APPENDIX A
NOTICE OF PREPARATION AND SCOPING MEETING MATERIALS

NOP

Notice of Preparation

303 East B Street, Ontario, California 91764 Phone: 909.395.2036 / Fax: 909.395.2420

TO: **Property Owners, Responsible Agencies, and Interested Parties**

FROM: **City of Ontario, Planning Department, 303 East "B" Street, Ontario, CA 91764**

SUBJECT: **Notice of Preparation of a Draft Environmental Impact Report**

NOTICE IS HEREBY GIVEN that the City of Ontario will be the Lead Agency and will prepare an environmental impact report for the project identified below. We need to know the views of your agency as to the scope and content of the environmental information which is germane to your agency's statutory responsibilities in connection with the proposed project. Your agency will need to use the EIR prepared by our agency when considering your permit or other approval for the project.

The Project description, location and the probable environmental effects are contained in this document and the attached materials. Electronic format of the document can also be obtained online using the following link:
https://www.ontarioca.gov/Planning/Reports/EnvironmentalImpact.

The proposed project ☒ is, ☐ is not, considered a project of statewide, regional, or area-wide significance. The proposed project ☒ will, ☐ will not, affect highways or other facilities under the jurisdiction of the State Department of Transportation. A scoping meeting ☒ will, ☐ will not, be held by the lead agency.

Scoping Meeting: If the project meets the criteria requiring the scoping meeting, or if the agency voluntarily elects to hold such a meeting, the date, time, and location of the scoping meeting are as follows:

Date and Time: February 22, 2023, at 5:30 p.m.
Location (this meeting will be held as a virtual meeting via Zoom): The Zoom meeting information, link and call-in phone numbers are available via the following link:
https://www.ontarioca.gov/Planning/Reports/EnvironmentalImpact

Review Period: The 30-day review period for this Notice of Preparation begins on February 10, 2023. Comments will be received until the close of business day on March 13, 2023, at 5:30 p.m. Please send your response to the contact person identified below. Please be sure to include the name of a contact person for your agency.

Contact Person: Edmelynne V. Hutter, City of Ontario Planning Department, 303 East B Street, Ontario, CA 91764, Phone: (909) 395-2429, Email: ehutter@ontarioca.gov

Project Title/File No.: Euclid Mixed Use Specific Plan Project / PSP22-001

Project Location: The Project is located on an 84.1-acre site along the western boundary of the City, within San Bernardino County. The Project site is bounded by Schaefer Avenue on the north, Sultana Avenue on the east, Edison Avenue on the south, and Euclid Avenue on the west (refer to ***Figure 1, Vicinity Map***).

The Project site consists of 19 parcels that include the Assessor Parcel Numbers (APNs) presented in ***Table 1: Assessor Parcel Numbers for the Project site***.

Table 1: Assessor Parcel Numbers for the Project Site

1053-071-04	1053-281-04
1053-071-03	1053-281-05
1053-071-02	1053-281-06
1053-071-01	1053-281-07
1053-211-01	1053-281-08
1053-211-02	1053-081-01
1053-211-05	1053-081-02
1053-281-01	1053-081-03
1053-281-02	1053-081-04
1053-281-03	

Regional access to the Project site is provided by State Route 83 (SR-83; Euclid Avenue), which connects to State Route 60 (SR-60) and Interstate 10 (I-10) to the north, I-15 approximately 5.5 miles to the east, and State Route 71 (SR-71) approximately 4.3 miles to the west. SR-71 connects the Project to Interstate 91 (I-91) in unincorporated Riverside County.

Project Setting: The Project site is currently occupied by rural uses, including a dairy farm and vacant land. Dairy farming and agriculture have been the primary uses of the Project site since before the 1930s. North across Schaefer Avenue is an existing dairy farm; south across Edison Avenue is an existing trucking facility; east across Sultana Avenue is vacant land and an existing trucking facility; west across Euclid Avenue, is the City of Chino with existing commercial and residential uses, and a truck/trailer storage.

Project Description: The Project to be addressed in the EIR includes a Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s), to allow development of up to 290,131 square feet of commercial retail/office uses, a total of 466 residential units, and 1,386,776 square feet of business park uses, on an 84.1-acre site, as described further below. The proposed Specific Plan would bring the Project site zoning into compliance with the adopted TOP 2050 Policy Plan (General Plan). The Project site is anticipated to be developed in two phases within five planning areas (PAs), with only Phase I proposed at a project-level entitlement. Phase I would include a future Development Plan for PAs 1, 2, and 3A, proposing the construction of business park buildings with ancillary office space, approximating 1,386,776 square feet of business park uses and designated open space. Phase I is expected to start construction in 2024 with an anticipated opening year in 2032. Phase II of the Project will be evaluated at a programmatic level in the EIR, for the potential future development of PA 3B (no specific development proposals have been identified for the Phase II area). Refer to ***Figure 2, Conceptual Site Plan,*** for further detail. ***Figure 2, Conceptual Site Plan*** may be modified and reflects current market trends, site conditions, and planned infrastructure, and does not exceed the maximum building areas and range of uses allowed by the Specific Plan, as presented in ***Table 2: Maximum Specific Plan Build-Out Summary***, below.

The land use types proposed by the Specific Plan and evaluated in the EIR are summarized below in ***Table 2: Maximum Specific Plan Build-Out Summary. Table 2*** provides the maximum development intensity (allowable gross building area and maximum residential development for each PA based on the allowable floor area ratio or residential density respectively. Development standards, such as setback requirements, parking, open space, minimum landscaping, infrastructure, and site design, may reduce the maximum gross square footage or density.

Table 2: Maximum Specific Plan Build-Out Summary

Planning Area	Land Use Designation	Site Acreage	Maximum Building Square Footage
Phase I			
1	Business Park	24.60	642,946
2	Business Park	28.46	743,831
3A	Mixed-Use (Office; Retail)	5.71	290,110
4	Open Space/Non-Recreational	6.28	-
	Subtotal	***65.05***	***1,676,886***
Phase II			
3B	Mixed-Use (Residential)	13.32	-
5	Open Space/Non-Recreational	5.73	-
	Subtotal	***19.05***	**-**
TOTAL		**84.1**	**1,676,886**

Notes:
1. The numbers were rounded to present a conservative estimate.
2. The EIR will evaluate the total maximum allowable development in the Specific Plan. The Floor Area Ratio (FAR) may be increased to the TOP max levels of 0.60 for BP respectively with appropriate CEQA analysis.
3. Phase II uses are being evaluated at programmatic level only; no specific development applications have been submitted; no specific development dates are known.

The EIR will evaluate the total maximum allowable development in the Specific Plan, which is 1,676,886 square feet of business park and mixed-use land uses and associated onsite and offsite infrastructure improvements. Additional on-site improvements would include landscaping, utility infrastructure, and internal roadways. Off-site improvements may include various street improvements, storm drain infrastructure, sewer infrastructure, domestic water infrastructure, recycled water infrastructure, and underground electric utility infrastructure.

Euclid Mixed Use Specific Plan (SP).
The SP proposes a comprehensive land use plan, circulation plan, streetscape plan, infrastructure service plan, grading plan, maintenance plan, phasing plan, design guidelines, development regulations, and implementation measures to guide the development of the 84.1-acre Project site into a master-planned business park and mixed-use community. The SP consists of three land use designations divided into five Planning Areas (PAs) which would accommodate the development of a mix of land uses including commercial retail/office uses, high density residential uses and open space areas, low-intensity office, and other similar uses. Refer to ***Figure 3, Proposed Specific Plan Land Use Plan.*** The following summarizes the zoning and land use types contained with the Specific Plan:

- Business Park (BP) Zoning District: The BP zoning district allows for employee-intensive office uses including corporate offices, technology centers, research and development, "clean" industry, light manufacturing, and supporting retail within a business park setting.

- Mixed-Use (MU) Zoning District: The MU zoning district accommodates an intense mixture of uses that, when concentrated, create focal points for community activity and identity and facilitate walking, biking, and the use of transit. The MU zoning district accommodates a horizontal and/or vertical mixture of retail, service, office, restaurant, entertainment, cultural, and residential uses.

- Open Space/Non-Recreational (OS-NR) Zoning District: The OS-NR zoning district is defined as open space that includes utility easements, and drainage channels. It can also be utilized for as trails, greenways, joint-use recreational amenities, landscaped parkways/medians, parking lots, and landscape nurseries for trees and plants.

Development Agreement. Future Development Agreement(s) would be executed between the Project Applicant and the City strictly in relation to the relevant Development Plan and associated Parcel Map for the Project site. California Government Code §§65864-65869.5 authorizes the use of development agreements between any City, County, or City and County, with any person having a legal or equitable interest in real property for the development of the property.

Development Plan. Future Development Plan(s) will be submitted. The Development Plan site plan will consist of several concrete tilt-up business park buildings with ancillary office space totaling up to 1,386,776 square feet, which is less development than the maximum allowable under the SP.

Tentative Parcel Map(s). Future Tentative Parcel Map(s) (TPM) would subdivide the approximately 84.1-acre Development Plan area (Phase I, comprised of PAs 1, 2, and 3A) to establish a subdivision of Business Park lots.

Access. Access drives would be provided from all four fronting streets, with a total of 7 full access points proposed. Internal drive aisles would provide connectivity throughout the site.

Roadway Improvements. The Project includes frontage improvements to the buildout condition identified in the TOP 2050 Circulation Element and streetscape improvements will be in accordance with the City's Master Plan of Streets. Full buildout is identified below:

- Euclid Avenue is an expressway under Caltrans' jurisdiction that is designated as an eight lane Other Principal Arterial in TOP. The centerline of this street forms the boundary between the City to the east and the City of Chino to the west. Euclid Avenue is designed with a 200-foot wide right-of- way, a 66-foot-wide center median, and 52 feet of pavement including curbs and gutter. The existing half-width street right-of-way is 100 feet; therefore, no dedication is required. The Euclid Avenue streetscape design for the east side of the street adjacent to the Project site specifies a 15-foot-wide parkway including a 5-foot-wide sidewalk and an 8-foot-wide on-site multipurpose trail within a 35-foot-wide landscape buffer, creating a 50-foot-wide neighborhood edge as specified in the Ontario Ranch Colony Streetscape Master Plan.

- Sultana Avenue is designated as a Collector Street with a 66-foot-wide right-of-way and 48 feet of pavement including curb and gutter. The Sultana Avenue streetscape specifies a 9-foot-wide parkway including a 4-foot landscape and a 5-foot-wide sidewalk. The west side of the street adjacent to the Project site provides a 10-foot-wide landscape buffer setback. Sultana Avenue is not yet developed adjacent to the Project site. However, the right-of-way exists, and no dedication is required.

- Edison Avenue will require a 160-foot-wide right-of-way with a 26-foot landscaped median and a 52-foot paved section on each side. The Edison Avenue streetscape design for the north side of the street adjacent to the Project site specifies a 15-foot-wide parkway including a 10-foot-wide curb-adjacent landscaped area and a 5-foot-wide sidewalk. The south side also provides an 8-foot-wide on-site multipurpose trail within a 23-foot-wide landscape buffer setback. Together, the parkway and landscape buffer setback create a 38-foot-wide neighborhood edge, per in the City's Master Plan of Streets.

- Schaefer Avenue will require a 108-foot-wide right-of-way and 84 feet of pavement including curb and gutter. The Schaefer Avenue streetscape design for the south side of the street adjacent to the Project site includes a Class II on-street bike lane at the edge of the street, a 7-foot-wide curb-adjacent landscaped area, and a 5-foot-wide sidewalk. An 8-foot-wide multipurpose trail is located within a 23-foot-wide landscape buffer setback. Together, these improvements establish a 35-foot-wide neighborhood edge, per in the City's Master Plan of Streets.

Utilities. As part of the Euclid Mixed Use Specific Plan, the following infrastructure improvements will be required, and the future development projects will connect to these facilities:

- **Domestic Water Plan** – The City's ultimate domestic water system will consist of five pressure zones. Most of Ontario Ranch (including the Euclid Mixed Use Specific Plan area) is in the 925 Pressure Zone (PZ). The developer of the Euclid Mixed Use Specific Plan will be responsible to provide the required water lines to connect to the existing improvements constructed by the Ontario Ranch Business Park development to the south of the site, as discussed below.

  925 PZ Phase 2 Potable Water System facilities that are required to serve the Project but that will be constructed by others include installing a 42-inch potable water main in Grove Avenue connecting from the 30-inch to the 42-inch potable water main in Grove Avenue at Chino Avenue; installing a 42-inch potable main in Chino Avenue connecting from the 42-inch potable water main in Campus Avenue and extending to Francis Street; and, installing a 42-inch potable water main in Bon View Avenue connecting from the 42-inch potable water main in Francis Street and extending to the Bon View Avenue Reservoir site and to the Reservoir; and, installing a 9 million gallon reservoir on the Bon View Reservoir site; and, installing two 2,500 gallon per minute wells with any treatment necessary to meet water quality standards and the 16-inch to 42-inch well collection mains from the wells to the reservoirs. The Project will be required to participate in the future Phase 2 Water System Improvements as detailed in the development agreement with the City.

  In addition to extending the 925 PZ Phase 2 West Backbone, the Project site requires a connection between the 925 PZ Phase 2 West Backbone and the 1010 PZ. This will supply a second source of potable water to the Project site. The connection to the 1010 PZ will require extending the Phase 2 West Backbone at Eucalyptus Avenue and Grove Avenue by installing a 30-inch potable water main north on Grove Avenue to Chino Avenue. The connection to the 1010 Pressure Zone will require installing an 18-inch potable water main in Chino Avenue easterly to the existing 18-inch potable water main located on the west side of the Cucamonga Creek channel and installing a Pressure Reducing Station between the 1010 PZ and 925 PZ near the intersection of Grove Avenue and Chino Avenue. The balance of Phase 2 Water System will be completed as required by future development of Ontario Ranch. The Project will be required to participate in the future

Phase 2 Water System improvements, as detailed in the development agreement with the City.

The Euclid Mixed-Use Specific Plan is responsible to provide domestic water service to serve future development and will construct a 16-inch line in Euclid Avenue and a 12-inch line along the remaining perimeter of the Project site in Schaefer, Sultana, and Edison Avenues. The Project site will extend the 12-inch line in Schaefer Avenue to connect to the future line at Grove Avenue and the 16-inch line in Euclid Avenue south to connect to the future line in Eucalyptus Avenue.

- **Recycled Water Plan** – The Project is responsible to provide recycled water service to serve future development and will construct a 12-inch line along the perimeter of the Project site. The Project will extend the 12-inch line in Euclid Avenue south to connect to the existing line in Eucalyptus Avenue. The 12-inch line in Sultana Avenue may be reduced to an 8-inch line if the development to the east is required to provide individual meters to serve future development.

- **Sewer Plan** – The Project is responsible to provide sewer service to serve future development and will construct a 15-inch line approximately 1,320 feet along the Project frontage in Euclid Avenue and extend an 18-inch main line along the Euclid Avenue to the south to connect to the Kimball Interceptor Sewer. The Project will construct an 8-inch line along approximately 1,320 feet of the eastern boundary of the Project site to Edison Avenue and extend the 12-inch line in Sultana Avenue to connect to the existing line in Merrill Avenue. A sewer line may be extended along a portion of Edison Avenue, if necessary to serve the adjacent parcels to the north.

- **Storm Drain Plan** – The Project is responsible to provide storm drain to serve future development and will construct a 90-inch line in Euclid Avenue along the western perimeter of the Project site, a 48-inch to 90-inch line in Schaefer Avenue along the northern perimeter of the Project site and a 78-inch to 96- inch in Edison Avenue along the southern perimeter of the Project site. The Project will construct a 102-inch trunk line in Euclid Avenue south to connect to the existing 108-inch line at Euclid Avenue and Eucalyptus Avenue. Catch basins located throughout the Project site will collect runoff. On-site storm drain systems serving the Project will connect to the master planned system in Euclid Avenue to serve the Project development.

The Project proposes new onsite and offsite public sewer, potable water, and storm drain infrastructure, and would receive Southern California Edison electrical service. Onsite improvements would include storm drains, water quality systems, a sewer main and sewer lines, water lines, and dry utility connections.

Required Entitlements and Approvals

The City is serving as the CEQA Lead Agency and will consider the EIR for certification and the Project for approval. Additional permits and/or approvals from the following agencies are anticipated to be necessary for implementation of the Project:

Table 4: Anticipated Permits and Approvals Required

Lead Agency	Action
City of Ontario City Council	• Certification of the Euclid Mixed Use Specific Plan EIR • Adoption of the Mitigation Monitoring and Reporting Program • Adoption of the Euclid Mixed Use Specific Plan
Responsible Agencies	**Action**
San Bernardino County	• Well removal permit from County Health Department (if required)
City of Chino	• Street and drainage improvements
Caltrans	• Encroachment permit (if required)
Santa Ana Regional Water Quality Control Board	• Issuance of a National Pollutant Discharge Elimination system (NPDES) Permit
Inland Empire Utilities Agency	• Recycled water and connection to trunk sewer line
Federal Aviation Administration	• Obstruction evaluation
State Water Resources Control Board	• Stormwater Pollution prevention Plan (SWPPP), and Water Quality Monitoring Program (WQMP)
South Coast Air Quality Management District	• Demolition Notification

Environmental Issues to be Evaluated in the EIR

The following issues are anticipated to be addressed in the EIR:

- Aesthetics
- Agriculture/Forestry Resources
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards/Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Population and Housing
- Public Services
- Transportation
- Tribal Cultural Resources
- Utilities and Service Systems
- Wildfire

The EIR will address the short- and long-term effects of the Project on the environment, including the impacts of any off-site improvements. It will also evaluate the potential for the Project to cause direct and indirect growth-inducing impacts, as well as cumulative impacts. Alternatives to the Project will be evaluated that may reduce impacts that are determined to be significant in the EIR. Mitigation will be proposed for those impacts that are determined to be significant. A mitigation monitoring program will also be developed for any proposed mitigation as required by §15097 of the CEQA Guidelines.

Cortese List Notice: Pursuant to Public Resources Code §21092.6(a), the Project site is not included on a list of hazardous materials sites compiled pursuant to Government Code §65962.5 (California Department of Toxic Substances Control list of various hazardous sites).[1]

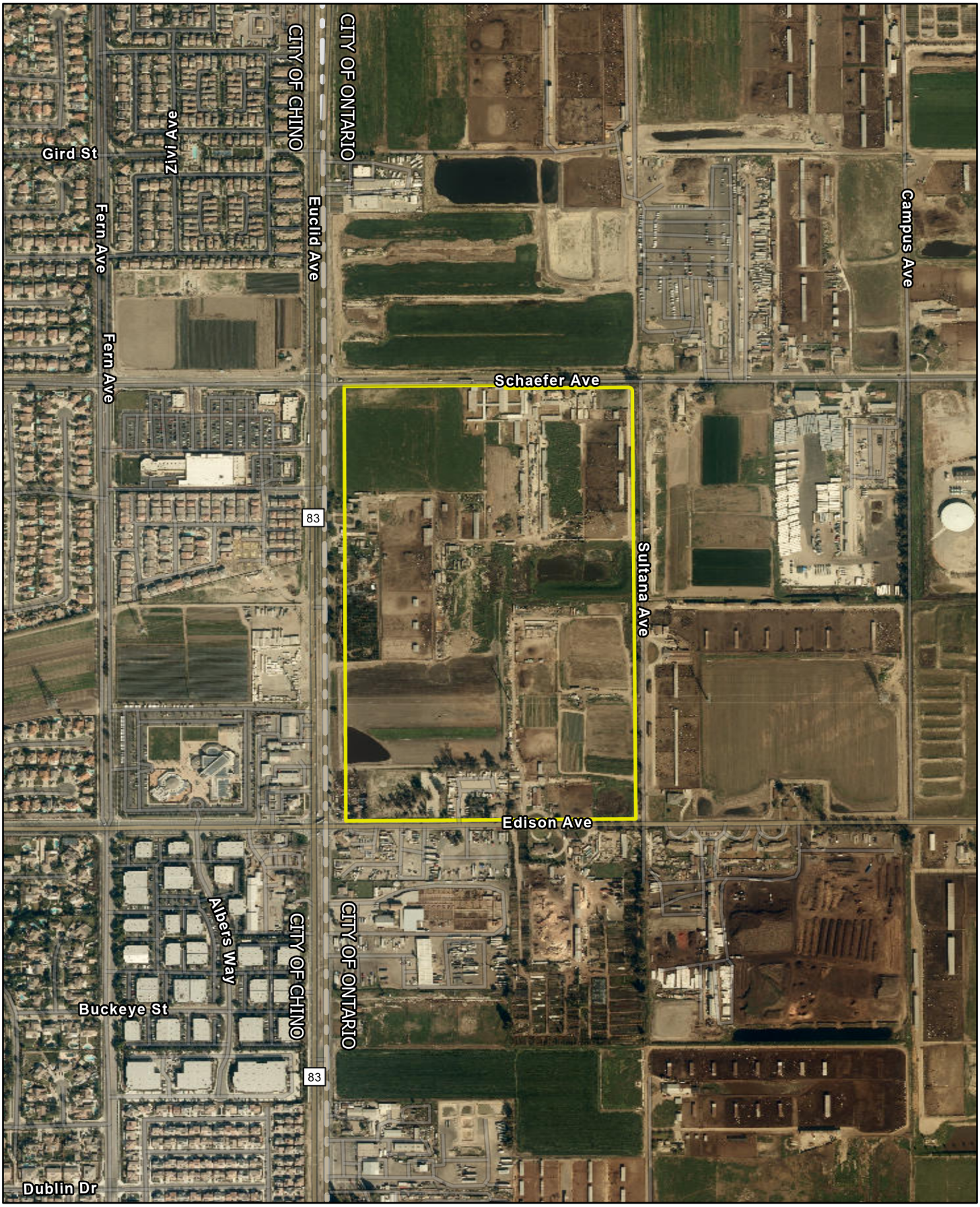
[1] Department of Toxic Substances Control. EnviroStor. (2021). Retrieved from: https://www.envirostor.dtsc.ca.gov/public/map/?myaddress=ontario.

Project Applicant: RCCD Inc., ATTN: Jason Lee, 8101 E. Kaiser Blvd. Suite 140, Anaheim Hills, CA 92808

Consulting firm retained to prepare Draft EIR: Kimley-Horn & Associates Inc., ATTN: Kevin Thomas, 3801 University Avenue Suite 300, Riverside, CA 92501

Signature: Edmelynne V. Hutter	**Date:** 2/7/2023
Name: Edmelynne V. Hutter	**Title:** Senior Planner

Reference: California Code of Regulations, Title 14 (CEQA Guidelines) Sections 15082(a), 15103, and 15375.



PROJECT SITE

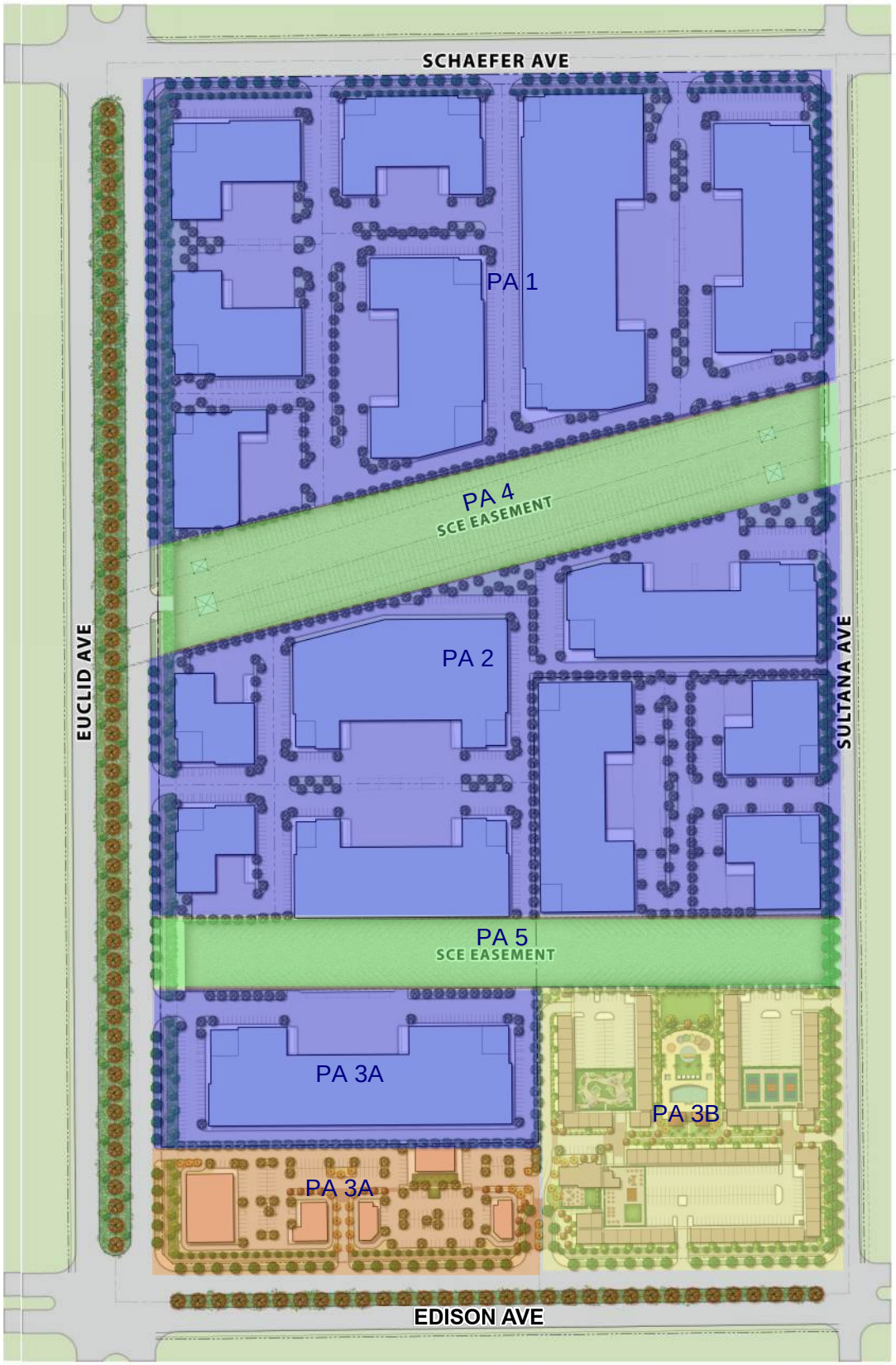
CITY BOUNDARY

Source: ESRI, 2022

FIGURE 1: Vicinity Map
Euclid Mixed Use Specific Plan

Not to scale

Kimley»Horn



EUCLID MIXED USE SUMMARY

PA	LAND USE
1	BUSINESS PARK
2A	BUSINESS PARK
2B	BUSINESS PARK
3A	BUSINESS PARK
3A	COMMERCIAL
3B	APARTMENTS
4	SCE EASEMENT
5	SCE EASEMENT

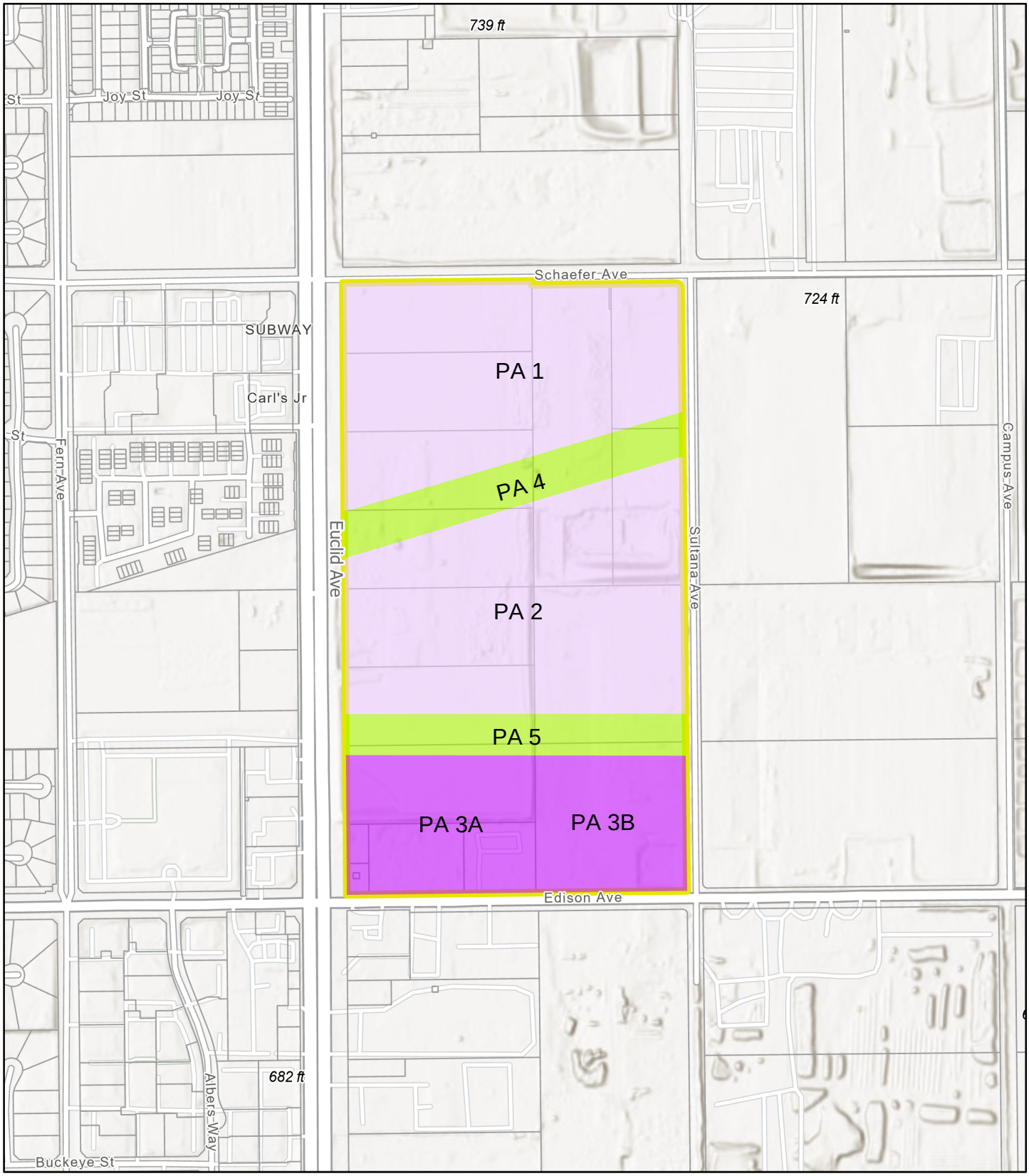
Note: Conceptual site plan may be modified and reflects current market trends, site conditions, and planned infrastructure and does not exceed the maximum building area and range of uses allowed by the Specific Plan. Future Development Areas - PA 2B, 3A, and 3B, land use concept is illustrative only.

Source: RGA Office of Architectural Design, 2022

FIGURE 2: Conceptual Site Plan
Euclid Mixed Use Specific Plan

Not to scale

Kimley»Horn



Legend:

- Project Site
- MU Mixed Use
- BP Business Park
- OS-NR Open Space - Non-Rec

Source: Placeworks, 2022; ESRI, 2022

FIGURE 3: Proposed Specific Plan Land Use Plan
Euclid Mixed Use Specific Plan

Not to scale

Kimley»Horn

NOP MAILING LIST

State Clearinghouse
Office of Planning and Research
1400 Tenth Street, Room 121
Sacramento, CA 95814
ONT-05

City of Chino
Community Development
13220 Central Avenue
Chino, CA 91710
ONT-05

San Bernardino Ass'n of Governments
Planning Department
1170 West Third Street, 2nd Floor
San Bernardino, CA 92410
ONT-05

Army Corps of Engineers
Los Angeles District
911 Wilshire Boulevard
Los Angeles, CA 90017
ONT-05

City of Ontario
City Clerk
303 East B Street
Ontario, CA 91764
ONT-05

South Coast Air Quality Management
Ditrict (SCAQMD)
21865 Copley Drive
Diamond Bar, CA 91765
ONT-05

County of San Bernardino
Land Use Services Dept, Adv. Planning Div.
385 North Arrowhead Avenue
San Bernardino, CA 92415
ONT-05

U.S. Fish & Wildlife Service
Ecological Serv-Carlsbad Office
6010 Hidden Valley Road
Carlsbad, CA 92011
ONT-05

Inland Empire Utilities Agency
Planning Department
6075 Kimball Avenue
Chino, CA 91710
ONT-05

Chaffey Community College District
Business Services
5885 Haven Avenue
Rancho Cucamonga, CA 91737
ONT-05

City of Ontario
Planning Department
303 East B Street
Ontario, CA 91764
ONT-05

City of Eastvale
Community Development
12363 Limonite, Suite 910
Eastvale, CA 91752
ONT-05

San Bernardino County Public Works
Environmental Management Division
825 East Third Street
San Bernardino, CA 92415
ONT-05

Sierra Club
San Gorgonio Chapter
4079 Mission Inn Avenue
Riverside, CA 92501
ONT-05

City of Ontario
Ovitt Family Community Library
215 East C Street
Ontario, CA 91764
ONT-05

California Department of Fish & Game
3602 Inland Empire Boulevard, Suite C-220
Ontario, CA 91764
ONT-05

Southern California Ass'n of Govts (SCAG)
CEQA Review
818 West Seventh Street, 12th Floor
Los Angeles, CA 90017
ONT-05

Endangered Habitats League
8424-A Santa Monica Boulevard
Los Angeles, CA 90069
ONT-05

Verizon - Engineering
1400 East Phillips Boulevard
Building A
Pomona, CA 91766
ONT-05

Metropolitan Water District
700 North Alameda Street
Los Angeles, CA 90012
ONT-05

City of Fontana
Planning Department
8353 Sierra Avenue
Fontana, CA 92335
ONT-05

County of San Bernardino
Clerk of the Board
385 North Arrowhead, 2nd Floor
San Bernardino, CA 92415
ONT-05

California Department of Fish & Game
4665 Lampson Avenue, Suite J
Los Alamitos, CA 90720
ONT-05

Riverside County
Planning Department
4080 Lemon Street, 9th Floor
Riverside, CA 92502
ONT-05

CALTRAN District # 8
464 West Fourth Street
6th Floor, MS 726
San Bernardino, CA 92401
ONT-05

Santa Ana Regional Water
Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501
ONT-05

San Bernardino County
Flood Control District
825 East Third Street, Room 201
San Bernardino, CA 92415
ONT-05

Jurupa Unified School District
Facilities Planning Office
4850 Pedley Road
Riverside, CA 92509
ONT-05

Southern California Edison
P.O. Box 800
Rosemead, CA 91770
ONT-05

San Bernardino County Waste
Management Department
222 West Hospitality Lane, 2nd Floor
San Bernardino, CA 92415
ONT-05

Southern California Edison
Attn: Christian Nelson
1315 East Francis Street
Ontario, CA 91761
ONT-05

Southern California Edison
Right-of-Way
P.O. Box 410
Long Beach, CA 90801
ONT-05

Southern California Gas Company
Technical Services Planning Department
1981 W. Lugonia Avenue
Redlands, CA 92373
ONT-05

Mountain View School District
Facilities Planning Office
2585 South Archibald Avenue
Ontario, CA 91761
ONT-05

Chaffey Joint High School District
Facilities Planning Office
211 West 5th Street
Ontario, CA 91762
ONT-05

Time Warner
Lewis McDonald
1500 Auto Center Drive
Ontario, CA 91761
ONT-05

OMNITRANS
1700 West Fifth Street
San Bernardino, CA 92411
ONT-05

West Valley Materials
Recovery Facility
13373 Napa Street
Fontana, CA 92335
ONT-05

Jurupa Community Services District
11201 Harrell Street
Mira Loma, CA 91752
ONT-05

Native American Heritage Commission
915 Capitol Mall, Room 364
Sacramento, CA 95814
ONT-05

San Bernardino County
Environmental Analysis Section
385 North Arrowhead
San Bernardino, CA 92415
ONT-05

San Bernardino County
Transportation Authority
1170 West Third Street, 2nd Floor
San Bernardino, CA 92410
ONT-05

Ontario International Airport
Airport Manager
1923 E. Avion Street
Ontario, CA 91761
ONT-05

Inland Empire West Resource
Conservation District
2816 East 4th Street
Ontario, CA 91764
ONT-05

State Water Resources
Control Board District 8
3737 Main Street, Suite 500
Riverside, CA 92501-3339
ONT-05

SCE - Third Party Environmental
Review - Karen Cadavona
2244 Walnut Grove Ave.
Rosemead, CA 91770
ONT-05

SCE - Local Public Affairs - Jennifer Shaw
7951 Redwood Ave.
Fontana, CA 92336
ONT-05

City of Rancho Cucamonga Planning Dept
10500 Civic Center Drive
Rancho Cucamonga, CA 91729
ONT-05

City of Upland Planning Department
460 North Euclid Avenue
Upland, CA 91786
ONT-05

Airport Land Use Commision Riverside
County Administrative Center
4080 Lemon Street 14th Floor
Riverside, CA 92501
ONT-05

City of Montclair Planning Department
5111 Benito Street
Montclair, CA 91763
ONT-05

George Borba & Sons Dairy
7955 Eucalyptus Avenue
Onatrio, CA 91762
ONT-05

Stacey Oborne
Lozeau/Drury LLP
1939 Harrison Street, Suite 150
Oakland, CA 94612
ONT-05

Komalpreet Toor
Lozeau/Drury LLP
1939 Harrison Street, Suite 150
Oakland, CA 94612
ONT-05

Jacob Mathew
Caltrans D-8
Office of Encroachment Permits
464 West 4th Street, Basement, MS 619
San Bernardino, CA 92401-1400

Chino Airport
7000 Merrill Ave,
Chino, CA 91710

Jason Lee
Distinguised Homes,
8101 E Kaiser Blvd
Anaheim, CA 92808

TRIBAL CONTACT LIST

AB 52

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393
Covina, CA 91723

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693
San Gabriel, CA 91778

Director, Cultural Resources Management Department
Care of Stephanie Guerrero, HR Department
San Manuel Band of Mission Indians
26569 Community Center Drive
Highland, CA 92346

Soboba Band of Luiseno Indians
Joseph Ontiveros, Cultural Resources Director
PO Box 487
San Jacinto CA 92581

Soboba Band of Luiseno Indians
Jessica Valdez, Cultural Resources Department
PO Box 487
San Jacinto CA 92581

SB 18

Gabrieleno Band of Mission Indians - Kizh Nation
Andrew Salas, Chairperson
P.O. Box 393
Covina, CA 91723

Gabrieleno/Tongva San Gabriel Band of Mission Indians
Anthony Morales, Chairperson
P.O. Box 693
San Gabriel, CA 91778

Gabrielino /Tongva Nation
Sandonne Goad, Chairperson
106 1/2 Judge John Aiso St., #231
Los Angeles, CA 90012

Gabrielino Tongva Indians of California Tribal Council
Christina Conley, Tribal Consultant and Administrator
P.O. Box 941078
Simi Valley, CA 93094

Gabrielino Tongva Indians of California Tribal Council
Robert Dorame, Chairperson
P.O. Box 490
Bellflower, CA 90707

Gabrielino-Tongva Tribe
Charles Alvarez
23454 Vanowen Street
West Hills, CA 91307

Quechan Tribe of the Fort Yuma Reservation
Jill McCormick, Historic Preservation Officer
P.O. Box 1899
Yuma, AZ 85366

Santa Rosa Band of Cahuilla Indians
Lovina Redner, Tribal Chair
P.O. Box 391820
Anza, CA 92539

Soboba Band of Luiseno Indians
Isaiah Vivanco, Chairperson
P.O. Box 487
San Jacinto, CA 92581

NEWSPAPER NOTICE

INLAND VALLEY
DAILY BULLETIN
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Inland Valley Daily Bulletin - SB
3200 Guasti Rd. Suite 100
Ontario, California 91761
(909) 987-6397

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CITY OF ONTARIO- COMMUNITY
DEVELOPMENT AGENCY
303 E. B Street
Ontario, California 91764

PROOF OF PUBLICATION
(2015.5 C.C.P.)

STATE OF CALIFORNIA
County of Los Angeles

I am a citizen of the United States and a resident of the County aforesaid; I am over the age of eighteen years, and not party to or interested in the above-entitled matter. I am the principal clerk of the printer of Inland Valley Daily Bulletin - SB, a newspaper of general circulation, printed and published in the City of Ontario*, County of Los Angeles, and which newspaper has been adjudged a newspaper of general circulation by the Superior Court of County of Los Angeles, State of California, under the date of June 15, 1945, Decree No. Pomo C-606. The notice, of which the annexed is a printed copy (set in type not smaller than nonpareil), has been published in each regular and entire issue of said newspaper and not in any supplement thereof on the following dates, to wit:

02/10/2023

I certify (or declare) under the penalty of perjury that the foregoing is true and correct.

Dated at Ontario, California

On this 10th day of February, 2023.

Eva Almeida
Signature
*Inland Valley Daily Bulletin - SB circulation includes the following cities: [UNKNOWN LIST]

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT AND SCOPING HEARING TO BE PREPARED BY THE CITY OF ONTARIO FOR THE EUCLID MIXED USE SPECIFIC PLAN (PSP22-001)

Notice is hereby given that the City of Ontario (Latitude 34°03'N / Longitude 117°37'W) will be the Lead Agency and will prepare an Environmental Impact Report (EIR) for the project identified below. Interested public agencies are invited to comment on the scope of the EIR at the following locations or by e-mailing Edmelynne V. Hutter at ehutter@ontarioca.gov :

City Hall, Planning Department
303 East "B" Street
Ontario, CA 91764

Ontario Main Library
215 East "C" Street
Ontario, CA 91764

Project Location: The Project is located on an 84.1-acre site along the western boundary of the City, within San Bernardino County. The Project site is bounded by Schaefer Avenue on the north, Sultana Avenue on the east, Edison Avenue on the south, and Euclid Avenue on the west in Ontario, California, 91764. The project consists of 19 parcels: APNs 1053-071-01, 1053-071-02, 1053-071-03, 1053-071-04, 1053-211-01, 1053-211-01, 1053-211-02, 1053-211-05, 1053-281-01, 1053-281-02, 1053-281-0 3, 1053-281-04, 1053-281-05, 1053-281-06, 1053-281-07, 1053-281-08, 1053-081-01, 1053-081-02, 1053-081-03, 1053-081-04.

Project Description: The Project to be addressed in the EIR includes a Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s), to allow development of up to 290,131 square feet of commercial retail/office uses, a total of 466 residential units, and 1,386,776 square feet of business park uses, on an 84.1-acre site. The proposed Specific Plan would bring the Project site zoning into compliance with the adopted TOP 2050 Policy Plan (General Plan). The Project site is anticipated to be developed in two phases within five planning areas (PAs), with only Phase I proposed at a project-level entitlement. Phase I would include a future Development Plan for PAs 1, 2, and 3A, proposing the construction of business park buildings with ancillary office space, approximating 1,386,776 square feet of business park uses and designated open space. The Specific Plan will provide zoning regulations for development of the project. It will establish permitted land use, development standards, infrastructure requirements, and implementation requirements for development consistency.

Environmental Issues: Based on the Initial Study prepared for the proposed project, the City anticipates several potential impacts that will need to be addressed in the EIR. Potential impacts associated with environmental resource areas that will be analyzed in the EIR include the following:

- Aesthetics
- Agricultural/Forestry Resources;
- Air Quality;
- Biological Resources;
- Cultural Resources;
- Energy;
- Geology and Soils;
- Greenhouse Gas Emissions;
- Hazards/Hazardous Materials;
- Hydrology/Water Quality;
- Land Use and Planning;
- Noise;
- Population/Housing;
- Public Services
- Transportation;
- Tribal Cultural Resources; and
- Utilities/Service Systems.
- Wildfire

The EIR will address the short and long-term effects of the project on the environment. It will also evaluate the potential for the project to cause direct and indirect growth-inducing impacts, as well as cumulative impacts. Alternatives to the proposed project will be evaluated that may reduce impacts that are determined to be significant in the EIR. Mitigation measures may be proposed for those impacts that are determined to be significant. A mitigation monitoring program will also be developed as required by Section 15097 of the CEQA Guidelines.

The environmental determination in this Notice of Preparation is subject to a 30-day public review period per Public Resources Code Section 21080.4 and CEQA Guidelines Section 15082. Public agencies, interested organizations, and individuals have the opportunity to comment on the proposed project and identify the environmental issues, which have the potential to be affected by the project, and should therefore be addressed further in the EIR.

A scoping meeting will be held by the City of Ontario on **Wednesday, February 22, 2023 at 5:30 PM** via Zoom. The Zoom meeting information, link, and call-in phone numbers are available via the following link:

https://www.ontarioca.gov/Planning/Reports/EnvironmentalImpact

Please send your comments, including contact information, to Edmelynne V. Hutter, Senior Planner, Ontario Planning Department, 303 East "B" Street, Ontario, CA 91764, (909)395-2036 or ehutter@ontarioca.gov no later than **Monday, March 13, 2023** .

Rudy Zeledon
Planning Director

Publish Date: February 10, 2023
Inland Valley Daily Bulletin - SB
Published: 2/10/23

PUBLIC SCOPING MEETING PRESENTATION

WELCOME

Euclid Mixed Use Specific Plan

Environmental Impact Report

February 22, 2023

Scoping Meeting

CITY OF ONTARIO

Euclid Mixed Use Specific Plan Project (PSP22-001)

NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT

A Notice of Preparation (NOP) has been prepared for the Euclid Mixed use Specific Plan Project (File No. PSP22-001) located within the 8,200-acre Ontario Ranch area, bounded by Schaefer Avenue to the north, Edison Avenue to the south, Sultana Avenue to the east, and Euclid Avenue to the west, in the City of Ontario, County of San Bernardino.

The 30-day Public Review Period extends from **February 10, 2023 to March 13, 2023.**

Comments will be received until **5:30 p.m. on March 13, 2023**. Any person wishing to comment on this project must submit comments in writing to the contact listed on the NOP.

Details for a scoping meeting related to the proposed project are provided below:

Meeting Date and Time: February 22, 2023, at 5:30 p.m.
Meeting Location (this meeting will be held as a virtual meeting via Zoom): The Zoom meeting may be accessed online using the link below.

Zoom Meeting Link

EMUSP NOP Scoping Meeting

Webinar ID: 813 9633 6870.

Alternatively, the Zoom meeting may be attended via telephone: US: +1 669 444 9171 or +1 669 900 9128 or +1 346 248 7799 or +1 719 359 4580 or +1 253 205 0468 or +1 253 215 8782 or +1 646 931 3860 or +1 689 278 1000 or +1 301 715 8592 or +1 305 224 1968 or +1 309 205 3325 or +1 312 626 6799 or +1 360 209 5623 or +1 386 347 5053 or +1 507 473 4847 or +1 564 217 2000 or +1 646 558 8656

Please click on the link below to view the NOP.

DOWNLOADABLE FILES

Notice of Preparation — Download File

ontarioca.gov/Planning

Please click the link on the City Planning website to join the Euclid Mixed Use Specific Plan NOP Scoping Meeting

Purpose of Scoping Meetings

- Early public consultation
- Learn about environmental concerns regarding the project from potentially affected agencies and individuals
- Opportunity to identify and address issues that might otherwise arise late in the process
- Help focus the EIR's content and identify alternatives

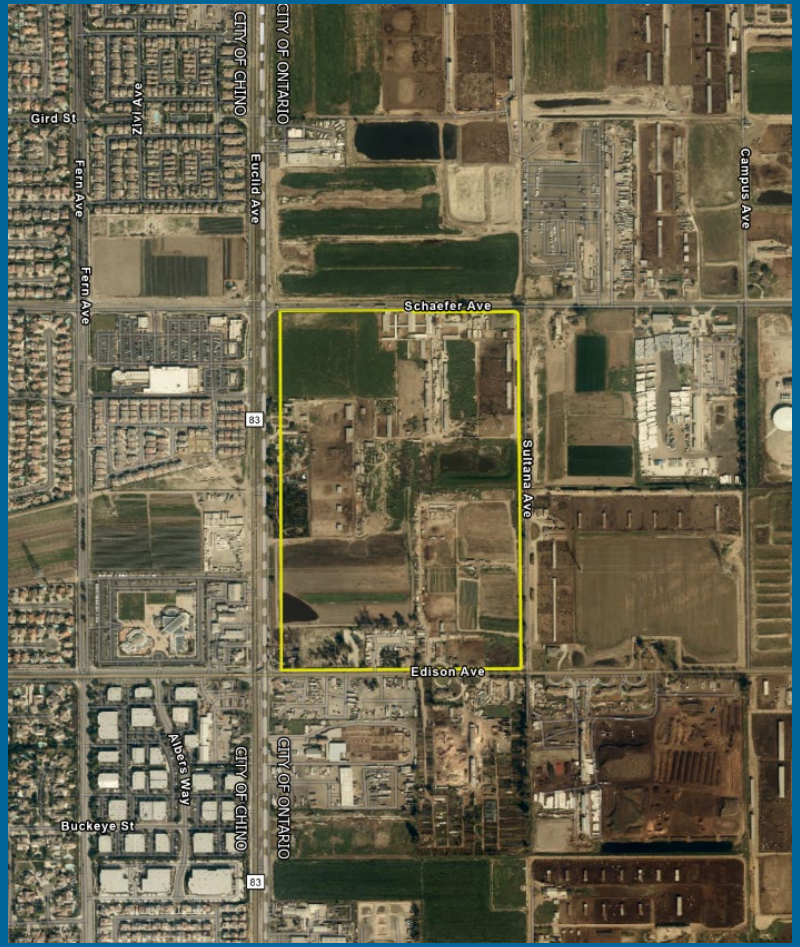
CEQA Process

- The California Environmental Quality Act (CEQA) is required for discretionary approvals.
- Purpose is to inform decision makers and the public of potential effects of project approval.
- Expanded NOP provides consultation and focuses subsequent efforts.

Roles and Responsibilities

Developer	Design and submit development proposal.
City Staff	Review and evaluate Developer's project Manage EIR Consultant. Make recommendations to Decision Makers.
Environmental Consultant	Evaluate impacts of project approval on the existing environment.
Decision Makers	Planning Commission and City Council Evaluate and approve or disapprove project.

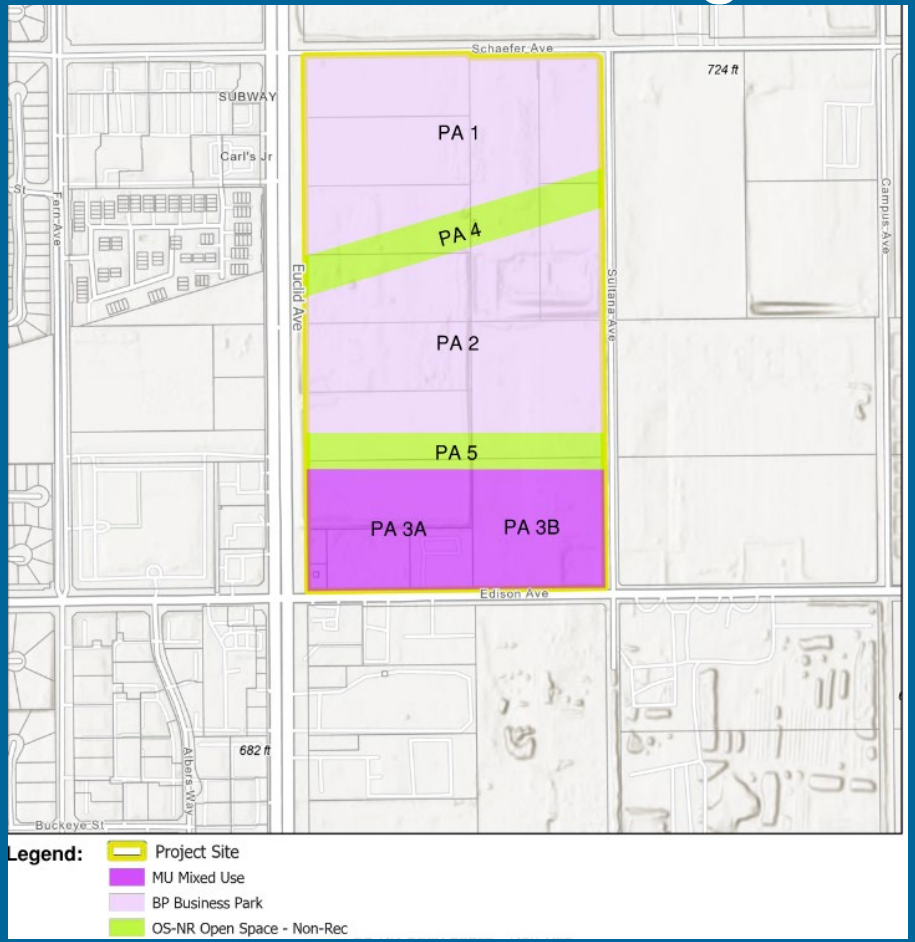
Project Location



The Project

- Establish the Euclid Mixed Use Specific Plan
  - Bounded by Schaefer Avenue on the north, Sultana Avenue on the east, Edison Avenue on the south, and Euclid Avenue on the west.
  - Proposes a mixed use and business park development on approximately 84.1 acres.
  - Proposes development and operation of up to:
    - 290,131 square feet of commercial retail/office uses
    - a total of 466 residential units
    - 1,386,776 square feet of business park uses
  - The Specific Plan will establish a Land use plan, development standards, circulation plan, infrastructure plans and a phasing plan.

Land Use Plan – Planning Areas



Proposed Development by Planning Area

Planning Area	Land Use Designation	Site Acreage	Maximum Building Square Footage
Phase I			
1	Business Park	24.60	642,946
2	Business Park	28.46	743,831
3A	Mixed-Use (Office; Retail)	5.71	290,110
4	Open Space/Non-Recreational	6.28	-
	Subtotal	***65.05***	***1,676,886***
Phase II			
3B	Mixed-Use (Residential)	13.32	-
5	Open Space/Non-Recreational	5.73	-
	Subtotal	***19.05***	**-**
TOTAL		**84.1**	**1,676,886**

The Project

- Discretionary Approvals Necessary:
  - Certification of the Euclid Mixed Use Specific Plan EIR
  - Adoption of the Euclid Mixed Use Specific Plan
  - Adoption of the Mitigation Monitoring and Reporting Program

EIR Focus Areas

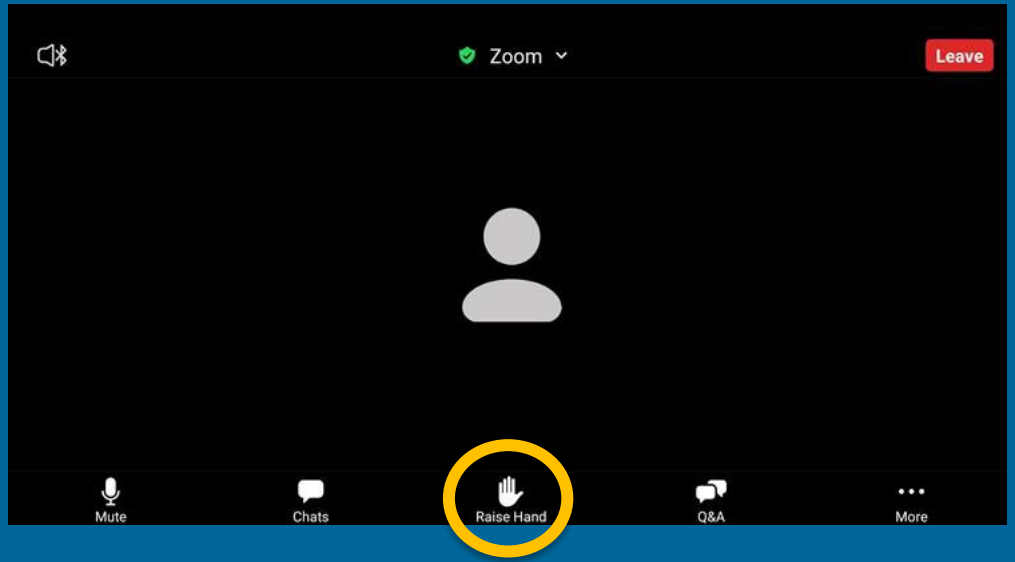
Based on the NOP and public scoping, the following topics will be addressed in the Project EIR:

- Aesthetics
- Agriculture and Forestry
- Air Quality
- Biological Resources
- Cultural Resources
- Energy
- Geology and Soils
- Greenhouse Gas Emissions
- Hazards and Hazardous Materials
- Hydrology and Water Quality
- Land Use and Planning
- Noise
- Population and Housing
- Public Services
- Transportation / VMT
- Tribal Cultural Resources
- Utilities and Service Systems
- Wildfire

Opportunities for Public Involvement

- Comments on the NOP will be accepted through March 13, 2023.
- 45-day Draft EIR comment period is anticipated to run during Summer 2023.
- Responses to EIR comments will be provided to public agencies not less than ten days prior to public hearings.
- Notices will be provided on dates of Planning Commission and City Council hearings on Final EIR.

Questions and Comments?



Please click on the raised had icon if you would like ask a question or make a comment.

Project Planner:
Edmelynne Hutter, Senior Planner
909-395-2429
EHutter@ontarioca.gov

NOP COMMENT LETTERS

STATE OF CALIFORNIA Gavin Newsom, Governor

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[Vacant]

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[Vacant]

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
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West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

RECEIVED
FEB 22 2023
City of Ontario
Planning Department

February 14, 2023

Edmelynne V. Hutter
City of Ontario
303 East B Street
Ontario, CA 91764

Re: 2023020281, Euclid Mixed Use Specific Plan Project, San Bernardino County

Dear Ms. Hutter:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements.** If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

a. A brief description of the project.

b. The lead agency contact information.

c. Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).

d. A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

a. For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

a. Alternatives to the project.

b. Recommended mitigation measures.

c. Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

a. Type of environmental review necessary.

b. Significance of the tribal cultural resources.

c. Significance of the project's impacts on tribal cultural resources.

d. If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

a. Whether the proposed project has a significant impact on an identified tribal cultural resource.

b. Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

a. Avoidance and preservation of the resources in place, including, but not limited to:

i. Planning and construction to avoid the resources and protect the cultural and natural context.

ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:

i. Protecting the cultural character and integrity of the resource.

ii. Protecting the traditional use of the resource.

iii. Protecting the confidentiality of the resource.

c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.

d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).

e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).

f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).
2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.
3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).
4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:
    a. The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
    b. Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (https://ohp.parks.ca.gov/?page_id=30331) for an archaeological records search. The records search will determine:
    a. If part or all of the APE has been previously surveyed for cultural resources.
    b. If any known cultural resources have already been recorded on or adjacent to the APE.
    c. If the probability is low, moderate, or high that cultural resources are located in the APE.
    d. If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.
    a. The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
    b. The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:
   a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.
   b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.
   a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.
   b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.
   c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Cameron.Vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

cc: State Clearinghouse

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VIA E-MAIL

February 22, 2023

Edmelynne V. Hutter
City of Ontario Planning Department
303 East B Street
Ontario, CA 91764
Em: ehutter@ontarioca.gov

RE: City of Ontario's Euclid Mixed Use Specific Plan Project (PSP22-001)

Dear Edmelynne V. Hutter,

On behalf of the Southwest Mountain States Regional Council of Carpenters ("**Southwest Carpenters**" or "**SWMSRCC**"), my Office is submitting these comments for the City of Ontario's ("City") February 22, 2023, Scoping Meeting for the Euclid Mixed Use Specific Plan project ("**Project**").

The Southwest Carpenters is a labor union representing over 63,000 union carpenters in 10 states, including California, and has a strong interest in well-ordered land use planning and in addressing the environmental impacts of development projects.

Individual members of the Southwest Carpenters live, work, and recreate in the City and surrounding communities and would be directly affected by the Project's environmental impacts.

The Southwest Carpenters expressly reserves the right to supplement these comments at or prior to hearings on the Project, and at any later hearing and proceeding related to this Project. Gov. Code, § 65009, subd. (b); Pub. Res. Code, § 21177, subd. (a); see *Bakersfield Citizens for Local Control v. Bakersfield* (2004) 124 Cal.App.4th 1184, 1199-1203; see also *Galante Vineyards v. Monterey Water Dist.* (1997) 60 Cal.App.4th 1109, 1121.

The Southwest Carpenters incorporates by reference all comments raising issues regarding the Environmental Impact Report (EIR) submitted prior to certification of the EIR for the Project. See *Citizens for Clean Energy v City of Woodland* (2014) 225

Cal.App.4th 173, 191 (finding that any party who has objected to the project's environmental documentation may assert any issue timely raised by other parties).

Moreover, the Southwest Carpenters requests that the City provide notice for any and all notices referring or related to the Project issued under the California Environmental Quality Act (**CEQA**) (Pub. Res. Code, § 21000 *et seq.*), and the California Planning and Zoning Law ("**Planning and Zoning Law**") (Gov. Code, §§ 65000–65010). California Public Resources Code Sections 21092.2, and 21167(f) and California Government Code Section 65092 require agencies to mail such notices to any person who has filed a written request for them with the clerk of the agency's governing body.

I. THE CITY SHOULD REQUIRE THE USE OF A LOCAL WORKFORCE TO BENEFIT THE COMMUNITY'S ECONOMIC DEVELOPMENT AND ENVIRONMENT

The City should require the Project to be built using a local workers who have graduated from a Joint Labor-Management Apprenticeship Program approved by the State of California, have at least as many hours of on-the-job experience in the applicable craft which would be required to graduate from such a state-approved apprenticeship training program, or who are registered apprentices in a state-approved apprenticeship training program.

Community benefits such as local hire can also be helpful to reduce environmental impacts and improve the positive economic impact of the Project. Local hire provisions requiring that a certain percentage of workers reside within 10 miles or less of the Project site can reduce the length of vendor trips, reduce greenhouse gas emissions, and provide localized economic benefits. As environmental consultants Matt Hagemann and Paul E. Rosenfeld note:

> [A]ny local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the reduction would vary based on the location and urbanization level of the project site.

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling.

Workforce requirements promote the development of skilled trades that yield sustainable economic development. As the California Workforce Development Board and the University of California, Berkeley Center for Labor Research and Education concluded:

> [L]abor should be considered an investment rather than a cost—and investments in growing, diversifying, and upskilling California's workforce can positively affect returns on climate mitigation efforts. In other words, well-trained workers are key to delivering emissions reductions and moving California closer to its climate targets.[1]

Furthermore, workforce policies have significant environmental benefits given that they improve an area's jobs-housing balance, decreasing the amount and length of job commutes and the associated greenhouse gas (GHG) emissions. In fact, on May 7, 2021, the South Coast Air Quality Management District found that that the "[u]se of a local state-certified apprenticeship program" can result in air pollutant reductions.[2]

Locating jobs closer to residential areas can have significant environmental benefits. As the California Planning Roundtable noted in 2008:

> People who live and work in the same jurisdiction would be more likely to take transit, walk, or bicycle to work than residents of less balanced communities and their vehicle trips would be shorter. Benefits would include potential reductions in both vehicle miles traveled and vehicle hours traveled.[3]

Moreover, local hire mandates and skill-training are critical facets of a strategy to reduce vehicle miles traveled (VMT). As planning experts Robert Cervero and

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[1] California Workforce Development Board (2020) Putting California on the High Road: A Jobs and Climate Action Plan for 2030 at p. ii, *available at* https://laborcenter.berkeley.edu/wp-content/uploads/2020/09/Putting-California-on-the-High-Road.pdf.

[2] South Coast Air Quality Management District (May 7, 2021) Certify Final Environmental Assessment and Adopt Proposed Rule 2305 – Warehouse Indirect Source Rule – Warehouse Actions and Investments to Reduce Emissions Program, and Proposed Rule 316 – Fees for Rule 2305, Submit Rule 2305 for Inclusion Into the SIP, and Approve Supporting Budget Actions, *available at* http://www.aqmd.gov/docs/default-source/Agendas/Governing-Board/2021/2021-May7-027.pdf?sfvrsn=10.

[3] California Planning Roundtable (2008) Deconstructing Jobs-Housing Balance at p. 6, *available at* https://cproundtable.org/static/media/uploads/publications/cpr-jobs-housing.pdf

Michael Duncan have noted, simply placing jobs near housing stock is insufficient to achieve VMT reductions given that the skill requirements of available local jobs must match those held by local residents.[4] Some municipalities have even tied local hire and other workforce policies to local development permits to address transportation issues. Cervero and Duncan note that:

> In nearly built-out Berkeley, CA, the approach to balancing jobs and housing is to create local jobs rather than to develop new housing. The city's First Source program encourages businesses to hire local residents, especially for entry- and intermediate-level jobs, and sponsors vocational training to ensure residents are employment-ready. While the program is voluntary, some 300 businesses have used it to date, placing more than 3,000 city residents in local jobs since it was launched in 1986. When needed, these carrots are matched by sticks, since the city is not shy about negotiating corporate participation in First Source as a condition of approval for development permits.

Recently, the State of California verified its commitment towards workforce development through the Affordable Housing and High Road Jobs Act of 2022, otherwise known as Assembly Bill No. 2011 ("**AB2011**"). AB2011 amended the Planning and Zoning Law to allow ministerial, by-right approval for projects being built alongside commercial corridors that meet affordability and labor requirements.

The City should consider utilizing local workforce policies and requirements to benefit the local area economically and to mitigate greenhouse gas, improve air quality, and reduce transportation impacts.

II. THE CITY SHOULD IMPOSE TRAINING REQUIREMENTS FOR THE PROJECT'S CONSTRUCTION ACTIVITIES TO PREVENT COMMUNITY SPREAD OF COVID-19 AND OTHER INFECTIOUS DISEASES

Construction work has been defined as a Lower to High-risk activity for COVID-19 spread by the Occupations Safety and Health Administration. Recently, several

[4] Cervero, Robert and Duncan, Michael (2006) Which Reduces Vehicle Travel More: Jobs-Housing Balance or Retail-Housing Mixing? Journal of the American Planning Association 72 (4), 475-490, 482, *available at* http://reconnectingamerica.org/assets/Uploads/UTCT-825.pdf.

construction sites have been identified as sources of community spread of COVID-19.[5]

Southwest Carpenters recommend that the Lead Agency adopt additional requirements to mitigate public health risks from the Project's construction activities. Southwest Carpenters requests that the Lead Agency require safe on-site construction work practices as well as training and certification for any construction workers on the Project Site.

In particular, based upon Southwest Carpenters' experience with safe construction site work practices, Southwest Carpenters recommends that the Lead Agency require that while construction activities are being conducted at the Project Site:

Construction Site Design:

- The Project Site will be limited to two controlled entry points.
- Entry points will have temperature screening technicians taking temperature readings when the entry point is open.
- The Temperature Screening Site Plan shows details regarding access to the Project Site and Project Site logistics for conducting temperature screening.
- A 48-hour advance notice will be provided to all trades prior to the first day of temperature screening.
- The perimeter fence directly adjacent to the entry points will be clearly marked indicating the appropriate 6-foot social distancing position for when you approach the screening area. Please reference the Apex temperature screening site map for additional details.
- There will be clear signage posted at the project site directing you through temperature screening.

[5] Santa Clara County Public Health (June 12, 2020) COVID-19 CASES AT CONSTRUCTION SITES HIGHLIGHT NEED FOR CONTINUED VIGILANCE IN SECTORS THAT HAVE REOPENED, *available at* https://www.sccgov.org/sites/covid19/Pages/press-release-06-12-2020-cases-at-construction-sites.aspx.

- Provide hand washing stations throughout the construction site.

Testing Procedures:

- The temperature screening being used are non-contact devices.
- Temperature readings will not be recorded.
- Personnel will be screened upon entering the testing center and should only take 1-2 seconds per individual.
- Hard hats, head coverings, sweat, dirt, sunscreen or any other cosmetics must be removed on the forehead before temperature screening.
- Anyone who refuses to submit to a temperature screening or does not answer the health screening questions will be refused access to the Project Site.
- Screening will be performed at both entrances from 5:30 am to 7:30 am.; main gate [ZONE 1] and personnel gate [ZONE 2]
- After 7:30 am only the main gate entrance [ZONE 1] will continue to be used for temperature testing for anybody gaining entry to the project site such as returning personnel, deliveries, and visitors.
- If the digital thermometer displays a temperature reading above 100.0 degrees Fahrenheit, a second reading will be taken to verify an accurate reading.
- If the second reading confirms an elevated temperature, DHS will instruct the individual that he/she will not be allowed to enter the Project Site. DHS will also instruct the individual to promptly notify his/her supervisor and his/her human resources (HR) representative and provide them with a copy of Annex A.

Planning

- Require the development of an Infectious Disease Preparedness and Response Plan that will include basic infection prevention measures (requiring the use of personal protection equipment), policies and procedures for prompt identification and isolation of sick individuals, social distancing (prohibiting gatherings of no more than 10 people including all-hands meetings and all-hands lunches) communication and training and workplace controls that meet standards that may be promulgated by the Center for Disease Control, Occupational Safety and Health Administration, Cal/OSHA, California Department of Public Health or applicable local public health agencies.[6]

The United Brotherhood of Carpenters and Carpenters International Training Fund has developed COVID-19 Training and Certification to ensure that Carpenter union members and apprentices conduct safe work practices. The Agency should require that all construction workers undergo COVID-19 Training and Certification before being allowed to conduct construction activities at the Project Site.

Southwest Carpenters has also developed a rigorous Infection Control Risk Assessment ("**ICRA**") training program to ensure it delivers a workforce that understands how to identify and control infection risks by implementing protocols to protect themselves and all others during renovation and construction projects in healthcare environments.[7]

ICRA protocols are intended to contain pathogens, control airflow, and protect patients during the construction, maintenance and renovation of healthcare facilities. ICRA protocols prevent cross contamination, minimizing the risk of secondary infections in patients at hospital facilities.

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[6] *See also* The Center for Construction Research and Training, North America's Building Trades Unions (April 27 2020) NABTU and CPWR COVIC-19 Standards for U.S Constructions Sites, *available at* https://www.cpwr.com/sites/default/files/NABTU_CPWR_Standards_COVID-19.pdf; Los Angeles County Department of Public Works (2020) Guidelines for Construction Sites During COVID-19 Pandemic, *available at* https://dpw.lacounty.gov/building-and-safety/docs/pw_guidelines-construction-sites.pdf.

[7] For details concerning Southwest Carpenters's ICRA training program, *see* https://icrahealthcare.com/.

The City should require the Project to be built using a workforce trained in ICRA protocols.

Sincerely,

Mitchell M. Tsai
Attorneys for Southwest Regional
Council of Carpenters

Attached:

March 8, 2021 SWAPE Letter to Mitchell M. Tsai re Local Hire Requirements and Considerations for Greenhouse Gas Modeling (Exhibit A);

Air Quality and GHG Expert Paul Rosenfeld CV (Exhibit B); and

Air Quality and GHG Expert Matt Hagemann CV (Exhibit C).

EXHIBIT A

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

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March 8, 2021

Mitchell M. Tsai
155 South El Molino, Suite 104
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Subject: Local Hire Requirements and Considerations for Greenhouse Gas Modeling

Dear Mr. Tsai,

Soil Water Air Protection Enterprise ("SWAPE") is pleased to provide the following draft technical report explaining the significance of worker trips required for construction of land use development projects with respect to the estimation of greenhouse gas ("GHG") emissions. The report will also discuss the potential for local hire requirements to reduce the length of worker trips, and consequently, reduced or mitigate the potential GHG impacts.

Worker Trips and Greenhouse Gas Calculations

The California Emissions Estimator Model ("CalEEMod") is a "statewide land use emissions computer model designed to provide a uniform platform for government agencies, land use planners, and environmental professionals to quantify potential criteria pollutant and greenhouse gas (GHG) emissions associated with both construction and operations from a variety of land use projects."[1] CalEEMod quantifies construction-related emissions associated with land use projects resulting from off-road construction equipment; on-road mobile equipment associated with workers, vendors, and hauling; fugitive dust associated with grading, demolition, truck loading, and on-road vehicles traveling along paved and unpaved roads; and architectural coating activities; and paving.[2]

The number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.[3]

[1] "California Emissions Estimator Model." CAPCOA, 2017, *available at:* http://www.aqmd.gov/caleemod/home.
[2] "California Emissions Estimator Model." CAPCOA, 2017, *available at:* http://www.aqmd.gov/caleemod/home.
[3] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.

Specifically, the number and length of vehicle trips is utilized to estimate the vehicle miles travelled ("VMT") associated with construction. Then, utilizing vehicle-class specific EMFAC 2014 emission factors, CalEEMod calculates the vehicle exhaust, evaporative, and dust emissions resulting from construction-related VMT, including personal vehicles for worker commuting.[4]

Specifically, in order to calculate VMT, CalEEMod multiplies the average daily trip rate by the average overall trip length (see excerpt below):

> "$VMT_d = \Sigma(\text{Average Daily Trip Rate}_i * \text{Average Overall Trip Length}_i)_n$
>
> Where:
>
> n = Number of land uses being modeled."[5]

Furthermore, to calculate the on-road emissions associated with worker trips, CalEEMod utilizes the following equation (see excerpt below):

> "$\text{Emissions}_{pollutant} = VMT * EF_{running,pollutant}$
>
> Where:
>
> $\text{Emissions}_{pollutant}$ = emissions from vehicle running for each pollutant
>
> VMT = vehicle miles traveled
>
> $EF_{running,pollutant}$ = emission factor for running emissions."[6]

Thus, there is a direct relationship between trip length and VMT, as well as a direct relationship between VMT and vehicle running emissions. In other words, when the trip length is increased, the VMT and vehicle running emissions increase as a result. Thus, vehicle running emissions can be reduced by decreasing the average overall trip length, by way of a local hire requirement or otherwise.

Default Worker Trip Parameters and Potential Local Hire Requirements

As previously discussed, the number, length, and vehicle class of worker trips are utilized by CalEEMod to calculate emissions associated with the on-road vehicle trips required to transport workers to and from the Project site during construction.[7] In order to understand how local hire requirements and associated worker trip length reductions impact GHG emissions calculations, it is important to consider the CalEEMod default worker trip parameters. CalEEMod provides recommended default values based on site-specific information, such as land use type, meteorological data, total lot acreage, project type and typical equipment associated with project type. If more specific project information is known, the user can change the default values and input project-specific values, but the California Environmental Quality Act ("CEQA") requires that such changes be justified by substantial evidence.[8] The default number of construction-related worker trips is calculated by multiplying the

[4] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 14-15.
[5] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 23.
[6] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 15.
[7] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.
[8] CalEEMod User Guide, *available at:* http://www.caleemod.com/, p. 1, 9.

number of pieces of equipment for all phases by 1.25, with the exception of worker trips required for the building construction and architectural coating phases.[9] Furthermore, the worker trip vehicle class is a 50/25/25 percent mix of light duty autos, light duty truck class 1 and light duty truck class 2, respectively."[10] Finally, the default worker trip length is consistent with the length of the operational home-to-work vehicle trips.[11] The operational home-to-work vehicle trip lengths are:

> "[B]ased on the *location* and *urbanization* selected on the project characteristic screen. These values were *supplied by the air districts or use a default average for the state*. Each district (or county) also assigns trip lengths for urban and rural settings" (emphasis added). [12]

Thus, the default worker trip length is based on the location and urbanization level selected by the User when modeling emissions. The below table shows the CalEEMod default rural and urban worker trip lengths by air basin (see excerpt below and Attachment A).[13]

Worker Trip Length by Air Basin		
Air Basin	**Rural (miles)**	**Urban (miles)**
Great Basin Valleys	16.8	10.8
Lake County	16.8	10.8
Lake Tahoe	16.8	10.8
Mojave Desert	16.8	10.8
Mountain Counties	16.8	10.8
North Central Coast	17.1	12.3
North Coast	16.8	10.8
Northeast Plateau	16.8	10.8
Sacramento Valley	16.8	10.8
Salton Sea	14.6	11
San Diego	16.8	10.8
San Francisco Bay Area	10.8	10.8
San Joaquin Valley	16.8	10.8
South Central Coast	16.8	10.8
South Coast	19.8	14.7
Average	**16.47**	**11.17**
Minimum	**10.80**	**10.80**
Maximum	**19.80**	**14.70**
Range	**9.00**	**3.90**

[9] "CalEEMod User's Guide." CAPCOA, November 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/01_user-39-s-guide2016-3-2_15november2017.pdf?sfvrsn=4, p. 34.
[10] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 15.
[11] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 14.
[12] "Appendix A Calculation Details for CalEEMod." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/02_appendix-a2016-3-2.pdf?sfvrsn=6, p. 21.
[13] "Appendix D Default Data Tables." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4, p. D-84 – D-86.

As demonstrated above, default rural worker trip lengths for air basins in California vary from 10.8- to 19.8-miles, with an average of 16.47 miles. Furthermore, default urban worker trip lengths vary from 10.8- to 14.7-miles, with an average of 11.17 miles. Thus, while default worker trip lengths vary by location, default urban worker trip lengths tend to be shorter in length. Based on these trends evident in the CalEEMod default worker trip lengths, we can reasonably assume that the efficacy of a local hire requirement is especially dependent upon the urbanization of the project site, as well as the project location.

Practical Application of a Local Hire Requirement and Associated Impact

To provide an example of the potential impact of a local hire provision on construction-related GHG emissions, we estimated the significance of a local hire provision for the Village South Specific Plan ("Project") located in the City of Claremont ("City"). The Project proposed to construct 1,000 residential units, 100,000-SF of retail space, 45,000-SF of office space, as well as a 50-room hotel, on the 24-acre site. The Project location is classified as Urban and lies within the Los Angeles-South Coast County. As a result, the Project has a default worker trip length of 14.7 miles.[14] In an effort to evaluate the potential for a local hire provision to reduce the Project's construction-related GHG emissions, we prepared an updated model, reducing all worker trip lengths to 10 miles (see Attachment B). Our analysis estimates that if a local hire provision with a 10-mile radius were to be implemented, the GHG emissions associated with Project construction would decrease by approximately 17% (see table below and Attachment C).

Local Hire Provision Net Change	
Without Local Hire Provision	
Total Construction GHG Emissions (MT CO_2e)	3,623
Amortized Construction GHG Emissions (MT CO_2e/year)	120.77
With Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,024
Amortized Construction GHG Emissions (MT CO_2e/year)	100.80
% Decrease in Construction-related GHG Emissions	***17%***

As demonstrated above, by implementing a local hire provision requiring 10 mile worker trip lengths, the Project could reduce potential GHG emissions associated with construction worker trips. More broadly, any local hire requirement that results in a decreased worker trip length from the default value has the potential to result in a reduction of construction-related GHG emissions, though the significance of the reduction would vary based on the location and urbanization level of the project site.

This serves as an example of the potential impacts of local hire requirements on estimated project-level GHG emissions, though it does not indicate that local hire requirements would result in reduced construction-related GHG emission for all projects. As previously described, the significance of a local hire requirement depends on the worker trip length enforced and the default worker trip length for the project's urbanization level and location.

[14] "Appendix D Default Data Tables." CAPCOA, October 2017, *available at:* http://www.aqmd.gov/docs/default-source/caleemod/05_appendix-d2016-3-2.pdf?sfvrsn=4, p. D-85.

Disclaimer

SWAPE has received limited discovery. Additional information may become available in the future; thus, we retain the right to revise or amend this report when additional information becomes available. Our professional services have been performed using that degree of care and skill ordinarily exercised, under similar circumstances, by reputable environmental consultants practicing in this or similar localities at the time of service. No other warranty, expressed or implied, is made as to the scope of work, work methodologies and protocols, site conditions, analytical testing results, and findings presented. This report reflects efforts which were limited to information that was reasonably accessible at the time of the work, and may contain informational gaps, inconsistencies, or otherwise be incomplete due to the unavailability or uncertainty of information obtained or provided by third parties.

Sincerely,



Matt Hagemann, P.G., C.Hg.



Paul E. Rosenfeld, Ph.D.

Location Type	Location Name	Rural H-W (miles)	Urban H-W (miles)
Air Basin	Great Basin	16.8	10.8
Air Basin	Lake County	16.8	10.8
Air Basin	Lake Tahoe	16.8	10.8
Air Basin	Mojave Desert	16.8	10.8
Air Basin	Mountain	16.8	10.8
Air Basin	North Central	17.1	12.3
Air Basin	North Coast	16.8	10.8
Air Basin	Northeast	16.8	10.8
Air Basin	Sacramento	16.8	10.8
Air Basin	Salton Sea	14.6	11
Air Basin	San Diego	16.8	10.8
Air Basin	San Francisco	10.8	10.8
Air Basin	San Joaquin	16.8	10.8
Air Basin	South Central	16.8	10.8
Air Basin	South Coast	19.8	14.7
Air District	Amador County	16.8	10.8
Air District	Antelope Valley	16.8	10.8
Air District	Bay Area AQMD	10.8	10.8
Air District	Butte County	12.54	12.54
Air District	Calaveras	16.8	10.8
Air District	Colusa County	16.8	10.8
Air District	El Dorado	16.8	10.8
Air District	Feather River	16.8	10.8
Air District	Glenn County	16.8	10.8
Air District	Great Basin	16.8	10.8
Air District	Imperial County	10.2	7.3
Air District	Kern County	16.8	10.8
Air District	Lake County	16.8	10.8
Air District	Lassen County	16.8	10.8
Air District	Mariposa	16.8	10.8
Air District	Mendocino	16.8	10.8
Air District	Modoc County	16.8	10.8
Air District	Mojave Desert	16.8	10.8
Air District	Monterey Bay	16.8	10.8
Air District	North Coast	16.8	10.8
Air District	Northern Sierra	16.8	10.8
Air District	Northern	16.8	10.8
Air District	Placer County	16.8	10.8
Air District	Sacramento	15	10

Air District	San Diego	16.8	10.8
Air District	San Joaquin	16.8	10.8
Air District	San Luis Obispo	13	13
Air District	Santa Barbara	8.3	8.3
Air District	Shasta County	16.8	10.8
Air District	Siskiyou County	16.8	10.8
Air District	South Coast	19.8	14.7
Air District	Tehama County	16.8	10.8
Air District	Tuolumne	16.8	10.8
Air District	Ventura County	16.8	10.8
Air District	Yolo/Solano	15	10
County	Alameda	10.8	10.8
County	Alpine	16.8	10.8
County	Amador	16.8	10.8
County	Butte	12.54	12.54
County	Calaveras	16.8	10.8
County	Colusa	16.8	10.8
County	Contra Costa	10.8	10.8
County	Del Norte	16.8	10.8
County	El Dorado-Lake	16.8	10.8
County	El Dorado-	16.8	10.8
County	Fresno	16.8	10.8
County	Glenn	16.8	10.8
County	Humboldt	16.8	10.8
County	Imperial	10.2	7.3
County	Inyo	16.8	10.8
County	Kern-Mojave	16.8	10.8
County	Kern-San	16.8	10.8
County	Kings	16.8	10.8
County	Lake	16.8	10.8
County	Lassen	16.8	10.8
County	Los Angeles-	16.8	10.8
County	Los Angeles-	19.8	14.7
County	Madera	16.8	10.8
County	Marin	10.8	10.8
County	Mariposa	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Mendocino-	16.8	10.8
County	Merced	16.8	10.8
County	Modoc	16.8	10.8
County	Mono	16.8	10.8
County	Monterey	16.8	10.8
County	Napa	10.8	10.8

County	Nevada	16.8	10.8
County	Orange	19.8	14.7
County	Placer-Lake	16.8	10.8
County	Placer-Mountain	16.8	10.8
County	Placer-	16.8	10.8
County	Plumas	16.8	10.8
County	Riverside-	16.8	10.8
County	Riverside-	19.8	14.7
County	Riverside-Salton	14.6	11
County	Riverside-South	19.8	14.7
County	Sacramento	15	10
County	San Benito	16.8	10.8
County	San Bernardino-	16.8	10.8
County	San Bernardino-	19.8	14.7
County	San Diego	16.8	10.8
County	San Francisco	10.8	10.8
County	San Joaquin	16.8	10.8
County	San Luis Obispo	13	13
County	San Mateo	10.8	10.8
County	Santa Barbara-	8.3	8.3
County	Santa Barbara-	8.3	8.3
County	Santa Clara	10.8	10.8
County	Santa Cruz	16.8	10.8
County	Shasta	16.8	10.8
County	Sierra	16.8	10.8
County	Siskiyou	16.8	10.8
County	Solano-	15	10
County	Solano-San	16.8	10.8
County	Sonoma-North	16.8	10.8
County	Sonoma-San	10.8	10.8
County	Stanislaus	16.8	10.8
County	Sutter	16.8	10.8
County	Tehama	16.8	10.8
County	Trinity	16.8	10.8
County	Tulare	16.8	10.8
County	Tuolumne	16.8	10.8
County	Ventura	16.8	10.8
County	Yolo	15	10
County	Yuba	16.8	10.8
Statewide	Statewide	16.8	10.8

Worker Trip Length by Air Basin		
Air Basin	**Rural (miles)**	**Urban (miles)**
Great Basin Valleys	16.8	10.8
Lake County	16.8	10.8
Lake Tahoe	16.8	10.8
Mojave Desert	16.8	10.8
Mountain Counties	16.8	10.8
North Central Coast	17.1	12.3
North Coast	16.8	10.8
Northeast Plateau	16.8	10.8
Sacramento Valley	16.8	10.8
Salton Sea	14.6	11
San Diego	16.8	10.8
San Francisco Bay Area	10.8	10.8
San Joaquin Valley	16.8	10.8
South Central Coast	16.8	10.8
South Coast	19.8	14.7
Average	**16.47**	**11.17**
Mininum	**10.80**	**10.80**
Maximum	**19.80**	**14.70**
Range	**9.00**	**3.90**

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27

tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1713	1.8242	1.1662	2.4000e-003	0.4169	0.0817	0.4986	0.1795	0.0754	0.2549	0.0000	213.1969	213.1969	0.0601	0.0000	214.6993
2022	0.6904	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.6826	1,721.6826	0.1294	0.0000	1,724.9187
2023	0.6148	3.3649	5.6747	0.0178	1.1963	0.0996	1.2959	0.3203	0.0935	0.4138	0.0000	1,627.5295	1,627.5295	0.1185	0.0000	1,630.4925
2024	4.1619	0.1335	0.2810	5.9000e-004	0.0325	6.4700e-003	0.0390	8.6300e-003	6.0400e-003	0.0147	0.0000	52.9078	52.9078	8.0200e-003	0.0000	53.1082
Maximum	**4.1619**	**4.1142**	**6.1625**	**0.0189**	**1.3058**	**0.1201**	**1.4259**	**0.3460**	**0.1128**	**0.4588**	**0.0000**	**1,721.6826**	**1,721.6826**	**0.1294**	**0.0000**	**1,724.9187**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1713	1.8242	1.1662	2.4000e-003	0.4169	0.0817	0.4986	0.1795	0.0754	0.2549	0.0000	213.1967	213.1967	0.0601	0.0000	214.6991
2022	0.6904	4.1142	6.1625	0.0189	1.3058	0.1201	1.4259	0.3460	0.1128	0.4588	0.0000	1,721.6823	1,721.6823	0.1294	0.0000	1,724.9183
2023	0.6148	3.3648	5.6747	0.0178	1.1963	0.0996	1.2959	0.3203	0.0935	0.4138	0.0000	1,627.5291	1,627.5291	0.1185	0.0000	1,630.4921
2024	4.1619	0.1335	0.2810	5.9000e-004	0.0325	6.4700e-003	0.0390	8.6300e-003	6.0400e-003	0.0147	0.0000	52.9077	52.9077	8.0200e-003	0.0000	53.1082
Maximum	**4.1619**	**4.1142**	**6.1625**	**0.0189**	**1.3058**	**0.1201**	**1.4259**	**0.3460**	**0.1128**	**0.4588**	**0.0000**	**1,721.6823**	**1,721.6823**	**0.1294**	**0.0000**	**1,724.9183**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-1-2021**	**11-30-2021**	1.4103	1.4103
2	**12-1-2021**	**2-28-2022**	1.3613	1.3613
3	**3-1-2022**	**5-31-2022**	1.1985	1.1985
4	**6-1-2022**	**8-31-2022**	1.1921	1.1921
5	**9-1-2022**	**11-30-2022**	1.1918	1.1918
6	**12-1-2022**	**2-28-2023**	1.0774	1.0774
7	**3-1-2023**	**5-31-2023**	1.0320	1.0320
8	**6-1-2023**	**8-31-2023**	1.0260	1.0260

9	**9-1-2023**	**11-30-2023**	1.0265	1.0265
10	**12-1-2023**	**2-29-2024**	2.8857	2.8857
11	**3-1-2024**	**5-31-2024**	1.6207	1.6207
		Highest	2.8857	2.8857

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3,896.0732	3,896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	**6.8692**	**9.5223**	**30.3407**	**0.0914**	**7.7979**	**0.2260**	**8.0240**	**2.0895**	**0.2219**	**2.3114**	**236.9712**	**12,294.1807**	**12,531.1519**	**15.7904**	**0.1260**	**12,963.4751**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3,896.0732	3,896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	**6.8692**	**9.5223**	**30.3407**	**0.0914**	**7.7979**	**0.2260**	**8.0240**	**2.0895**	**0.2219**	**2.3114**	**236.9712**	**12,294.1807**	**12,531.1519**	**15.7904**	**0.1260**	**12,963.4751**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	**0.0475**	**0.4716**	**0.3235**	**5.8000e-004**	**0.0496**	**0.0233**	**0.0729**	**7.5100e-003**	**0.0216**	**0.0291**	**0.0000**	**51.0012**	**51.0012**	**0.0144**	**0.0000**	**51.3601**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	**2.9000e-003**	**0.0641**	**0.0233**	**2.0000e-004**	**6.4100e-003**	**2.1000e-004**	**6.6200e-003**	**1.7300e-003**	**2.0000e-004**	**1.9300e-003**	**0.0000**	**19.6816**	**19.6816**	**1.2800e-003**	**0.0000**	**19.7136**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	**0.0475**	**0.4716**	**0.3235**	**5.8000e-004**	**0.0496**	**0.0233**	**0.0729**	**7.5100e-003**	**0.0216**	**0.0291**	**0.0000**	**51.0011**	**51.0011**	**0.0144**	**0.0000**	**51.3600**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	9.7000e-004	7.5000e-004	8.5100e-003	2.0000e-005	2.4700e-003	2.0000e-005	2.4900e-003	6.5000e-004	2.0000e-005	6.7000e-004	0.0000	2.2251	2.2251	7.0000e-005	0.0000	2.2267
Total	**2.9000e-003**	**0.0641**	**0.0233**	**2.0000e-004**	**6.4100e-003**	**2.1000e-004**	**6.6200e-003**	**1.7300e-003**	**2.0000e-004**	**1.9300e-003**	**0.0000**	**19.6816**	**19.6816**	**1.2800e-003**	**0.0000**	**19.7136**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7061**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**7.7000e-004**	**6.0000e-004**	**6.8100e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7801**	**1.7801**	**5.0000e-005**	**0.0000**	**1.7814**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7060**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.7000e-004	6.0000e-004	6.8100e-003	2.0000e-005	1.9700e-003	2.0000e-005	1.9900e-003	5.2000e-004	1.0000e-005	5.4000e-004	0.0000	1.7801	1.7801	5.0000e-005	0.0000	1.7814
Total	**7.7000e-004**	**6.0000e-004**	**6.8100e-003**	**2.0000e-005**	**1.9700e-003**	**2.0000e-005**	**1.9900e-003**	**5.2000e-004**	**1.0000e-005**	**5.4000e-004**	**0.0000**	**1.7801**	**1.7801**	**5.0000e-005**	**0.0000**	**1.7814**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776
Total	**0.0796**	**0.8816**	**0.5867**	**1.1800e-003**	**0.1741**	**0.0377**	**0.2118**	**0.0693**	**0.0347**	**0.1040**	**0.0000**	**103.5405**	**103.5405**	**0.0335**	**0.0000**	**104.3776**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607
Total	**1.6400e-003**	**1.2700e-003**	**0.0144**	**4.0000e-005**	**4.1600e-003**	**3.0000e-005**	**4.2000e-003**	**1.1100e-003**	**3.0000e-005**	**1.1400e-003**	**0.0000**	**3.7579**	**3.7579**	**1.1000e-004**	**0.0000**	**3.7607**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5403	103.5403	0.0335	0.0000	104.3775
Total	**0.0796**	**0.8816**	**0.5867**	**1.1800e-003**	**0.1741**	**0.0377**	**0.2118**	**0.0693**	**0.0347**	**0.1040**	**0.0000**	**103.5403**	**103.5403**	**0.0335**	**0.0000**	**104.3775**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.6400e-003	1.2700e-003	0.0144	4.0000e-005	4.1600e-003	3.0000e-005	4.2000e-003	1.1100e-003	3.0000e-005	1.1400e-003	0.0000	3.7579	3.7579	1.1000e-004	0.0000	3.7607
Total	**1.6400e-003**	**1.2700e-003**	**0.0144**	**4.0000e-005**	**4.1600e-003**	**3.0000e-005**	**4.2000e-003**	**1.1100e-003**	**3.0000e-005**	**1.1400e-003**	**0.0000**	**3.7579**	**3.7579**	**1.1000e-004**	**0.0000**	**3.7607**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004		5.7200e-003	5.7200e-003		5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	**0.0127**	**0.1360**	**0.1017**	**2.2000e-004**	**0.0807**	**5.7200e-003**	**0.0865**	**0.0180**	**5.2600e-003**	**0.0233**	**0.0000**	**19.0871**	**19.0871**	**6.1700e-003**	**0.0000**	**19.2414**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684
Total	**2.8000e-004**	**2.1000e-004**	**2.4400e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.7000e-004**	**2.0000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**0.6679**	**0.6679**	**2.0000e-005**	**0.0000**	**0.6684**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004		5.7200e-003	5.7200e-003		5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	**0.0127**	**0.1360**	**0.1017**	**2.2000e-004**	**0.0807**	**5.7200e-003**	**0.0865**	**0.0180**	**5.2600e-003**	**0.0233**	**0.0000**	**19.0871**	**19.0871**	**6.1700e-003**	**0.0000**	**19.2414**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	2.1000e-004	2.4400e-003	1.0000e-005	7.7000e-004	1.0000e-005	7.7000e-004	2.0000e-004	1.0000e-005	2.1000e-004	0.0000	0.6679	0.6679	2.0000e-005	0.0000	0.6684
Total	**2.8000e-004**	**2.1000e-004**	**2.4400e-003**	**1.0000e-005**	**7.7000e-004**	**1.0000e-005**	**7.7000e-004**	**2.0000e-004**	**1.0000e-005**	**2.1000e-004**	**0.0000**	**0.6679**	**0.6679**	**2.0000e-005**	**0.0000**	**0.6684**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881
Total	**0.2158**	**1.9754**	**2.0700**	**3.4100e-003**		**0.1023**	**0.1023**		**0.0963**	**0.0963**	**0.0000**	**293.1324**	**293.1324**	**0.0702**	**0.0000**	**294.8881**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.4088	0.3066	3.5305	0.0107	1.1103	8.8700e-003	1.1192	0.2949	8.1700e-003	0.3031	0.0000	966.8117	966.8117	0.0266	0.0000	967.4773
Total	**0.4616**	**2.0027**	**3.9885**	**0.0152**	**1.2243**	**0.0121**	**1.2363**	**0.3278**	**0.0112**	**0.3390**	**0.0000**	**1,408.7952**	**1,408.7952**	**0.0530**	**0.0000**	**1,410.1208**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877
Total	**0.2158**	**1.9754**	**2.0700**	**3.4100e-003**		**0.1023**	**0.1023**		**0.0963**	**0.0963**	**0.0000**	**293.1321**	**293.1321**	**0.0702**	**0.0000**	**294.8877**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.4088	0.3066	3.5305	0.0107	1.1103	8.8700e-003	1.1192	0.2949	8.1700e-003	0.3031	0.0000	966.8117	966.8117	0.0266	0.0000	967.4773
Total	**0.4616**	**2.0027**	**3.9885**	**0.0152**	**1.2243**	**0.0121**	**1.2363**	**0.3278**	**0.0112**	**0.3390**	**0.0000**	**1,408.7952**	**1,408.7952**	**0.0530**	**0.0000**	**1,410.1208**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2789	286.2789	0.0681	0.0000	287.9814
Total	**0.1942**	**1.7765**	**2.0061**	**3.3300e-003**		**0.0864**	**0.0864**		**0.0813**	**0.0813**	**0.0000**	**286.2789**	**286.2789**	**0.0681**	**0.0000**	**287.9814**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.3753	0.2708	3.1696	0.0101	1.0840	8.4100e-003	1.0924	0.2879	7.7400e-003	0.2957	0.0000	909.3439	909.3439	0.0234	0.0000	909.9291
Total	**0.4135**	**1.5218**	**3.5707**	**0.0144**	**1.1953**	**9.8700e-003**	**1.2051**	**0.3200**	**9.1400e-003**	**0.3292**	**0.0000**	**1,327.3369**	**1,327.3369**	**0.0462**	**0.0000**	**1,328.4916**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811
Total	**0.1942**	**1.7765**	**2.0061**	**3.3300e-003**		**0.0864**	**0.0864**		**0.0813**	**0.0813**	**0.0000**	**286.2785**	**286.2785**	**0.0681**	**0.0000**	**287.9811**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.3753	0.2708	3.1696	0.0101	1.0840	8.4100e-003	1.0924	0.2879	7.7400e-003	0.2957	0.0000	909.3439	909.3439	0.0234	0.0000	909.9291
Total	**0.4135**	**1.5218**	**3.5707**	**0.0144**	**1.1953**	**9.8700e-003**	**1.2051**	**0.3200**	**9.1400e-003**	**0.3292**	**0.0000**	**1,327.3369**	**1,327.3369**	**0.0462**	**0.0000**	**1,328.4916**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7100e-003**	**0.0663**	**0.0948**	**1.5000e-004**		**3.3200e-003**	**3.3200e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**13.0175**	**13.0175**	**4.2100e-003**	**0.0000**	**13.1227**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.7000e-004	3.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8963	0.8963	2.0000e-005	0.0000	0.8968
Total	**3.7000e-004**	**2.7000e-004**	**3.1200e-003**	**1.0000e-005**	**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8963**	**0.8963**	**2.0000e-005**	**0.0000**	**0.8968**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7100e-003**	**0.0663**	**0.0948**	**1.5000e-004**		**3.3200e-003**	**3.3200e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**13.0175**	**13.0175**	**4.2100e-003**	**0.0000**	**13.1227**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	3.7000e-004	2.7000e-004	3.1200e-003	1.0000e-005	1.0700e-003	1.0000e-005	1.0800e-003	2.8000e-004	1.0000e-005	2.9000e-004	0.0000	0.8963	0.8963	2.0000e-005	0.0000	0.8968
Total	**3.7000e-004**	**2.7000e-004**	**3.1200e-003**	**1.0000e-005**	**1.0700e-003**	**1.0000e-005**	**1.0800e-003**	**2.8000e-004**	**1.0000e-005**	**2.9000e-004**	**0.0000**	**0.8963**	**0.8963**	**2.0000e-005**	**0.0000**	**0.8968**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.1048**	**0.1609**	**2.5000e-004**		**5.1500e-003**	**5.1500e-003**		**4.7400e-003**	**4.7400e-003**	**0.0000**	**22.0292**	**22.0292**	**7.1200e-003**	**0.0000**	**22.2073**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.1000e-004	4.9200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4697	1.4697	4.0000e-005	0.0000	1.4706
Total	**5.9000e-004**	**4.1000e-004**	**4.9200e-003**	**2.0000e-005**	**1.8100e-003**	**1.0000e-005**	**1.8200e-003**	**4.8000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.4697**	**1.4697**	**4.0000e-005**	**0.0000**	**1.4706**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.1048**	**0.1609**	**2.5000e-004**		**5.1500e-003**	**5.1500e-003**		**4.7400e-003**	**4.7400e-003**	**0.0000**	**22.0292**	**22.0292**	**7.1200e-003**	**0.0000**	**22.2073**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.9000e-004	4.1000e-004	4.9200e-003	2.0000e-005	1.8100e-003	1.0000e-005	1.8200e-003	4.8000e-004	1.0000e-005	4.9000e-004	0.0000	1.4697	1.4697	4.0000e-005	0.0000	1.4706
Total	**5.9000e-004**	**4.1000e-004**	**4.9200e-003**	**2.0000e-005**	**1.8100e-003**	**1.0000e-005**	**1.8200e-003**	**4.8000e-004**	**1.0000e-005**	**4.9000e-004**	**0.0000**	**1.4697**	**1.4697**	**4.0000e-005**	**0.0000**	**1.4706**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**4.1404**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	6.9900e-003	0.0835	2.8000e-004	0.0307	2.3000e-004	0.0309	8.1500e-003	2.2000e-004	8.3700e-003	0.0000	24.9407	24.9407	6.1000e-004	0.0000	24.9558
Total	**0.0101**	**6.9900e-003**	**0.0835**	**2.8000e-004**	**0.0307**	**2.3000e-004**	**0.0309**	**8.1500e-003**	**2.2000e-004**	**8.3700e-003**	**0.0000**	**24.9407**	**24.9407**	**6.1000e-004**	**0.0000**	**24.9558**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**4.1404**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	0.0101	6.9900e-003	0.0835	2.8000e-004	0.0307	2.3000e-004	0.0309	8.1500e-003	2.2000e-004	8.3700e-003	0.0000	24.9407	24.9407	6.1000e-004	0.0000	24.9558
Total	**0.0101**	**6.9900e-003**	**0.0835**	**2.8000e-004**	**0.0307**	**2.3000e-004**	**0.0309**	**8.1500e-003**	**2.2000e-004**	**8.3700e-003**	**0.0000**	**24.9407**	**24.9407**	**6.1000e-004**	**0.0000**	**24.9558**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Unmitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
NaturalGas Mitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478
NaturalGas Unmitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		**0.1398**	**1.2312**	**0.7770**	**7.6200e-003**		**0.0966**	**0.0966**		**0.0966**	**0.0966**	**0.0000**	**1,383.4268**	**1,383.4268**	**0.0265**	**0.0254**	**1,391.6478**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		**0.1398**	**1.2312**	**0.7770**	**7.6200e-003**		**0.0966**	**0.0966**		**0.0966**	**0.0966**	**0.0000**	**1,383.4268**	**1,383.4268**	**0.0265**	**0.0254**	**1,391.6478**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		**2,512.6465**	**0.1037**	**0.0215**	**2,521.6356**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		**2,512.6465**	**0.1037**	**0.0215**	**2,521.6356**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Unmitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	**5.1437**	**0.2950**	**10.3804**	**1.6600e-003**		**0.0714**	**0.0714**		**0.0714**	**0.0714**	**0.0000**	**220.9670**	**220.9670**	**0.0201**	**3.7400e-003**	**222.5835**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	**5.1437**	**0.2950**	**10.3804**	**1.6600e-003**		**0.0714**	**0.0714**		**0.0714**	**0.0714**	**0.0000**	**220.9670**	**220.9670**	**0.0201**	**3.7400e-003**	**222.5835**

7.0 Water Detail

7.1 Mitigation Measures Water

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	585.8052	3.0183	0.0755	683.7567
Unmitigated	585.8052	3.0183	0.0755	683.7567

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		**585.8052**	**3.0183**	**0.0755**	**683.7567**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		**585.8052**	**3.0183**	**0.0755**	**683.7567**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	207.8079	12.2811	0.0000	514.8354
Unmitigated	207.8079	12.2811	0.0000	514.8354

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		**207.8079**	**12.2811**	**0.0000**	**514.8354**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		**207.8079**	**12.2811**	**0.0000**	**514.8354**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27

tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2769	46.4588	31.6840	0.0643	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,234.7974	6,234.7974	1.9495	0.0000	6,283.5352
2022	5.3304	38.8967	49.5629	0.1517	9.8688	1.6366	10.7727	3.6558	1.5057	5.1615	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288
2023	4.8957	26.3317	46.7567	0.1472	9.8688	0.7794	10.6482	2.6381	0.7322	3.3702	0.0000	14,807.5269	14,807.5269	1.0250	0.0000	14,833.1521
2024	237.1630	9.5575	15.1043	0.0244	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,361.3989	2,361.3989	0.7177	0.0000	2,379.3421
Maximum	**237.1630**	**46.4588**	**49.5629**	**0.1517**	**18.2675**	**2.0461**	**20.3135**	**9.9840**	**1.8824**	**11.8664**	**0.0000**	**15,251.5674**	**15,251.5674**	**1.9503**	**0.0000**	**15,278.5288**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2769	46.4588	31.6840	0.0643	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,234.7974	6,234.7974	1.9495	0.0000	6,283.5352
2022	5.3304	38.8967	49.5629	0.1517	9.8688	1.6366	10.7727	3.6558	1.5057	5.1615	0.0000	15,251.5674	15,251.5674	1.9503	0.0000	15,278.5288
2023	4.8957	26.3317	46.7567	0.1472	9.8688	0.7794	10.6482	2.6381	0.7322	3.3702	0.0000	14,807.5269	14,807.5269	1.0250	0.0000	14,833.1520
2024	237.1630	9.5575	15.1043	0.0244	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,361.3989	2,361.3989	0.7177	0.0000	2,379.3421
Maximum	**237.1630**	**46.4588**	**49.5629**	**0.1517**	**18.2675**	**2.0461**	**20.3135**	**9.9840**	**1.8824**	**11.8664**	**0.0000**	**15,251.5674**	**15,251.5674**	**1.9503**	**0.0000**	**15,278.5288**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Total	**41.1168**	**67.2262**	**207.5497**	**0.6278**	**45.9592**	**2.4626**	**48.4217**	**12.2950**	**2.4385**	**14.7336**	**0.0000**	**76,811.1816**	**76,811.1816**	**2.8282**	**0.4832**	**77,025.8786**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Total	**41.1168**	**67.2262**	**207.5497**	**0.6278**	**45.9592**	**2.4626**	**48.4217**	**12.2950**	**2.4385**	**14.7336**	**0.0000**	**76,811.1816**	**76,811.1816**	**2.8282**	**0.4832**	**77,025.8786**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.2413	1,292.2413	0.0877		1,294.4337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.1916**	**4.1394**	**1.5644**	**0.0136**	**0.4346**	**0.0139**	**0.4485**	**0.1176**	**0.0133**	**0.1309**		**1,463.0568**	**1,463.0568**	**0.0927**		**1,465.3750**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.2413	1,292.2413	0.0877		1,294.4337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0643	0.0442	0.6042	1.7100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		170.8155	170.8155	5.0300e-003		170.9413
Total	**0.1916**	**4.1394**	**1.5644**	**0.0136**	**0.4346**	**0.0139**	**0.4485**	**0.1176**	**0.0133**	**0.1309**		**1,463.0568**	**1,463.0568**	**0.0927**		**1,465.3750**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.0772**	**0.0530**	**0.7250**	**2.0600e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**204.9786**	**204.9786**	**6.0400e-003**		**205.1296**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0772	0.0530	0.7250	2.0600e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		204.9786	204.9786	6.0400e-003		205.1296
Total	**0.0772**	**0.0530**	**0.7250**	**2.0600e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**204.9786**	**204.9786**	**6.0400e-003**		**205.1296**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	**0.0857**	**0.0589**	**0.8056**	**2.2900e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**227.7540**	**227.7540**	**6.7100e-003**		**227.9217**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0857	0.0589	0.8056	2.2900e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		227.7540	227.7540	6.7100e-003		227.9217
Total	**0.0857**	**0.0589**	**0.8056**	**2.2900e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**227.7540**	**227.7540**	**6.7100e-003**		**227.9217**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	**0.0803**	**0.0532**	**0.7432**	**2.2100e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**219.7425**	**219.7425**	**6.0600e-003**		**219.8941**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	**0.0803**	**0.0532**	**0.7432**	**2.2100e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**219.7425**	**219.7425**	**6.0600e-003**		**219.8941**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.5482	3,896.5482	0.2236		3,902.1384
Worker	3.2162	2.1318	29.7654	0.0883	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,800.6857	8,800.6857	0.2429		8,806.7582
Total	**3.6242**	**15.3350**	**33.1995**	**0.1247**	**9.8688**	**0.0949**	**9.9637**	**2.6381**	**0.0883**	**2.7263**		**12,697.2339**	**12,697.2339**	**0.4665**		**12,708.8966**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.5482	3,896.5482	0.2236		3,902.1384
Worker	3.2162	2.1318	29.7654	0.0883	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,800.6857	8,800.6857	0.2429		8,806.7582
Total	**3.6242**	**15.3350**	**33.1995**	**0.1247**	**9.8688**	**0.0949**	**9.9637**	**2.6381**	**0.0883**	**2.7263**		**12,697.2339**	**12,697.2339**	**0.4665**		**12,708.8966**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747		3,773.8762	3,773.8762	0.1982		3,778.8300
Worker	3.0203	1.9287	27.4113	0.0851	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		8,478.4408	8,478.4408	0.2190		8,483.9160
Total	**3.3229**	**11.9468**	**30.5127**	**0.1203**	**9.8688**	**0.0797**	**9.9485**	**2.6381**	**0.0738**	**2.7118**		**12,252.3170**	**12,252.3170**	**0.4172**		**12,262.7460**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747		3,773.8762	3,773.8762	0.1982		3,778.8300
Worker	3.0203	1.9287	27.4113	0.0851	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		8,478.4408	8,478.4408	0.2190		8,483.9160
Total	**3.3229**	**11.9468**	**30.5127**	**0.1203**	**9.8688**	**0.0797**	**9.9485**	**2.6381**	**0.0738**	**2.7118**		**12,252.3170**	**12,252.3170**	**0.4172**		**12,262.7460**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
Total	**0.0566**	**0.0361**	**0.5133**	**1.5900e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**158.7723**	**158.7723**	**4.1000e-003**		**158.8748**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0566	0.0361	0.5133	1.5900e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		158.7723	158.7723	4.1000e-003		158.8748
Total	**0.0566**	**0.0361**	**0.5133**	**1.5900e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**158.7723**	**158.7723**	**4.1000e-003**		**158.8748**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
Total	**0.0535**	**0.0329**	**0.4785**	**1.5400e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**153.8517**	**153.8517**	**3.7600e-003**		**153.9458**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0535	0.0329	0.4785	1.5400e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		153.8517	153.8517	3.7600e-003		153.9458
Total	**0.0535**	**0.0329**	**0.4785**	**1.5400e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**153.8517**	**153.8517**	**3.7600e-003**		**153.9458**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5707	0.3513	5.1044	0.0165	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866		1,641.0852	1,641.0852	0.0401		1,642.0886
Total	**0.5707**	**0.3513**	**5.1044**	**0.0165**	**1.7884**	**0.0134**	**1.8018**	**0.4743**	**0.0123**	**0.4866**		**1,641.0852**	**1,641.0852**	**0.0401**		**1,642.0886**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.5707	0.3513	5.1044	0.0165	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866		1,641.0852	1,641.0852	0.0401		1,642.0886
Total	**0.5707**	**0.3513**	**5.1044**	**0.0165**	**1.7884**	**0.0134**	**1.8018**	**0.4743**	**0.0123**	**0.4866**		**1,641.0852**	**1,641.0852**	**0.0401**		**1,642.0886**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Unmitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
NaturalGas Unmitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82
tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27

tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2865	46.4651	31.6150	0.0642	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,221.4937	6,221.4937	1.9491	0.0000	6,270.2214
2022	5.7218	38.9024	47.3319	0.1455	9.8688	1.6366	10.7736	3.6558	1.5057	5.1615	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663
2023	5.2705	26.4914	44.5936	0.1413	9.8688	0.7800	10.6488	2.6381	0.7328	3.3708	0.0000	14,210.3424	14,210.3424	1.0230	0.0000	14,235.9160
2024	237.2328	9.5610	15.0611	0.0243	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,352.4178	2,352.4178	0.7175	0.0000	2,370.3550
Maximum	**237.2328**	**46.4651**	**47.3319**	**0.1455**	**18.2675**	**2.0461**	**20.3135**	**9.9840**	**1.8824**	**11.8664**	**0.0000**	**14,630.3099**	**14,630.3099**	**1.9499**	**0.0000**	**14,657.2663**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2865	46.4651	31.6150	0.0642	18.2675	2.0461	20.3135	9.9840	1.8824	11.8664	0.0000	6,221.4937	6,221.4937	1.9491	0.0000	6,270.2214
2022	5.7218	38.9024	47.3319	0.1455	9.8688	1.6366	10.7736	3.6558	1.5057	5.1615	0.0000	14,630.3099	14,630.3099	1.9499	0.0000	14,657.2663
2023	5.2705	26.4914	44.5936	0.1413	9.8688	0.7800	10.6488	2.6381	0.7328	3.3708	0.0000	14,210.3424	14,210.3424	1.0230	0.0000	14,235.9160
2024	237.2328	9.5610	15.0611	0.0243	1.7884	0.4698	1.8628	0.4743	0.4322	0.5476	0.0000	2,352.4178	2,352.4178	0.7175	0.0000	2,370.3550
Maximum	**237.2328**	**46.4651**	**47.3319**	**0.1455**	**18.2675**	**2.0461**	**20.3135**	**9.9840**	**1.8824**	**11.8664**	**0.0000**	**14,630.3099**	**14,630.3099**	**1.9499**	**0.0000**	**14,657.2663**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Total	**40.7912**	**67.7872**	**202.7424**	**0.6043**	**45.9592**	**2.4640**	**48.4231**	**12.2950**	**2.4399**	**14.7349**	**0.0000**	**74,422.3787**	**74,422.3787**	**2.8429**	**0.4832**	**74,637.4417**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Total	**40.7912**	**67.7872**	**202.7424**	**0.6043**	**45.9592**	**2.4640**	**48.4231**	**12.2950**	**2.4399**	**14.7349**	**0.0000**	**74,422.3787**	**74,422.3787**	**2.8429**	**0.4832**	**74,637.4417**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.8555	1,269.8555	0.0908		1,272.1252
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.2019**	**4.1943**	**1.5706**	**0.0133**	**0.4346**	**0.0141**	**0.4487**	**0.1176**	**0.0135**	**0.1311**		**1,430.6932**	**1,430.6932**	**0.0955**		**1,433.0812**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.8555	1,269.8555	0.0908		1,272.1252
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0715	0.0489	0.5524	1.6100e-003	0.1677	1.3500e-003	0.1690	0.0445	1.2500e-003	0.0457		160.8377	160.8377	4.7300e-003		160.9560
Total	**0.2019**	**4.1943**	**1.5706**	**0.0133**	**0.4346**	**0.0141**	**0.4487**	**0.1176**	**0.0135**	**0.1311**		**1,430.6932**	**1,430.6932**	**0.0955**		**1,433.0812**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.0858**	**0.0587**	**0.6629**	**1.9400e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**193.0052**	**193.0052**	**5.6800e-003**		**193.1472**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0858	0.0587	0.6629	1.9400e-003	0.2012	1.6300e-003	0.2028	0.0534	1.5000e-003	0.0549		193.0052	193.0052	5.6800e-003		193.1472
Total	**0.0858**	**0.0587**	**0.6629**	**1.9400e-003**	**0.2012**	**1.6300e-003**	**0.2028**	**0.0534**	**1.5000e-003**	**0.0549**		**193.0052**	**193.0052**	**5.6800e-003**		**193.1472**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	**0.0954**	**0.0652**	**0.7365**	**2.1500e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.4502**	**214.4502**	**6.3100e-003**		**214.6080**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0954	0.0652	0.7365	2.1500e-003	0.2236	1.8100e-003	0.2254	0.0593	1.6600e-003	0.0610		214.4502	214.4502	6.3100e-003		214.6080
Total	**0.0954**	**0.0652**	**0.7365**	**2.1500e-003**	**0.2236**	**1.8100e-003**	**0.2254**	**0.0593**	**1.6600e-003**	**0.0610**		**214.4502**	**214.4502**	**6.3100e-003**		**214.6080**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	**0.0896**	**0.0589**	**0.6784**	**2.0800e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**206.9139**	**206.9139**	**5.7000e-003**		**207.0563**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	**0.0896**	**0.0589**	**0.6784**	**2.0800e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**206.9139**	**206.9139**	**5.7000e-003**		**207.0563**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.0750	3,789.0750	0.2381		3,795.0283
Worker	3.5872	2.3593	27.1680	0.0832	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,286.9013	8,286.9013	0.2282		8,292.6058
Total	**4.0156**	**15.5266**	**30.9685**	**0.1186**	**9.8688**	**0.0957**	**9.9645**	**2.6381**	**0.0891**	**2.7271**		**12,075.9763**	**12,075.9763**	**0.4663**		**12,087.6341**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.0750	3,789.0750	0.2381		3,795.0283
Worker	3.5872	2.3593	27.1680	0.0832	8.9533	0.0701	9.0234	2.3745	0.0646	2.4390		8,286.9013	8,286.9013	0.2282		8,292.6058
Total	**4.0156**	**15.5266**	**30.9685**	**0.1186**	**9.8688**	**0.0957**	**9.9645**	**2.6381**	**0.0891**	**2.7271**		**12,075.9763**	**12,075.9763**	**0.4663**		**12,087.6341**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.4007	3,671.4007	0.2096		3,676.6417
Worker	3.3795	2.1338	24.9725	0.0801	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		7,983.7318	7,983.7318	0.2055		7,988.8683
Total	**3.6978**	**12.1065**	**28.3496**	**0.1144**	**9.8688**	**0.0803**	**9.9491**	**2.6381**	**0.0743**	**2.7124**		**11,655.1325**	**11,655.1325**	**0.4151**		**11,665.5099**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.4007	3,671.4007	0.2096		3,676.6417
Worker	3.3795	2.1338	24.9725	0.0801	8.9533	0.0681	9.0214	2.3745	0.0627	2.4372		7,983.7318	7,983.7318	0.2055		7,988.8683
Total	**3.6978**	**12.1065**	**28.3496**	**0.1144**	**9.8688**	**0.0803**	**9.9491**	**2.6381**	**0.0743**	**2.7124**		**11,655.1325**	**11,655.1325**	**0.4151**		**11,665.5099**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
Total	**0.0633**	**0.0400**	**0.4677**	**1.5000e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**149.5081**	**149.5081**	**3.8500e-003**		**149.6043**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0633	0.0400	0.4677	1.5000e-003	0.1677	1.2800e-003	0.1689	0.0445	1.1700e-003	0.0456		149.5081	149.5081	3.8500e-003		149.6043
Total	**0.0633**	**0.0400**	**0.4677**	**1.5000e-003**	**0.1677**	**1.2800e-003**	**0.1689**	**0.0445**	**1.1700e-003**	**0.0456**		**149.5081**	**149.5081**	**3.8500e-003**		**149.6043**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
Total	**0.0601**	**0.0364**	**0.4354**	**1.4500e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**144.8706**	**144.8706**	**3.5300e-003**		**144.9587**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0601	0.0364	0.4354	1.4500e-003	0.1677	1.2600e-003	0.1689	0.0445	1.1600e-003	0.0456		144.8706	144.8706	3.5300e-003		144.9587
Total	**0.0601**	**0.0364**	**0.4354**	**1.4500e-003**	**0.1677**	**1.2600e-003**	**0.1689**	**0.0445**	**1.1600e-003**	**0.0456**		**144.8706**	**144.8706**	**3.5300e-003**		**144.9587**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6406	0.3886	4.6439	0.0155	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866		1,545.2860	1,545.2860	0.0376		1,546.2262
Total	**0.6406**	**0.3886**	**4.6439**	**0.0155**	**1.7884**	**0.0134**	**1.8018**	**0.4743**	**0.0123**	**0.4866**		**1,545.2860**	**1,545.2860**	**0.0376**		**1,546.2262**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.6406	0.3886	4.6439	0.0155	1.7884	0.0134	1.8018	0.4743	0.0123	0.4866		1,545.2860	1,545.2860	0.0376		1,546.2262
Total	**0.6406**	**0.3886**	**4.6439**	**0.0155**	**1.7884**	**0.0134**	**1.8018**	**0.4743**	**0.0123**	**0.4866**		**1,545.2860**	**1,545.2860**	**0.0376**		**1,546.2262**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Unmitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
NaturalGas Unmitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

6.2 Area by SubCategory

Mitigated

SubCategory	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
	lb/day										lb/day					
Architectural Coating	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27
tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1704	1.8234	1.1577	2.3800e-003	0.4141	0.0817	0.4958	0.1788	0.0754	0.2542	0.0000	210.7654	210.7654	0.0600	0.0000	212.2661
2022	0.5865	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6554	1,418.6554	0.1215	0.0000	1,421.6925
2023	0.5190	3.2850	4.7678	0.0147	0.8497	0.0971	0.9468	0.2283	0.0912	0.3195	0.0000	1,342.4412	1,342.4412	0.1115	0.0000	1,345.2291
2024	4.1592	0.1313	0.2557	5.0000e-004	0.0221	6.3900e-003	0.0285	5.8700e-003	5.9700e-003	0.0118	0.0000	44.6355	44.6355	7.8300e-003	0.0000	44.8311
Maximum	**4.1592**	**4.0240**	**5.1546**	**0.0155**	**0.9509**	**0.1175**	**1.0683**	**0.2518**	**0.1103**	**0.3621**	**0.0000**	**1,418.6554**	**1,418.6554**	**0.1215**	**0.0000**	**1,421.6925**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2021	0.1704	1.8234	1.1577	2.3800e-003	0.4141	0.0817	0.4958	0.1788	0.0754	0.2542	0.0000	210.7651	210.7651	0.0600	0.0000	212.2658
2022	0.5865	4.0240	5.1546	0.0155	0.9509	0.1175	1.0683	0.2518	0.1103	0.3621	0.0000	1,418.6550	1,418.6550	0.1215	0.0000	1,421.6921
2023	0.5190	3.2850	4.7678	0.0147	0.8497	0.0971	0.9468	0.2283	0.0912	0.3195	0.0000	1,342.4409	1,342.4409	0.1115	0.0000	1,345.2287
2024	4.1592	0.1313	0.2557	5.0000e-004	0.0221	6.3900e-003	0.0285	5.8700e-003	5.9700e-003	0.0118	0.0000	44.6354	44.6354	7.8300e-003	0.0000	44.8311
Maximum	**4.1592**	**4.0240**	**5.1546**	**0.0155**	**0.9509**	**0.1175**	**1.0683**	**0.2518**	**0.1103**	**0.3621**	**0.0000**	**1,418.6550**	**1,418.6550**	**0.1215**	**0.0000**	**1,421.6921**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**9-1-2021**	**11-30-2021**	1.4091	1.4091
2	**12-1-2021**	**2-28-2022**	1.3329	1.3329
3	**3-1-2022**	**5-31-2022**	1.1499	1.1499
4	**6-1-2022**	**8-31-2022**	1.1457	1.1457
5	**9-1-2022**	**11-30-2022**	1.1415	1.1415
6	**12-1-2022**	**2-28-2023**	1.0278	1.0278
7	**3-1-2023**	**5-31-2023**	0.9868	0.9868
8	**6-1-2023**	**8-31-2023**	0.9831	0.9831

9	**9-1-2023**	**11-30-2023**	0.9798	0.9798
10	**12-1-2023**	**2-29-2024**	2.8757	2.8757
11	**3-1-2024**	**5-31-2024**	1.6188	1.6188
		Highest	2.8757	2.8757

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3,896.0732	3,896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	**6.8692**	**9.5223**	**30.3407**	**0.0914**	**7.7979**	**0.2260**	**8.0240**	**2.0895**	**0.2219**	**2.3114**	**236.9712**	**12,294.1807**	**12,531.1519**	**15.7904**	**0.1260**	**12,963.4751**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Energy	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	3,896.0732	3,896.0732	0.1303	0.0468	3,913.2833
Mobile	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Waste						0.0000	0.0000		0.0000	0.0000	207.8079	0.0000	207.8079	12.2811	0.0000	514.8354
Water						0.0000	0.0000		0.0000	0.0000	29.1632	556.6420	585.8052	3.0183	0.0755	683.7567
Total	**6.8692**	**9.5223**	**30.3407**	**0.0914**	**7.7979**	**0.2260**	**8.0240**	**2.0895**	**0.2219**	**2.3114**	**236.9712**	**12,294.1807**	**12,531.1519**	**15.7904**	**0.1260**	**12,963.4751**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0012	51.0012	0.0144	0.0000	51.3601
Total	**0.0475**	**0.4716**	**0.3235**	**5.8000e-004**	**0.0496**	**0.0233**	**0.0729**	**7.5100e-003**	**0.0216**	**0.0291**	**0.0000**	**51.0012**	**51.0012**	**0.0144**	**0.0000**	**51.3601**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	5.3000e-004	6.0900e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5281	1.5281	5.0000e-005	0.0000	1.5293
Total	**2.6500e-003**	**0.0639**	**0.0209**	**2.0000e-004**	**5.6200e-003**	**2.0000e-004**	**5.8200e-003**	**1.5300e-003**	**1.9000e-004**	**1.7200e-003**	**0.0000**	**18.9847**	**18.9847**	**1.2600e-003**	**0.0000**	**19.0161**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0496	0.0000	0.0496	7.5100e-003	0.0000	7.5100e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0475	0.4716	0.3235	5.8000e-004		0.0233	0.0233		0.0216	0.0216	0.0000	51.0011	51.0011	0.0144	0.0000	51.3600
Total	**0.0475**	**0.4716**	**0.3235**	**5.8000e-004**	**0.0496**	**0.0233**	**0.0729**	**7.5100e-003**	**0.0216**	**0.0291**	**0.0000**	**51.0011**	**51.0011**	**0.0144**	**0.0000**	**51.3600**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9300e-003	0.0634	0.0148	1.8000e-004	3.9400e-003	1.9000e-004	4.1300e-003	1.0800e-003	1.8000e-004	1.2600e-003	0.0000	17.4566	17.4566	1.2100e-003	0.0000	17.4869
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.2000e-004	5.3000e-004	6.0900e-003	2.0000e-005	1.6800e-003	1.0000e-005	1.6900e-003	4.5000e-004	1.0000e-005	4.6000e-004	0.0000	1.5281	1.5281	5.0000e-005	0.0000	1.5293
Total	**2.6500e-003**	**0.0639**	**0.0209**	**2.0000e-004**	**5.6200e-003**	**2.0000e-004**	**5.8200e-003**	**1.5300e-003**	**1.9000e-004**	**1.7200e-003**	**0.0000**	**18.9847**	**18.9847**	**1.2600e-003**	**0.0000**	**19.0161**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7061
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7061**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234
Total	**5.8000e-004**	**4.3000e-004**	**4.8700e-003**	**1.0000e-005**	**1.3400e-003**	**1.0000e-005**	**1.3500e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2225**	**1.2225**	**4.0000e-005**	**0.0000**	**1.2234**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1807	0.0000	0.1807	0.0993	0.0000	0.0993	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0389	0.4050	0.2115	3.8000e-004		0.0204	0.0204		0.0188	0.0188	0.0000	33.4357	33.4357	0.0108	0.0000	33.7060
Total	**0.0389**	**0.4050**	**0.2115**	**3.8000e-004**	**0.1807**	**0.0204**	**0.2011**	**0.0993**	**0.0188**	**0.1181**	**0.0000**	**33.4357**	**33.4357**	**0.0108**	**0.0000**	**33.7060**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	5.8000e-004	4.3000e-004	4.8700e-003	1.0000e-005	1.3400e-003	1.0000e-005	1.3500e-003	3.6000e-004	1.0000e-005	3.7000e-004	0.0000	1.2225	1.2225	4.0000e-005	0.0000	1.2234
Total	**5.8000e-004**	**4.3000e-004**	**4.8700e-003**	**1.0000e-005**	**1.3400e-003**	**1.0000e-005**	**1.3500e-003**	**3.6000e-004**	**1.0000e-005**	**3.7000e-004**	**0.0000**	**1.2225**	**1.2225**	**4.0000e-005**	**0.0000**	**1.2234**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5405	103.5405	0.0335	0.0000	104.3776
Total	**0.0796**	**0.8816**	**0.5867**	**1.1800e-003**	**0.1741**	**0.0377**	**0.2118**	**0.0693**	**0.0347**	**0.1040**	**0.0000**	**103.5405**	**103.5405**	**0.0335**	**0.0000**	**104.3776**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	2.5828
Total	**1.2200e-003**	**9.0000e-004**	**0.0103**	**3.0000e-005**	**2.8300e-003**	**2.0000e-005**	**2.8600e-003**	**7.5000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.5808**	**2.5808**	**8.0000e-005**	**0.0000**	**2.5828**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1741	0.0000	0.1741	0.0693	0.0000	0.0693	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0796	0.8816	0.5867	1.1800e-003		0.0377	0.0377		0.0347	0.0347	0.0000	103.5403	103.5403	0.0335	0.0000	104.3775
Total	**0.0796**	**0.8816**	**0.5867**	**1.1800e-003**	**0.1741**	**0.0377**	**0.2118**	**0.0693**	**0.0347**	**0.1040**	**0.0000**	**103.5403**	**103.5403**	**0.0335**	**0.0000**	**104.3775**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.2200e-003	9.0000e-004	0.0103	3.0000e-005	2.8300e-003	2.0000e-005	2.8600e-003	7.5000e-004	2.0000e-005	7.8000e-004	0.0000	2.5808	2.5808	8.0000e-005	0.0000	2.5828
Total	**1.2200e-003**	**9.0000e-004**	**0.0103**	**3.0000e-005**	**2.8300e-003**	**2.0000e-005**	**2.8600e-003**	**7.5000e-004**	**2.0000e-005**	**7.8000e-004**	**0.0000**	**2.5808**	**2.5808**	**8.0000e-005**	**0.0000**	**2.5828**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004		5.7200e-003	5.7200e-003		5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	**0.0127**	**0.1360**	**0.1017**	**2.2000e-004**	**0.0807**	**5.7200e-003**	**0.0865**	**0.0180**	**5.2600e-003**	**0.0233**	**0.0000**	**19.0871**	**19.0871**	**6.1700e-003**	**0.0000**	**19.2414**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590
Total	**2.1000e-004**	**1.5000e-004**	**1.7400e-003**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**5.3000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.4587**	**0.4587**	**1.0000e-005**	**0.0000**	**0.4590**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0807	0.0000	0.0807	0.0180	0.0000	0.0180	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0127	0.1360	0.1017	2.2000e-004		5.7200e-003	5.7200e-003		5.2600e-003	5.2600e-003	0.0000	19.0871	19.0871	6.1700e-003	0.0000	19.2414
Total	**0.0127**	**0.1360**	**0.1017**	**2.2000e-004**	**0.0807**	**5.7200e-003**	**0.0865**	**0.0180**	**5.2600e-003**	**0.0233**	**0.0000**	**19.0871**	**19.0871**	**6.1700e-003**	**0.0000**	**19.2414**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.1000e-004	1.5000e-004	1.7400e-003	1.0000e-005	5.2000e-004	0.0000	5.3000e-004	1.4000e-004	0.0000	1.4000e-004	0.0000	0.4587	0.4587	1.0000e-005	0.0000	0.4590
Total	**2.1000e-004**	**1.5000e-004**	**1.7400e-003**	**1.0000e-005**	**5.2000e-004**	**0.0000**	**5.3000e-004**	**1.4000e-004**	**0.0000**	**1.4000e-004**	**0.0000**	**0.4587**	**0.4587**	**1.0000e-005**	**0.0000**	**0.4590**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1324	293.1324	0.0702	0.0000	294.8881
Total	**0.2158**	**1.9754**	**2.0700**	**3.4100e-003**		**0.1023**	**0.1023**		**0.0963**	**0.0963**	**0.0000**	**293.1324**	**293.1324**	**0.0702**	**0.0000**	**294.8881**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.3051	0.2164	2.5233	7.3500e-003	0.7557	6.2300e-003	0.7619	0.2007	5.7400e-003	0.2065	0.0000	663.9936	663.9936	0.0187	0.0000	664.4604
Total	**0.3578**	**1.9125**	**2.9812**	**0.0119**	**0.8696**	**9.4100e-003**	**0.8790**	**0.2336**	**8.7800e-003**	**0.2424**	**0.0000**	**1,105.9771**	**1,105.9771**	**0.0451**	**0.0000**	**1,107.1039**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2158	1.9754	2.0700	3.4100e-003		0.1023	0.1023		0.0963	0.0963	0.0000	293.1321	293.1321	0.0702	0.0000	294.8877
Total	**0.2158**	**1.9754**	**2.0700**	**3.4100e-003**		**0.1023**	**0.1023**		**0.0963**	**0.0963**	**0.0000**	**293.1321**	**293.1321**	**0.0702**	**0.0000**	**294.8877**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0527	1.6961	0.4580	4.5500e-003	0.1140	3.1800e-003	0.1171	0.0329	3.0400e-003	0.0359	0.0000	441.9835	441.9835	0.0264	0.0000	442.6435
Worker	0.3051	0.2164	2.5233	7.3500e-003	0.7557	6.2300e-003	0.7619	0.2007	5.7400e-003	0.2065	0.0000	663.9936	663.9936	0.0187	0.0000	664.4604
Total	**0.3578**	**1.9125**	**2.9812**	**0.0119**	**0.8696**	**9.4100e-003**	**0.8790**	**0.2336**	**8.7800e-003**	**0.2424**	**0.0000**	**1,105.9771**	**1,105.9771**	**0.0451**	**0.0000**	**1,107.1039**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2789	286.2789	0.0681	0.0000	287.9814
Total	**0.1942**	**1.7765**	**2.0061**	**3.3300e-003**		**0.0864**	**0.0864**		**0.0813**	**0.0813**	**0.0000**	**286.2789**	**286.2789**	**0.0681**	**0.0000**	**287.9814**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.2795	0.1910	2.2635	6.9100e-003	0.7377	5.9100e-003	0.7436	0.1960	5.4500e-003	0.2014	0.0000	624.5363	624.5363	0.0164	0.0000	624.9466
Total	**0.3177**	**1.4420**	**2.6646**	**0.0112**	**0.8490**	**7.3700e-003**	**0.8564**	**0.2281**	**6.8500e-003**	**0.2349**	**0.0000**	**1,042.5294**	**1,042.5294**	**0.0392**	**0.0000**	**1,043.5090**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1942	1.7765	2.0061	3.3300e-003		0.0864	0.0864		0.0813	0.0813	0.0000	286.2785	286.2785	0.0681	0.0000	287.9811
Total	**0.1942**	**1.7765**	**2.0061**	**3.3300e-003**		**0.0864**	**0.0864**		**0.0813**	**0.0813**	**0.0000**	**286.2785**	**286.2785**	**0.0681**	**0.0000**	**287.9811**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0382	1.2511	0.4011	4.3000e-003	0.1113	1.4600e-003	0.1127	0.0321	1.4000e-003	0.0335	0.0000	417.9930	417.9930	0.0228	0.0000	418.5624
Worker	0.2795	0.1910	2.2635	6.9100e-003	0.7377	5.9100e-003	0.7436	0.1960	5.4500e-003	0.2014	0.0000	624.5363	624.5363	0.0164	0.0000	624.9466
Total	**0.3177**	**1.4420**	**2.6646**	**0.0112**	**0.8490**	**7.3700e-003**	**0.8564**	**0.2281**	**6.8500e-003**	**0.2349**	**0.0000**	**1,042.5294**	**1,042.5294**	**0.0392**	**0.0000**	**1,043.5090**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7100e-003**	**0.0663**	**0.0948**	**1.5000e-004**		**3.3200e-003**	**3.3200e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**13.0175**	**13.0175**	**4.2100e-003**	**0.0000**	**13.1227**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.2300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6156	0.6156	2.0000e-005	0.0000	0.6160
Total	**2.8000e-004**	**1.9000e-004**	**2.2300e-003**	**1.0000e-005**	**7.3000e-004**	**1.0000e-005**	**7.3000e-004**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**0.0000**	**0.6156**	**0.6156**	**2.0000e-005**	**0.0000**	**0.6160**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	6.7100e-003	0.0663	0.0948	1.5000e-004		3.3200e-003	3.3200e-003		3.0500e-003	3.0500e-003	0.0000	13.0175	13.0175	4.2100e-003	0.0000	13.1227
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**6.7100e-003**	**0.0663**	**0.0948**	**1.5000e-004**		**3.3200e-003**	**3.3200e-003**		**3.0500e-003**	**3.0500e-003**	**0.0000**	**13.0175**	**13.0175**	**4.2100e-003**	**0.0000**	**13.1227**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.8000e-004	1.9000e-004	2.2300e-003	1.0000e-005	7.3000e-004	1.0000e-005	7.3000e-004	1.9000e-004	1.0000e-005	2.0000e-004	0.0000	0.6156	0.6156	2.0000e-005	0.0000	0.6160
Total	**2.8000e-004**	**1.9000e-004**	**2.2300e-003**	**1.0000e-005**	**7.3000e-004**	**1.0000e-005**	**7.3000e-004**	**1.9000e-004**	**1.0000e-005**	**2.0000e-004**	**0.0000**	**0.6156**	**0.6156**	**2.0000e-005**	**0.0000**	**0.6160**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.1048**	**0.1609**	**2.5000e-004**		**5.1500e-003**	**5.1500e-003**		**4.7400e-003**	**4.7400e-003**	**0.0000**	**22.0292**	**22.0292**	**7.1200e-003**	**0.0000**	**22.2073**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.5100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0094	1.0094	3.0000e-005	0.0000	1.0100
Total	**4.4000e-004**	**2.9000e-004**	**3.5100e-003**	**1.0000e-005**	**1.2300e-003**	**1.0000e-005**	**1.2400e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.0094**	**1.0094**	**3.0000e-005**	**0.0000**	**1.0100**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0109	0.1048	0.1609	2.5000e-004		5.1500e-003	5.1500e-003		4.7400e-003	4.7400e-003	0.0000	22.0292	22.0292	7.1200e-003	0.0000	22.2073
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0109**	**0.1048**	**0.1609**	**2.5000e-004**		**5.1500e-003**	**5.1500e-003**		**4.7400e-003**	**4.7400e-003**	**0.0000**	**22.0292**	**22.0292**	**7.1200e-003**	**0.0000**	**22.2073**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	4.4000e-004	2.9000e-004	3.5100e-003	1.0000e-005	1.2300e-003	1.0000e-005	1.2400e-003	3.3000e-004	1.0000e-005	3.4000e-004	0.0000	1.0094	1.0094	3.0000e-005	0.0000	1.0100
Total	**4.4000e-004**	**2.9000e-004**	**3.5100e-003**	**1.0000e-005**	**1.2300e-003**	**1.0000e-005**	**1.2400e-003**	**3.3000e-004**	**1.0000e-005**	**3.4000e-004**	**0.0000**	**1.0094**	**1.0094**	**3.0000e-005**	**0.0000**	**1.0100**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**4.1404**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4800e-003	4.9300e-003	0.0596	1.9000e-004	0.0209	1.6000e-004	0.0211	5.5500e-003	1.5000e-004	5.7000e-003	0.0000	17.1287	17.1287	4.3000e-004	0.0000	17.1394
Total	**7.4800e-003**	**4.9300e-003**	**0.0596**	**1.9000e-004**	**0.0209**	**1.6000e-004**	**0.0211**	**5.5500e-003**	**1.5000e-004**	**5.7000e-003**	**0.0000**	**17.1287**	**17.1287**	**4.3000e-004**	**0.0000**	**17.1394**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	4.1372					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	3.1600e-003	0.0213	0.0317	5.0000e-005		1.0700e-003	1.0700e-003		1.0700e-003	1.0700e-003	0.0000	4.4682	4.4682	2.5000e-004	0.0000	4.4745
Total	**4.1404**	**0.0213**	**0.0317**	**5.0000e-005**		**1.0700e-003**	**1.0700e-003**		**1.0700e-003**	**1.0700e-003**	**0.0000**	**4.4682**	**4.4682**	**2.5000e-004**	**0.0000**	**4.4745**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	7.4800e-003	4.9300e-003	0.0596	1.9000e-004	0.0209	1.6000e-004	0.0211	5.5500e-003	1.5000e-004	5.7000e-003	0.0000	17.1287	17.1287	4.3000e-004	0.0000	17.1394
Total	**7.4800e-003**	**4.9300e-003**	**0.0596**	**1.9000e-004**	**0.0209**	**1.6000e-004**	**0.0211**	**5.5500e-003**	**1.5000e-004**	**5.7000e-003**	**0.0000**	**17.1287**	**17.1287**	**4.3000e-004**	**0.0000**	**17.1394**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162
Unmitigated	1.5857	7.9962	19.1834	0.0821	7.7979	0.0580	7.8559	2.0895	0.0539	2.1434	0.0000	7,620.4986	7,620.4986	0.3407	0.0000	7,629.0162

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	2,512.6465	2,512.6465	0.1037	0.0215	2,521.6356
NaturalGas Mitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478
NaturalGas Unmitigated	0.1398	1.2312	0.7770	7.6200e-003		0.0966	0.0966		0.0966	0.0966	0.0000	1,383.4267	1,383.4267	0.0265	0.0254	1,391.6478

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		**0.1398**	**1.2312**	**0.7770**	**7.6200e-003**		**0.0966**	**0.0966**		**0.0966**	**0.0966**	**0.0000**	**1,383.4268**	**1,383.4268**	**0.0265**	**0.0254**	**1,391.6478**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
Apartments Low Rise	408494	2.2000e-003	0.0188	8.0100e-003	1.2000e-004		1.5200e-003	1.5200e-003		1.5200e-003	1.5200e-003	0.0000	21.7988	21.7988	4.2000e-004	4.0000e-004	21.9284
Apartments Mid Rise	1.30613e+007	0.0704	0.6018	0.2561	3.8400e-003		0.0487	0.0487		0.0487	0.0487	0.0000	696.9989	696.9989	0.0134	0.0128	701.1408
General Office Building	468450	2.5300e-003	0.0230	0.0193	1.4000e-004		1.7500e-003	1.7500e-003		1.7500e-003	1.7500e-003	0.0000	24.9983	24.9983	4.8000e-004	4.6000e-004	25.1468
High Turnover (Sit Down Restaurant)	8.30736e+006	0.0448	0.4072	0.3421	2.4400e-003		0.0310	0.0310		0.0310	0.0310	0.0000	443.3124	443.3124	8.5000e-003	8.1300e-003	445.9468
Hotel	1.74095e+006	9.3900e-003	0.0853	0.0717	5.1000e-004		6.4900e-003	6.4900e-003		6.4900e-003	6.4900e-003	0.0000	92.9036	92.9036	1.7800e-003	1.7000e-003	93.4557
Quality Restaurant	1.84608e+006	9.9500e-003	0.0905	0.0760	5.4000e-004		6.8800e-003	6.8800e-003		6.8800e-003	6.8800e-003	0.0000	98.5139	98.5139	1.8900e-003	1.8100e-003	99.0993
Regional Shopping Center	91840	5.0000e-004	4.5000e-003	3.7800e-003	3.0000e-005		3.4000e-004	3.4000e-004		3.4000e-004	3.4000e-004	0.0000	4.9009	4.9009	9.0000e-005	9.0000e-005	4.9301
Total		**0.1398**	**1.2312**	**0.7770**	**7.6200e-003**		**0.0966**	**0.0966**		**0.0966**	**0.0966**	**0.0000**	**1,383.4268**	**1,383.4268**	**0.0265**	**0.0254**	**1,391.6478**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		**2,512.6465**	**0.1037**	**0.0215**	**2,521.6356**

5.3 Energy by Land Use - Electricity

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
Apartments Low Rise	106010	33.7770	1.3900e-003	2.9000e-004	33.8978
Apartments Mid Rise	3.94697e+006	1,257.5879	0.0519	0.0107	1,262.0869
General Office Building	584550	186.2502	7.6900e-003	1.5900e-003	186.9165
High Turnover (Sit Down Restaurant)	1.58904e+006	506.3022	0.0209	4.3200e-003	508.1135
Hotel	550308	175.3399	7.2400e-003	1.5000e-003	175.9672
Quality Restaurant	353120	112.5116	4.6500e-003	9.6000e-004	112.9141
Regional Shopping Center	756000	240.8778	9.9400e-003	2.0600e-003	241.7395
Total		**2,512.6465**	**0.1037**	**0.0215**	**2,521.6356**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835
Unmitigated	5.1437	0.2950	10.3804	1.6700e-003		0.0714	0.0714		0.0714	0.0714	0.0000	220.9670	220.9670	0.0201	3.7400e-003	222.5835

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	**5.1437**	**0.2950**	**10.3804**	**1.6600e-003**		**0.0714**	**0.0714**		**0.0714**	**0.0714**	**0.0000**	**220.9670**	**220.9670**	**0.0201**	**3.7400e-003**	**222.5835**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.4137					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	4.3998					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Hearth	0.0206	0.1763	0.0750	1.1200e-003		0.0143	0.0143		0.0143	0.0143	0.0000	204.1166	204.1166	3.9100e-003	3.7400e-003	205.3295
Landscaping	0.3096	0.1187	10.3054	5.4000e-004		0.0572	0.0572		0.0572	0.0572	0.0000	16.8504	16.8504	0.0161	0.0000	17.2540
Total	**5.1437**	**0.2950**	**10.3804**	**1.6600e-003**		**0.0714**	**0.0714**		**0.0714**	**0.0714**	**0.0000**	**220.9670**	**220.9670**	**0.0201**	**3.7400e-003**	**222.5835**

7.0 Water Detail

7.1 Mitigation Measures Water

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Annual

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	585.8052	3.0183	0.0755	683.7567
Unmitigated	585.8052	3.0183	0.0755	683.7567

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		**585.8052**	**3.0183**	**0.0755**	**683.7567**

7.2 Water by Land Use

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
Apartments Low Rise	1.62885 / 1.02688	10.9095	0.0535	1.3400e-003	12.6471
Apartments Mid Rise	63.5252 / 40.0485	425.4719	2.0867	0.0523	493.2363
General Office Building	7.99802 / 4.90201	53.0719	0.2627	6.5900e-003	61.6019
High Turnover (Sit Down Restaurant)	10.9272 / 0.697482	51.2702	0.3580	8.8200e-003	62.8482
Hotel	1.26834 / 0.140927	6.1633	0.0416	1.0300e-003	7.5079
Quality Restaurant	2.42827 / 0.154996	11.3934	0.0796	1.9600e-003	13.9663
Regional Shopping Center	4.14806 / 2.54236	27.5250	0.1363	3.4200e-003	31.9490
Total		**585.8052**	**3.0183**	**0.0755**	**683.7567**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	207.8079	12.2811	0.0000	514.8354
Unmitigated	207.8079	12.2811	0.0000	514.8354

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		**207.8079**	**12.2811**	**0.0000**	**514.8354**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
Apartments Low Rise	11.5	2.3344	0.1380	0.0000	5.7834
Apartments Mid Rise	448.5	91.0415	5.3804	0.0000	225.5513
General Office Building	41.85	8.4952	0.5021	0.0000	21.0464
High Turnover (Sit Down Restaurant)	428.4	86.9613	5.1393	0.0000	215.4430
Hotel	27.38	5.5579	0.3285	0.0000	13.7694
Quality Restaurant	7.3	1.4818	0.0876	0.0000	3.6712
Regional Shopping Center	58.8	11.9359	0.7054	0.0000	29.5706
Total		**207.8079**	**12.2811**	**0.0000**	**514.8354**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27
tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2561	46.4415	31.4494	0.0636	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,163.4166	6,163.4166	1.9475	0.0000	6,212.1039
2022	4.5441	38.8811	40.8776	0.1240	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707
2023	4.1534	25.7658	38.7457	0.1206	7.0088	0.7592	7.7679	1.8799	0.7136	2.5935	0.0000	12,150.4890	12,150.4890	0.9589	0.0000	12,174.4615
2024	237.0219	9.5478	14.9642	0.0239	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,313.1808	2,313.1808	0.7166	0.0000	2,331.0956
Maximum	**237.0219**	**46.4415**	**40.8776**	**0.1240**	**18.2032**	**2.0456**	**20.2488**	**9.9670**	**1.8820**	**11.8490**	**0.0000**	**12,493.4403**	**12,493.4403**	**1.9485**	**0.0000**	**12,518.5707**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2561	46.4415	31.4494	0.0636	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,163.4166	6,163.4166	1.9475	0.0000	6,212.1039
2022	4.5441	38.8811	40.8776	0.1240	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,493.4403	12,493.4403	1.9485	0.0000	12,518.5707
2023	4.1534	25.7658	38.7457	0.1206	7.0088	0.7592	7.7679	1.8799	0.7136	2.5935	0.0000	12,150.4890	12,150.4890	0.9589	0.0000	12,174.4615
2024	237.0219	9.5478	14.9642	0.0239	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,313.1808	2,313.1808	0.7166	0.0000	2,331.0955
Maximum	**237.0219**	**46.4415**	**40.8776**	**0.1240**	**18.2032**	**2.0456**	**20.2488**	**9.9670**	**1.8820**	**11.8490**	**0.0000**	**12,493.4403**	**12,493.4403**	**1.9485**	**0.0000**	**12,518.5707**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Total	**41.1168**	**67.2262**	**207.5497**	**0.6278**	**45.9592**	**2.4626**	**48.4217**	**12.2950**	**2.4385**	**14.7336**	**0.0000**	**76,811.1816**	**76,811.1816**	**2.8282**	**0.4832**	**77,025.8786**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Total	**41.1168**	**67.2262**	**207.5497**	**0.6278**	**45.9592**	**2.4626**	**48.4217**	**12.2950**	**2.4385**	**14.7336**	**0.0000**	**76,811.1816**	**76,811.1816**	**2.8282**	**0.4832**	**77,025.8786**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.2413	1,292.2413	0.0877		1,294.4337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0313	0.4282	1.1800e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		117.2799	117.2799	3.5200e-003		117.3678
Total	**0.1760**	**4.1265**	**1.3884**	**0.0131**	**0.3810**	**0.0135**	**0.3946**	**0.1034**	**0.0129**	**0.1163**		**1,409.5212**	**1,409.5212**	**0.0912**		**1,411.8015**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1273	4.0952	0.9602	0.0119	0.2669	0.0126	0.2795	0.0732	0.0120	0.0852		1,292.2413	1,292.2413	0.0877		1,294.4337
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0487	0.0313	0.4282	1.1800e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		117.2799	117.2799	3.5200e-003		117.3678
Total	**0.1760**	**4.1265**	**1.3884**	**0.0131**	**0.3810**	**0.0135**	**0.3946**	**0.1034**	**0.0129**	**0.1163**		**1,409.5212**	**1,409.5212**	**0.0912**		**1,411.8015**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		140.7359	140.7359	4.2200e-003		140.8414
Total	**0.0584**	**0.0375**	**0.5139**	**1.4100e-003**	**0.1369**	**1.1400e-003**	**0.1381**	**0.0363**	**1.0500e-003**	**0.0374**		**140.7359**	**140.7359**	**4.2200e-003**		**140.8414**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0584	0.0375	0.5139	1.4100e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		140.7359	140.7359	4.2200e-003		140.8414
Total	**0.0584**	**0.0375**	**0.5139**	**1.4100e-003**	**0.1369**	**1.1400e-003**	**0.1381**	**0.0363**	**1.0500e-003**	**0.0374**		**140.7359**	**140.7359**	**4.2200e-003**		**140.8414**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		156.3732	156.3732	4.6900e-003		156.4904
Total	**0.0649**	**0.0417**	**0.5710**	**1.5700e-003**	**0.1521**	**1.2700e-003**	**0.1534**	**0.0404**	**1.1700e-003**	**0.0415**		**156.3732**	**156.3732**	**4.6900e-003**		**156.4904**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0649	0.0417	0.5710	1.5700e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		156.3732	156.3732	4.6900e-003		156.4904
Total	**0.0649**	**0.0417**	**0.5710**	**1.5700e-003**	**0.1521**	**1.2700e-003**	**0.1534**	**0.0404**	**1.1700e-003**	**0.0415**		**156.3732**	**156.3732**	**4.6900e-003**		**156.4904**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0376	0.5263	1.5100e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415		150.8754	150.8754	4.2400e-003		150.9813
Total	**0.0607**	**0.0376**	**0.5263**	**1.5100e-003**	**0.1521**	**1.2300e-003**	**0.1534**	**0.0404**	**1.1300e-003**	**0.0415**		**150.8754**	**150.8754**	**4.2400e-003**		**150.9813**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0607	0.0376	0.5263	1.5100e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415		150.8754	150.8754	4.2400e-003		150.9813
Total	**0.0607**	**0.0376**	**0.5263**	**1.5100e-003**	**0.1521**	**1.2300e-003**	**0.1534**	**0.0404**	**1.1300e-003**	**0.0415**		**150.8754**	**150.8754**	**4.2400e-003**		**150.9813**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.5482	3,896.5482	0.2236		3,902.1384
Worker	2.4299	1.5074	21.0801	0.0607	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		6,042.5585	6,042.5585	0.1697		6,046.8000
Total	**2.8378**	**14.7106**	**24.5142**	**0.0971**	**7.0087**	**0.0741**	**7.0828**	**1.8799**	**0.0691**	**1.9490**		**9,939.1067**	**9,939.1067**	**0.3933**		**9,948.9384**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4079	13.2032	3.4341	0.0364	0.9155	0.0248	0.9404	0.2636	0.0237	0.2873		3,896.5482	3,896.5482	0.2236		3,902.1384
Worker	2.4299	1.5074	21.0801	0.0607	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		6,042.5585	6,042.5585	0.1697		6,046.8000
Total	**2.8378**	**14.7106**	**24.5142**	**0.0971**	**7.0087**	**0.0741**	**7.0828**	**1.8799**	**0.0691**	**1.9490**		**9,939.1067**	**9,939.1067**	**0.3933**		**9,948.9384**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747		3,773.8762	3,773.8762	0.1982		3,778.8300
Worker	2.2780	1.3628	19.4002	0.0584	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,821.4028	5,821.4028	0.1529		5,825.2254
Total	**2.5807**	**11.3809**	**22.5017**	**0.0936**	**7.0088**	**0.0595**	**7.0682**	**1.8799**	**0.0552**	**1.9350**		**9,595.2790**	**9,595.2790**	**0.3511**		**9,604.0554**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3027	10.0181	3.1014	0.0352	0.9156	0.0116	0.9271	0.2636	0.0111	0.2747		3,773.8762	3,773.8762	0.1982		3,778.8300
Worker	2.2780	1.3628	19.4002	0.0584	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,821.4028	5,821.4028	0.1529		5,825.2254
Total	**2.5807**	**11.3809**	**22.5017**	**0.0936**	**7.0088**	**0.0595**	**7.0682**	**1.8799**	**0.0552**	**1.9350**		**9,595.2790**	**9,595.2790**	**0.3511**		**9,604.0554**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0427	0.0255	0.3633	1.0900e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311		109.0150	109.0150	2.8600e-003		109.0866
Total	**0.0427**	**0.0255**	**0.3633**	**1.0900e-003**	**0.1141**	**9.0000e-004**	**0.1150**	**0.0303**	**8.3000e-004**	**0.0311**		**109.0150**	**109.0150**	**2.8600e-003**		**109.0866**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0427	0.0255	0.3633	1.0900e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311		109.0150	109.0150	2.8600e-003		109.0866
Total	**0.0427**	**0.0255**	**0.3633**	**1.0900e-003**	**0.1141**	**9.0000e-004**	**0.1150**	**0.0303**	**8.3000e-004**	**0.0311**		**109.0150**	**109.0150**	**2.8600e-003**		**109.0866**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0403	0.0233	0.3384	1.0600e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311		105.6336	105.6336	2.6300e-003		105.6992
Total	**0.0403**	**0.0233**	**0.3384**	**1.0600e-003**	**0.1141**	**8.8000e-004**	**0.1150**	**0.0303**	**8.1000e-004**	**0.0311**		**105.6336**	**105.6336**	**2.6300e-003**		**105.6992**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0403	0.0233	0.3384	1.0600e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311		105.6336	105.6336	2.6300e-003		105.6992
Total	**0.0403**	**0.0233**	**0.3384**	**1.0600e-003**	**0.1141**	**8.8000e-004**	**0.1150**	**0.0303**	**8.1000e-004**	**0.0311**		**105.6336**	**105.6336**	**2.6300e-003**		**105.6992**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,126.7583	1,126.7583	0.0280		1,127.4583
Total	**0.4296**	**0.2481**	**3.6098**	**0.0113**	**1.2171**	**9.4300e-003**	**1.2266**	**0.3229**	**8.6800e-003**	**0.3315**		**1,126.7583**	**1,126.7583**	**0.0280**		**1,127.4583**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4296	0.2481	3.6098	0.0113	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,126.7583	1,126.7583	0.0280		1,127.4583
Total	**0.4296**	**0.2481**	**3.6098**	**0.0113**	**1.2171**	**9.4300e-003**	**1.2266**	**0.3229**	**8.6800e-003**	**0.3315**		**1,126.7583**	**1,126.7583**	**0.0280**		**1,127.4583**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208
Unmitigated	9.8489	45.4304	114.8495	0.4917	45.9592	0.3360	46.2951	12.2950	0.3119	12.6070		50,306.6034	50,306.6034	2.1807		50,361.1208

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Summer

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
NaturalGas Unmitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Village South Specific Plan (Proposed)

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
General Office Building	45.00	1000sqft	1.03	45,000.00	0
High Turnover (Sit Down Restaurant)	36.00	1000sqft	0.83	36,000.00	0
Hotel	50.00	Room	1.67	72,600.00	0
Quality Restaurant	8.00	1000sqft	0.18	8,000.00	0
Apartments Low Rise	25.00	Dwelling Unit	1.56	25,000.00	72
Apartments Mid Rise	975.00	Dwelling Unit	25.66	975,000.00	2789
Regional Shopping Center	56.00	1000sqft	1.29	56,000.00	0

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	9			**Operational Year**	2028
Utility Company	Southern California Edison				
CO2 Intensity (lb/MWhr)	702.44	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Project Characteristics - Consistent with the DEIR's model.

Land Use - See SWAPE comment regarding residential and retail land uses.

Construction Phase - See SWAPE comment regarding individual construction phase lengths.

Demolition - Consistent with the DEIR's model. See SWAPE comment regarding demolition.

Vehicle Trips - Saturday trips consistent with the DEIR's model. See SWAPE comment regarding weekday and Sunday trips.

Woodstoves - Woodstoves and wood-burning fireplaces consistent with the DEIR's model. See SWAPE comment regarding gas fireplaces.

Energy Use -

Construction Off-road Equipment Mitigation - See SWAPE comment on construction-related mitigation.

Area Mitigation - See SWAPE comment regarding operational mitigation measures.

Water Mitigation - See SWAPE comment regarding operational mitigation measures.

Trips and VMT - Local hire provision

Table Name	Column Name	Default Value	New Value
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	FireplaceWoodMass	1,019.20	0.00
tblFireplaces	NumberWood	1.25	0.00
tblFireplaces	NumberWood	48.75	0.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblTripsAndVMT	WorkerTripLength	14.70	10.00
tblVehicleTrips	ST_TR	7.16	6.17
tblVehicleTrips	ST_TR	6.39	3.87
tblVehicleTrips	ST_TR	2.46	1.39
tblVehicleTrips	ST_TR	158.37	79.82

tblVehicleTrips	ST_TR	8.19	3.75
tblVehicleTrips	ST_TR	94.36	63.99
tblVehicleTrips	ST_TR	49.97	10.74
tblVehicleTrips	SU_TR	6.07	6.16
tblVehicleTrips	SU_TR	5.86	4.18
tblVehicleTrips	SU_TR	1.05	0.69
tblVehicleTrips	SU_TR	131.84	78.27
tblVehicleTrips	SU_TR	5.95	3.20
tblVehicleTrips	SU_TR	72.16	57.65
tblVehicleTrips	SU_TR	25.24	6.39
tblVehicleTrips	WD_TR	6.59	5.83
tblVehicleTrips	WD_TR	6.65	4.13
tblVehicleTrips	WD_TR	11.03	6.41
tblVehicleTrips	WD_TR	127.15	65.80
tblVehicleTrips	WD_TR	8.17	3.84
tblVehicleTrips	WD_TR	89.95	62.64
tblVehicleTrips	WD_TR	42.70	9.43
tblWoodstoves	NumberCatalytic	1.25	0.00
tblWoodstoves	NumberCatalytic	48.75	0.00
tblWoodstoves	NumberNoncatalytic	1.25	0.00
tblWoodstoves	NumberNoncatalytic	48.75	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveDayYear	25.00	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00
tblWoodstoves	WoodstoveWoodMass	999.60	0.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2621	46.4460	31.4068	0.0635	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,154.3377	6,154.3377	1.9472	0.0000	6,203.0186
2022	4.7966	38.8851	39.6338	0.1195	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,035.3440	12,035.3440	1.9482	0.0000	12,060.6013
2023	4.3939	25.8648	37.5031	0.1162	7.0088	0.7598	7.7685	1.8799	0.7142	2.5940	0.0000	11,710.4080	11,710.4080	0.9617	0.0000	11,734.4497
2024	237.0656	9.5503	14.9372	0.0238	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,307.0517	2,307.0517	0.7164	0.0000	2,324.9627
Maximum	**237.0656**	**46.4460**	**39.6338**	**0.1195**	**18.2032**	**2.0456**	**20.2488**	**9.9670**	**1.8820**	**11.8490**	**0.0000**	**12,035.3440**	**12,035.3440**	**1.9482**	**0.0000**	**12,060.6013**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2021	4.2621	46.4460	31.4068	0.0635	18.2032	2.0456	20.2488	9.9670	1.8820	11.8490	0.0000	6,154.3377	6,154.3377	1.9472	0.0000	6,203.0186
2022	4.7966	38.8851	39.6338	0.1195	8.8255	1.6361	10.4616	3.6369	1.5052	5.1421	0.0000	12,035.3440	12,035.3440	1.9482	0.0000	12,060.6013
2023	4.3939	25.8648	37.5031	0.1162	7.0088	0.7598	7.7685	1.8799	0.7142	2.5940	0.0000	11,710.4080	11,710.4080	0.9617	0.0000	11,734.4497
2024	237.0656	9.5503	14.9372	0.0238	1.2171	0.4694	1.2875	0.3229	0.4319	0.4621	0.0000	2,307.0517	2,307.0517	0.7164	0.0000	2,324.9627
Maximum	**237.0656**	**46.4460**	**39.6338**	**0.1195**	**18.2032**	**2.0456**	**20.2488**	**9.9670**	**1.8820**	**11.8490**	**0.0000**	**12,035.3440**	**12,035.3440**	**1.9482**	**0.0000**	**12,060.6013**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Total	**40.7912**	**67.7872**	**202.7424**	**0.6043**	**45.9592**	**2.4640**	**48.4231**	**12.2950**	**2.4399**	**14.7349**	**0.0000**	**74,422.3787**	**74,422.3787**	**2.8429**	**0.4832**	**74,637.4417**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Energy	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
Mobile	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Total	**40.7912**	**67.7872**	**202.7424**	**0.6043**	**45.9592**	**2.4640**	**48.4231**	**12.2950**	**2.4399**	**14.7349**	**0.0000**	**74,422.3787**	**74,422.3787**	**2.8429**	**0.4832**	**74,637.4417**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	9/1/2021	10/12/2021	5	30	
2	Site Preparation	Site Preparation	10/13/2021	11/9/2021	5	20	
3	Grading	Grading	11/10/2021	1/11/2022	5	45	
4	Building Construction	Building Construction	1/12/2022	12/12/2023	5	500	
5	Paving	Paving	12/13/2023	1/30/2024	5	35	
6	Architectural Coating	Architectural Coating	1/31/2024	3/19/2024	5	35	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 112.5

Acres of Paving: 0

Residential Indoor: 2,025,000; Residential Outdoor: 675,000; Non-Residential Indoor: 326,400; Non-Residential Outdoor: 108,800; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Demolition	Excavators	3	8.00	158	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Grading	Excavators	2	8.00	158	0.38
Grading	Graders	1	8.00	187	0.41
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Building Construction	Cranes	1	7.00	231	0.29
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Architectural Coating	Air Compressors	1	6.00	78	0.48

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Demolition	6	15.00	0.00	458.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	801.00	143.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Architectural Coating	1	160.00	0.00	0.00	10.00	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

3.2 Demolition - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411		3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**		**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.8555	1,269.8555	0.0908		1,272.1252
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0532	0.0346	0.3963	1.1100e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		110.4707	110.4707	3.3300e-003		110.5539
Total	**0.1835**	**4.1800**	**1.4144**	**0.0128**	**0.3810**	**0.0137**	**0.3948**	**0.1034**	**0.0131**	**0.1165**		**1,380.3262**	**1,380.3262**	**0.0941**		**1,382.6791**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					3.3074	0.0000	3.3074	0.5008	0.0000	0.5008			0.0000			0.0000
Off-Road	3.1651	31.4407	21.5650	0.0388		1.5513	1.5513		1.4411	1.4411	0.0000	3,747.9449	3,747.9449	1.0549		3,774.3174
Total	**3.1651**	**31.4407**	**21.5650**	**0.0388**	**3.3074**	**1.5513**	**4.8588**	**0.5008**	**1.4411**	**1.9419**	**0.0000**	**3,747.9449**	**3,747.9449**	**1.0549**		**3,774.3174**

3.2 Demolition - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.1304	4.1454	1.0182	0.0117	0.2669	0.0128	0.2797	0.0732	0.0122	0.0854		1,269.8555	1,269.8555	0.0908		1,272.1252
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0532	0.0346	0.3963	1.1100e-003	0.1141	9.5000e-004	0.1151	0.0303	8.8000e-004	0.0311		110.4707	110.4707	3.3300e-003		110.5539
Total	**0.1835**	**4.1800**	**1.4144**	**0.0128**	**0.3810**	**0.0137**	**0.3948**	**0.1034**	**0.0131**	**0.1165**		**1,380.3262**	**1,380.3262**	**0.0941**		**1,382.6791**

3.3 Site Preparation - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809		3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**		**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		132.5649	132.5649	3.9900e-003		132.6646
Total	**0.0638**	**0.0415**	**0.4755**	**1.3300e-003**	**0.1369**	**1.1400e-003**	**0.1381**	**0.0363**	**1.0500e-003**	**0.0374**		**132.5649**	**132.5649**	**3.9900e-003**		**132.6646**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.8882	40.4971	21.1543	0.0380		2.0445	2.0445		1.8809	1.8809	0.0000	3,685.6569	3,685.6569	1.1920		3,715.4573
Total	**3.8882**	**40.4971**	**21.1543**	**0.0380**	**18.0663**	**2.0445**	**20.1107**	**9.9307**	**1.8809**	**11.8116**	**0.0000**	**3,685.6569**	**3,685.6569**	**1.1920**		**3,715.4573**

3.3 Site Preparation - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0638	0.0415	0.4755	1.3300e-003	0.1369	1.1400e-003	0.1381	0.0363	1.0500e-003	0.0374		132.5649	132.5649	3.9900e-003		132.6646
Total	**0.0638**	**0.0415**	**0.4755**	**1.3300e-003**	**0.1369**	**1.1400e-003**	**0.1381**	**0.0363**	**1.0500e-003**	**0.0374**		**132.5649**	**132.5649**	**3.9900e-003**		**132.6646**

3.4 Grading - 2021

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265		6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**		**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		147.2943	147.2943	4.4300e-003		147.4051
Total	**0.0709**	**0.0462**	**0.5284**	**1.4800e-003**	**0.1521**	**1.2700e-003**	**0.1534**	**0.0404**	**1.1700e-003**	**0.0415**		**147.2943**	**147.2943**	**4.4300e-003**		**147.4051**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	4.1912	46.3998	30.8785	0.0620		1.9853	1.9853		1.8265	1.8265	0.0000	6,007.0434	6,007.0434	1.9428		6,055.6134
Total	**4.1912**	**46.3998**	**30.8785**	**0.0620**	**8.6733**	**1.9853**	**10.6587**	**3.5965**	**1.8265**	**5.4230**	**0.0000**	**6,007.0434**	**6,007.0434**	**1.9428**		**6,055.6134**

3.4 Grading - 2021

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0709	0.0462	0.5284	1.4800e-003	0.1521	1.2700e-003	0.1534	0.0404	1.1700e-003	0.0415		147.2943	147.2943	4.4300e-003		147.4051
Total	**0.0709**	**0.0462**	**0.5284**	**1.4800e-003**	**0.1521**	**1.2700e-003**	**0.1534**	**0.0404**	**1.1700e-003**	**0.0415**		**147.2943**	**147.2943**	**4.4300e-003**		**147.4051**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0416	0.4861	1.4300e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415		142.1207	142.1207	4.0000e-003		142.2207
Total	**0.0665**	**0.0416**	**0.4861**	**1.4300e-003**	**0.1521**	**1.2300e-003**	**0.1534**	**0.0404**	**1.1300e-003**	**0.0415**		**142.1207**	**142.1207**	**4.0000e-003**		**142.2207**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.6733	0.0000	8.6733	3.5965	0.0000	3.5965			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**8.6733**	**1.6349**	**10.3082**	**3.5965**	**1.5041**	**5.1006**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0665	0.0416	0.4861	1.4300e-003	0.1521	1.2300e-003	0.1534	0.0404	1.1300e-003	0.0415		142.1207	142.1207	4.0000e-003		142.2207
Total	**0.0665**	**0.0416**	**0.4861**	**1.4300e-003**	**0.1521**	**1.2300e-003**	**0.1534**	**0.0404**	**1.1300e-003**	**0.0415**		**142.1207**	**142.1207**	**4.0000e-003**		**142.2207**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.0750	3,789.0750	0.2381		3,795.0283
Worker	2.6620	1.6677	19.4699	0.0571	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		5,691.9354	5,691.9354	0.1602		5,695.9408
Total	**3.0904**	**14.8350**	**23.2704**	**0.0926**	**7.0087**	**0.0749**	**7.0836**	**1.8799**	**0.0699**	**1.9498**		**9,481.0104**	**9,481.0104**	**0.3984**		**9,490.9691**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.4284	13.1673	3.8005	0.0354	0.9155	0.0256	0.9412	0.2636	0.0245	0.2881		3,789.0750	3,789.0750	0.2381		3,795.0283
Worker	2.6620	1.6677	19.4699	0.0571	6.0932	0.0493	6.1425	1.6163	0.0454	1.6617		5,691.9354	5,691.9354	0.1602		5,695.9408
Total	**3.0904**	**14.8350**	**23.2704**	**0.0926**	**7.0087**	**0.0749**	**7.0836**	**1.8799**	**0.0699**	**1.9498**		**9,481.0104**	**9,481.0104**	**0.3984**		**9,490.9691**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.4007	3,671.4007	0.2096		3,676.6417
Worker	2.5029	1.5073	17.8820	0.0550	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,483.7974	5,483.7974	0.1442		5,487.4020
Total	**2.8211**	**11.4799**	**21.2591**	**0.0893**	**7.0088**	**0.0601**	**7.0688**	**1.8799**	**0.0557**	**1.9356**		**9,155.1981**	**9,155.1981**	**0.3538**		**9,164.0437**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.3183	9.9726	3.3771	0.0343	0.9156	0.0122	0.9277	0.2636	0.0116	0.2752		3,671.4007	3,671.4007	0.2096		3,676.6417
Worker	2.5029	1.5073	17.8820	0.0550	6.0932	0.0479	6.1411	1.6163	0.0441	1.6604		5,483.7974	5,483.7974	0.1442		5,487.4020
Total	**2.8211**	**11.4799**	**21.2591**	**0.0893**	**7.0088**	**0.0601**	**7.0688**	**1.8799**	**0.0557**	**1.9356**		**9,155.1981**	**9,155.1981**	**0.3538**		**9,164.0437**

3.6 Paving - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694		2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**		**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0469	0.0282	0.3349	1.0300e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311		102.6928	102.6928	2.7000e-003		102.7603
Total	**0.0469**	**0.0282**	**0.3349**	**1.0300e-003**	**0.1141**	**9.0000e-004**	**0.1150**	**0.0303**	**8.3000e-004**	**0.0311**		**102.6928**	**102.6928**	**2.7000e-003**		**102.7603**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.0327	10.1917	14.5842	0.0228		0.5102	0.5102		0.4694	0.4694	0.0000	2,207.5841	2,207.5841	0.7140		2,225.4336
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**1.0327**	**10.1917**	**14.5842**	**0.0228**		**0.5102**	**0.5102**		**0.4694**	**0.4694**	**0.0000**	**2,207.5841**	**2,207.5841**	**0.7140**		**2,225.4336**

3.6 Paving - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0469	0.0282	0.3349	1.0300e-003	0.1141	9.0000e-004	0.1150	0.0303	8.3000e-004	0.0311		102.6928	102.6928	2.7000e-003		102.7603
Total	**0.0469**	**0.0282**	**0.3349**	**1.0300e-003**	**0.1141**	**9.0000e-004**	**0.1150**	**0.0303**	**8.3000e-004**	**0.0311**		**102.6928**	**102.6928**	**2.7000e-003**		**102.7603**

3.6 Paving - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310		2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**		**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0444	0.0257	0.3114	1.0000e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311		99.5045	99.5045	2.4700e-003		99.5663
Total	**0.0444**	**0.0257**	**0.3114**	**1.0000e-003**	**0.1141**	**8.8000e-004**	**0.1150**	**0.0303**	**8.1000e-004**	**0.0311**		**99.5045**	**99.5045**	**2.4700e-003**		**99.5663**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9882	9.5246	14.6258	0.0228		0.4685	0.4685		0.4310	0.4310	0.0000	2,207.5472	2,207.5472	0.7140		2,225.3963
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9882**	**9.5246**	**14.6258**	**0.0228**		**0.4685**	**0.4685**		**0.4310**	**0.4310**	**0.0000**	**2,207.5472**	**2,207.5472**	**0.7140**		**2,225.3963**

3.6 Paving - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0444	0.0257	0.3114	1.0000e-003	0.1141	8.8000e-004	0.1150	0.0303	8.1000e-004	0.0311		99.5045	99.5045	2.4700e-003		99.5663
Total	**0.0444**	**0.0257**	**0.3114**	**1.0000e-003**	**0.1141**	**8.8000e-004**	**0.1150**	**0.0303**	**8.1000e-004**	**0.0311**		**99.5045**	**99.5045**	**2.4700e-003**		**99.5663**

3.7 Architectural Coating - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609		281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**		**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4734	0.2743	3.3220	0.0107	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,061.3818	1,061.3818	0.0264		1,062.0410
Total	**0.4734**	**0.2743**	**3.3220**	**0.0107**	**1.2171**	**9.4300e-003**	**1.2266**	**0.3229**	**8.6800e-003**	**0.3315**		**1,061.3818**	**1,061.3818**	**0.0264**		**1,062.0410**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	236.4115					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1808	1.2188	1.8101	2.9700e-003		0.0609	0.0609		0.0609	0.0609	0.0000	281.4481	281.4481	0.0159		281.8443
Total	**236.5923**	**1.2188**	**1.8101**	**2.9700e-003**		**0.0609**	**0.0609**		**0.0609**	**0.0609**	**0.0000**	**281.4481**	**281.4481**	**0.0159**		**281.8443**

3.7 Architectural Coating - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.4734	0.2743	3.3220	0.0107	1.2171	9.4300e-003	1.2266	0.3229	8.6800e-003	0.3315		1,061.3818	1,061.3818	0.0264		1,062.0410
Total	**0.4734**	**0.2743**	**3.3220**	**0.0107**	**1.2171**	**9.4300e-003**	**1.2266**	**0.3229**	**8.6800e-003**	**0.3315**		**1,061.3818**	**1,061.3818**	**0.0264**		**1,062.0410**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839
Unmitigated	9.5233	45.9914	110.0422	0.4681	45.9592	0.3373	46.2965	12.2950	0.3132	12.6083		47,917.8005	47,917.8005	2.1953		47,972.6839

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
Apartments Low Rise	145.75	154.25	154.00	506,227	506,227
Apartments Mid Rise	4,026.75	3,773.25	4075.50	13,660,065	13,660,065
General Office Building	288.45	62.55	31.05	706,812	706,812
High Turnover (Sit Down Restaurant)	2,368.80	2,873.52	2817.72	3,413,937	3,413,937
Hotel	192.00	187.50	160.00	445,703	445,703
Quality Restaurant	501.12	511.92	461.20	707,488	707,488
Regional Shopping Center	528.08	601.44	357.84	1,112,221	1,112,221
Total	8,050.95	8,164.43	8,057.31	20,552,452	20,552,452

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
Apartments Low Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
Apartments Mid Rise	14.70	5.90	8.70	40.20	19.20	40.60	86	11	3
General Office Building	16.60	8.40	6.90	33.00	48.00	19.00	77	19	4
High Turnover (Sit Down	16.60	8.40	6.90	8.50	72.50	19.00	37	20	43
Hotel	16.60	8.40	6.90	19.40	61.60	19.00	58	38	4
Quality Restaurant	16.60	8.40	6.90	12.00	69.00	19.00	38	18	44
Regional Shopping Center	16.60	8.40	6.90	16.30	64.70	19.00	54	35	11

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
Apartments Low Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Apartments Mid Rise	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
General Office Building	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
High Turnover (Sit Down Restaurant)	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Hotel	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Quality Restaurant	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821
Regional Shopping Center	0.543088	0.044216	0.209971	0.116369	0.014033	0.006332	0.021166	0.033577	0.002613	0.001817	0.005285	0.000712	0.000821

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Village South Specific Plan (Proposed) - Los Angeles-South Coast County, Winter

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387
NaturalGas Unmitigated	0.7660	6.7462	4.2573	0.0418		0.5292	0.5292		0.5292	0.5292		8,355.9832	8,355.9832	0.1602	0.1532	8,405.6387

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	1119.16	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35784.3	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1283.42	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22759.9	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4769.72	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5057.75	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	251.616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

5.2 Energy by Land Use - NaturalGas

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
Apartments Low Rise	1.11916	0.0121	0.1031	0.0439	6.6000e-004		8.3400e-003	8.3400e-003		8.3400e-003	8.3400e-003		131.6662	131.6662	2.5200e-003	2.4100e-003	132.4486
Apartments Mid Rise	35.7843	0.3859	3.2978	1.4033	0.0211		0.2666	0.2666		0.2666	0.2666		4,209.9164	4,209.9164	0.0807	0.0772	4,234.9339
General Office Building	1.28342	0.0138	0.1258	0.1057	7.5000e-004		9.5600e-003	9.5600e-003		9.5600e-003	9.5600e-003		150.9911	150.9911	2.8900e-003	2.7700e-003	151.8884
High Turnover (Sit Down Restaurant)	22.7599	0.2455	2.2314	1.8743	0.0134		0.1696	0.1696		0.1696	0.1696		2,677.6342	2,677.6342	0.0513	0.0491	2,693.5460
Hotel	4.76972	0.0514	0.4676	0.3928	2.8100e-003		0.0355	0.0355		0.0355	0.0355		561.1436	561.1436	0.0108	0.0103	564.4782
Quality Restaurant	5.05775	0.0545	0.4959	0.4165	2.9800e-003		0.0377	0.0377		0.0377	0.0377		595.0298	595.0298	0.0114	0.0109	598.5658
Regional Shopping Center	0.251616	2.7100e-003	0.0247	0.0207	1.5000e-004		1.8700e-003	1.8700e-003		1.8700e-003	1.8700e-003		29.6019	29.6019	5.7000e-004	5.4000e-004	29.7778
Total		**0.7660**	**6.7463**	**4.2573**	**0.0418**		**0.5292**	**0.5292**		**0.5292**	**0.5292**		**8,355.9832**	**8,355.9832**	**0.1602**	**0.1532**	**8,405.6387**

6.0 Area Detail

6.1 Mitigation Measures Area

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192
Unmitigated	30.5020	15.0496	88.4430	0.0944		1.5974	1.5974		1.5974	1.5974	0.0000	18,148.5950	18,148.5950	0.4874	0.3300	18,259.1192

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

6.2 Area by SubCategory

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	2.2670					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	24.1085					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Hearth	1.6500	14.1000	6.0000	0.0900		1.1400	1.1400		1.1400	1.1400	0.0000	18,000.0000	18,000.0000	0.3450	0.3300	18,106.9650
Landscaping	2.4766	0.9496	82.4430	4.3600e-003		0.4574	0.4574		0.4574	0.4574		148.5950	148.5950	0.1424		152.1542
Total	**30.5020**	**15.0496**	**88.4430**	**0.0944**		**1.5974**	**1.5974**		**1.5974**	**1.5974**	**0.0000**	**18,148.5950**	**18,148.5950**	**0.4874**	**0.3300**	**18,259.1192**

7.0 Water Detail

7.1 Mitigation Measures Water

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Attachment C

Local Hire Provision Net Change	
Without Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,623
Amortized (MT CO2e/year)	120.77
With Local Hire Provision	
Total Construction GHG Emissions (MT CO2e)	3,024
Amortized (MT CO2e/year)	100.80
% Decrease in Construction-related GHG Emissions	***17%***

EXHIBIT B

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

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Paul Rosenfeld, Ph.D.

Chemical Fate and Transport & Air Dispersion Modeling

Principal Environmental Chemist

Risk Assessment & Remediation Specialist

Education

Ph.D. Soil Chemistry, University of Washington, 1999. Dissertation on volatile organic compound filtration.

M.S. Environmental Science, U.C. Berkeley, 1995. Thesis on organic waste economics.

B.A. Environmental Studies, U.C. Santa Barbara, 1991. Thesis on wastewater treatment.

Professional Experience

Dr. Rosenfeld has over 25 years' experience conducting environmental investigations and risk assessments for evaluating impacts to human health, property, and ecological receptors. His expertise focuses on the fate and transport of environmental contaminants, human health risk, exposure assessment, and ecological restoration. Dr. Rosenfeld has evaluated and modeled emissions from unconventional oil drilling operations, oil spills, landfills, boilers and incinerators, process stacks, storage tanks, confined animal feeding operations, and many other industrial and agricultural sources. His project experience ranges from monitoring and modeling of pollution sources to evaluating impacts of pollution on workers at industrial facilities and residents in surrounding communities.

Dr. Rosenfeld has investigated and designed remediation programs and risk assessments for contaminated sites containing lead, heavy metals, mold, bacteria, particulate matter, petroleum hydrocarbons, chlorinated solvents, pesticides, radioactive waste, dioxins and furans, semi- and volatile organic compounds, PCBs, PAHs, perchlorate, asbestos, per- and poly-fluoroalkyl substances (PFOA/PFOS), unusual polymers, fuel oxygenates (MTBE), among other pollutants. Dr. Rosenfeld also has experience evaluating greenhouse gas emissions from various projects and is an expert on the assessment of odors from industrial and agricultural sites, as well as the evaluation of odor nuisance impacts and technologies for abatement of odorous emissions. As a principal scientist at SWAPE, Dr. Rosenfeld directs air dispersion modeling and exposure assessments. He has served as an expert witness and testified about pollution sources causing nuisance and/or personal injury at dozens of sites and has testified as an expert witness on more than ten cases involving exposure to air contaminants from industrial sources.

Professional History:

Soil Water Air Protection Enterprise (SWAPE); 2003 to present; Principal and Founding Partner
UCLA School of Public Health; 2007 to 2011; Lecturer (Assistant Researcher)
UCLA School of Public Health; 2003 to 2006; Adjunct Professor
UCLA Environmental Science and Engineering Program; 2002-2004; Doctoral Intern Coordinator
UCLA Institute of the Environment, 2001-2002; Research Associate
Komex H_2O Science, 2001 to 2003; Senior Remediation Scientist
National Groundwater Association, 2002-2004; Lecturer
San Diego State University, 1999-2001; Adjunct Professor
Anteon Corp., San Diego, 2000-2001; Remediation Project Manager
Ogden (now Amec), San Diego, 2000-2000; Remediation Project Manager
Bechtel, San Diego, California, 1999 – 2000; Risk Assessor
King County, Seattle, 1996 – 1999; Scientist
James River Corp., Washington, 1995-96; Scientist
Big Creek Lumber, Davenport, California, 1995; Scientist
Plumas Corp., California and USFS, Tahoe 1993-1995; Scientist
Peace Corps and World Wildlife Fund, St. Kitts, West Indies, 1991-1993; Scientist

Publications:

Remy, L.L., Clay T., Byers, V., **Rosenfeld P. E.** (2019) Hospital, Health, and Community Burden After Oil Refinery Fires, Richmond, California 2007 and 2012. *Environmental Health.* 18:48

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Rosenfeld, P.E. (April 19-23, 2009). Perfluoroctanoic Acid (PFOA) and Perfluoroactane Sulfonate (PFOS) Contamination in Drinking Water From the Use of Aqueous Film Forming Foams (AFFF) at Airports in the United States. *2009 Ground Water Summit and 2009 Ground Water Protection Council Spring Meeting*, Lecture conducted from Tuscon, AZ.

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Rosenfeld, P. E. (October 15-18, 2007). Moss Point Community Exposure To Contaminants From A Releasing Facility. *The 23rd Annual International Conferences on Soils Sediment and Water.* Platform lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld, P. E. (October 15-18, 2007). The Repeated Trespass of Tritium-Contaminated Water Into A Surrounding Community Form Repeated Waste Spills From A Nuclear Power Plant. *The 23rd Annual International Conferences on Soils Sediment and Water*. Platform lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld, P. E. (October 15-18, 2007). Somerville Community Exposure To Contaminants From Wood Treatment Facility Emissions. The *23rd Annual International Conferences on Soils Sediment and Water*. Lecture conducted from University of Massachusetts, Amherst MA.

Rosenfeld P. E. (March 2007). Production, Chemical Properties, Toxicology, & Treatment Case Studies of 1,2,3-Trichloropropane (TCP). *The Association for Environmental Health and Sciences (AEHS) Annual Meeting*. Lecture conducted from San Diego, CA.

Rosenfeld P. E. (March 2007). Blood and Attic Sampling for Dioxin/Furan, PAH, and Metal Exposure in Florala, Alabama. *The AEHS Annual Meeting.* Lecture conducted from San Diego, CA.

Hensley A.R., Scott, A., **Rosenfeld P.E.,** Clark, J.J.J. (August 21 – 25, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *The 26th International Symposium on Halogenated Persistent Organic Pollutants – DIOXIN2006*. Lecture conducted from Radisson SAS Scandinavia Hotel in Oslo Norway.

Hensley A.R., Scott, A., **Rosenfeld P.E.,** Clark, J.J.J. (November 4-8, 2006). Dioxin Containing Attic Dust And Human Blood Samples Collected Near A Former Wood Treatment Facility. *APHA 134 Annual Meeting & Exposition.* Lecture conducted from Boston Massachusetts.

Paul Rosenfeld Ph.D. (October 24-25, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. Mealey's C8/PFOA. *Science, Risk & Litigation Conference.* Lecture conducted from The Rittenhouse Hotel, Philadelphia, PA.

Paul Rosenfeld Ph.D. (September 19, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, *Toxicology and Remediation PEMA Emerging Contaminant Conference*. Lecture conducted from Hilton Hotel, Irvine California.

Paul Rosenfeld Ph.D. (September 19, 2005). Fate, Transport, Toxicity, And Persistence of 1,2,3-TCP. *PEMA Emerging Contaminant Conference.* Lecture conducted from Hilton Hotel in Irvine, California.

Paul Rosenfeld Ph.D. (September 26-27, 2005). Fate, Transport and Persistence of PDBEs. *Mealey's Groundwater Conference.* Lecture conducted from Ritz Carlton Hotel, Marina Del Ray, California.

Paul Rosenfeld Ph.D. (June 7-8, 2005). Fate, Transport and Persistence of PFOA and Related Chemicals. *International Society of Environmental Forensics: Focus On Emerging Contaminants*. Lecture conducted from Sheraton Oceanfront Hotel, Virginia Beach, Virginia.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Fate Transport, Persistence and Toxicology of PFOA and Related Perfluorochemicals. *2005 National Groundwater Association Ground Water And Environmental Law Conference*. Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld Ph.D. (July 21-22, 2005). Brominated Flame Retardants in Groundwater: Pathways to Human Ingestion, Toxicology and Remediation. *2005 National Groundwater Association Ground Water and Environmental Law Conference.* Lecture conducted from Wyndham Baltimore Inner Harbor, Baltimore Maryland.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. and Rob Hesse R.G. (May 5-6, 2004). Tert-butyl Alcohol Liability and Toxicology, A National Problem and Unquantified Liability. *National Groundwater Association. Environmental Law Conference*. Lecture conducted from Congress Plaza Hotel, Chicago Illinois.

Paul Rosenfeld, Ph.D. (March 2004). Perchlorate Toxicology. *Meeting of the American Groundwater Trust*. Lecture conducted from Phoenix Arizona.

Hagemann, M.F., **Paul Rosenfeld, Ph.D.** and Rob Hesse (2004). Perchlorate Contamination of the Colorado River. *Meeting of tribal representatives*. Lecture conducted from Parker, AZ.

Paul Rosenfeld, Ph.D. (April 7, 2004). A National Damage Assessment Model For PCE and Dry Cleaners. *Drycleaner Symposium. California Ground Water Association*. Lecture conducted from Radison Hotel, Sacramento, California.

Rosenfeld, P. E., Grey, M., (June 2003) Two stage biofilter for biosolids composting odor control. *Seventh International In Situ And On Site Bioremediation Symposium Battelle Conference* Orlando, FL.

Paul Rosenfeld, Ph.D. and James Clark Ph.D. (February 20-21, 2003) Understanding Historical Use, Chemical Properties, Toxicity and Regulatory Guidance of 1,4 Dioxane. *National Groundwater Association. Southwest Focus Conference. Water Supply and Emerging Contaminants*.. Lecture conducted from Hyatt Regency Phoenix Arizona.

Paul Rosenfeld, Ph.D. (February 6-7, 2003). Underground Storage Tank Litigation and Remediation. *California CUPA Forum*. Lecture conducted from Marriott Hotel, Anaheim California.

Paul Rosenfeld, Ph.D. (October 23, 2002) Underground Storage Tank Litigation and Remediation. *EPA Underground Storage Tank Roundtable*. Lecture conducted from Sacramento California.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Understanding Odor from Compost, *Wastewater and Industrial Processes. Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Suffet, M. (October 7- 10, 2002). Using High Carbon Wood Ash to Control Compost Odor. *Sixth Annual Symposium On Off Flavors in the Aquatic Environment. International Water Association*. Lecture conducted from Barcelona Spain.

Rosenfeld, P.E. and Grey, M. A. (September 22-24, 2002). Biocycle Composting For Coastal Sage Restoration. *Northwest Biosolids Management Association*. Lecture conducted from Vancouver Washington..

Rosenfeld, P.E. and Grey, M. A. (November 11-14, 2002). Using High-Carbon Wood Ash to Control Odor at a Green Materials Composting Facility. *Soil Science Society Annual Conferenc*e. Lecture conducted from Indianapolis, Maryland.

Rosenfeld. P.E. (September 16, 2000). Two stage biofilter for biosolids composting odor control. *Water Environment Federation.* Lecture conducted from Anaheim California.

Rosenfeld. P.E. (October 16, 2000). Wood ash and biofilter control of compost odor. *Biofest.* Lecture conducted from Ocean Shores, California.

Rosenfeld, P.E. (2000). Bioremediation Using Organic Soil Amendments. *California Resource Recovery Association*. Lecture conducted from Sacramento California.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. *Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings*. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., and C.L. Henry. (1999). An evaluation of ash incorporation with biosolids for odor reduction. *Soil Science Society of America*. Lecture conducted from Salt Lake City Utah.

Rosenfeld, P.E., C.L. Henry, R. Harrison. (1998). Comparison of Microbial Activity and Odor Emissions from Three Different Biosolids Applied to Forest Soil. *Brown and Caldwell.* Lecture conducted from Seattle Washington.

Rosenfeld, P.E., C.L. Henry. (1998). Characterization, Quantification, and Control of Odor Emissions from Biosolids Application To Forest Soil. *Biofest.* Lecture conducted from Lake Chelan, Washington.

Rosenfeld, P.E, C.L. Henry, R. Harrison. (1998). Oat and Grass Seed Germination and Nitrogen and Sulfur Emissions Following Biosolids Incorporation With High-Carbon Wood-Ash. Water Environment Federation 12th Annual Residuals and Biosolids Management Conference Proceedings. Lecture conducted from Bellevue Washington.

Rosenfeld, P.E., C.L. Henry, R. B. Harrison, and R. Dills. (1997). Comparison of Odor Emissions From Three Different Biosolids Applied to Forest Soil. *Soil Science Society of America*. Lecture conducted from Anaheim California.

Teaching Experience:

UCLA Department of Environmental Health (Summer 2003 through 20010) Taught Environmental Health Science 100 to students, including undergrad, medical doctors, public health professionals and nurses. Course focused on the health effects of environmental contaminants.

National Ground Water Association, Successful Remediation Technologies. Custom Course in Sante Fe, New Mexico. May 21, 2002. Focused on fate and transport of fuel contaminants associated with underground storage tanks.

National Ground Water Association; Successful Remediation Technologies Course in Chicago Illinois. April 1, 2002. Focused on fate and transport of contaminants associated with Superfund and RCRA sites.

California Integrated Waste Management Board, April and May, 2001. Alternative Landfill Caps Seminar in San Diego, Ventura, and San Francisco. Focused on both prescriptive and innovative landfill cover design.

UCLA Department of Environmental Engineering, February 5, 2002. Seminar on Successful Remediation Technologies focusing on Groundwater Remediation.

University Of Washington, Soil Science Program, Teaching Assistant for several courses including: Soil Chemistry, Organic Soil Amendments, and Soil Stability.

U.C. Berkeley, Environmental Science Program Teaching Assistant for Environmental Science 10.

Academic Grants Awarded:

California Integrated Waste Management Board. $41,000 grant awarded to UCLA Institute of the Environment. Goal: To investigate effect of high carbon wood ash on volatile organic emissions from compost. 2001.

Synagro Technologies, Corona California: $10,000 grant awarded to San Diego State University.
Goal: investigate effect of biosolids for restoration and remediation of degraded coastal sage soils. 2000.

King County, Department of Research and Technology, Washington State. $100,000 grant awarded to University of Washington: Goal: To investigate odor emissions from biosolids application and the effect of polymers and ash on VOC emissions. 1998.

Northwest Biosolids Management Association, Washington State. $20,000 grant awarded to investigate effect of polymers and ash on VOC emissions from biosolids. 1997.

James River Corporation, Oregon: $10,000 grant was awarded to investigate the success of genetically engineered Poplar trees with resistance to round-up. 1996.

United State Forest Service, Tahoe National Forest: $15,000 grant was awarded to investigating fire ecology of the Tahoe National Forest. 1995.

Kellogg Foundation, Washington D.C. $500 grant was awarded to construct a large anaerobic digester on St. Kitts in West Indies. 1993

Deposition and/or Trial Testimony:

In the United States District Court For The District of New Jersey
Duarte et al, *Plaintiffs,* vs. United States Metals Refining Company et. al. *Defendant.*
Case No.: 2:17-cv-01624-ES-SCM
Rosenfeld Deposition. 6-7-2019

In the United States District Court of Southern District of Texas Galveston Division
M/T Carla Maersk, *Plaintiffs,* vs. Conti 168., Schiffahrts-GMBH & Co. Bulker KG MS "Conti Perdido" *Defendant.*
Case No.: 3:15-CV-00106 consolidated with 3:15-CV-00237
Rosenfeld Deposition. 5-9-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica
Carole-Taddeo-Bates et al., vs. Ifran Khan et al., Defendants
Case No.: No. BC615636
Rosenfeld Deposition, 1-26-2019

In The Superior Court of the State of California In And For The County Of Los Angeles – Santa Monica
The San Gabriel Valley Council of Governments et al. vs El Adobe Apts. Inc. et al., Defendants
Case No.: No. BC646857
Rosenfeld Deposition, 10-6-2018; Trial 3-7-19

In United States District Court For The District of Colorado
Bells et al. Plaintiff vs. The 3M Company et al., Defendants
Case: No 1:16-cv-02531-RBJ
Rosenfeld Deposition, 3-15-2018 and 4-3-2018

In The District Court Of Regan County, Texas, 112th Judicial District
Phillip Bales et al., Plaintiff vs. Dow Agrosciences, LLC, et al., Defendants
Cause No 1923
Rosenfeld Deposition, 11-17-2017

In The Superior Court of the State of California In And For The County Of Contra Costa
Simons et al., Plaintiffs vs. Chevron Corporation, et al., Defendants
Cause No C12-01481
Rosenfeld Deposition, 11-20-2017

In The Circuit Court Of The Twentieth Judicial Circuit, St Clair County, Illinois
Martha Custer et al., Plaintiff vs. Cerro Flow Products, Inc., Defendants
Case No.: No. 0i9-L-2295
Rosenfeld Deposition, 8-23-2017

In The Superior Court of the State of California, For The County of Los Angeles
Warrn Gilbert and Penny Gilber, Plaintiff vs. BMW of North America LLC
Case No.: LC102019 (c/w BC582154)
Rosenfeld Deposition, 8-16-2017, Trail 8-28-2018

In the Northern District Court of Mississippi, Greenville Division
Brenda J. Cooper, et al., *Plaintiffs,* vs. Meritor Inc., et al., *Defendants*
Case Number: 4:16-cv-52-DMB-JVM
Rosenfeld Deposition: July 2017

In The Superior Court of the State of Washington, County of Snohomish
Michael Davis and Julie Davis et al., Plaintiff vs. Cedar Grove Composting Inc., Defendants
Case No.: No. 13-2-03987-5
Rosenfeld Deposition, February 2017
Trial, March 2017

In The Superior Court of the State of California, County of Alameda
Charles Spain., Plaintiff vs. Thermo Fisher Scientific, et al., Defendants
Case No.: RG14711115
Rosenfeld Deposition, September 2015

In The Iowa District Court In And For Poweshiek County
Russell D. Winburn, et al., Plaintiffs vs. Doug Hoksbergen, et al., Defendants
Case No.: LALA002187
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Jerry Dovico, et al., Plaintiffs vs. Valley View Sine LLC, et al., Defendants
Law No,: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Iowa District Court For Wapello County
Doug Pauls, et al.,, et al., Plaintiffs vs. Richard Warren, et al., Defendants
Law No,: LALA105144 - Division A
Rosenfeld Deposition, August 2015

In The Circuit Court of Ohio County, West Virginia
Robert Andrews, et al. v. Antero, et al.
Civil Action N0. 14-C-30000
Rosenfeld Deposition, June 2015

In The Third Judicial District County of Dona Ana, New Mexico
Betty Gonzalez, et al. Plaintiffs vs. Del Oro Dairy, Del Oro Real Estate LLC, Jerry Settles and Deward DeRuyter, Defendants
Rosenfeld Deposition: July 2015

In The Iowa District Court For Muscatine County
Laurie Freeman et. al. Plaintiffs vs. Grain Processing Corporation, Defendant
Case No 4980
Rosenfeld Deposition: May 2015

In the Circuit Court of the 17th Judicial Circuit, in and For Broward County, Florida
Walter Hinton, et. al. Plaintiff, vs. City of Fort Lauderdale, Florida, a Municipality, Defendant.
Case Number CACE07030358 (26)
Rosenfeld Deposition: December 2014

In the United States District Court Western District of Oklahoma
Tommy McCarty, et al., Plaintiffs, v. Oklahoma City Landfill, LLC d/b/a Southeast Oklahoma City Landfill, et al. Defendants.
Case No. 5:12-cv-01152-C
Rosenfeld Deposition: July 2014

In the County Court of Dallas County Texas
Lisa Parr et al, *Plaintiff*, vs. Aruba et al, *Defendant.*
Case Number cc-11-01650-E
Rosenfeld Deposition: March and September 2013
Rosenfeld Trial: April 2014

In the Court of Common Pleas of Tuscarawas County Ohio
John Michael Abicht, et al., *Plaintiffs,* vs. Republic Services, Inc., et al., *Defendants*
Case Number: 2008 CT 10 0741 (Cons. w/ 2009 CV 10 0987)
Rosenfeld Deposition: October 2012

In the United States District Court of Southern District of Texas Galveston Division
Kyle Cannon, Eugene Donovan, Genaro Ramirez, Carol Sassler, and Harvey Walton, each Individually and on behalf of those similarly situated, *Plaintiffs,* vs. BP Products North America, Inc., *Defendant.*
Case 3:10-cv-00622
Rosenfeld Deposition: February 2012
Rosenfeld Trial: April 2013

In the Circuit Court of Baltimore County Maryland
Philip E. Cvach, II et al., *Plaintiffs* vs. Two Farms, Inc. d/b/a Royal Farms, Defendants
Case Number: 03-C-12-012487 OT
Rosenfeld Deposition: September 2013

EXHIBIT C

SWAPE Technical Consultation, Data Analysis and Litigation Support for the Environment

1640 5th St.., Suite 204 Santa
Santa Monica, California 90401
Tel: (949) 887-9013
Email: mhagemann@swape.com

Matthew F. Hagemann, P.G., C.Hg., QSD, QSP

Geologic and Hydrogeologic Characterization
Industrial Stormwater Compliance
Investigation and Remediation Strategies
Litigation Support and Testifying Expert
CEQA Review

Education:

M.S. Degree, Geology, California State University Los Angeles, Los Angeles, CA, 1984.
B.A. Degree, Geology, Humboldt State University, Arcata, CA, 1982.

Professional Certifications:

California Professional Geologist
California Certified Hydrogeologist
Qualified SWPPP Developer and Practitioner

Professional Experience:

Matt has 25 years of experience in environmental policy, assessment and remediation. He spent nine years with the U.S. EPA in the RCRA and Superfund programs and served as EPA's Senior Science Policy Advisor in the Western Regional Office where he identified emerging threats to groundwater from perchlorate and MTBE. While with EPA, Matt also served as a Senior Hydrogeologist in the oversight of the assessment of seven major military facilities undergoing base closure. He led numerous enforcement actions under provisions of the Resource Conservation and Recovery Act (RCRA) while also working with permit holders to improve hydrogeologic characterization and water quality monitoring.

Matt has worked closely with U.S. EPA legal counsel and the technical staff of several states in the application and enforcement of RCRA, Safe Drinking Water Act and Clean Water Act regulations. Matt has trained the technical staff in the States of California, Hawaii, Nevada, Arizona and the Territory of Guam in the conduct of investigations, groundwater fundamentals, and sampling techniques.

Positions Matt has held include:

- Founding Partner, Soil/Water/Air Protection Enterprise (SWAPE) (2003 – present);
- Geology Instructor, Golden West College, 2010 – 2014;
- Senior Environmental Analyst, Komex H2O Science, Inc. (2000 -- 2003);

- Executive Director, Orange Coast Watch (2001 – 2004);
- Senior Science Policy Advisor and Hydrogeologist, U.S. Environmental Protection Agency (1989–1998);
- Hydrogeologist, National Park Service, Water Resources Division (1998 – 2000);
- Adjunct Faculty Member, San Francisco State University, Department of Geosciences (1993 – 1998);
- Instructor, College of Marin, Department of Science (1990 – 1995);
- Geologist, U.S. Forest Service (1986 – 1998); and
- Geologist, Dames & Moore (1984 – 1986).

Senior Regulatory and Litigation Support Analyst:

With SWAPE, Matt's responsibilities have included:

- Lead analyst and testifying expert in the review of over 100 environmental impact reports since 2003 under CEQA that identify significant issues with regard to hazardous waste, water resources, water quality, air quality, Valley Fever, greenhouse gas emissions, and geologic hazards. Make recommendations for additional mitigation measures to lead agencies at the local and county level to include additional characterization of health risks and implementation of protective measures to reduce worker exposure to hazards from toxins and Valley Fever.
- Stormwater analysis, sampling and best management practice evaluation at industrial facilities.
- Manager of a project to provide technical assistance to a community adjacent to a former Naval shipyard under a grant from the U.S. EPA.
- Technical assistance and litigation support for vapor intrusion concerns.
- Lead analyst and testifying expert in the review of environmental issues in license applications for large solar power plants before the California Energy Commission.
- Manager of a project to evaluate numerous formerly used military sites in the western U.S.
- Manager of a comprehensive evaluation of potential sources of perchlorate contamination in Southern California drinking water wells.
- Manager and designated expert for litigation support under provisions of Proposition 65 in the review of releases of gasoline to sources drinking water at major refineries and hundreds of gas stations throughout California.
- Expert witness on two cases involving MTBE litigation.
- Expert witness and litigation support on the impact of air toxins and hazards at a school.
- Expert witness in litigation at a former plywood plant.

With Komex H2O Science Inc., Matt's duties included the following:

- Senior author of a report on the extent of perchlorate contamination that was used in testimony by the former U.S. EPA Administrator and General Counsel.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of MTBE use, research, and regulation.
- Senior researcher in the development of a comprehensive, electronically interactive chronology of perchlorate use, research, and regulation.
- Senior researcher in a study that estimates nationwide costs for MTBE remediation and drinking water treatment, results of which were published in newspapers nationwide and in testimony against provisions of an energy bill that would limit liability for oil companies.
- Research to support litigation to restore drinking water supplies that have been contaminated by MTBE in California and New York.

- Expert witness testimony in a case of oil production-related contamination in Mississippi.
- Lead author for a multi-volume remedial investigation report for an operating school in Los Angeles that met strict regulatory requirements and rigorous deadlines.

- Development of strategic approaches for cleanup of contaminated sites in consultation with clients and regulators.

Executive Director:

As Executive Director with Orange Coast Watch, Matt led efforts to restore water quality at Orange County beaches from multiple sources of contamination including urban runoff and the discharge of wastewater. In reporting to a Board of Directors that included representatives from leading Orange County universities and businesses, Matt prepared issue papers in the areas of treatment and disinfection of wastewater and control of the discharge of grease to sewer systems. Matt actively participated in the development of countywide water quality permits for the control of urban runoff and permits for the discharge of wastewater. Matt worked with other nonprofits to protect and restore water quality, including Surfrider, Natural Resources Defense Council and Orange County CoastKeeper as well as with business institutions including the Orange County Business Council.

Hydrogeology:

As a Senior Hydrogeologist with the U.S. Environmental Protection Agency, Matt led investigations to characterize and cleanup closing military bases, including Mare Island Naval Shipyard, Hunters Point Naval Shipyard, Treasure Island Naval Station, Alameda Naval Station, Moffett Field, Mather Army Airfield, and Sacramento Army Depot. Specific activities were as follows:

- Led efforts to model groundwater flow and contaminant transport, ensured adequacy of monitoring networks, and assessed cleanup alternatives for contaminated sediment, soil, and groundwater.
- Initiated a regional program for evaluation of groundwater sampling practices and laboratory analysis at military bases.
- Identified emerging issues, wrote technical guidance, and assisted in policy and regulation development through work on four national U.S. EPA workgroups, including the Superfund Groundwater Technical Forum and the Federal Facilities Forum.

At the request of the State of Hawaii, Matt developed a methodology to determine the vulnerability of groundwater to contamination on the islands of Maui and Oahu. He used analytical models and a GIS to show zones of vulnerability, and the results were adopted and published by the State of Hawaii and County of Maui.

As a hydrogeologist with the EPA Groundwater Protection Section, Matt worked with provisions of the Safe Drinking Water Act and NEPA to prevent drinking water contamination. Specific activities included the following:

- Received an EPA Bronze Medal for his contribution to the development of national guidance for the protection of drinking water.
- Managed the Sole Source Aquifer Program and protected the drinking water of two communities through designation under the Safe Drinking Water Act. He prepared geologic reports, conducted public hearings, and responded to public comments from residents who were very concerned about the impact of designation.

- Reviewed a number of Environmental Impact Statements for planned major developments, including large hazardous and solid waste disposal facilities, mine reclamation, and water transfer.

Matt served as a hydrogeologist with the RCRA Hazardous Waste program. Duties were as follows:

- Supervised the hydrogeologic investigation of hazardous waste sites to determine compliance with Subtitle C requirements.
- Reviewed and wrote "part B" permits for the disposal of hazardous waste.
- Conducted RCRA Corrective Action investigations of waste sites and led inspections that formed the basis for significant enforcement actions that were developed in close coordination with U.S. EPA legal counsel.
- Wrote contract specifications and supervised contractor's investigations of waste sites.

With the National Park Service, Matt directed service-wide investigations of contaminant sources to prevent degradation of water quality, including the following tasks:

- Applied pertinent laws and regulations including CERCLA, RCRA, NEPA, NRDA, and the Clean Water Act to control military, mining, and landfill contaminants.
- Conducted watershed-scale investigations of contaminants at parks, including Yellowstone and Olympic National Park.
- Identified high-levels of perchlorate in soil adjacent to a national park in New Mexico and advised park superintendent on appropriate response actions under CERCLA.
- Served as a Park Service representative on the Interagency Perchlorate Steering Committee, a national workgroup.
- Developed a program to conduct environmental compliance audits of all National Parks while serving on a national workgroup.
- Co-authored two papers on the potential for water contamination from the operation of personal watercraft and snowmobiles, these papers serving as the basis for the development of nation-wide policy on the use of these vehicles in National Parks.
- Contributed to the Federal Multi-Agency Source Water Agreement under the Clean Water Action Plan.

Policy:

Served senior management as the Senior Science Policy Advisor with the U.S. Environmental Protection Agency, Region 9. Activities included the following:

- Advised the Regional Administrator and senior management on emerging issues such as the potential for the gasoline additive MTBE and ammonium perchlorate to contaminate drinking water supplies.
- Shaped EPA's national response to these threats by serving on workgroups and by contributing to guidance, including the Office of Research and Development publication, Oxygenates in Water: Critical Information and Research Needs.
- Improved the technical training of EPA's scientific and engineering staff.
- Earned an EPA Bronze Medal for representing the region's 300 scientists and engineers in negotiations with the Administrator and senior management to better integrate scientific principles into the policy-making process.
- Established national protocol for the peer review of scientific documents.

Geology:

With the U.S. Forest Service, Matt led investigations to determine hillslope stability of areas proposed for timber harvest in the central Oregon Coast Range. Specific activities were as follows:

- Mapped geology in the field, and used aerial photographic interpretation and mathematical models to determine slope stability.
- Coordinated his research with community members who were concerned with natural resource protection.
- Characterized the geology of an aquifer that serves as the sole source of drinking water for the city of Medford, Oregon.

As a consultant with Dames and Moore, Matt led geologic investigations of two contaminated sites (later listed on the Superfund NPL) in the Portland, Oregon, area and a large hazardous waste site in eastern Oregon. Duties included the following:

- Supervised year-long effort for soil and groundwater sampling.
- Conducted aquifer tests.
- Investigated active faults beneath sites proposed for hazardous waste disposal.

Teaching:

From 1990 to 1998, Matt taught at least one course per semester at the community college and university levels:

- At San Francisco State University, held an adjunct faculty position and taught courses in environmental geology, oceanography (lab and lecture), hydrogeology, and groundwater contamination.
- Served as a committee member for graduate and undergraduate students.
- Taught courses in environmental geology and oceanography at the College of Marin.

Matt taught physical geology (lecture and lab and introductory geology at Golden West College in Huntington Beach, California from 2010 to 2014.

Invited Testimony, Reports, Papers and Presentations:

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Presentation to the Public Environmental Law Conference, Eugene, Oregon.

Hagemann, M.F., 2008. Disclosure of Hazardous Waste Issues under CEQA. Invited presentation to U.S. EPA Region 9, San Francisco, California.

Hagemann, M.F., 2005. Use of Electronic Databases in Environmental Regulation, Policy Making and Public Participation. Brownfields 2005, Denver, Coloradao.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Nevada and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Las Vegas, NV (served on conference organizing committee).

Hagemann, M.F., 2004. Invited testimony to a California Senate committee hearing on air toxins at schools in Southern California, Los Angeles.

Brown, A., Farrow, J., Gray, A. and **Hagemann, M.**, 2004. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to the Ground Water and Environmental Law Conference, National Groundwater Association.

Hagemann, M.F., 2004. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in Arizona and the Southwestern U.S. Presentation to a meeting of the American Groundwater Trust, Phoenix, AZ (served on conference organizing committee).

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River and Impacts to Drinking Water in the Southwestern U.S. Invited presentation to a special committee meeting of the National Academy of Sciences, Irvine, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a tribal EPA meeting, Pechanga, CA.

Hagemann, M.F., 2003. Perchlorate Contamination of the Colorado River. Invited presentation to a meeting of tribal repesentatives, Parker, AZ.

Hagemann, M.F., 2003. Impact of Perchlorate on the Colorado River and Associated Drinking Water Supplies. Invited presentation to the Inter-Tribal Meeting, Torres Martinez Tribe.

Hagemann, M.F., 2003. The Emergence of Perchlorate as a Widespread Drinking Water Contaminant. Invited presentation to the U.S. EPA Region 9.

Hagemann, M.F., 2003. A Deductive Approach to the Assessment of Perchlorate Contamination. Invited presentation to the California Assembly Natural Resources Committee.

Hagemann, M.F., 2003. Perchlorate: A Cold War Legacy in Drinking Water. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. From Tank to Tap: A Chronology of MTBE in Groundwater. Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. A Chronology of MTBE in Groundwater and an Estimate of Costs to Address Impacts to Groundwater. Presentation to the annual meeting of the Society of Environmental Journalists.

Hagemann, M.F., 2002. An Estimate of the Cost to Address MTBE Contamination in Groundwater (and Who Will Pay). Presentation to a meeting of the National Groundwater Association.

Hagemann, M.F., 2002. An Estimate of Costs to Address MTBE Releases from Underground Storage Tanks and the Resulting Impact to Drinking Water Wells. Presentation to a meeting of the U.S. EPA and State Underground Storage Tank Program managers.

Hagemann, M.F., 2001. From Tank to Tap: A Chronology of MTBE in Groundwater. Unpublished report.

Hagemann, M.F., 2001. Estimated Cleanup Cost for MTBE in Groundwater Used as Drinking Water. Unpublished report.

Hagemann, M.F., 2001. Estimated Costs to Address MTBE Releases from Leaking Underground Storage Tanks. Unpublished report.

Hagemann, M.F., and VanMouwerik, M., 1999. Potential Water Quality Concerns Related to Snowmobile Usage. Water Resources Division, National Park Service, Technical Report.

VanMouwerik, M. and **Hagemann, M.F**. 1999, Water Quality Concerns Related to Personal Watercraft Usage. Water Resources Division, National Park Service, Technical Report.

Hagemann, M.F., 1999, Is Dilution the Solution to Pollution in National Parks? The George Wright Society Biannual Meeting, Asheville, North Carolina.

Hagemann, M.F., 1997, The Potential for MTBE to Contaminate Groundwater. U.S. EPA Superfund Groundwater Technical Forum Annual Meeting, Las Vegas, Nevada.

Hagemann, M.F., and Gill, M., 1996, Impediments to Intrinsic Remediation, Moffett Field Naval Air Station, Conference on Intrinsic Remediation of Chlorinated Hydrocarbons, Salt Lake City.

Hagemann, M.F., Fukunaga, G.L., 1996, The Vulnerability of Groundwater to Anthropogenic Contaminants on the Island of Maui, Hawaii. Hawaii Water Works Association Annual Meeting, Maui, October 1996.

Hagemann, M. F., Fukanaga, G. L., 1996, Ranking Groundwater Vulnerability in Central Oahu, Hawaii. Proceedings, Geographic Information Systems in Environmental Resources Management, Air and Waste Management Association Publication VIP-61.

Hagemann, M.F., 1994. Groundwater Characterization and Cleanup at Closing Military Bases in California. Proceedings, California Groundwater Resources Association Meeting.

Hagemann, M.F. and Sabol, M.A., 1993. Role of the U.S. EPA in the High Plains States Groundwater Recharge Demonstration Program. Proceedings, Sixth Biennial Symposium on the Artificial Recharge of Groundwater.

Hagemann, M.F., 1993. U.S. EPA Policy on the Technical Impracticability of the Cleanup of DNAPL-contaminated Groundwater. California Groundwater Resources Association Meeting.

Hagemann, M.F., 1992. Dense Nonaqueous Phase Liquid Contamination of Groundwater: An Ounce of Prevention... Proceedings, Association of Engineering Geologists Annual Meeting, v. 35.

Other Experience:

Selected as subject matter expert for the California Professional Geologist licensing examination, 2009-2011.

From: Vega, Jaqueline
To: Edmelynne V. Hutter
Subject: East of Euclid Avenue, North of Ontario Ranch Road
Date: Monday, February 27, 2023 9:00:37 AM
Attachments: image001.png

Hello Edmelynne,

Thank you for transmitting the above referenced project to ALUC for review. Please note that the proposed project is located outside Riverside County and therefore not within our jurisdiction.

Please referenced Chino Airport Compatibility plan.

Additionally, please note Ontario Airport is another surrounding airport.

Should you have any questions, please contact me.

Jackie Vega
Urban Regional Planner I

Riverside County Airport Land Use Commission
4080 Lemon Street, 14th Floor
Riverside, Ca 92501
(951) 955-0982
Javega@RIVCO.ORG
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County of Riverside California [countyofriverside.us]

From:	Edmelynne V. Hutter
To:	Liao, William
Cc:	SCG SE Region Redlands Utility Request; McCraven, Lawrence
Subject:	RE: Euclid Mixed Use Specific Plan Project PSP22-001
Date:	Thursday, March 2, 2023 2:30:00 PM

Hello William,

Thank you for your email and input. I will inform the builder accordingly.

Regards,
Edmelynne V. Hutter, AICP
Senior Planner

City of Ontario | Planning Department
303 East B Street, Ontario, CA 91764
909.395.2429 direct
ehutter@ontarioca.gov

From: Liao, William <WLiao@socalgas.com>
Sent: Thursday, March 2, 2023 9:58 AM
To: Edmelynne V. Hutter <EHutter@ontarioca.gov>
Cc: SCG SE Region Redlands Utility Request <SCGSERegionRedlandsUtilityRequest@semprautilities.com>; McCraven, Lawrence <LMcCraven@socalgas.com>
Subject: Euclid Mixed Use Specific Plan Project PSP22-001

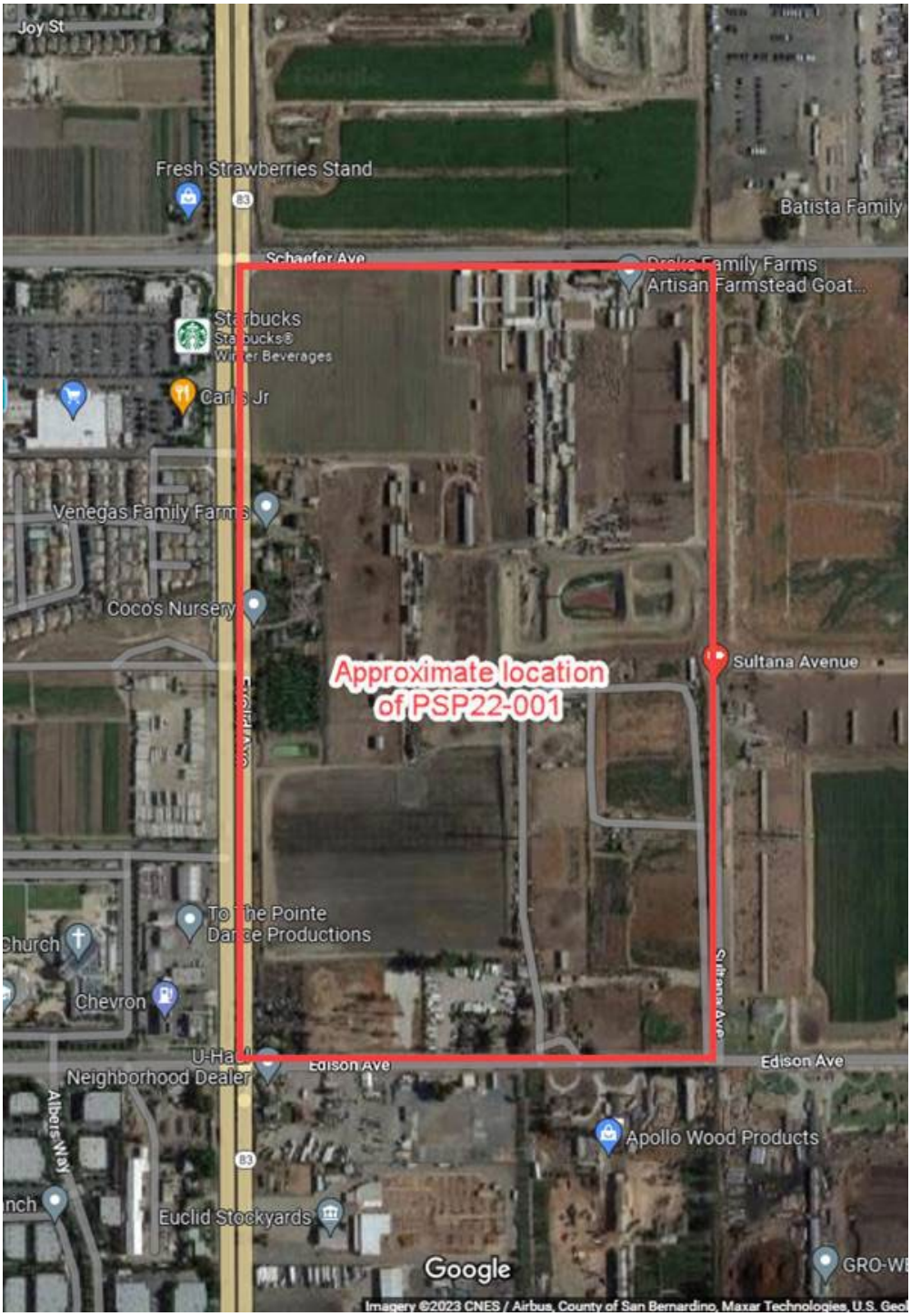
Hi Edmelynne.

I am reviewing the Euclid Mixed Use Specific Plan Project PSP22-001 package and so far I have no concerns. We do have existing gas services into multiple parcels/buildings within the project scope area. I assume these properties will be acquired and the services requested to be abandoned when the project moves forward. My standard request is that builder shall contact USA / Dig Alert prior to any excavation activities, so that our personnel can go out to perform Locate & Mark. Also, if the builders need gas service for any part of the project, please have them visit our Builder Services site to begin the application process as soon as possible, at https://www.socalgas.com/for-your-business/builder-services [socalgas.com].

Please let me know if you have any questions.

Will Liao
Region Planning Supervisor
Redlands HQ / Southeast Region
Desk: 213-244-4543
Mobile: 562-889-1981

Project Description: The Project to be addressed in the EIR includes a Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s), to allow development of up to 290,131 square feet of commercial retail/office uses, a total of 466 residential units, and 1,386,776 square feet of business park uses, on an 84.1-acre site, as described further below. The proposed Specific Plan would bring the Project site zoning into compliance with the adopted TOP 2050


Joy St
Fresh Strawberries Stand
Batista Family
Schaefer Ave
Drake Family Farms
Artisan Farmstead Goat...
Starbucks
Carl's Jr
Venegas Family Farms
Coco's Nursery
Approximate location
of PSP22-001
Sultana Avenue
To The Pointe
Dance Productions
Church
Chevron
Edison Ave
Neighborhood Dealer
Apollo Wood Products
Euclid Stockyards
Google
Imagery ©2023 CNES / Airbus, County of San Bernardino, Maxar Technologies, U.S. Geol

SCAG
INNOVATING FOR A BETTER TOMORROW

SOUTHERN CALIFORNIA
ASSOCIATION OF GOVERNMENTS
900 Wilshire Blvd., Ste. 1700
Los Angeles, CA 90017
T: (213) 236-1800
www.scag.ca.gov

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March 9, 2023

Edmelynne V. Hutter, Senior Planner
City of Ontario, Planning Department
303 East B Street
Ontario, California 91764
Phone: (909) 395-2429
E-mail: ehutter@ontarioca.gov

RE: SCAG Comments on the Notice of Preparation of a Draft Environmental Impact Report for the Euclid Mixed Use Specific Plan Project [SCAG NO. IGR10830]

Dear Edmelynne V. Hutter,

Thank you for submitting the Notice of Preparation of a Draft Environmental Impact Report for the Euclid Mixed Use Specific Plan Project ("proposed project") to the Southern California Association of Governments (SCAG) for review and comment. SCAG is responsible for providing informational resources to regionally significant plans, projects, and programs per the California Environmental Quality Act (CEQA) to facilitate the consistency of these projects with SCAG's adopted regional plans, to be determined by the lead agencies.[1]

Pursuant to Senate Bill (SB) 375, SCAG is the designated Regional Transportation Planning Agency under state law and is responsible for preparation of the Regional Transportation Plan (RTP) including the Sustainable Communities Strategy (SCS). SCAG's feedback is intended to assist local jurisdictions and project proponents to implement projects that have the potential to contribute to attainment of Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS) goals and align with RTP/SCS policies. Finally, SCAG is the authorized regional agency for Intergovernmental Review (IGR) of programs proposed for Federal financial assistance and direct Federal development activities, pursuant to Presidential Executive Order 12372.

SCAG staff has reviewed the Notice of Preparation of a Draft Environmental Impact Report for the Euclid Mixed Use Specific Plan Project in San Bernardino County. The proposed project includes a specific plan, development agreement, development plans, and tentative parcel maps to allow the development of up to 290,131 square feet (SF) of commercial retail/office uses, 466 residential units, and 1,386,776 SF of business park on a 84.1-acre site.

When available, please email environmental documentation to IGR@scag.ca.gov providing, at a minimum, the full public comment period for review.

If you have any questions regarding the attached comments, please contact the Intergovernmental Review (IGR) Program, attn.: Annaleigh Ekman, Senior Regional Planner, at (213) 630-1427 or IGR@scag.ca.gov. Thank you.

Sincerely,

Frank Wen, Ph.D.
Manager, Planning Strategy Department

[1] Lead agencies such as local jurisdictions have the sole discretion in determining a local project's consistency with the 2020 RTP/SCS (Connect SoCal) for the purpose of determining consistency for CEQA.

COMMENTS ON THE NOTICE OF PREPARATION OF A DRAFT ENVIRONMENTAL IMPACT REPORT FOR THE EUCLID MIXED USE SPECIFIC PLAN PROJECT [SCAG NO. IGR10830]

CONSISTENCY WITH CONNECT SOCAL

SCAG provides informational resources to facilitate the consistency of the proposed project with the adopted 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy (RTP/SCS or Connect SoCal). For the purpose of determining consistency with CEQA, lead agencies such as local jurisdictions have the sole discretion in determining a local project's consistency with Connect SoCal.

CONNECT SOCAL GOALS

The SCAG Regional Council fully adopted Connect SoCal in September 2020. Connect SoCal, also known as the 2020 – 2045 RTP/SCS, builds upon and expands land use and transportation strategies established over several planning cycles to increase mobility options and achieve a more sustainable growth pattern. The long-range visioning plan balances future mobility and housing needs with goals for the environment, the regional economy, social equity and environmental justice, and public health. The goals included in Connect SoCal may be pertinent to the proposed project. These goals are meant to provide guidance for considering the proposed project. Among the relevant goals of Connect SoCal are the following:

SCAG CONNECT SOCAL GOALS	
Goal #1:	*Encourage regional economic prosperity and global competitiveness*
Goal #2:	*Improve mobility, accessibility, reliability and travel safety for people and goods*
Goal #3:	*Enhance the preservation, security, and resilience of the regional transportation system*
Goal #4:	*Increase person and goods movement and travel choices within the transportation system*
Goal #5:	*Reduce greenhouse gas emissions and improve air quality*
Goal #6:	*Support healthy and equitable communities*
Goal #7:	*Adapt to a changing climate and support an integrated regional development pattern and transportation network*
Goal #8:	*Leverage new transportation technologies and data-driven solutions that result in more efficient travel*
Goal #9:	*Encourage development of diverse housing types in areas that are supported by multiple transportation options*
Goal #10:	*Promote conservation of natural and agricultural lands and restoration of habitats*

For ease of review, we encourage the use of a side-by-side comparison of SCAG goals with discussions of the consistency, non-consistency or non-applicability of the goals and supportive analysis in a table format. Suggested format is as follows:

SCAG CONNECT SOCAL GOALS		
	Goal	Analysis
Goal #1:	*Encourage regional economic prosperity and global competitiveness*	*Consistent: Statement as to why;* *Not-Consistent: Statement as to why;* *Or* *Not Applicable: Statement as to why;* *DEIR page number reference*
Goal #2:	*Improve mobility, accessibility, reliability and travel safety for people and goods*	*Consistent: Statement as to why;* *Not-Consistent: Statement as to why;* *Or* *Not Applicable: Statement as to why;* *DEIR page number reference*
etc.		etc.

Connect SoCal Strategies

To achieve the goals of Connect SoCal, a wide range of land use and transportation strategies are included in the accompanying twenty (20) technical reports. Of particular note are multiple strategies included in Chapter 3 of Connect SoCal intended to support implementation of the regional Sustainable Communities Strategy (SCS) framed within the context of focusing growth near destinations and mobility options; promoting diverse housing choices; leveraging technology innovations; supporting implementation of sustainability policies; and promoting a Green Region. To view Connect SoCal and the accompanying technical reports, please visit the Connect SoCal webpage. Connect SoCal builds upon the progress from previous RTP/SCS cycles and continues to focus on integrated, coordinated, and balanced planning for land use and transportation that helps the SCAG region strive towards a more sustainable region, while meeting statutory requirements pertinent to RTP/SCSs. These strategies within the regional context are provided as guidance for lead agencies such as local jurisdictions when the proposed project is under consideration.

DEMOGRAPHICS AND GROWTH FORECASTS

A key, formative step in projecting future population, households, and employment through 2045 for Connect SoCal was the generation of a forecast of regional and county level growth in collaboration with expert demographers and economists on Southern California. From there, jurisdictional level forecasts were ground-truthed by subregions and local agencies, which helped SCAG identify opportunities and barriers to future development. This forecast helps the region understand, in a very general sense, where we are expected to grow, and allows SCAG to focus attention on areas that are experiencing change and may have increased transportation needs. After a year-long engagement effort with all 197 jurisdictions one-on-one, 82 percent of SCAG's 197 jurisdictions provided feedback on the forecast of future growth for Connect SoCal. SCAG also sought feedback on potential sustainable growth strategies from a broad range of stakeholder groups – including local jurisdictions, county transportation commissions, other partner agencies, industry groups, community-based organizations, and the general public. Connect SoCal utilizes a bottom-up approach in that total projected growth for each jurisdiction reflects feedback received from jurisdiction staff, including city managers, community development/planning directors, and local staff. Growth at the neighborhood level (i.e., transportation analysis zone (TAZ) reflects entitled projects and adheres to current general and specific plan maximum densities as conveyed by jurisdictions (except in cases where entitled projects and development agreements exceed these capacities as calculated by SCAG). Neighborhood level growth projections also feature strategies that help to reduce greenhouse gas emissions (GHG) from automobiles and light trucks to achieve Southern California's GHG reduction target, approved by the California Air Resources Board (CARB) in accordance with state planning law. Connect SoCal's Forecasted Development Pattern is utilized for long range modeling purposes and does not supersede actions taken by elected bodies on future development, including entitlements and development agreements. SCAG does not have the authority to implement the plan -- neither through decisions about what type of development is built where, nor what transportation projects are ultimately built, as Connect

SoCal is adopted at the jurisdictional level. Achieving a sustained regional outcome depends upon informed and intentional local action. To access jurisdictional level growth estimates and forecasts for years 2016 and 2045, please refer to the Connect SoCal Demographics and Growth Forecast Technical Report. The growth forecasts for the region and applicable jurisdictions are below.

	Adopted SCAG Region Wide Forecasts				Adopted City of Ontario Forecasts			
	Year 2020	**Year 2030**	**Year 2035**	**Year 2045**	**Year 2020**	**Year 2030**	**Year 2035**	**Year 2045**
Population	19,517,731	20,821,171	21,443,006	22,503,899	192,072	221,806	236,012	269,050
Households	6,333,458	6,902,821	7,170,110	7,633,451	51,841	60,602	64,787	74,521
Employment	8,695,427	9,303,627	9,566,384	10,048,822	124,571	143,699	152,116	169,331

MITIGATION MEASURES

SCAG staff recommends that you review the Final Program Environmental Impact Report (Final PEIR) for Connect SoCal for guidance, as appropriate. SCAG's Regional Council certified the PEIR and adopted the associated Findings of Fact and a Statement of Overriding Considerations (FOF/SOC) and Mitigation Monitoring and Reporting Program (MMRP) on May 7, 2020 and also adopted a PEIR Addendum and amended the MMRP on September 3, 2020 (please see the PEIR webpage and scroll to the bottom of the page for the PEIR Addendum). The PEIR includes a list of project-level performance standards-based mitigation measures that may be considered for adoption and implementation by lead, responsible, or trustee agencies in the region, as applicable and feasible. Project-level mitigation measures are within responsibility, authority, and/or jurisdiction of project-implementing agency or other public agency serving as lead agency under CEQA in subsequent project- and site- specific design, CEQA review, and decision-making processes, to meet the performance standards for each of the CEQA resource categories.

South Coast
Air Quality Management District
21865 Copley Drive, Diamond Bar, CA 91765-4178
(909) 396-2000 • www.aqmd.gov

SENT VIA E-MAIL: March 10, 2023

ehutter@ontarioca.gov
Edmelynne V. Hutter, AICP, Senior Planner
Planning Department
City of Ontario
303 East B Street,
Ontario, California 91764

Notice of Preparation of a Draft Environmental Impact Report for the Euclid Mixed Use Spec ific Plan Project/ PSP22-001

South Coast Air Quality Management District (South Coast AQMD) staff appreciates the opportunity to comment on the above-mentioned document. Our comments are recommendations on the analysis of potential air quality impacts from the Proposed Project that should be included in the Draft Environmental Impact Report (EIR). Please send a copy of the Draft EIR upon its completion and public release directly to South Coast AQMD as copies of the Draft EIR submitted to the State Clearinghouse are not forwarded. **In addition, please send all appendices and technical documents related to the air quality, health risk, and greenhouse gas analyses and electronic versions of all emission calculation spreadsheets, and air quality modeling and health risk assessment input and output files (not PDF files). Any delays in providing all supporting documentation for our review will require additional review time beyond the end of the comment period.**

CEQA Air Quality Analysis

Staff recommends that the Lead Agency use South Coast AQMD's CEQA Air Quality Handbook and website[1] as guidance when preparing the air quality and greenhouse gas analyses. It is also recommended that the Lead Agency use the CalEEMod[2] land use emissions software, which can estimate pollutant emissions from typical land use development and is the only software model maintained by the California Air Pollution Control Officers Association.

South Coast AQMD has developed both regional and localized significance thresholds. South Coast AQMD staff recommends that the Lead Agency quantify criteria pollutant emissions and compare the emissions to South Coast AQMD's CEQA regional pollutant emissions significance thresholds[3] and localized significance thresholds (LSTs)[4] to determine the Proposed Project's air quality impacts. The localized analysis can be conducted by either using the LST screening tables or performing dispersion modeling.

The Lead Agency should identify any potential adverse air quality impacts that could occur from all phases of the Proposed Project and all air pollutant sources related to the Proposed Project. Air quality impacts from both construction (including demolition, if any) and operations should be calculated. Construction-related air quality impacts typically include, but are not limited to, emissions from the use of

[1] South Coast AQMD's CEQA Handbook and other resources for preparing air quality analyses can be found at: http://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook.
[2] CalEEMod is available free of charge at: www.caleemod.com.
[3] South Coast AQMD's CEQA regional pollutant emissions significance thresholds can be found at: http://www.aqmd.gov/docs/default-source/ceqa/handbook/scaqmd-air-quality-significance-thresholds.pdf.
[4] South Coast AQMD's guidance for performing a localized air quality analysis can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/localized-significance-thresholds.

heavy-duty equipment from grading, earth-loading/unloading, paving, architectural coatings, off-road mobile sources (e.g., heavy-duty construction equipment) and on-road mobile sources (e.g., construction worker vehicle trips, material transport trips, and hauling trips). Operation-related air quality impacts may include, but are not limited to, emissions from stationary sources (e.g., boilers and air pollution control devices), area sources (e.g., solvents and coatings), and vehicular trips (e.g., on- and off-road tailpipe emissions and entrained dust). Air quality impacts from indirect sources, such as sources that generate or attract vehicular trips, should be included in the analysis. Furthermore, emissions from the overlapping construction and operational activities should be combined and compared to South Coast AQMD's regional air quality CEQA ***operational*** thresholds to determine the level of significance.

If the Proposed Project generates diesel emissions from long-term construction or attracts diesel-fueled vehicular trips, especially heavy-duty diesel-fueled vehicles, it is recommended that the Lead Agency perform a mobile source health risk assessment[5].

In the event that implementation of the Proposed Project requires a permit from South Coast AQMD, South Coast AQMD should be identified as a Responsible Agency for the Proposed Project in the Draft EIR. The assumptions in the air quality analysis in the EIR will be the basis for evaluating the permit under CEQA and imposing permit conditions and limits. Questions on permits should be directed to South Coast AQMD's Engineering and Permitting staff at (909) 396-3385.

Mitigation Measures

In the event that the Proposed Project results in significant adverse air quality impacts, CEQA requires that all feasible mitigation measures that go beyond what is required by law be utilized to minimize these impacts. Any impacts resulting from mitigation measures must also be analyzed. Several resources to assist the Lead Agency with identifying potential mitigation measures for the Proposed Project include South Coast AQMD's CEQA Air Quality Handbook,[6] South Coast AQMD's Mitigation Monitoring and Reporting Plan for the 2022 Air Quality Management Plan,[7] and Southern California Association of Government's Mitigation Monitoring and Reporting Plan for the 2020-2045 Regional Transportation Plan/Sustainable Communities Strategy.[8].

South Coast AQMD staff is available to work with the Lead Agency to ensure that air quality, greenhouse gas, and health risk impacts from the Proposed Project are accurately evaluated and mitigated where feasible. If you have any questions regarding this letter, please contact me at swang1@aqmd.gov.

Sincerely,

Sam Wang

Sam Wang
Program Supervisor, CEQA IGR
Planning, Rule Development & Implementation

SW
SBC230214-07
Control Number

[5] South Coast AQMD's guidance for performing a mobile source health risk assessment can be found at: http://www.aqmd.gov/home/regulations/ceqa/air-quality-analysis-handbook/mobile-source-toxics-analysis.
[6] https://www.aqmd.gov/home/rules-compliance/ceqa/air-quality-analysis-handbook
[7] South Coast AQMD's 2022 Air Quality Management Plan can be found at: http://www.aqmd.gov/home/air-quality/clean-air-plans/air-quality-mgt-plan (Chapter 4 - Control Strategy and Implementation).
[8] Southern California Association of Governments' 2020-2045 RTP/SCS can be found at: https://www.connectsocal.org/Documents/PEIR/certified/Exhibit-A_ConnectSoCal_PEIR.pdf.

EUNICE M. ULLOA
Mayor

KAREN C. COMSTOCK
Mayor Pro Tem

CITY of CHINO

CURTIS BURTON
CHRISTOPHER FLORES
MARC LUCIO
Council Members

DR. LINDA REICH
City Manager

March 13, 2023

Edmelynne V. Hutter, Senior Planner
City of Ontario Planning Department
303 East "B" Street
Ontario, CA 91764

Re: Notice of Preparation of an EIR: Euclid Mixed Use Specific Plan Environmental Impact Report

Dear Edmelynne,

This letter is in response to the Notice of Preparation and Public Scoping Meeting Notice for an Environmental Impact Report for the Proposed Euclid Mixed Use Specific Plan, made available on February 7, 2023. Thank you for giving the City of Chino the opportunity to review the information and provide comment. The City's comments are outlined below:

Traffic / Transportation

1. Any intersections in Chino where project trips are likely to reach 50 peak hour trips will be included for evaluation within the Project's EIR per Chino TIA Guidelines.
2. Access points along Euclid should be minimized to meet/maintain the roadway classification of an expressway when considering the project's internal roadway network alignment.

Public Works

1. The project is in the vicinity of the City of Chino's water treatment facility. Grading and other associated construction activities performed at the various phases of development are pertinent to adhere to the State Water Resources Control Board's General Permit requirements to control dust and other pollution.
2. The City of Chino has critical water main infrastructure within the right-of-way of Schaefer Avenue. Temporary and permanent construction activities shall provide protection of the existing 16" and 18" water mains. Installation of any sewer lines 24" or larger within 10 feet of the City of Chino water mains should be reviewed by City of Chino Water Division.
3. Additionally, take note of the uses and setbacks on the south side of Schaefer, as these would likely extend easterly to the EWTF.
4. The SCE easement which also extends to the EWTF may also be affected by said setbacks.

13220 Central Avenue, Chino, California 91710
Mailing Address: P.O. Box 667, Chino, California 91708-0667
(909) 334-3250 • (909) 334-3720 Fax
Web Site: www.cityofchino.org

If you have any questions, please contact Chris Cortez, Assistant Planner, by email at ccortez@cityofchino.org, or by phone at 909-334-3250.

Sincerely,

Chris Cortez
Assistant Planner

cc: Michael Hitz, AICP, Principal Planner
Dennis Ralls, T.E., Transportation Manager
Natalie Avila, E.I.T., Associate Engineer

03/13/2023

VIA EMAIL ONLY

Edmelynne V. Hutter
City of Ontario Planning Department
303 East B Street
Ontario, CA 91764
Email: ehutter@ontarioca.gov

RE: NOP Comments for Euclid Mixed Use Specific Plan Project

Dear Ms. Hutter,

On behalf of Californians Allied for a Responsible Economy ("CARE CA") thank you for the opportunity to provide comments on the Notice of Preparation ("NOP") for environmental review of the Euclid Mixed Use Specific Plan ("Project"). The Project applicant, RCCD Inc., proposes a Specific Plan to allow development of up to 290,131 square feet of commercial retail/office uses, a total of 466 residential units, and 1,386,776 square feet of business park uses, on an 84.1-acre site. The Project requires approval for a Specific Plan, Development Agreement, Development Plan(s), and Tentative Parcel Map(s).

The NOP identifies the Project's potentially significant impacts to include all considerations under CEQA. CARE CA respectfully requests complete analysis of these impacts, imposition of all feasible mitigation and study of a reasonable range of alternatives, including at least two environmentally superior alternatives to the Project.

In addition, we request that the City take into consideration the following comments:

i) Project Objectives: The City should avoid developing project objectives that are so narrow as to exclude any meaningful alternative other than the Project. Such a narrow approach for describing project objectives is illegal because it ensures that the alternatives analysis is essentially useless and foregone conclusion.

ii) Air Quality & Public Health: CARE CA has an interest in air quality and public health. The City must make all efforts to minimize air quality effects to the greatest extent possible. This in part means that a Health Risk Assessment must be prepared as part of the DEIR. The HRA should include both construction and operational diesel PM emissions and cancer risk assessment, and account for other emission sources such as backup generators.

iii) Greenhouse Gas Emissions: The NOP identifies the Project's impact on greenhouse gas emissions (GHG) as potentially significant. In the DEIR analysis, the City has the discretion to quantify GHG emissions resulting from a project and/or rely on a qualitative analysis or performance-based standards "based to the extent possible on scientific and factual data" Guidelines §,15064, subd. (b).

To determine the significance of the Project's GHG, the City should avoid attempts at threshold shopping to secure a favorable less than significant result for the Project. If the City adopts a qualitative analysis, then the DEIR should provide a detailed explanation if numeric thresholds, adopted by various air districts are not used in the analysis. We also urge the City to adopt thresholds that embody climate change's existential threat to humankind. For instance, the City can apply the net zero emissions model advocated by environmental groups such as Earthjustice. Using such a model will enable the City to require effective measures that reduce GHGs or even achieve net zero emissions.

Aside from identifying an appropriate threshold backed with substantial evidence, we expect a detailed discussion on the Applicant's plan to offset the Project's GHG emissions. For instance, a plan that uses parking as an opportunity to address potential air quality, GHG and traffic impacts should be considered.

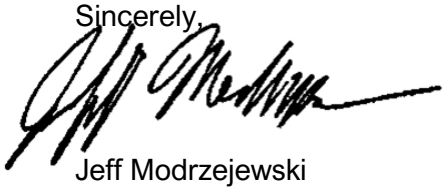
iv) Mitigation measures: Mitigation measures must be effective and enforceable. Every effort must be made to incorporate modern technology in the mitigation measures and MMRP. For example, a requirement that all off-road equipment and trucks using the site during construction and operations be zero emission, near-zero emissions or alternative-fueled vehicle would both reduce and/or eliminate air pollution impacts and CO2 emissions.

Mitigation measures can also include requirements to install cool roofs to reduce operational energy demand, solar panels to generate energy, and provision of EV charging infrastructure.

v) Full Disclosure: Provide all sources and referenced materials when the DEIR is made available.

Thank you for the opportunity to submit NOP comments. CARE CA respectfully urges the City to take this opportunity to protect the environment and the community to the maximum extent feasible. We look forward to reviewing and commenting on subsequent environmental review documents when these documents are released for public review.

Sincerely,



Jeff Modrzejewski
Executive Director

APPENDIX B

AIR QUALITY – GREENHOUSE GAS EMISSIONS

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AIR QUALITY EMISSIONS MODEL DATA

Euclid MUSP (Cars) Detailed Report

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5.10.4. Landscape Equipment - Mitigated

5.11. Operational Energy Consumption

5.11.1. Unmitigated

5.11.2. Mitigated

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

5.12.2. Mitigated

5.13. Operational Waste Generation

5.13.1. Unmitigated

5.13.2. Mitigated

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

5.14.2. Mitigated

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

5.15.2. Mitigated

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

5.16.2. Process Boilers

5.17. User Defined

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

5.18.1.2. Mitigated

5.18.2. Sequestration

5.18.2.1. Unmitigated

5.18.2.2. Mitigated

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

6.2. Initial Climate Risk Scores

6.3. Adjusted Climate Risk Scores

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

7.2. Healthy Places Index Scores

7.3. Overall Health & Equity Scores

7.4. Health & Equity Measures

7.5. Evaluation Scorecard

7.6. Health & Equity Custom Measures

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Euclid MUSP (Cars)
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	34.00122737629788, -117.64808448425514
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5259
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Unrefrigerated Warehouse-No Rail	809	1000sqft	23.5	809,217	216,363	—	—	—
Industrial Park	191	1000sqft	6.38	191,378	86,491	—	—	—
Parking Lot	24.0	Acre	24.0	0.00	0.00	—	—	—

Other Asphalt Surfaces	12.0	Acre	12.0	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Area Sources	AS-2	Use Low-VOC Paints

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	3.43	4.29	12.0	64.9	0.07	0.15	7.09	7.24	0.15	2.68	2.78	—	15,317	15,317	0.82	1.01	39.4	15,679
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.10	4.89	17.7	92.9	0.14	0.28	9.86	10.1	0.27	2.76	3.04	—	22,103	22,103	1.16	1.15	1.08	22,476
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.08	1.93	7.63	34.3	0.05	0.09	4.70	4.79	0.09	1.17	1.25	—	9,388	9,388	0.53	0.66	11.0	9,610
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.38	0.35	1.39	6.26	0.01	0.02	0.86	0.87	0.02	0.21	0.23	—	1,554	1,554	0.09	0.11	1.82	1,591

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.82	0.76	7.20	37.5	0.06	0.13	5.34	5.44	0.13	2.68	2.78	—	7,343	7,343	0.39	0.36	5.25	7,394
2024	3.43	4.29	12.0	64.9	0.07	0.15	7.09	7.24	0.15	1.72	1.87	—	15,317	15,317	0.82	1.01	39.4	15,679
2025	2.87	2.30	9.50	50.1	0.06	0.12	6.90	7.01	0.12	1.68	1.79	—	13,379	13,379	0.74	0.99	36.2	13,729
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.81	0.75	5.14	37.1	0.06	0.13	2.77	2.90	0.13	1.04	1.17	—	7,319	7,319	0.33	0.13	0.06	7,367
2024	4.10	4.89	17.7	92.9	0.14	0.28	9.86	10.1	0.27	2.76	3.04	—	22,103	22,103	1.16	1.15	1.08	22,476
2025	2.74	2.17	9.94	42.0	0.06	0.12	6.90	7.01	0.12	1.68	1.79	—	12,889	12,889	0.74	0.99	0.94	13,205
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.28	0.23	2.06	11.1	0.02	0.04	1.13	1.17	0.04	0.36	0.40	—	2,388	2,388	0.12	0.07	0.49	2,413
2024	2.08	1.93	7.63	34.3	0.05	0.09	4.70	4.79	0.09	1.17	1.25	—	9,388	9,388	0.53	0.66	11.0	9,610
2025	0.97	0.76	3.59	15.4	0.02	0.04	2.43	2.47	0.04	0.59	0.63	—	4,592	4,592	0.26	0.35	5.55	4,709
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.05	0.04	0.38	2.03	< 0.005	0.01	0.21	0.21	0.01	0.07	0.07	—	395	395	0.02	0.01	0.08	400
2024	0.38	0.35	1.39	6.26	0.01	0.02	0.86	0.87	0.02	0.21	0.23	—	1,554	1,554	0.09	0.11	1.82	1,591
2025	0.18	0.14	0.66	2.80	< 0.005	0.01	0.44	0.45	0.01	0.11	0.12	—	760	760	0.04	0.06	0.92	780

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2023	0.82	0.76	7.20	37.5	0.06	0.13	5.34	5.44	0.13	2.68	2.78	—	7,343	7,343	0.39	0.36	5.25	7,394
2024	3.43	4.29	12.0	64.9	0.07	0.15	7.09	7.24	0.15	1.72	1.87	—	15,317	15,317	0.82	1.01	39.4	15,679
2025	2.87	2.30	9.50	50.1	0.06	0.12	6.90	7.01	0.12	1.68	1.79	—	13,379	13,379	0.74	0.99	36.2	13,729
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.81	0.75	5.14	37.1	0.06	0.13	2.77	2.90	0.13	1.04	1.17	—	7,319	7,319	0.33	0.13	0.06	7,367
2024	4.10	4.89	17.7	92.9	0.14	0.28	9.86	10.1	0.27	2.76	3.04	—	22,103	22,103	1.16	1.15	1.08	22,476
2025	2.74	2.17	9.94	42.0	0.06	0.12	6.90	7.01	0.12	1.68	1.79	—	12,889	12,889	0.74	0.99	0.94	13,205
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.28	0.23	2.06	11.1	0.02	0.04	1.13	1.17	0.04	0.36	0.40	—	2,388	2,388	0.12	0.07	0.49	2,413
2024	2.08	1.93	7.63	34.3	0.05	0.09	4.70	4.79	0.09	1.17	1.25	—	9,388	9,388	0.53	0.66	11.0	9,610
2025	0.97	0.76	3.59	15.4	0.02	0.04	2.43	2.47	0.04	0.59	0.63	—	4,592	4,592	0.26	0.35	5.55	4,709
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2023	0.05	0.04	0.38	2.03	< 0.005	0.01	0.21	0.21	0.01	0.07	0.07	—	395	395	0.02	0.01	0.08	400
2024	0.38	0.35	1.39	6.26	0.01	0.02	0.86	0.87	0.02	0.21	0.23	—	1,554	1,554	0.09	0.11	1.82	1,591
2025	0.18	0.14	0.66	2.80	< 0.005	0.01	0.44	0.45	0.01	0.11	0.12	—	760	760	0.04	0.06	0.92	780

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	14.0	36.8	9.52	111	0.18	0.55	5.41	5.96	0.56	0.93	1.50	981	36,373	37,353	101	1.56	21,673	62,020
Mit.	14.0	34.4	9.52	111	0.18	0.55	5.41	5.96	0.56	0.93	1.50	981	36,373	37,353	101	1.56	21,673	62,020
% Reduced	—	7%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	5.98	29.4	9.52	55.7	0.16	0.49	5.41	5.91	0.49	0.93	1.42	981	35,056	36,036	101	1.58	21,617	60,655
Mit.	5.98	27.0	9.52	55.7	0.16	0.49	5.41	5.91	0.49	0.93	1.42	981	35,056	36,036	101	1.58	21,617	60,655
% Reduced	—	8%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	11.2	34.3	9.87	87.7	0.17	0.53	5.41	5.95	0.54	0.93	1.47	981	35,356	36,336	101	1.59	21,640	60,980
Mit.	11.2	31.9	9.87	87.7	0.17	0.53	5.41	5.95	0.54	0.93	1.47	981	35,356	36,336	101	1.59	21,640	60,980
% Reduced	—	7%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.05	6.25	1.80	16.0	0.03	0.10	0.99	1.09	0.10	0.17	0.27	162	5,854	6,016	16.7	0.26	3,583	10,096
Mit.	2.05	5.81	1.80	16.0	0.03	0.10	0.99	1.09	0.10	0.17	0.27	162	5,854	6,016	16.7	0.26	3,583	10,096
% Reduced	—	7%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.65	5.19	3.61	63.1	0.14	0.07	5.41	5.48	0.07	0.93	1.00	—	14,264	14,264	0.45	0.35	57.2	14,437
Area	7.74	31.3	0.37	43.5	< 0.005	0.06	—	0.06	0.08	—	0.08	—	179	179	0.01	< 0.005	—	180
Energy	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	19,598	19,598	1.39	0.11	—	19,666
Water	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242

Waste	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Total	14.0	36.8	9.52	111	0.18	0.55	5.41	5.96	0.56	0.93	1.50	981	36,373	37,353	101	1.56	21,673	62,020
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.37	4.90	3.97	51.0	0.13	0.07	5.41	5.48	0.07	0.93	1.00	—	13,126	13,126	0.47	0.38	1.48	13,251
Area	—	24.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	19,598	19,598	1.39	0.11	—	19,666
Water	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242
Waste	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Total	5.98	29.4	9.52	55.7	0.16	0.49	5.41	5.91	0.49	0.93	1.42	981	35,056	36,036	101	1.58	21,617	60,655
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.33	4.86	4.07	53.2	0.13	0.07	5.41	5.48	0.07	0.93	1.00	—	13,303	13,303	0.47	0.38	24.7	13,454
Area	5.30	29.1	0.25	29.8	< 0.005	0.04	—	0.04	0.05	—	0.05	—	123	123	0.01	< 0.005	—	123
Energy	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	19,598	19,598	1.39	0.11	—	19,666
Water	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242
Waste	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Total	11.2	34.3	9.87	87.7	0.17	0.53	5.41	5.95	0.54	0.93	1.47	981	35,356	36,336	101	1.59	21,640	60,980
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.97	0.89	0.74	9.71	0.02	0.01	0.99	1.00	0.01	0.17	0.18	—	2,202	2,202	0.08	0.06	4.09	2,227
Area	0.97	5.31	0.05	5.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.3	20.3	< 0.005	< 0.005	—	20.4
Energy	0.11	0.06	1.01	0.85	0.01	0.08	—	0.08	0.08	—	0.08	—	3,245	3,245	0.23	0.02	—	3,256
Water	—	—	—	—	—	—	—	—	—	—	—	73.4	386	459	7.55	0.18	—	702
Waste	—	—	—	—	—	—	—	—	—	—	—	89.0	0.00	89.0	8.89	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,579	3,579

Total	2.05	6.25	1.80	16.0	0.03	0.10	0.99	1.09	0.10	0.17	0.27	162	5,854	6,016	16.7	0.26	3,583	10,096

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.65	5.19	3.61	63.1	0.14	0.07	5.41	5.48	0.07	0.93	1.00	—	14,264	14,264	0.45	0.35	57.2	14,437
Area	7.74	28.9	0.37	43.5	< 0.005	0.06	—	0.06	0.08	—	0.08	—	179	179	0.01	< 0.005	—	180
Energy	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	19,598	19,598	1.39	0.11	—	19,666
Water	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242
Waste	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Total	14.0	34.4	9.52	111	0.18	0.55	5.41	5.96	0.56	0.93	1.50	981	36,373	37,353	101	1.56	21,673	62,020
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.37	4.90	3.97	51.0	0.13	0.07	5.41	5.48	0.07	0.93	1.00	—	13,126	13,126	0.47	0.38	1.48	13,251
Area	—	21.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Energy	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	19,598	19,598	1.39	0.11	—	19,666
Water	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242
Waste	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Total	5.98	27.0	9.52	55.7	0.16	0.49	5.41	5.91	0.49	0.93	1.42	981	35,056	36,036	101	1.58	21,617	60,655
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	5.33	4.86	4.07	53.2	0.13	0.07	5.41	5.48	0.07	0.93	1.00	—	13,303	13,303	0.47	0.38	24.7	13,454
Area	5.30	26.7	0.25	29.8	< 0.005	0.04	—	0.04	0.05	—	0.05	—	123	123	0.01	< 0.005	—	123

Energy	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	19,598	19,598	1.39	0.11	—	19,666
Water	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242
Waste	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Total	11.2	31.9	9.87	87.7	0.17	0.53	5.41	5.95	0.54	0.93	1.47	981	35,356	36,336	101	1.59	21,640	60,980
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	0.97	0.89	0.74	9.71	0.02	0.01	0.99	1.00	0.01	0.17	0.18	—	2,202	2,202	0.08	0.06	4.09	2,227
Area	0.97	4.87	0.05	5.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.3	20.3	< 0.005	< 0.005	—	20.4
Energy	0.11	0.06	1.01	0.85	0.01	0.08	—	0.08	0.08	—	0.08	—	3,245	3,245	0.23	0.02	—	3,256
Water	—	—	—	—	—	—	—	—	—	—	—	73.4	386	459	7.55	0.18	—	702
Waste	—	—	—	—	—	—	—	—	—	—	—	89.0	0.00	89.0	8.89	0.00	—	311
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,579	3,579
Total	2.05	5.81	1.80	16.0	0.03	0.10	0.99	1.09	0.10	0.17	0.27	162	5,854	6,016	16.7	0.26	3,583	10,096

3. Construction Emissions Details

3.1. Demolition (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	4.51	18.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	2.51	2.51	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.56	2.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	422	422	0.02	< 0.005	—	424
Demolition	—	—	—	—	—	—	0.31	0.31	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.41	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	69.9	69.9	< 0.005	< 0.005	—	70.2
Demolition	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.39	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	220	220	0.01	0.01	0.94	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.28	0.04	2.61	1.45	0.01	0.03	0.54	0.56	0.03	0.15	0.17	—	2,069	2,069	0.24	0.33	4.31	2,177
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.2	25.2	< 0.005	< 0.005	0.05	25.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.34	0.18	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	255	255	0.03	0.04	0.23	268

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.18	4.18	< 0.005	< 0.005	0.01	4.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.2	42.2	< 0.005	0.01	0.04	44.4

3.2. Demolition (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	4.51	18.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	2.51	2.51	—	0.38	0.38	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.56	2.24	< 0.005	0.01	—	0.01	0.01	—	0.01	—	422	422	0.02	< 0.005	—	424
Demolition	—	—	—	—	—	—	0.31	0.31	—	0.05	0.05	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.10	0.41	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	69.9	69.9	< 0.005	< 0.005	—	70.2

Demolitio	—	—	—	—	—	—	0.06	0.06	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.39	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	220	220	0.01	0.01	0.94	224
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.28	0.04	2.61	1.45	0.01	0.03	0.54	0.56	0.03	0.15	0.17	—	2,069	2,069	0.24	0.33	4.31	2,177
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.14	0.00	0.00	0.02	0.02	0.00	0.01	0.01	—	25.2	25.2	< 0.005	< 0.005	0.05	25.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.03	0.01	0.34	0.18	< 0.005	< 0.005	0.07	0.07	< 0.005	0.02	0.02	—	255	255	0.03	0.04	0.23	268
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.18	4.18	< 0.005	< 0.005	0.01	4.24
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.06	0.03	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	42.2	42.2	< 0.005	0.01	0.04	44.4

3.3. Site Preparation (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.62	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	257	257	0.01	0.01	1.10	261

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.55	6.55	< 0.005	< 0.005	0.01	6.64
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	5.11	5.11	—	2.63	2.63	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.07	0.78	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	145	145	0.01	< 0.005	—	146
Dust From Material Movement	—	—	—	—	—	—	0.14	0.14	—	0.07	0.07	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.01	0.14	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.09	1.62	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	257	257	0.01	0.01	1.10	261
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	< 0.005	< 0.005	< 0.005	0.04	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	6.55	6.55	< 0.005	< 0.005	0.01	6.64
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.01	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	1.08	1.08	< 0.005	< 0.005	< 0.005	1.10
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2023) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.93	7.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,382	1,382	0.06	0.01	—	1,386
Dust From Material Movement	—	—	—	—	—	—	0.50	0.50	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	1.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	229	229	0.01	< 0.005	—	230
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.11	1.85	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	294	294	0.01	0.01	1.26	298
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	0.57	0.32	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	451	451	0.05	0.07	0.94	475
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	269	269	0.01	0.01	0.03	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.06	0.01	0.59	0.32	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	451	451	0.05	0.07	0.02	474
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.03	0.31	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	57.2	57.2	< 0.005	< 0.005	0.11	58.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	94.5	94.5	0.01	0.01	0.09	99.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.47	9.47	< 0.005	< 0.005	0.02	9.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.6	15.6	< 0.005	< 0.005	0.01	16.4

3.6. Grading (2023) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,598	6,598	0.27	0.05	—	6,621

Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.93	7.40	0.01	0.03	—	0.03	0.03	—	0.03	—	1,382	1,382	0.06	0.01	—	1,386
Dust From Material Movement	—	—	—	—	—	—	0.50	0.50	—	0.20	0.20	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	1.35	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	229	229	0.01	< 0.005	—	230
Dust From Material Movement	—	—	—	—	—	—	0.09	0.09	—	0.04	0.04	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.12	0.11	0.11	1.85	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	294	294	0.01	0.01	1.26	298
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	0.57	0.32	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	451	451	0.05	0.07	0.94	475
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.11	0.10	0.12	1.39	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	269	269	0.01	0.01	0.03	273
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	0.59	0.32	< 0.005	0.01	0.12	0.12	0.01	0.03	0.04	—	451	451	0.05	0.07	0.02	474
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.03	0.31	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	57.2	57.2	< 0.005	< 0.005	0.11	58.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.01	< 0.005	0.13	0.07	< 0.005	< 0.005	0.02	0.03	< 0.005	0.01	0.01	—	94.5	94.5	0.01	0.01	0.09	99.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.06	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	9.47	9.47	< 0.005	< 0.005	0.02	9.60
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	15.6	15.6	< 0.005	< 0.005	0.01	16.4

3.7. Grading (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.28	2.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	413	413	0.02	< 0.005	—	415
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.40	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	68.4	68.4	< 0.005	< 0.005	—	68.6
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.11	1.28	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	264	264	0.01	0.01	0.03	267
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	0.57	0.31	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	445	445	0.05	0.07	0.02	467
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.8	16.8	< 0.005	< 0.005	0.03	17.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.8	27.8	< 0.005	< 0.005	0.03	29.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	0.01	2.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.61	4.61	< 0.005	< 0.005	< 0.005	4.85

3.8. Grading (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,598	6,598	0.27	0.05	—	6,621
Dust From Material Movement	—	—	—	—	—	—	2.39	2.39	—	0.95	0.95	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.28	2.21	< 0.005	0.01	—	0.01	0.01	—	0.01	—	413	413	0.02	< 0.005	—	415
Dust From Material Movement	—	—	—	—	—	—	0.15	0.15	—	0.06	0.06	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.05	0.40	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	68.4	68.4	< 0.005	< 0.005	—	68.6
Dust From Material Movement	—	—	—	—	—	—	0.03	0.03	—	0.01	0.01	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.11	0.10	0.11	1.28	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	264	264	0.01	0.01	0.03	267
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.06	0.01	0.57	0.31	< 0.005	0.01	0.12	0.13	0.01	0.03	0.04	—	445	445	0.05	0.07	0.02	467
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.08	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	16.8	16.8	< 0.005	< 0.005	0.03	17.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.04	0.02	< 0.005	< 0.005	0.01	0.01	< 0.005	< 0.005	< 0.005	—	27.8	27.8	< 0.005	< 0.005	0.03	29.3
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	2.77	2.77	< 0.005	< 0.005	0.01	2.81
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	< 0.005	< 0.005	0.01	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	4.61	4.61	< 0.005	< 0.005	< 0.005	4.85

3.9. Building Construction (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	1.33	9.38	0.02	0.03	—	0.03	0.03	—	0.03	—	1,572	1,572	0.06	0.01	—	1,577
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	1.71	< 0.005	0.01	—	0.01	0.01	—	0.01	—	260	260	0.01	< 0.005	—	261
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.41	2.20	2.04	35.5	0.00	0.00	5.49	5.49	0.00	1.29	1.29	—	6,050	6,050	0.25	0.21	24.2	6,143
Vendor	0.55	0.15	5.90	3.16	0.04	0.07	1.40	1.48	0.07	0.39	0.46	—	5,142	5,142	0.40	0.77	14.3	5,394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.29	2.07	2.40	26.9	0.00	0.00	5.49	5.49	0.00	1.29	1.29	—	5,545	5,545	0.26	0.21	0.63	5,615
Vendor	0.54	0.14	6.14	3.21	0.04	0.07	1.40	1.48	0.07	0.39	0.46	—	5,144	5,144	0.40	0.77	0.37	5,383
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.49	1.35	1.57	18.5	0.00	0.00	3.58	3.58	0.00	0.84	0.84	—	3,687	3,687	0.17	0.14	6.85	3,739
Vendor	0.35	0.09	4.05	2.09	0.02	0.05	0.92	0.96	0.05	0.25	0.30	—	3,371	3,371	0.26	0.50	4.04	3,532
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.29	3.38	0.00	0.00	0.65	0.65	0.00	0.15	0.15	—	610	610	0.03	0.02	1.13	619
Vendor	0.06	0.02	0.74	0.38	< 0.005	0.01	0.17	0.18	0.01	0.05	0.05	—	558	558	0.04	0.08	0.67	585
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.15	1.33	9.38	0.02	0.03	—	0.03	0.03	—	0.03	—	1,572	1,572	0.06	0.01	—	1,577
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.24	1.71	< 0.005	0.01	—	0.01	0.01	—	0.01	—	260	260	0.01	< 0.005	—	261
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.41	2.20	2.04	35.5	0.00	0.00	5.49	5.49	0.00	1.29	1.29	—	6,050	6,050	0.25	0.21	24.2	6,143
Vendor	0.55	0.15	5.90	3.16	0.04	0.07	1.40	1.48	0.07	0.39	0.46	—	5,142	5,142	0.40	0.77	14.3	5,394
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.29	2.07	2.40	26.9	0.00	0.00	5.49	5.49	0.00	1.29	1.29	—	5,545	5,545	0.26	0.21	0.63	5,615

Vendor	0.54	0.14	6.14	3.21	0.04	0.07	1.40	1.48	0.07	0.39	0.46	—	5,144	5,144	0.40	0.77	0.37	5,383
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.49	1.35	1.57	18.5	0.00	0.00	3.58	3.58	0.00	0.84	0.84	—	3,687	3,687	0.17	0.14	6.85	3,739
Vendor	0.35	0.09	4.05	2.09	0.02	0.05	0.92	0.96	0.05	0.25	0.30	—	3,371	3,371	0.26	0.50	4.04	3,532
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.27	0.25	0.29	3.38	0.00	0.00	0.65	0.65	0.00	0.15	0.15	—	610	610	0.03	0.02	1.13	619
Vendor	0.06	0.02	0.74	0.38	< 0.005	0.01	0.17	0.18	0.01	0.05	0.05	—	558	558	0.04	0.08	0.67	585
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.72	5.07	0.01	0.02	—	0.02	0.02	—	0.02	—	849	849	0.03	0.01	—	852
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	141	141	0.01	< 0.005	—	141
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.14	1.93	1.85	32.7	0.00	0.00	5.49	5.49	0.00	1.29	1.29	—	5,922	5,922	0.25	0.21	22.0	6,012
Vendor	0.50	0.14	5.62	3.04	0.04	0.07	1.40	1.48	0.07	0.39	0.46	—	5,059	5,059	0.39	0.77	14.2	5,312
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.02	1.81	2.04	24.7	0.00	0.00	5.49	5.49	0.00	1.29	1.29	—	5,429	5,429	0.25	0.21	0.57	5,498
Vendor	0.49	0.14	5.87	3.05	0.04	0.07	1.40	1.48	0.07	0.39	0.46	—	5,062	5,062	0.39	0.77	0.37	5,301
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71	0.63	0.78	9.22	0.00	0.00	1.93	1.93	0.00	0.45	0.45	—	1,950	1,950	0.09	0.07	3.36	1,978
Vendor	0.18	0.05	2.09	1.07	0.01	0.03	0.49	0.52	0.03	0.14	0.16	—	1,792	1,792	0.14	0.27	2.19	1,879
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.14	1.68	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	323	323	0.01	0.01	0.56	327

Vendor	0.03	0.01	0.38	0.20	< 0.005	< 0.005	0.09	0.10	< 0.005	0.02	0.03	—	297	297	0.02	0.04	0.36	311
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.08	0.08	0.72	5.07	0.01	0.02	—	0.02	0.02	—	0.02	—	849	849	0.03	0.01	—	852
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.13	0.92	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	141	141	0.01	< 0.005	—	141
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.14	1.93	1.85	32.7	0.00	0.00	5.49	5.49	0.00	1.29	1.29	—	5,922	5,922	0.25	0.21	22.0	6,012
Vendor	0.50	0.14	5.62	3.04	0.04	0.07	1.40	1.48	0.07	0.39	0.46	—	5,059	5,059	0.39	0.77	14.2	5,312
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.02	1.81	2.04	24.7	0.00	0.00	5.49	5.49	0.00	1.29	1.29	—	5,429	5,429	0.25	0.21	0.57	5,498
Vendor	0.49	0.14	5.87	3.05	0.04	0.07	1.40	1.48	0.07	0.39	0.46	—	5,062	5,062	0.39	0.77	0.37	5,301
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.71	0.63	0.78	9.22	0.00	0.00	1.93	1.93	0.00	0.45	0.45	—	1,950	1,950	0.09	0.07	3.36	1,978
Vendor	0.18	0.05	2.09	1.07	0.01	0.03	0.49	0.52	0.03	0.14	0.16	—	1,792	1,792	0.14	0.27	2.19	1,879
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.13	0.11	0.14	1.68	0.00	0.00	0.35	0.35	0.00	0.08	0.08	—	323	323	0.01	0.01	0.56	327
Vendor	0.03	0.01	0.38	0.20	< 0.005	< 0.005	0.09	0.10	< 0.005	0.02	0.03	—	297	297	0.02	0.04	0.36	311
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Paving (2024) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	1.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	1.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.34	1.86	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	265	265	0.01	< 0.005	—	266
Paving	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	43.9	43.9	< 0.005	< 0.005	—	44.0
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	216	216	0.01	0.01	0.86	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	0.96	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	198	198	0.01	0.01	0.02	200
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.18	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.2	35.2	< 0.005	< 0.005	0.07	35.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.83	5.83	< 0.005	< 0.005	0.01	5.91
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Paving (2024) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	1.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,512	1,512	0.06	0.01	—	1,517
Paving	—	1.47	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.03	0.03	0.34	1.86	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	265	265	0.01	< 0.005	—	266
Paving	—	0.26	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.06	0.34	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	43.9	43.9	< 0.005	< 0.005	—	44.0
Paving	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.07	1.27	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	216	216	0.01	0.01	0.86	219
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.09	0.96	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	198	198	0.01	0.01	0.02	200

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.02	0.18	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	35.2	35.2	< 0.005	< 0.005	0.07	35.7
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.03	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	5.83	5.83	< 0.005	< 0.005	0.01	5.91
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.26	3.00	2.13	37.1	0.09	0.04	3.28	3.32	0.04	0.57	0.61	—	8,629	8,629	0.26	0.21	34.6	8,733
Industrial Park	2.26	2.07	1.41	24.3	0.05	0.03	1.96	1.98	0.02	0.34	0.36	—	5,208	5,208	0.18	0.13	20.8	5,274

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.13	0.12	0.08	1.68	< 0.005	< 0.005	0.17	0.18	< 0.005	0.03	0.03	—	426	426	0.01	0.01	1.77	431
Total	5.65	5.19	3.61	63.1	0.14	0.07	5.41	5.48	0.07	0.93	1.00	—	14,264	14,264	0.45	0.35	57.2	14,437
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.10	2.83	2.34	29.9	0.08	0.04	3.28	3.32	0.04	0.57	0.61	—	7,938	7,938	0.27	0.22	0.90	8,013
Industrial Park	2.15	1.96	1.55	19.8	0.05	0.03	1.96	1.98	0.02	0.34	0.36	—	4,799	4,799	0.19	0.14	0.54	4,846
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.13	0.12	0.09	1.32	< 0.005	< 0.005	0.17	0.18	< 0.005	0.03	0.03	—	389	389	0.01	0.01	0.05	392
Total	5.37	4.90	3.97	51.0	0.13	0.07	5.41	5.48	0.07	0.93	1.00	—	13,126	13,126	0.47	0.38	1.48	13,251
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.56	0.51	0.44	5.69	0.01	0.01	0.60	0.61	0.01	0.10	0.11	—	1,332	1,332	0.04	0.04	2.47	1,347
Industrial Park	0.39	0.35	0.29	3.76	0.01	< 0.005	0.36	0.36	< 0.005	0.06	0.07	—	805	805	0.03	0.02	1.49	814
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.02	0.02	0.02	0.25	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	65.3	65.3	< 0.005	< 0.005	0.13	66.0

Total	0.97	0.89	0.74	9.71	0.02	0.01	0.99	1.00	0.01	0.17	0.18	—	2,202	2,202	0.08	0.06	4.09	2,227

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.26	3.00	2.13	37.1	0.09	0.04	3.28	3.32	0.04	0.57	0.61	—	8,629	8,629	0.26	0.21	34.6	8,733
Industrial Park	2.26	2.07	1.41	24.3	0.05	0.03	1.96	1.98	0.02	0.34	0.36	—	5,208	5,208	0.18	0.13	20.8	5,274
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.13	0.12	0.08	1.68	< 0.005	< 0.005	0.17	0.18	< 0.005	0.03	0.03	—	426	426	0.01	0.01	1.77	431
Total	5.65	5.19	3.61	63.1	0.14	0.07	5.41	5.48	0.07	0.93	1.00	—	14,264	14,264	0.45	0.35	57.2	14,437
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	3.10	2.83	2.34	29.9	0.08	0.04	3.28	3.32	0.04	0.57	0.61	—	7,938	7,938	0.27	0.22	0.90	8,013
Industrial Park	2.15	1.96	1.55	19.8	0.05	0.03	1.96	1.98	0.02	0.34	0.36	—	4,799	4,799	0.19	0.14	0.54	4,846
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Other Asphalt Surfaces	0.13	0.12	0.09	1.32	< 0.005	< 0.005	0.17	0.18	< 0.005	0.03	0.03	—	389	389	0.01	0.01	0.05	392
Total	5.37	4.90	3.97	51.0	0.13	0.07	5.41	5.48	0.07	0.93	1.00	—	13,126	13,126	0.47	0.38	1.48	13,251
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.56	0.51	0.44	5.69	0.01	0.01	0.60	0.61	0.01	0.10	0.11	—	1,332	1,332	0.04	0.04	2.47	1,347
Industrial Park	0.39	0.35	0.29	3.76	0.01	< 0.005	0.36	0.36	< 0.005	0.06	0.07	—	805	805	0.03	0.02	1.49	814
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.02	0.02	0.02	0.25	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	65.3	65.3	< 0.005	< 0.005	0.13	66.0
Total	0.97	0.89	0.74	9.71	0.02	0.01	0.99	1.00	0.01	0.17	0.18	—	2,202	2,202	0.08	0.06	4.09	2,227

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,447	5,447	0.34	0.04	—	5,468

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	4,868	4,868	0.30	0.04	—	4,886
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,335	1,335	0.08	0.01	—	1,340
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	1,335	1,335	0.08	0.01	—	1,340
Total	—	—	—	—	—	—	—	—	—	—	—	—	12,985	12,985	0.81	0.10	—	13,034
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,447	5,447	0.34	0.04	—	5,468
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	4,868	4,868	0.30	0.04	—	4,886
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,335	1,335	0.08	0.01	—	1,340
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	1,335	1,335	0.08	0.01	—	1,340
Total	—	—	—	—	—	—	—	—	—	—	—	—	12,985	12,985	0.81	0.10	—	13,034
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	902	902	0.06	0.01	—	905
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	806	806	0.05	0.01	—	809
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	221	221	0.01	< 0.005	—	222

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	221	221	0.01	< 0.005	—	222
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,150	2,150	0.13	0.02	—	2,158

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,447	5,447	0.34	0.04	—	5,468
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	4,868	4,868	0.30	0.04	—	4,886
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,335	1,335	0.08	0.01	—	1,340
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	1,335	1,335	0.08	0.01	—	1,340
Total	—	—	—	—	—	—	—	—	—	—	—	—	12,985	12,985	0.81	0.10	—	13,034
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	5,447	5,447	0.34	0.04	—	5,468
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	4,868	4,868	0.30	0.04	—	4,886

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	1,335	1,335	0.08	0.01	—	1,340
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	1,335	1,335	0.08	0.01	—	1,340
Total	—	—	—	—	—	—	—	—	—	—	—	—	12,985	12,985	0.81	0.10	—	13,034
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	902	902	0.06	0.01	—	905
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	806	806	0.05	0.01	—	809
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	221	221	0.01	< 0.005	—	222
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	—	221	221	0.01	< 0.005	—	222
Total	—	—	—	—	—	—	—	—	—	—	—	—	2,150	2,150	0.13	0.02	—	2,158

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.45	0.23	4.13	3.47	0.02	0.31	—	0.31	0.31	—	0.31	—	4,930	4,930	0.44	0.01	—	4,944

Industrial Park	0.16	0.08	1.41	1.18	0.01	0.11	—	0.11	0.11	—	0.11	—	1,683	1,683	0.15	< 0.005	—	1,688
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	6,613	6,613	0.59	0.01	—	6,632
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.45	0.23	4.13	3.47	0.02	0.31	—	0.31	0.31	—	0.31	—	4,930	4,930	0.44	0.01	—	4,944
Industrial Park	0.16	0.08	1.41	1.18	0.01	0.11	—	0.11	0.11	—	0.11	—	1,683	1,683	0.15	< 0.005	—	1,688
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	6,613	6,613	0.59	0.01	—	6,632
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.08	0.04	0.75	0.63	< 0.005	0.06	—	0.06	0.06	—	0.06	—	816	816	0.07	< 0.005	—	819
Industrial Park	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	279	279	0.02	< 0.005	—	279
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	1.01	0.85	0.01	0.08	—	0.08	0.08	—	0.08	—	1,095	1,095	0.10	< 0.005	—	1,098

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.45	0.23	4.13	3.47	0.02	0.31	—	0.31	0.31	—	0.31	—	4,930	4,930	0.44	0.01	—	4,944
Industrial Park	0.16	0.08	1.41	1.18	0.01	0.11	—	0.11	0.11	—	0.11	—	1,683	1,683	0.15	< 0.005	—	1,688
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	6,613	6,613	0.59	0.01	—	6,632
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.45	0.23	4.13	3.47	0.02	0.31	—	0.31	0.31	—	0.31	—	4,930	4,930	0.44	0.01	—	4,944
Industrial Park	0.16	0.08	1.41	1.18	0.01	0.11	—	0.11	0.11	—	0.11	—	1,683	1,683	0.15	< 0.005	—	1,688

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.61	0.30	5.54	4.66	0.03	0.42	—	0.42	0.42	—	0.42	—	6,613	6,613	0.59	0.01	—	6,632
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.08	0.04	0.75	0.63	< 0.005	0.06	—	0.06	0.06	—	0.06	—	816	816	0.07	< 0.005	—	819
Industrial Park	0.03	0.01	0.26	0.22	< 0.005	0.02	—	0.02	0.02	—	0.02	—	279	279	0.02	< 0.005	—	279
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Total	0.11	0.06	1.01	0.85	0.01	0.08	—	0.08	0.08	—	0.08	—	1,095	1,095	0.10	< 0.005	—	1,098

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Architectural	—	2.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.74	7.14	0.37	43.5	< 0.005	0.06	—	0.06	0.08	—	0.08	—	179	179	0.01	< 0.005	—	180
Total	7.74	31.3	0.37	43.5	< 0.005	0.06	—	0.06	0.08	—	0.08	—	179	179	0.01	< 0.005	—	180
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	2.66	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	24.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.97	0.89	0.05	5.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.3	20.3	< 0.005	< 0.005	—	20.4
Total	0.97	5.31	0.05	5.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.3	20.3	< 0.005	< 0.005	—	20.4

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	7.74	7.14	0.37	43.5	< 0.005	0.06	—	0.06	0.08	—	0.08	—	179	179	0.01	< 0.005	—	180
Total	7.74	28.9	0.37	43.5	< 0.005	0.06	—	0.06	0.08	—	0.08	—	179	179	0.01	< 0.005	—	180
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	21.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	21.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Consumer Products	—	3.93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.05	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	0.97	0.89	0.05	5.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.3	20.3	< 0.005	< 0.005	—	20.4
Total	0.97	4.87	0.05	5.44	< 0.005	0.01	—	0.01	0.01	—	0.01	—	20.3	20.3	< 0.005	< 0.005	—	20.4

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	358	1,883	2,242	36.9	0.89	—	3,428
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	84.6	449	534	8.71	0.21	—	814
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	358	1,883	2,242	36.9	0.89	—	3,428
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	84.6	449	534	8.71	0.21	—	814
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	59.4	312	371	6.11	0.15	—	568
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	14.0	74.3	88.3	1.44	0.03	—	135
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	73.4	386	459	7.55	0.18	—	702

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	358	1,883	2,242	36.9	0.89	—	3,428
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	84.6	449	534	8.71	0.21	—	814

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	358	1,883	2,242	36.9	0.89	—	3,428
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	84.6	449	534	8.71	0.21	—	814
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	443	2,332	2,775	45.6	1.10	—	4,242
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	59.4	312	371	6.11	0.15	—	568
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	14.0	74.3	88.3	1.44	0.03	—	135
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Total	—	—	—	—	—	—	—	—	—	—	—	73.4	386	459	7.55	0.18	—	702

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	410	0.00	410	41.0	0.00	—	1,434
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	447
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	410	0.00	410	41.0	0.00	—	1,434
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	447

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	67.9	0.00	67.9	6.78	0.00	—	237
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.11	0.00	—	73.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	89.0	0.00	89.0	8.89	0.00	—	311

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	410	0.00	410	41.0	0.00	—	1,434

Industrial Park	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	447
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	410	0.00	410	41.0	0.00	—	1,434
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	128	0.00	128	12.8	0.00	—	447
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	537	0.00	537	53.7	0.00	—	1,880
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	67.9	0.00	67.9	6.78	0.00	—	237
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	21.1	0.00	21.1	2.11	0.00	—	73.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Other Asphalt Surfaces	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Total	—	—	—	—	—	—	—	—	—	—	—	89.0	0.00	89.0	8.89	0.00	—	311

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,566	21,566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.8	49.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,566	21,566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.8	49.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,570	3,570
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.25	8.25
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,579	3,579

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,566	21,566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.8	49.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,566	21,566
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	49.8	49.8
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	21,616	21,616
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,570	3,570
Industrial Park	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	8.25	8.25
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	3,579	3,579

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	7/1/2023	9/1/2023	5.00	45.0	—
Site Preparation	Site Preparation	9/2/2023	9/15/2023	5.00	10.0	—
Grading	Grading	9/16/2023	2/1/2024	5.00	99.0	—
Building Construction	Building Construction	2/1/2024	6/30/2025	5.00	368	—
Paving	Paving	2/1/2024	4/30/2024	5.00	64.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

Grading	Tractors/Loaders/Backh	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backh oes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20

Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
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Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	29.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	6.31	20.0	HHDT
Grading	Onsite truck	—	—	HHDT

Building Construction	—	—	—	—
Building Construction	Worker	420	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	164	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	29.0	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	6.31	20.0	HHDT

Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	420	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	164	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (Ton of Debris)	Acres Paved (acres)

Demolition	0.00	0.00	0.00	5,210	—
Site Preparation	—	—	15.0	0.00	—
Grading	—	5,000	297	0.00	—
Paving	0.00	0.00	0.00	0.00	36.0

5.6.2. Construction Earthmoving Control Strategies

Control Strategies Applied	Frequency (per day)	PM10 Reduction	PM2.5 Reduction
Water Exposed Area	3	74%	74%

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Unrefrigerated Warehouse-No Rail	0.00	0%
Industrial Park	0.00	0%
Parking Lot	24.0	100%
Other Asphalt Surfaces	12.0	100%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2023	0.00	532	0.03	< 0.005
2024	0.00	532	0.03	< 0.005
2025	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	898	898	898	327,766	12,186	12,186	12,186	4,447,726
Industrial Park	535	535	535	195,202	7,257	7,257	7,257	2,648,853
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	48.0	48.0	48.0	17,520	651	651	651	237,743

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	898	898	898	327,766	12,186	12,186	12,186	4,447,726
Industrial Park	535	535	535	195,202	7,257	7,257	7,257	2,648,853
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	48.0	48.0	48.0	17,520	651	651	651	237,743

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

5.10.1.2. Mitigated

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
0	0.00	1,500,893	500,298	94,090

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,737,533	532	0.0330	0.0040	15,383,765
Industrial Park	3,339,907	532	0.0330	0.0040	5,251,416
Parking Lot	915,805	532	0.0330	0.0040	0.00
Other Asphalt Surfaces	915,805	532	0.0330	0.0040	0.00

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Unrefrigerated Warehouse-No Rail	3,737,533	532	0.0330	0.0040	15,383,765
Industrial Park	3,339,907	532	0.0330	0.0040	5,251,416

Parking Lot	915,805	532	0.0330	0.0040	0.00
Other Asphalt Surfaces	915,805	532	0.0330	0.0040	0.00

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	187,081,250	3,474,600
Industrial Park	44,168,750	1,388,970
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Unrefrigerated Warehouse-No Rail	187,081,250	3,474,600
Industrial Park	44,168,750	1,388,970
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	760	0.00
Industrial Park	237	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Unrefrigerated Warehouse-No Rail	760	0.00
Industrial Park	237	0.00
Parking Lot	0.00	0.00
Other Asphalt Surfaces	0.00	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0
Industrial Park	Other commercial A/C and heat pumps	R-410A	2,088	0.30	4.00	4.00	18.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat
Extreme Precipitation	4.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A

Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.1
AQ-PM	95.9
AQ-DPM	61.4
Drinking Water	99.7
Lead Risk Housing	10.0
Pesticides	76.9
Toxic Releases	70.5
Traffic	12.6
Effect Indicators	—

CleanUp Sites	19.0
Groundwater	97.8
Haz Waste Facilities/Generators	63.9
Impaired Water Bodies	43.8
Solid Waste	95.7
Sensitive Population	—
Asthma	42.6
Cardio-vascular	67.7
Low Birth Weights	45.9
Socioeconomic Factor Indicators	—
Education	52.1
Housing	11.2
Linguistic	75.8
Poverty	34.7
Unemployment	49.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	80.61080457
Employed	84.28076479
Median HI	74.02797382
Education	—
Bachelor's or higher	64.24996792
High school enrollment	100
Preschool enrollment	21.59630438

Transportation	—
Auto Access	80.12318748
Active commuting	28.08931092
Social	—
2-parent households	68.63852175
Voting	58.7963557
Neighborhood	—
Alcohol availability	77.23598101
Park access	50.75067368
Retail density	13.56345438
Supermarket access	57.55164892
Tree canopy	14.56435262
Housing	—
Homeownership	67.43231105
Housing habitability	76.73553189
Low-inc homeowner severe housing cost burden	83.54933915
Low-inc renter severe housing cost burden	44.41165148
Uncrowded housing	60.77248813
Health Outcomes	—
Insured adults	78.89131272
Arthritis	80.8
Asthma ER Admissions	59.0
High Blood Pressure	87.7
Cancer (excluding skin)	71.8
Asthma	55.1
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	74.0

Diagnosed Diabetes	73.9
Life Expectancy at Birth	56.4
Cognitively Disabled	91.4
Physically Disabled	90.7
Heart Attack ER Admissions	29.6
Mental Health Not Good	53.9
Chronic Kidney Disease	85.5
Obesity	57.9
Pedestrian Injuries	43.5
Physical Health Not Good	62.9
Stroke	84.7
Health Risk Behaviors	—
Binge Drinking	29.5
Current Smoker	54.4
No Leisure Time for Physical Activity	61.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	11.1
Elderly	89.5
English Speaking	63.5
Foreign-born	35.4
Outdoor Workers	64.2
Climate Change Adaptive Capacity	—
Impervious Surface Cover	72.5
Traffic Density	14.9
Traffic Access	23.0

Other Indices	—
Hardship	39.2
Other Decision Support	—
2016 Voting	78.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	73.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification
Land Use	Per Site Plan, Trailer parking is assumed to be Other Asphalt Surfaces and Other Paved Surfaces and Industrial Parking lots are assumed to be Parking Lot
Construction: Construction Phases	Per Construction Schedule

Operations: Vehicle Data	Per Traffic Study and Trip Generation
Operations: Fleet Mix	Per fleet mix based on trip generation
Operations: Energy Use	Account for lighting in drive aisles and Trailer Parking
Construction: Off-Road Equipment	Tier 4 Construction Equipment Mitigation

Euclid MUSP (Trucks) Custom Report

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1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Euclid MUSP (Trucks)
Construction Start Date	7/1/2023
Operational Year	2025
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	34.00121320488822, -117.64812424385309
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5259
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.8

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	809	1000sqft	23.5	809,217	216,363	—	—	—
Industrial Park	191	1000sqft	6.38	191,378	86,491	—	—	—
Parking Lot	24.0	Acre	24.0	0.00	0.00	—	—	—
Other Asphalt Surfaces	12.0	Acre	12.0	0.00	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.81	1.09	49.0	25.6	0.42	0.71	7.38	8.09	0.68	1.75	2.43	—	46,411	46,411	3.60	7.04	135	48,733
Industrial Park	1.07	0.24	10.9	5.69	0.09	0.16	1.64	1.80	0.15	0.39	0.54	—	10,313	10,313	0.80	1.56	30.0	10,829
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.74	0.55	10.2	4.58	0.12	0.16	2.41	2.57	0.15	0.55	0.70	—	12,405	12,405	0.14	1.59	60.6	12,943

Total	6.61	1.87	70.1	35.9	0.63	1.02	11.4	12.5	0.98	2.69	3.67	—	69,129	69,129	4.54	10.2	226	72,505
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	4.78	1.06	51.1	25.7	0.42	0.71	7.38	8.09	0.68	1.75	2.43	—	46,419	46,419	3.60	7.04	3.51	48,611
Industrial Park	1.06	0.23	11.3	5.70	0.09	0.16	1.64	1.80	0.15	0.39	0.54	—	10,315	10,315	0.80	1.56	0.78	10,802
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.73	0.54	10.7	4.57	0.12	0.16	2.41	2.57	0.15	0.55	0.70	—	12,406	12,406	0.14	1.59	1.57	12,885
Total	6.57	1.83	73.2	36.0	0.63	1.03	11.4	12.5	0.98	2.69	3.67	—	69,139	69,139	4.54	10.2	5.86	72,298
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.87	0.20	9.43	4.68	0.08	0.13	1.35	1.48	0.12	0.32	0.44	—	7,684	7,684	0.60	1.17	9.66	8,056
Industrial Park	0.19	0.04	2.09	1.04	0.02	0.03	0.30	0.33	0.03	0.07	0.10	—	1,708	1,708	0.13	0.26	2.14	1,790
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	0.13	0.10	1.98	0.83	0.02	0.03	0.44	0.47	0.03	0.10	0.13	—	2,054	2,054	0.02	0.26	4.33	2,137
Total	1.20	0.34	13.5	6.55	0.11	0.19	2.09	2.27	0.18	0.49	0.67	—	11,446	11,446	0.75	1.69	16.1	11,984

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	485	485	485	177,171	16,115	16,115	16,115	5,882,077
Industrial Park	109	109	109	39,738	3,614	3,614	3,614	1,319,287
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Other Asphalt Surfaces	183	183	183	66,883	6,084	6,084	6,084	2,220,502

8. User Changes to Default Data

Screen	Justification
Land Use	Per Site Plan, Trailer parking assumed to be Other Asphalt Surfaces and Paved Surfaces and Industrial Trailer parking is assumed to be Parking Lot
Construction: Construction Phases	Per Construction Schedule
Operations: Vehicle Data	Per Trip Generation, Truck Trip length based on CARB Drayage Truck Study
Operations: Fleet Mix	Per Trip Generation and Fleet Mix
Operations: Energy Use	Account for lighting in Trailer Parking and driving aisles

Euclid Residential Detailed Report

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8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Euclid Residential
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	34.00123459835497, -117.64814757450229
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5259
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description
Apartments Mid Rise	466	Dwelling Unit	13.3	348,480	58,022	—	1,542	—
Parking Lot	11.0	Acre	11.2	0.00	0.00	—	—	—
Unrefrigerated Warehouse-No Rail	163	1000sqft	9.10	163,600	39,640	—	—	—

Strip Mall	10.0	1000sqft	0.23	10,225	0.00	—	—	—
Fast Food Restaurant w/o Drive Thru	10.0	1000sqft	0.23	10,000	0.00	—	—	—
Fast Food Restaurant with Drive Thru	10.0	1000sqft	0.23	10,000	0.00	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

Sector	#	Measure Title
Construction	C-13	Use Low-VOC Paints for Construction

2. Emissions Summary

2.1. Construction Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.59	2.21	6.66	48.2	0.06	0.12	19.9	20.0	0.12	10.2	10.3	—	10,775	10,775	0.54	0.61	28.8	10,998
Mit.	2.59	2.21	6.66	48.2	0.06	0.12	19.9	20.0	0.12	10.2	10.3	—	10,775	10,775	0.54	0.61	28.8	10,998
% Reduced	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	2.47	75.3	6.97	40.2	0.04	0.08	6.13	6.21	0.08	1.47	1.55	—	10,289	10,289	0.54	0.61	0.75	10,484
Mit.	2.47	11.9	6.97	40.2	0.04	0.08	6.13	6.21	0.08	1.47	1.55	—	10,289	10,289	0.54	0.61	0.75	10,484

% Reduced	—	84%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	1.45	12.6	4.35	25.0	0.03	0.06	5.15	5.21	0.06	1.97	2.03	—	6,213	6,213	0.23	0.35	6.69	6,330
Mit.	1.45	3.01	4.35	25.0	0.03	0.06	5.15	5.21	0.06	1.97	2.03	—	6,213	6,213	0.23	0.35	6.69	6,330
% Reduced	—	76%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	0.26	2.29	0.79	4.56	0.01	0.01	0.94	0.95	0.01	0.36	0.37	—	1,029	1,029	0.04	0.06	1.11	1,048
Mit.	0.26	0.55	0.79	4.56	0.01	0.01	0.94	0.95	0.01	0.36	0.37	—	1,029	1,029	0.04	0.06	1.11	1,048
% Reduced	—	76%	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2.2. Construction Emissions by Year, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.59	2.21	6.66	48.2	0.06	0.12	19.9	20.0	0.12	10.2	10.3	—	10,775	10,775	0.54	0.61	28.8	10,998
2026	2.47	2.08	6.35	45.7	0.04	0.08	6.13	6.21	0.08	1.47	1.55	—	10,612	10,612	0.52	0.60	26.2	10,830
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.47	2.09	6.97	40.2	0.04	0.08	6.13	6.21	0.08	1.47	1.55	—	10,289	10,289	0.54	0.61	0.75	10,484
2026	2.36	75.3	6.64	38.4	0.04	0.08	6.13	6.21	0.08	1.47	1.55	—	10,138	10,138	0.35	0.61	0.68	10,328
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

2025	0.88	0.77	3.59	23.0	0.03	0.06	5.15	5.21	0.06	1.97	2.03	—	4,976	4,976	0.23	0.18	3.32	5,038
2026	1.45	12.6	4.35	25.0	0.03	0.05	3.64	3.69	0.05	0.87	0.92	—	6,213	6,213	0.21	0.35	6.69	6,330
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.16	0.14	0.65	4.21	0.01	0.01	0.94	0.95	0.01	0.36	0.37	—	824	824	0.04	0.03	0.55	834
2026	0.26	2.29	0.79	4.56	< 0.005	0.01	0.66	0.67	0.01	0.16	0.17	—	1,029	1,029	0.04	0.06	1.11	1,048

2.3. Construction Emissions by Year, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Year	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily - Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.59	2.21	6.66	48.2	0.06	0.12	19.9	20.0	0.12	10.2	10.3	—	10,775	10,775	0.54	0.61	28.8	10,998
2026	2.47	2.08	6.35	45.7	0.04	0.08	6.13	6.21	0.08	1.47	1.55	—	10,612	10,612	0.52	0.60	26.2	10,830
Daily - Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	2.47	2.09	6.97	40.2	0.04	0.08	6.13	6.21	0.08	1.47	1.55	—	10,289	10,289	0.54	0.61	0.75	10,484
2026	2.36	11.9	6.64	38.4	0.04	0.08	6.13	6.21	0.08	1.47	1.55	—	10,138	10,138	0.35	0.61	0.68	10,328
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.88	0.77	3.59	23.0	0.03	0.06	5.15	5.21	0.06	1.97	2.03	—	4,976	4,976	0.23	0.18	3.32	5,038
2026	1.45	3.01	4.35	25.0	0.03	0.05	3.64	3.69	0.05	0.87	0.92	—	6,213	6,213	0.21	0.35	6.69	6,330
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2025	0.16	0.14	0.65	4.21	0.01	0.01	0.94	0.95	0.01	0.36	0.37	—	824	824	0.04	0.03	0.55	834
2026	0.26	0.55	0.79	4.56	< 0.005	0.01	0.66	0.67	0.01	0.16	0.17	—	1,029	1,029	0.04	0.06	1.11	1,048

2.4. Operations Emissions Compared Against Thresholds

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Un/Mit.	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	29.9	39.8	24.5	245	0.55	0.59	18.6	19.2	0.57	3.32	3.89	521	64,698	65,219	55.5	2.80	4,563	72,003
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	24.4	34.6	25.7	176	0.52	0.57	18.6	19.2	0.55	3.32	3.86	521	61,184	61,704	55.5	2.88	4,398	68,348
Average Daily (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	26.9	36.9	26.3	206	0.52	0.58	18.6	19.2	0.56	3.32	3.88	521	61,763	62,283	55.5	2.90	4,467	69,002
Annual (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unmit.	4.92	6.74	4.81	37.6	0.10	0.11	3.40	3.50	0.10	0.61	0.71	86.2	10,226	10,312	9.20	0.48	740	11,424

2.5. Operations Emissions by Sector, Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.6	23.2	21.4	208	0.53	0.35	18.6	19.0	0.33	3.32	3.65	—	54,725	54,725	2.40	2.45	170	55,684
Area	3.95	16.5	0.32	34.9	< 0.005	0.02	—	0.02	0.03	—	0.03	0.00	105	105	< 0.005	< 0.005	—	106
Energy	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	9,220	9,220	0.66	0.05	—	9,251
Water	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176
Waste	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394
Total	29.9	39.8	24.5	245	0.55	0.59	18.6	19.2	0.57	3.32	3.89	521	64,698	65,219	55.5	2.80	4,563	72,003

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.1	21.6	23.0	174	0.50	0.35	18.6	19.0	0.33	3.32	3.65	—	51,316	51,316	2.49	2.52	4.40	52,135
Area	0.00	12.8	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	9,220	9,220	0.66	0.05	—	9,251
Water	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176
Waste	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394
Total	24.4	34.6	25.7	176	0.52	0.57	18.6	19.2	0.55	3.32	3.86	521	61,184	61,704	55.5	2.88	4,398	68,348
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	23.9	21.5	23.4	180	0.50	0.35	18.6	19.0	0.33	3.32	3.64	—	51,823	51,823	2.49	2.54	73.2	52,716
Area	2.71	15.3	0.22	23.9	< 0.005	0.01	—	0.01	0.02	—	0.02	0.00	72.2	72.2	< 0.005	< 0.005	—	72.4
Energy	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	9,220	9,220	0.66	0.05	—	9,251
Water	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176
Waste	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394
Total	26.9	36.9	26.3	206	0.52	0.58	18.6	19.2	0.56	3.32	3.88	521	61,763	62,283	55.5	2.90	4,467	69,002
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.37	3.92	4.26	32.9	0.09	0.06	3.40	3.46	0.06	0.61	0.67	—	8,580	8,580	0.41	0.42	12.1	8,728
Area	0.49	2.79	0.04	4.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	11.9	11.9	< 0.005	< 0.005	—	12.0
Energy	0.06	0.03	0.50	0.33	< 0.005	0.04	—	0.04	0.04	—	0.04	—	1,526	1,526	0.11	0.01	—	1,532
Water	—	—	—	—	—	—	—	—	—	—	—	20.3	107	128	2.09	0.05	—	195
Waste	—	—	—	—	—	—	—	—	—	—	—	65.9	0.00	65.9	6.59	0.00	—	231
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	727	727
Total	4.92	6.74	4.81	37.6	0.10	0.11	3.40	3.50	0.10	0.61	0.71	86.2	10,226	10,312	9.20	0.48	740	11,424

2.6. Operations Emissions by Sector, Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Sector	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	25.6	23.2	21.4	208	0.53	0.35	18.6	19.0	0.33	3.32	3.65	—	54,725	54,725	2.40	2.45	170	55,684
Area	3.95	16.5	0.32	34.9	< 0.005	0.02	—	0.02	0.03	—	0.03	0.00	105	105	< 0.005	< 0.005	—	106
Energy	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	9,220	9,220	0.66	0.05	—	9,251
Water	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176
Waste	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394
Total	29.9	39.8	24.5	245	0.55	0.59	18.6	19.2	0.57	3.32	3.89	521	64,698	65,219	55.5	2.80	4,563	72,003
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	24.1	21.6	23.0	174	0.50	0.35	18.6	19.0	0.33	3.32	3.65	—	51,316	51,316	2.49	2.52	4.40	52,135
Area	0.00	12.8	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Energy	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	9,220	9,220	0.66	0.05	—	9,251
Water	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176
Waste	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394
Total	24.4	34.6	25.7	176	0.52	0.57	18.6	19.2	0.55	3.32	3.86	521	61,184	61,704	55.5	2.88	4,398	68,348
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	23.9	21.5	23.4	180	0.50	0.35	18.6	19.0	0.33	3.32	3.64	—	51,823	51,823	2.49	2.54	73.2	52,716
Area	2.71	15.3	0.22	23.9	< 0.005	0.01	—	0.01	0.02	—	0.02	0.00	72.2	72.2	< 0.005	< 0.005	—	72.4
Energy	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	9,220	9,220	0.66	0.05	—	9,251
Water	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176

Waste	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394
Total	26.9	36.9	26.3	206	0.52	0.58	18.6	19.2	0.56	3.32	3.88	521	61,763	62,283	55.5	2.90	4,467	69,002
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Mobile	4.37	3.92	4.26	32.9	0.09	0.06	3.40	3.46	0.06	0.61	0.67	—	8,580	8,580	0.41	0.42	12.1	8,728
Area	0.49	2.79	0.04	4.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	11.9	11.9	< 0.005	< 0.005	—	12.0
Energy	0.06	0.03	0.50	0.33	< 0.005	0.04	—	0.04	0.04	—	0.04	—	1,526	1,526	0.11	0.01	—	1,532
Water	—	—	—	—	—	—	—	—	—	—	—	20.3	107	128	2.09	0.05	—	195
Waste	—	—	—	—	—	—	—	—	—	—	—	65.9	0.00	65.9	6.59	0.00	—	231
Refrig.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	727	727
Total	4.92	6.74	4.81	37.6	0.10	0.11	3.40	3.50	0.10	0.61	0.71	86.2	10,226	10,312	9.20	0.48	740	11,424

3. Construction Emissions Details

3.1. Demolition (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	4.51	18.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.62	2.49	< 0.005	0.01	—	0.01	0.01	—	0.01	—	469	469	0.02	< 0.005	—	471
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.7	77.7	< 0.005	< 0.005	—	77.9
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	1.17	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	211	211	0.01	0.01	0.78	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.9	26.9	< 0.005	< 0.005	0.05	27.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.46	4.46	< 0.005	< 0.005	0.01	4.52

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.2. Demolition (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.36	0.36	4.51	18.2	0.03	0.06	—	0.06	0.06	—	0.06	—	3,425	3,425	0.14	0.03	—	3,437
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.05	0.05	0.62	2.49	< 0.005	0.01	—	0.01	0.01	—	0.01	—	469	469	0.02	< 0.005	—	471
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.11	0.45	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	77.7	77.7	< 0.005	< 0.005	—	77.9
Demolition	—	—	—	—	—	—	0.00	0.00	—	0.00	0.00	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.08	0.07	0.07	1.17	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	211	211	0.01	0.01	0.78	215
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.9	26.9	< 0.005	< 0.005	0.05	27.3
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	4.46	4.46	< 0.005	< 0.005	0.01	4.52
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.3. Site Preparation (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.21	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	435	435	0.02	< 0.005	—	437
Dust From Material Movement	—	—	—	—	—	—	1.62	1.62	—	0.83	0.83	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	72.1	72.1	< 0.005	< 0.005	—	72.3
Dust From Material Movement	—	—	—	—	—	—	0.29	0.29	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.36	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	247	247	0.01	0.01	0.91	250

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.8	18.8	< 0.005	< 0.005	0.03	19.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.12	3.12	< 0.005	< 0.005	0.01	3.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.4. Site Preparation (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.50	0.50	2.59	28.3	0.05	0.10	—	0.10	0.10	—	0.10	—	5,295	5,295	0.21	0.04	—	5,314
Dust From Material Movement	—	—	—	—	—	—	19.7	19.7	—	10.1	10.1	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.04	0.04	0.21	2.33	< 0.005	0.01	—	0.01	0.01	—	0.01	—	435	435	0.02	< 0.005	—	437
Dust From Material Movement	—	—	—	—	—	—	1.62	1.62	—	0.83	0.83	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.04	0.42	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	72.1	72.1	< 0.005	< 0.005	—	72.3
Dust From Material Movement	—	—	—	—	—	—	0.29	0.29	—	0.15	0.15	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.08	1.36	0.00	0.00	0.23	0.23	0.00	0.05	0.05	—	247	247	0.01	0.01	0.91	250
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Worker	0.01	0.01	0.01	0.09	0.00	0.00	0.02	0.02	0.00	< 0.005	< 0.005	—	18.8	18.8	< 0.005	< 0.005	0.03	19.1
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	< 0.005	< 0.005	0.00	< 0.005	< 0.005	—	3.12	3.12	< 0.005	< 0.005	0.01	3.16
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.5. Grading (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.91	7.26	0.01	0.03	—	0.03	0.03	—	0.03	—	1,356	1,356	0.06	0.01	—	1,361

Dust From Material Movement	—	—	—	—	—	—	1.89	1.89	—	0.75	0.75	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	1.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	224	224	0.01	< 0.005	—	225
Dust From Material Movement	—	—	—	—	—	—	0.35	0.35	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.56	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	282	282	0.01	0.01	1.05	286
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	53.8	53.8	< 0.005	< 0.005	0.09	54.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.91	8.91	< 0.005	< 0.005	0.02	9.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.6. Grading (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.64	0.64	4.43	35.3	0.06	0.12	—	0.12	0.12	—	0.12	—	6,599	6,599	0.27	0.05	—	6,622
Dust From Material Movement	—	—	—	—	—	—	9.20	9.20	—	3.65	3.65	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	0.91	7.26	0.01	0.03	—	0.03	0.03	—	0.03	—	1,356	1,356	0.06	0.01	—	1,361
Dust From Material Movement	—	—	—	—	—	—	1.89	1.89	—	0.75	0.75	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.17	1.33	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	224	224	0.01	< 0.005	—	225

Dust From Material Movement	—	—	—	—	—	—	0.35	0.35	—	0.14	0.14	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.10	0.09	0.09	1.56	0.00	0.00	0.26	0.26	0.00	0.06	0.06	—	282	282	0.01	0.01	1.05	286
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.02	0.02	0.02	0.25	0.00	0.00	0.05	0.05	0.00	0.01	0.01	—	53.8	53.8	< 0.005	< 0.005	0.09	54.6
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.05	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	8.91	8.91	< 0.005	< 0.005	0.02	9.04
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.7. Building Construction (2025) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.51	3.61	0.01	0.01	—	0.01	0.01	—	0.01	—	605	605	0.02	< 0.005	—	607
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	100	100	< 0.005	< 0.005	—	101
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.11	1.91	1.83	32.4	0.00	0.00	5.44	5.44	0.00	1.27	1.27	—	5,860	5,860	0.24	0.21	21.7	5,950
Vendor	0.25	0.07	2.80	1.51	0.02	0.04	0.70	0.73	0.04	0.19	0.23	—	2,517	2,517	0.20	0.38	7.08	2,642
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.99	1.79	2.02	24.4	0.00	0.00	5.44	5.44	0.00	1.27	1.27	—	5,373	5,373	0.25	0.21	0.56	5,441
Vendor	0.25	0.07	2.92	1.52	0.02	0.04	0.70	0.73	0.04	0.19	0.23	—	2,518	2,518	0.20	0.38	0.18	2,637
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.44	0.55	6.50	0.00	0.00	1.36	1.36	0.00	0.32	0.32	—	1,376	1,376	0.06	0.05	2.37	1,395
Vendor	0.06	0.02	0.74	0.38	< 0.005	0.01	0.18	0.18	0.01	0.05	0.06	—	636	636	0.05	0.10	0.77	666
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.19	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	228	228	0.01	0.01	0.39	231
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	105	105	0.01	0.02	0.13	110
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.8. Building Construction (2025) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,398	2,398	0.10	0.02	—	2,406
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.06	0.06	0.51	3.61	0.01	0.01	—	0.01	0.01	—	0.01	—	605	605	0.02	< 0.005	—	607
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.01	0.01	0.09	0.66	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	100	100	< 0.005	< 0.005	—	101
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	2.11	1.91	1.83	32.4	0.00	0.00	5.44	5.44	0.00	1.27	1.27	—	5,860	5,860	0.24	0.21	21.7	5,950
Vendor	0.25	0.07	2.80	1.51	0.02	0.04	0.70	0.73	0.04	0.19	0.23	—	2,517	2,517	0.20	0.38	7.08	2,642
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.99	1.79	2.02	24.4	0.00	0.00	5.44	5.44	0.00	1.27	1.27	—	5,373	5,373	0.25	0.21	0.56	5,441
Vendor	0.25	0.07	2.92	1.52	0.02	0.04	0.70	0.73	0.04	0.19	0.23	—	2,518	2,518	0.20	0.38	0.18	2,637
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.50	0.44	0.55	6.50	0.00	0.00	1.36	1.36	0.00	0.32	0.32	—	1,376	1,376	0.06	0.05	2.37	1,395
Vendor	0.06	0.02	0.74	0.38	< 0.005	0.01	0.18	0.18	0.01	0.05	0.06	—	636	636	0.05	0.10	0.77	666

Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.09	0.08	0.10	1.19	0.00	0.00	0.25	0.25	0.00	0.06	0.06	—	228	228	0.01	0.01	0.39	231
Vendor	0.01	< 0.005	0.14	0.07	< 0.005	< 0.005	0.03	0.03	< 0.005	0.01	0.01	—	105	105	0.01	0.02	0.13	110
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.9. Building Construction (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.15	8.09	0.01	0.02	—	0.02	0.02	—	0.02	—	1,356	1,356	0.05	0.01	—	1,360
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.02	0.02	0.21	1.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	224	224	0.01	< 0.005	—	225
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.99	1.80	1.64	30.0	0.00	0.00	5.44	5.44	0.00	1.27	1.27	—	5,741	5,741	0.24	0.20	19.6	5,825
Vendor	0.25	0.05	2.68	1.45	0.02	0.04	0.70	0.73	0.04	0.19	0.23	—	2,475	2,475	0.18	0.38	6.53	2,599
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.88	1.68	1.83	22.6	0.00	0.00	5.44	5.44	0.00	1.27	1.27	—	5,265	5,265	0.08	0.21	0.51	5,329
Vendor	0.24	0.05	2.78	1.47	0.02	0.04	0.70	0.73	0.04	0.19	0.23	—	2,476	2,476	0.18	0.38	0.17	2,594
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.07	0.95	1.13	13.5	0.00	0.00	3.06	3.06	0.00	0.72	0.72	—	3,019	3,019	0.05	0.12	4.80	3,060
Vendor	0.14	0.03	1.58	0.83	0.01	0.02	0.39	0.41	0.02	0.11	0.13	—	1,400	1,400	0.10	0.22	1.59	1,468
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.46	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	500	500	0.01	0.02	0.79	507
Vendor	0.03	0.01	0.29	0.15	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	232	232	0.02	0.04	0.26	243
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.10. Building Construction (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.23	0.23	2.03	14.3	0.02	0.04	—	0.04	0.04	—	0.04	—	2,397	2,397	0.10	0.02	—	2,405
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.13	0.13	1.15	8.09	0.01	0.02	—	0.02	0.02	—	0.02	—	1,356	1,356	0.05	0.01	—	1,360
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.21	1.48	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	224	224	0.01	< 0.005	—	225
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.99	1.80	1.64	30.0	0.00	0.00	5.44	5.44	0.00	1.27	1.27	—	5,741	5,741	0.24	0.20	19.6	5,825
Vendor	0.25	0.05	2.68	1.45	0.02	0.04	0.70	0.73	0.04	0.19	0.23	—	2,475	2,475	0.18	0.38	6.53	2,599
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.88	1.68	1.83	22.6	0.00	0.00	5.44	5.44	0.00	1.27	1.27	—	5,265	5,265	0.08	0.21	0.51	5,329
Vendor	0.24	0.05	2.78	1.47	0.02	0.04	0.70	0.73	0.04	0.19	0.23	—	2,476	2,476	0.18	0.38	0.17	2,594
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	1.07	0.95	1.13	13.5	0.00	0.00	3.06	3.06	0.00	0.72	0.72	—	3,019	3,019	0.05	0.12	4.80	3,060
Vendor	0.14	0.03	1.58	0.83	0.01	0.02	0.39	0.41	0.02	0.11	0.13	—	1,400	1,400	0.10	0.22	1.59	1,468
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.19	0.17	0.21	2.46	0.00	0.00	0.56	0.56	0.00	0.13	0.13	—	500	500	0.01	0.02	0.79	507
Vendor	0.03	0.01	0.29	0.15	< 0.005	< 0.005	0.07	0.08	< 0.005	0.02	0.02	—	232	232	0.02	0.04	0.26	243
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.11. Paving (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.29	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	228	228	0.01	< 0.005	—	228
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.7	37.7	< 0.005	< 0.005	—	37.8
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.0	29.0	< 0.005	< 0.005	0.05	29.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.80	4.80	< 0.005	< 0.005	0.01	4.87

Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.12. Paving (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.16	0.16	1.93	10.6	0.01	0.03	—	0.03	0.03	—	0.03	—	1,511	1,511	0.06	0.01	—	1,516
Paving	—	0.53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.29	1.60	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	228	228	0.01	< 0.005	—	228
Paving	—	0.08	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.05	0.29	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	37.7	37.7	< 0.005	< 0.005	—	37.8
Paving	—	0.01	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.07	0.06	0.07	0.82	0.00	0.00	0.20	0.20	0.00	0.05	0.05	—	190	190	< 0.005	0.01	0.02	192
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	29.0	29.0	< 0.005	< 0.005	0.05	29.4
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	< 0.005	< 0.005	< 0.005	0.02	0.00	0.00	0.01	0.01	0.00	< 0.005	< 0.005	—	4.80	4.80	< 0.005	< 0.005	0.01	4.87
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.13. Architectural Coating (2026) - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	74.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2
Architectural Coatings	—	11.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	—	3.34
Architectural Coatings	—	2.06	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.34	0.37	4.52	0.00	0.00	1.09	1.09	0.00	0.25	0.25	—	1,053	1,053	0.02	0.04	0.10	1,066
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.72	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	161	161	< 0.005	0.01	0.26	163
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.6	26.6	< 0.005	< 0.005	0.04	27.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

3.14. Architectural Coating (2026) - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Location	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Onsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.15	0.12	0.86	1.13	< 0.005	0.02	—	0.02	0.02	—	0.02	—	134	134	0.01	< 0.005	—	134
Architectural Coatings	—	11.4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	0.02	0.02	0.13	0.17	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	20.1	20.1	< 0.005	< 0.005	—	20.2

Architect Coatings	—	1.72	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Off-Road Equipment	< 0.005	< 0.005	0.02	0.03	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.33	3.33	< 0.005	< 0.005	—	3.34
Architectural Coatings	—	0.31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Onsite truck	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Offsite	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.38	0.34	0.37	4.52	0.00	0.00	1.09	1.09	0.00	0.25	0.25	—	1,053	1,053	0.02	0.04	0.10	1,066
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Average Daily	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.06	0.05	0.06	0.72	0.00	0.00	0.16	0.16	0.00	0.04	0.04	—	161	161	< 0.005	0.01	0.26	163
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Worker	0.01	0.01	0.01	0.13	0.00	0.00	0.03	0.03	0.00	0.01	0.01	—	26.6	26.6	< 0.005	< 0.005	0.04	27.0
Vendor	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Hauling	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	9.61	8.76	7.54	72.6	0.18	0.12	6.36	6.48	0.11	1.13	1.24	—	18,722	18,722	0.86	0.85	57.9	19,056
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.58	0.52	0.50	4.90	0.01	0.01	0.44	0.45	0.01	0.08	0.09	—	1,301	1,301	0.06	0.06	4.04	1,323
Fast Food Restaurant w/o Drive Thru	7.36	6.63	6.37	62.3	0.16	0.11	5.64	5.75	0.10	1.00	1.10	—	16,541	16,541	0.71	0.73	51.4	16,828
Fast Food Restaurant with Drive Thru	8.08	7.27	6.99	68.5	0.18	0.12	6.19	6.31	0.11	1.10	1.21	—	18,161	18,161	0.78	0.80	56.4	18,476
Total	25.6	23.2	21.4	208	0.53	0.35	18.6	19.0	0.33	3.32	3.65	—	54,725	54,725	2.40	2.45	170	55,684

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	9.03	8.16	8.10	61.2	0.17	0.12	6.36	6.48	0.11	1.13	1.24	—	17,560	17,560	0.89	0.88	1.50	17,846
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.54	0.49	0.54	4.08	0.01	0.01	0.44	0.45	0.01	0.08	0.09	—	1,220	1,220	0.06	0.06	0.10	1,239
Fast Food Restaurant w/o Drive Thru	6.92	6.19	6.84	51.9	0.15	0.11	5.64	5.75	0.10	1.00	1.10	—	15,509	15,509	0.73	0.75	1.33	15,753
Fast Food Restaurant with Drive Thru	7.60	6.80	7.51	56.9	0.17	0.12	6.19	6.31	0.11	1.10	1.21	—	17,028	17,028	0.80	0.83	1.46	17,296
Total	24.1	21.6	23.0	174	0.50	0.35	18.6	19.0	0.33	3.32	3.65	—	51,316	51,316	2.49	2.52	4.40	52,135
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	1.64	1.48	1.50	11.6	0.03	0.02	1.16	1.18	0.02	0.21	0.23	—	2,937	2,937	0.15	0.15	4.14	2,989
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00

Strip Mall	0.10	0.09	0.10	0.77	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.02	—	204	204	0.01	0.01	0.29	207
Fast Food Restaurant w/o Drive Thru	1.26	1.12	1.27	9.82	0.03	0.02	1.03	1.05	0.02	0.18	0.20	—	2,594	2,594	0.12	0.13	3.67	2,638
Fast Food Restaurant with Drive Thru	1.38	1.23	1.39	10.8	0.03	0.02	1.13	1.15	0.02	0.20	0.22	—	2,845	2,845	0.13	0.14	4.03	2,893
Total	4.37	3.92	4.26	32.9	0.09	0.06	3.40	3.46	0.06	0.61	0.67	—	8,580	8,580	0.41	0.42	12.1	8,728

4.1.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	9.61	8.76	7.54	72.6	0.18	0.12	6.36	6.48	0.11	1.13	1.24	—	18,722	18,722	0.86	0.85	57.9	19,056
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.58	0.52	0.50	4.90	0.01	0.01	0.44	0.45	0.01	0.08	0.09	—	1,301	1,301	0.06	0.06	4.04	1,323

Fast Food Restaurant w/o Drive Thru	7.36	6.63	6.37	62.3	0.16	0.11	5.64	5.75	0.10	1.00	1.10	—	16,541	16,541	0.71	0.73	51.4	16,828
Fast Food Restaurant with Drive Thru	8.08	7.27	6.99	68.5	0.18	0.12	6.19	6.31	0.11	1.10	1.21	—	18,161	18,161	0.78	0.80	56.4	18,476
Total	25.6	23.2	21.4	208	0.53	0.35	18.6	19.0	0.33	3.32	3.65	—	54,725	54,725	2.40	2.45	170	55,684
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	9.03	8.16	8.10	61.2	0.17	0.12	6.36	6.48	0.11	1.13	1.24	—	17,560	17,560	0.89	0.88	1.50	17,846
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.54	0.49	0.54	4.08	0.01	0.01	0.44	0.45	0.01	0.08	0.09	—	1,220	1,220	0.06	0.06	0.10	1,239
Fast Food Restaurant w/o Drive Thru	6.92	6.19	6.84	51.9	0.15	0.11	5.64	5.75	0.10	1.00	1.10	—	15,509	15,509	0.73	0.75	1.33	15,753
Fast Food Restaurant with Drive Thru	7.60	6.80	7.51	56.9	0.17	0.12	6.19	6.31	0.11	1.10	1.21	—	17,028	17,028	0.80	0.83	1.46	17,296
Total	24.1	21.6	23.0	174	0.50	0.35	18.6	19.0	0.33	3.32	3.65	—	51,316	51,316	2.49	2.52	4.40	52,135
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartment Mid Rise	1.64	1.48	1.50	11.6	0.03	0.02	1.16	1.18	0.02	0.21	0.23	—	2,937	2,937	0.15	0.15	4.14	2,989
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	0.10	0.09	0.10	0.77	< 0.005	< 0.005	0.08	0.08	< 0.005	0.01	0.02	—	204	204	0.01	0.01	0.29	207
Fast Food Restaurant w/o Drive Thru	1.26	1.12	1.27	9.82	0.03	0.02	1.03	1.05	0.02	0.18	0.20	—	2,594	2,594	0.12	0.13	3.67	2,638
Fast Food Restaurant with Drive Thru	1.38	1.23	1.39	10.8	0.03	0.02	1.13	1.15	0.02	0.20	0.22	—	2,845	2,845	0.13	0.14	4.03	2,893
Total	4.37	3.92	4.26	32.9	0.09	0.06	3.40	3.46	0.06	0.61	0.67	—	8,580	8,580	0.41	0.42	12.1	8,728

4.2. Energy

4.2.1. Electricity Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,931	2,931	0.18	0.02	—	2,943

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	623	623	0.04	< 0.005	—	625
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,101	1,101	0.07	0.01	—	1,105
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	145	145	0.01	< 0.005	—	146
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	511	511	0.03	< 0.005	—	513
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	511	511	0.03	< 0.005	—	513
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,823	5,823	0.36	0.04	—	5,845
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,931	2,931	0.18	0.02	—	2,943
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	623	623	0.04	< 0.005	—	625
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,101	1,101	0.07	0.01	—	1,105
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	145	145	0.01	< 0.005	—	146

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	511	511	0.03	< 0.005	—	513
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	511	511	0.03	< 0.005	—	513
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,823	5,823	0.36	0.04	—	5,845
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	485	485	0.03	< 0.005	—	487
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.01	< 0.005	—	104
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	182	182	0.01	< 0.005	—	183
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	84.6	84.6	0.01	< 0.005	—	84.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	84.6	84.6	0.01	< 0.005	—	84.9
Total	—	—	—	—	—	—	—	—	—	—	—	—	964	964	0.06	0.01	—	968

4.2.2. Electricity Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,931	2,931	0.18	0.02	—	2,943
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	623	623	0.04	< 0.005	—	625
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,101	1,101	0.07	0.01	—	1,105
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	145	145	0.01	< 0.005	—	146
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	511	511	0.03	< 0.005	—	513
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	511	511	0.03	< 0.005	—	513
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,823	5,823	0.36	0.04	—	5,845
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	2,931	2,931	0.18	0.02	—	2,943
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	623	623	0.04	< 0.005	—	625

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	1,101	1,101	0.07	0.01	—	1,105
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	145	145	0.01	< 0.005	—	146
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	511	511	0.03	< 0.005	—	513
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	511	511	0.03	< 0.005	—	513
Total	—	—	—	—	—	—	—	—	—	—	—	—	5,823	5,823	0.36	0.04	—	5,845
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	485	485	0.03	< 0.005	—	487
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	—	103	103	0.01	< 0.005	—	104
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	182	182	0.01	< 0.005	—	183
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	24.0	24.0	< 0.005	< 0.005	—	24.1
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	84.6	84.6	0.01	< 0.005	—	84.9
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	84.6	84.6	0.01	< 0.005	—	84.9

Total	—	—	—	—	—	—	—	—	—	—	—	—	964	964	0.06	0.01	—	968

4.2.3. Natural Gas Emissions By Land Use - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.15	0.08	1.30	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	1,648	1,648	0.15	< 0.005	—	1,653
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	997	997	0.09	< 0.005	—	1,000
Strip Mall	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.3	19.3	< 0.005	< 0.005	—	19.4
Fast Food Restaurant w/o Drive Thru	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.03	< 0.005	—	367
Fast Food Restaurant with Drive Thru	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.03	< 0.005	—	367
Total	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	3,397	3,397	0.30	0.01	—	3,406
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	0.15	0.08	1.30	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	1,648	1,648	0.15	< 0.005	—	1,653
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	997	997	0.09	< 0.005	—	1,000
Strip Mall	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.3	19.3	< 0.005	< 0.005	—	19.4
Fast Food Restaurant w/o Drive Thru	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.03	< 0.005	—	367
Fast Food Restaurant with Drive Thru	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.03	< 0.005	—	367
Total	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	3,397	3,397	0.30	0.01	—	3,406
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.03	0.01	0.24	0.10	< 0.005	0.02	—	0.02	0.02	—	0.02	—	273	273	0.02	< 0.005	—	274
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	165	165	0.01	< 0.005	—	165
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.20	3.20	< 0.005	< 0.005	—	3.21

Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.6	60.6	0.01	< 0.005	—	60.8
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.6	60.6	0.01	< 0.005	—	60.8
Total	0.06	0.03	0.50	0.33	< 0.005	0.04	—	0.04	0.04	—	0.04	—	562	562	0.05	< 0.005	—	564

4.2.4. Natural Gas Emissions By Land Use - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.15	0.08	1.30	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	1,648	1,648	0.15	< 0.005	—	1,653
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	997	997	0.09	< 0.005	—	1,000
Strip Mall	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.3	19.3	< 0.005	< 0.005	—	19.4
Fast Food Restaurant w/o Drive Thru	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.03	< 0.005	—	367

Fast Food Restaurant with Drive Thru	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.03	< 0.005	—	367
Total	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	3,397	3,397	0.30	0.01	—	3,406
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.15	0.08	1.30	0.55	0.01	0.10	—	0.10	0.10	—	0.10	—	1,648	1,648	0.15	< 0.005	—	1,653
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.09	0.05	0.84	0.70	0.01	0.06	—	0.06	0.06	—	0.06	—	997	997	0.09	< 0.005	—	1,000
Strip Mall	< 0.005	< 0.005	0.02	0.01	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	19.3	19.3	< 0.005	< 0.005	—	19.4
Fast Food Restaurant w/o Drive Thru	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.03	< 0.005	—	367
Fast Food Restaurant with Drive Thru	0.03	0.02	0.31	0.26	< 0.005	0.02	—	0.02	0.02	—	0.02	—	366	366	0.03	< 0.005	—	367
Total	0.31	0.16	2.76	1.78	0.02	0.22	—	0.22	0.22	—	0.22	—	3,397	3,397	0.30	0.01	—	3,406
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	0.03	0.01	0.24	0.10	< 0.005	0.02	—	0.02	0.02	—	0.02	—	273	273	0.02	< 0.005	—	274

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	—	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	0.02	0.01	0.15	0.13	< 0.005	0.01	—	0.01	0.01	—	0.01	—	165	165	0.01	< 0.005	—	165
Strip Mall	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	3.20	3.20	< 0.005	< 0.005	—	3.21
Fast Food Restaurant w/o Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.6	60.6	0.01	< 0.005	—	60.8
Fast Food Restaurant with Drive Thru	0.01	< 0.005	0.06	0.05	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	60.6	60.6	0.01	< 0.005	—	60.8
Total	0.06	0.03	0.50	0.33	< 0.005	0.04	—	0.04	0.04	—	0.04	—	562	562	0.05	< 0.005	—	564

4.3. Area Emissions by Source

4.3.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	11.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landsca Equipment	3.95	3.70	0.32	34.9	< 0.005	0.02	—	0.02	0.03	—	0.03	—	105	105	< 0.005	< 0.005	—	106
Total	3.95	16.5	0.32	34.9	< 0.005	0.02	—	0.02	0.03	—	0.03	0.00	105	105	< 0.005	< 0.005	—	106
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consum er Products	—	11.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	12.8	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consum er Products	—	2.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architect ural Coatings	—	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landsca pe Equipme nt	0.49	0.46	0.04	4.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.9	11.9	< 0.005	< 0.005	—	12.0
Total	0.49	2.79	0.04	4.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	11.9	11.9	< 0.005	< 0.005	—	12.0

4.3.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Source	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e

Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	11.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Landscape Equipment	3.95	3.70	0.32	34.9	< 0.005	0.02	—	0.02	0.03	—	0.03	—	105	105	< 0.005	< 0.005	—	106
Total	3.95	16.5	0.32	34.9	< 0.005	0.02	—	0.02	0.03	—	0.03	0.00	105	105	< 0.005	< 0.005	—	106
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	11.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	1.13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	0.00	12.8	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hearths	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00	0.00	—	0.00	0.00	0.00	0.00	0.00	0.00	—	0.00
Consumer Products	—	2.12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Architectural Coatings	—	0.21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Landscape	0.49	0.46	0.04	4.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	—	11.9	11.9	< 0.005	< 0.005	—	12.0
Total	0.49	2.79	0.04	4.36	< 0.005	< 0.005	—	< 0.005	< 0.005	—	< 0.005	0.00	11.9	11.9	< 0.005	< 0.005	—	12.0

4.4. Water Emissions by Land Use

4.4.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	37.2	202	239	3.83	0.09	—	362
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.2	379	451	7.43	0.18	—	690
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.42	7.35	8.77	0.15	< 0.005	—	13.5
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.82	30.1	35.9	0.60	0.01	—	55.2
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.82	30.1	35.9	0.60	0.01	—	55.2
Total	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	37.2	202	239	3.83	0.09	—	362
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.2	379	451	7.43	0.18	—	690
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.42	7.35	8.77	0.15	< 0.005	—	13.5
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.82	30.1	35.9	0.60	0.01	—	55.2
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.82	30.1	35.9	0.60	0.01	—	55.2
Total	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	6.16	33.4	39.5	0.63	0.02	—	59.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	12.0	62.7	74.7	1.23	0.03	—	114

Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.23	1.22	1.45	0.02	< 0.005	—	2.23
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.96	4.99	5.95	0.10	< 0.005	—	9.14
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.96	4.99	5.95	0.10	< 0.005	—	9.14
Total	—	—	—	—	—	—	—	—	—	—	—	20.3	107	128	2.09	0.05	—	195

4.4.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	37.2	202	239	3.83	0.09	—	362
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.2	379	451	7.43	0.18	—	690
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.42	7.35	8.77	0.15	< 0.005	—	13.5

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.82	30.1	35.9	0.60	0.01	—	55.2
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.82	30.1	35.9	0.60	0.01	—	55.2
Total	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	37.2	202	239	3.83	0.09	—	362
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	72.2	379	451	7.43	0.18	—	690
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	1.42	7.35	8.77	0.15	< 0.005	—	13.5
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.82	30.1	35.9	0.60	0.01	—	55.2
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	5.82	30.1	35.9	0.60	0.01	—	55.2
Total	—	—	—	—	—	—	—	—	—	—	—	123	648	771	12.6	0.30	—	1,176
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartment Mid Rise	—	—	—	—	—	—	—	—	—	—	—	6.16	33.4	39.5	0.63	0.02	—	59.9
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	12.0	62.7	74.7	1.23	0.03	—	114
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.23	1.22	1.45	0.02	< 0.005	—	2.23
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.96	4.99	5.95	0.10	< 0.005	—	9.14
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	0.96	4.99	5.95	0.10	< 0.005	—	9.14
Total	—	—	—	—	—	—	—	—	—	—	—	20.3	107	128	2.09	0.05	—	195

4.5. Waste Emissions by Land Use

4.5.2. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	186	0.00	186	18.6	0.00	—	650

Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.6	0.00	82.6	8.25	0.00	—	289
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5.66	0.00	5.66	0.57	0.00	—	19.8
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.1	0.00	62.1	6.20	0.00	—	217
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.1	0.00	62.1	6.20	0.00	—	217
Total	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	186	0.00	186	18.6	0.00	—	650
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.6	0.00	82.6	8.25	0.00	—	289
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5.66	0.00	5.66	0.57	0.00	—	19.8

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.1	0.00	62.1	6.20	0.00	—	217
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.1	0.00	62.1	6.20	0.00	—	217
Total	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	30.7	0.00	30.7	3.07	0.00	—	108
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	13.7	0.00	13.7	1.37	0.00	—	47.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.94	0.00	0.94	0.09	0.00	—	3.28
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	10.3	0.00	10.3	1.03	0.00	—	36.0
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	10.3	0.00	10.3	1.03	0.00	—	36.0
Total	—	—	—	—	—	—	—	—	—	—	—	65.9	0.00	65.9	6.59	0.00	—	231

4.5.1. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	186	0.00	186	18.6	0.00	—	650
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.6	0.00	82.6	8.25	0.00	—	289
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5.66	0.00	5.66	0.57	0.00	—	19.8
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.1	0.00	62.1	6.20	0.00	—	217
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.1	0.00	62.1	6.20	0.00	—	217
Total	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	186	0.00	186	18.6	0.00	—	650
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00

Unrefrige Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	82.6	0.00	82.6	8.25	0.00	—	289
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	5.66	0.00	5.66	0.57	0.00	—	19.8
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.1	0.00	62.1	6.20	0.00	—	217
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	62.1	0.00	62.1	6.20	0.00	—	217
Total	—	—	—	—	—	—	—	—	—	—	—	398	0.00	398	39.8	0.00	—	1,393
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	30.7	0.00	30.7	3.07	0.00	—	108
Parking Lot	—	—	—	—	—	—	—	—	—	—	—	0.00	0.00	0.00	0.00	0.00	—	0.00
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	13.7	0.00	13.7	1.37	0.00	—	47.8
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	0.94	0.00	0.94	0.09	0.00	—	3.28
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	10.3	0.00	10.3	1.03	0.00	—	36.0
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	10.3	0.00	10.3	1.03	0.00	—	36.0

Total	—	—	—	—	—	—	—	—	—	—	—	65.9	0.00	65.9	6.59	0.00	—	231

4.6. Refrigerant Emissions by Land Use

4.6.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50	2.50
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,360	4,360
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	15.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	15.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Apartments	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50	2.50
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,360	4,360
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	15.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	15.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.41	0.41
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	722	722
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.59	2.59

Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.59	2.59
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	727	727

4.6.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50	2.50
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,360	4,360
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	15.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	15.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.50	2.50
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,360	4,360
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.06	0.06
Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	15.6
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	15.6	15.6
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4,394	4,394
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Apartments Mid Rise	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.41	0.41
Unrefrigerated Warehouse-No Rail	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	722	722
Strip Mall	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	0.01	0.01

Fast Food Restaurant w/o Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.59	2.59
Fast Food Restaurant with Drive Thru	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.59	2.59
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	727	727

4.7. Offroad Emissions By Equipment Type

4.7.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.7.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipme Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8. Stationary Emissions By Equipment Type

4.8.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.8.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9. User Defined Emissions By Equipment Type

4.9.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.9.2. Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Equipment Type	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10. Soil Carbon Accumulation By Vegetation Type

4.10.1. Soil Carbon Accumulation By Vegetation Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.2. Above and Belowground Carbon Accumulation by Land Use Type - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.3. Avoided and Sequestered Emissions by Species - Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Sequest	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.4. Soil Carbon Accumulation By Vegetation Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Vegetation	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.5. Above and Belowground Carbon Accumulation by Land Use Type - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Total	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

4.10.6. Avoided and Sequestered Emissions by Species - Mitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Species	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Removed	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Avoided	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Sequestered	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Remove	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Subtotal	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

5. Activity Data

5.1. Construction Schedule

Phase Name	Phase Type	Start Date	End Date	Days Per Week	Work Days per Phase	Phase Description
Demolition	Demolition	6/2/2025	6/27/2025	5.00	50.0	—
Site Preparation	Site Preparation	6/30/2025	7/11/2025	5.00	30.0	—
Grading	Grading	7/14/2025	8/22/2025	5.00	75.0	—
Building Construction	Building Construction	8/25/2025	10/16/2026	5.00	740	—
Paving	Paving	10/19/2026	11/13/2026	5.00	55.0	—
Architectural Coating	Architectural Coating	11/16/2026	12/11/2026	5.00	55.0	—

5.2. Off-Road Equipment

5.2.1. Unmitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41

Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37
Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.2.2. Mitigated

Phase Name	Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor
Demolition	Rubber Tired Dozers	Diesel	Tier 4 Final	2.00	8.00	367	0.40
Demolition	Excavators	Diesel	Tier 4 Final	3.00	8.00	36.0	0.38
Demolition	Concrete/Industrial Saws	Diesel	Tier 4 Final	1.00	8.00	33.0	0.73
Site Preparation	Rubber Tired Dozers	Diesel	Tier 4 Final	3.00	8.00	367	0.40
Site Preparation	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	4.00	8.00	84.0	0.37
Grading	Graders	Diesel	Tier 4 Final	1.00	8.00	148	0.41
Grading	Excavators	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Grading	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	2.00	8.00	84.0	0.37

Grading	Scrapers	Diesel	Tier 4 Final	2.00	8.00	423	0.48
Grading	Rubber Tired Dozers	Diesel	Tier 4 Final	1.00	8.00	367	0.40
Building Construction	Forklifts	Diesel	Tier 4 Final	3.00	8.00	82.0	0.20
Building Construction	Generator Sets	Diesel	Tier 4 Final	1.00	8.00	14.0	0.74
Building Construction	Cranes	Diesel	Tier 4 Final	1.00	7.00	367	0.29
Building Construction	Welders	Diesel	Tier 4 Final	1.00	8.00	46.0	0.45
Building Construction	Tractors/Loaders/Backhoes	Diesel	Tier 4 Final	3.00	7.00	84.0	0.37
Paving	Pavers	Diesel	Tier 4 Final	2.00	8.00	81.0	0.42
Paving	Paving Equipment	Diesel	Tier 4 Final	2.00	8.00	89.0	0.36
Paving	Rollers	Diesel	Tier 4 Final	2.00	8.00	36.0	0.38
Architectural Coating	Air Compressors	Diesel	Average	1.00	6.00	37.0	0.48

5.3. Construction Vehicles

5.3.1. Unmitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT
Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—

Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	416	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	81.6	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	83.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.3.2. Mitigated

Phase Name	Trip Type	One-Way Trips per Day	Miles per Trip	Vehicle Mix
Demolition	—	—	—	—
Demolition	Worker	15.0	18.5	LDA,LDT1,LDT2
Demolition	Vendor	—	10.2	HHDT,MHDT
Demolition	Hauling	0.00	20.0	HHDT
Demolition	Onsite truck	—	—	HHDT

Site Preparation	—	—	—	—
Site Preparation	Worker	17.5	18.5	LDA,LDT1,LDT2
Site Preparation	Vendor	—	10.2	HHDT,MHDT
Site Preparation	Hauling	0.00	20.0	HHDT
Site Preparation	Onsite truck	—	—	HHDT
Grading	—	—	—	—
Grading	Worker	20.0	18.5	LDA,LDT1,LDT2
Grading	Vendor	—	10.2	HHDT,MHDT
Grading	Hauling	0.00	20.0	HHDT
Grading	Onsite truck	—	—	HHDT
Building Construction	—	—	—	—
Building Construction	Worker	416	18.5	LDA,LDT1,LDT2
Building Construction	Vendor	81.6	10.2	HHDT,MHDT
Building Construction	Hauling	0.00	20.0	HHDT
Building Construction	Onsite truck	—	—	HHDT
Paving	—	—	—	—
Paving	Worker	15.0	18.5	LDA,LDT1,LDT2
Paving	Vendor	—	10.2	HHDT,MHDT
Paving	Hauling	0.00	20.0	HHDT
Paving	Onsite truck	—	—	HHDT
Architectural Coating	—	—	—	—
Architectural Coating	Worker	83.2	18.5	LDA,LDT1,LDT2
Architectural Coating	Vendor	—	10.2	HHDT,MHDT
Architectural Coating	Hauling	0.00	20.0	HHDT
Architectural Coating	Onsite truck	—	—	HHDT

5.4. Vehicles

5.4.1. Construction Vehicle Control Strategies

Control Strategies Applied	PM10 Reduction	PM2.5 Reduction
Water unpaved roads twice daily	55%	55%

5.5. Architectural Coatings

Phase Name	Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
Architectural Coating	705,672	235,224	290,738	96,913	29,272

5.6. Dust Mitigation

5.6.1. Construction Earthmoving Activities

Phase Name	Material Imported (cy)	Material Exported (cy)	Acres Graded (acres)	Material Demolished (sq. ft.)	Acres Paved (acres)
Demolition	0.00	0.00	0.00	—	—
Site Preparation	—	—	45.0	0.00	—
Grading	—	—	225	0.00	—
Paving	0.00	0.00	0.00	0.00	11.2

5.6.2. Construction Earthmoving Control Strategies

Non-applicable. No control strategies activated by user.

5.7. Construction Paving

Land Use	Area Paved (acres)	% Asphalt
Apartments Mid Rise	—	0%
Parking Lot	11.2	100%
Unrefrigerated Warehouse-No Rail	0.00	0%
Strip Mall	0.00	0%

Fast Food Restaurant w/o Drive Thru	0.00	0%
Fast Food Restaurant with Drive Thru	0.00	0%

5.8. Construction Electricity Consumption and Emissions Factors

kWh per Year and Emission Factor (lb/MWh)

Year	kWh per Year	CO2	CH4	N2O
2025	0.00	532	0.03	< 0.005
2026	0.00	532	0.03	< 0.005

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	2,428	2,428	2,428	886,169	22,794	22,794	22,794	8,319,847
Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	139	139	139	50,691	1,591	1,591	1,591	580,611
Fast Food Restaurant w/o Drive Thru	1,766	1,766	1,766	644,590	20,228	20,228	20,228	7,383,062
Fast Food Restaurant with Drive Thru	1,936	1,939	1,936	706,796	22,175	22,209	22,175	8,095,567

5.9.2. Mitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Apartments Mid Rise	2,428	2,428	2,428	886,169	22,794	22,794	22,794	8,319,847

Parking Lot	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Unrefrigerated Warehouse-No Rail	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Strip Mall	139	139	139	50,691	1,591	1,591	1,591	580,611
Fast Food Restaurant w/o Drive Thru	1,766	1,766	1,766	644,590	20,228	20,228	20,228	7,383,062
Fast Food Restaurant with Drive Thru	1,936	1,939	1,936	706,796	22,175	22,209	22,175	8,095,567

5.10. Operational Area Sources

5.10.1. Hearths

5.10.1.1. Unmitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0
Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.1.2. Mitigated

Hearth Type	Unmitigated (number)
Apartments Mid Rise	—
Wood Fireplaces	0
Gas Fireplaces	0

Propane Fireplaces	0
Electric Fireplaces	0
No Fireplaces	0

5.10.2. Architectural Coatings

Residential Interior Area Coated (sq ft)	Residential Exterior Area Coated (sq ft)	Non-Residential Interior Area Coated (sq ft)	Non-Residential Exterior Area Coated (sq ft)	Parking Area Coated (sq ft)
705672	235,224	290,738	96,913	29,272

5.10.3. Landscape Equipment

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.10.4. Landscape Equipment - Mitigated

Season	Unit	Value
Snow Days	day/yr	0.00
Summer Days	day/yr	250

5.11. Operational Energy Consumption

5.11.1. Unmitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	2,011,332	532	0.0330	0.0040	5,143,326
Parking Lot	427,376	532	0.0330	0.0040	0.00

Unrefrigerated Warehouse-No Rail	755,620	532	0.0330	0.0040	3,110,147
Strip Mall	99,472	532	0.0330	0.0040	60,281
Fast Food Restaurant w/o Drive Thru	350,667	532	0.0330	0.0040	1,142,709
Fast Food Restaurant with Drive Thru	350,667	532	0.0330	0.0040	1,142,709

5.11.2. Mitigated

Electricity (kWh/yr) and CO2 and CH4 and N2O and Natural Gas (kBTU/yr)

Land Use	Electricity (kWh/yr)	CO2	CH4	N2O	Natural Gas (kBTU/yr)
Apartments Mid Rise	2,011,332	532	0.0330	0.0040	5,143,326
Parking Lot	427,376	532	0.0330	0.0040	0.00
Unrefrigerated Warehouse-No Rail	755,620	532	0.0330	0.0040	3,110,147
Strip Mall	99,472	532	0.0330	0.0040	60,281
Fast Food Restaurant w/o Drive Thru	350,667	532	0.0330	0.0040	1,142,709
Fast Food Restaurant with Drive Thru	350,667	532	0.0330	0.0040	1,142,709

5.12. Operational Water and Wastewater Consumption

5.12.1. Unmitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	19,423,428	1,138,845
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	37,693,750	636,584
Strip Mall	740,725	0.00

Fast Food Restaurant w/o Drive Thru	3,035,337	0.00
Fast Food Restaurant with Drive Thru	3,035,337	0.00

5.12.2. Mitigated

Land Use	Indoor Water (gal/year)	Outdoor Water (gal/year)
Apartments Mid Rise	19,423,428	1,138,845
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	37,693,750	636,584
Strip Mall	740,725	0.00
Fast Food Restaurant w/o Drive Thru	3,035,337	0.00
Fast Food Restaurant with Drive Thru	3,035,337	0.00

5.13. Operational Waste Generation

5.13.1. Unmitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	104	0.00
Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	153	0.00
Strip Mall	10.5	0.00
Fast Food Restaurant w/o Drive Thru	115	0.00
Fast Food Restaurant with Drive Thru	115	0.00

5.13.2. Mitigated

Land Use	Waste (ton/year)	Cogeneration (kWh/year)
Apartments Mid Rise	104	0.00

Parking Lot	0.00	0.00
Unrefrigerated Warehouse-No Rail	153	0.00
Strip Mall	10.5	0.00
Fast Food Restaurant w/o Drive Thru	115	0.00
Fast Food Restaurant with Drive Thru	115	0.00

5.14. Operational Refrigeration and Air Conditioning Equipment

5.14.1. Unmitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00

Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.14.2. Mitigated

Land Use Type	Equipment Type	Refrigerant	GWP	Quantity (kg)	Operations Leak Rate	Service Leak Rate	Times Serviced
Apartments Mid Rise	Average room A/C & Other residential A/C and heat pumps	R-410A	2,088	< 0.005	2.50	2.50	10.0
Apartments Mid Rise	Household refrigerators and/or freezers	R-134a	1,430	0.12	0.60	0.00	1.00
Unrefrigerated Warehouse-No Rail	Cold storage	R-404A	3,922	7.50	7.50	7.50	25.0
Strip Mall	Other commercial A/C and heat pumps	R-410A	2,088	< 0.005	4.00	4.00	18.0
Strip Mall	Stand-alone retail refrigerators and freezers	R-134a	1,430	0.04	1.00	0.00	1.00
Strip Mall	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant w/o Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant w/o Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant w/o Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0
Fast Food Restaurant with Drive Thru	Household refrigerators and/or freezers	R-134a	1,430	0.00	0.60	0.00	1.00
Fast Food Restaurant with Drive Thru	Other commercial A/C and heat pumps	R-410A	2,088	1.80	4.00	4.00	18.0
Fast Food Restaurant with Drive Thru	Walk-in refrigerators and freezers	R-404A	3,922	< 0.005	7.50	7.50	20.0

5.15. Operational Off-Road Equipment

5.15.1. Unmitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.15.2. Mitigated

Equipment Type	Fuel Type	Engine Tier	Number per Day	Hours Per Day	Horsepower	Load Factor

5.16. Stationary Sources

5.16.1. Emergency Generators and Fire Pumps

Equipment Type	Fuel Type	Number per Day	Hours per Day	Hours per Year	Horsepower	Load Factor

5.16.2. Process Boilers

Equipment Type	Fuel Type	Number	Boiler Rating (MMBtu/hr)	Daily Heat Input (MMBtu/day)	Annual Heat Input (MMBtu/yr)

5.17. User Defined

Equipment Type	Fuel Type
—	—

5.18. Vegetation

5.18.1. Land Use Change

5.18.1.1. Unmitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Vegetation Land Use Type	Vegetation Soil Type	Initial Acres	Final Acres

5.18.1. Biomass Cover Type

5.18.1.1. Unmitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.1.2. Mitigated

Biomass Cover Type	Initial Acres	Final Acres

5.18.2. Sequestration

5.18.2.1. Unmitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

5.18.2.2. Mitigated

Tree Type	Number	Electricity Saved (kWh/year)	Natural Gas Saved (btu/year)

6. Climate Risk Detailed Report

6.1. Climate Risk Summary

Cal-Adapt midcentury 2040–2059 average projections for four hazards are reported below for your project location. These are under Representation Concentration Pathway (RCP) 8.5 which assumes GHG emissions will continue to rise strongly through 2050 and then plateau around 2100.

Climate Hazard	Result for Project Location	Unit
Temperature and Extreme Heat	19.8	annual days of extreme heat

Extreme Precipitation	4.05	annual days with precipitation above 20 mm
Sea Level Rise	0.00	meters of inundation depth
Wildfire	0.00	annual hectares burned

Temperature and Extreme Heat data are for grid cell in which your project are located. The projection is based on the 98th historical percentile of daily maximum/minimum temperatures from observed historical data (32 climate model ensemble from Cal-Adapt, 2040–2059 average under RCP 8.5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Extreme Precipitation data are for the grid cell in which your project are located. The threshold of 20 mm is equivalent to about ¾ an inch of rain, which would be light to moderate rainfall if received over a full day or heavy rain if received over a period of 2 to 4 hours. Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.
Sea Level Rise data are for the grid cell in which your project are located. The projections are from Radke et al. (2017), as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider different increments of sea level rise coupled with extreme storm events. Users may select from four model simulations to view the range in potential inundation depth for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 50 meters (m) by 50 m, or about 164 feet (ft) by 164 ft.
Wildfire data are for the grid cell in which your project are located. The projections are from UC Davis, as reported in Cal-Adapt (2040–2059 average under RCP 8.5), and consider historical data of climate, vegetation, population density, and large (> 400 ha) fire history. Users may select from four model simulations to view the range in potential wildfire probabilities for the grid cell. The four simulations make different assumptions about expected rainfall and temperature are: Warmer/drier (HadGEM2-ES), Cooler/wetter (CNRM-CM5), Average conditions (CanESM2), Range of different rainfall and temperature possibilities (MIROC5). Each grid cell is 6 kilometers (km) by 6 km, or 3.7 miles (mi) by 3.7 mi.

6.2. Initial Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	0	0	N/A
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	0	0	N/A
Wildfire	1	0	0	N/A
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	0	0	0	N/A

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores do not include implementation of climate risk reduction measures.

6.3. Adjusted Climate Risk Scores

Climate Hazard	Exposure Score	Sensitivity Score	Adaptive Capacity Score	Vulnerability Score
Temperature and Extreme Heat	2	1	1	3
Extreme Precipitation	N/A	N/A	N/A	N/A
Sea Level Rise	1	1	1	2
Wildfire	1	1	1	2
Flooding	N/A	N/A	N/A	N/A
Drought	N/A	N/A	N/A	N/A
Snowpack Reduction	N/A	N/A	N/A	N/A
Air Quality Degradation	1	1	1	2

The sensitivity score reflects the extent to which a project would be adversely affected by exposure to a climate hazard. Exposure is rated on a scale of 1 to 5, with a score of 5 representing the greatest exposure.
The adaptive capacity of a project refers to its ability to manage and reduce vulnerabilities from projected climate hazards. Adaptive capacity is rated on a scale of 1 to 5, with a score of 5 representing the greatest ability to adapt.
The overall vulnerability scores are calculated based on the potential impacts and adaptive capacity assessments for each hazard. Scores include implementation of climate risk reduction measures.

6.4. Climate Risk Reduction Measures

7. Health and Equity Details

7.1. CalEnviroScreen 4.0 Scores

The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Exposure Indicators	—
AQ-Ozone	80.1
AQ-PM	95.9
AQ-DPM	61.4
Drinking Water	99.7
Lead Risk Housing	10.0
Pesticides	76.9

Toxic Releases	70.5
Traffic	12.6
Effect Indicators	—
CleanUp Sites	19.0
Groundwater	97.8
Haz Waste Facilities/Generators	63.9
Impaired Water Bodies	43.8
Solid Waste	95.7
Sensitive Population	—
Asthma	42.6
Cardio-vascular	67.7
Low Birth Weights	45.9
Socioeconomic Factor Indicators	—
Education	52.1
Housing	11.2
Linguistic	75.8
Poverty	34.7
Unemployment	49.9

7.2. Healthy Places Index Scores

The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

Indicator	Result for Project Census Tract
Economic	—
Above Poverty	80.61080457
Employed	84.28076479
Median HI	74.02797382
Education	—

Bachelor's or higher	64.24996792
High school enrollment	100
Preschool enrollment	21.59630438
Transportation	—
Auto Access	80.12318748
Active commuting	28.08931092
Social	—
2-parent households	68.63852175
Voting	58.7963557
Neighborhood	—
Alcohol availability	77.23598101
Park access	50.75067368
Retail density	13.56345438
Supermarket access	57.55164892
Tree canopy	14.56435262
Housing	—
Homeownership	67.43231105
Housing habitability	76.73553189
Low-inc homeowner severe housing cost burden	83.54933915
Low-inc renter severe housing cost burden	44.41165148
Uncrowded housing	60.77248813
Health Outcomes	—
Insured adults	78.89131272
Arthritis	80.8
Asthma ER Admissions	59.0
High Blood Pressure	87.7
Cancer (excluding skin)	71.8

Asthma	55.1
Coronary Heart Disease	88.8
Chronic Obstructive Pulmonary Disease	74.0
Diagnosed Diabetes	73.9
Life Expectancy at Birth	56.4
Cognitively Disabled	91.4
Physically Disabled	90.7
Heart Attack ER Admissions	29.6
Mental Health Not Good	53.9
Chronic Kidney Disease	85.5
Obesity	57.9
Pedestrian Injuries	43.5
Physical Health Not Good	62.9
Stroke	84.7
Health Risk Behaviors	—
Binge Drinking	29.5
Current Smoker	54.4
No Leisure Time for Physical Activity	61.9
Climate Change Exposures	—
Wildfire Risk	0.0
SLR Inundation Area	0.0
Children	11.1
Elderly	89.5
English Speaking	63.5
Foreign-born	35.4
Outdoor Workers	64.2
Climate Change Adaptive Capacity	—

Impervious Surface Cover	72.5
Traffic Density	14.9
Traffic Access	23.0
Other Indices	—
Hardship	39.2
Other Decision Support	—
2016 Voting	78.3

7.3. Overall Health & Equity Scores

Metric	Result for Project Census Tract
CalEnviroScreen 4.0 Score for Project Location (a)	73.0
Healthy Places Index Score for Project Location (b)	70.0
Project Located in a Designated Disadvantaged Community (Senate Bill 535)	No
Project Located in a Low-Income Community (Assembly Bill 1550)	No
Project Located in a Community Air Protection Program Community (Assembly Bill 617)	No

a: The maximum CalEnviroScreen score is 100. A high score (i.e., greater than 50) reflects a higher pollution burden compared to other census tracts in the state.
b: The maximum Health Places Index score is 100. A high score (i.e., greater than 50) reflects healthier community conditions compared to other census tracts in the state.

7.4. Health & Equity Measures

No Health & Equity Measures selected.

7.5. Evaluation Scorecard

Health & Equity Evaluation Scorecard not completed.

7.6. Health & Equity Custom Measures

No Health & Equity Custom Measures created.

8. User Changes to Default Data

Screen	Justification

Land Use	Per Site Plan Acreage, Specific Plan requires 10 percent landscape coverage, Mixed-use Landscape in Residential Landscape Area
Operations: Vehicle Data	Per Trip Generation, Industrial Trips modeled separately
Operations: Hearths	Wood burning not allowed per SCAQMD regulation
Construction: Construction Phases	Assumed Construction Schedule
Construction: Off-Road Equipment	Tier 4 Construction Equipment Mitigation

Euclid Future Industrial (Operation Cars) Custom Report

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5.9.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Euclid Future Industrial (Operation Cars)
Construction Start Date	6/2/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	34.00138042929416, -117.64823132511121
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5259
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.8

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	163	1000sqft	9.10	163,600	39,640	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.60	0.55	0.36	6.75	0.02	0.01	0.66	0.67	0.01	0.11	0.12	—	1,661	1,661	0.05	0.04	5.50	1,679
Total	0.60	0.55	0.36	6.75	0.02	0.01	0.66	0.67	0.01	0.11	0.12	—	1,661	1,661	0.05	0.04	5.50	1,679
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.57	0.52	0.40	5.44	0.02	0.01	0.66	0.67	0.01	0.11	0.12	—	1,528	1,528	0.05	0.04	0.14	1,542
Total	0.57	0.52	0.40	5.44	0.02	0.01	0.66	0.67	0.01	0.11	0.12	—	1,528	1,528	0.05	0.04	0.14	1,542
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.10	0.09	0.07	1.04	< 0.005	< 0.005	0.12	0.12	< 0.005	0.02	0.02	—	256	256	0.01	0.01	0.39	259
Total	0.10	0.09	0.07	1.04	< 0.005	< 0.005	0.12	0.12	< 0.005	0.02	0.02	—	256	256	0.01	0.01	0.39	259

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	181	181	181	66,039	2,455	2,455	2,455	896,143

8. User Changes to Default Data

Screen	Justification
Land Use	Per Site Plan
Operations: Vehicle Data	Per Traffic Study and Trip Generation
Operations: Fleet Mix	Per Fleet mix based on Trip Generation, Cars Only

Euclid Future Industrial (Operational Trucks) Custom Report

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4.1.1. Unmitigated

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

8. User Changes to Default Data

1. Basic Project Information

1.1. Basic Project Information

Data Field	Value
Project Name	Euclid Future Industrial (Operational Trucks)
Construction Start Date	6/2/2025
Operational Year	2027
Lead Agency	—
Land Use Scale	Project/site
Analysis Level for Defaults	County
Windspeed (m/s)	2.60
Precipitation (days)	9.20
Location	34.001231277264125, -117.6481293595662
County	San Bernardino-South Coast
City	Ontario
Air District	South Coast AQMD
Air Basin	South Coast
TAZ	5259
EDFZ	10
Electric Utility	Southern California Edison
Gas Utility	Southern California Gas
App Version	2022.1.1.8

1.2. Land Use Types

Land Use Subtype	Size	Unit	Lot Acreage	Building Area (sq ft)	Landscape Area (sq ft)	Special Landscape Area (sq ft)	Population	Description

Unrefrigerated Warehouse-No Rail	163	1000sqft	9.10	163,600	39,640	—	—	—

1.3. User-Selected Emission Reduction Measures by Emissions Sector

No measures selected

4. Operations Emissions Details

4.1. Mobile Emissions by Land Use

4.1.1. Unmitigated

Criteria Pollutants (lb/day for daily, ton/yr for annual) and GHGs (lb/day for daily, MT/yr for annual)

Land Use	TOG	ROG	NOx	CO	SO2	PM10E	PM10D	PM10T	PM2.5E	PM2.5D	PM2.5T	BCO2	NBCO2	CO2T	CH4	N2O	R	CO2e
Daily, Summer (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.86	0.20	8.96	4.74	0.08	0.14	1.49	1.63	0.13	0.35	0.48	—	9,005	9,005	0.64	1.37	23.3	9,453
Total	0.86	0.20	8.96	4.74	0.08	0.14	1.49	1.63	0.13	0.35	0.48	—	9,005	9,005	0.64	1.37	23.3	9,453
Daily, Winter (Max)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Unrefrigerated Warehouse-No Rail	0.86	0.19	9.35	4.76	0.08	0.14	1.49	1.63	0.13	0.35	0.48	—	9,007	9,007	0.64	1.37	0.61	9,432
Total	0.86	0.19	9.35	4.76	0.08	0.14	1.49	1.63	0.13	0.35	0.48	—	9,007	9,007	0.64	1.37	0.61	9,432
Annual	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Unrefrige Warehouse-No Rail	0.16	0.04	1.73	0.87	0.01	0.03	0.27	0.30	0.02	0.06	0.09	—	1,491	1,491	0.11	0.23	1.67	1,563
Total	0.16	0.04	1.73	0.87	0.01	0.03	0.27	0.30	0.02	0.06	0.09	—	1,491	1,491	0.11	0.23	1.67	1,563

5. Activity Data

5.9. Operational Mobile Sources

5.9.1. Unmitigated

Land Use Type	Trips/Weekday	Trips/Saturday	Trips/Sunday	Trips/Year	VMT/Weekday	VMT/Saturday	VMT/Sunday	VMT/Year
Unrefrigerated Warehouse-No Rail	97.8	97.8	97.8	35,697	3,247	3,247	3,247	1,185,140

8. User Changes to Default Data

Screen	Justification
Land Use	Per Site Plan
Operations: Vehicle Data	Per Trip Generation, Truck Trip Lengths based on CARB Drayage Truck Study
Operations: Fleet Mix	Per Trip Generation and Fleet Mix

Model Output: OFFROAD2021 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2026
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Year	Vehicle Category	Model Year	Horsepower Bir	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	Total_Activity_I	Total_Population	Horsepower_Hours_hhpy
San Bernardino (SC)	2026	Industrial - Forklifts	Aggregate	100	Diesel	0.003191259	0.003861423	0.004595413	0.056193716	0.036768176	8.254799071	0.001755636	0.001615185	7.64189E-05	6.75467E-05	268501.956	313883.3069	399.4763952	25865233.48

g/hph

	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2024	0.040854654	0.049434132	0.058830702	0.71939473	0.470708016	105.67835	0.022475735	0.0206777	0.000978319	0.000864736	3437375.338

		Phase 1	Phase 2
Project Forklifts	23	20	3
HP	89		
Hours per Day	12		
Days per Year	365		
1 pound =	453.5924 grams		

Emissions Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	metric tons/yr	PM10 tons/yr
Phase 1 Forklift Emissions	2.33	22.18	33.90	0.05	1.06	0.97	4,979	824	0.193
Phase 2 Forklift Emissions	0.38	3.63	5.54	0.01	0.17	0.16	814	135	0.032

Based on emission rates obtained from CARB OFFROAD Version 1.0.3.
Number of forklifts per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

Model Output: OFFROAD2021 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: Orange (SC)
Calendar Year: 2026
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Ye	Vehicle Category	Model Year	Horsepower B	Fuel	HC_tpd	ROG_tpd	TOG_tpd	CO_tpd	NOx_tpd	CO2_tpd	PM10_tpd	PM2.5_tpd	SOx_tpd	NH3_tpd	Fuel Consumption	Total_Activ	Total_Population	Horsepower_Hours_hhpy
Orange (SC)	2026	Airport Ground Support - Cargo Loader	Aggregate	Aggregate	Diesel	0.000138177	0.000167194	0.000198975	0.003349	0.00164	0.602567	5.74788E-05	5.28805E-05	5.58112E-06	4.93064E-06	19599.56758	9648.696	20.1215724	1130203.838
Orange (SC)	2026	Airport Ground Support - Cargo Tractor	Aggregate	Aggregate	Diesel	0.000199182	0.00024101	0.000286821	0.002584	0.002035	0.491659	9.52695E-05	8.76479E-05	4.55127E-06	4.0231E-06	15992.07434	9065.734	13.34264694	852978.5119
Orange (SC)	2026	Airport Ground Support - Misc - Cargo Tractor	Aggregate	Aggregate	Gasoline	0.004857507	0.004467935	0.005345391	0.46768	0.023557	5.47373	0.000381642	0.000288351	4.51917E-05	8.25338E-05	235592.9	45621.35	33.74	4334028.25

g/hph

	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2023	0.040483145	0.048984606	0.058295729	0.9812663	0.4803943	176.54063	0.016840194	0.015492978	0.00163516	0.001444581	5742296.562
	0.077322678	0.09356044	0.111344656	1.0032862	0.7901841	190.86297	0.036983813	0.034025108	0.00176681	0.001561777	6208155.912
	0.371122807	0.341358758	0.408398011	35.731625	1.7997686	418.20337	0.029158141	0.022030596	0.003452729	0.006305736	17999745.57

	HC	ROG	TOG	CO	Nox	CO2	PM10	PM2_5	Sox	NH3	Fuel_gphr
2023	0.814584537	0.98564729	1.173001733	19.744622	9.6662878	3552.2751	0.338851179	0.311743084	0.032901997	0.029067249	115544036
	1.031689194	1.248343924	1.485632439	13.386493	10.543147	2546.6172	0.493461965	0.453985008	0.023573929	0.020838239	82833232.49
	12.52168351	11.51744449	13.77934888	1205.585	60.724193	14110.182	0.983795685	0.743312295	0.116495079	0.212755518	607311415.5
	14.36795724	13.7514357	16.43798305	1238.7161	80.933628	20209.074	1.816108828	1.509040387	0.172971005	0.262661006	805688684.1
	0.213795464	0.204621612	0.244597485	18.432118	1.2042939	300.71139	0.027023732	0.022454548	0.002573812	0.003908401	11988662.2

	Phase 1	Phase 2	
Project Yard Trucks	4	4	1

HP	190
Hours per Day	12
Days per Year	365
1 pound =	453.5924 grams

Emissions Source	ROG	NOX	CO	SO2	PM10	PM2.5	CO2	MT/yr	PM10 tons/yr
Phase 1 Yard Trucks	4.11	24.21	370.60	0.05	0.54	0.45	6046.15	1,001.01	0.099
Phase 2 Yard Trucks	1.03	6.05	92.65	0.01	0.14	0.11	1511.54	250.25	0.025

Based on aggregated emission rates obtained from CARB OFFROAD Version 1.0.1.
Number of yard trucks/hostlers per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

Emergency Backup Generator Emissions

	Fuel Type	Quantity	HP	LF	Hours/Year per Unit	Hours per Day	HP-hr per day	Total hp-hr per year
Standard Generator	Diesel	14	750	0.74	50	1	10,500	525,000

	HC	ROG	TOG	CO	NO_X	CO_2	PM_{10}	$PM_{2.5}$	PM	SO_X
Emissions Rates (g/hp-hr)	0.14	1.0205827	1.1249089	2.6	2.85	521.63114	0.15	0.15	0.15	0.00494
Pounds/Day	3.24	23.63	26.04	60.19	65.97	12075.00	3.47	3.47	3.47	0.11
Tons/Year	0.08	0.59	0.65	1.50	1.65	301.87	0.09	0.09	0.09	0.00
Metric tons/year						273.86				

Source: Emissions rates from CalEEMod Guide Appenix D, Table 12.1

Equipment	Number of Equipment[1]	Hours per Day[1]	Days per Year[1]	Equipment Size[2] (hp)	Equipment Size (kW)	Load Factor[2]	SCE electricity emission factor[3] (MT CO_2e/MWh)	Emissions (MT CO_2e/year)
Forklifts	20	8	365	89	66.4	0.2	0.24	184.4
Yard Trucks	4	8	365	200	149.1	0.38	0.24	157.5
Total								**341.9**

Notes:

[1] Project-specific data.

[2] Equipment size and load factors based on CalEEMod Appendix D, Table 3.3.

[3] CO_2e intensity factor for SCE accounts for the 33% projected RPS for 2020 consistent with SB 100.

Conversion Factors:

0.7457 kW/hp

1000 kW/MW

Equipment	Number of Equipment[1]	Hours per Day[1]	Days per Year[1]	Equipment Size[2] (hp)	Equipment Size (kW)	Load Factor[2]	SCE electricity emission factor[3] (MT CO_2e/MWh)	Emissions (MT CO_2e/year)
Forklifts	3	8	365	89	66.4	0.2	0.24	27.7
Yard Trucks	1	8	365	200	149.1	0.38	0.24	39.4
Total								**67.0**

Notes:

[1] Project-specific data.

[2] Equipment size and load factors based on CalEEMod Appendix D, Table 3.3.

[3] CO_2e intensity factor for SCE accounts for the 33% projected RPS for 2020 consistent with SB 100.

Conversion Factors:

0.7457 kW/hp

1000 kW/MW

APPENDIX B2

HEALTH RISK ASSESSMENT DATA

PHASE 1 Construction

Construction Duration (days)			
2023	2024	2025	Total
130	327	129	586

Construction

	PM10 Exhaust Onsite [Group: P1ONSITE]			
Year	Tons/Year	g/s	Weighted Average On-Site Rate	
2023	0.096955069	0.023493	1.15E-02	SLINE1
2024	8.86E-02	0.008531		
2025	2.79E-02	0.006816		

Group: P1OFFSITE

	Trips		Miles		Weighted
	Vendor	Hauling	Vendor	Hauling	Trip length
2023	0	1778.25	10.2	20	20.00
2024	39196	151.44	10.2	20	10.24
2025	21156	0	10.2	20	10.20

	PM10 Exhaust Off-Site			
	Tons/Year	g/s	g/s per mile	Weighted Average Off-Site Rate
2023	0.000787272	0.000191	9.53795E-06	7.41E-05
2024	8.92E-03	0.000859	8.39291E-05	
2025	4.77E-03	0.001164	0.000114139	

Group: P1OFFSITE	Speed	Length (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)	
Euclid Ave n/o Edison- 50%	45	1370.3	0.85	7.41E-05	6.31E-05	SLINE2
Edison Ave e/o Euclid - 30%	50	1264.1	0.79	7.41E-05	5.82E-05	SLINE3
Euclid Ave s/o Edison - 20%	45	619	0.38	7.41E-05	2.85E-05	SLINE4
					1.50E-04	

	Plume Width (m)	Segment Length (m)	Source Area (m2)	AERMOD Unitized Emissions Rate (g/s)	
Euclid Ave n/o Edison- 50%	15	1370.3	20554.5	0.498697121	SLINE2
Edison Ave e/o Euclid - 30%	9	1264.1	11376.9	0.276028474	SLINE3
Euclid Ave s/o Edison - 20%	15	619	9285	0.225274405	SLINE4
			41216.4	1	

		On-Site Construction Emissions tons/yr		Off-Site Construction Emissions		tons/yr
Year		Phase	Exhaust PM10	Year	Phase	Exhaust PM10
2023		Demo	0.027003947	2023	Demo	0.000574525
2023		Site Prep	0.009025377	2023	Site Prep	0.00E+00
2023		Grading	0.060925745	2023	Grading	0.000212748
2023						
	2023	Total	0.096955069		Total	0.000787272
2024		Grading	0.016549192	2024	Grading	9.54382E-05
2024		Construction	0.05955376	2024	Construction	0.008824467
2024		Paving	0.01245458	2024	Paving	0.00E+00
	2024	Total	8.86E-02		Total	8.92E-03
2025		Construction	0.027915415	2025	Construction	0.004767846
2025						
	2025		2.79E-02			4.77E-03

PHASE 1 Construction Mitigated

Construction Duration (days)			
2023	2024	2025	Total
130	327	129	586

Construction

	PM10 Exhaust Onsite [Group: P1ONSITE]			
Year	Tons/Year	g/s	Weighted Average On-Site Rate	
2023	0.006660204	0.001614	9.10E-04	SLINE1
2024	7.48E-03	0.000720		
2025	2.79E-03	0.000681		

Group: P1OFFSITE

	Trips		Miles		Weighted
	Vendor	Hauling	Vendor	Hauling	Trip length
2023	0	1778.25	10.2	20	20.00
2024	39196	151.44	10.2	20	10.24
2025	21156	0	10.2	20	10.20

	PM10 Exhaust Off-Site			
	Tons/Year	g/s	g/s per mile	Weighted Average Off-Site Rate
2023	0.000787272	0.000191	9.53795E-06	7.41E-05
2024	8.92E-03	0.000859	8.39291E-05	
2025	4.77E-03	0.001164	0.000114139	

Group: P1OFFSITE	Speed	Length (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)	
Euclid Ave n/o Edison- 50%	45	1370.3	0.85	7.41E-05	6.31E-05	SLINE2
Edison Ave e/o Euclid - 30%	50	1264.1	0.79	7.41E-05	5.82E-05	SLINE3
Euclid Ave s/o Edison - 20%	45	619	0.38	7.41E-05	2.85E-05	SLINE4
					1.50E-04	

	Plume Width (m)	Segment Length (m)	Source Area (m2)	AERMOD Unitized Emissions Rate (g/s)	
Euclid Ave n/o Edison- 50%	15	1370.3	20554.5	0.498697121	SLINE2
Edison Ave e/o Euclid - 30%	9	1264.1	11376.9	0.276028474	SLINE3
Euclid Ave s/o Edison - 20%	15	619	9285	0.225274405	SLINE4
			41216.4	1	

		On-Site Construction Emissions tons/yr		Off-Site Construction Emissions		tons/yr
Year		Phase	Exhaust PM10	Year	Phase	Exhaust PM10
2023		Demo	0.001423556	2023	Demo	0.000574525
2023		Site Prep	0.000497998	2023	Site Prep	0.00E+00
2023		Grading	0.004738651	2023	Grading	0.000212748
2023						
	2023	Total	0.006660204		Total	0.000787272
2024		Grading	0.001417167	2024	Grading	9.54382E-05
2024		Construction	0.005161637	2024	Construction	0.008824467
2024		Paving	0.000900079	2024	Paving	0.00E+00
	2024	Total	7.48E-03		Total	8.92E-03
2025		Construction	0.002788825	2025	Construction	0.004767846
2025						
	2025		2.79E-03			4.77E-03

Phase 1 Operations

	Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)	Plume Width (m)	Segment Length (m)	Source Area (m2)	Unitized Emissions Rate (g/s)	
Group: P1ONRUN													
SLINE6	Onsite - Building 1	15	26	0.01532	272.1	0.17	6.79E-02	7.86E-07	12	272.1	3265.2	0.071417323	SLINE6
SLINE7	Onsite - Building 2	15	29	0.01532	296	0.18	8.17E-02	9.46E-07	12	296	3552	0.077690289	SLINE7
SLINE8	Onsite - Building 3	15	23	0.01532	398.1	0.25	8.72E-02	1.01E-06	12	398.1	4777.2	0.104488189	SLINE8
SLINE9	Onsite - Building 4	15	33	0.01532	161.2	0.10	5.04E-02	5.83E-07	12	161.2	1934.4	0.042309711	SLINE9
SLINE10	Onsite - Building 5	15	55	0.01532	586.5	0.36	3.07E-01	3.55E-06	12	586.5	7038	0.153937008	SLINE10
SLINE11	Onsite - Building 6	15	96	0.01532	243.9	0.15	2.23E-01	2.58E-06	12	243.9	2926.8	0.064015748	SLINE11
SLINE12	Onsite - Building 7	15	56	0.01532	220.5	0.14	1.18E-01	1.36E-06	12	220.5	2646	0.057874016	SLINE12
SLINE13	Onsite - Building 8	15	58	0.01532	123.8	0.08	6.84E-02	7.91E-07	12	123.8	1485.6	0.032493438	SLINE13
SLINE14	Onsite - Building 9	15	65	0.01532	220.4	0.14	1.36E-01	1.58E-06	12	220.4	2644.8	0.057847769	SLINE14
SLINE15	Onsite - Building 10	15	50	0.01532	218.9	0.14	1.04E-01	1.21E-06	12	218.9	2626.8	0.057454068	SLINE15
SLINE16	Onsite - Building 11	15	17	0.01532	226	0.14	3.66E-02	4.23E-07	12	226	2712	0.059317585	SLINE16
SLINE17	Onsite - Building 12	15	15	0.01532	195.9	0.12	2.80E-02	3.24E-07	12	195.9	2350.8	0.051417323	SLINE17
SLINE18	Onsite - Building 13	15	74	0.01532	173.8	0.11	1.22E-01	1.42E-06	12	173.8	2085.6	0.045616798	SLINE18
SLINE39	Onsite - PA4 - 5%	15	44	0.01532	472.9				12	472.9	5674.8	0.124120735	SLINE39
								1.66E-05			45720	1	
Group: P1OFFSITE													
SLINE19	Schaefer betwn Euclid & Sultana - 25%	45	221	0.01016	458.9	0.29	6.39E-01	7.40E-06	13	458.9	5965.7	0.070456918	SLINE19
SLINE20	Sultana btwn Schaefer & Edison - 20%	45	176	0.01016	792.3	0.49	8.83E-01	1.02E-05	12	792.3	9507.6	0.112287945	SLINE20
SLINE21	Edison btwn Euclid & Sultana - 15%	45	132	0.01016	474.9	0.30	3.97E-01	4.59E-06	12	474.9	5698.8	0.06730474	SLINE21
SLINE22	Edison e/o Sultana - 30%	45	265	0.01016	771.6	0.48	1.29E+00	1.49E-05	12	771.6	9259.2	0.109354258	SLINE22
SLINE23	Euclid n/o Schaefer - 50%	45	441	0.01016	595.1	0.37	1.66E+00	1.92E-05	27	595.1	16067.7	0.189764927	SLINE23
SLINE24	Euclid btwn Schaefer & Edison	45	309	0.01016	798	0.50	1.56E+00	1.80E-05	27	798	21546	0.254465488	SLINE24
SLINE25	Euclid s/o Edison - 20%	45	176	0.01016	615.8	0.38	6.86E-01	7.94E-06	27	615.8	16626.6	0.196365724	SLINE25
								8.23E-05	Total Area (m^2)		84671.6	1	

Group: P1	Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Idling Emission Rate (g/sec)	Forklift (PM_{10}) (g/sec)	Hostler (PM_{10}) (g/sec)	Total Emission Rate (g/sec)	AERMOD Unitized Emissions Rate (g/s)	
SLINE26	Building 1 Idle	Idle	13	0.001631213	0.25	5.35E-03	6.19E-08	2.78E-04	0.00E+00	2.78E-04	0.0330408	SLINE26
SLINE27	Building 2 Idle	Idle	15	0.001631213	0.25	5.91E-03	6.84E-08	2.78E-04	0.00E+00	2.78E-04	0.0330416	SLINE27
SLINE28	Building 3 Idle	Idle	12	0.001631213	0.25	4.69E-03	5.43E-08	2.78E-04	0.00E+00	2.78E-04	0.0330399	SLINE28
SLINE29	Building 4 Idle	Idle	16	0.001631213	0.25	6.69E-03	7.75E-08	2.78E-04	0.00E+00	2.78E-04	0.0330427	SLINE29
SLINE30	Building 5 Idle	Idle	28	0.001631213	0.25	1.12E-02	1.30E-07	5.56E-04	7.13E-04	1.27E-03	0.1508732	SLINE30
SLINE31	Building 6 Idle	Idle	48	0.001631213	0.25	1.96E-02	2.27E-07	8.33E-04	7.13E-04	1.55E-03	0.1839182	SLINE31
SLINE32	Building 7 Idle	Idle	28	0.001631213	0.25	1.14E-02	1.32E-07	5.56E-04	0.00E+00	5.56E-04	0.0660826	SLINE32
SLINE33	Building 8 Idle	Idle	29	0.001631213	0.25	1.18E-02	1.37E-07	5.56E-04	7.13E-04	1.27E-03	0.1508740	SLINE33
SLINE34	Building 9 Idle	Idle	33	0.001631213	0.25	1.33E-02	1.53E-07	5.56E-04	7.13E-04	1.27E-03	0.1508760	SLINE34
SLINE35	Building 10 Idle	Idle	25	0.001631213	0.25	1.02E-02	1.18E-07	2.78E-04	0.00E+00	2.78E-04	0.0330475	SLINE35
SLINE36	Building 11 Idle	Idle	9	0.001631213	0.25	3.47E-03	4.01E-08	2.78E-04	0.00E+00	2.78E-04	0.0330382	SLINE36
SLINE37	Building 12 Idle	Idle	8	0.001631213	0.25	3.06E-03	3.54E-08	2.78E-04	0.00E+00	2.78E-04	0.0330377	SLINE37
SLINE38	Building 13 Idle	Idle	37	0.001631213	0.25	1.51E-02	1.75E-07	5.56E-04	0.00E+00	5.56E-04	0.0660877	SLINE38
										8.41E-03	1.00E+00	

Unitized emission rates (1 g/s) were used for source groups in AERMOD.
Truck routes were composed of several street segments, thus the emission rate for each segment needed to sum to 1.0.
The emission rate for each segment was based on the area of the segment (segment length x segment width) divided by the total area of the route (sum of each segment's area).

Group: GE	Generators	# of Generators	Emission factor (tons/yr)	Emission factor (g/sec)	AERMOD Unitized Emissions Rate (g/s)
Area1	PA 1	7	0.043403	1.25E-03	0.5000
Area2	PA 2	6	0.037203	1.07E-03	0.4286
Area3	PA 3A	1	0.006200	1.78E-04	0.0714
				0.00250	1.0000

* variable emissions - 1 hour a week (asumed Monday 1pm)

Phase 1 Operations - Mitigated

Group: P1ONIDLE			Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Idling Emission Rate (g/sec)	Forklift (PM_{10}) (g/sec)	Hostler (PM_{10}) (g/sec)	Total Emission Rate (g/sec)	AERMOD Unitized Emissions Rate (g/s)	
SLINE26	26	26	Building 1 Idle	Idle	13	0.001631213	0.25	5.35E-03	6.19E-08	0.00E+00	0.00E+00	6.19E-08	0.0439137	SLINE26
SLINE27	27	27	Building 2 Idle	Idle	15	0.001631213	0.25	5.91E-03	6.84E-08	0.00E+00	0.00E+00	6.84E-08	0.0485592	SLINE27
SLINE28	28	28	Building 3 Idle	Idle	12	0.001631213	0.25	4.69E-03	5.43E-08	0.00E+00	0.00E+00	5.43E-08	0.0385124	SLINE28
SLINE29	29	29	Building 4 Idle	Idle	16	0.001631213	0.25	6.69E-03	7.75E-08	0.00E+00	0.00E+00	7.75E-08	0.0549656	SLINE29
SLINE30	30	30	Building 5 Idle	Idle	28	0.001631213	0.25	1.12E-02	1.30E-07	0.00E+00	0.00E+00	1.30E-07	0.0920950	SLINE30
SLINE31	31	31	Building 6 Idle	Idle	48	0.001631213	0.25	1.96E-02	2.27E-07	0.00E+00	0.00E+00	2.27E-07	0.1609194	SLINE31
SLINE32	32	32	Building 7 Idle	Idle	28	0.001631213	0.25	1.14E-02	1.32E-07	0.00E+00	0.00E+00	1.32E-07	0.0937694	SLINE32
SLINE33	33	33	Building 8 Idle	Idle	29	0.001631213	0.25	1.18E-02	1.37E-07	0.00E+00	0.00E+00	1.37E-07	0.0971183	SLINE33
SLINE34	34	34	Building 9 Idle	Idle	33	0.001631213	0.25	1.33E-02	1.53E-07	0.00E+00	0.00E+00	1.53E-07	0.1088395	SLINE34
SLINE35	35	35	Building 10 Idle	Idle	25	0.001631213	0.25	1.02E-02	1.18E-07	0.00E+00	0.00E+00	1.18E-07	0.0837997	SLINE35
SLINE36	36	36	Building 11 Idle	Idle	9	0.001631213	0.25	3.47E-03	4.01E-08	0.00E+00	0.00E+00	4.01E-08	0.0284657	SLINE36
SLINE37	37	37	Building 12 Idle	Idle	8	0.001631213	0.25	3.06E-03	3.54E-08	0.00E+00	0.00E+00	3.54E-08	0.0251323	SLINE37
SLINE38	38	38	Building 13 Idle	Idle	37	0.001631213	0.25	1.51E-02	1.75E-07	0.00E+00	0.00E+00	1.75E-07	0.1239096	SLINE38
												1.41E-06	1.00E+00	

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

	Project Mix	Idle (g/trip)	15 mph (g/mi)	45 mph (g/mi)	50 mph (g/mi)	55 mph (g/mi)	25 mph (g/mi)
HHDT	0.48	0.002072865	0.008463523	0.011683635	0.014933571	0.01913136	0.006295
LHDT2	0.22	0.001296389	0.032525194	0.012864866	0.011482486	0.010926727	0.025999
MHDT	0.29	0.001160756	0.013447241	0.00559777	0.006513224	0.007925989	0.006816
Weighted Rates	1.00	0.001631213	0.015322276	0.010163879	0.011690145	0.014004945	0.010868

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	PM10_IDLEX	
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Gasoline	3.869766832	177.2217014	77.42629477	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Diesel	14693.60242	1799109.244	221962.6286	0.031647093	465.0098061
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Electricity	109.5985203	11409.19414	1368.406052	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Natural Gas	2560.5176	164963.5875	14771.25816	0.011210497	28.70467597
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Gasoline	2823.949841	99825.11713	42072.64494	0	0
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Diesel	4888.887446	187525.0486	61496.05385	0.027595541	134.9114939
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Electricity	37.58571717	2461.549606	498.4225452	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Gasoline	1427.423114	76828.767	28559.88167	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Diesel	15347.54129	658670.5437	188328.1928	0.016417979	251.9756033
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Electricity	133.1585562	6928.399641	1697.434032	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Natural Gas	208.419151	9895.426472	1924.329451	0.019107774	3.98242606

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	PM10_RUNEX	
San Bernardino (SC)	2025	HHDT	Aggregate	15	Gasoline	0.118162883	0.007884431	0.000931647
San Bernardino (SC)	2025	HHDT	Aggregate	15	Diesel	759.0544009	0.009033766	6.857120092
San Bernardino (SC)	2025	HHDT	Aggregate	15	Electricity	5.068930343	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	15	Natural Gas	98.16259212	0.00449178	0.440924795
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Gasoline	122.1233391	0.001920008	0.234477745
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Diesel	147.9455374	0.058284493	8.622930625
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Electricity	2.25565699	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Gasoline	226.7136449	0.002925573	0.663267253
San Bernardino (SC)	2025	MHDT	Aggregate	15	Diesel	1998.933367	0.014926739	29.83755763
San Bernardino (SC)	2025	MHDT	Aggregate	15	Electricity	20.76597946	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Natural Gas	27.21506117	0.00268969	0.073200084
San Bernardino (SC)	2025	HHDT	Aggregate	45	Gasoline	11.74333549	0.002579401	0.030290771
San Bernardino (SC)	2025	HHDT	Aggregate	45	Diesel	85279.568	0.012955765	1104.862059
San Bernardino (SC)	2025	HHDT	Aggregate	45	Electricity	552.666234	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	45	Natural Gas	10078.39503	0.001570649	15.82962225
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Gasoline	8072.91279	0.000766451	6.187492893
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Diesel	12401.25183	0.02092055	259.4410083
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Electricity	173.4265238	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Gasoline	6637.641985	0.000776126	5.151644453
San Bernardino (SC)	2025	MHDT	Aggregate	45	Diesel	59373.88351	0.006265301	371.9952742
San Bernardino (SC)	2025	MHDT	Aggregate	45	Electricity	617.9940825	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Natural Gas	846.3436864	0.000670451	0.56743192
San Bernardino (SC)	2025	HHDT	Aggregate	50	Gasoline	10.91062341	0.002545999	0.027778441
San Bernardino (SC)	2025	HHDT	Aggregate	50	Diesel	76946.16855	0.01673425	1287.636408
San Bernardino (SC)	2025	HHDT	Aggregate	50	Electricity	510.0786397	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	50	Natural Gas	9815.345123	0.001607204	15.77526525
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Gasoline	6544.063868	0.000773933	5.064664436
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Diesel	9469.302452	0.019046883	180.3606935
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Electricity	135.1710724	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Gasoline	5225.043967	0.000749922	3.918376752
San Bernardino (SC)	2025	MHDT	Aggregate	50	Diesel	47929.23776	0.007291948	349.4974905
San Bernardino (SC)	2025	MHDT	Aggregate	50	Electricity	496.5711073	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Natural Gas	673.6276848	0.000611104	0.411656728
San Bernardino (SC)	2025	HHDT	Aggregate	55	Gasoline	11.31428545	0.002638565	0.029853475
San Bernardino (SC)	2025	HHDT	Aggregate	55	Diesel	81110.40296	0.021449294	1739.760917
San Bernardino (SC)	2025	HHDT	Aggregate	55	Electricity	536.7421379	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	55	Natural Gas	10229.92816	0.001775088	18.15902271
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Gasoline	5690.782566	0.000821568	4.675366903
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Diesel	7920.61072	0.018345198	145.3051743
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Electricity	114.6333779	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Gasoline	4746.274955	0.000764279	3.627479682
San Bernardino (SC)	2025	MHDT	Aggregate	55	Diesel	43669.60615	0.008889251	388.1900965
San Bernardino (SC)	2025	MHDT	Aggregate	55	Electricity	452.3652397	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Natural Gas	615.5515728	0.000634302	0.39044535
San Bernardino (SC)	2025	HHDT	Aggregate	25	Gasoline	2.473517863	0.004446662	0.010998897
San Bernardino (SC)	2025	HHDT	Aggregate	25	Diesel	21903.60147	0.006680618	146.3295862
San Bernardino (SC)	2025	HHDT	Aggregate	25	Electricity	136.5701971	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	25	Natural Gas	2167.847246	0.002800501	6.071058323
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Gasoline	2828.981097	0.001209778	3.422438251
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Diesel	4989.856493	0.040400759	201.5939915
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Electricity	66.74866867	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Gasoline	2809.850259	0.001518166	4.265819058
San Bernardino (SC)	2025	MHDT	Aggregate	25	Diesel	24478.92669	0.007569371	185.2900726
San Bernardino (SC)	2025	MHDT	Aggregate	25	Electricity	256.0057025	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Natural Gas	353.6880205	0.00171221	0.605588215

Model Output: OFFROAD2021 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2026
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Ye	Vehicle Category	Model Year	Horsepowe	Fuel	HC_tpd	ROG_tpd	PM10_tpd	Fuel Consumptio	Total_Activi	Total_Population	Horsepower_Hours_hhpy
San Bernardino (SC)	2026	Industrial - Forklifts	Aggregate	100	Diesel	0.003191259	0.003861423	0.001755636	268501.956	313883.31	399.4763952	25865233.48

	g/hph			g/hph
	HC	ROG	PM10	Fuel_gphr
2024	0.040854654	0.049434132	0.022475735	3437375.338

HP	89
Hours per Day	12
Days per Year	365
1 pound =	453.5924 grams

Emissions Source	PM10 lbs/day	PM10	PM10 tons/yr
1 Forklift	0.05	0.05	0.0097

Based on emission rates obtained from CARB OFFROAD Version 1.0.3.
Number of forklifts per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

Emergency Backup Generator Emissions

	Fuel Type	Quantity	HP	LF	Hours/Year per Unit	Hours per Day	HP-hr per day	Total hp-hr per year
Standard Generator	Diesel	1	750	0.74	50	1	750	37,500

	PM_{10}
Emissions Rates (g/hp-hr)	0.15
Pounds/Day	0.25
Tons/Year	0.01
Metric tons/year	

Source: Emissions rates from CalEEMod Guide Appenix D, Table 12.1

Model Output: OFFROAD2021 (v1.0.3) Emissions Inventory
Region Type: Sub-Area
Region: Orange (SC)
Calendar Year: 2026
Scenario: All Adopted Rules - Exhaust
Vehicle Classification: OFFROAD2021 Equipment Types
Units: tons/day for Emissions, gallons/year for Fuel, hours/year for Activity, Horsepower-hours/year for Horsepower-hours

Region	Calendar Y	Vehicle Category	Model Year	Horsepower B	Fuel	PM10_tpd	Fuel Consumption	Total_Activity_hpy	Total_Population	Horsepower_Hours_hhpy
Orange (SC)	2026	Airport Ground Support - Cargo Loader	Aggregate	Aggregate	Diesel	5.74788E-05	19599.56758	9648.696289	20.1215724	1130203.838
Orange (SC)	2026	Airport Ground Support - Cargo Tractor	Aggregate	Aggregate	Diesel	9.52695E-05	15992.07434	9065.734341	13.34264694	852978.5119
Orange (SC)	2026	Airport Ground Support - Misc - Cargo Tractor	Aggregate	Aggregate	Gasoline	0.000381642	235592.9	45621.35	33.74	4334028.25

	PM10	Fuel_gphr
2023	0.016840194	5742296.562
	0.036983813	6208155.912
	0.029158141	17999745.57

	PM10	Fuel_gphr
2023	0.338851179	115544036
	0.493461965	82833232.49
	0.983795685	607311415.5
	1.816108828	805688684.1
	0.027023732	11988662.2

Project Yard Trucks 1

HP 190
Hours per Day 12
Days per Year 365
1 pound = 453.5924 grams

	PM10 lbs/day	PM10 tons/yr
1	0.08	0.015

Based on aggregated emission rates obtained from CARB OFFROAD Version 1.0.1.
Number of yard trucks/hostlers per SCAQMD High Cube Warehouse Truck Trip Study White Paper Summary of Business Survey Results, June 2014.

PHASE 1 CONSTRUCTION

Unmitigated	
Onsite	Offsite
1.15E-02	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	0.10573	0.04787	1.21E-03	7.17E-06	1.22E-03
2	1	439943.4	3761716.33	439943.36, 3761716.33	2.00117	0.0766	2.30E-02	1.15E-05	2.30E-02
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	0.04393	0.04232	5.04E-04	6.34E-06	5.10E-04
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	0.04761	0.04496	5.46E-04	6.73E-06	5.53E-04
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	0.05215	0.04816	5.98E-04	7.21E-06	6.06E-04
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	0.05753	0.05154	6.60E-04	7.72E-06	6.68E-04
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	0.0642	0.05544	7.37E-04	8.30E-06	7.45E-04
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	0.07266	0.05998	8.34E-04	8.98E-06	8.43E-04
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	0.08357	0.06521	9.59E-04	9.77E-06	9.69E-04
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	0.09781	0.07085	1.12E-03	1.06E-05	1.13E-03
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	0.11721	0.07716	1.34E-03	1.16E-05	1.36E-03
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	0.14451	0.08392	1.66E-03	1.26E-05	1.67E-03
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	0.18537	0.09132	2.13E-03	1.37E-05	2.14E-03
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	0.25217	0.09999	2.89E-03	1.50E-05	2.91E-03
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	0.37561	0.10997	4.31E-03	1.65E-05	4.33E-03
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	0.66351	0.12095	7.61E-03	1.81E-05	7.63E-03
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	1.83335	0.1328	2.10E-02	1.99E-05	2.11E-02
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	0.04258	0.04024	4.88E-04	6.03E-06	4.95E-04
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	0.04612	0.04262	5.29E-04	6.38E-06	5.35E-04
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	0.0505	0.0455	5.79E-04	6.81E-06	5.86E-04
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	0.05563	0.04841	6.38E-04	7.25E-06	6.45E-04
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	0.06205	0.0518	7.12E-04	7.76E-06	7.20E-04
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	0.07021	0.05571	8.05E-04	8.34E-06	8.14E-04
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	0.08051	0.05967	9.24E-04	8.94E-06	9.33E-04
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	0.09418	0.0641	1.08E-03	9.60E-06	1.09E-03
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	0.11313	0.06932	1.30E-03	1.04E-05	1.31E-03
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	0.14001	0.07481	1.61E-03	1.12E-05	1.62E-03
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	0.18018	0.08032	2.07E-03	1.20E-05	2.08E-03
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	0.24622	0.08659	2.82E-03	1.30E-05	2.84E-03
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	0.36866	0.09348	4.23E-03	1.40E-05	4.24E-03
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	0.65463	0.1008	7.51E-03	1.51E-05	7.53E-03
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	1.81448	0.10844	2.08E-02	1.62E-05	2.08E-02
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	0.04116	0.03824	4.72E-04	5.73E-06	4.78E-04
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	0.04457	0.04041	5.11E-04	6.05E-06	5.17E-04
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	0.04875	0.04297	5.59E-04	6.43E-06	5.66E-04
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	0.05358	0.04541	6.15E-04	6.80E-06	6.21E-04
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	0.05972	0.04835	6.85E-04	7.24E-06	6.92E-04
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	0.06753	0.05167	7.75E-04	7.74E-06	7.82E-04
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	0.07732	0.05488	8.87E-04	8.22E-06	8.95E-04
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	0.09044	0.05849	1.04E-03	8.76E-06	1.05E-03
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	0.10855	0.06248	1.25E-03	9.36E-06	1.25E-03
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	0.13458	0.06685	1.54E-03	1.00E-05	1.55E-03
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	0.17369	0.07081	1.99E-03	1.06E-05	2.00E-03
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	0.23808	0.0749	2.73E-03	1.12E-05	2.74E-03
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	0.35867	0.07956	4.11E-03	1.19E-05	4.13E-03
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	0.64257	0.08475	7.37E-03	1.27E-05	7.38E-03
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	1.79239	0.09014	2.06E-02	1.35E-05	2.06E-02
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	0.03967	0.03628	4.55E-04	5.43E-06	4.61E-04
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	0.04291	0.03825	4.92E-04	5.73E-06	4.98E-04
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	0.04683	0.04047	5.37E-04	6.06E-06	5.43E-04
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	0.05147	0.04271	5.90E-04	6.40E-06	5.97E-04
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	0.05724	0.04518	6.57E-04	6.77E-06	6.63E-04
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	0.06449	0.04781	7.40E-04	7.16E-06	7.47E-04
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	0.07372	0.05041	8.46E-04	7.55E-06	8.53E-04
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	0.08614	0.05334	9.88E-04	7.99E-06	9.96E-04
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	0.10332	0.05651	1.19E-03	8.46E-06	1.19E-03
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	0.12811	0.05989	1.47E-03	8.97E-06	1.48E-03
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	0.16577	0.06299	1.90E-03	9.43E-06	1.91E-03
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	0.2282	0.06588	2.62E-03	9.87E-06	2.63E-03
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	0.34645	0.06898	3.97E-03	1.03E-05	3.98E-03
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	0.62695	0.07225	7.19E-03	1.08E-05	7.20E-03

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	1.3E-07	4.0E-07	0.0E+00	0.0E+00	0.0E+00	5.3E-07
8.0E-06	2.4E-05	1.9E-05	1.6E-05	7.4E-06	3.1E-07	7.5E-06	0.0E+00	0.0E+00	0.0E+00	7.9E-06
1.8E-07	5.3E-07	4.2E-07	3.6E-07	1.6E-07	6.9E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	7.5E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	8.2E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.1E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.6E-07	7.8E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
2.9E-07	8.8E-07	7.0E-07	6.0E-07	2.7E-07	1.1E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
3.4E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	1.3E-08	3.2E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
3.9E-07	1.2E-06	9.4E-07	8.1E-07	3.6E-07	1.5E-08	3.7E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
4.7E-07	1.4E-06	1.1E-06	9.7E-07	4.4E-07	1.8E-08	4.5E-07	0.0E+00	0.0E+00	0.0E+00	4.6E-07
5.8E-07	1.7E-06	1.4E-06	1.2E-06	5.4E-07	2.3E-08	5.5E-07	0.0E+00	0.0E+00	0.0E+00	5.7E-07
7.4E-07	2.2E-06	1.8E-06	1.5E-06	6.9E-07	2.9E-08	7.0E-07	0.0E+00	0.0E+00	0.0E+00	7.3E-07
1.0E-06	3.0E-06	2.4E-06	2.1E-06	9.3E-07	4.0E-08	9.6E-07	0.0E+00	0.0E+00	0.0E+00	9.9E-07
1.5E-06	4.5E-06	3.6E-06	3.1E-06	1.4E-06	5.9E-08	1.4E-06	0.0E+00	0.0E+00	0.0E+00	1.5E-06
2.6E-06	8.0E-06	6.3E-06	5.5E-06	2.5E-06	1.0E-07	2.5E-06	0.0E+00	0.0E+00	0.0E+00	2.6E-06
7.3E-06	2.2E-05	1.7E-05	1.5E-05	6.8E-06	2.9E-07	6.9E-06	0.0E+00	0.0E+00	0.0E+00	7.2E-06
1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	6.7E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
1.9E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	7.3E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
2.0E-07	6.1E-07	4.8E-07	4.2E-07	1.9E-07	8.0E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	8.8E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
2.5E-07	7.5E-07	5.9E-07	5.1E-07	2.3E-07	9.8E-09	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
3.2E-07	9.7E-07	7.7E-07	6.7E-07	3.0E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
3.8E-07	1.1E-06	9.0E-07	7.8E-07	3.5E-07	1.5E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
4.5E-07	1.4E-06	1.1E-06	9.3E-07	4.2E-07	1.8E-08	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.5E-07
5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	2.2E-08	5.3E-07	0.0E+00	0.0E+00	0.0E+00	5.5E-07
7.2E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	2.8E-08	6.8E-07	0.0E+00	0.0E+00	0.0E+00	7.1E-07
9.8E-07	3.0E-06	2.3E-06	2.0E-06	9.1E-07	3.9E-08	9.3E-07	0.0E+00	0.0E+00	0.0E+00	9.7E-07
1.5E-06	4.4E-06	3.5E-06	3.0E-06	1.4E-06	5.8E-08	1.4E-06	0.0E+00	0.0E+00	0.0E+00	1.5E-06
2.6E-06	7.9E-06	6.2E-06	5.4E-06	2.4E-06	1.0E-07	2.5E-06	0.0E+00	0.0E+00	0.0E+00	2.6E-06
7.2E-06	2.2E-05	1.7E-05	1.5E-05	6.7E-06	2.8E-07	6.8E-06	0.0E+00	0.0E+00	0.0E+00	7.1E-06
1.7E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	6.5E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	7.0E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
2.0E-07	5.9E-07	4.7E-07	4.0E-07	1.8E-07	7.7E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
2.2E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	8.5E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	9.4E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
3.6E-07	1.1E-06	8.6E-07	7.5E-07	3.4E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.6E-07
4.3E-07	1.3E-06	1.0E-06	9.0E-07	4.0E-07	1.7E-08	4.1E-07	0.0E+00	0.0E+00	0.0E+00	4.3E-07
5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	2.1E-08	5.1E-07	0.0E+00	0.0E+00	0.0E+00	5.3E-07
6.9E-07	2.1E-06	1.7E-06	1.4E-06	6.4E-07	2.7E-08	6.6E-07	0.0E+00	0.0E+00	0.0E+00	6.9E-07
9.5E-07	2.9E-06	2.3E-06	2.0E-06	8.8E-07	3.7E-08	9.0E-07	0.0E+00	0.0E+00	0.0E+00	9.4E-07
1.4E-06	4.3E-06	3.4E-06	2.9E-06	1.3E-06	5.6E-08	1.4E-06	0.0E+00	0.0E+00	0.0E+00	1.4E-06
2.6E-06	7.7E-06	6.1E-06	5.3E-06	2.4E-06	1.0E-07	2.4E-06	0.0E+00	0.0E+00	0.0E+00	2.5E-06
7.1E-06	2.2E-05	1.7E-05	1.5E-05	6.6E-06	2.8E-07	6.8E-06	0.0E+00	0.0E+00	0.0E+00	7.0E-06
1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	6.3E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	6.8E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.7E-07	7.4E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
2.1E-07	6.2E-07	4.9E-07	4.3E-07	1.9E-07	8.1E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
2.3E-07	6.9E-07	5.5E-07	4.7E-07	2.1E-07	9.0E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.6E-07	7.8E-07	6.2E-07	5.3E-07	2.4E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
3.0E-07	8.9E-07	7.0E-07	6.1E-07	2.7E-07	1.2E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
4.1E-07	1.2E-06	9.9E-07	8.5E-07	3.8E-07	1.6E-08	3.9E-07	0.0E+00	0.0E+00	0.0E+00	4.1E-07
5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.8E-07	2.0E-08	4.9E-07	0.0E+00	0.0E+00	0.0E+00	5.1E-07
6.6E-07	2.0E-06	1.6E-06	1.4E-06	6.1E-07	2.6E-08	6.3E-07	0.0E+00	0.0E+00	0.0E+00	6.5E-07
9.1E-07	2.7E-06	2.2E-06	1.9E-06	8.4E-07	3.6E-08	8.6E-07	0.0E+00	0.0E+00	0.0E+00	9.0E-07
1.4E-06	4.2E-06	3.3E-06	2.8E-06	1.3E-06	5.4E-08	1.3E-06	0.0E+00	0.0E+00	0.0E+00	1.4E-06
2.5E-06	7.5E-06	5.9E-06	5.1E-06	2.3E-06	9.8E-08	2.4E-06	0.0E+00	0.0E+00	0.0E+00	2.5E-06

PHASE 1 CONSTRUCTION

Unmitigated	
Onsite	Offsite
1.15E-02	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	1.76604	0.07575	2.03E-02	1.13E-05	2.03E-02
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	0.03807	0.03433	4.37E-04	5.14E-06	4.42E-04
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	0.04097	0.03579	4.70E-04	5.36E-06	4.75E-04
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	0.04459	0.03765	5.12E-04	5.64E-06	5.17E-04
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	0.04899	0.03975	5.62E-04	5.95E-06	5.68E-04
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	0.05447	0.04204	6.25E-04	6.30E-06	6.31E-04
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	0.06106	0.04399	7.01E-04	6.59E-06	7.07E-04
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	0.0696	0.04606	7.98E-04	6.90E-06	8.05E-04
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	0.081	0.04827	9.29E-04	7.23E-06	9.36E-04
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	0.09717	0.05107	1.11E-03	7.65E-06	1.12E-03
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	0.12016	0.05351	1.38E-03	8.01E-06	1.39E-03
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	0.15562	0.05602	1.79E-03	8.39E-06	1.79E-03
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	0.21489	0.05809	2.47E-03	8.70E-06	2.47E-03
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	0.32829	0.05963	3.77E-03	8.93E-06	3.78E-03
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	0.60357	0.06205	6.92E-03	9.29E-06	6.93E-03
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	1.73131	0.06472	1.99E-02	9.69E-06	1.99E-02
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	0.03643	0.03244	4.18E-04	4.86E-06	4.23E-04
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	0.03913	0.03374	4.49E-04	5.05E-06	4.54E-04
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	0.04256	0.03558	4.88E-04	5.33E-06	4.94E-04
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	0.04656	0.03727	5.34E-04	5.58E-06	5.40E-04
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	0.05155	0.03919	5.91E-04	5.87E-06	5.97E-04
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	0.05758	0.04082	6.61E-04	6.11E-06	6.67E-04
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	0.06532	0.04245	7.49E-04	6.36E-06	7.56E-04
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	0.07565	0.04416	8.68E-04	6.61E-06	8.75E-04
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	0.09014	0.04623	1.03E-03	6.92E-06	1.04E-03
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	0.11109	0.04837	1.27E-03	7.24E-06	1.28E-03
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	0.14309	0.05013	1.64E-03	7.51E-06	1.65E-03
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	0.19723	0.05164	2.26E-03	7.73E-06	2.27E-03
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	0.3023	0.05246	3.47E-03	7.86E-06	3.48E-03
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	0.56552	0.05422	6.49E-03	8.12E-06	6.50E-03
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	1.67593	0.05623	1.92E-02	8.42E-06	1.92E-02
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	0.03475	0.03062	3.99E-04	4.59E-06	4.03E-04
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	0.03726	0.03181	4.27E-04	4.76E-06	4.32E-04
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	0.04038	0.03346	4.63E-04	5.01E-06	4.68E-04
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	0.04388	0.03469	5.03E-04	5.19E-06	5.09E-04
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	0.04833	0.03624	5.54E-04	5.43E-06	5.60E-04
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	0.05364	0.03744	6.15E-04	5.61E-06	6.21E-04
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	0.06048	0.03871	6.94E-04	5.80E-06	7.00E-04
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	0.0698	0.04045	8.01E-04	6.06E-06	8.07E-04
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	0.08243	0.04208	9.46E-04	6.30E-06	9.52E-04
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	0.10055	0.04377	1.15E-03	6.55E-06	1.16E-03
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	0.12788	0.04482	1.47E-03	6.71E-06	1.47E-03
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	0.17421	0.04612	2.00E-03	6.91E-06	2.01E-03
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	0.26432	0.04689	3.03E-03	7.02E-06	3.04E-03
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	0.49599	0.04817	5.69E-03	7.21E-06	5.70E-03
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	1.54651	0.04966	1.77E-02	7.44E-06	1.77E-02
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	0.03307	0.02888	3.79E-04	4.32E-06	3.84E-04
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	0.03533	0.02995	4.05E-04	4.49E-06	4.10E-04
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	0.03814	0.03141	4.38E-04	4.70E-06	4.42E-04
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	0.04132	0.03256	4.74E-04	4.88E-06	4.79E-04
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	0.04513	0.03367	5.18E-04	5.04E-06	5.23E-04
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	0.04985	0.03482	5.72E-04	5.21E-06	5.77E-04
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	0.05575	0.03581	6.40E-04	5.36E-06	6.45E-04
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	0.06365	0.0372	7.30E-04	5.57E-06	7.36E-04
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	0.07413	0.03834	8.50E-04	5.74E-06	8.56E-04
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	0.08891	0.03961	1.02E-03	5.93E-06	1.03E-03
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	0.1107	0.04049	1.27E-03	6.06E-06	1.28E-03
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	0.14608	0.04132	1.68E-03	6.19E-06	1.68E-03
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	0.21194	0.04212	2.43E-03	6.31E-06	2.44E-03
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	0.37185	0.04315	4.27E-03	6.46E-06	4.27E-03
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	1.09073	0.04438	1.25E-02	6.65E-06	1.25E-02

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
7.0E-06	2.1E-05	1.7E-05	1.4E-05	6.5E-06	2.8E-07	6.7E-06	0.0E+00	0.0E+00	0.0E+00	6.9E-06
1.5E-07	4.6E-07	3.6E-07	3.2E-07	1.4E-07	6.0E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
1.6E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	6.5E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	7.0E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
2.0E-07	5.9E-07	4.7E-07	4.1E-07	1.8E-07	7.7E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	8.6E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
2.4E-07	7.4E-07	5.8E-07	5.1E-07	2.3E-07	9.6E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
2.8E-07	8.4E-07	6.6E-07	5.8E-07	2.6E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
3.2E-07	9.8E-07	7.7E-07	6.7E-07	3.0E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
3.9E-07	1.2E-06	9.3E-07	8.0E-07	3.6E-07	1.5E-08	3.7E-07	0.0E+00	0.0E+00	0.0E+00	3.8E-07
4.8E-07	1.4E-06	1.1E-06	9.9E-07	4.5E-07	1.9E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.7E-07
6.2E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	2.4E-08	5.9E-07	0.0E+00	0.0E+00	0.0E+00	6.1E-07
8.6E-07	2.6E-06	2.0E-06	1.8E-06	7.9E-07	3.4E-08	8.1E-07	0.0E+00	0.0E+00	0.0E+00	8.5E-07
1.3E-06	3.9E-06	3.1E-06	2.7E-06	1.2E-06	5.1E-08	1.2E-06	0.0E+00	0.0E+00	0.0E+00	1.3E-06
2.4E-06	7.2E-06	5.7E-06	5.0E-06	2.2E-06	9.4E-08	2.3E-06	0.0E+00	0.0E+00	0.0E+00	2.4E-06
6.9E-06	2.1E-05	1.6E-05	1.4E-05	6.4E-06	2.7E-07	6.5E-06	0.0E+00	0.0E+00	0.0E+00	6.8E-06
1.5E-07	4.4E-07	3.5E-07	3.0E-07	1.4E-07	5.7E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.5E-07	6.2E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	6.7E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
1.9E-07	5.6E-07	4.5E-07	3.9E-07	1.7E-07	7.3E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
2.1E-07	6.2E-07	4.9E-07	4.3E-07	1.9E-07	8.1E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.1E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.6E-07	7.9E-07	6.2E-07	5.4E-07	2.4E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
3.6E-07	1.1E-06	8.6E-07	7.4E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.6E-07
4.4E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	1.7E-08	4.2E-07	0.0E+00	0.0E+00	0.0E+00	4.4E-07
5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	2.2E-08	5.4E-07	0.0E+00	0.0E+00	0.0E+00	5.6E-07
7.9E-07	2.4E-06	1.9E-06	1.6E-06	7.3E-07	3.1E-08	7.5E-07	0.0E+00	0.0E+00	0.0E+00	7.8E-07
1.2E-06	3.6E-06	2.9E-06	2.5E-06	1.1E-06	4.7E-08	1.1E-06	0.0E+00	0.0E+00	0.0E+00	1.2E-06
2.2E-06	6.8E-06	5.4E-06	4.6E-06	2.1E-06	8.8E-08	2.1E-06	0.0E+00	0.0E+00	0.0E+00	2.2E-06
6.7E-06	2.0E-05	1.6E-05	1.4E-05	6.2E-06	2.6E-07	6.3E-06	0.0E+00	0.0E+00	0.0E+00	6.6E-06
1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	5.5E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
1.5E-07	4.5E-07	3.6E-07	3.1E-07	1.4E-07	5.9E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
1.6E-07	4.9E-07	3.9E-07	3.3E-07	1.5E-07	6.4E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
1.8E-07	5.3E-07	4.2E-07	3.6E-07	1.6E-07	6.9E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
1.9E-07	5.9E-07	4.6E-07	4.0E-07	1.8E-07	7.6E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
2.1E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	8.4E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
2.4E-07	7.3E-07	5.8E-07	5.0E-07	2.2E-07	9.5E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
2.8E-07	8.4E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
3.3E-07	1.0E-06	7.9E-07	6.8E-07	3.1E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
4.0E-07	1.2E-06	9.6E-07	8.3E-07	3.7E-07	1.6E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.7E-07	2.0E-08	4.8E-07	0.0E+00	0.0E+00	0.0E+00	5.0E-07
6.9E-07	2.1E-06	1.7E-06	1.4E-06	6.4E-07	2.7E-08	6.6E-07	0.0E+00	0.0E+00	0.0E+00	6.9E-07
1.1E-06	3.2E-06	2.5E-06	2.2E-06	9.8E-07	4.1E-08	1.0E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-06
2.0E-06	6.0E-06	4.7E-06	4.1E-06	1.8E-06	7.7E-08	1.9E-06	0.0E+00	0.0E+00	0.0E+00	1.9E-06
6.1E-06	1.9E-05	1.5E-05	1.3E-05	5.7E-06	2.4E-07	5.8E-06	0.0E+00	0.0E+00	0.0E+00	6.1E-06
1.3E-07	4.0E-07	3.2E-07	2.7E-07	1.2E-07	5.2E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
1.4E-07	4.3E-07	3.4E-07	2.9E-07	1.3E-07	5.6E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
1.5E-07	4.6E-07	3.7E-07	3.2E-07	1.4E-07	6.0E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
1.7E-07	5.0E-07	4.0E-07	3.4E-07	1.5E-07	6.5E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
1.8E-07	5.5E-07	4.3E-07	3.7E-07	1.7E-07	7.1E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
2.0E-07	6.0E-07	4.8E-07	4.1E-07	1.9E-07	7.8E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	8.8E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
2.5E-07	7.7E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
3.0E-07	8.9E-07	7.1E-07	6.1E-07	2.8E-07	1.2E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
3.6E-07	1.1E-06	8.5E-07	7.3E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
4.4E-07	1.3E-06	1.1E-06	9.1E-07	4.1E-07	1.7E-08	4.2E-07	0.0E+00	0.0E+00	0.0E+00	4.4E-07
5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	2.3E-08	5.5E-07	0.0E+00	0.0E+00	0.0E+00	5.8E-07
8.4E-07	2.5E-06	2.0E-06	1.7E-06	7.8E-07	3.3E-08	8.0E-07	0.0E+00	0.0E+00	0.0E+00	8.3E-07
1.5E-06	4.5E-06	3.5E-06	3.1E-06	1.4E-06	5.8E-08	1.4E-06	0.0E+00	0.0E+00	0.0E+00	1.5E-06
4.3E-06	1.3E-05	1.0E-05	8.9E-06	4.0E-06	1.7E-07	4.1E-06	0.0E+00	0.0E+00	0.0E+00	4.3E-06

PHASE 1 CONSTRUCTION

Unmitigated	
Onsite	Offsite
1.15E-02	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	0.05088	0.05221	5.84E-04	7.82E-06	5.92E-04
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	0.0556	0.05656	6.38E-04	8.47E-06	6.46E-04
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	0.06131	0.06171	7.03E-04	9.24E-06	7.13E-04
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	0.06845	0.06813	7.85E-04	1.02E-05	7.95E-04
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	0.07699	0.07521	8.83E-04	1.13E-05	8.95E-04
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	0.0877	0.08349	1.01E-03	1.25E-05	1.02E-03
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	0.1017	0.09376	1.17E-03	1.40E-05	1.18E-03
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	0.12007	0.1059	1.38E-03	1.59E-05	1.39E-03
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	0.04974	0.05002	5.71E-04	7.49E-06	5.78E-04
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	0.05438	0.05409	6.24E-04	8.10E-06	6.32E-04
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	0.05989	0.05865	6.87E-04	8.78E-06	6.96E-04
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	0.06673	0.06414	7.66E-04	9.60E-06	7.75E-04
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	0.07518	0.07051	8.63E-04	1.06E-05	8.73E-04
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	0.0857	0.07777	9.83E-04	1.16E-05	9.95E-04
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	0.09952	0.0866	1.14E-03	1.30E-05	1.15E-03
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	0.11774	0.09691	1.35E-03	1.45E-05	1.37E-03
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	0.04847	0.04771	5.56E-04	7.14E-06	5.63E-04
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	0.05295	0.05135	6.07E-04	7.69E-06	6.15E-04
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	0.05832	0.05545	6.69E-04	8.30E-06	6.77E-04
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	0.06486	0.06015	7.44E-04	9.01E-06	7.53E-04
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	0.0733	0.06602	8.41E-04	9.89E-06	8.51E-04
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	0.08361	0.07224	9.59E-04	1.08E-05	9.70E-04
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	0.09717	0.07972	1.11E-03	1.19E-05	1.13E-03
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	0.11505	0.08809	1.32E-03	1.32E-05	1.33E-03
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	0.04717	0.04549	5.41E-04	6.81E-06	5.48E-04
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	0.05144	0.04861	5.90E-04	7.28E-06	5.97E-04
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	0.05662	0.05221	6.50E-04	7.82E-06	6.57E-04
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	0.06295	0.05626	7.22E-04	8.42E-06	7.31E-04
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	0.07092	0.06105	8.14E-04	9.14E-06	8.23E-04
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	0.08107	0.06654	9.30E-04	9.96E-06	9.40E-04
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	0.09432	0.07281	1.08E-03	1.09E-05	1.09E-03
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	0.11192	0.07965	1.28E-03	1.19E-05	1.30E-03
155	UCART3	439196	3762392.48	439196.01, 3762392.48	0.05825	0.05959	6.68E-04	8.92E-06	6.77E-04
156	UCART3	439246	3762392.48	439246.01, 3762392.48	0.06385	0.06561	7.33E-04	9.83E-06	7.42E-04
157	UCART3	439296	3762392.48	439296.01, 3762392.48	0.0705	0.07275	8.09E-04	1.09E-05	8.20E-04
158	UCART3	439346	3762392.48	439346.01, 3762392.48	0.07846	0.08132	9.00E-04	1.22E-05	9.12E-04
159	UCART3	439396	3762392.48	439396.01, 3762392.48	0.08815	0.09176	1.01E-03	1.37E-05	1.03E-03
160	UCART3	439446	3762392.48	439446.01, 3762392.48	0.10019	0.10464	1.15E-03	1.57E-05	1.17E-03
161	UCART3	439496	3762392.48	439496.01, 3762392.48	0.11531	0.12082	1.32E-03	1.81E-05	1.34E-03
162	UCART3	439546	3762392.48	439546.01, 3762392.48	0.13493	0.14155	1.55E-03	2.12E-05	1.57E-03
163	UCART3	439196	3762442.48	439196.01, 3762442.48	0.05784	0.06026	6.64E-04	9.02E-06	6.73E-04
164	UCART3	439246	3762442.48	439246.01, 3762442.48	0.06339	0.06641	7.27E-04	9.94E-06	7.37E-04
165	UCART3	439296	3762442.48	439296.01, 3762442.48	0.06987	0.07372	8.02E-04	1.10E-05	8.13E-04
166	UCART3	439346	3762442.48	439346.01, 3762442.48	0.0777	0.08251	8.91E-04	1.24E-05	9.04E-04
167	UCART3	439396	3762442.48	439396.01, 3762442.48	0.08721	0.09322	1.00E-03	1.40E-05	1.01E-03
168	UCART3	439446	3762442.48	439446.01, 3762442.48	0.09896	0.10647	1.14E-03	1.59E-05	1.15E-03
169	UCART3	439496	3762442.48	439496.01, 3762442.48	0.11386	0.12311	1.31E-03	1.84E-05	1.32E-03
170	UCART3	439546	3762442.48	439546.01, 3762442.48	0.13327	0.14444	1.53E-03	2.16E-05	1.55E-03
171	UCART3	439196	3762492.48	439196.01, 3762492.48	0.05736	0.06063	6.58E-04	9.08E-06	6.67E-04
172	UCART3	439246	3762492.48	439246.01, 3762492.48	0.06287	0.06684	7.21E-04	1.00E-05	7.31E-04
173	UCART3	439296	3762492.48	439296.01, 3762492.48	0.06928	0.07423	7.95E-04	1.11E-05	8.06E-04
174	UCART3	439346	3762492.48	439346.01, 3762492.48	0.07695	0.08312	8.83E-04	1.24E-05	8.95E-04
175	UCART3	439396	3762492.48	439396.01, 3762492.48	0.08635	0.09397	9.91E-04	1.41E-05	1.00E-03
176	UCART3	439446	3762492.48	439446.01, 3762492.48	0.09798	0.10738	1.12E-03	1.61E-05	1.14E-03
177	UCART3	439496	3762492.48	439496.01, 3762492.48	0.11256	0.1242	1.29E-03	1.86E-05	1.31E-03
178	UCART3	439546	3762492.48	439546.01, 3762492.48	0.13163	0.14575	1.51E-03	2.18E-05	1.53E-03
179	UCART3	439196	3762542.48	439196.01, 3762542.48	0.05682	0.06067	6.52E-04	9.09E-06	6.61E-04
180	UCART3	439246	3762542.48	439246.01, 3762542.48	0.06227	0.06689	7.14E-04	1.00E-05	7.24E-04
181	UCART3	439296	3762542.48	439296.01, 3762542.48	0.06861	0.07428	7.87E-04	1.11E-05	7.98E-04
182	UCART3	439346	3762542.48	439346.01, 3762542.48	0.07625	0.08318	8.75E-04	1.25E-05	8.87E-04
183	UCART3	439396	3762542.48	439396.01, 3762542.48	0.08548	0.09401	9.81E-04	1.41E-05	9.95E-04

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
2.0E-07	6.2E-07	4.9E-07	4.2E-07	1.9E-07	8.0E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
2.2E-07	6.8E-07	5.3E-07	4.6E-07	2.1E-07	8.8E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
2.5E-07	7.4E-07	5.9E-07	5.1E-07	2.3E-07	9.7E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
2.8E-07	8.3E-07	6.6E-07	5.7E-07	2.6E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
3.1E-07	9.3E-07	7.4E-07	6.4E-07	2.9E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
3.5E-07	1.1E-06	8.4E-07	7.3E-07	3.3E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
4.1E-07	1.2E-06	9.7E-07	8.4E-07	3.8E-07	1.6E-08	3.9E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
4.8E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	1.9E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.8E-07
2.0E-07	6.0E-07	4.8E-07	4.1E-07	1.9E-07	7.9E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	8.6E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
2.4E-07	7.3E-07	5.7E-07	5.0E-07	2.2E-07	9.5E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
2.7E-07	8.1E-07	6.4E-07	5.5E-07	2.5E-07	1.1E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
4.0E-07	1.2E-06	9.5E-07	8.2E-07	3.7E-07	1.6E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
4.7E-07	1.4E-06	1.1E-06	9.8E-07	4.4E-07	1.9E-08	4.5E-07	0.0E+00	0.0E+00	0.0E+00	4.7E-07
1.9E-07	5.9E-07	4.6E-07	4.0E-07	1.8E-07	7.7E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
2.1E-07	6.4E-07	5.1E-07	4.4E-07	2.0E-07	8.4E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
2.3E-07	7.1E-07	5.6E-07	4.8E-07	2.2E-07	9.2E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.6E-07	7.9E-07	6.2E-07	5.4E-07	2.4E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
2.9E-07	8.9E-07	7.0E-07	6.1E-07	2.7E-07	1.2E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
3.4E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	1.3E-08	3.2E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
3.9E-07	1.2E-06	9.3E-07	8.0E-07	3.6E-07	1.5E-08	3.7E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
4.6E-07	1.4E-06	1.1E-06	9.5E-07	4.3E-07	1.8E-08	4.4E-07	0.0E+00	0.0E+00	0.0E+00	4.6E-07
1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.8E-07	7.5E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
2.1E-07	6.2E-07	4.9E-07	4.3E-07	1.9E-07	8.1E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
2.3E-07	6.9E-07	5.4E-07	4.7E-07	2.1E-07	8.9E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	9.9E-09	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
2.8E-07	8.6E-07	6.8E-07	5.9E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
3.3E-07	9.8E-07	7.8E-07	6.7E-07	3.0E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
3.8E-07	1.1E-06	9.0E-07	7.8E-07	3.5E-07	1.5E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
4.5E-07	1.4E-06	1.1E-06	9.3E-07	4.2E-07	1.8E-08	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.4E-07
2.3E-07	7.1E-07	5.6E-07	4.8E-07	2.2E-07	9.2E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.6E-07	7.8E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
2.8E-07	8.6E-07	6.8E-07	5.9E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
3.2E-07	9.5E-07	7.5E-07	6.5E-07	2.9E-07	1.2E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
3.5E-07	1.1E-06	8.5E-07	7.3E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
4.0E-07	1.2E-06	9.6E-07	8.3E-07	3.7E-07	1.6E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
4.6E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	1.8E-08	4.4E-07	0.0E+00	0.0E+00	0.0E+00	4.6E-07
5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	2.1E-08	5.2E-07	0.0E+00	0.0E+00	0.0E+00	5.4E-07
2.3E-07	7.0E-07	5.6E-07	4.8E-07	2.2E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.6E-07	7.7E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
3.1E-07	9.4E-07	7.5E-07	6.5E-07	2.9E-07	1.2E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
3.5E-07	1.1E-06	8.4E-07	7.2E-07	3.3E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
4.0E-07	1.2E-06	9.5E-07	8.2E-07	3.7E-07	1.6E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
4.6E-07	1.4E-06	1.1E-06	9.5E-07	4.3E-07	1.8E-08	4.4E-07	0.0E+00	0.0E+00	0.0E+00	4.5E-07
5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	2.1E-08	5.1E-07	0.0E+00	0.0E+00	0.0E+00	5.3E-07
2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.1E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	9.9E-09	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
2.8E-07	8.4E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
3.5E-07	1.1E-06	8.3E-07	7.2E-07	3.2E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
3.9E-07	1.2E-06	9.4E-07	8.1E-07	3.7E-07	1.6E-08	3.7E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
4.5E-07	1.4E-06	1.1E-06	9.4E-07	4.2E-07	1.8E-08	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.5E-07
5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	2.1E-08	5.0E-07	0.0E+00	0.0E+00	0.0E+00	5.2E-07
2.3E-07	6.9E-07	5.5E-07	4.7E-07	2.1E-07	9.0E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	9.9E-09	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
2.8E-07	8.3E-07	6.6E-07	5.7E-07	2.6E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
3.1E-07	9.3E-07	7.3E-07	6.3E-07	2.9E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07

PHASE 1 CONSTRUCTION

Unmitigated	
Onsite	Offsite
1.15E-02	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
184	UCART3	439446	3762542.48	439446.01, 3762542.48	0.09695	0.1074	1.11E-03	1.61E-05	1.13E-03	3.9E-07	1.2E-06	9.3E-07	8.1E-07	3.6E-07	1.5E-08	3.7E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
185	UCART3	439496	3762542.48	439496.01, 3762542.48	0.1113	0.12415	1.28E-03	1.86E-05	1.30E-03	4.5E-07	1.4E-06	1.1E-06	9.3E-07	4.2E-07	1.8E-08	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.4E-07
186	UCART3	439546	3762542.48	439546.01, 3762542.48	0.13023	0.14565	1.49E-03	2.18E-05	1.52E-03	5.2E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	2.1E-08	5.0E-07	0.0E+00	0.0E+00	0.0E+00	5.2E-07
187	UCART3	439196	3762592.48	439196.01, 3762592.48	0.0562	0.06038	6.45E-04	9.04E-06	6.54E-04	2.3E-07	6.8E-07	5.4E-07	4.7E-07	2.1E-07	8.9E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
188	UCART3	439246	3762592.48	439246.01, 3762592.48	0.06147	0.06653	7.05E-04	9.96E-06	7.15E-04	2.5E-07	7.5E-07	5.9E-07	5.1E-07	2.3E-07	9.7E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
189	UCART3	439296	3762592.48	439296.01, 3762592.48	0.06778	0.07385	7.78E-04	1.11E-05	7.89E-04	2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
190	UCART3	439346	3762592.48	439346.01, 3762592.48	0.07536	0.08265	8.65E-04	1.24E-05	8.77E-04	3.0E-07	9.2E-07	7.2E-07	6.3E-07	2.8E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
191	UCART3	439396	3762592.48	439396.01, 3762592.48	0.08454	0.09334	9.70E-04	1.40E-05	9.84E-04	3.4E-07	1.0E-06	8.1E-07	7.0E-07	3.2E-07	1.3E-08	3.2E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
192	UCART3	439446	3762592.48	439446.01, 3762592.48	0.09585	0.10652	1.10E-03	1.60E-05	1.12E-03	3.9E-07	1.2E-06	9.2E-07	8.0E-07	3.6E-07	1.5E-08	3.7E-07	0.0E+00	0.0E+00	0.0E+00	3.8E-07
193	UCART3	439496	3762592.48	439496.01, 3762592.48	0.11003	0.12298	1.26E-03	1.84E-05	1.28E-03	4.4E-07	1.3E-06	1.1E-06	9.1E-07	4.1E-07	1.7E-08	4.2E-07	0.0E+00	0.0E+00	0.0E+00	4.4E-07
194	UCART3	439546	3762592.48	439546.01, 3762592.48	0.12881	0.14409	1.48E-03	2.16E-05	1.50E-03	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.8E-07	2.0E-08	4.9E-07	0.0E+00	0.0E+00	0.0E+00	5.1E-07
195	UCART3	439196	3762642.48	439196.01, 3762642.48	0.05549	0.05977	6.37E-04	8.95E-06	6.46E-04	2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	8.8E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
196	UCART3	439246	3762642.48	439246.01, 3762642.48	0.06058	0.06578	6.95E-04	9.85E-06	7.05E-04	2.4E-07	7.4E-07	5.8E-07	5.0E-07	2.3E-07	9.6E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
197	UCART3	439296	3762642.48	439296.01, 3762642.48	0.06697	0.07296	7.68E-04	1.09E-05	7.79E-04	2.7E-07	8.1E-07	6.4E-07	5.6E-07	2.5E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
198	UCART3	439346	3762642.48	439346.01, 3762642.48	0.0745	0.08155	8.55E-04	1.22E-05	8.67E-04	3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	1.2E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
199	UCART3	439396	3762642.48	439396.01, 3762642.48	0.08352	0.09196	9.58E-04	1.38E-05	9.72E-04	3.4E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	1.3E-08	3.2E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
200	UCART3	439446	3762642.48	439446.01, 3762642.48	0.09469	0.10475	1.09E-03	1.57E-05	1.10E-03	3.8E-07	1.2E-06	9.1E-07	7.9E-07	3.5E-07	1.5E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.8E-07
201	UCART3	439496	3762642.48	439496.01, 3762642.48	0.10863	0.1207	1.25E-03	1.81E-05	1.26E-03	4.4E-07	1.3E-06	1.0E-06	9.0E-07	4.1E-07	1.7E-08	4.2E-07	0.0E+00	0.0E+00	0.0E+00	4.3E-07
202	UCART3	439546	3762642.48	439546.01, 3762642.48	0.1272	0.1411	1.46E-03	2.11E-05	1.48E-03	5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.8E-07	2.0E-08	4.9E-07	0.0E+00	0.0E+00	0.0E+00	5.1E-07
203	UCART3	439196	3762692.48	439196.01, 3762692.48	0.0546	0.05884	6.26E-04	8.81E-06	6.35E-04	2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	8.6E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
204	UCART3	439246	3762692.48	439246.01, 3762692.48	0.05974	0.06467	6.85E-04	9.68E-06	6.95E-04	2.4E-07	7.3E-07	5.7E-07	5.0E-07	2.2E-07	9.5E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
205	UCART3	439296	3762692.48	439296.01, 3762692.48	0.06576	0.07156	7.54E-04	1.07E-05	7.65E-04	2.6E-07	8.0E-07	6.3E-07	5.5E-07	2.5E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
206	UCART3	439346	3762692.48	439346.01, 3762692.48	0.07316	0.07983	8.39E-04	1.20E-05	8.51E-04	2.9E-07	8.9E-07	7.0E-07	6.1E-07	2.7E-07	1.2E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
207	UCART3	439396	3762692.48	439396.01, 3762692.48	0.08234	0.08986	9.45E-04	1.35E-05	9.58E-04	3.3E-07	1.0E-06	7.9E-07	6.8E-07	3.1E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
208	UCART3	439446	3762692.48	439446.01, 3762692.48	0.09339	0.1021	1.07E-03	1.53E-05	1.09E-03	3.8E-07	1.1E-06	9.0E-07	7.8E-07	3.5E-07	1.5E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
209	UCART3	439496	3762692.48	439496.01, 3762692.48	0.10715	0.11729	1.23E-03	1.76E-05	1.25E-03	4.3E-07	1.3E-06	1.0E-06	8.9E-07	4.0E-07	1.7E-08	4.1E-07	0.0E+00	0.0E+00	0.0E+00	4.3E-07
210	UCART3	439546	3762692.48	439546.01, 3762692.48	0.12552	0.13667	1.44E-03	2.05E-05	1.46E-03	5.1E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	2.0E-08	4.8E-07	0.0E+00	0.0E+00	0.0E+00	5.0E-07
211	UCART3	439196	3762742.48	439196.01, 3762742.48	0.05367	0.05759	6.16E-04	8.62E-06	6.24E-04	2.2E-07	6.5E-07	5.2E-07	4.5E-07	2.0E-07	8.5E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
212	UCART3	439246	3762742.48	439246.01, 3762742.48	0.05882	0.06321	6.75E-04	9.47E-06	6.84E-04	2.4E-07	7.2E-07	5.6E-07	4.9E-07	2.2E-07	9.3E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
213	UCART3	439296	3762742.48	439296.01, 3762742.48	0.06476	0.06977	7.43E-04	1.04E-05	7.53E-04	2.6E-07	7.9E-07	6.2E-07	5.4E-07	2.4E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
214	UCART3	439346	3762742.48	439346.01, 3762742.48	0.07201	0.07762	8.26E-04	1.16E-05	8.38E-04	2.9E-07	8.8E-07	6.9E-07	6.0E-07	2.7E-07	1.1E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
215	UCART3	439396	3762742.48	439396.01, 3762742.48	0.08086	0.08708	9.28E-04	1.30E-05	9.41E-04	3.3E-07	9.8E-07	7.8E-07	6.7E-07	3.0E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
216	UCART3	439446	3762742.48	439446.01, 3762742.48	0.09179	0.0986	1.05E-03	1.48E-05	1.07E-03	3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	1.5E-08	3.5E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
217	UCART3	439496	3762742.48	439496.01, 3762742.48	0.10538	0.11277	1.21E-03	1.69E-05	1.23E-03	4.2E-07	1.3E-06	1.0E-06	8.8E-07	3.9E-07	1.7E-08	4.0E-07	0.0E+00	0.0E+00	0.0E+00	4.2E-07
218	UCART3	439546	3762742.48	439546.01, 3762742.48	0.12366	0.13084	1.42E-03	1.96E-05	1.44E-03	5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	2.0E-08	4.7E-07	0.0E+00	0.0E+00	0.0E+00	4.9E-07
219	UCART3	439196	3762792.48	439196.01, 3762792.48	0.05261	0.05607	6.04E-04	8.40E-06	6.12E-04	2.1E-07	6.4E-07	5.1E-07	4.4E-07	2.0E-07	8.3E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
220	UCART3	439246	3762792.48	439246.01, 3762792.48	0.05787	0.06144	6.64E-04	9.20E-06	6.73E-04	2.3E-07	7.0E-07	5.6E-07	4.8E-07	2.2E-07	9.2E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
221	UCART3	439296	3762792.48	439296.01, 3762792.48	0.06359	0.06759	7.30E-04	1.01E-05	7.40E-04	2.6E-07	7.7E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
222	UCART3	439346	3762792.48	439346.01, 3762792.48	0.07062	0.0749	8.10E-04	1.12E-05	8.21E-04	2.8E-07	8.6E-07	6.8E-07	5.9E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
223	UCART3	439396	3762792.48	439396.01, 3762792.48	0.07927	0.08368	9.09E-04	1.25E-05	9.22E-04	3.2E-07	9.6E-07	7.6E-07	6.6E-07	3.0E-07	1.3E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
224	UCART3	439446	3762792.48	439446.01, 3762792.48	0.09016	0.09438	1.03E-03	1.41E-05	1.05E-03	3.6E-07	1.1E-06	8.7E-07	7.5E-07	3.4E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.6E-07
225	UCART3	439496	3762792.48	439496.01, 3762792.48	0.10365	0.10737	1.19E-03	1.61E-05	1.21E-03	4.2E-07	1.3E-06	1.0E-06	8.6E-07	3.9E-07	1.6E-08	4.0E-07	0.0E+00	0.0E+00	0.0E+00	4.1E-07
226	UCART3	439546	3762792.48	439546.01, 3762792.48	0.12174	0.12384	1.40E-03	1.85E-05	1.42E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	1.9E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.8E-07
227	UCART3	439196	3762842.48	439196.01, 3762842.48	0.05164	0.05434	5.92E-04	8.14E-06	6.01E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	8.2E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
228	UCART3	439246	3762842.48	439246.01, 3762842.48	0.05665	0.05937	6.50E-04	8.89E-06	6.59E-04	2.3E-07	6.9E-07	5.4E-07	4.7E-07	2.1E-07	9.0E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
229	UCART3	439296	3762842.48	439296.01, 3762842.48	0.06243	0.06513	7.16E-04	9.75E-06	7.26E-04	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	9.9E-09	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
230	UCART3	439346	3762842.48	439346.01, 3762842.48	0.06937	0.07189	7.96E-04	1.08E-05	8.07E-04	2.8E-07	8.4E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
231	UCART3	439396	3762842.48	439396.01, 3762842.48	0.07783	0.07992	8.93E-04	1.20E-05	9.05E-04	3.1E-07	9.5E-07	7.5E-07	6.5E-07	2.9E-07	1.2E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
232	UCART3	439446	3762842.48	439446.01, 3762842.48	0.08849	0.0896	1.02E-03	1.34E-05	1.03E-03	3.6E-07	1.1E-06	8.5E-07	7.3E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
233	UCART3	439496	3762842.48	439496.01, 3762842.48	0.1019	0.1012	1.17E-03	1.52E-05	1.18E-03	4.1E-07	1.2E-06	9.8E-07	8.5E-07	3.8E-07	1.6E-08	3.9E-07	0.0E+00	0.0E+00	0.0E+00	4.1E-07
234	UCART3	439546	3762842.48	439546.01, 3762842.48	0.11983	0.11578	1.37E-03	1.73E-05	1.39E-03	4.8E-07	1.5E-06	1.1E-06	9.9E-07	4.5E-07	1.9E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.8E-07
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	0.14565	0.1598	1.67E-03	2.39E-05	1.69E-03	5.9E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	2.3E-08	5.6E-07	0.0E+00	0.0E+00	0.0E+00	5.8E-07
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	0.17674	0.19277	2.03E-03	2.89E-05	2.06E-03	7.1E-07	2.1E-06	1.7E-06	1.5E-06	6.6E-07	2.8E-08	6.8E-07	0.0E+00	0.0E+00	0.0E+00	7.0E-07
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	0.22256	0.23797	2.55E-03	3.56E-05	2.59E-03	9.0E-07	2.7E-06	2.1E-06	1.8E-06	8.3E-07	3.5E-08	8.5E-07	0.0E+00	0.0E+00	0.0E+00	8.9E-07
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	0.29634	0.30255	3.40E-03	4.53E-05	3.45E-03	1.2E-06	3.6E-06	2.8E-06	2.5E-06	1.1E-06	4.7E-08	1.1E-06	0.0E+00	0.0E+00	0.0E+00	1.2E-06
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	0.43239	0.40033	4.96E-03	5.99E-05	5.02E-03	1.7E-06	5.2E-06	4.1E-06	3.6E-06	1.6E-06	6.8E-08	1.6E-06	0.0E+00	0.0E+00	0.0E+00	1.7E-06
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	0.75883	0.5639	8.71E-03	8.44E-05	8.79E-03	3.0E-06	9.2E-06	7.3E-06	6.3E-06	2.8E-06	1.2E-07	2.9E-06	0.0E+00	0.0E+00	0.0E+00	3.0E-06
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	2.22006	0.89698	2.55E-02	1.34E-04	2.56E-02	8.9E-06	2.7E-05	2.1E-05	1.8E-05	8.2E-06	3.5E-07	8.4E-06	0.0E+00	0.0E+00	0.0E+00	8.8E-06
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	0.14403	0.16036	1.65E-03	2.40E-05	1.68E-03	5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	2.3E-08	5.5E-07	0.0E+00	0.0E+00	0.0E+00	5.7E-07
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	0.17495	0.19343	2.01E-03	2.90E-05	2.04E-03	7.0E-07	2.1E-06	1.7E-06	1.5E-06	6.5E-07	2.8E-08	6.7E-07	0.0E+00	0.0E+00	0.0E+00	7.0E-07
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	0.22032	0.23865	2.53E-03	3.57E-05	2.56E-03	8.9E-07	2.7E-06	2.1E-06	1.8E-06	8.2E-07	3.5E-08	8.4E-07	0.0E+00	0.0E+00	0.0E+00	8.8E-07

PHASE 1 CONSTRUCTION

Unmitigated	
Onsite	Offsite
1.15E-02	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Total
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	0.29328	0.30312	3.41E-03
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	0.42861	0.40084	4.98E-03
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	0.75386	0.56454	8.73E-03
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	2.20117	0.89566	2.54E-02
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	0.14246	0.15925	1.66E-03
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	0.17307	0.19186	2.01E-03
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	0.21802	0.23646	2.54E-03
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	0.29066	0.30015	3.38E-03
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	0.42555	0.39664	4.94E-03
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	0.74878	0.55744	8.67E-03
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	2.1867	0.88012	2.52E-02
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	0.14082	0.15648	1.64E-03
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	0.17109	0.18815	1.99E-03
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	0.21604	0.23154	2.51E-03
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	0.2883	0.29344	3.35E-03
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	0.42274	0.38754	4.91E-03
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	0.74378	0.54409	8.61E-03
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	2.17025	0.85534	2.50E-02
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	0.13905	0.15207	1.62E-03
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	0.16874	0.18209	1.96E-03
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	0.21355	0.22352	2.48E-03
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	0.28564	0.28276	3.32E-03
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	0.41877	0.37272	4.86E-03
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	0.7384	0.52421	8.55E-03
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	2.14949	0.8291	2.48E-02
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	0.0398	0.02832	4.61E-04
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	0.04268	0.02939	4.94E-04
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	0.04605	0.03053	5.33E-04
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	0.04997	0.03171	5.78E-04
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	0.05464	0.03292	6.32E-04
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	0.06026	0.03415	6.96E-04
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	0.06717	0.03539	7.76E-04
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	0.07594	0.03663	8.77E-04
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	0.08732	0.03782	1.01E-03
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	0.04143	0.02949	4.80E-04
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	0.04461	0.0307	5.16E-04
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	0.04834	0.032	5.59E-04
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	0.05267	0.03329	6.09E-04
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	0.05786	0.03464	6.69E-04
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	0.0642	0.03602	7.42E-04
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	0.07211	0.03743	8.33E-04
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	0.08233	0.03889	9.50E-04
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	0.09586	0.0403	1.11E-03
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	0.04303	0.03071	4.98E-04
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	0.04647	0.03205	5.38E-04
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	0.0505	0.03347	5.84E-04
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	0.05525	0.03492	6.39E-04
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	0.06096	0.03643	7.05E-04
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	0.06802	0.03804	7.86E-04
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	0.0769	0.03968	8.88E-04
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	0.08842	0.04135	1.02E-03
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	0.10391	0.04304	1.20E-03
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	0.04457	0.03199	5.16E-04
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	0.04824	0.03345	5.58E-04
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	0.05258	0.03503	6.08E-04
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	0.05774	0.0367	6.68E-04
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	0.06394	0.03841	7.39E-04
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	0.07166	0.04026	8.28E-04
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	0.08142	0.04218	9.40E-04
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	0.09408	0.04411	1.09E-03
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	0.11121	0.04612	1.28E-03

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
1.2E-06	3.6E-06	2.8E-06	2.4E-06	1.1E-06	4.6E-08	1.1E-06	0.0E+00	0.0E+00	0.0E+00	1.2E-06
1.7E-06	5.2E-06	4.1E-06	3.6E-06	1.6E-06	6.8E-08	1.6E-06	0.0E+00	0.0E+00	0.0E+00	1.7E-06
3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.8E-06	1.2E-07	2.9E-06	0.0E+00	0.0E+00	0.0E+00	3.0E-06
8.8E-06	2.7E-05	2.1E-05	1.8E-05	8.2E-06	3.5E-07	8.3E-06	0.0E+00	0.0E+00	0.0E+00	8.7E-06
5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	2.3E-08	5.4E-07	0.0E+00	0.0E+00	0.0E+00	5.7E-07
7.0E-07	2.1E-06	1.7E-06	1.4E-06	6.5E-07	2.7E-08	6.6E-07	0.0E+00	0.0E+00	0.0E+00	6.9E-07
8.8E-07	2.7E-06	2.1E-06	1.8E-06	8.1E-07	3.4E-08	8.3E-07	0.0E+00	0.0E+00	0.0E+00	8.7E-07
1.2E-06	3.5E-06	2.8E-06	2.4E-06	1.1E-06	4.6E-08	1.1E-06	0.0E+00	0.0E+00	0.0E+00	1.2E-06
1.7E-06	5.2E-06	4.1E-06	3.5E-06	1.6E-06	6.7E-08	1.6E-06	0.0E+00	0.0E+00	0.0E+00	1.7E-06
3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.8E-06	1.2E-07	2.8E-06	0.0E+00	0.0E+00	0.0E+00	3.0E-06
8.7E-06	2.6E-05	2.1E-05	1.8E-05	8.1E-06	3.4E-07	8.3E-06	0.0E+00	0.0E+00	0.0E+00	8.6E-06
5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	2.2E-08	5.4E-07	0.0E+00	0.0E+00	0.0E+00	5.6E-07
6.9E-07	2.1E-06	1.6E-06	1.4E-06	6.4E-07	2.7E-08	6.5E-07	0.0E+00	0.0E+00	0.0E+00	6.8E-07
8.7E-07	2.6E-06	2.1E-06	1.8E-06	8.1E-07	3.4E-08	8.3E-07	0.0E+00	0.0E+00	0.0E+00	8.6E-07
1.2E-06	3.5E-06	2.8E-06	2.4E-06	1.1E-06	4.6E-08	1.1E-06	0.0E+00	0.0E+00	0.0E+00	1.1E-06
1.7E-06	5.1E-06	4.1E-06	3.5E-06	1.6E-06	6.7E-08	1.6E-06	0.0E+00	0.0E+00	0.0E+00	1.7E-06
3.0E-06	9.0E-06	7.1E-06	6.2E-06	2.8E-06	1.2E-07	2.8E-06	0.0E+00	0.0E+00	0.0E+00	2.9E-06
8.7E-06	2.6E-05	2.1E-05	1.8E-05	8.0E-06	3.4E-07	8.2E-06	0.0E+00	0.0E+00	0.0E+00	8.6E-06
5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	2.2E-08	5.3E-07	0.0E+00	0.0E+00	0.0E+00	5.5E-07
6.8E-07	2.1E-06	1.6E-06	1.4E-06	6.3E-07	2.7E-08	6.4E-07	0.0E+00	0.0E+00	0.0E+00	6.7E-07
8.6E-07	2.6E-06	2.1E-06	1.8E-06	8.0E-07	3.4E-08	8.2E-07	0.0E+00	0.0E+00	0.0E+00	8.5E-07
1.1E-06	3.5E-06	2.7E-06	2.4E-06	1.1E-06	4.5E-08	1.1E-06	0.0E+00	0.0E+00	0.0E+00	1.1E-06
1.7E-06	5.1E-06	4.0E-06	3.5E-06	1.6E-06	6.6E-08	1.6E-06	0.0E+00	0.0E+00	0.0E+00	1.7E-06
3.0E-06	8.9E-06	7.1E-06	6.1E-06	2.7E-06	1.2E-07	2.8E-06	0.0E+00	0.0E+00	0.0E+00	2.9E-06
8.6E-06	2.6E-05	2.0E-05	1.8E-05	8.0E-06	3.4E-07	8.1E-06	0.0E+00	0.0E+00	0.0E+00	8.5E-06
1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	6.3E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	6.7E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
1.8E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	7.2E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
2.0E-07	6.0E-07	4.8E-07	4.1E-07	1.9E-07	7.9E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	8.6E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
2.4E-07	7.3E-07	5.7E-07	5.0E-07	2.2E-07	9.5E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
2.7E-07	8.1E-07	6.4E-07	5.5E-07	2.5E-07	1.1E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
3.0E-07	9.2E-07	7.2E-07	6.3E-07	2.8E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
3.5E-07	1.1E-06	8.3E-07	7.2E-07	3.2E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
1.7E-07	5.0E-07	4.0E-07	3.4E-07	1.5E-07	6.5E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	7.0E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	7.6E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
2.1E-07	6.4E-07	5.0E-07	4.4E-07	2.0E-07	8.3E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.1E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.6E-07	7.8E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
2.9E-07	8.7E-07	6.9E-07	5.9E-07	2.7E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
3.3E-07	9.9E-07	7.8E-07	6.8E-07	3.1E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
3.8E-07	1.2E-06	9.1E-07	7.9E-07	3.6E-07	1.5E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.8E-07
1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	6.8E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
1.9E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	7.3E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
2.0E-07	6.1E-07	4.8E-07	4.2E-07	1.9E-07	7.9E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	8.7E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
2.4E-07	7.4E-07	5.8E-07	5.0E-07	2.3E-07	9.6E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
3.1E-07	9.3E-07	7.3E-07	6.3E-07	2.9E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
3.5E-07	1.1E-06	8.4E-07	7.3E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
4.1E-07	1.3E-06	9.9E-07	8.6E-07	3.9E-07	1.6E-08	3.9E-07	0.0E+00	0.0E+00	0.0E+00	4.1E-07
1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	7.0E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	7.6E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
2.1E-07	6.4E-07	5.0E-07	4.3E-07	2.0E-07	8.3E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.1E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
2.6E-07	7.7E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
2.9E-07	8.7E-07	6.8E-07	5.9E-07	2.7E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
3.3E-07	9.8E-07	7.8E-07	6.7E-07	3.0E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
3.8E-07	1.1E-06	9.0E-07	7.8E-07	3.5E-07	1.5E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
4.4E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	1.7E-08	4.2E-07	0.0E+00	0.0E+00	0.0E+00	4.4E-07

PHASE 1 CONSTRUCTION

Unmitigated	
Onsite	Offsite
1.15E-02	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	0.04603	0.03333	5.28E-04	4.99E-06	5.33E-04	1.8E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	7.2E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	0.04994	0.03496	5.73E-04	5.24E-06	5.78E-04	2.0E-07	6.0E-07	4.8E-07	4.1E-07	1.9E-07	7.9E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	0.05457	0.03672	6.26E-04	5.50E-06	6.32E-04	2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	8.6E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	0.0601	0.0386	6.89E-04	5.78E-06	6.95E-04	2.4E-07	7.3E-07	5.7E-07	5.0E-07	2.2E-07	9.5E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	0.06677	0.04057	7.66E-04	6.08E-06	7.72E-04	2.7E-07	8.1E-07	6.4E-07	5.5E-07	2.5E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	0.07506	0.04269	8.61E-04	6.39E-06	8.68E-04	3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	1.2E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	0.08555	0.0449	9.81E-04	6.72E-06	9.88E-04	3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	1.3E-08	3.2E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	0.09922	0.04722	1.14E-03	7.07E-06	1.15E-03	4.0E-07	1.2E-06	9.5E-07	8.2E-07	3.7E-07	1.6E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	0.11763	0.0496	1.35E-03	7.43E-06	1.36E-03	4.7E-07	1.4E-06	1.1E-06	9.7E-07	4.4E-07	1.8E-08	4.5E-07	0.0E+00	0.0E+00	0.0E+00	4.6E-07
315	UCART5	439152.4	3761698.92	439152.35, 3761698.92	0.04741	0.03473	5.44E-04	5.20E-06	5.49E-04	1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.8E-07	7.5E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
316	UCART5	439202.4	3761698.92	439202.35, 3761698.92	0.05154	0.03652	5.91E-04	5.47E-06	5.97E-04	2.1E-07	6.2E-07	4.9E-07	4.3E-07	1.9E-07	8.1E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
317	UCART5	439252.4	3761698.92	439252.35, 3761698.92	0.0564	0.03846	6.47E-04	5.76E-06	6.53E-04	2.3E-07	6.8E-07	5.4E-07	4.7E-07	2.1E-07	8.9E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
318	UCART5	439302.4	3761698.92	439302.35, 3761698.92	0.06225	0.04058	7.14E-04	6.08E-06	7.20E-04	2.5E-07	7.5E-07	5.9E-07	5.1E-07	2.3E-07	9.8E-09	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
319	UCART5	439352.4	3761698.92	439352.35, 3761698.92	0.06936	0.04287	7.96E-04	6.42E-06	8.02E-04	2.8E-07	8.4E-07	6.6E-07	5.7E-07	2.6E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
320	UCART5	439402.4	3761698.92	439402.35, 3761698.92	0.07816	0.04533	8.97E-04	6.79E-06	9.03E-04	3.1E-07	9.4E-07	7.5E-07	6.5E-07	2.9E-07	1.2E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	0.08923	0.04785	1.02E-03	7.17E-06	1.03E-03	3.6E-07	1.1E-06	8.5E-07	7.4E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	0.1037	0.05061	1.19E-03	7.58E-06	1.20E-03	4.1E-07	1.3E-06	9.9E-07	8.6E-07	3.8E-07	1.6E-08	3.9E-07	0.0E+00	0.0E+00	0.0E+00	4.1E-07
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	0.1231	0.05347	1.41E-03	8.01E-06	1.42E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	1.9E-08	4.7E-07	0.0E+00	0.0E+00	0.0E+00	4.9E-07
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	0.04869	0.03618	5.59E-04	5.42E-06	5.64E-04	2.0E-07	5.9E-07	4.7E-07	4.0E-07	1.8E-07	7.7E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	0.05302	0.03818	6.08E-04	5.72E-06	6.14E-04	2.1E-07	6.4E-07	5.1E-07	4.4E-07	2.0E-07	8.3E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	0.0581	0.04032	6.67E-04	6.04E-06	6.73E-04	2.3E-07	7.0E-07	5.6E-07	4.8E-07	2.2E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	0.06424	0.04271	7.37E-04	6.40E-06	7.43E-04	2.6E-07	7.8E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	0.07168	0.04529	8.22E-04	6.78E-06	8.29E-04	2.9E-07	8.7E-07	6.8E-07	5.9E-07	2.7E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	0.08088	0.04808	9.28E-04	7.20E-06	9.35E-04	3.2E-07	9.8E-07	7.7E-07	6.7E-07	3.0E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	0.09249	0.05106	1.06E-03	7.65E-06	1.07E-03	3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	1.5E-08	3.5E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	0.10753	0.05424	1.23E-03	8.12E-06	1.24E-03	4.3E-07	1.3E-06	1.0E-06	8.9E-07	4.0E-07	1.7E-08	4.1E-07	0.0E+00	0.0E+00	0.0E+00	4.2E-07
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	0.12773	0.05771	1.47E-03	8.64E-06	1.47E-03	5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.7E-07	2.0E-08	4.8E-07	0.0E+00	0.0E+00	0.0E+00	5.0E-07
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	0.04987	0.03769	5.72E-04	5.64E-06	5.78E-04	2.0E-07	6.0E-07	4.8E-07	4.1E-07	1.9E-07	7.9E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	0.05438	0.03991	6.24E-04	5.98E-06	6.30E-04	2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	8.6E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	0.05969	0.04232	6.85E-04	6.34E-06	6.91E-04	2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	9.4E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	0.06606	0.04501	7.58E-04	6.74E-06	7.65E-04	2.6E-07	8.0E-07	6.3E-07	5.5E-07	2.5E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	0.07377	0.04789	8.46E-04	7.17E-06	8.53E-04	3.0E-07	8.9E-07	7.0E-07	6.1E-07	2.7E-07	1.2E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	0.08332	0.05108	9.56E-04	7.65E-06	9.64E-04	3.3E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	1.3E-08	3.2E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	0.09538	0.05461	1.09E-03	8.18E-06	1.10E-03	3.8E-07	1.2E-06	9.1E-07	7.9E-07	3.5E-07	1.5E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.8E-07
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	0.1109	0.05833	1.27E-03	8.73E-06	1.28E-03	4.4E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	1.7E-08	4.2E-07	0.0E+00	0.0E+00	0.0E+00	4.4E-07
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	0.13169	0.0625	1.51E-03	9.36E-06	1.52E-03	5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	2.1E-08	5.0E-07	0.0E+00	0.0E+00	0.0E+00	5.2E-07
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	0.05093	0.03926	5.84E-04	5.88E-06	5.90E-04	2.0E-07	6.2E-07	4.9E-07	4.2E-07	1.9E-07	8.0E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	0.05559	0.04171	6.38E-04	6.25E-06	6.44E-04	2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	8.8E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	0.06108	0.04437	7.01E-04	6.64E-06	7.07E-04	2.4E-07	7.4E-07	5.8E-07	5.1E-07	2.3E-07	9.6E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	0.06766	0.04737	7.76E-04	7.09E-06	7.83E-04	2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	0.07561	0.05063	8.67E-04	7.58E-06	8.75E-04	3.0E-07	9.1E-07	7.2E-07	6.3E-07	2.8E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	0.08548	0.05436	9.81E-04	8.14E-06	9.89E-04	3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	1.3E-08	3.2E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	0.09786	0.05842	1.12E-03	8.75E-06	1.13E-03	3.9E-07	1.2E-06	9.3E-07	8.1E-07	3.6E-07	1.5E-08	3.7E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	0.11379	0.06282	1.31E-03	9.41E-06	1.31E-03	4.6E-07	1.4E-06	1.1E-06	9.4E-07	4.2E-07	1.8E-08	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.5E-07
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	0.13505	0.06784	1.55E-03	1.02E-05	1.56E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	2.1E-08	5.1E-07	0.0E+00	0.0E+00	0.0E+00	5.3E-07
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	0.05187	0.0409	5.95E-04	6.12E-06	6.01E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	8.2E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	0.05666	0.04358	6.50E-04	6.53E-06	6.57E-04	2.3E-07	6.9E-07	5.4E-07	4.7E-07	2.1E-07	8.9E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	0.0623	0.04654	7.15E-04	6.97E-06	7.22E-04	2.5E-07	7.5E-07	6.0E-07	5.2E-07	2.3E-07	9.8E-09	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	0.06906	0.04992	7.92E-04	7.48E-06	8.00E-04	2.8E-07	8.4E-07	6.6E-07	5.7E-07	2.6E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	0.07724	0.05365	8.86E-04	8.03E-06	8.94E-04	3.1E-07	9.3E-07	7.4E-07	6.4E-07	2.9E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	0.08732	0.05783	1.00E-03	8.66E-06	1.01E-03	3.5E-07	1.1E-06	8.3E-07	7.2E-07	3.2E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	0.09997	0.06261	1.15E-03	9.38E-06	1.16E-03	4.0E-07	1.2E-06	9.5E-07	8.3E-07	3.7E-07	1.6E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	0.11627	0.06792	1.33E-03	1.02E-05	1.34E-03	4.7E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	1.8E-08	4.4E-07	0.0E+00	0.0E+00	0.0E+00	4.6E-07
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	0.13785	0.07388	1.58E-03	1.11E-05	1.59E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	2.2E-08	5.2E-07	0.0E+00	0.0E+00	0.0E+00	5.4E-07
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	0.05267	0.04258	6.04E-04	6.38E-06	6.11E-04	2.1E-07	6.4E-07	5.0E-07	4.4E-07	2.0E-07	8.3E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	0.05757	0.04551	6.60E-04	6.82E-06	6.67E-04	2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.1E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	0.06333	0.04877	7.27E-04	7.30E-06	7.34E-04	2.5E-07	7.7E-07	6.1E-07	5.2E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	0.07023	0.05256	8.06E-04	7.87E-06	8.14E-04	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	0.07857	0.05679	9.01E-04	8.50E-06	9.10E-04	3.1E-07	9.5E-07	7.5E-07	6.5E-07	2.9E-07	1.2E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	0.08884	0.06155	1.02E-03	9.22E-06	1.03E-03	3.6E-07	1.1E-06	8.5E-07	7.3E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	0.10169	0.06708	1.17E-03	1.00E-05	1.18E-03	4.1E-07	1.2E-06	9.7E-07	8.4E-07	3.8E-07	1.6E-08	3.9E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07

PHASE 1 CONSTRUCTION

Unmitigated	
Onsite	Offsite
1.15E-02	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	0.1182	0.07336	1.36E-03	1.10E-05	1.37E-03	4.7E-07	1.4E-06	1.1E-06	9.8E-07	4.4E-07	1.9E-08	4.5E-07	0.0E+00	0.0E+00	0.0E+00	4.7E-07
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	0.14003	0.08054	1.61E-03	1.21E-05	1.62E-03	5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	2.2E-08	5.3E-07	0.0E+00	0.0E+00	0.0E+00	5.5E-07
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	0.05333	0.04428	6.12E-04	6.63E-06	6.18E-04	2.1E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	8.4E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	0.05831	0.04747	6.69E-04	7.11E-06	6.76E-04	2.3E-07	7.1E-07	5.6E-07	4.8E-07	2.2E-07	9.2E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	0.06416	0.05107	7.36E-04	7.65E-06	7.44E-04	2.6E-07	7.8E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	0.07116	0.05528	8.16E-04	8.28E-06	8.25E-04	2.9E-07	8.6E-07	6.8E-07	5.9E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	0.07961	0.06006	9.13E-04	8.99E-06	9.22E-04	3.2E-07	9.6E-07	7.6E-07	6.6E-07	3.0E-07	1.3E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	0.09003	0.06546	1.03E-03	9.80E-06	1.04E-03	3.6E-07	1.1E-06	8.6E-07	7.4E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.6E-07
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	0.10306	0.07178	1.18E-03	1.07E-05	1.19E-03	4.1E-07	1.2E-06	9.9E-07	8.5E-07	3.8E-07	1.6E-08	3.9E-07	0.0E+00	0.0E+00	0.0E+00	4.1E-07
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	0.11977	0.07912	1.37E-03	1.18E-05	1.39E-03	4.8E-07	1.4E-06	1.1E-06	9.9E-07	4.5E-07	1.9E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.7E-07
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	0.14183	0.08772	1.63E-03	1.31E-05	1.64E-03	5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	2.2E-08	5.4E-07	0.0E+00	0.0E+00	0.0E+00	5.6E-07
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	0.05385	0.04598	6.18E-04	6.89E-06	6.25E-04	2.2E-07	6.5E-07	5.2E-07	4.5E-07	2.0E-07	8.5E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	0.05887	0.0495	6.75E-04	7.41E-06	6.83E-04	2.4E-07	7.1E-07	5.6E-07	4.9E-07	2.2E-07	9.3E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	0.06479	0.05351	7.43E-04	8.01E-06	7.51E-04	2.6E-07	7.9E-07	6.2E-07	5.4E-07	2.4E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	0.07185	0.05811	8.24E-04	8.70E-06	8.33E-04	2.9E-07	8.7E-07	6.9E-07	6.0E-07	2.7E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	0.08038	0.06341	9.22E-04	9.50E-06	9.32E-04	3.2E-07	9.7E-07	7.7E-07	6.7E-07	3.0E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	0.09087	0.06956	1.04E-03	1.04E-05	1.05E-03	3.6E-07	1.1E-06	8.7E-07	7.5E-07	3.4E-07	1.4E-08	3.5E-07	0.0E+00	0.0E+00	0.0E+00	3.6E-07
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	0.10397	0.0768	1.19E-03	1.15E-05	1.20E-03	4.2E-07	1.3E-06	9.9E-07	8.6E-07	3.9E-07	1.6E-08	4.0E-07	0.0E+00	0.0E+00	0.0E+00	4.1E-07
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	0.12076	0.08534	1.39E-03	1.28E-05	1.40E-03	4.8E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	1.9E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.8E-07
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	0.14293	0.09553	1.64E-03	1.43E-05	1.65E-03	5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	2.2E-08	5.4E-07	0.0E+00	0.0E+00	0.0E+00	5.7E-07
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	0.10074	0.03781	1.16E-03	5.66E-06	1.16E-03	4.0E-07	1.2E-06	9.6E-07	8.3E-07	3.7E-07	1.6E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	0.12189	0.03875	1.40E-03	5.80E-06	1.40E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	1.9E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.8E-07
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	0.15432	0.0396	1.77E-03	5.93E-06	1.78E-03	6.1E-07	1.9E-06	1.5E-06	1.3E-06	5.7E-07	2.4E-08	5.8E-07	0.0E+00	0.0E+00	0.0E+00	6.1E-07
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	0.20993	0.04036	2.41E-03	6.04E-06	2.41E-03	8.4E-07	2.5E-06	2.0E-06	1.7E-06	7.8E-07	3.3E-08	7.9E-07	0.0E+00	0.0E+00	0.0E+00	8.3E-07
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	0.32296	0.04102	3.71E-03	6.14E-06	3.71E-03	1.3E-06	3.9E-06	3.1E-06	2.7E-06	1.2E-06	5.0E-08	1.2E-06	0.0E+00	0.0E+00	0.0E+00	1.3E-06
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	0.58806	0.04165	6.75E-03	6.24E-06	6.75E-03	2.3E-06	7.1E-06	5.6E-06	4.8E-06	2.2E-06	9.2E-08	2.2E-06	0.0E+00	0.0E+00	0.0E+00	2.3E-06
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	0.11407	0.04041	1.31E-03	6.05E-06	1.31E-03	4.6E-07	1.4E-06	1.1E-06	9.4E-07	4.2E-07	1.8E-08	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.5E-07
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	0.14217	0.04153	1.63E-03	6.22E-06	1.64E-03	5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	2.2E-08	5.4E-07	0.0E+00	0.0E+00	0.0E+00	5.6E-07
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	0.1887	0.04257	2.16E-03	6.37E-06	2.17E-03	7.5E-07	2.3E-06	1.8E-06	1.6E-06	7.0E-07	3.0E-08	7.1E-07	0.0E+00	0.0E+00	0.0E+00	7.4E-07
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	0.27966	0.0435	3.21E-03	6.51E-06	3.21E-03	1.1E-06	3.4E-06	2.7E-06	2.3E-06	1.0E-06	4.4E-08	1.1E-06	0.0E+00	0.0E+00	0.0E+00	1.1E-06
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	0.52472	0.0443	6.02E-03	6.63E-06	6.03E-03	2.1E-06	6.3E-06	5.0E-06	4.3E-06	1.9E-06	8.2E-08	2.0E-06	0.0E+00	0.0E+00	0.0E+00	2.1E-06
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	2.03552	0.04509	2.34E-02	6.75E-06	2.34E-02	8.1E-06	2.4E-05	1.9E-05	1.7E-05	7.5E-06	3.2E-07	7.7E-06	0.0E+00	0.0E+00	0.0E+00	8.0E-06
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	0.12694	0.04332	1.46E-03	6.49E-06	1.46E-03	5.1E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	2.0E-08	4.8E-07	0.0E+00	0.0E+00	0.0E+00	5.0E-07
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	0.16141	0.04469	1.85E-03	6.69E-06	1.86E-03	6.4E-07	1.9E-06	1.5E-06	1.3E-06	6.0E-07	2.5E-08	6.1E-07	0.0E+00	0.0E+00	0.0E+00	6.4E-07
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	0.22017	0.04596	2.53E-03	6.88E-06	2.53E-03	8.8E-07	2.6E-06	2.1E-06	1.8E-06	8.1E-07	3.4E-08	8.3E-07	0.0E+00	0.0E+00	0.0E+00	8.7E-07
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	0.33883	0.04714	3.89E-03	7.06E-06	3.89E-03	1.3E-06	4.1E-06	3.2E-06	2.8E-06	1.3E-06	5.3E-08	1.3E-06	0.0E+00	0.0E+00	0.0E+00	1.3E-06
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	0.66343	0.04816	7.61E-03	7.21E-06	7.62E-03	2.6E-06	8.0E-06	6.3E-06	5.4E-06	2.4E-06	1.0E-07	2.5E-06	0.0E+00	0.0E+00	0.0E+00	2.6E-06
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	2.44777	0.0491	2.81E-02	7.35E-06	2.81E-02	9.7E-06	2.9E-05	2.3E-05	2.0E-05	9.0E-06	3.8E-07	9.2E-06	0.0E+00	0.0E+00	0.0E+00	9.6E-06
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	0.13843	0.04661	1.59E-03	6.98E-06	1.60E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	2.2E-08	5.2E-07	0.0E+00	0.0E+00	0.0E+00	5.5E-07
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	0.17772	0.0483	2.04E-03	7.23E-06	2.05E-03	7.1E-07	2.1E-06	1.7E-06	1.5E-06	6.6E-07	2.8E-08	6.7E-07	0.0E+00	0.0E+00	0.0E+00	7.0E-07
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	0.2445	0.04989	2.81E-03	7.47E-06	2.81E-03	9.7E-07	2.9E-06	2.3E-06	2.0E-06	9.0E-07	3.8E-08	9.2E-07	0.0E+00	0.0E+00	0.0E+00	9.6E-07
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	0.37695	0.05136	4.32E-03	7.69E-06	4.33E-03	1.5E-06	4.5E-06	3.6E-06	3.1E-06	1.4E-06	5.9E-08	1.4E-06	0.0E+00	0.0E+00	0.0E+00	1.5E-06
409	UCART6	439816.6	3761570.65	439816.61, 3761570.65	0.72356	0.05266	8.30E-03	7.89E-06	8.31E-03	2.9E-06	8.7E-06	6.9E-06	5.9E-06	2.7E-06	1.1E-07	2.7E-06	0.0E+00	0.0E+00	0.0E+00	2.8E-06
410	UCART6	439866.6	3761570.65	439866.61, 3761570.65	2.49639	0.05381	2.86E-02	8.06E-06	2.86E-02	9.9E-06	3.0E-05	2.4E-05	2.0E-05	9.2E-06	3.9E-07	9.4E-06	0.0E+00	0.0E+00	0.0E+00	9.8E-06
411	UCART7	440451.1	3762893.83	440451.14, 3762893.83	0.13084	0.71336	1.50E-03	1.07E-04	1.61E-03	5.6E-07	1.7E-06	1.3E-06	1.1E-06	5.2E-07	2.2E-08	5.3E-07	0.0E+00	0.0E+00	0.0E+00	5.5E-07
412	UCART7	440501.1	3762893.83	440501.14, 3762893.83	0.11831	0.55696	1.36E-03	8.34E-05	1.44E-03	5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	2.0E-08	4.7E-07	0.0E+00	0.0E+00	0.0E+00	4.9E-07
413	UCART7	440551.1	3762893.83	440551.14, 3762893.83	0.10799	0.45329	1.24E-03	6.79E-05	1.31E-03	4.5E-07	1.4E-06	1.1E-06	9.3E-07	4.2E-07	1.8E-08	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.5E-07
414	UCART7	440601.1	3762893.83	440601.14, 3762893.83	0.09918	0.37853	1.14E-03	5.67E-05	1.19E-03	4.1E-07	1.2E-06	9.9E-07	8.5E-07	3.8E-07	1.6E-08	3.9E-07	0.0E+00	0.0E+00	0.0E+00	4.1E-07
415	UCART7	440651.1	3762893.83	440651.14, 3762893.83	0.09175	0.32264	1.05E-03	4.83E-05	1.10E-03	3.8E-07	1.2E-06	9.1E-07	7.9E-07	3.5E-07	1.5E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.8E-07
416	UCART7	440701.1	3762893.83	440701.14, 3762893.83	0.08541	0.27922	9.80E-04	4.18E-05	1.02E-03	3.5E-07	1.1E-06	8.4E-07	7.3E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
417	UCART7	440751.1	3762893.83	440751.14, 3762893.83	0.0801	0.24509	9.19E-04	3.67E-05	9.56E-04	3.3E-07	1.0E-06	7.9E-07	6.8E-07	3.1E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
418	UCART7	440801.1	3762893.83	440801.14, 3762893.83	0.07536	0.21685	8.65E-04	3.25E-05	8.97E-04	3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
419	UCART7	440851.1	3762893.83	440851.14, 3762893.83	0.07133	0.1937	8.18E-04	2.90E-05	8.47E-04	2.9E-07	8.9E-07	7.0E-07	6.1E-07	2.7E-07	1.2E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
420	UCART7	440451.1	3762943.83	440451.14, 3762943.83	0.12839	0.48441	1.47E-03	7.25E-05	1.55E-03	5.3E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	2.1E-08	5.1E-07	0.0E+00	0.0E+00	0.0E+00	5.3E-07
421	UCART7	440501.1	3762943.83	440501.14, 3762943.83	0.11578	0.41652	1.33E-03	6.24E-05	1.39E-03	4.8E-07	1.5E-06	1.1E-06	9.9E-07	4.5E-07	1.9E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.8E-07
422	UCART7	440551.1	3762943.83	440551.14, 3762943.83	0.10554	0.36019	1.21E-03	5.39E-05	1.26E-03	4.4E-07	1.3E-06	1.0E-06	9.0E-07	4.1E-07	1.7E-08	4.2E-07	0.0E+00	0.0E+00	0.0E+00	4.3E-07
423	UCART7	440601.1	3762943.83	440601.14, 3762943.83	0.09674	0.31276	1.11E-03	4.68E-05	1.16E-03	4.0E-07	1.2E-06	9.5E-07	8.3E-07	3.7E-07	1.6E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	4.0E-07
424	UCART7	440651.1	3762943.83	440651.14, 3762943.83	0.08948	0.27484	1.03E-03	4.12E-05	1.07E-03	3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	1.5E-08	3.5E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
425	UCART7	440701.1	3762943.83	440701.14, 3762943.83	0.08327	0.24346	9.55E-04	3.65E-05	9.92E-04	3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	1.3E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
426	UCART7	440751.1	3762943.83	440751.14, 3762943.83	0.07808	0.21786	8.96E-04	3.26E-05	9.28E-04	3.2E-07	9.7E-07	7.7E-07	6.6E-07	3.0E-07	1.3E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
427	UCART7	440801.1	3762943.83	440801.14, 3762943.83	0.07322	0.19498	8.40E-04	2.92E-05	8.69E-04	3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07

PHASE 1 CONSTRUCTION

Unmitigated	
Onsite	Offsite
1.15E-02	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Total
428	UCART7	440851.1	3762943.83	440851.14, 3762943.83	0.06894	0.17557	8.17E-04
429	UCART8	441116.7	3763135.31	441116.67, 3763135.31	0.04713	0.08195	5.53E-04
430	UCART8	441166.7	3763135.31	441166.67, 3763135.31	0.04523	0.078	5.31E-04
431	UCART8	441116.7	3763185.31	441116.67, 3763185.31	0.0456	0.07457	5.34E-04
432	UCART8	441166.7	3763185.31	441166.67, 3763185.31	0.04378	0.07151	5.13E-04
433	UCART8	441116.7	3763235.31	441116.67, 3763235.31	0.04411	0.06769	5.16E-04
434	UCART8	441166.7	3763235.31	441166.67, 3763235.31	0.04233	0.06531	4.95E-04
435	UCART8	441116.7	3763285.31	441116.67, 3763285.31	0.04247	0.06091	4.96E-04
436	UCART8	441166.7	3763285.31	441166.67, 3763285.31	0.04083	0.05934	4.77E-04
437	UCART8	441116.7	3763335.31	441116.67, 3763335.31	0.04085	0.05488	4.77E-04
438	UCART8	441166.7	3763335.31	441166.67, 3763335.31	0.03927	0.0537	4.59E-04
439	UCART8	441116.7	3763385.31	441116.67, 3763385.31	0.03923	0.04952	4.57E-04
440	UCART8	441166.7	3763385.31	441166.67, 3763385.31	0.03768	0.04855	4.40E-04
441	UCART8	441116.7	3763435.31	441116.67, 3763435.31	0.03755	0.0447	4.37E-04
442	UCART8	441166.7	3763435.31	441166.67, 3763435.31	0.03614	0.04407	4.21E-04
443	UCART9	440433.4	3762815.13	440433.43, 3762815.13	0.14029	1.21998	1.79E-03
444	UCART9	440483.4	3762815.13	440483.43, 3762815.13	0.12676	0.83936	1.58E-03
445	UCART9	440533.4	3762815.13	440533.43, 3762815.13	0.11568	0.63367	1.42E-03
446	UCART9	440583.4	3762815.13	440583.43, 3762815.13	0.10621	0.50284	1.29E-03
447	UCART9	440633.4	3762815.13	440633.43, 3762815.13	0.09835	0.4129	1.19E-03
448	UCART9	440683.4	3762815.13	440683.43, 3762815.13	0.09163	0.34695	1.10E-03
449	UCART9	440733.4	3762815.13	440733.43, 3762815.13	0.08575	0.29642	1.03E-03
450	UCART9	440783.4	3762815.13	440783.43, 3762815.13	0.0808	0.25711	9.65E-04
451	UCART9	440833.4	3762815.13	440833.43, 3762815.13	0.07625	0.22507	9.08E-04
452	UCART9	440883.4	3762815.13	440883.43, 3762815.13	0.07232	0.19911	8.60E-04
453	UCART9	440933.4	3762815.13	440933.43, 3762815.13	0.069	0.1779	8.18E-04
454	UCART9	440983.4	3762815.13	440983.43, 3762815.13	0.06592	0.15989	7.80E-04
455	UCART9	440433.4	3762865.13	440433.43, 3762865.13	0.13756	0.98413	1.73E-03
456	UCART9	440483.4	3762865.13	440483.43, 3762865.13	0.12406	0.70349	1.53E-03
457	UCART9	440533.4	3762865.13	440533.43, 3762865.13	0.11295	0.54623	1.38E-03
458	UCART9	440583.4	3762865.13	440583.43, 3762865.13	0.10361	0.44314	1.26E-03
459	UCART9	440633.4	3762865.13	440633.43, 3762865.13	0.09568	0.36975	1.15E-03
460	UCART9	440683.4	3762865.13	440683.43, 3762865.13	0.08903	0.31509	1.07E-03
461	UCART9	440733.4	3762865.13	440733.43, 3762865.13	0.08322	0.2724	9.96E-04
462	UCART9	440783.4	3762865.13	440783.43, 3762865.13	0.07827	0.23856	9.34E-04
463	UCART9	440833.4	3762865.13	440833.43, 3762865.13	0.074	0.21117	8.81E-04
464	UCART9	440883.4	3762865.13	440883.43, 3762865.13	0.07021	0.18842	8.34E-04
465	UCART9	440933.4	3762865.13	440933.43, 3762865.13	0.06685	0.16931	7.92E-04
466	UCART9	440983.4	3762865.13	440983.43, 3762865.13	0.06372	0.1529	7.54E-04
467	UCART10	441118.3	3762686.02	441118.27, 3762686.02	0.06608	0.1272	7.77E-04
468	UCART10	441168.3	3762686.02	441168.27, 3762686.02	0.06372	0.11599	7.48E-04
469	UCART10	441118.3	3762736.02	441118.27, 3762736.02	0.06268	0.1267	7.38E-04
470	UCART10	441168.3	3762736.02	441168.27, 3762736.02	0.06046	0.1158	7.11E-04
471	UCART10	441118.3	3762786.02	441118.27, 3762786.02	0.06011	0.12495	7.08E-04
472	UCART10	441168.3	3762786.02	441168.27, 3762786.02	0.05782	0.11433	6.80E-04
473	UCART10	441118.3	3762836.02	441118.27, 3762836.02	0.05787	0.12174	6.82E-04
474	UCART10	441168.3	3762836.02	441168.27, 3762836.02	0.0556	0.11169	6.55E-04
475	UCART11	440411.7	3762093.41	440411.67, 3762093.41	3.06911	0.25152	3.52E-02
476	UCART11	440461.7	3762093.41	440461.67, 3762093.41	3.05806	0.22102	3.51E-02
477	UCART11	440511.7	3762093.41	440511.67, 3762093.41	3.04803	0.19531	3.50E-02
478	UCART11	440561.7	3762093.41	440561.67, 3762093.41	3.03996	0.17371	3.49E-02
479	UCART11	440611.7	3762093.41	440611.67, 3762093.41	3.03259	0.15551	3.48E-02
480	UCART11	440411.7	3762143.41	440411.67, 3762143.41	0.83431	0.32792	9.57E-03
481	UCART11	440461.7	3762143.41	440461.67, 3762143.41	0.83115	0.27895	9.54E-03
482	UCART11	440511.7	3762143.41	440511.67, 3762143.41	0.82091	0.24007	9.42E-03
483	UCART11	440561.7	3762143.41	440561.67, 3762143.41	0.81737	0.20899	9.38E-03
484	UCART11	440611.7	3762143.41	440611.67, 3762143.41	0.80847	0.18378	9.28E-03
485	UCART12	440406.6	3762008.86	440406.61, 3762008.86	0.74502	0.17276	8.55E-03
486	UCART12	440456.6	3762008.86	440456.61, 3762008.86	0.73366	0.15766	8.42E-03
487	UCART12	440506.6	3762008.86	440506.61, 3762008.86	0.72401	0.14393	8.31E-03
488	UCART12	440556.6	3762008.86	440556.61, 3762008.86	0.71543	0.1316	8.21E-03

Residential Dose					Risk by Age Group					
Onsite	Offsite									
7.91E-04	2.63E-05	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
5.41E-04	1.23E-05	1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	7.5E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
5.19E-04	1.17E-05	1.8E-07	5.5E-07	4.4E-07	3.8E-07	1.7E-07	7.2E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
5.23E-04	1.12E-05	1.8E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	7.3E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
5.02E-04	1.07E-05	1.8E-07	5.4E-07	4.2E-07	3.7E-07	1.6E-07	7.0E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
5.06E-04	1.01E-05	1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	7.0E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
4.86E-04	9.78E-06	1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	6.7E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
4.87E-04	9.12E-06	1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	6.8E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
4.68E-04	8.89E-06	1.7E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	6.5E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
4.69E-04	8.22E-06	1.7E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	6.5E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
4.51E-04	8.04E-06	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	6.2E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
4.50E-04	7.42E-06	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	6.2E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
4.32E-04	7.27E-06	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	6.0E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
4.31E-04	6.69E-06	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	5.9E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
4.15E-04	6.60E-06	1.5E-07	4.4E-07	3.5E-07	3.0E-07	1.4E-07	5.7E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.4E-07
1.61E-03	1.83E-04	6.2E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	2.4E-08	5.9E-07	0.0E+00	0.0E+00	0.0E+00	6.1E-07
1.45E-03	1.26E-04	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	2.1E-08	5.2E-07	0.0E+00	0.0E+00	0.0E+00	5.4E-07
1.33E-03	9.49E-05	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	1.9E-08	4.7E-07	0.0E+00	0.0E+00	0.0E+00	4.9E-07
1.22E-03	7.53E-05	4.5E-07	1.4E-06	1.1E-06	9.2E-07	4.2E-07	1.8E-08	4.3E-07	0.0E+00	0.0E+00	0.0E+00	4.4E-07
1.13E-03	6.18E-05	4.1E-07	1.2E-06	9.8E-07	8.5E-07	3.8E-07	1.6E-08	3.9E-07	0.0E+00	0.0E+00	0.0E+00	4.1E-07
1.05E-03	5.20E-05	3.8E-07	1.2E-06	9.1E-07	7.9E-07	3.5E-07	1.5E-08	3.6E-07	0.0E+00	0.0E+00	0.0E+00	3.8E-07
9.84E-04	4.44E-05	3.6E-07	1.1E-06	8.5E-07	7.3E-07	3.3E-07	1.4E-08	3.4E-07	0.0E+00	0.0E+00	0.0E+00	3.5E-07
9.27E-04	3.85E-05	3.3E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	1.3E-08	3.2E-07	0.0E+00	0.0E+00	0.0E+00	3.3E-07
8.75E-04	3.37E-05	3.1E-07	9.5E-07	7.5E-07	6.5E-07	2.9E-07	1.2E-08	3.0E-07	0.0E+00	0.0E+00	0.0E+00	3.1E-07
8.30E-04	2.98E-05	3.0E-07	9.0E-07	7.1E-07	6.1E-07	2.8E-07	1.2E-08	2.8E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
7.92E-04	2.66E-05	2.8E-07	8.6E-07	6.8E-07	5.8E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
7.56E-04	2.39E-05	2.7E-07	8.2E-07	6.4E-07	5.6E-07	2.5E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
1.58E-03	1.47E-04	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	2.3E-08	5.7E-07	0.0E+00	0.0E+00	0.0E+00	5.9E-07
1.42E-03	1.05E-04	5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	2.1E-08	5.0E-07	0.0E+00	0.0E+00	0.0E+00	5.2E-07
1.30E-03	8.18E-05	4.8E-07	1.4E-06	1.1E-06	9.8E-07	4.4E-07	1.9E-08	4.5E-07	0.0E+00	0.0E+00	0.0E+00	4.7E-07
1.19E-03	6.64E-05	4.3E-07	1.3E-06	1.0E-06	9.0E-07	4.0E-07	1.7E-08	4.1E-07	0.0E+00	0.0E+00	0.0E+00	4.3E-07
1.10E-03	5.54E-05	4.0E-07	1.2E-06	9.5E-07	8.2E-07	3.7E-07	1.6E-08	3.8E-07	0.0E+00	0.0E+00	0.0E+00	3.9E-07
1.02E-03	4.72E-05	3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	1.5E-08	3.5E-07	0.0E+00	0.0E+00	0.0E+00	3.7E-07
9.55E-04	4.08E-05	3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07
8.98E-04	3.57E-05	3.2E-07	9.8E-07	7.7E-07	6.7E-07	3.0E-07	1.3E-08	3.1E-07	0.0E+00	0.0E+00	0.0E+00	3.2E-07
8.49E-04	3.16E-05	3.0E-07	9.2E-07	7.3E-07	6.3E-07	2.8E-07	1.2E-08	2.9E-07	0.0E+00	0.0E+00	0.0E+00	3.0E-07
8.05E-04	2.82E-05	2.9E-07	8.7E-07	6.9E-07	6.0E-07	2.7E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.9E-07
7.67E-04	2.54E-05	2.7E-07	8.3E-07	6.5E-07	5.7E-07	2.5E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
7.31E-04	2.29E-05	2.6E-07	7.9E-07	6.2E-07	5.4E-07	2.4E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
7.58E-04	1.90E-05	2.7E-07	8.1E-07	6.4E-07	5.6E-07	2.5E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
7.31E-04	1.74E-05	2.6E-07	7.8E-07	6.2E-07	5.3E-07	2.4E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
7.19E-04	1.90E-05	2.6E-07	7.7E-07	6.1E-07	5.3E-07	2.4E-07	1.0E-08	2.4E-07	0.0E+00	0.0E+00	0.0E+00	2.5E-07
6.94E-04	1.73E-05	2.5E-07	7.4E-07	5.9E-07	5.1E-07	2.3E-07	9.7E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
6.90E-04	1.87E-05	2.5E-07	7.4E-07	5.8E-07	5.1E-07	2.3E-07	9.6E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
6.63E-04	1.71E-05	2.4E-07	7.1E-07	5.6E-07	4.9E-07	2.2E-07	9.3E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
6.64E-04	1.82E-05	2.4E-07	7.1E-07	5.6E-07	4.9E-07	2.2E-07	9.3E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
6.38E-04	1.67E-05	2.3E-07	6.8E-07	5.4E-07	4.7E-07	2.1E-07	8.9E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
3.52E-02	3.77E-05	1.2E-05	3.7E-05	2.9E-05	2.5E-05	1.1E-05	4.8E-07	1.2E-05	0.0E+00	0.0E+00	0.0E+00	1.2E-05
3.51E-02	3.31E-05	1.2E-05	3.7E-05	2.9E-05	2.5E-05	1.1E-05	4.8E-07	1.2E-05	0.0E+00	0.0E+00	0.0E+00	1.2E-05
3.50E-02	2.92E-05	1.2E-05	3.7E-05	2.9E-05	2.5E-05	1.1E-05	4.8E-07	1.1E-05	0.0E+00	0.0E+00	0.0E+00	1.2E-05
3.49E-02	2.60E-05	1.2E-05	3.6E-05	2.9E-05	2.5E-05	1.1E-05	4.7E-07	1.1E-05	0.0E+00	0.0E+00	0.0E+00	1.2E-05
3.48E-02	2.33E-05	1.2E-05	3.6E-05	2.9E-05	2.5E-05	1.1E-05	4.7E-07	1.1E-05	0.0E+00	0.0E+00	0.0E+00	1.2E-05
9.57E-03	4.91E-05	3.3E-06	1.0E-05	7.9E-06	6.9E-06	3.1E-06	1.3E-07	3.2E-06	0.0E+00	0.0E+00	0.0E+00	3.3E-06
9.54E-03	4.18E-05	3.3E-06	1.0E-05	7.9E-06	6.8E-06	3.1E-06	1.3E-07	3.1E-06	0.0E+00	0.0E+00	0.0E+00	3.3E-06
9.42E-03	3.60E-05	3.3E-06	9.9E-06	7.8E-06	6.8E-06	3.0E-06	1.3E-07	3.1E-06	0.0E+00	0.0E+00	0.0E+00	3.2E-06
9.38E-03	3.13E-05	3.3E-06	9.8E-06	7.8E-06	6.7E-06	3.0E-06	1.3E-07	3.1E-06	0.0E+00	0.0E+00	0.0E+00	3.2E-06
9.28E-03	2.75E-05	3.2E-06	9.7E-06	7.7E-06	6.6E-06	3.0E-06	1.3E-07	3.1E-06	0.0E+00	0.0E+00	0.0E+00	3.2E-06
8.55E-03	2.59E-05	3.0E-06	9.0E-06	7.1E-06	6.1E-06	2.8E-06	1.2E-07	2.8E-06	0.0E+00	0.0E+00	0.0E+00	2.9E-06
8.42E-03	2.36E-05	2.9E-06	8.8E-06	7.0E-06	6.0E-06	2.7E-06	1.1E-07	2.8E-06	0.0E+00	0.0E+00	0.0E+00	2.9E-06
8.31E-03	2.16E-05	2.9E-06	8.7E-06	6.9E-06	5.9E-06	2.7E-06	1.1E-07	2.7E-06	0.0E+00	0.0E+00	0.0E+00	2.8E-06
8.21E-03	1.97E-05	2.8E-06	8.6E-06	6.8E-06	5.9E-06	2.6E-06	1.1E-07	2.7E-06	0.0E+00	0.0E+00	0.0E+00	2.8E-06

PHASE 1 CONSTRUCTION

Unmitigated	
Onsite	Offsite
1.15E-02	1.50E-04

						Concentration (AVERAGE CONC) [ug/m^3 Concentration (AVERAGE CONC) [ug/m^3]			Residential Dose					Risk by Age Group					
Discrete Receptor ID		X	Y	X, Y	Onsite	Offsite	Onsite	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
489	UCART12	440606.6	3762008.86	440606.61, 3762008.86	0.70783	0.12063	8.12E-03	1.81E-05	8.14E-03	2.8E-06	8.5E-06	6.7E-06	5.8E-06	2.6E-06	1.1E-07	2.7E-06	0.0E+00	0.0E+00	0.0E+00	2.8E-06
490	UCART12	440656.6	3762008.86	440656.61, 3762008.86	0.70058	0.11092	8.04E-03	1.66E-05	8.05E-03	2.8E-06	8.4E-06	6.6E-06	5.8E-06	2.6E-06	1.1E-07	2.6E-06	0.0E+00	0.0E+00	0.0E+00	2.8E-06
491	UCART12	440706.6	3762008.86	440706.61, 3762008.86	0.69377	0.10232	7.96E-03	1.53E-05	7.97E-03	2.8E-06	8.3E-06	6.6E-06	5.7E-06	2.6E-06	1.1E-07	2.6E-06	0.0E+00	0.0E+00	0.0E+00	2.7E-06
492	UCART12	440756.6	3762008.86	440756.61, 3762008.86	0.68735	0.0947	7.89E-03	1.42E-05	7.90E-03	2.7E-06	8.3E-06	6.5E-06	5.6E-06	2.5E-06	1.1E-07	2.6E-06	0.0E+00	0.0E+00	0.0E+00	2.7E-06
493	UCART12	440806.6	3762008.86	440806.61, 3762008.86	0.67919	0.08791	7.79E-03	1.32E-05	7.81E-03	2.7E-06	8.2E-06	6.4E-06	5.6E-06	2.5E-06	1.1E-07	2.6E-06	0.0E+00	0.0E+00	0.0E+00	2.7E-06
494	UCART12	440856.6	3762008.86	440856.61, 3762008.86	0.67197	0.08188	7.71E-03	1.23E-05	7.72E-03	2.7E-06	8.1E-06	6.4E-06	5.5E-06	2.5E-06	1.1E-07	2.5E-06	0.0E+00	0.0E+00	0.0E+00	2.6E-06
495	UCART12	440906.6	3762008.86	440906.61, 3762008.86	0.66335	0.07651	7.61E-03	1.15E-05	7.62E-03	2.6E-06	8.0E-06	6.3E-06	5.4E-06	2.4E-06	1.0E-07	2.5E-06	0.0E+00	0.0E+00	0.0E+00	2.6E-06
496	UCART12	440956.6	3762008.86	440956.61, 3762008.86	0.65041	0.07169	7.46E-03	1.07E-05	7.47E-03	2.6E-06	7.8E-06	6.2E-06	5.3E-06	2.4E-06	1.0E-07	2.5E-06	0.0E+00	0.0E+00	0.0E+00	2.6E-06
497	UCART12	441006.6	3762008.86	441006.61, 3762008.86	0.63126	0.06735	7.24E-03	1.01E-05	7.25E-03	2.5E-06	7.6E-06	6.0E-06	5.2E-06	2.3E-06	9.9E-08	2.4E-06	0.0E+00	0.0E+00	0.0E+00	2.5E-06
498	UCART12	441056.6	3762008.86	441056.61, 3762008.86	0.59757	0.06344	6.86E-03	9.50E-06	6.87E-03	2.4E-06	7.2E-06	5.7E-06	4.9E-06	2.2E-06	9.3E-08	2.3E-06	0.0E+00	0.0E+00	0.0E+00	2.3E-06
499	UCART12	441106.6	3762008.86	441106.61, 3762008.86	0.53191	0.05992	6.10E-03	8.97E-06	6.11E-03	2.1E-06	6.4E-06	5.0E-06	4.4E-06	2.0E-06	8.3E-08	2.0E-06	0.0E+00	0.0E+00	0.0E+00	2.1E-06
500	UCART12	441156.6	3762008.86	441156.61, 3762008.86	0.41189	0.05673	4.73E-03	8.50E-06	4.73E-03	1.6E-06	4.9E-06	3.9E-06	3.4E-06	1.5E-06	6.4E-08	1.6E-06	0.0E+00	0.0E+00	0.0E+00	1.6E-06
501	UCART12	440406.6	3762058.86	440406.61, 3762058.86	2.6557	0.21523	3.05E-02	3.22E-05	3.05E-02	1.1E-05	3.2E-05	2.5E-05	2.2E-05	9.8E-06	4.1E-07	1.0E-05	0.0E+00	0.0E+00	0.0E+00	1.0E-05
502	UCART12	440456.6	3762058.86	440456.61, 3762058.86	2.64227	0.19248	3.03E-02	2.88E-05	3.03E-02	1.1E-05	3.2E-05	2.5E-05	2.2E-05	9.7E-06	4.1E-07	1.0E-05	0.0E+00	0.0E+00	0.0E+00	1.0E-05
503	UCART12	440506.6	3762058.86	440506.61, 3762058.86	2.63465	0.17262	3.02E-02	2.58E-05	3.03E-02	1.0E-05	3.2E-05	2.5E-05	2.2E-05	9.7E-06	4.1E-07	9.9E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
504	UCART12	440556.6	3762058.86	440556.61, 3762058.86	2.62499	0.15542	3.01E-02	2.33E-05	3.01E-02	1.0E-05	3.2E-05	2.5E-05	2.2E-05	9.7E-06	4.1E-07	9.9E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
505	UCART12	440606.6	3762058.86	440606.61, 3762058.86	2.61951	0.14057	3.01E-02	2.11E-05	3.01E-02	1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.7E-06	4.1E-07	9.9E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
506	UCART12	440656.6	3762058.86	440656.61, 3762058.86	2.60831	0.12775	2.99E-02	1.91E-05	2.99E-02	1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.6E-06	4.1E-07	9.8E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
507	UCART12	440706.6	3762058.86	440706.61, 3762058.86	2.61333	0.11664	3.00E-02	1.75E-05	3.00E-02	1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.6E-06	4.1E-07	9.9E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
508	UCART12	440756.6	3762058.86	440756.61, 3762058.86	2.61271	0.10697	3.00E-02	1.60E-05	3.00E-02	1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.6E-06	4.1E-07	9.9E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
509	UCART12	440806.6	3762058.86	440806.61, 3762058.86	2.57497	0.0985	2.95E-02	1.48E-05	2.96E-02	1.0E-05	3.1E-05	2.4E-05	2.1E-05	9.5E-06	4.0E-07	9.7E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
510	UCART12	440856.6	3762058.86	440856.61, 3762058.86	2.58087	0.09108	2.96E-02	1.36E-05	2.96E-02	1.0E-05	3.1E-05	2.4E-05	2.1E-05	9.5E-06	4.0E-07	9.7E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	2.58765	0.08454	2.97E-02	1.27E-05	2.97E-02	1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.5E-06	4.0E-07	9.8E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	2.56616	0.07875	2.94E-02	1.18E-05	2.95E-02	1.0E-05	3.1E-05	2.4E-05	2.1E-05	9.5E-06	4.0E-07	9.7E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	2.54074	0.0736	2.91E-02	1.10E-05	2.92E-02	1.0E-05	3.0E-05	2.4E-05	2.1E-05	9.4E-06	4.0E-07	9.6E-06	0.0E+00	0.0E+00	0.0E+00	1.0E-05
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	2.49408	0.06901	2.86E-02	1.03E-05	2.86E-02	9.9E-06	3.0E-05	2.4E-05	2.0E-05	9.2E-06	3.9E-07	9.4E-06	0.0E+00	0.0E+00	0.0E+00	9.8E-06
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	2.36345	0.06489	2.71E-02	9.72E-06	2.71E-02	9.4E-06	2.8E-05	2.2E-05	1.9E-05	8.7E-06	3.7E-07	8.9E-06	0.0E+00	0.0E+00	0.0E+00	9.3E-06
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	1.49174	0.06119	1.71E-02	9.16E-06	1.71E-02	5.9E-06	1.8E-05	1.4E-05	1.2E-05	5.5E-06	2.3E-07	5.6E-06	0.0E+00	0.0E+00	0.0E+00	5.9E-06

PHASE 1 CONSTRUCTION MITIGATED

Mitigated	
Onsite	Offsite
9.10E-04	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	0.10573	0.04787	1.03E-04
2	1	439943.4	3761716.33	439943.36, 3761716.33	2.00117	0.0766	1.83E-03
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	0.04393	0.04232	4.63E-05
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	0.04761	0.04496	5.01E-05
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	0.05215	0.04816	5.47E-05
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	0.05753	0.05154	6.01E-05
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	0.0642	0.05544	6.67E-05
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	0.07266	0.05998	7.51E-05
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	0.08357	0.06521	8.58E-05
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	0.09781	0.07085	9.96E-05
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	0.11721	0.07716	1.18E-04
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	0.14451	0.08392	1.44E-04
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	0.18537	0.09132	1.82E-04
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	0.25217	0.09999	2.44E-04
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	0.37561	0.10997	3.58E-04
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	0.66351	0.12095	6.22E-04
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	1.83335	0.1328	1.69E-03
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	0.04258	0.04024	4.48E-05
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	0.04612	0.04262	4.83E-05
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	0.0505	0.0455	5.28E-05
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	0.05563	0.04841	5.79E-05
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	0.06205	0.0518	6.42E-05
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	0.07021	0.05571	7.22E-05
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	0.08051	0.05967	8.22E-05
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	0.09418	0.0641	9.53E-05
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	0.11313	0.06932	1.13E-04
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	0.14001	0.07481	1.39E-04
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	0.18018	0.08032	1.76E-04
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	0.24622	0.08659	2.37E-04
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	0.36866	0.09348	3.49E-04
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	0.65463	0.1008	6.11E-04
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	1.81448	0.10844	1.67E-03
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	0.04116	0.03824	4.32E-05
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	0.04457	0.04041	4.66E-05
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	0.04875	0.04297	5.08E-05
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	0.05358	0.04541	5.56E-05
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	0.05972	0.04835	6.16E-05
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	0.06753	0.05167	6.92E-05
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	0.07732	0.05488	7.86E-05
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	0.09044	0.05849	9.11E-05
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	0.10855	0.06248	1.08E-04
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	0.13458	0.06685	1.32E-04
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	0.17369	0.07081	1.69E-04
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	0.23808	0.0749	2.28E-04
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	0.35867	0.07956	3.38E-04
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	0.64257	0.08475	5.97E-04
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	1.79239	0.09014	1.64E-03
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	0.03967	0.03628	4.15E-05
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	0.04291	0.03825	4.48E-05
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	0.04683	0.04047	4.87E-05
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	0.05147	0.04271	5.32E-05
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	0.05724	0.04518	5.89E-05
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	0.06449	0.04781	6.58E-05
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	0.07372	0.05041	7.46E-05
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	0.08614	0.05334	8.64E-05
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	0.10332	0.05651	1.02E-04
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	0.12811	0.05989	1.26E-04
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	0.16577	0.06299	1.60E-04
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	0.2282	0.06588	2.18E-04
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	0.34645	0.06898	3.26E-04
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	0.62695	0.07225	5.81E-04

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	1.1E-08	3.4E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.9E-07	2.5E-08	6.0E-07	0.0E+00	0.0E+00	0.0E+00	6.3E-07
1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	6.3E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	6.8E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.8E-08	7.4E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	8.2E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.1E-08	9.1E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
2.6E-08	7.8E-08	6.2E-08	5.4E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
3.0E-08	9.0E-08	7.1E-08	6.1E-08	2.8E-08	1.2E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	1.4E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
4.1E-08	1.2E-07	9.8E-08	8.4E-08	3.8E-08	1.6E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	2.0E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	2.5E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.2E-08
8.5E-08	2.6E-07	2.0E-07	1.7E-07	7.9E-08	3.3E-09	8.0E-08	0.0E+00	0.0E+00	0.0E+00	8.4E-08
1.2E-07	3.7E-07	3.0E-07	2.6E-07	1.2E-07	4.9E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
2.2E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	8.5E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	2.3E-08	5.5E-07	0.0E+00	0.0E+00	0.0E+00	5.8E-07
1.5E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	6.1E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	6.6E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	7.2E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
2.0E-08	6.0E-08	4.8E-08	4.1E-08	1.9E-08	7.9E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	8.7E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
2.5E-08	7.5E-08	6.0E-08	5.2E-08	2.3E-08	9.8E-10	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
2.8E-08	8.6E-08	6.8E-08	5.9E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
3.9E-08	1.2E-07	9.4E-08	8.1E-08	3.6E-08	1.5E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
4.8E-08	1.4E-07	1.1E-07	9.9E-08	4.5E-08	1.9E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.7E-08	2.4E-09	5.8E-08	0.0E+00	0.0E+00	0.0E+00	6.0E-08
8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	3.2E-09	7.8E-08	0.0E+00	0.0E+00	0.0E+00	8.1E-08
1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	4.8E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
2.1E-07	6.4E-07	5.0E-07	4.4E-07	2.0E-07	8.3E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
5.8E-07	1.7E-06	1.4E-06	1.2E-06	5.4E-07	2.3E-08	5.5E-07	0.0E+00	0.0E+00	0.0E+00	5.7E-07
1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	5.9E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
1.6E-08	4.9E-08	3.8E-08	3.3E-08	1.5E-08	6.3E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	6.9E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	7.6E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	8.4E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	9.4E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	1.1E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
3.2E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	1.2E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	1.5E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	1.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	2.3E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.8E-08
7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	3.1E-09	7.5E-08	0.0E+00	0.0E+00	0.0E+00	7.8E-08
1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	4.6E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
2.1E-07	6.2E-07	4.9E-07	4.3E-07	1.9E-07	8.1E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	2.2E-08	5.4E-07	0.0E+00	0.0E+00	0.0E+00	5.6E-07
1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	5.6E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
1.5E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	6.1E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	6.6E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
1.8E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	7.2E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
2.0E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	8.0E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
2.3E-08	6.9E-08	5.4E-08	4.7E-08	2.1E-08	9.0E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
2.6E-08	7.8E-08	6.2E-08	5.3E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
3.0E-08	9.0E-08	7.1E-08	6.2E-08	2.8E-08	1.2E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
3.5E-08	1.1E-07	8.5E-08	7.3E-08	3.3E-08	1.4E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
4.3E-08	1.3E-07	1.0E-07	9.0E-08	4.0E-08	1.7E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	2.2E-09	5.3E-08	0.0E+00	0.0E+00	0.0E+00	5.5E-08
7.5E-08	2.3E-07	1.8E-07	1.6E-07	7.0E-08	3.0E-09	7.1E-08	0.0E+00	0.0E+00	0.0E+00	7.4E-08
1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	4.4E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
2.0E-07	6.1E-07	4.8E-07	4.2E-07	1.9E-07	7.9E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07

PHASE 1 CONSTRUCTION MITIGATED

Mitigated	
Onsite	Offsite
9.10E-04	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Mitigated Onsite	Concentration (AVERAGE CONC) [ug/m^3 Mitigated Offsite	Concentration (AVERAGE CONC) [ug/m^3 Unmitigated Onsite	Concentration (AVERAGE CONC) [ug/m^3 Unmitigated Offsite	Concentration (AVERAGE CONC) [ug/m^3 Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	1.76604	0.07575	1.61E-03	1.13E-05	1.62E-03	5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	2.2E-08	5.3E-07	0.0E+00	0.0E+00	0.0E+00	5.5E-07
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	0.03807	0.03433	3.46E-05	5.14E-06	3.98E-05	1.4E-08	4.2E-08	3.3E-08	2.8E-08	1.3E-08	5.4E-10	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	0.04097	0.03579	3.73E-05	5.36E-06	4.26E-05	1.5E-08	4.5E-08	3.5E-08	3.0E-08	1.4E-08	5.8E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	0.04459	0.03765	4.06E-05	5.64E-06	4.62E-05	1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	6.3E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	0.04899	0.03975	4.46E-05	5.95E-06	5.05E-05	1.7E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	6.9E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	0.05447	0.04204	4.96E-05	6.30E-06	5.59E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	7.6E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	0.06106	0.04399	5.56E-05	6.59E-06	6.21E-05	2.2E-08	6.5E-08	5.1E-08	4.4E-08	2.0E-08	8.5E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	0.0696	0.04606	6.33E-05	6.90E-06	7.02E-05	2.4E-08	7.3E-08	5.8E-08	5.0E-08	2.3E-08	9.6E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	0.081	0.04827	7.37E-05	7.23E-06	8.09E-05	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	0.09717	0.05107	8.84E-05	7.65E-06	9.61E-05	3.3E-08	1.0E-07	7.9E-08	6.9E-08	3.1E-08	1.3E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	0.12016	0.05351	1.09E-04	8.01E-06	1.17E-04	4.1E-08	1.2E-07	9.7E-08	8.4E-08	3.8E-08	1.6E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	0.15562	0.05602	1.42E-04	8.39E-06	1.50E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.1E-08
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	0.21489	0.05809	1.96E-04	8.70E-06	2.04E-04	7.1E-08	2.1E-07	1.7E-07	1.5E-07	6.6E-08	2.8E-09	6.7E-08	0.0E+00	0.0E+00	0.0E+00	7.0E-08
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	0.32829	0.05963	2.99E-04	8.93E-06	3.08E-04	1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.9E-08	4.2E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	0.60357	0.06205	5.49E-04	9.29E-06	5.58E-04	1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	7.6E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	1.73131	0.06472	1.58E-03	9.69E-06	1.59E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	2.2E-08	5.2E-07	0.0E+00	0.0E+00	0.0E+00	5.4E-07
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	0.03643	0.03244	3.31E-05	4.86E-06	3.80E-05	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	5.2E-10	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	0.03913	0.03374	3.56E-05	5.05E-06	4.07E-05	1.4E-08	4.2E-08	3.4E-08	2.9E-08	1.3E-08	5.5E-10	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	0.04256	0.03558	3.87E-05	5.33E-06	4.41E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	6.0E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	0.04656	0.03727	4.24E-05	5.58E-06	4.79E-05	1.7E-08	5.0E-08	4.0E-08	3.4E-08	1.5E-08	6.5E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	0.05155	0.03919	4.69E-05	5.87E-06	5.28E-05	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	7.2E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	0.05758	0.04082	5.24E-05	6.11E-06	5.85E-05	2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	8.0E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	0.06532	0.04245	5.94E-05	6.36E-06	6.58E-05	2.3E-08	6.9E-08	5.4E-08	4.7E-08	2.1E-08	8.9E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	0.07565	0.04416	6.88E-05	6.61E-06	7.54E-05	2.6E-08	7.9E-08	6.2E-08	5.4E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	0.09014	0.04623	8.20E-05	6.92E-06	8.89E-05	3.1E-08	9.3E-08	7.3E-08	6.4E-08	2.9E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	0.11109	0.04837	1.01E-04	7.24E-06	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	1.5E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	0.14309	0.05013	1.30E-04	7.51E-06	1.38E-04	4.8E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	1.9E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	0.19723	0.05164	1.79E-04	7.73E-06	1.87E-04	6.5E-08	2.0E-07	1.5E-07	1.3E-07	6.0E-08	2.5E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	0.3023	0.05246	2.75E-04	7.86E-06	2.83E-04	9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	3.8E-09	9.3E-08	0.0E+00	0.0E+00	0.0E+00	9.7E-08
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	0.56552	0.05422	5.15E-04	8.12E-06	5.23E-04	1.8E-07	5.5E-07	4.3E-07	3.7E-07	1.7E-07	7.1E-09	1.7E-07	0.0E+00	0.0E+00	0.0E+00	1.8E-07
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	1.67593	0.05623	1.52E-03	8.42E-06	1.53E-03	5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	2.1E-08	5.0E-07	0.0E+00	0.0E+00	0.0E+00	5.2E-07
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	0.03475	0.03062	3.16E-05	4.59E-06	3.62E-05	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	4.9E-10	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	0.03726	0.03181	3.39E-05	4.76E-06	3.87E-05	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	5.3E-10	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	0.04038	0.03346	3.67E-05	5.01E-06	4.18E-05	1.4E-08	4.4E-08	3.4E-08	3.0E-08	1.3E-08	5.7E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	0.04388	0.03469	3.99E-05	5.19E-06	4.51E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	6.1E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	0.04833	0.03624	4.40E-05	5.43E-06	4.94E-05	1.7E-08	5.2E-08	4.1E-08	3.5E-08	1.6E-08	6.7E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	0.05364	0.03744	4.88E-05	5.61E-06	5.44E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	7.4E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	0.06048	0.03871	5.50E-05	5.80E-06	6.08E-05	2.1E-08	6.4E-08	5.0E-08	4.3E-08	2.0E-08	8.3E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	0.0698	0.04045	6.35E-05	6.06E-06	6.96E-05	2.4E-08	7.3E-08	5.7E-08	5.0E-08	2.2E-08	9.5E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	0.08243	0.04208	7.50E-05	6.30E-06	8.13E-05	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	0.10055	0.04377	9.15E-05	6.55E-06	9.80E-05	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.1E-08	1.3E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	0.12788	0.04482	1.16E-04	6.71E-06	1.23E-04	4.3E-08	1.3E-07	1.0E-07	8.8E-08	4.0E-08	1.7E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	0.17421	0.04612	1.59E-04	6.91E-06	1.65E-04	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	2.2E-09	5.4E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	0.26432	0.04689	2.41E-04	7.02E-06	2.48E-04	8.6E-08	2.6E-07	2.0E-07	1.8E-07	8.0E-08	3.4E-09	8.1E-08	0.0E+00	0.0E+00	0.0E+00	8.5E-08
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	0.49599	0.04817	4.51E-04	7.21E-06	4.59E-04	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	6.2E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	1.54651	0.04966	1.41E-03	7.44E-06	1.41E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	1.9E-08	4.6E-07	0.0E+00	0.0E+00	0.0E+00	4.8E-07
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	0.03307	0.02888	3.01E-05	4.32E-06	3.44E-05	1.2E-08	3.6E-08	2.8E-08	2.5E-08	1.1E-08	4.7E-10	1.1E-08	0.0E+00	0.0E+00	0.0E+00	1.2E-08
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	0.03533	0.02995	3.21E-05	4.49E-06	3.66E-05	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	5.0E-10	1.2E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	0.03814	0.03141	3.47E-05	4.70E-06	3.94E-05	1.4E-08	4.1E-08	3.3E-08	2.8E-08	1.3E-08	5.4E-10	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.3E-08
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	0.04132	0.03256	3.76E-05	4.88E-06	4.25E-05	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	5.8E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	0.04513	0.03367	4.11E-05	5.04E-06	4.61E-05	1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	6.3E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	0.04985	0.03482	4.54E-05	5.21E-06	5.06E-05	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	6.9E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	0.05575	0.03581	5.07E-05	5.36E-06	5.61E-05	1.9E-08	5.9E-08	4.6E-08	4.0E-08	1.8E-08	7.6E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	0.06365	0.0372	5.79E-05	5.57E-06	6.35E-05	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	8.6E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	0.07413	0.03834	6.75E-05	5.74E-06	7.32E-05	2.5E-08	7.7E-08	6.0E-08	5.2E-08	2.4E-08	1.0E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	0.08891	0.03961	8.09E-05	5.93E-06	8.68E-05	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	0.1107	0.04049	1.01E-04	6.06E-06	1.07E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.5E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	0.14608	0.04132	1.33E-04	6.19E-06	1.39E-04	4.8E-08	1.5E-07	1.1E-07	9.9E-08	4.5E-08	1.9E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	0.21194	0.04212	1.93E-04	6.31E-06	1.99E-04	6.9E-08	2.1E-07	1.6E-07	1.4E-07	6.4E-08	2.7E-09	6.5E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	0.37185	0.04315	3.38E-04	6.46E-06	3.45E-04	1.2E-07	3.6E-07	2.8E-07	2.5E-07	1.1E-07	4.7E-09	1.1E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	1.09073	0.04438	9.92E-04	6.65E-06	9.99E-04	3.5E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	1.4E-08	3.3E-07	0.0E+00	0.0E+00	0.0E+00	3.4E-07

PHASE 1 CONSTRUCTION MITIGATED

Mitigated	
Onsite	Offsite
9.10E-04	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Risk by Age Group 0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	0.05088	0.05221	4.63E-05	7.82E-06	5.41E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	7.4E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	0.0556	0.05656	5.06E-05	8.47E-06	5.91E-05	2.0E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	8.0E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	0.06131	0.06171	5.58E-05	9.24E-06	6.50E-05	2.3E-08	6.8E-08	5.4E-08	4.6E-08	2.1E-08	8.8E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	0.06845	0.06813	6.23E-05	1.02E-05	7.25E-05	2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	9.9E-10	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	0.07699	0.07521	7.01E-05	1.13E-05	8.13E-05	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	0.0877	0.08349	7.98E-05	1.25E-05	9.23E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	3.0E-08	1.3E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	0.1017	0.09376	9.25E-05	1.40E-05	1.07E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.4E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	0.12007	0.1059	1.09E-04	1.59E-05	1.25E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	1.7E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	0.04974	0.05002	4.53E-05	7.49E-06	5.28E-05	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	7.2E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	0.05438	0.05409	4.95E-05	8.10E-06	5.76E-05	2.0E-08	6.0E-08	4.8E-08	4.1E-08	1.8E-08	7.8E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	0.05989	0.05865	5.45E-05	8.78E-06	6.33E-05	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	8.6E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	0.06673	0.06414	6.07E-05	9.60E-06	7.03E-05	2.4E-08	7.4E-08	5.8E-08	5.0E-08	2.3E-08	9.6E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	0.07518	0.07051	6.84E-05	1.06E-05	7.90E-05	2.7E-08	8.3E-08	6.5E-08	5.6E-08	2.5E-08	1.1E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	0.0857	0.07777	7.80E-05	1.16E-05	8.96E-05	3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	0.09952	0.0866	9.06E-05	1.30E-05	1.04E-04	3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	1.4E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	0.11774	0.09691	1.07E-04	1.45E-05	1.22E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.7E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	0.04847	0.04771	4.41E-05	7.14E-06	5.12E-05	1.8E-08	5.4E-08	4.2E-08	3.7E-08	1.6E-08	7.0E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	0.05295	0.05135	4.82E-05	7.69E-06	5.59E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	7.6E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	0.05832	0.05545	5.31E-05	8.30E-06	6.14E-05	2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	8.3E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	0.06486	0.06015	5.90E-05	9.01E-06	6.80E-05	2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	9.3E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	0.0733	0.06602	6.67E-05	9.89E-06	7.66E-05	2.7E-08	8.0E-08	6.3E-08	5.5E-08	2.5E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	0.08361	0.07224	7.61E-05	1.08E-05	8.69E-05	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	0.09717	0.07972	8.84E-05	1.19E-05	1.00E-04	3.5E-08	1.0E-07	8.3E-08	7.2E-08	3.2E-08	1.4E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	0.11505	0.08809	1.05E-04	1.32E-05	1.18E-04	4.1E-08	1.2E-07	9.7E-08	8.4E-08	3.8E-08	1.6E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	0.04717	0.04549	4.29E-05	6.81E-06	4.97E-05	1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	6.8E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	0.05144	0.04861	4.68E-05	7.28E-06	5.41E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	7.4E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	0.05662	0.05221	5.15E-05	7.82E-06	5.93E-05	2.1E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	8.1E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	0.06295	0.05626	5.73E-05	8.42E-06	6.57E-05	2.3E-08	6.9E-08	5.4E-08	4.7E-08	2.1E-08	8.9E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	0.07092	0.06105	6.45E-05	9.14E-06	7.37E-05	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	1.0E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	0.08107	0.06654	7.38E-05	9.96E-06	8.37E-05	2.9E-08	8.8E-08	6.9E-08	6.0E-08	2.7E-08	1.1E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	0.09432	0.07281	8.58E-05	1.09E-05	9.67E-05	3.3E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	1.3E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	0.11192	0.07965	1.02E-04	1.19E-05	1.14E-04	3.9E-08	1.2E-07	9.4E-08	8.1E-08	3.7E-08	1.5E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
155	UCART3	439196	3762392.48	439196.01, 3762392.48	0.05825	0.05959	5.30E-05	8.92E-06	6.19E-05	2.1E-08	6.5E-08	5.1E-08	4.4E-08	2.0E-08	8.4E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
156	UCART3	439246	3762392.48	439246.01, 3762392.48	0.06385	0.06561	5.81E-05	9.83E-06	6.79E-05	2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	9.2E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
157	UCART3	439296	3762392.48	439296.01, 3762392.48	0.0705	0.07275	6.42E-05	1.09E-05	7.50E-05	2.6E-08	7.8E-08	6.2E-08	5.4E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
158	UCART3	439346	3762392.48	439346.01, 3762392.48	0.07846	0.08132	7.14E-05	1.22E-05	8.36E-05	2.9E-08	8.7E-08	6.9E-08	6.0E-08	2.7E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
159	UCART3	439396	3762392.48	439396.01, 3762392.48	0.08815	0.09176	8.02E-05	1.37E-05	9.40E-05	3.3E-08	9.8E-08	7.8E-08	6.7E-08	3.0E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
160	UCART3	439446	3762392.48	439446.01, 3762392.48	0.10019	0.10464	9.12E-05	1.57E-05	1.07E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.5E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
161	UCART3	439496	3762392.48	439496.01, 3762392.48	0.11531	0.12082	1.05E-04	1.81E-05	1.23E-04	4.3E-08	1.3E-07	1.0E-07	8.8E-08	4.0E-08	1.7E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
162	UCART3	439546	3762392.48	439546.01, 3762392.48	0.13493	0.14155	1.23E-04	2.12E-05	1.44E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	2.0E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
163	UCART3	439196	3762442.48	439196.01, 3762442.48	0.05784	0.06026	5.26E-05	9.02E-06	6.17E-05	2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	8.4E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
164	UCART3	439246	3762442.48	439246.01, 3762442.48	0.06339	0.06641	5.77E-05	9.94E-06	6.76E-05	2.3E-08	7.1E-08	5.6E-08	4.8E-08	2.2E-08	9.2E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
165	UCART3	439296	3762442.48	439296.01, 3762442.48	0.06987	0.07372	6.36E-05	1.10E-05	7.46E-05	2.6E-08	7.8E-08	6.2E-08	5.3E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
166	UCART3	439346	3762442.48	439346.01, 3762442.48	0.0777	0.08251	7.07E-05	1.24E-05	8.31E-05	2.9E-08	8.7E-08	6.9E-08	5.9E-08	2.7E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
167	UCART3	439396	3762442.48	439396.01, 3762442.48	0.08721	0.09322	7.94E-05	1.40E-05	9.33E-05	3.2E-08	9.8E-08	7.7E-08	6.7E-08	3.0E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
168	UCART3	439446	3762442.48	439446.01, 3762442.48	0.09896	0.10647	9.00E-05	1.59E-05	1.06E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.4E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
169	UCART3	439496	3762442.48	439496.01, 3762442.48	0.11386	0.12311	1.04E-04	1.84E-05	1.22E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.7E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
170	UCART3	439546	3762442.48	439546.01, 3762442.48	0.13327	0.14444	1.21E-04	2.16E-05	1.43E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	1.9E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
171	UCART3	439196	3762492.48	439196.01, 3762492.48	0.05736	0.06063	5.22E-05	9.08E-06	6.13E-05	2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	8.3E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
172	UCART3	439246	3762492.48	439246.01, 3762492.48	0.06287	0.06684	5.72E-05	1.00E-05	6.72E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.2E-08	9.1E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
173	UCART3	439296	3762492.48	439296.01, 3762492.48	0.06928	0.07423	6.30E-05	1.11E-05	7.42E-05	2.6E-08	7.8E-08	6.1E-08	5.3E-08	2.4E-08	1.0E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
174	UCART3	439346	3762492.48	439346.01, 3762492.48	0.07695	0.08312	7.00E-05	1.24E-05	8.25E-05	2.9E-08	8.6E-08	6.8E-08	5.9E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
175	UCART3	439396	3762492.48	439396.01, 3762492.48	0.08635	0.09397	7.86E-05	1.41E-05	9.26E-05	3.2E-08	9.7E-08	7.6E-08	6.6E-08	3.0E-08	1.3E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
176	UCART3	439446	3762492.48	439446.01, 3762492.48	0.09798	0.10738	8.92E-05	1.61E-05	1.05E-04	3.6E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	1.4E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
177	UCART3	439496	3762492.48	439496.01, 3762492.48	0.11256	0.1242	1.02E-04	1.86E-05	1.21E-04	4.2E-08	1.3E-07	1.0E-07	8.6E-08	3.9E-08	1.6E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
178	UCART3	439546	3762492.48	439546.01, 3762492.48	0.13163	0.14575	1.20E-04	2.18E-05	1.42E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	1.9E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
179	UCART3	439196	3762542.48	439196.01, 3762542.48	0.05682	0.06067	5.17E-05	9.09E-06	6.08E-05	2.1E-08	6.4E-08	5.0E-08	4.3E-08	2.0E-08	8.3E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
180	UCART3	439246	3762542.48	439246.01, 3762542.48	0.06227	0.06689	5.67E-05	1.00E-05	6.67E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.1E-08	9.1E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
181	UCART3	439296	3762542.48	439296.01, 3762542.48	0.06861	0.07428	6.24E-05	1.11E-05	7.36E-05	2.5E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	1.0E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
182	UCART3	439346	3762542.48	439346.01, 3762542.48	0.07625	0.08318	6.94E-05	1.25E-05	8.18E-05	2.8E-08	8.6E-08	6.8E-08	5.8E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
183	UCART3	439396	3762542.48	439396.01, 3762542.48	0.08548	0.09401	7.78E-05	1.41E-05	9.19E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	3.0E-08	1.2E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08

PHASE 1 CONSTRUCTION MITIGATED

Mitigated	
Onsite	Offsite
9.10E-04	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Risk by Age Group 0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
184	UCART3	439446	3762542.48	439446.01, 3762542.48	0.09695	0.1074	8.82E-05	1.61E-05	1.04E-04	3.6E-08	1.1E-07	8.6E-08	7.5E-08	3.4E-08	1.4E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
185	UCART3	439496	3762542.48	439496.01, 3762542.48	0.1113	0.12415	1.01E-04	1.86E-05	1.20E-04	4.1E-08	1.3E-07	9.9E-08	8.6E-08	3.9E-08	1.6E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
186	UCART3	439546	3762542.48	439546.01, 3762542.48	0.13023	0.14565	1.19E-04	2.18E-05	1.40E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	1.9E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
187	UCART3	439196	3762592.48	439196.01, 3762592.48	0.0562	0.06038	5.11E-05	9.04E-06	6.02E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	8.2E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
188	UCART3	439246	3762592.48	439246.01, 3762592.48	0.06147	0.06653	5.59E-05	9.96E-06	6.59E-05	2.3E-08	6.9E-08	5.4E-08	4.7E-08	2.1E-08	9.0E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
189	UCART3	439296	3762592.48	439296.01, 3762592.48	0.06778	0.07385	6.17E-05	1.11E-05	7.27E-05	2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	9.9E-10	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
190	UCART3	439346	3762592.48	439346.01, 3762592.48	0.07536	0.08265	6.86E-05	1.24E-05	8.09E-05	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
191	UCART3	439396	3762592.48	439396.01, 3762592.48	0.08454	0.09334	7.69E-05	1.40E-05	9.09E-05	3.1E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	1.2E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
192	UCART3	439446	3762592.48	439446.01, 3762592.48	0.09585	0.10652	8.72E-05	1.60E-05	1.03E-04	3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	1.4E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
193	UCART3	439496	3762592.48	439496.01, 3762592.48	0.11003	0.12298	1.00E-04	1.84E-05	1.19E-04	4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	1.6E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
194	UCART3	439546	3762592.48	439546.01, 3762592.48	0.12881	0.14409	1.17E-04	2.16E-05	1.39E-04	4.8E-08	1.5E-07	1.1E-07	9.9E-08	4.5E-08	1.9E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
195	UCART3	439196	3762642.48	439196.01, 3762642.48	0.05549	0.05977	5.05E-05	8.95E-06	5.94E-05	2.1E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	8.1E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
196	UCART3	439246	3762642.48	439246.01, 3762642.48	0.06058	0.06578	5.51E-05	9.85E-06	6.50E-05	2.2E-08	6.8E-08	5.4E-08	4.6E-08	2.1E-08	8.8E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
197	UCART3	439296	3762642.48	439296.01, 3762642.48	0.06697	0.07296	6.09E-05	1.09E-05	7.19E-05	2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	9.8E-10	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
198	UCART3	439346	3762642.48	439346.01, 3762642.48	0.0745	0.08155	6.78E-05	1.22E-05	8.00E-05	2.8E-08	8.4E-08	6.6E-08	5.7E-08	2.6E-08	1.1E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
199	UCART3	439396	3762642.48	439396.01, 3762642.48	0.08352	0.09196	7.60E-05	1.38E-05	8.98E-05	3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
200	UCART3	439446	3762642.48	439446.01, 3762642.48	0.09469	0.10475	8.62E-05	1.57E-05	1.02E-04	3.5E-08	1.1E-07	8.4E-08	7.3E-08	3.3E-08	1.4E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
201	UCART3	439496	3762642.48	439496.01, 3762642.48	0.10863	0.1207	9.88E-05	1.81E-05	1.17E-04	4.0E-08	1.2E-07	9.7E-08	8.4E-08	3.8E-08	1.6E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
202	UCART3	439546	3762642.48	439546.01, 3762642.48	0.1272	0.1411	1.16E-04	2.11E-05	1.37E-04	4.7E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	1.9E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
203	UCART3	439196	3762692.48	439196.01, 3762692.48	0.0546	0.05884	4.97E-05	8.81E-06	5.85E-05	2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	8.0E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
204	UCART3	439246	3762692.48	439246.01, 3762692.48	0.05974	0.06467	5.44E-05	9.68E-06	6.40E-05	2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	8.7E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
205	UCART3	439296	3762692.48	439296.01, 3762692.48	0.06576	0.07156	5.98E-05	1.07E-05	7.06E-05	2.4E-08	7.4E-08	5.8E-08	5.0E-08	2.3E-08	9.6E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
206	UCART3	439346	3762692.48	439346.01, 3762692.48	0.07316	0.07983	6.66E-05	1.20E-05	7.85E-05	2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	1.1E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
207	UCART3	439396	3762692.48	439396.01, 3762692.48	0.08234	0.08986	7.49E-05	1.35E-05	8.84E-05	3.1E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
208	UCART3	439446	3762692.48	439446.01, 3762692.48	0.09339	0.1021	8.50E-05	1.53E-05	1.00E-04	3.5E-08	1.0E-07	8.3E-08	7.2E-08	3.2E-08	1.4E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
209	UCART3	439496	3762692.48	439496.01, 3762692.48	0.10715	0.11729	9.75E-05	1.76E-05	1.15E-04	4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	1.6E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
210	UCART3	439546	3762692.48	439546.01, 3762692.48	0.12552	0.13667	1.14E-04	2.05E-05	1.35E-04	4.7E-08	1.4E-07	1.1E-07	9.6E-08	4.3E-08	1.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
211	UCART3	439196	3762742.48	439196.01, 3762742.48	0.05367	0.05759	4.88E-05	8.62E-06	5.75E-05	2.0E-08	6.0E-08	4.7E-08	4.1E-08	1.8E-08	7.8E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
212	UCART3	439246	3762742.48	439246.01, 3762742.48	0.05882	0.06321	5.35E-05	9.47E-06	6.30E-05	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	8.6E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
213	UCART3	439296	3762742.48	439296.01, 3762742.48	0.06476	0.06977	5.89E-05	1.04E-05	6.94E-05	2.4E-08	7.3E-08	5.7E-08	5.0E-08	2.2E-08	9.4E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
214	UCART3	439346	3762742.48	439346.01, 3762742.48	0.07201	0.07762	6.55E-05	1.16E-05	7.71E-05	2.7E-08	8.1E-08	6.4E-08	5.5E-08	2.5E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
215	UCART3	439396	3762742.48	439396.01, 3762742.48	0.08086	0.08708	7.36E-05	1.30E-05	8.66E-05	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	1.2E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
216	UCART3	439446	3762742.48	439446.01, 3762742.48	0.09179	0.0986	8.35E-05	1.48E-05	9.83E-05	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	1.3E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
217	UCART3	439496	3762742.48	439496.01, 3762742.48	0.10538	0.11277	9.59E-05	1.69E-05	1.13E-04	3.9E-08	1.2E-07	9.3E-08	8.1E-08	3.6E-08	1.5E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
218	UCART3	439546	3762742.48	439546.01, 3762742.48	0.12366	0.13084	1.13E-04	1.96E-05	1.32E-04	4.6E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	1.8E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
219	UCART3	439196	3762792.48	439196.01, 3762792.48	0.05261	0.05607	4.79E-05	8.40E-06	5.63E-05	1.9E-08	5.9E-08	4.6E-08	4.0E-08	1.8E-08	7.7E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
220	UCART3	439246	3762792.48	439246.01, 3762792.48	0.05787	0.06144	5.27E-05	9.20E-06	6.19E-05	2.1E-08	6.5E-08	5.1E-08	4.4E-08	2.0E-08	8.4E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
221	UCART3	439296	3762792.48	439296.01, 3762792.48	0.06359	0.06759	5.79E-05	1.01E-05	6.80E-05	2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	9.2E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
222	UCART3	439346	3762792.48	439346.01, 3762792.48	0.07062	0.0749	6.43E-05	1.12E-05	7.55E-05	2.6E-08	7.9E-08	6.2E-08	5.4E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
223	UCART3	439396	3762792.48	439396.01, 3762792.48	0.07927	0.08368	7.21E-05	1.25E-05	8.47E-05	2.9E-08	8.8E-08	7.0E-08	6.0E-08	2.7E-08	1.2E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
224	UCART3	439446	3762792.48	439446.01, 3762792.48	0.09016	0.09438	8.20E-05	1.41E-05	9.62E-05	3.3E-08	1.0E-07	7.9E-08	6.9E-08	3.1E-08	1.3E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
225	UCART3	439496	3762792.48	439496.01, 3762792.48	0.10365	0.10737	9.43E-05	1.61E-05	1.10E-04	3.8E-08	1.2E-07	9.1E-08	7.9E-08	3.5E-08	1.5E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
226	UCART3	439546	3762792.48	439546.01, 3762792.48	0.12174	0.12384	1.11E-04	1.85E-05	1.29E-04	4.5E-08	1.4E-07	1.1E-07	9.2E-08	4.2E-08	1.8E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
227	UCART3	439196	3762842.48	439196.01, 3762842.48	0.05164	0.05434	4.70E-05	8.14E-06	5.51E-05	1.9E-08	5.8E-08	4.6E-08	3.9E-08	1.8E-08	7.5E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
228	UCART3	439246	3762842.48	439246.01, 3762842.48	0.05665	0.05937	5.15E-05	8.89E-06	6.04E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	8.2E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
229	UCART3	439296	3762842.48	439296.01, 3762842.48	0.06243	0.06513	5.68E-05	9.75E-06	6.66E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.1E-08	9.1E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
230	UCART3	439346	3762842.48	439346.01, 3762842.48	0.06937	0.07189	6.31E-05	1.08E-05	7.39E-05	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	1.0E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
231	UCART3	439396	3762842.48	439396.01, 3762842.48	0.07783	0.07992	7.08E-05	1.20E-05	8.28E-05	2.9E-08	8.7E-08	6.8E-08	5.9E-08	2.7E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
232	UCART3	439446	3762842.48	439446.01, 3762842.48	0.08849	0.0896	8.05E-05	1.34E-05	9.39E-05	3.3E-08	9.8E-08	7.8E-08	6.7E-08	3.0E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
233	UCART3	439496	3762842.48	439496.01, 3762842.48	0.1019	0.1012	9.27E-05	1.52E-05	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	1.5E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
234	UCART3	439546	3762842.48	439546.01, 3762842.48	0.11983	0.11578	1.09E-04	1.73E-05	1.26E-04	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.1E-08	1.7E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	0.14565	0.1598	1.33E-04	2.39E-05	1.56E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.4E-08
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	0.17674	0.19277	1.61E-04	2.89E-05	1.90E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	6.2E-08	0.0E+00	0.0E+00	0.0E+00	6.5E-08
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	0.22256	0.23797	2.03E-04	3.56E-05	2.38E-04	8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	3.2E-09	7.8E-08	0.0E+00	0.0E+00	0.0E+00	8.1E-08
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	0.29634	0.30255	2.70E-04	4.53E-05	3.15E-04	1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	4.3E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	0.43239	0.40033	3.93E-04	5.99E-05	4.53E-04	1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.5E-07	6.2E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.6E-07
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	0.75883	0.5639	6.90E-04	8.44E-05	7.75E-04	2.7E-07	8.1E-07	6.4E-07	5.5E-07	2.5E-07	1.1E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	2.22006	0.89698	2.02E-03	1.34E-04	2.15E-03	7.5E-07	2.3E-06	1.8E-06	1.5E-06	6.9E-07	2.9E-08	7.1E-07	0.0E+00	0.0E+00	0.0E+00	7.4E-07
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	0.14403	0.16036	1.31E-04	2.40E-05	1.55E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	2.1E-09	5.1E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	0.17495	0.19343	1.59E-04	2.90E-05	1.88E-04	6.5E-08	2.0E-07	1.6E-07	1.3E-07	6.0E-08	2.6E-09	6.2E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	0.22032	0.23865	2.00E-04	3.57E-05	2.36E-04	8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	3.2E-09	7.8E-08	0.0E+00	0.0E+00	0.0E+00	8.1E-08

PHASE 1 CONSTRUCTION MITIGATED

Mitigated	
Onsite	Offsite
9.10E-04	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	0.29328	0.30312	2.67E-04	4.54E-05	3.12E-04	1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	4.2E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	0.42861	0.40084	3.90E-04	6.00E-05	4.50E-04	1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.4E-07	6.1E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	0.75386	0.56454	6.86E-04	8.45E-05	7.71E-04	2.7E-07	8.1E-07	6.4E-07	5.5E-07	2.5E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	2.20117	0.89566	2.00E-03	1.34E-04	2.14E-03	7.4E-07	2.2E-06	1.8E-06	1.5E-06	6.9E-07	2.9E-08	7.0E-07	0.0E+00	0.0E+00	0.0E+00	7.3E-07
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	0.14246	0.15925	1.30E-04	2.38E-05	1.53E-04	5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	2.1E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	0.17307	0.19186	1.57E-04	2.87E-05	1.86E-04	6.4E-08	1.9E-07	1.5E-07	1.3E-07	6.0E-08	2.5E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.4E-08
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	0.21802	0.23646	1.98E-04	3.54E-05	2.34E-04	8.1E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	3.2E-09	7.7E-08	0.0E+00	0.0E+00	0.0E+00	8.0E-08
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	0.29066	0.30015	2.64E-04	4.49E-05	3.09E-04	1.1E-07	3.2E-07	2.6E-07	2.2E-07	9.9E-08	4.2E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	0.42555	0.39664	3.87E-04	5.94E-05	4.47E-04	1.5E-07	4.7E-07	3.7E-07	3.2E-07	1.4E-07	6.1E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	0.74878	0.55744	6.81E-04	8.35E-05	7.65E-04	2.6E-07	8.0E-07	6.3E-07	5.5E-07	2.5E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	2.1867	0.88012	1.99E-03	1.32E-04	2.12E-03	7.3E-07	2.2E-06	1.8E-06	1.5E-06	6.8E-07	2.9E-08	7.0E-07	0.0E+00	0.0E+00	0.0E+00	7.3E-07
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	0.14082	0.15648	1.28E-04	2.34E-05	1.52E-04	5.2E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	2.1E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	0.17109	0.18815	1.56E-04	2.82E-05	1.84E-04	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	2.5E-09	6.0E-08	0.0E+00	0.0E+00	0.0E+00	6.3E-08
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	0.21604	0.23154	1.97E-04	3.47E-05	2.31E-04	8.0E-08	2.4E-07	1.9E-07	1.7E-07	7.4E-08	3.1E-09	7.6E-08	0.0E+00	0.0E+00	0.0E+00	7.9E-08
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	0.2883	0.29344	2.62E-04	4.39E-05	3.06E-04	1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.8E-08	4.2E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.0E-07
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	0.42274	0.38754	3.85E-04	5.80E-05	4.43E-04	1.5E-07	4.6E-07	3.7E-07	3.2E-07	1.4E-07	6.0E-09	1.5E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	0.74378	0.54409	6.77E-04	8.15E-05	7.58E-04	2.6E-07	7.9E-07	6.3E-07	5.4E-07	2.4E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	2.17025	0.85534	1.97E-03	1.28E-04	2.10E-03	7.3E-07	2.2E-06	1.7E-06	1.5E-06	6.8E-07	2.9E-08	6.9E-07	0.0E+00	0.0E+00	0.0E+00	7.2E-07
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	0.13905	0.15207	1.27E-04	2.28E-05	1.49E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.1E-08
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	0.16874	0.18209	1.54E-04	2.73E-05	1.81E-04	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	2.5E-09	5.9E-08	0.0E+00	0.0E+00	0.0E+00	6.2E-08
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	0.21355	0.22352	1.94E-04	3.35E-05	2.28E-04	7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	3.1E-09	7.5E-08	0.0E+00	0.0E+00	0.0E+00	7.8E-08
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	0.28564	0.28276	2.60E-04	4.23E-05	3.02E-04	1.0E-07	3.2E-07	2.5E-07	2.2E-07	9.7E-08	4.1E-09	9.9E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	0.41877	0.37272	3.81E-04	5.58E-05	4.37E-04	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	5.9E-09	1.4E-07	0.0E+00	0.0E+00	0.0E+00	1.5E-07
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	0.7384	0.52421	6.72E-04	7.85E-05	7.50E-04	2.6E-07	7.8E-07	6.2E-07	5.4E-07	2.4E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	2.14949	0.8291	1.96E-03	1.24E-04	2.08E-03	7.2E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	2.8E-08	6.8E-07	0.0E+00	0.0E+00	0.0E+00	7.1E-07
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	0.0398	0.02832	3.62E-05	4.24E-06	4.05E-05	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	5.5E-10	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	0.04268	0.02939	3.88E-05	4.40E-06	4.32E-05	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	5.9E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	0.04605	0.03053	4.19E-05	4.57E-06	4.65E-05	1.6E-08	4.9E-08	3.8E-08	3.3E-08	1.5E-08	6.3E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	0.04997	0.03171	4.55E-05	4.75E-06	5.02E-05	1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	6.8E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	0.05464	0.03292	4.97E-05	4.93E-06	5.46E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.8E-08	7.4E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	0.06026	0.03415	5.48E-05	5.11E-06	5.99E-05	2.1E-08	6.3E-08	4.9E-08	4.3E-08	1.9E-08	8.2E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	0.06717	0.03539	6.11E-05	5.30E-06	6.64E-05	2.3E-08	6.9E-08	5.5E-08	4.7E-08	2.1E-08	9.0E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	0.07594	0.03663	6.91E-05	5.49E-06	7.46E-05	2.6E-08	7.8E-08	6.2E-08	5.3E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	0.08732	0.03782	7.95E-05	5.66E-06	8.51E-05	2.9E-08	8.9E-08	7.0E-08	6.1E-08	2.7E-08	1.2E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	0.04143	0.02949	3.77E-05	4.42E-06	4.21E-05	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	5.7E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	0.04461	0.0307	4.06E-05	4.60E-06	4.52E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.5E-08	6.1E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	0.04834	0.032	4.40E-05	4.79E-06	4.88E-05	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	6.6E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	0.05267	0.03329	4.79E-05	4.99E-06	5.29E-05	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	7.2E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	0.05786	0.03464	5.26E-05	5.19E-06	5.78E-05	2.0E-08	6.0E-08	4.8E-08	4.1E-08	1.9E-08	7.9E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	0.0642	0.03602	5.84E-05	5.39E-06	6.38E-05	2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.0E-08	8.7E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	0.07211	0.03743	6.56E-05	5.61E-06	7.12E-05	2.5E-08	7.4E-08	5.9E-08	5.1E-08	2.3E-08	9.7E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	0.08233	0.03889	7.49E-05	5.82E-06	8.07E-05	2.8E-08	8.4E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	0.09586	0.0403	8.72E-05	6.03E-06	9.33E-05	3.2E-08	9.7E-08	7.7E-08	6.7E-08	3.0E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	0.04303	0.03071	3.92E-05	4.60E-06	4.38E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	6.0E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	0.04647	0.03205	4.23E-05	4.80E-06	4.71E-05	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	6.4E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	0.0505	0.03347	4.60E-05	5.01E-06	5.10E-05	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	6.9E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	0.05525	0.03492	5.03E-05	5.23E-06	5.55E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	7.5E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	0.06096	0.03643	5.55E-05	5.46E-06	6.09E-05	2.1E-08	6.4E-08	5.0E-08	4.4E-08	2.0E-08	8.3E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	0.06802	0.03804	6.19E-05	5.70E-06	6.76E-05	2.3E-08	7.1E-08	5.6E-08	4.8E-08	2.2E-08	9.2E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	0.0769	0.03968	7.00E-05	5.94E-06	7.59E-05	2.6E-08	7.9E-08	6.3E-08	5.4E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	0.08842	0.04135	8.05E-05	6.19E-06	8.66E-05	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	1.2E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	0.10391	0.04304	9.46E-05	6.45E-06	1.01E-04	3.5E-08	1.1E-07	8.3E-08	7.2E-08	3.2E-08	1.4E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	0.04457	0.03199	4.06E-05	4.79E-06	4.53E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.5E-08	6.2E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	0.04824	0.03345	4.39E-05	5.01E-06	4.89E-05	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	6.7E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	0.05258	0.03503	4.78E-05	5.25E-06	5.31E-05	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	7.2E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	0.05774	0.0367	5.25E-05	5.50E-06	5.80E-05	2.0E-08	6.1E-08	4.8E-08	4.1E-08	1.9E-08	7.9E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	0.06394	0.03841	5.82E-05	5.75E-06	6.39E-05	2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	8.7E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	0.07166	0.04026	6.52E-05	6.03E-06	7.12E-05	2.5E-08	7.4E-08	5.9E-08	5.1E-08	2.3E-08	9.7E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	0.08142	0.04218	7.41E-05	6.32E-06	8.04E-05	2.8E-08	8.4E-08	6.6E-08	5.7E-08	2.6E-08	1.1E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	0.09408	0.04411	8.56E-05	6.61E-06	9.22E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	3.0E-08	1.3E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	0.11121	0.04612	1.01E-04	6.91E-06	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	1.5E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08

PHASE 1 CONSTRUCTION MITIGATED

Mitigated	
Onsite	Offsite
9.10E-04	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	0.04603	0.03333	4.19E-05	4.99E-06	4.69E-05	1.6E-08	4.9E-08	3.9E-08	3.3E-08	1.5E-08	6.4E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	0.04994	0.03496	4.54E-05	5.24E-06	5.07E-05	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	6.9E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	0.05457	0.03672	4.97E-05	5.50E-06	5.52E-05	1.9E-08	5.8E-08	4.6E-08	3.9E-08	1.8E-08	7.5E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	0.0601	0.0386	5.47E-05	5.78E-06	6.05E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	8.2E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	0.06677	0.04057	6.08E-05	6.08E-06	6.68E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.1E-08	9.1E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	0.07506	0.04269	6.83E-05	6.39E-06	7.47E-05	2.6E-08	7.8E-08	6.2E-08	5.3E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	0.08555	0.0449	7.78E-05	6.72E-06	8.46E-05	2.9E-08	8.8E-08	7.0E-08	6.0E-08	2.7E-08	1.2E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	0.09922	0.04722	9.03E-05	7.07E-06	9.74E-05	3.4E-08	1.0E-07	8.0E-08	7.0E-08	3.1E-08	1.3E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	0.11763	0.0496	1.07E-04	7.43E-06	1.14E-04	4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	1.6E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
315	UCART5	439152.4	3761698.92	439152.35, 3761698.92	0.04741	0.03473	4.31E-05	5.20E-06	4.83E-05	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	6.6E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
316	UCART5	439202.4	3761698.92	439202.35, 3761698.92	0.05154	0.03652	4.69E-05	5.47E-06	5.24E-05	1.8E-08	5.5E-08	4.3E-08	3.7E-08	1.7E-08	7.1E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
317	UCART5	439252.4	3761698.92	439252.35, 3761698.92	0.0564	0.03846	5.13E-05	5.76E-06	5.71E-05	2.0E-08	6.0E-08	4.7E-08	4.1E-08	1.8E-08	7.8E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
318	UCART5	439302.4	3761698.92	439302.35, 3761698.92	0.06225	0.04058	5.66E-05	6.08E-06	6.27E-05	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	8.5E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
319	UCART5	439352.4	3761698.92	439352.35, 3761698.92	0.06936	0.04287	6.31E-05	6.42E-06	6.95E-05	2.4E-08	7.3E-08	5.7E-08	5.0E-08	2.2E-08	9.5E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
320	UCART5	439402.4	3761698.92	439402.35, 3761698.92	0.07816	0.04533	7.11E-05	6.79E-06	7.79E-05	2.7E-08	8.1E-08	6.4E-08	5.6E-08	2.5E-08	1.1E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	0.08923	0.04785	8.12E-05	7.17E-06	8.84E-05	3.1E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	0.1037	0.05061	9.44E-05	7.58E-06	1.02E-04	3.5E-08	1.1E-07	8.4E-08	7.3E-08	3.3E-08	1.4E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	0.1231	0.05347	1.12E-04	8.01E-06	1.20E-04	4.2E-08	1.3E-07	9.9E-08	8.6E-08	3.9E-08	1.6E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	0.04869	0.03618	4.43E-05	5.42E-06	4.97E-05	1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	6.8E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	0.05302	0.03818	4.82E-05	5.72E-06	5.40E-05	1.9E-08	5.6E-08	4.5E-08	3.9E-08	1.7E-08	7.3E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	0.0581	0.04032	5.29E-05	6.04E-06	5.89E-05	2.0E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	8.0E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	0.06424	0.04271	5.85E-05	6.40E-06	6.48E-05	2.2E-08	6.8E-08	5.4E-08	4.6E-08	2.1E-08	8.8E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	0.07168	0.04529	6.52E-05	6.78E-06	7.20E-05	2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	9.8E-10	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	0.08088	0.04808	7.36E-05	7.20E-06	8.08E-05	2.8E-08	8.4E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	0.09249	0.05106	8.42E-05	7.65E-06	9.18E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	2.9E-08	1.2E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	0.10753	0.05424	9.78E-05	8.12E-06	1.06E-04	3.7E-08	1.1E-07	8.7E-08	7.6E-08	3.4E-08	1.4E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	0.12773	0.05771	1.16E-04	8.64E-06	1.25E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	1.7E-09	4.1E-08	0.0E+00	0.0E+00	0.0E+00	4.3E-08
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	0.04987	0.03769	4.54E-05	5.64E-06	5.10E-05	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	6.9E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	0.05438	0.03991	4.95E-05	5.98E-06	5.55E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	7.5E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	0.05969	0.04232	5.43E-05	6.34E-06	6.07E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	8.2E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	0.06606	0.04501	6.01E-05	6.74E-06	6.69E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.1E-08	9.1E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	0.07377	0.04789	6.71E-05	7.17E-06	7.43E-05	2.6E-08	7.8E-08	6.1E-08	5.3E-08	2.4E-08	1.0E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	0.08332	0.05108	7.58E-05	7.65E-06	8.35E-05	2.9E-08	8.7E-08	6.9E-08	6.0E-08	2.7E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	0.09538	0.05461	8.68E-05	8.18E-06	9.50E-05	3.3E-08	9.9E-08	7.8E-08	6.8E-08	3.1E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	0.1109	0.05833	1.01E-04	8.73E-06	1.10E-04	3.8E-08	1.1E-07	9.1E-08	7.8E-08	3.5E-08	1.5E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	0.13169	0.0625	1.20E-04	9.36E-06	1.29E-04	4.5E-08	1.4E-07	1.1E-07	9.2E-08	4.1E-08	1.8E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	0.05093	0.03926	4.63E-05	5.88E-06	5.22E-05	1.8E-08	5.5E-08	4.3E-08	3.7E-08	1.7E-08	7.1E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	0.05559	0.04171	5.06E-05	6.25E-06	5.68E-05	2.0E-08	5.9E-08	4.7E-08	4.1E-08	1.8E-08	7.7E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	0.06108	0.04437	5.56E-05	6.64E-06	6.22E-05	2.2E-08	6.5E-08	5.1E-08	4.4E-08	2.0E-08	8.5E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	0.06766	0.04737	6.16E-05	7.09E-06	6.87E-05	2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	9.3E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	0.07561	0.05063	6.88E-05	7.58E-06	7.64E-05	2.6E-08	8.0E-08	6.3E-08	5.5E-08	2.5E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	0.08548	0.05436	7.78E-05	8.14E-06	8.59E-05	3.0E-08	9.0E-08	7.1E-08	6.1E-08	2.8E-08	1.2E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	0.09786	0.05842	8.90E-05	8.75E-06	9.78E-05	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.1E-08	1.3E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	0.11379	0.06282	1.04E-04	9.41E-06	1.13E-04	3.9E-08	1.2E-07	9.3E-08	8.1E-08	3.6E-08	1.5E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.9E-08
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	0.13505	0.06784	1.23E-04	1.02E-05	1.33E-04	4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	1.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	0.05187	0.0409	4.72E-05	6.12E-06	5.33E-05	1.8E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	7.3E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	0.05666	0.04358	5.16E-05	6.53E-06	5.81E-05	2.0E-08	6.1E-08	4.8E-08	4.1E-08	1.9E-08	7.9E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	0.0623	0.04654	5.67E-05	6.97E-06	6.37E-05	2.2E-08	6.7E-08	5.3E-08	4.5E-08	2.0E-08	8.7E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	0.06906	0.04992	6.28E-05	7.48E-06	7.03E-05	2.4E-08	7.3E-08	5.8E-08	5.0E-08	2.3E-08	9.6E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	0.07724	0.05365	7.03E-05	8.03E-06	7.83E-05	2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	1.1E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	0.08732	0.05783	7.95E-05	8.66E-06	8.81E-05	3.1E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	0.09997	0.06261	9.10E-05	9.38E-06	1.00E-04	3.5E-08	1.0E-07	8.3E-08	7.2E-08	3.2E-08	1.4E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	0.11627	0.06792	1.06E-04	1.02E-05	1.16E-04	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	1.6E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	0.13785	0.07388	1.25E-04	1.11E-05	1.36E-04	4.7E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	1.9E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.7E-08
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	0.05267	0.04258	4.79E-05	6.38E-06	5.43E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	7.4E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	0.05757	0.04551	5.24E-05	6.82E-06	5.92E-05	2.0E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	8.1E-10	1.9E-08	0.0E+00	0.0E+00	0.0E+00	2.0E-08
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	0.06333	0.04877	5.76E-05	7.30E-06	6.49E-05	2.2E-08	6.8E-08	5.4E-08	4.6E-08	2.1E-08	8.8E-10	2.1E-08	0.0E+00	0.0E+00	0.0E+00	2.2E-08
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	0.07023	0.05256	6.39E-05	7.87E-06	7.18E-05	2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	9.8E-10	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	0.07857	0.05679	7.15E-05	8.50E-06	8.00E-05	2.8E-08	8.4E-08	6.6E-08	5.7E-08	2.6E-08	1.1E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	0.08884	0.06155	8.08E-05	9.22E-06	9.01E-05	3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	1.2E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	0.10169	0.06708	9.25E-05	1.00E-05	1.03E-04	3.6E-08	1.1E-07	8.5E-08	7.3E-08	3.3E-08	1.4E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08

PHASE 1 CONSTRUCTION MITIGATED

Mitigated	
Onsite	Offsite
9.10E-04	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Mitigated Onsite	Concentration (AVERAGE CONC) [ug/m^3 Mitigated Offsite	Concentration (AVERAGE CONC) [ug/m^3 Unmitigated Onsite	Concentration (AVERAGE CONC) [ug/m^3 Unmitigated Offsite	Concentration (AVERAGE CONC) [ug/m^3 Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	0.1182	0.07336	1.08E-04	1.10E-05	1.19E-04	4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	1.6E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	0.14003	0.08054	1.27E-04	1.21E-05	1.39E-04	4.8E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	1.9E-09	4.6E-08	0.0E+00	0.0E+00	0.0E+00	4.8E-08
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	0.05333	0.04428	4.85E-05	6.63E-06	5.52E-05	1.9E-08	5.8E-08	4.6E-08	3.9E-08	1.8E-08	7.5E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	0.05831	0.04747	5.31E-05	7.11E-06	6.02E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	8.2E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	0.06416	0.05107	5.84E-05	7.65E-06	6.60E-05	2.3E-08	6.9E-08	5.5E-08	4.7E-08	2.1E-08	9.0E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	0.07116	0.05528	6.48E-05	8.28E-06	7.30E-05	2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	9.9E-10	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	0.07961	0.06006	7.24E-05	8.99E-06	8.14E-05	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	0.09003	0.06546	8.19E-05	9.80E-06	9.17E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	2.9E-08	1.2E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	0.10306	0.07178	9.38E-05	1.07E-05	1.05E-04	3.6E-08	1.1E-07	8.6E-08	7.5E-08	3.4E-08	1.4E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	0.11977	0.07912	1.09E-04	1.18E-05	1.21E-04	4.2E-08	1.3E-07	1.0E-07	8.6E-08	3.9E-08	1.6E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	0.14183	0.08772	1.29E-04	1.31E-05	1.42E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	1.9E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	0.05385	0.04598	4.90E-05	6.89E-06	5.59E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	7.6E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	0.05887	0.0495	5.36E-05	7.41E-06	6.10E-05	2.1E-08	6.4E-08	5.0E-08	4.4E-08	2.0E-08	8.3E-10	2.0E-08	0.0E+00	0.0E+00	0.0E+00	2.1E-08
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	0.06479	0.05351	5.90E-05	8.01E-06	6.70E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.2E-08	9.1E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	0.07185	0.05811	6.54E-05	8.70E-06	7.41E-05	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	1.0E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	0.08038	0.06341	7.31E-05	9.50E-06	8.26E-05	2.9E-08	8.6E-08	6.8E-08	5.9E-08	2.7E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	0.09087	0.06956	8.27E-05	1.04E-05	9.31E-05	3.2E-08	9.7E-08	7.7E-08	6.7E-08	3.0E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	0.10397	0.0768	9.46E-05	1.15E-05	1.06E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.4E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.6E-08
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	0.12076	0.08534	1.10E-04	1.28E-05	1.23E-04	4.2E-08	1.3E-07	1.0E-07	8.8E-08	3.9E-08	1.7E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	0.14293	0.09553	1.30E-04	1.43E-05	1.44E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	2.0E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	0.10074	0.03781	9.17E-05	5.66E-06	9.73E-05	3.4E-08	1.0E-07	8.0E-08	7.0E-08	3.1E-08	1.3E-09	3.2E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	0.12189	0.03875	1.11E-04	5.80E-06	1.17E-04	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	1.6E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	0.15432	0.0396	1.40E-04	5.93E-06	1.46E-04	5.1E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	2.0E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.0E-08
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	0.20993	0.04036	1.91E-04	6.04E-06	1.97E-04	6.8E-08	2.1E-07	1.6E-07	1.4E-07	6.3E-08	2.7E-09	6.5E-08	0.0E+00	0.0E+00	0.0E+00	6.7E-08
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	0.32296	0.04102	2.94E-04	6.14E-06	3.00E-04	1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	4.1E-09	9.9E-08	0.0E+00	0.0E+00	0.0E+00	1.0E-07
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	0.58806	0.04165	5.35E-04	6.24E-06	5.41E-04	1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.7E-07	7.4E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	0.11407	0.04041	1.04E-04	6.05E-06	1.10E-04	3.8E-08	1.1E-07	9.1E-08	7.8E-08	3.5E-08	1.5E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	0.14217	0.04153	1.29E-04	6.22E-06	1.36E-04	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	1.8E-09	4.5E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	0.1887	0.04257	1.72E-04	6.37E-06	1.78E-04	6.2E-08	1.9E-07	1.5E-07	1.3E-07	5.7E-08	2.4E-09	5.8E-08	0.0E+00	0.0E+00	0.0E+00	6.1E-08
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	0.27966	0.0435	2.54E-04	6.51E-06	2.61E-04	9.0E-08	2.7E-07	2.2E-07	1.9E-07	8.4E-08	3.5E-09	8.6E-08	0.0E+00	0.0E+00	0.0E+00	8.9E-08
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	0.52472	0.0443	4.77E-04	6.63E-06	4.84E-04	1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	6.6E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	2.03552	0.04509	1.85E-03	6.75E-06	1.86E-03	6.4E-07	1.9E-06	1.5E-06	1.3E-06	6.0E-07	2.5E-08	6.1E-07	0.0E+00	0.0E+00	0.0E+00	6.4E-07
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	0.12694	0.04332	1.16E-04	6.49E-06	1.22E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.7E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	0.16141	0.04469	1.47E-04	6.69E-06	1.54E-04	5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	2.1E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.3E-08
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	0.22017	0.04596	2.00E-04	6.88E-06	2.07E-04	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	2.8E-09	6.8E-08	0.0E+00	0.0E+00	0.0E+00	7.1E-08
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	0.33883	0.04714	3.08E-04	7.06E-06	3.15E-04	1.1E-07	3.3E-07	2.6E-07	2.3E-07	1.0E-07	4.3E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	0.66343	0.04816	6.04E-04	7.21E-06	6.11E-04	2.1E-07	6.4E-07	5.0E-07	4.4E-07	2.0E-07	8.3E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	2.44777	0.0491	2.23E-03	7.35E-06	2.23E-03	7.7E-07	2.3E-06	1.8E-06	1.6E-06	7.2E-07	3.0E-08	7.3E-07	0.0E+00	0.0E+00	0.0E+00	7.6E-07
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	0.13843	0.04661	1.26E-04	6.98E-06	1.33E-04	4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	1.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	0.17772	0.0483	1.62E-04	7.23E-06	1.69E-04	5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	2.3E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.8E-08
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	0.2445	0.04989	2.22E-04	7.47E-06	2.30E-04	8.0E-08	2.4E-07	1.9E-07	1.6E-07	7.4E-08	3.1E-09	7.6E-08	0.0E+00	0.0E+00	0.0E+00	7.9E-08
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	0.37695	0.05136	3.43E-04	7.69E-06	3.51E-04	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	4.8E-09	1.2E-07	0.0E+00	0.0E+00	0.0E+00	1.2E-07
409	UCART6	439816.6	3761570.65	439816.61, 3761570.65	0.72356	0.05266	6.58E-04	7.89E-06	6.66E-04	2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.1E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
410	UCART6	439866.6	3761570.65	439866.61, 3761570.65	2.49639	0.05381	2.27E-03	8.06E-06	2.28E-03	7.9E-07	2.4E-06	1.9E-06	1.6E-06	7.3E-07	3.1E-08	7.5E-07	0.0E+00	0.0E+00	0.0E+00	7.8E-07
411	UCART7	440451.1	3762893.83	440451.14, 3762893.83	0.13084	0.71336	1.19E-04	1.07E-04	2.26E-04	7.8E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	3.1E-09	7.4E-08	0.0E+00	0.0E+00	0.0E+00	7.7E-08
412	UCART7	440501.1	3762893.83	440501.14, 3762893.83	0.11831	0.55696	1.08E-04	8.34E-05	1.91E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	6.3E-08	0.0E+00	0.0E+00	0.0E+00	6.5E-08
413	UCART7	440551.1	3762893.83	440551.14, 3762893.83	0.10799	0.45329	9.83E-05	6.79E-05	1.66E-04	5.8E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	2.3E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
414	UCART7	440601.1	3762893.83	440601.14, 3762893.83	0.09918	0.37853	9.02E-05	5.67E-05	1.47E-04	5.1E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	2.0E-09	4.8E-08	0.0E+00	0.0E+00	0.0E+00	5.0E-08
415	UCART7	440651.1	3762893.83	440651.14, 3762893.83	0.09175	0.32264	8.35E-05	4.83E-05	1.32E-04	4.6E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	1.8E-09	4.3E-08	0.0E+00	0.0E+00	0.0E+00	4.5E-08
416	UCART7	440701.1	3762893.83	440701.14, 3762893.83	0.08541	0.27922	7.77E-05	4.18E-05	1.20E-04	4.1E-08	1.2E-07	9.9E-08	8.5E-08	3.8E-08	1.6E-09	3.9E-08	0.0E+00	0.0E+00	0.0E+00	4.1E-08
417	UCART7	440751.1	3762893.83	440751.14, 3762893.83	0.0801	0.24509	7.29E-05	3.67E-05	1.10E-04	3.8E-08	1.1E-07	9.0E-08	7.8E-08	3.5E-08	1.5E-09	3.6E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
418	UCART7	440801.1	3762893.83	440801.14, 3762893.83	0.07536	0.21685	6.86E-05	3.25E-05	1.01E-04	3.5E-08	1.1E-07	8.3E-08	7.2E-08	3.2E-08	1.4E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
419	UCART7	440851.1	3762893.83	440851.14, 3762893.83	0.07133	0.1937	6.49E-05	2.90E-05	9.39E-05	3.3E-08	9.8E-08	7.8E-08	6.7E-08	3.0E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
420	UCART7	440451.1	3762943.83	440451.14, 3762943.83	0.12839	0.48441	1.17E-04	7.25E-05	1.89E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	2.6E-09	6.2E-08	0.0E+00	0.0E+00	0.0E+00	6.5E-08
421	UCART7	440501.1	3762943.83	440501.14, 3762943.83	0.11578	0.41652	1.05E-04	6.24E-05	1.68E-04	5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	2.3E-09	5.5E-08	0.0E+00	0.0E+00	0.0E+00	5.7E-08
422	UCART7	440551.1	3762943.83	440551.14, 3762943.83	0.10554	0.36019	9.60E-05	5.39E-05	1.50E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	2.0E-09	4.9E-08	0.0E+00	0.0E+00	0.0E+00	5.1E-08
423	UCART7	440601.1	3762943.83	440601.14, 3762943.83	0.09674	0.31276	8.80E-05	4.68E-05	1.35E-04	4.7E-08	1.4E-07	1.1E-07	9.6E-08	4.3E-08	1.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
424	UCART7	440651.1	3762943.83	440651.14, 3762943.83	0.08948	0.27484	8.14E-05	4.12E-05	1.23E-04	4.2E-08	1.3E-07	1.0E-07	8.8E-08	3.9E-08	1.7E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
425	UCART7	440701.1	3762943.83	440701.14, 3762943.83	0.08327	0.24346	7.58E-05	3.65E-05	1.12E-04	3.9E-08	1.2E-07	9.3E-08	8.0E-08	3.6E-08	1.5E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
426	UCART7	440751.1	3762943.83	440751.14, 3762943.83	0.07808	0.21786	7.10E-05	3.26E-05	1.04E-04	3.6E-08	1.1E-07	8.6E-08	7.4E-08	3.3E-08	1.4E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
427	UCART7	440801.1	3762943.83	440801.14, 3762943.83	0.07322	0.19498	6.66E-05	2.92E-05	9.58E-05	3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08

PHASE 1 CONSTRUCTION MITIGATED

Mitigated	
Onsite	Offsite
9.10E-04	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
428	UCART7	440851.1	3762943.83	440851.14, 3762943.83	0.06894	0.17557	6.27E-05	2.63E-05	8.90E-05	3.1E-08	9.3E-08	7.3E-08	6.4E-08	2.9E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.0E-08
429	UCART8	441116.7	3763135.31	441116.67, 3763135.31	0.04713	0.08195	4.29E-05	1.23E-05	5.52E-05	1.9E-08	5.8E-08	4.6E-08	3.9E-08	1.8E-08	7.5E-10	1.8E-08	0.0E+00	0.0E+00	0.0E+00	1.9E-08
430	UCART8	441166.7	3763135.31	441166.67, 3763135.31	0.04523	0.078	4.12E-05	1.17E-05	5.28E-05	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	7.2E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
431	UCART8	441116.7	3763185.31	441116.67, 3763185.31	0.0456	0.07457	4.15E-05	1.12E-05	5.27E-05	1.8E-08	5.5E-08	4.3E-08	3.8E-08	1.7E-08	7.2E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.8E-08
432	UCART8	441166.7	3763185.31	441166.67, 3763185.31	0.04378	0.07151	3.98E-05	1.07E-05	5.05E-05	1.7E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	6.9E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
433	UCART8	441116.7	3763235.31	441116.67, 3763235.31	0.04411	0.06769	4.01E-05	1.01E-05	5.03E-05	1.7E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	6.8E-10	1.7E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
434	UCART8	441166.7	3763235.31	441166.67, 3763235.31	0.04233	0.06531	3.85E-05	9.78E-06	4.83E-05	1.7E-08	5.0E-08	4.0E-08	3.5E-08	1.6E-08	6.6E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.7E-08
435	UCART8	441116.7	3763285.31	441116.67, 3763285.31	0.04247	0.06091	3.86E-05	9.12E-06	4.78E-05	1.7E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	6.5E-10	1.6E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
436	UCART8	441166.7	3763285.31	441166.67, 3763285.31	0.04083	0.05934	3.72E-05	8.89E-06	4.60E-05	1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	6.3E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
437	UCART8	441116.7	3763335.31	441116.67, 3763335.31	0.04085	0.05488	3.72E-05	8.22E-06	4.54E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.5E-08	6.2E-10	1.5E-08	0.0E+00	0.0E+00	0.0E+00	1.6E-08
438	UCART8	441166.7	3763335.31	441166.67, 3763335.31	0.03927	0.0537	3.57E-05	8.04E-06	4.38E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	6.0E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
439	UCART8	441116.7	3763385.31	441116.67, 3763385.31	0.03923	0.04952	3.57E-05	7.42E-06	4.31E-05	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	5.9E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.5E-08
440	UCART8	441166.7	3763385.31	441166.67, 3763385.31	0.03768	0.04855	3.43E-05	7.27E-06	4.16E-05	1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	5.7E-10	1.4E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
441	UCART8	441116.7	3763435.31	441116.67, 3763435.31	0.03755	0.0447	3.42E-05	6.69E-06	4.09E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	5.6E-10	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
442	UCART8	441166.7	3763435.31	441166.67, 3763435.31	0.03614	0.04407	3.29E-05	6.60E-06	3.95E-05	1.4E-08	4.1E-08	3.3E-08	2.8E-08	1.3E-08	5.4E-10	1.3E-08	0.0E+00	0.0E+00	0.0E+00	1.4E-08
443	UCART9	440433.4	3762815.13	440433.43, 3762815.13	0.14029	1.21998	1.28E-04	1.83E-04	3.10E-04	1.1E-07	3.2E-07	2.6E-07	2.2E-07	1.0E-07	4.2E-09	1.0E-07	0.0E+00	0.0E+00	0.0E+00	1.1E-07
444	UCART9	440483.4	3762815.13	440483.43, 3762815.13	0.12676	0.83936	1.15E-04	1.26E-04	2.41E-04	8.3E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	3.3E-09	7.9E-08	0.0E+00	0.0E+00	0.0E+00	8.2E-08
445	UCART9	440533.4	3762815.13	440533.43, 3762815.13	0.11568	0.63367	1.05E-04	9.49E-05	2.00E-04	6.9E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	2.7E-09	6.6E-08	0.0E+00	0.0E+00	0.0E+00	6.8E-08
446	UCART9	440583.4	3762815.13	440583.43, 3762815.13	0.10621	0.50284	9.66E-05	7.53E-05	1.72E-04	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	2.3E-09	5.6E-08	0.0E+00	0.0E+00	0.0E+00	5.9E-08
447	UCART9	440633.4	3762815.13	440633.43, 3762815.13	0.09835	0.4129	8.95E-05	6.18E-05	1.51E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.9E-08	2.1E-09	5.0E-08	0.0E+00	0.0E+00	0.0E+00	5.2E-08
448	UCART9	440683.4	3762815.13	440683.43, 3762815.13	0.09163	0.34695	8.34E-05	5.20E-05	1.35E-04	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.3E-08	1.8E-09	4.4E-08	0.0E+00	0.0E+00	0.0E+00	4.6E-08
449	UCART9	440733.4	3762815.13	440733.43, 3762815.13	0.08575	0.29642	7.80E-05	4.44E-05	1.22E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	1.7E-09	4.0E-08	0.0E+00	0.0E+00	0.0E+00	4.2E-08
450	UCART9	440783.4	3762815.13	440783.43, 3762815.13	0.0808	0.25711	7.35E-05	3.85E-05	1.12E-04	3.9E-08	1.2E-07	9.2E-08	8.0E-08	3.6E-08	1.5E-09	3.7E-08	0.0E+00	0.0E+00	0.0E+00	3.8E-08
451	UCART9	440833.4	3762815.13	440833.43, 3762815.13	0.07625	0.22507	6.94E-05	3.37E-05	1.03E-04	3.6E-08	1.1E-07	8.5E-08	7.4E-08	3.3E-08	1.4E-09	3.4E-08	0.0E+00	0.0E+00	0.0E+00	3.5E-08
452	UCART9	440883.4	3762815.13	440883.43, 3762815.13	0.07232	0.19911	6.58E-05	2.98E-05	9.56E-05	3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	1.3E-09	3.1E-08	0.0E+00	0.0E+00	0.0E+00	3.3E-08
453	UCART9	440933.4	3762815.13	440933.43, 3762815.13	0.069	0.1779	6.28E-05	2.66E-05	8.94E-05	3.1E-08	9.3E-08	7.4E-08	6.4E-08	2.9E-08	1.2E-09	2.9E-08	0.0E+00	0.0E+00	0.0E+00	3.1E-08
454	UCART9	440983.4	3762815.13	440983.43, 3762815.13	0.06592	0.15989	6.00E-05	2.39E-05	8.39E-05	2.9E-08	8.8E-08	6.9E-08	6.0E-08	2.7E-08	1.1E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
455	UCART9	440433.4	3762865.13	440433.43, 3762865.13	0.13756	0.98413	1.25E-04	1.47E-04	2.73E-04	9.4E-08	2.8E-07	2.3E-07	1.9E-07	8.8E-08	3.7E-09	9.0E-08	0.0E+00	0.0E+00	0.0E+00	9.3E-08
456	UCART9	440483.4	3762865.13	440483.43, 3762865.13	0.12406	0.70349	1.13E-04	1.05E-04	2.18E-04	7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.0E-08	3.0E-09	7.2E-08	0.0E+00	0.0E+00	0.0E+00	7.5E-08
457	UCART9	440533.4	3762865.13	440533.43, 3762865.13	0.11295	0.54623	1.03E-04	8.18E-05	1.85E-04	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	2.5E-09	6.1E-08	0.0E+00	0.0E+00	0.0E+00	6.3E-08
458	UCART9	440583.4	3762865.13	440583.43, 3762865.13	0.10361	0.44314	9.43E-05	6.64E-05	1.61E-04	5.6E-08	1.7E-07	1.3E-07	1.1E-07	5.2E-08	2.2E-09	5.3E-08	0.0E+00	0.0E+00	0.0E+00	5.5E-08
459	UCART9	440633.4	3762865.13	440633.43, 3762865.13	0.09568	0.36975	8.71E-05	5.54E-05	1.42E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	1.9E-09	4.7E-08	0.0E+00	0.0E+00	0.0E+00	4.9E-08
460	UCART9	440683.4	3762865.13	440683.43, 3762865.13	0.08903	0.31509	8.10E-05	4.72E-05	1.28E-04	4.4E-08	1.3E-07	1.1E-07	9.2E-08	4.1E-08	1.7E-09	4.2E-08	0.0E+00	0.0E+00	0.0E+00	4.4E-08
461	UCART9	440733.4	3762865.13	440733.43, 3762865.13	0.08322	0.2724	7.57E-05	4.08E-05	1.17E-04	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	1.6E-09	3.8E-08	0.0E+00	0.0E+00	0.0E+00	4.0E-08
462	UCART9	440783.4	3762865.13	440783.43, 3762865.13	0.07827	0.23856	7.12E-05	3.57E-05	1.07E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	1.5E-09	3.5E-08	0.0E+00	0.0E+00	0.0E+00	3.7E-08
463	UCART9	440833.4	3762865.13	440833.43, 3762865.13	0.074	0.21117	6.73E-05	3.16E-05	9.90E-05	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	1.3E-09	3.3E-08	0.0E+00	0.0E+00	0.0E+00	3.4E-08
464	UCART9	440883.4	3762865.13	440883.43, 3762865.13	0.07021	0.18842	6.39E-05	2.82E-05	9.21E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	3.0E-08	1.3E-09	3.0E-08	0.0E+00	0.0E+00	0.0E+00	3.2E-08
465	UCART9	440933.4	3762865.13	440933.43, 3762865.13	0.06685	0.16931	6.08E-05	2.54E-05	8.62E-05	3.0E-08	9.0E-08	7.1E-08	6.2E-08	2.8E-08	1.2E-09	2.8E-08	0.0E+00	0.0E+00	0.0E+00	2.9E-08
466	UCART9	440983.4	3762865.13	440983.43, 3762865.13	0.06372	0.1529	5.80E-05	2.29E-05	8.09E-05	2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	1.1E-09	2.7E-08	0.0E+00	0.0E+00	0.0E+00	2.8E-08
467	UCART10	441118.3	3762686.02	441118.27, 3762686.02	0.06608	0.1272	6.01E-05	1.90E-05	7.92E-05	2.7E-08	8.3E-08	6.5E-08	5.7E-08	2.5E-08	1.1E-09	2.6E-08	0.0E+00	0.0E+00	0.0E+00	2.7E-08
468	UCART10	441168.3	3762686.02	441168.27, 3762686.02	0.06372	0.11599	5.80E-05	1.74E-05	7.54E-05	2.6E-08	7.9E-08	6.2E-08	5.4E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
469	UCART10	441118.3	3762736.02	441118.27, 3762736.02	0.06268	0.1267	5.70E-05	1.90E-05	7.60E-05	2.6E-08	7.9E-08	6.3E-08	5.4E-08	2.4E-08	1.0E-09	2.5E-08	0.0E+00	0.0E+00	0.0E+00	2.6E-08
470	UCART10	441168.3	3762736.02	441168.27, 3762736.02	0.06046	0.1158	5.50E-05	1.73E-05	7.24E-05	2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	9.8E-10	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
471	UCART10	441118.3	3762786.02	441118.27, 3762786.02	0.06011	0.12495	5.47E-05	1.87E-05	7.34E-05	2.5E-08	7.7E-08	6.1E-08	5.2E-08	2.4E-08	1.0E-09	2.4E-08	0.0E+00	0.0E+00	0.0E+00	2.5E-08
472	UCART10	441168.3	3762786.02	441168.27, 3762786.02	0.05782	0.11433	5.26E-05	1.71E-05	6.97E-05	2.4E-08	7.3E-08	5.8E-08	5.0E-08	2.2E-08	9.5E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
473	UCART10	441118.3	3762836.02	441118.27, 3762836.02	0.05787	0.12174	5.27E-05	1.82E-05	7.09E-05	2.5E-08	7.4E-08	5.9E-08	5.1E-08	2.3E-08	9.6E-10	2.3E-08	0.0E+00	0.0E+00	0.0E+00	2.4E-08
474	UCART10	441168.3	3762836.02	441168.27, 3762836.02	0.0556	0.11169	5.06E-05	1.67E-05	6.73E-05	2.3E-08	7.0E-08	5.6E-08	4.8E-08	2.2E-08	9.2E-10	2.2E-08	0.0E+00	0.0E+00	0.0E+00	2.3E-08
475	UCART11	440411.7	3762093.41	440411.67, 3762093.41	3.06911	0.25152	2.79E-03	3.77E-05	2.83E-03	9.8E-07	3.0E-06	2.3E-06	2.0E-06	9.1E-07	3.8E-08	9.3E-07	0.0E+00	0.0E+00	0.0E+00	9.7E-07
476	UCART11	440461.7	3762093.41	440461.67, 3762093.41	3.05806	0.22102	2.78E-03	3.31E-05	2.82E-03	9.7E-07	2.9E-06	2.3E-06	2.0E-06	9.0E-07	3.8E-08	9.2E-07	0.0E+00	0.0E+00	0.0E+00	9.6E-07
477	UCART11	440511.7	3762093.41	440511.67, 3762093.41	3.04803	0.19531	2.77E-03	2.92E-05	2.80E-03	9.7E-07	2.9E-06	2.3E-06	2.0E-06	9.0E-07	3.8E-08	9.2E-07	0.0E+00	0.0E+00	0.0E+00	9.6E-07
478	UCART11	440561.7	3762093.41	440561.67, 3762093.41	3.03996	0.17371	2.77E-03	2.60E-05	2.79E-03	9.7E-07	2.9E-06	2.3E-06	2.0E-06	9.0E-07	3.8E-08	9.2E-07	0.0E+00	0.0E+00	0.0E+00	9.6E-07
479	UCART11	440611.7	3762093.41	440611.67, 3762093.41	3.03259	0.15551	2.76E-03	2.33E-05	2.78E-03	9.6E-07	2.9E-06	2.3E-06	2.0E-06	8.9E-07	3.8E-08	9.1E-07	0.0E+00	0.0E+00	0.0E+00	9.5E-07
480	UCART11	440411.7	3762143.41	440411.67, 3762143.41	0.83431	0.32792	7.59E-04	4.91E-05	8.08E-04	2.8E-07	8.4E-07	6.7E-07	5.8E-07	2.6E-07	1.1E-08	2.7E-07	0.0E+00	0.0E+00	0.0E+00	2.8E-07
481	UCART11	440461.7	3762143.41	440461.67, 3762143.41	0.83115	0.27895	7.56E-04	4.18E-05	7.98E-04	2.8E-07	8.3E-07	6.6E-07	5.7E-07	2.6E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
482	UCART11	440511.7	3762143.41	440511.67, 3762143.41	0.82091	0.24007	7.47E-04	3.60E-05	7.83E-04	2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	1.1E-08	2.6E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
483	UCART11	440561.7	3762143.41	440561.67, 3762143.41	0.81737	0.20899	7.44E-04	3.13E-05	7.75E-04	2.7E-07	8.1E-07	6.4E-07	5.5E-07	2.5E-07	1.1E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.7E-07
484	UCART11	440611.7	3762143.41	440611.67, 3762143.41	0.80847	0.18378	7.36E-04	2.75E-05	7.63E-04	2.6E-07	8.0E-07	6.3E-07	5.5E-07	2.5E-07	1.0E-08	2.5E-07	0.0E+00	0.0E+00	0.0E+00	2.6E-07
485	UCART12	440406.6	3762008.86	440406.61, 3762008.86	0.74502	0.17276	6.78E-04	2.59E-05	7.04E-04	2.4E-07	7.4E-07	5.8E-07	5.0E-07	2.3E-07	9.6E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
486	UCART12	440456.6	3762008.86	440456.61, 3762008.86	0.73366	0.15766	6.68E-04	2.36E-05	6.91E-04	2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	9.4E-09	2.3E-07	0.0E+00	0.0E+00	0.0E+00	2.4E-07
487	UCART12	440506.6	3762008.86	440506.61, 3762008.86	0.72401	0.14393	6.59E-04	2.16E-05	6.80E-04	2.4E-07	7.1E-07	5.6E-07	4.9E-07	2.2E-07	9.3E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
488	UCART12	440556.6	3762008.86	440556.61, 3762008.86	0.71543	0.1316	6.51E-04	1.97E-05	6.71E-04	2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.2E-07	9.1E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07

PHASE 1 CONSTRUCTION MITIGATED

Mitigated	
Onsite	Offsite
9.10E-04	1.50E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
489	UCART12	440606.6	3762008.86	440606.61, 3762008.86	0.70783	0.12063	6.44E-04	1.81E-05	6.62E-04	2.3E-07	6.9E-07	5.5E-07	4.7E-07	2.1E-07	9.0E-09	2.2E-07	0.0E+00	0.0E+00	0.0E+00	2.3E-07
490	UCART12	440656.6	3762008.86	440656.61, 3762008.86	0.70058	0.11092	6.37E-04	1.66E-05	6.54E-04	2.3E-07	6.8E-07	5.4E-07	4.7E-07	2.1E-07	8.9E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
491	UCART12	440706.6	3762008.86	440706.61, 3762008.86	0.69377	0.10232	6.31E-04	1.53E-05	6.47E-04	2.2E-07	6.8E-07	5.3E-07	4.6E-07	2.1E-07	8.8E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
492	UCART12	440756.6	3762008.86	440756.61, 3762008.86	0.68735	0.0947	6.25E-04	1.42E-05	6.40E-04	2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	8.7E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
493	UCART12	440806.6	3762008.86	440806.61, 3762008.86	0.67919	0.08791	6.18E-04	1.32E-05	6.31E-04	2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	8.6E-09	2.1E-07	0.0E+00	0.0E+00	0.0E+00	2.2E-07
494	UCART12	440856.6	3762008.86	440856.61, 3762008.86	0.67197	0.08188	6.11E-04	1.23E-05	6.24E-04	2.2E-07	6.5E-07	5.1E-07	4.5E-07	2.0E-07	8.5E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
495	UCART12	440906.6	3762008.86	440906.61, 3762008.86	0.66335	0.07651	6.04E-04	1.15E-05	6.15E-04	2.1E-07	6.4E-07	5.1E-07	4.4E-07	2.0E-07	8.4E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
496	UCART12	440956.6	3762008.86	440956.61, 3762008.86	0.65041	0.07169	5.92E-04	1.07E-05	6.03E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	8.2E-09	2.0E-07	0.0E+00	0.0E+00	0.0E+00	2.1E-07
497	UCART12	441006.6	3762008.86	441006.61, 3762008.86	0.63126	0.06735	5.74E-04	1.01E-05	5.84E-04	2.0E-07	6.1E-07	4.8E-07	4.2E-07	1.9E-07	7.9E-09	1.9E-07	0.0E+00	0.0E+00	0.0E+00	2.0E-07
498	UCART12	441056.6	3762008.86	441056.61, 3762008.86	0.59757	0.06344	5.44E-04	9.50E-06	5.53E-04	1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	7.5E-09	1.8E-07	0.0E+00	0.0E+00	0.0E+00	1.9E-07
499	UCART12	441106.6	3762008.86	441106.61, 3762008.86	0.53191	0.05992	4.84E-04	8.97E-06	4.93E-04	1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	6.7E-09	1.6E-07	0.0E+00	0.0E+00	0.0E+00	1.7E-07
500	UCART12	441156.6	3762008.86	441156.61, 3762008.86	0.41189	0.05673	3.75E-04	8.50E-06	3.83E-04	1.3E-07	4.0E-07	3.2E-07	2.7E-07	1.2E-07	5.2E-09	1.3E-07	0.0E+00	0.0E+00	0.0E+00	1.3E-07
501	UCART12	440406.6	3762058.86	440406.61, 3762058.86	2.6557	0.21523	2.42E-03	3.22E-05	2.45E-03	8.5E-07	2.6E-06	2.0E-06	1.7E-06	7.9E-07	3.3E-08	8.0E-07	0.0E+00	0.0E+00	0.0E+00	8.4E-07
502	UCART12	440456.6	3762058.86	440456.61, 3762058.86	2.64227	0.19248	2.40E-03	2.88E-05	2.43E-03	8.4E-07	2.5E-06	2.0E-06	1.7E-06	7.8E-07	3.3E-08	8.0E-07	0.0E+00	0.0E+00	0.0E+00	8.3E-07
503	UCART12	440506.6	3762058.86	440506.61, 3762058.86	2.63465	0.17262	2.40E-03	2.58E-05	2.42E-03	8.4E-07	2.5E-06	2.0E-06	1.7E-06	7.8E-07	3.3E-08	8.0E-07	0.0E+00	0.0E+00	0.0E+00	8.3E-07
504	UCART12	440556.6	3762058.86	440556.61, 3762058.86	2.62499	0.15542	2.39E-03	2.33E-05	2.41E-03	8.3E-07	2.5E-06	2.0E-06	1.7E-06	7.7E-07	3.3E-08	7.9E-07	0.0E+00	0.0E+00	0.0E+00	8.3E-07
505	UCART12	440606.6	3762058.86	440606.61, 3762058.86	2.61951	0.14057	2.38E-03	2.11E-05	2.40E-03	8.3E-07	2.5E-06	2.0E-06	1.7E-06	7.7E-07	3.3E-08	7.9E-07	0.0E+00	0.0E+00	0.0E+00	8.2E-07
506	UCART12	440656.6	3762058.86	440656.61, 3762058.86	2.60831	0.12775	2.37E-03	1.91E-05	2.39E-03	8.3E-07	2.5E-06	2.0E-06	1.7E-06	7.7E-07	3.3E-08	7.9E-07	0.0E+00	0.0E+00	0.0E+00	8.2E-07
507	UCART12	440706.6	3762058.86	440706.61, 3762058.86	2.61333	0.11664	2.38E-03	1.75E-05	2.40E-03	8.3E-07	2.5E-06	2.0E-06	1.7E-06	7.7E-07	3.3E-08	7.9E-07	0.0E+00	0.0E+00	0.0E+00	8.2E-07
508	UCART12	440756.6	3762058.86	440756.61, 3762058.86	2.61271	0.10697	2.38E-03	1.60E-05	2.39E-03	8.3E-07	2.5E-06	2.0E-06	1.7E-06	7.7E-07	3.3E-08	7.9E-07	0.0E+00	0.0E+00	0.0E+00	8.2E-07
509	UCART12	440806.6	3762058.86	440806.61, 3762058.86	2.57497	0.0985	2.34E-03	1.48E-05	2.36E-03	8.2E-07	2.5E-06	1.9E-06	1.7E-06	7.6E-07	3.2E-08	7.7E-07	0.0E+00	0.0E+00	0.0E+00	8.1E-07
510	UCART12	440856.6	3762058.86	440856.61, 3762058.86	2.58087	0.09108	2.35E-03	1.36E-05	2.36E-03	8.2E-07	2.5E-06	2.0E-06	1.7E-06	7.6E-07	3.2E-08	7.8E-07	0.0E+00	0.0E+00	0.0E+00	8.1E-07
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	2.58765	0.08454	2.35E-03	1.27E-05	2.37E-03	8.2E-07	2.5E-06	2.0E-06	1.7E-06	7.6E-07	3.2E-08	7.8E-07	0.0E+00	0.0E+00	0.0E+00	8.1E-07
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	2.56616	0.07875	2.34E-03	1.18E-05	2.35E-03	8.1E-07	2.5E-06	1.9E-06	1.7E-06	7.5E-07	3.2E-08	7.7E-07	0.0E+00	0.0E+00	0.0E+00	8.0E-07
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	2.54074	0.0736	2.31E-03	1.10E-05	2.32E-03	8.0E-07	2.4E-06	1.9E-06	1.7E-06	7.5E-07	3.2E-08	7.6E-07	0.0E+00	0.0E+00	0.0E+00	7.9E-07
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	2.49408	0.06901	2.27E-03	1.03E-05	2.28E-03	7.9E-07	2.4E-06	1.9E-06	1.6E-06	7.3E-07	3.1E-08	7.5E-07	0.0E+00	0.0E+00	0.0E+00	7.8E-07
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	2.36345	0.06489	2.15E-03	9.72E-06	2.16E-03	7.5E-07	2.3E-06	1.8E-06	1.5E-06	6.9E-07	2.9E-08	7.1E-07	0.0E+00	0.0E+00	0.0E+00	7.4E-07
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	1.49174	0.06119	1.36E-03	9.16E-06	1.37E-03	4.7E-07	1.4E-06	1.1E-06	9.8E-07	4.4E-07	1.9E-08	4.5E-07	0.0E+00	0.0E+00	0.0E+00	4.7E-07

PHASE 1 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	8.41E-03	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	0.96271	1.01284	0.00035	1.94616	1.59E-05	8.52E-03	8.74E-07	1.60E-04	8.70E-03
2	1	439943.4	3761716.33	439943.36, 3761716.33	1.53963	1.59563	0.00063	15.84506	2.55E-05	1.34E-02	1.57E-06	1.30E-03	1.48E-02
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	0.96577	0.9213	0.00028	0.93443	1.60E-05	7.75E-03	6.99E-07	7.69E-05	7.84E-03
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	1.02499	0.97239	0.00029	1.00922	1.70E-05	8.18E-03	7.24E-07	8.30E-05	8.28E-03
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	1.10241	1.04398	0.00031	1.10142	1.83E-05	8.78E-03	7.74E-07	9.06E-05	8.89E-03
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	1.18295	1.1197	0.00032	1.20541	1.96E-05	9.42E-03	7.99E-07	9.92E-05	9.54E-03
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	1.27606	1.20627	0.00033	1.33238	2.11E-05	1.01E-02	8.24E-07	1.10E-04	1.03E-02
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	1.38452	1.30683	0.00035	1.48768	2.29E-05	1.10E-02	8.74E-07	1.22E-04	1.11E-02
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	1.51432	1.42656	0.00036	1.68061	2.51E-05	1.20E-02	8.99E-07	1.38E-04	1.22E-02
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	1.64838	1.55004	0.00038	1.91617	2.73E-05	1.30E-02	9.49E-07	1.58E-04	1.32E-02
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	1.79826	1.681	0.00039	2.21746	2.98E-05	1.41E-02	9.74E-07	1.82E-04	1.44E-02
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	1.94965	1.82511	0.0004	2.61259	3.23E-05	1.53E-02	9.99E-07	2.15E-04	1.56E-02
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	2.12235	1.98197	0.00041	3.15855	3.52E-05	1.67E-02	1.02E-06	2.60E-04	1.70E-02
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	2.32408	2.15782	0.00042	3.97542	3.85E-05	1.81E-02	1.05E-06	3.27E-04	1.85E-02
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	2.55362	2.35398	0.00045	5.32306	4.23E-05	1.98E-02	1.12E-06	4.38E-04	2.03E-02
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	2.79414	2.56252	0.00049	8.03992	4.63E-05	2.16E-02	1.22E-06	6.61E-04	2.23E-02
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	3.04907	2.78583	0.00054	17.26154	5.05E-05	2.34E-02	1.35E-06	1.42E-03	2.49E-02
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	0.91874	0.87283	0.00024	0.90257	1.52E-05	7.34E-03	5.99E-07	7.42E-05	7.43E-03
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	0.97779	0.92787	0.00025	0.97447	1.62E-05	7.80E-03	6.24E-07	8.02E-05	7.90E-03
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	1.04875	0.99407	0.00026	1.06449	1.74E-05	8.36E-03	6.49E-07	8.76E-05	8.47E-03
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	1.12106	1.06119	0.00027	1.16167	1.86E-05	8.93E-03	6.74E-07	9.56E-05	9.04E-03
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	1.20511	1.13918	0.00028	1.28326	2.00E-05	9.58E-03	6.99E-07	1.06E-04	9.71E-03
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	1.30238	1.22921	0.00028	1.43395	2.16E-05	1.03E-02	6.99E-07	1.18E-04	1.05E-02
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	1.4016	1.32077	0.00029	1.61199	2.32E-05	1.11E-02	7.24E-07	1.33E-04	1.13E-02
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	1.51209	1.42267	0.00029	1.83385	2.50E-05	1.20E-02	7.24E-07	1.51E-04	1.21E-02
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	1.64442	1.54237	0.0003	2.12776	2.72E-05	1.30E-02	7.49E-07	1.75E-04	1.32E-02
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	1.78303	1.66754	0.0003	2.50916	2.95E-05	1.40E-02	7.49E-07	2.06E-04	1.43E-02
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	1.9201	1.78706	0.00031	3.03919	3.18E-05	1.50E-02	7.74E-07	2.50E-04	1.53E-02
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	2.06946	1.92414	0.00033	3.83111	3.43E-05	1.62E-02	8.24E-07	3.15E-04	1.65E-02
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	2.23205	2.07605	0.00035	5.14215	3.70E-05	1.75E-02	8.74E-07	4.23E-04	1.79E-02
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	2.40252	2.23335	0.00038	7.80064	3.98E-05	1.88E-02	9.49E-07	6.42E-04	1.95E-02
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	2.58374	2.37698	0.00043	16.82323	4.28E-05	2.00E-02	1.07E-06	1.38E-03	2.14E-02
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	0.87694	0.83337	0.00021	0.86963	1.45E-05	7.01E-03	5.24E-07	7.15E-05	7.10E-03
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	0.93151	0.88503	0.00022	0.94016	1.54E-05	7.44E-03	5.49E-07	7.73E-05	7.54E-03
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	0.99718	0.94529	0.00022	1.0246	1.65E-05	7.95E-03	5.49E-07	8.43E-05	8.05E-03
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	1.05797	1.00231	0.00022	1.11696	1.75E-05	8.43E-03	5.49E-07	9.19E-05	8.54E-03
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	1.13421	1.07392	0.00022	1.23282	1.88E-05	9.03E-03	5.49E-07	1.01E-04	9.15E-03
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	1.22252	1.15391	0.00023	1.37589	2.03E-05	9.70E-03	5.74E-07	1.13E-04	9.84E-03
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	1.30525	1.23175	0.00023	1.54181	2.16E-05	1.04E-02	5.74E-07	1.27E-04	1.05E-02
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	1.40168	1.31788	0.00023	1.75477	2.32E-05	1.11E-02	5.74E-07	1.44E-04	1.13E-02
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	1.50877	1.41494	0.00023	2.03	2.50E-05	1.19E-02	5.74E-07	1.67E-04	1.21E-02
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	1.62622	1.52046	0.00024	2.39715	2.69E-05	1.28E-02	5.99E-07	1.97E-04	1.30E-02
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	1.71996	1.61358	0.00025	2.90103	2.85E-05	1.36E-02	6.24E-07	2.39E-04	1.38E-02
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	1.8168	1.70653	0.00026	3.6597	3.01E-05	1.44E-02	6.49E-07	3.01E-04	1.47E-02
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	1.93512	1.79193	0.00028	4.93879	3.21E-05	1.51E-02	6.99E-07	4.06E-04	1.55E-02
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	2.06706	1.89293	0.00031	7.55341	3.42E-05	1.59E-02	7.74E-07	6.21E-04	1.66E-02
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	2.19918	1.99102	0.00035	16.38348	3.64E-05	1.67E-02	8.74E-07	1.35E-03	1.81E-02
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	0.83283	0.792	0.00018	0.83551	1.38E-05	6.66E-03	4.49E-07	6.87E-05	6.74E-03
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	0.88376	0.83937	0.00018	0.90257	1.46E-05	7.06E-03	4.49E-07	7.42E-05	7.15E-03
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	0.94279	0.89442	0.00018	0.9831	1.56E-05	7.52E-03	4.49E-07	8.09E-05	7.62E-03
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	1.00198	0.94834	0.00018	1.07382	1.66E-05	7.98E-03	4.49E-07	8.83E-05	8.08E-03
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	1.06858	1.01121	0.00018	1.18222	1.77E-05	8.50E-03	4.49E-07	9.72E-05	8.62E-03
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	1.14072	1.07735	0.00018	1.31249	1.89E-05	9.06E-03	4.49E-07	1.08E-04	9.19E-03
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	1.20775	1.14016	0.00018	1.4679	2.00E-05	9.59E-03	4.49E-07	1.21E-04	9.73E-03
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	1.28888	1.21543	0.00018	1.66757	2.13E-05	1.02E-02	4.49E-07	1.37E-04	1.04E-02
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	1.38	1.29702	0.00018	1.92626	2.29E-05	1.09E-02	4.49E-07	1.58E-04	1.11E-02
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	1.47833	1.38385	0.00019	2.27223	2.45E-05	1.16E-02	4.74E-07	1.87E-04	1.19E-02
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	1.5525	1.46636	0.0002	2.74984	2.57E-05	1.23E-02	4.99E-07	2.26E-04	1.26E-02
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	1.62733	1.51506	0.00022	3.47656	2.70E-05	1.27E-02	5.49E-07	2.86E-04	1.31E-02
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	1.70816	1.563	0.00024	4.71507	2.83E-05	1.31E-02	5.99E-07	3.88E-04	1.36E-02
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	1.73383	1.63125	0.00026	7.27055	2.87E-05	1.37E-02	6.49E-07	5.98E-04	1.43E-02
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	1.80003	1.66102	0.00029	15.92082	2.98E-05	1.40E-02	7.24E-07	1.31E-03	1.53E-02
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	0.77994	0.75145	0.00015	0.79863	1.29E-05	6.32E-03	3.75E-07	6.57E-05	6.40E-03
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	0.81455	0.77758	0.00015	0.85604	1.35E-05	6.54E-03	3.75E-07	7.04E-05	6.62E-03
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	0.86356	0.8272	0.00015	0.92873	1.43E-05	6.96E-03	3.75E-07	7.64E-05	7.05E-03
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	0.92183	0.88333	0.00015	1.01714	1.53E-05	7.43E-03	3.75E-07	8.37E-05	7.53E-03
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	0.99187	0.94603	0.00015	1.12319	1.64E-05	7.96E-03	3.75E-07	9.24E-05	8.07E-03
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	1.04024	0.99839	0.00014	1.23809	1.72E-05	8.40E-03	3.50E-07	1.02E-04	8.52E-03
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	1.09789	1.0433	0.00014	1.38054	1.82E-05	8.77E-03	3.50E-07	1.14E-04	8.91E-03
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	1.16	1.09604	0.00014	1.56037	1.92E-05	9.22E-03	3.50E-07	1.28E-04	9.37E-03
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	1.24806	1.19102	0.00015	1.80784	2.07E-05	1.00E-02	3.75E-07	1.49E-04	1.02E-02
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	1.32059	1.25214	0.00016	2.12441	2.19E-05	1.05E-02	4.00E-07	1.75E-04	1.07E-02
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	1.39469	1.31336	0.00017	2.57712	2.31E-05	1.10E-02	4.25E-07	2.12E-04	1.13E-02
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	1.44888	1.33666	0.00018	3.2613	2.40E-05	1.12E-02	4.49E-07	2.68E-04	1.15E-02
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	1.42272	1.32947	0.0002	4.44217	2.36E-05	1.12E-02	4.99E-07	3.65E-04	1.16E-02
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	1.47666	1.35836	0.00023	6.9307	2.45E-05	1.14E-02	5.74E-07	5.70E-04	1.20E-02
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	1.54169	1.41384	0.00025	15.37469	2.55E-05	1.19E-02	6.24E-07	1.26E-03	1.32E-02
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	0.73317	0.69887	0.00013	0.76167	1.21E-05	5.88E-03	3.25E-07	6.27E-05	5.95E-03
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	0.7633	0.72514	0.00012	0.81536	1.26E-05	6.10E-03	3.00E-07	6.71E-05	6.18E-03

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.0E-06	4.5E-07	4.9E-06
5.1E-06	1.5E-05	1.2E-05	1.1E-05	4.7E-06	0.0E+00	0.0E+00	4.0E-06	3.5E-06	7.6E-07	8.3E-06
2.7E-06	8.2E-06	6.5E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.4E-06
2.9E-06	8.7E-06	6.8E-06	5.9E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.6E-06
3.1E-06	9.3E-06	7.3E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	5.0E-06
3.3E-06	1.0E-05	7.9E-06	6.8E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
3.6E-06	1.1E-05	8.5E-06	7.3E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.8E-06
3.9E-06	1.2E-05	9.2E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.7E-07	6.2E-06
4.2E-06	1.3E-05	1.0E-05	8.7E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.3E-07	6.8E-06
4.6E-06	1.4E-05	1.1E-05	9.4E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.4E-06
5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.4E-07	8.0E-06
5.4E-06	1.6E-05	1.3E-05	1.1E-05	5.0E-06	0.0E+00	0.0E+00	4.2E-06	3.7E-06	8.0E-07	8.7E-06
5.9E-06	1.8E-05	1.4E-05	1.2E-05	5.4E-06	0.0E+00	0.0E+00	4.6E-06	4.0E-06	8.8E-07	9.5E-06
6.4E-06	1.9E-05	1.5E-05	1.3E-05	5.9E-06	0.0E+00	0.0E+00	5.0E-06	4.4E-06	9.6E-07	1.0E-05
7.0E-06	2.1E-05	1.7E-05	1.4E-05	6.5E-06	0.0E+00	0.0E+00	5.5E-06	4.8E-06	1.0E-06	1.1E-05
7.7E-06	2.3E-05	1.8E-05	1.6E-05	7.2E-06	0.0E+00	0.0E+00	6.1E-06	5.2E-06	1.1E-06	1.2E-05
8.6E-06	2.6E-05	2.1E-05	1.8E-05	8.0E-06	0.0E+00	0.0E+00	6.8E-06	5.9E-06	1.3E-06	1.4E-05
2.6E-06	7.8E-06	6.1E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.8E-06	3.8E-07	4.2E-06
2.7E-06	8.3E-06	6.5E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.1E-07	4.4E-06
2.9E-06	8.8E-06	7.0E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.7E-06
3.1E-06	9.4E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
3.4E-06	1.0E-05	8.0E-06	6.9E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	5.0E-07	5.4E-06
3.6E-06	1.1E-05	8.7E-06	7.5E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.4E-07	5.9E-06
3.9E-06	1.2E-05	9.3E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.8E-07	6.3E-06
4.2E-06	1.3E-05	1.0E-05	8.7E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.3E-07	6.8E-06
4.6E-06	1.4E-05	1.1E-05	9.4E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.4E-06
4.9E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.4E-07	8.0E-06
5.3E-06	1.6E-05	1.3E-05	1.1E-05	4.9E-06	0.0E+00	0.0E+00	4.2E-06	3.6E-06	7.9E-07	8.6E-06
5.7E-06	1.7E-05	1.4E-05	1.2E-05	5.3E-06	0.0E+00	0.0E+00	4.5E-06	3.9E-06	8.5E-07	9.3E-06
6.2E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.9E-06	4.2E-06	9.2E-07	1.0E-05
6.7E-06	2.0E-05	1.6E-05	1.4E-05	6.3E-06	0.0E+00	0.0E+00	5.3E-06	4.6E-06	1.0E-06	1.1E-05
7.4E-06	2.2E-05	1.8E-05	1.5E-05	6.9E-06	0.0E+00	0.0E+00	5.8E-06	5.0E-06	1.1E-06	1.2E-05
2.5E-06	7.4E-06	5.9E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.7E-07	4.0E-06
2.6E-06	7.9E-06	6.2E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.2E-06
2.8E-06	8.4E-06	6.6E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.5E-06
3.0E-06	8.9E-06	7.1E-06	6.1E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.8E-06
3.2E-06	9.6E-06	7.6E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.7E-07	5.1E-06
3.4E-06	1.0E-05	8.1E-06	7.0E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.5E-06
3.6E-06	1.1E-05	8.7E-06	7.5E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.4E-07	5.9E-06
3.9E-06	1.2E-05	9.3E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.8E-07	6.3E-06
4.2E-06	1.3E-05	1.0E-05	8.6E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.2E-07	6.8E-06
4.5E-06	1.4E-05	1.1E-05	9.3E-06	4.2E-06	0.0E+00	0.0E+00	3.5E-06	3.1E-06	6.7E-07	7.3E-06
4.8E-06	1.4E-05	1.1E-05	9.9E-06	4.4E-06	0.0E+00	0.0E+00	3.8E-06	3.3E-06	7.1E-07	7.7E-06
5.1E-06	1.5E-05	1.2E-05	1.0E-05	4.7E-06	0.0E+00	0.0E+00	4.0E-06	3.5E-06	7.6E-07	8.2E-06
5.4E-06	1.6E-05	1.3E-05	1.1E-05	5.0E-06	0.0E+00	0.0E+00	4.2E-06	3.7E-06	8.0E-07	8.7E-06
5.7E-06	1.7E-05	1.4E-05	1.2E-05	5.3E-06	0.0E+00	0.0E+00	4.5E-06	3.9E-06	8.6E-07	9.3E-06
6.3E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.9E-06	4.3E-06	9.4E-07	1.0E-05
2.3E-06	7.0E-06	5.6E-06	4.8E-06	2.2E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.5E-07	3.8E-06
2.5E-06	7.5E-06	5.9E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.7E-07	4.0E-06
2.6E-06	8.0E-06	6.3E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.3E-06
2.8E-06	8.4E-06	6.7E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.5E-06
3.0E-06	9.0E-06	7.1E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.8E-06
3.2E-06	9.6E-06	7.6E-06	6.6E-06	3.0E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.7E-07	5.1E-06
3.4E-06	1.0E-05	8.0E-06	7.0E-06	3.1E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.0E-07	5.4E-06
3.6E-06	1.1E-05	8.6E-06	7.4E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.4E-07	5.8E-06
3.8E-06	1.2E-05	9.2E-06	7.9E-06	3.6E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.7E-07	6.2E-06
4.1E-06	1.2E-05	9.8E-06	8.5E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.6E-06
4.4E-06	1.3E-05	1.0E-05	9.0E-06	4.0E-06	0.0E+00	0.0E+00	3.4E-06	3.0E-06	6.5E-07	7.0E-06
4.5E-06	1.4E-05	1.1E-05	9.3E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.7E-07	7.3E-06
4.7E-06	1.4E-05	1.1E-05	9.7E-06	4.4E-06	0.0E+00	0.0E+00	3.7E-06	3.2E-06	7.0E-07	7.6E-06
5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.4E-07	8.0E-06
5.3E-06	1.6E-05	1.3E-05	1.1E-05	4.9E-06	0.0E+00	0.0E+00	4.2E-06	3.6E-06	7.9E-07	8.6E-06
2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.3E-07	3.6E-06
2.3E-06	6.9E-06	5.5E-06	4.7E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.4E-07	3.7E-06
2.4E-06	7.4E-06	5.8E-06	5.0E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.6E-07	3.9E-06
2.6E-06	7.9E-06	6.

PHASE 1 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	8.41E-03	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	0.81837	0.78081	0.00012	0.8876	1.36E-05	6.57E-03	3.00E-07	7.30E-05	6.65E-03
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	0.8661	0.82906	0.00012	0.9678	1.43E-05	6.97E-03	3.00E-07	7.96E-05	7.07E-03
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	0.92413	0.88881	0.00012	1.06452	1.53E-05	7.48E-03	3.00E-07	8.76E-05	7.58E-03
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	0.96982	0.92443	0.00012	1.17049	1.61E-05	7.77E-03	3.00E-07	9.63E-05	7.89E-03
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	1.01629	0.95896	0.00012	1.29941	1.68E-05	8.07E-03	3.00E-07	1.07E-04	8.19E-03
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	1.06552	1.00069	0.00012	1.46189	1.76E-05	8.42E-03	3.00E-07	1.20E-04	8.55E-03
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	1.13338	1.06504	0.00012	1.68157	1.88E-05	8.96E-03	3.00E-07	1.38E-04	9.11E-03
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	1.20412	1.13255	0.00013	1.97239	1.99E-05	9.53E-03	3.25E-07	1.62E-04	9.71E-03
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	1.25559	1.16765	0.00015	2.37757	2.08E-05	9.82E-03	3.75E-07	1.96E-04	1.00E-02
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	1.25491	1.19756	0.00016	3.00485	2.08E-05	1.01E-02	4.00E-07	2.47E-04	1.03E-02
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	1.25268	1.16383	0.00018	4.10058	2.07E-05	9.79E-03	4.49E-07	3.37E-04	1.01E-02
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	1.28842	1.19978	0.0002	6.46213	2.13E-05	1.01E-02	4.99E-07	5.32E-04	1.06E-02
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	1.33178	1.23856	0.00022	14.68611	2.21E-05	1.04E-02	5.49E-07	1.21E-03	1.16E-02
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	0.67485	0.65231	0.0001	0.72442	1.12E-05	5.49E-03	2.50E-07	5.96E-05	5.56E-03
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	0.70009	0.6722	0.0001	0.77651	1.16E-05	5.65E-03	2.50E-07	6.39E-05	5.73E-03
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	0.76734	0.7276	0.0001	0.84334	1.27E-05	6.12E-03	2.50E-07	6.94E-05	6.20E-03
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	0.78668	0.75849	0.0001	0.91008	1.30E-05	6.38E-03	2.50E-07	7.49E-05	6.47E-03
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	0.84627	0.80021	0.0001	0.99691	1.40E-05	6.73E-03	2.50E-07	8.20E-05	6.83E-03
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	0.857	0.82883	0.0001	1.09042	1.42E-05	6.97E-03	2.50E-07	8.97E-05	7.07E-03
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	0.88937	0.84431	0.0001	1.20517	1.47E-05	7.10E-03	2.50E-07	9.91E-05	7.22E-03
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	0.95389	0.91615	0.0001	1.35932	1.58E-05	7.71E-03	2.50E-07	1.12E-04	7.83E-03
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	1.01902	0.96779	0.00011	1.55046	1.69E-05	8.14E-03	2.75E-07	1.28E-04	8.28E-03
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	1.08934	1.01727	0.00012	1.80739	1.80E-05	8.56E-03	3.00E-07	1.49E-04	8.72E-03
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	1.0844	1.02197	0.00013	2.15751	1.80E-05	8.60E-03	3.25E-07	1.77E-04	8.79E-03
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	1.11697	1.05173	0.00014	2.70065	1.85E-05	8.85E-03	3.50E-07	2.22E-04	9.09E-03
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	1.12122	1.04919	0.00016	3.64934	1.86E-05	8.82E-03	4.00E-07	3.00E-04	9.14E-03
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	1.14619	1.07194	0.00018	5.77154	1.90E-05	9.02E-03	4.49E-07	4.75E-04	9.51E-03
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	1.1743	1.0975	0.00019	13.58306	1.95E-05	9.23E-03	4.74E-07	1.12E-03	1.04E-02
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	0.62462	0.59519	9.00E-05	0.68866	1.03E-05	5.01E-03	2.25E-07	5.66E-05	5.07E-03
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	0.65198	0.62046	8.00E-05	0.73531	1.08E-05	5.22E-03	2.00E-07	6.05E-05	5.29E-03
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	0.6981	0.67305	8.00E-05	0.79814	1.16E-05	5.66E-03	2.00E-07	6.57E-05	5.74E-03
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	0.73039	0.7013	8.00E-05	0.86223	1.21E-05	5.90E-03	2.00E-07	7.09E-05	5.98E-03
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	0.76015	0.72471	8.00E-05	0.93402	1.26E-05	6.10E-03	2.00E-07	7.68E-05	6.18E-03
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	0.79454	0.75623	8.00E-05	1.0211	1.32E-05	6.36E-03	2.00E-07	8.40E-05	6.46E-03
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	0.82061	0.77389	8.00E-05	1.12378	1.36E-05	6.51E-03	2.00E-07	9.24E-05	6.61E-03
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	0.87018	0.82493	9.00E-05	1.25565	1.44E-05	6.94E-03	2.25E-07	1.03E-04	7.06E-03
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	0.90751	0.85893	0.0001	1.41796	1.50E-05	7.22E-03	2.50E-07	1.17E-04	7.36E-03
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	0.94967	0.89648	0.00011	1.63158	1.57E-05	7.54E-03	2.75E-07	1.34E-04	7.69E-03
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	0.97173	0.90787	0.00012	1.91949	1.61E-05	7.64E-03	3.00E-07	1.58E-04	7.81E-03
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	0.99289	0.92928	0.00013	2.35086	1.64E-05	7.82E-03	3.25E-07	1.93E-04	8.03E-03
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	1.00396	0.94293	0.00014	3.07153	1.66E-05	7.93E-03	3.50E-07	2.53E-04	8.20E-03
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	1.02306	0.96065	0.00016	4.68232	1.69E-05	8.08E-03	4.00E-07	3.85E-04	8.48E-03
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	1.04651	0.98217	0.00017	11.06055	1.73E-05	8.26E-03	4.25E-07	9.10E-04	9.19E-03
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	1.18411	1.12939	0.00042	1.09205	1.96E-05	9.50E-03	1.05E-06	8.98E-05	9.61E-03
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	1.28145	1.21969	0.00046	1.18759	2.12E-05	1.03E-02	1.15E-06	9.77E-05	1.04E-02
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	1.39582	1.32747	0.0005	1.3023	2.31E-05	1.12E-02	1.25E-06	1.07E-04	1.13E-02
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	1.53696	1.45966	0.00055	1.44623	2.55E-05	1.23E-02	1.37E-06	1.19E-04	1.24E-02
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	1.68929	1.60125	0.00061	1.60589	2.80E-05	1.35E-02	1.52E-06	1.32E-04	1.36E-02
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	1.86581	1.76739	0.00067	1.79977	3.09E-05	1.49E-02	1.67E-06	1.48E-04	1.50E-02
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	2.07392	1.9629	0.00075	2.0425	3.44E-05	1.65E-02	1.87E-06	1.68E-04	1.67E-02
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	2.31346	2.18884	0.00084	2.34274	3.83E-05	1.84E-02	2.10E-06	1.93E-04	1.86E-02
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	1.13854	1.08839	0.00038	1.06456	1.89E-05	9.15E-03	9.49E-07	8.76E-05	9.26E-03
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	1.22896	1.17664	0.00042	1.16042	2.04E-05	9.90E-03	1.05E-06	9.55E-05	1.00E-02
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	1.33095	1.27582	0.00045	1.2691	2.20E-05	1.07E-02	1.12E-06	1.04E-04	1.09E-02
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	1.45529	1.3903	0.00049	1.40429	2.41E-05	1.17E-02	1.22E-06	1.16E-04	1.18E-02
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	1.59967	1.52121	0.00053	1.56356	2.65E-05	1.28E-02	1.32E-06	1.29E-04	1.30E-02
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	1.75242	1.6704	0.00058	1.75389	2.90E-05	1.40E-02	1.45E-06	1.44E-04	1.42E-02
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	1.94476	1.84489	0.00064	1.99423	3.22E-05	1.55E-02	1.60E-06	1.64E-04	1.57E-02
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	2.15173	2.04625	0.0007	2.28999	3.56E-05	1.72E-02	1.75E-06	1.88E-04	1.74E-02
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	1.08858	1.03744	0.00035	1.03385	1.80E-05	8.73E-03	8.74E-07	8.50E-05	8.83E-03
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	1.17164	1.11442	0.00037	1.12602	1.94E-05	9.37E-03	9.24E-07	9.26E-05	9.49E-03
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	1.26577	1.20373	0.0004	1.23175	2.10E-05	1.01E-02	9.99E-07	1.01E-04	1.02E-02
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	1.37082	1.30464	0.00043	1.3588	2.27E-05	1.10E-02	1.07E-06	1.12E-04	1.11E-02
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	1.51102	1.44629	0.00046	1.52151	2.50E-05	1.22E-02	1.15E-06	1.25E-04	1.23E-02
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	1.64892	1.5724	0.00049	1.70673	2.73E-05	1.32E-02	1.22E-06	1.40E-04	1.34E-02
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	1.81737	1.73393	0.00053	1.93869	3.01E-05	1.46E-02	1.32E-06	1.59E-04	1.48E-02
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	1.99659	1.88608	0.00057	2.22633	3.31E-05	1.59E-02	1.42E-06	1.83E-04	1.61E-02
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	1.03752	0.99361	0.00031	1.0039	1.72E-05	8.36E-03	7.74E-07	8.26E-05	8.46E-03
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	1.10978	1.04812	0.00033	1.08841	1.84E-05	8.82E-03	8.24E-07	8.95E-05	8.92E-03
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	1.19067	1.12695	0.00035	1.19146	1.97E-05	9.48E-03	8.74E-07	9.80E-05	9.60E-03
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	1.28546	1.21542	0.00037	1.31202	2.13E-05	1.02E-02	9.24E-07	1.08E-04	1.04E-02
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	1.39693	1.31876	0.00039	1.46268	2.31E-05	1.11E-02	9.74E-07	1.20E-04	1.12E-02
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	1.52921	1.44153	0.00041	1.64439	2.53E-05	1.21E-02	1.02E-06	1.35E-04	1.23E-02
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	1.67823	1.59468	0.00043	1.87131	2.78E-05	1.34E-02	1.07E-06	1.54E-04	1.36E-02
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	1.83149	1.72473	0.00045	2.15329	3.03E-05	1.45E-02	1.12E-06	1.77E-04	1.47E-02
155	UCART3	439196	3762392.48	439196.01, 3762392.48	1.32824	1.26345	0.0006	1.23983	2.20E-05	1.06E-02	1.50E-06	1.02E-04	1.08E-02
156	UCART3	439246	3762392.48	439246.01, 3762392.48	1.45736	1.38141	0.00067	1.34927	2.41E-05	1.16E-02	1.67E-06	1.11E-04	1.18E-02
157	UCART3	439296	3762392.48	439296.01, 3762392.48	1.60756	1.51758	0.00075	1.47523	2.66E-05	1.28E-02	1.87E-06	1.21E-04	1.29E-02
158	UCART3	439346	3762392.48	439346.01, 3762392.48	1.78439	1.67641	0.00084	1.62134	2.96E-05	1.41E-02	2.10E-06	1.33E-04	1.43E-02

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
80	UCART1	2.3E-06	7.0E-06	5.5E-06	4.8E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.4E-07	3.7E-06
81	UCART1	2.4E-06	7.4E-06	5.8E-06	5.0E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.6E-07	4.0E-06
82	UCART1	2.6E-06	7.9E-06	6.3E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.2E-06
83	UCART1	2.7E-06	8.2E-06	6.5E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.9E-06	4.1E-07	4.4E-06
84	UCART1	2.8E-06	8.6E-06	6.8E-06	5.9E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.6E-06
85	UCART1	3.0E-06	8.9E-06	7.1E-06	6.1E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.8E-06
86	UCART1	3.2E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
87	UCART1	3.4E-06	1.0E-05	8.0E-06	6.9E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	5.0E-07	5.4E-06
88	UCART1	3.5E-06	1.0E-05	8.3E-06	7.2E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.4E-06	5.2E-07	5.6E-06
89	UCART1	3.6E-06	1.1E-05	8.5E-06	7.4E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.8E-06
90	UCART1	3.5E-06	1.1E-05	8.4E-06	7.2E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.2E-07	5.7E-06
91	UCART1	3.7E-06	1.1E-05	8.8E-06	7.6E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.5E-07	6.0E-06
92	UCART1	4.0E-06	1.2E-05	9.6E-06	8.3E-06	3.7E-06	0.0E+00	0.0E+00	3.2E-06	2.7E-06	6.0E-07	6.5E-06
93	UCART1	1.9E-06	5.8E-06	4.6E-06	4.0E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.9E-07	3.1E-06
94	UCART1	2.0E-06	6.0E-06	4.7E-06	4.1E-06	1.8E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.2E-06
95	UCART1	2.1E-06	6.5E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.2E-07	3.5E-06
96	UCART1	2.2E-06	6.8E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
97	UCART1	2.4E-06	7.1E-06	5.6E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.5E-07	3.8E-06
98	UCART1	2.4E-06	7.4E-06	5.8E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.6E-07	4.0E-06
99	UCART1	2.5E-06	7.5E-06	6.0E-06	5.2E-06	2.3E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.7E-07	4.0E-06
100	UCART1	2.7E-06	8.2E-06	6.5E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.4E-06
101	UCART1	2.9E-06	8.7E-06	6.8E-06	5.9E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.6E-06
102	UCART1	3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.5E-07	4.9E-06
103	UCART1	3.0E-06	9.2E-06	7.3E-06	6.3E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.5E-07	4.9E-06
104	UCART1	3.1E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
105	UCART1	3.2E-06	9.6E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.7E-07	5.1E-06
106	UCART1	3.3E-06	9.9E-06	7.9E-06	6.8E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
107	UCART1	3.6E-06	1.1E-05	8.6E-06	7.4E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.8E-06
108	UCART1	1.8E-06	5.3E-06	4.2E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.6E-07	2.8E-06
109	UCART1	1.8E-06	5.5E-06	4.4E-06	3.8E-06	1.7E-06	0.0E+00	0.0E+00	1.4E-06	1.2E-06	2.7E-07	3.0E-06
110	UCART1	2.0E-06	6.0E-06	4.7E-06	4.1E-06	1.8E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.2E-06
111	UCART1	2.1E-06	6.3E-06	4.9E-06	4.3E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.1E-07	3.3E-06
112	UCART1	2.1E-06	6.5E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.2E-07	3.5E-06
113	UCART1	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
114	UCART1	2.3E-06	6.9E-06	5.5E-06	4.7E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.4E-07	3.7E-06
115	UCART1	2.4E-06	7.4E-06	5.8E-06	5.0E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.6E-07	3.9E-06
116	UCART1	2.5E-06	7.7E-06	6.1E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
117	UCART1	2.7E-06	8.0E-06	6.3E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.3E-06
118	UCART1	2.7E-06	8.2E-06	6.4E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.4E-06
119	UCART1	2.8E-06	8.4E-06	6.6E-06	5.7E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.1E-07	4.5E-06
120	UCART1	2.8E-06	8.6E-06	6.8E-06	5.9E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.6E-06
121	UCART1	2.9E-06	8.9E-06	7.0E-06	6.1E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.7E-06
122	UCART1	3.2E-06	9.6E-06	7.6E-06	6.6E-06	3.0E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.7E-07	5.1E-06
123	UCART2	3.3E-06	1.0E-05	7.9E-06	6.9E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	5.0E-07	5.4E-06
124	UCART2	3.6E-06	1.1E-05	8.6E-06	7.4E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.4E-07	5.8E-06
125	UCART2	3.9E-06	1.2E-05	9.3E-06	8.1E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.8E-07	6.3E-06
126	UCART2	4.3E-06	1.3E-05	1.0E-05	8.9E-06	4.0E-06	0.0E+00	0.0E+00	3.4E-06	2.9E-06	6.4E-07	7.0E-06
127	UCART2	4.7E-06	1.4E-05	1.1E-05	9.7E-06	4.4E-06	0.0E+00	0.0E+00	3.7E-06	3.2E-06	7.0E-07	7.6E-06
128	UCART2	5.2E-06	1.6E-05	1.2E-05	1.1E-05	4.8E-06	0.0E+00	0.0E+00	4.1E-06	3.5E-06	7.8E-07	8.4E-06
129	UCART2	5.8E-06	1.7E-05	1.4E-05	1.2E-05	5.4E-06	0.0E+00	0.0E+00	4.6E-06	3.9E-06	8.6E-07	9.4E-06
130	UCART2	6.5E-06	1.9E-05	1.5E-05	1.3E-05	6.0E-06	0.0E+00	0.0E+00	5.1E-06	4.4E-06	9.6E-07	1.0E-05
131	UCART2	3.2E-06	9.7E-06	7.6E-06	6.6E-06	3.0E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.8E-07	5.2E-06
132	UCART2	3.5E-06	1.0E-05	8.3E-06	7.2E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.4E-06	5.2E-07	5.6E-06
133	UCART2	3.8E-06	1.1E-05	9.0E-06	7.8E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.6E-07	6.1E-06
134	UCART2	4.1E-06	1.2E-05	9.8E-06	8.5E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.6E-06
135	UCART2	4.5E-06	1.4E-05	1.1E-05	9.3E-06	4.2E-06	0.0E+00	0.0E+00	3.5E-06	3.1E-06	6.7E-07	7.2E-06
136	UCART2	4.9E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.3E-07	8.0E-06
137	UCART2	5.4E-06	1.6E-05	1.3E-05	1.1E-05	5.0E-06	0.0E+00	0.0E+00	4.3E-06	3.7E-06	8.1E-07	8.8E-06
138	UCART2	6.0E-06	1.8E-05	1.4E-05	1.2E-05	5.6E-06	0.0E+00	0.0E+00	4.8E-06	4.1E-06	9.0E-07	9.8E-06
139

PHASE 1 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	8.41E-03	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
159	UCART3	439396	3762392.48	439396.01, 3762392.48	1.99469	1.86318	0.00096	1.79429	3.30E-05	1.57E-02	2.40E-06	1.48E-04	1.59E-02
160	UCART3	439446	3762392.48	439446.01, 3762392.48	2.24717	2.0843	0.0011	1.9994	3.72E-05	1.75E-02	2.75E-06	1.64E-04	1.77E-02
161	UCART3	439496	3762392.48	439496.01, 3762392.48	2.55929	2.35279	0.00128	2.24526	4.24E-05	1.98E-02	3.20E-06	1.85E-04	2.00E-02
162	UCART3	439546	3762392.48	439546.01, 3762392.48	2.95141	2.68234	0.0015	2.54662	4.89E-05	2.26E-02	3.75E-06	2.09E-04	2.28E-02
163	UCART3	439196	3762442.48	439196.01, 3762442.48	1.33994	1.27401	0.00061	1.23529	2.22E-05	1.07E-02	1.52E-06	1.02E-04	1.08E-02
164	UCART3	439246	3762442.48	439246.01, 3762442.48	1.47134	1.3942	0.00068	1.34457	2.44E-05	1.17E-02	1.70E-06	1.11E-04	1.19E-02
165	UCART3	439296	3762442.48	439296.01, 3762442.48	1.62606	1.53468	0.00076	1.46832	2.69E-05	1.29E-02	1.90E-06	1.21E-04	1.31E-02
166	UCART3	439346	3762442.48	439346.01, 3762442.48	1.80746	1.69799	0.00086	1.61404	2.99E-05	1.43E-02	2.15E-06	1.33E-04	1.44E-02
167	UCART3	439396	3762442.48	439396.01, 3762442.48	2.02414	1.89107	0.00099	1.78493	3.35E-05	1.59E-02	2.47E-06	1.47E-04	1.61E-02
168	UCART3	439446	3762442.48	439446.01, 3762442.48	2.28665	2.12203	0.00114	1.98796	3.79E-05	1.78E-02	2.85E-06	1.64E-04	1.81E-02
169	UCART3	439496	3762442.48	439496.01, 3762442.48	2.60867	2.40084	0.00132	2.23329	4.32E-05	2.02E-02	3.30E-06	1.84E-04	2.04E-02
170	UCART3	439546	3762442.48	439546.01, 3762442.48	3.01187	2.74282	0.00156	2.53566	4.99E-05	2.31E-02	3.90E-06	2.09E-04	2.33E-02
171	UCART3	439196	3762492.48	439196.01, 3762492.48	1.34559	1.27899	0.00061	1.22889	2.23E-05	1.08E-02	1.52E-06	1.01E-04	1.09E-02
172	UCART3	439246	3762492.48	439246.01, 3762492.48	1.47792	1.40025	0.00068	1.33921	2.45E-05	1.18E-02	1.70E-06	1.10E-04	1.19E-02
173	UCART3	439296	3762492.48	439296.01, 3762492.48	1.63383	1.54217	0.00077	1.46282	2.71E-05	1.30E-02	1.92E-06	1.20E-04	1.31E-02
174	UCART3	439346	3762492.48	439346.01, 3762492.48	1.81796	1.70855	0.00088	1.60626	3.01E-05	1.44E-02	2.20E-06	1.32E-04	1.45E-02
175	UCART3	439396	3762492.48	439396.01, 3762492.48	2.03684	1.9046	0.001	1.77684	3.37E-05	1.60E-02	2.50E-06	1.46E-04	1.62E-02
176	UCART3	439446	3762492.48	439446.01, 3762492.48	2.3016	2.13922	0.00116	1.97963	3.81E-05	1.80E-02	2.90E-06	1.63E-04	1.82E-02
177	UCART3	439496	3762492.48	439496.01, 3762492.48	2.62927	2.42589	0.00135	2.22201	4.36E-05	2.04E-02	3.37E-06	1.83E-04	2.06E-02
178	UCART3	439546	3762492.48	439546.01, 3762492.48	3.03793	2.77761	0.00159	2.52142	5.03E-05	2.34E-02	3.97E-06	2.07E-04	2.36E-02
179	UCART3	439196	3762542.48	439196.01, 3762542.48	1.34539	1.27857	0.0006	1.22045	2.23E-05	1.08E-02	1.50E-06	1.00E-04	1.09E-02
180	UCART3	439246	3762542.48	439246.01, 3762542.48	1.47739	1.3998	0.00068	1.33053	2.45E-05	1.18E-02	1.70E-06	1.09E-04	1.19E-02
181	UCART3	439296	3762542.48	439296.01, 3762542.48	1.63281	1.54176	0.00077	1.45514	2.70E-05	1.30E-02	1.92E-06	1.20E-04	1.31E-02
182	UCART3	439346	3762542.48	439346.01, 3762542.48	1.81571	1.70779	0.00088	1.60016	3.01E-05	1.44E-02	2.20E-06	1.32E-04	1.45E-02
183	UCART3	439396	3762542.48	439396.01, 3762542.48	2.03481	1.90531	0.001	1.76847	3.37E-05	1.60E-02	2.50E-06	1.45E-04	1.62E-02
184	UCART3	439446	3762542.48	439446.01, 3762542.48	2.29896	2.14152	0.00116	1.97085	3.81E-05	1.80E-02	2.90E-06	1.62E-04	1.82E-02
185	UCART3	439496	3762542.48	439496.01, 3762542.48	2.62506	2.43047	0.00136	2.20852	4.35E-05	2.04E-02	3.40E-06	1.82E-04	2.07E-02
186	UCART3	439546	3762542.48	439546.01, 3762542.48	3.0287	2.78403	0.0016	2.51049	5.02E-05	2.34E-02	4.00E-06	2.07E-04	2.37E-02
187	UCART3	439196	3762592.48	439196.01, 3762592.48	1.33911	1.2727	0.00059	1.21007	2.22E-05	1.07E-02	1.47E-06	9.95E-05	1.08E-02
188	UCART3	439246	3762592.48	439246.01, 3762592.48	1.47099	1.39416	0.00067	1.31601	2.44E-05	1.17E-02	1.67E-06	1.08E-04	1.19E-02
189	UCART3	439296	3762592.48	439296.01, 3762592.48	1.62429	1.53473	0.00076	1.44164	2.69E-05	1.29E-02	1.90E-06	1.19E-04	1.31E-02
190	UCART3	439346	3762592.48	439346.01, 3762592.48	1.80442	1.69917	0.00086	1.58786	2.99E-05	1.43E-02	2.15E-06	1.31E-04	1.45E-02
191	UCART3	439396	3762592.48	439396.01, 3762592.48	2.01931	1.89436	0.00099	1.7576	3.34E-05	1.59E-02	2.47E-06	1.45E-04	1.61E-02
192	UCART3	439446	3762592.48	439446.01, 3762592.48	2.27916	2.12916	0.00114	1.95767	3.78E-05	1.79E-02	2.85E-06	1.61E-04	1.81E-02
193	UCART3	439496	3762592.48	439496.01, 3762592.48	2.59868	2.41634	0.00134	2.19496	4.30E-05	2.03E-02	3.35E-06	1.81E-04	2.05E-02
194	UCART3	439546	3762592.48	439546.01, 3762592.48	2.99165	2.76747	0.00157	2.49719	4.96E-05	2.33E-02	3.92E-06	2.05E-04	2.35E-02
195	UCART3	439196	3762642.48	439196.01, 3762642.48	1.32692	1.2616	0.00058	1.19635	2.20E-05	1.06E-02	1.45E-06	9.84E-05	1.07E-02
196	UCART3	439246	3762642.48	439246.01, 3762642.48	1.45644	1.38126	0.00065	1.29738	2.41E-05	1.16E-02	1.62E-06	1.07E-04	1.17E-02
197	UCART3	439296	3762642.48	439296.01, 3762642.48	1.6058	1.5189	0.00073	1.42961	2.66E-05	1.28E-02	1.82E-06	1.18E-04	1.29E-02
198	UCART3	439346	3762642.48	439346.01, 3762642.48	1.78111	1.67992	0.00083	1.57669	2.95E-05	1.41E-02	2.07E-06	1.30E-04	1.43E-02
199	UCART3	439396	3762642.48	439396.01, 3762642.48	1.99106	1.87216	0.00095	1.74398	3.30E-05	1.57E-02	2.37E-06	1.43E-04	1.59E-02
200	UCART3	439446	3762642.48	439446.01, 3762642.48	2.24331	2.10251	0.0011	1.94357	3.72E-05	1.77E-02	2.75E-06	1.60E-04	1.79E-02
201	UCART3	439496	3762642.48	439496.01, 3762642.48	2.55164	2.38348	0.00128	2.17452	4.23E-05	2.00E-02	3.20E-06	1.79E-04	2.03E-02
202	UCART3	439546	3762642.48	439546.01, 3762642.48	2.92905	2.72703	0.00151	2.47319	4.85E-05	2.29E-02	3.77E-06	2.03E-04	2.32E-02
203	UCART3	439196	3762692.48	439196.01, 3762692.48	1.30894	1.24534	0.00055	1.17592	2.17E-05	1.05E-02	1.37E-06	9.67E-05	1.06E-02
204	UCART3	439246	3762692.48	439246.01, 3762692.48	1.43452	1.3618	0.00062	1.28105	2.38E-05	1.15E-02	1.55E-06	1.05E-04	1.16E-02
205	UCART3	439296	3762692.48	439296.01, 3762692.48	1.58059	1.49697	0.00069	1.40085	2.62E-05	1.26E-02	1.72E-06	1.15E-04	1.27E-02
206	UCART3	439346	3762692.48	439346.01, 3762692.48	1.7511	1.6545	0.00079	1.54598	2.90E-05	1.39E-02	1.97E-06	1.27E-04	1.41E-02
207	UCART3	439396	3762692.48	439396.01, 3762692.48	1.95146	1.83936	0.0009	1.7256	3.23E-05	1.55E-02	2.25E-06	1.42E-04	1.56E-02
208	UCART3	439446	3762692.48	439446.01, 3762692.48	2.19291	2.06185	0.00104	1.92099	3.63E-05	1.73E-02	2.60E-06	1.58E-04	1.75E-02
209	UCART3	439496	3762692.48	439496.01, 3762692.48	2.48654	2.33243	0.0012	2.15196	4.12E-05	1.96E-02	3.00E-06	1.77E-04	1.98E-02
210	UCART3	439546	3762692.48	439546.01, 3762692.48	2.84401	2.6626	0.00141	2.44952	4.71E-05	2.24E-02	3.52E-06	2.01E-04	2.26E-02
211	UCART3	439196	3762742.48	439196.01, 3762742.48	1.2856	1.22422	0.00052	1.15577	2.13E-05	1.03E-02	1.30E-06	9.51E-05	1.04E-02
212	UCART3	439246	3762742.48	439246.01, 3762742.48	1.40622	1.33649	0.00058	1.26295	2.33E-05	1.12E-02	1.45E-06	1.04E-04	1.14E-02
213	UCART3	439296	3762742.48	439296.01, 3762742.48	1.54647	1.46678	0.00065	1.3806	2.56E-05	1.23E-02	1.62E-06	1.14E-04	1.25E-02
214	UCART3	439346	3762742.48	439346.01, 3762742.48	1.70953	1.61812	0.00074	1.52332	2.83E-05	1.36E-02	1.85E-06	1.25E-04	1.38E-02
215	UCART3	439396	3762742.48	439396.01, 3762742.48	1.90147	1.79617	0.00083	1.69013	3.15E-05	1.51E-02	2.07E-06	1.39E-04	1.53E-02
216	UCART3	439446	3762742.48	439446.01, 3762742.48	2.12978	2.00799	0.00096	1.88828	3.53E-05	1.69E-02	2.40E-06	1.55E-04	1.71E-02
217	UCART3	439496	3762742.48	439496.01, 3762742.48	2.40565	2.26437	0.0011	2.11844	3.98E-05	1.90E-02	2.75E-06	1.74E-04	1.93E-02
218	UCART3	439546	3762742.48	439546.01, 3762742.48	2.7394	2.57583	0.00129	2.41973	4.54E-05	2.17E-02	3.22E-06	1.99E-04	2.19E-02
219	UCART3	439196	3762792.48	439196.01, 3762792.48	1.25743	1.19859	0.00049	1.13092	2.08E-05	1.01E-02	1.22E-06	9.30E-05	1.02E-02
220	UCART3	439246	3762792.48	439246.01, 3762792.48	1.37242	1.30592	0.00054	1.2439	2.27E-05	1.10E-02	1.35E-06	1.02E-04	1.11E-02
221	UCART3	439296	3762792.48	439296.01, 3762792.48	1.50592	1.43032	0.00061	1.3564	2.49E-05	1.20E-02	1.52E-06	1.12E-04	1.22E-02
222	UCART3	439346	3762792.48	439346.01, 3762792.48	1.66061	1.57438	0.00068	1.49374	2.75E-05	1.32E-02	1.70E-06	1.23E-04	1.34E-02
223	UCART3	439396	3762792.48	439396.01, 3762792.48	1.84153	1.74289	0.00076	1.65745	3.05E-05	1.47E-02	1.90E-06	1.36E-04	1.48E-02
224	UCART3	439446	3762792.48	439446.01, 3762792.48	2.05484	1.94177	0.00087	1.856	3.40E-05	1.63E-02	2.17E-06	1.53E-04	1.65E-02
225	UCART3	439496	3762792.48	439496.01, 3762792.48	2.30977	2.18084	0.001	2.08834	3.83E-05	1.83E-02	2.50E-06	1.72E-04	1.86E-02
226	UCART3	439546	3762792.48	439546.01, 3762792.48	2.6138	2.46981	0.00116	2.38858	4.33E-05	2.08E-02	2.90E-06	1.96E-04	2.10E-02
227	UCART3	439196	3762842.48	439196.01, 3762842.48	1.22223	1.16909	0.00046	1.10975	2.02E-05	9.83E-03	1.15E-06	9.13E-05	9.95E-03
228	UCART3	439246	3762842.48	439246.01, 3762842.48	1.33444	1.2712	0.00051	1.21663	2.21E-05	1.07E-02	1.27E-06	1.00E-04	1.08E-02
229	UCART3	439296	3762842.48	439296.01, 3762842.48	1.45995	1.38844	0.00056	1.33325	2.42E-05	1.17E-02	1.40E-06	1.10E-04	1.18E-02
230	UCART3	439346	3762842.48	439346.01, 3762842.48	1.60487	1.52377	0.00062	1.46952	2.66E-05	1.28E-02	1.55E-06	1.21E-04	1.30E-02
231	UCART3	439396	3762842.48	439396.01, 3762842.48	1.77293	1.68134	0.00069	1.6281	2.94E-05	1.41E-02	1.72E-06	1.34E-04	1.43E-02
232	UCART3	439446	3762842.48	439446.01, 3762842.48	1.97043	1.86617	0.00078	1.82259	3.26E-05	1.57E-02	1.95E-06	1.50E-04	1.59E-02
233	UCART3	439496	3762842.48	439496.01, 3762842.48	2.19867	2.08356	0.00089	2.05569	3.64E-05	1.75E-02	2.22E-06	1.69E-04	1.77E-02
234	UCART3	439546	3762842.48	439546.01, 3762842.48	2.47598	2.33642	0.00102	2.35154	4.10E-05	1.97E-02	2.55E-06	1.93E-04	1.99E-02
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	3.29602	2.98831	0.00173	2.72813	5.46E-05	2.51E-02	4.32E-06	2.24E-04	2.54E-02
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	3.90251	3.48618	0.00209	3.16517	6.46E-05	2.93E-02	5.22E-06	2.60E-04	2.97E-02
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	4.7151	4.12785	0.00256	3.7634	7.81E-05	3.47E-02	6.39E-06	3.10E-04	3.51E-02

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
5.5E-06	1.7E-05	1.3E-05	1.1E-05	5.1E-06	0.0E+00	0.0E+00	4.3E-06	3.7E-06	8.2E-07	8.9E-06
6.1E-06	1.9E-05	1.5E-05	1.3E-05	5.7E-06	0.0E+00	0.0E+00	4.8E-06	4.2E-06	9.1E-07	9.9E-06
6.9E-06	2.1E-05	1.7E-05	1.4E-05	6.4E-06	0.0E+00	0.0E+00	5.5E-06	4.7E-06	1.0E-06	1.1E-05
7.9E-06	2.4E-05	1.9E-05	1.6E-05	7.3E-06	0.0E+00	0.0E+00	6.2E-06	5.4E-06	1.2E-06	1.3E-05
3.8E-06	1.1E-05	8.9E-06	7.7E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.6E-07	6.1E-06
4.1E-06	1.2E-05	9.8E-06	8.5E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.6E-06
4.5E-06	1.4E-05	1.1E-05	9.3E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.7E-07	7.3E-06
5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.5E-07	8.1E-06
5.6E-06	1.7E-05	1.3E-05	1.1E-05	5.2E-06	0.0E+00	0.0E+00	4.4E-06	3.8E-06	8.3E-07	9.0E-06
6.2E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.9E-06	4.3E-06	9.3E-07	1.0E-05
7.1E-06	2.1E-05	1.7E-05	1.5E-05	6.6E-06	0.0E+00	0.0E+00	5.6E-06	4.8E-06	1.1E-06	1.1E-05
8.1E-06	2.4E-05	1.9E-05	1.7E-05	7.5E-06	0.0E+00	0.0E+00	6.4E-06	5.5E-06	1.2E-06	1.3E-05
3.8E-06	1.1E-05	9.0E-06	7.8E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.6E-07	6.1E-06
4.1E-06	1.2E-05	9.8E-06	8.5E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.7E-06
4.5E-06	1.4E-05	1.1E-05	9.4E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.3E-06
5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.7E-06	0.0E+00	0.0E+00	4.0E-06	3.4E-06	7.5E-07	8.1E-06
5.6E-06	1.7E-05	1.3E-05	1.2E-05	5.2E-06	0.0E+00	0.0E+00	4.4E-06	3.8E-06	8.4E-07	9.1E-06
6.3E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	5.0E-06	4.3E-06	9.4E-07	1.0E-05
7.1E-06	2.2E-05	1.7E-05	1.5E-05	6.6E-06	0.0E+00	0.0E+00	5.6E-06	4.9E-06	1.1E-06	1.2E-05
8.2E-06	2.5E-05	2.0E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	6.4E-06	5.6E-06	1.2E-06	1.3E-05
3.8E-06	1.1E-05	9.0E-06	7.8E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.6E-07	6.1E-06
4.1E-06	1.2E-05	9.8E-06	8.5E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.7E-06
4.5E-06	1.4E-05	1.1E-05	9.4E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.3E-06
5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.7E-06	0.0E+00	0.0E+00	4.0E-06	3.4E-06	7.5E-07	8.1E-06
5.6E-06	1.7E-05	1.3E-05	1.2E-05	5.2E-06	0.0E+00	0.0E+00	4.4E-06	3.8E-06	8.4E-07	9.1E-06
6.3E-06	1.9E-05	1.5E-05	1.3E-05	5.9E-06	0.0E+00	0.0E+00	5.0E-06	4.3E-06	9.4E-07	1.0E-05
7.2E-06	2.2E-05	1.7E-05	1.5E-05	6.6E-06	0.0E+00	0.0E+00	5.6E-06	4.9E-06	1.1E-06	1.2E-05
8.2E-06	2.5E-05	2.0E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	6.5E-06	5.6E-06	1.2E-06	1.3E-05
3.7E-06	1.1E-05	8.9E-06	7.7E-06	3.5E-06	0.0E+00	0.0E+00	2.9E-06	2.6E-06	5.6E-07	6.1E-06
4.1E-06	1.2E-05	9.8E-06	8.5E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.6E-06
4.5E-06	1.4E-05	1.1E-05	9.3E-06	4.2E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.7E-07	7.3E-06
5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.5E-07	8.1E-06
5.6E-06	1.7E-05	1.3E-05	1.2E-05	5.2E-06	0.0E+00	0.0E+00	4.4E-06	3.8E-06	8.3E-07	9.0E-06
6.3E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.9E-06	4.3E-06	9.3E-07	1.0E-05
7.1E-06	2.1E-05	1.7E-05	1.5E-05	6.6E-06	0.0E+00	0.0E+00	5.6E-06	4.8E-06	1.1E-06	1.2E-05
8.1E-06	2.5E-05	1.9E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	6.4E-06	5.5E-06	1.2E-06	1.3E-05
3.7E-06	1.1E-05	8.9E-06	7.7E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.5E-07	6.0E-06
4.1E-06	1.2E-05	9.7E-06	8.4E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.6E-06
4.5E-06	1.4E-05	1.1E-05	9.2E-06	4.2E-06	0.0E+00	0.0E+00	3.5E-06	3.0E-06	6.7E-07	7.2E-06
4.9E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.4E-07	8.0E-06
5.5E-06	1.7E-05	1.3E-05	1.1E-05	5.1E-06	0.0E+00	0.0E+00	4.3E-06	3.8E-06	8.2E-07	8.9E-06
6.2E-06	1.9E-05	1.5E-05	1.3E-05	5.7E-06	0.0E+00	0.0E+00	4.9E-06	4.2E-06	9.2E-07	1.0E-05
7.0E-06	2.1E-05	1.7E-05	1.4E-05	6.5E-06	0.0E+00	0.0E+00	5.5E-06	4.8E-06	1.0E-06	1.1E-05
8.0E-06	2.4E-05	1.9E-05	1.7E-05	7.4E-06	0.0E+00	0.0E+00	6.3E-06	5.5E-06	1.2E-06	1.3E-05
3.7E-06	1.1E-05	8.7E-06	7.6E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.5E-07	5.9E-06
4.0E-06	1.2E-05	9.6E-06	8.3E-06	3.7E-06	0.0E+00	0.0E+00	3.2E-06	2.7E-06	6.0E-07	6.5E-06
4.4E-06	1.3E-05	1.1E-05	9.1E-06	4.1E-06	0.0E+00	0.0E+00	3.5E-06	3.0E-06	6.6E-07	7.1E-06
4.9E-06	1.5E-05	1.2E-05	1.0E-05	4.5E-06	0.0E+00	0.0E+00	3.8E-06	3.3E-06	7.3E-07	7.9E-06
5.4E-06	1.6E-05	1.3E-05	1.1E-05	5.0E-06	0.0E+00	0.0E+00	4.3E-06	3.7E-06	8.1E-07	8.8E-06
6.1E-06	1.8E-05	1.4E-05	1.3E-05	5.6E-06	0.0E+00	0.0E+00	4.8E-06	4.1E-06	9.0E-07	9.8E-06
6.9E-06	2.1E-05	1.6E-05	1.4E-05	6.4E-06	0.0E+00	0.0E+00	5.4E-06	4.7E-06	1.0E-06	1.1E-05
7.8E-06	2.4E-05	1.9E-05	1.6E-05	7.3E-06	0.0E+00	0.0E+00	6.2E-06	5.3E-06	1.2E-06	1.3E-05
3.6E-06	1.1E-05	8.6E-06	7.4E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.5E-06	5.4E-07	5.8E-06
3.9E-06	1.2E-05	9.4E-06	8.1E-06	3.7E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.9E-07	6.4E-06
4.3E-06	1.3E-05	1.0E-05	8.9E-06	4.0E-06	0.0E+00	0.0E+00	3.4E-06	2.9E-06	6.4E-07	7.0E-06
4.8E-06	1.4E-05	1.1E-05	9.8E-06	4.4E-06	0.0E+00	0.0E+00	3.8E-06	3.2E-06	7.1E-07	7.7E-06
5.3E-06	1.6E-05	1.3E-05	1.1E-05	4.9E-06	0.0E+00	0.0E+00	4.2E-06	3.6E-06	7.9E-07	8.6E-06
5.9E-06	1.8E-05	1.4E-05	1.2E-05	5.5E-06	0.0E+00	0.0E+00	4.7E-06	4.0E-06	8.8E-07	9.6E-06
6.7E-06	2.0E-05	1.6E-05	1.4E-05	6.2E-06	0.0E+00	0.0E+00	5.2E-06	4.5E-06	9.9E-07	1.1E-05
7.6E-06	2.3E-05	1.8E-05	1.6E-05	7.0E-06	0.0E+00	0.0E+00	6.0E-06	5.2E-06	1.1E-06	1.2E-05
3.5E-06	1.1E-05	8.4E-06	7.3E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.7E-06
3.8E-06	1.2E-05	9.2E-06	7.9E-06	3.6E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.7E-07	6.2E-06
4.2E-06	1.3E-05	1.0E-05	8.7E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.3E-07	6.8E-06
4.6E-06	1.4E-05	1.1E-05	9.6E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.2E-06	6.9E-07	7.5E-06
5.1E-06	1.5E-05	1.2E-05	1.1E-05	4.8E-06	0.0E+00	0.0E+00	4.0E-06	3.5E-06	7.6E-07	8.3E-06
5.7E-06	1.7E-05	1.4E-05	1.2E-05	5.3E-06	0.0E+00	0.0E+00	4.5E-06	3.9E-06	8.5E-07	9.2E-06
6.4E-06	1.9E-05	1.5E-05	1.3E-05	6.0E-06	0.0E+00	0.0E+00	5.

PHASE 1 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	8.41E-03	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	5.85377	4.97834	0.00324	4.62578	9.70E-05	4.19E-02	8.09E-06	3.81E-04	4.24E-02	1.5E-05	4.4E-05	3.5E-05	3.0E-05	1.4E-05	0.0E+00	0.0E+00	1.2E-05	1.0E-05	2.2E-06	2.4E-05
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	7.56054	6.15456	0.00426	6.03202	1.25E-04	5.18E-02	1.06E-05	4.96E-04	5.24E-02	1.8E-05	5.5E-05	4.3E-05	3.7E-05	1.7E-05	0.0E+00	0.0E+00	1.4E-05	1.2E-05	2.7E-06	2.9E-05
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	10.36298	7.87647	0.00593	8.86081	1.72E-04	6.62E-02	1.48E-05	7.29E-04	6.72E-02	2.3E-05	7.0E-05	5.5E-05	4.8E-05	2.2E-05	0.0E+00	0.0E+00	1.8E-05	1.6E-05	3.5E-06	3.8E-05
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	15.50182	10.73908	0.00902	14.69801	2.57E-04	9.03E-02	2.25E-05	1.21E-03	9.18E-02	3.2E-05	9.6E-05	7.6E-05	6.6E-05	2.9E-05	0.0E+00	0.0E+00	2.5E-05	2.2E-05	4.7E-06	5.1E-05
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	3.30072	3.01084	0.00176	2.71564	5.47E-05	2.53E-02	4.39E-06	2.23E-04	2.56E-02	8.9E-06	2.7E-05	2.1E-05	1.8E-05	8.2E-06	0.0E+00	0.0E+00	7.0E-06	6.0E-06	1.3E-06	1.4E-05
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	3.89831	3.51574	0.00211	3.1555	6.46E-05	2.96E-02	5.27E-06	2.60E-04	2.99E-02	1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.6E-06	0.0E+00	0.0E+00	8.1E-06	7.0E-06	1.5E-06	1.7E-05
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	4.6926	4.17054	0.00257	3.75148	7.77E-05	3.51E-02	6.42E-06	3.09E-04	3.55E-02	1.2E-05	3.7E-05	2.9E-05	2.5E-05	1.1E-05	0.0E+00	0.0E+00	9.7E-06	8.4E-06	1.8E-06	2.0E-05
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	5.78314	5.0405	0.0032	4.61683	9.58E-05	4.24E-02	7.99E-06	3.80E-04	4.29E-02	1.5E-05	4.5E-05	3.5E-05	3.1E-05	1.4E-05	0.0E+00	0.0E+00	1.2E-05	1.0E-05	2.2E-06	2.4E-05
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	7.34859	6.23371	0.0041	6.02354	1.22E-04	5.24E-02	1.02E-05	4.95E-04	5.31E-02	1.8E-05	5.5E-05	4.4E-05	3.8E-05	1.7E-05	0.0E+00	0.0E+00	1.4E-05	1.3E-05	2.7E-06	3.0E-05
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	9.75147	7.94567	0.00548	8.85378	1.62E-04	6.68E-02	1.37E-05	7.28E-04	6.77E-02	2.3E-05	7.1E-05	5.6E-05	4.8E-05	2.2E-05	0.0E+00	0.0E+00	1.8E-05	1.6E-05	3.5E-06	3.8E-05
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	14.24491	10.67204	0.00774	14.68127	2.36E-04	8.98E-02	1.93E-05	1.21E-03	9.12E-02	3.2E-05	9.5E-05	7.5E-05	6.5E-05	2.9E-05	0.0E+00	0.0E+00	2.5E-05	2.2E-05	4.7E-06	5.1E-05
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	3.26976	3.00499	0.00175	2.70376	5.42E-05	2.53E-02	4.37E-06	2.22E-04	2.56E-02	8.8E-06	2.7E-05	2.1E-05	1.8E-05	8.2E-06	0.0E+00	0.0E+00	7.0E-06	6.0E-06	1.3E-06	1.4E-05
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	3.84908	3.51095	0.0021	3.14493	6.38E-05	2.95E-02	5.24E-06	2.59E-04	2.99E-02	1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.6E-06	0.0E+00	0.0E+00	8.1E-06	7.0E-06	1.5E-06	1.7E-05
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	4.60793	4.1672	0.00255	3.73098	7.63E-05	3.50E-02	6.37E-06	3.07E-04	3.54E-02	1.2E-05	3.7E-05	2.9E-05	2.5E-05	1.1E-05	0.0E+00	0.0E+00	9.7E-06	8.4E-06	1.8E-06	2.0E-05
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	5.62564	5.03784	0.00315	4.60023	9.32E-05	4.24E-02	7.87E-06	3.78E-04	4.28E-02	1.5E-05	4.5E-05	3.5E-05	3.1E-05	1.4E-05	0.0E+00	0.0E+00	1.2E-05	1.0E-05	2.2E-06	2.4E-05
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	7.03667	6.23152	0.00399	6.01436	1.17E-04	5.24E-02	9.96E-06	4.95E-04	5.30E-02	1.8E-05	5.5E-05	4.4E-05	3.8E-05	1.7E-05	0.0E+00	0.0E+00	1.4E-05	1.3E-05	2.7E-06	3.0E-05
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	9.08797	7.93784	0.00526	8.85979	1.51E-04	6.68E-02	1.31E-05	7.29E-04	6.77E-02	2.3E-05	7.1E-05	5.6E-05	4.8E-05	2.2E-05	0.0E+00	0.0E+00	1.8E-05	1.6E-05	3.5E-06	3.8E-05
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	12.4076	10.56913	0.00733	14.40428	2.06E-04	8.89E-02	1.83E-05	1.18E-03	9.03E-02	3.1E-05	9.4E-05	7.5E-05	6.5E-05	2.9E-05	0.0E+00	0.0E+00	2.5E-05	2.1E-05	4.7E-06	5.1E-05
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	3.20828	2.97213	0.0017	2.68466	5.31E-05	2.50E-02	4.25E-06	2.21E-04	2.53E-02	8.7E-06	2.6E-05	2.1E-05	1.8E-05	8.1E-06	0.0E+00	0.0E+00	6.9E-06	6.0E-06	1.3E-06	1.4E-05
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	3.76079	3.47026	0.00204	3.11986	6.23E-05	2.92E-02	5.09E-06	2.57E-04	2.95E-02	1.0E-05	3.1E-05	2.4E-05	2.1E-05	9.5E-06	0.0E+00	0.0E+00	8.0E-06	7.0E-06	1.5E-06	1.7E-05
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	4.47402	4.11477	0.00248	3.72276	7.41E-05	3.46E-02	6.19E-06	3.06E-04	3.50E-02	1.2E-05	3.7E-05	2.9E-05	2.5E-05	1.1E-05	0.0E+00	0.0E+00	9.5E-06	8.2E-06	1.8E-06	2.0E-05
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	5.41764	4.97416	0.00309	4.5936	8.97E-05	4.18E-02	7.72E-06	3.78E-04	4.23E-02	1.5E-05	4.4E-05	3.5E-05	3.0E-05	1.4E-05	0.0E+00	0.0E+00	1.2E-05	1.0E-05	2.2E-06	2.4E-05
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	6.69295	6.15485	0.00396	6.0156	1.11E-04	5.18E-02	9.89E-06	4.95E-04	5.24E-02	1.8E-05	5.5E-05	4.3E-05	3.7E-05	1.7E-05	0.0E+00	0.0E+00	1.4E-05	1.2E-05	2.7E-06	2.9E-05
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	8.47621	7.86209	0.00535	8.87258	1.40E-04	6.61E-02	1.34E-05	7.30E-04	6.70E-02	2.3E-05	7.0E-05	5.5E-05	4.8E-05	2.2E-05	0.0E+00	0.0E+00	1.8E-05	1.6E-05	3.5E-06	3.8E-05
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	11.06304	10.53875	0.00792	14.26389	1.83E-04	8.86E-02	1.98E-05	1.17E-03	9.00E-02	3.1E-05	9.4E-05	7.4E-05	6.4E-05	2.9E-05	0.0E+00	0.0E+00	2.5E-05	2.1E-05	4.6E-06	5.0E-05
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	3.11987	2.91092	0.00161	2.66015	5.17E-05	2.45E-02	4.02E-06	2.19E-04	2.48E-02	8.6E-06	2.6E-05	2.0E-05	1.8E-05	8.0E-06	0.0E+00	0.0E+00	6.7E-06	5.8E-06	1.3E-06	1.4E-05
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	3.64225	3.39408	0.00193	3.09258	6.03E-05	2.85E-02	4.82E-06	2.54E-04	2.89E-02	1.0E-05	3.0E-05	2.4E-05	2.1E-05	9.3E-06	0.0E+00	0.0E+00	7.9E-06	6.8E-06	1.5E-06	1.6E-05
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	4.30721	4.01561	0.00236	3.70197	7.13E-05	3.38E-02	5.89E-06	3.05E-04	3.42E-02	1.2E-05	3.6E-05	2.8E-05	2.4E-05	1.1E-05	0.0E+00	0.0E+00	9.3E-06	8.1E-06	1.8E-06	1.9E-05
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	5.17851	4.84578	0.00297	4.58724	8.58E-05	4.08E-02	7.42E-06	3.77E-04	4.12E-02	1.4E-05	4.3E-05	3.4E-05	2.9E-05	1.3E-05	0.0E+00	0.0E+00	1.1E-05	9.7E-06	2.1E-06	2.3E-05
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	6.3535	6.00198	0.00389	6.02182	1.05E-04	5.05E-02	9.71E-06	4.95E-04	5.11E-02	1.8E-05	5.3E-05	4.2E-05	3.6E-05	1.6E-05	0.0E+00	0.0E+00	1.4E-05	1.2E-05	2.6E-06	2.9E-05
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	7.98706	7.69369	0.00541	8.92585	1.32E-04	6.47E-02	1.35E-05	7.34E-04	6.56E-02	2.3E-05	6.9E-05	5.4E-05	4.7E-05	2.1E-05	0.0E+00	0.0E+00	1.8E-05	1.5E-05	3.4E-06	3.7E-05
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	10.36994	10.38128	0.00826	14.2807	1.72E-04	8.73E-02	2.06E-05	1.17E-03	8.87E-02	3.1E-05	9.3E-05	7.3E-05	6.3E-05	2.8E-05	0.0E+00	0.0E+00	2.4E-05	2.1E-05	4.6E-06	5.0E-05
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	0.63999	0.63577	0.00016	0.85099	1.06E-05	5.35E-03	4.00E-07	7.00E-05	5.43E-03	1.9E-06	5.7E-06	4.5E-06	3.9E-06	1.7E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.8E-07	3.0E-06
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	0.66072	0.65726	0.00018	0.90562	1.09E-05	5.53E-03	4.49E-07	7.45E-05	5.61E-03	1.9E-06	5.9E-06	4.6E-06	4.0E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.9E-07	3.1E-06
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	0.68329	0.68067	0.00019	0.96903	1.13E-05	5.72E-03	4.74E-07	7.97E-05	5.82E-03	2.0E-06	6.1E-06	4.8E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.3E-06
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	0.70617	0.70451	0.00021	1.04087	1.17E-05	5.93E-03	5.24E-07	8.56E-05	6.02E-03	2.1E-06	6.3E-06	5.0E-06	4.3E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.1E-07	3.4E-06
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	0.72953	0.72892	0.00023	1.12339	1.21E-05	6.13E-03	5.74E-07	9.24E-05	6.24E-03	2.2E-06	6.5E-06	5.1E-06	4.5E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.2E-07	3.5E-06
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	0.7532	0.75376	0.00025	1.21913	1.25E-05	6.34E-03	6.24E-07	1.00E-04	6.45E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	0.77689	0.77876	0.00028	1.3315	1.29E-05	6.55E-03	6.99E-07	1.10E-04	6.67E-03	2.3E-06	7.0E-06	5.5E-06	4.8E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.4E-07	3.7E-06
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	0.80175	0.80508	0.0003	1.46866	1.33E-05	6.77E-03	7.49E-07	1.21E-04	6.91E-03	2.4E-06	7.2E-06	5.7E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.6E-07	3.9E-06
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	0.82524	0.83024	0.00031	1.63437	1.37E-05	6.98E-03	7.74E-07	1.34E-04	7.13E-03	2.5E-06	7.5E-06	5.9E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.7E-07	4.0E-06
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	0.67015	0.66444	0.00017	0.88221	1.11E-05	5.59E-03	4.25E-07	7.26E-05	5.67E-03	2.0E-06	5.9E-06	4.7E-06	4.1E-06	1.8E-06	0.0E+00	0.0E+00	1.5E-06	1.3E-06	2.9E-07	3.2E-06
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	0.69491	0.68989	0.00018	0.94299	1.15E-05	5.80E-03	4.49E-07	7.76E-05	5.89E-03	2.0E-06	6.2E-06	4.9E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.0E-07	3.3E-06
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	0.72147	0.71727	0.0002	1.01332	1.20E-05	6.03E-03	4.99E-07	8.34E-05	6.13E-03	2.1E-06	6.4E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.4E-06	3.2E-07	3.4E-06
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	0.74576	0.74262	0.00022	1.08989	1.24E-05	6.25E-03	5.49E-07	8.97E-05	6.35E-03	2.2E-06	6.6E-06	5.2E-06	4.5E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.3E-07	3.6E-06
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	0.77104	0.76909	0.00024	1.17899	1.28E-05	6.47E-03	5.99E-07	9.70E-05	6.58E-03	2.3E-06	6.9E-06	5.4E-06	4.7E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.4E-07	3.7E-06
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	0.79696	0.79633	0.00026	1.28353	1.32E-05	6.70E-03	6.49E-07	1.06E-04	6.82E-03	2.4E-06	7.1E-06	5.6E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.5E-07	3.8E-06
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	0.82319	0.82404	0.00029	1.40776	1.36E-05	6.93E-03	7.24E-07	1.16E-04	7.06E-03	2.4E-06	7.4E-06	5.8E-06	5.0E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.6E-07	4.0E-06
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	0.85163	0.85413	0.00031	1.56288	1.41E-05	7.18E-03	7.74E-07	1.29E-04	7.33E-03	2.5E-06	7.7E-06	6.0E-06	5.2E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	0.87894	0.88333	0.00033	1.75379	1.46E-05	7.43E-03	8.24E-07	1.44E-04	7.59E-03	2.6E-06	7.9E-06	6.3E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.2E-06
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	0.7016	0.69415	0.00017	0.91256	1.16E-05	5.84E-03	4.25E-07	7.51E-05	5.93E-03	2.1E-06	6.2E-06	4.9E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.6E-06	1.4E-06	3.1E-07	3.3E-06
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	0.72908	0.72226	0.00019	0.97726	1.21E-05	6.07E-03	4.74E-07	8.04E-05	6.17E-03	2.1E-06	6.4E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.2E-07	3.5E-06
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	0.75811	0.75209	0.0002	1.05178	1.26E-05	6.33E-03	4.99E-07	8.65E-05	6.42E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	0.78569	0.78074	0.00022	1.13446	1.30E-05	6.57E-03	5.49E-07	9.33E-05	6.67E-03	2.3E-06	7.0E-06	5.5E-06	4.8E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.4E-07	3.7E-06
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	0.81355	0.80989	0.00024	1.22984	1.35E-05	6.81E-03	5.99E-07	1.01E-04	6.93E-03	2.4E-06	7.2E-06	5.7E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.6E-07	3.9E-06
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	0.84379	0.84156	0.00027	1.34505	1.40E-05	7.08E-03	6.74E-07	1.11E-04	7.20E-03	2.5E-06	7.5E-06	5.9E-06	5.1E-06	2.3E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.7E-07	4.0E-06
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	0.87423	0.87364	0.0003	1.48247	1.45E-05	7.35E-03	7.49E-07	1.22E-04	7.48E-03	2.6E-06	7.8E-06	6.2E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.8E-06	3.9E-07	4.2E-06
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	0.90533	0.90661	0.00033	1.6513	1.50E-05	7.62E-03	8.24E-07	1.36E-04	7.78E-03	2.7E-06	8.1E-06	6.4E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.4E-06
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	0.93733	0.94077	0.00035	1.86569	1.55E-05	7.91E-03	8.74E-07	1.53E-04	8.08E-03	2.8E-06	8.4E-06	6.7E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.5E-06
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	0.73421	0.72478	0.00018	0.94178	1.22E-05	6.10E-03	4.99E-07	7.75E-05	6.19E-03	2.1E-06	6.5E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.7E-06	1.5E-06	3.2E-07	3.5E-06
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	0.7643	0.75538	0.00019	1.00969	1.27E-05	6.35E-03	4.74E-07	8.31E-05	6.45E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	0.79663	0.7884	0.00021	1.08859	1.32E-05	6.63E-03	5.24E-07	8.95E-05	6.73E-03	2.3E-06	7.0E-06	5.6E-06	4.8E-06	2.2E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.5E-07	3.8E-06
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	0.82923	0.82199	0.00023	1.17864	1.37E-05	6.91E-03	5.74E-07	9.70E-05	7.02E-03	2.4E-06	7.3E-06	5.8E-06	5.0E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.6E-07	3.9E-06
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	0.86092	0.85498	0.00025	1.28106	1.43E-05	7.19E-03	6.24E-07	1.05E-04	7.31E-03	2.5E-06	7.6E-06	6.0E-06	5.2E-06	2.3E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	0.89579	0.89135	0.00028	1.40589	1.48E-05	7.50E-03	6.99E-07	1.16E-04	7.63E-03	2.6E-06	8.0E-06	6.3E-06	5.4E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.3E-06
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	0.93143	0.92878	0.00031	1.55621	1.54E-05	7.81E-03	7.74E-07	1.28E-04	7.96E-03	2.8E-06	8.3E-06	6.6E-06	5.7E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.1E-07	4.5E-06
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	0.96609	0.96558	0.00034	1.73802	1.60E-05	8.12E-03	8.49E-07	1.43E-04	8.28E-03	2.9E-06	8.7E-06	6.8E-06	5.9E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.6E-06
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	1.0033	1.00524	0.00038	1.97289	1.66E-05	8.45E-03	9.49E-07	1.62E-04	8.63E-03	3.0E-06	9.0E-06	7.1E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.0E-06	4.5E-07	4.8E-06
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	0.76747	0.75582	0.00019	0.9693	1.27E-05	6.36E-03	4.74E-07	7.97E-05	6.45E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.8E-06	1.5E-06	3.3E-07	3.6E-06
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	0.80186	0.79049	0.0002	1.0416	1.33E-05	6.65E-03	4.99E-07	8.57E-05	6.75E-03	2.3E-06	7.1E-06	5.6E-06	4.8E-06	2.2E-06	0.0E+00	0.0E+00	1.8E-06	1.6E-06	3.5E-07	3.8E-06
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	0.83848	0.82759	0.00022	1.12523	1.39E-05	6.96E-03	5.49E-07	9.26E-05	7.07E-03	2.4E-06	7.4E-06	5.8E-06	5.0E-06	2.3E-06	0.0E+00	0.0E+00	1.9E-06	1.7E-06	3.6E-07	4.0E-06
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	0.87602	0.86594	0.00024	1.2214	1.45E-05	7.28E-03	5.99E-07	1.00E-04	7.40E-03	2.6E-06	7.7E-06	6.1E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	0.91349	0.9046	0.00026	1.33217	1.51E-05	7.61E-03	6.49E-07	1.10E-04	7.73E-03	2.7E-06	8.1E-06	6.4E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.3E-06
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92

PHASE 1 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	8.41E-03	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
317	UCART5	439252.4	3761698.92	439252.35, 3761698.92	0.88022	0.86634	0.00023	1.15771	1.46E-05	7.29E-03	5.74E-07	9.52E-05	7.40E-03
318	UCART5	439302.4	3761698.92	439302.35, 3761698.92	0.92348	0.91009	0.00025	1.2595	1.53E-05	7.65E-03	6.24E-07	1.04E-04	7.77E-03
319	UCART5	439352.4	3761698.92	439352.35, 3761698.92	0.96865	0.95613	0.00027	1.37895	1.60E-05	8.04E-03	6.74E-07	1.13E-04	8.17E-03
320	UCART5	439402.4	3761698.92	439402.35, 3761698.92	1.01586	1.00466	0.0003	1.52136	1.68E-05	8.45E-03	7.49E-07	1.25E-04	8.59E-03
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	1.06016	1.05097	0.00034	1.68717	1.76E-05	8.84E-03	8.49E-07	1.39E-04	9.00E-03
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	1.1103	1.10352	0.00038	1.89903	1.84E-05	9.28E-03	9.49E-07	1.56E-04	9.46E-03
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	1.16082	1.1571	0.00042	2.1657	1.92E-05	9.73E-03	1.05E-06	1.78E-04	9.93E-03
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	0.83661	0.81974	0.00022	1.02003	1.39E-05	6.89E-03	5.49E-07	8.39E-05	6.99E-03
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	0.88025	0.86299	0.00023	1.09964	1.46E-05	7.26E-03	5.74E-07	9.05E-05	7.36E-03
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	0.92441	0.90706	0.00025	1.18894	1.53E-05	7.63E-03	6.24E-07	9.78E-05	7.74E-03
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	0.97393	0.95664	0.00027	1.29573	1.61E-05	8.05E-03	6.74E-07	1.07E-04	8.17E-03
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	1.02498	1.00818	0.00029	1.41988	1.70E-05	8.48E-03	7.24E-07	1.17E-04	8.61E-03
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	1.07855	1.06276	0.00032	1.5678	1.79E-05	8.94E-03	7.99E-07	1.29E-04	9.09E-03
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	1.13236	1.11829	0.00035	1.74395	1.88E-05	9.41E-03	8.74E-07	1.43E-04	9.57E-03
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	1.18721	1.17564	0.0004	1.95962	1.97E-05	9.89E-03	9.99E-07	1.61E-04	1.01E-02
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	1.24809	1.23968	0.00045	2.2399	2.07E-05	1.04E-02	1.12E-06	1.84E-04	1.06E-02
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	0.87219	0.85235	0.00024	1.04304	1.44E-05	7.17E-03	5.99E-07	8.58E-05	7.27E-03
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	0.9216	0.90086	0.00025	1.12637	1.53E-05	7.58E-03	6.24E-07	9.27E-05	7.69E-03
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	0.97264	0.95124	0.00027	1.22047	1.61E-05	8.00E-03	6.74E-07	1.00E-04	8.12E-03
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	1.02922	1.00727	0.00029	1.33188	1.70E-05	8.47E-03	7.24E-07	1.10E-04	8.60E-03
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	1.08543	1.0635	0.00031	1.45863	1.80E-05	8.94E-03	7.74E-07	1.20E-04	9.08E-03
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	1.14643	1.12496	0.00034	1.6112	1.90E-05	9.46E-03	8.49E-07	1.33E-04	9.61E-03
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	1.2126	1.19218	0.00037	1.79819	2.01E-05	1.00E-02	9.24E-07	1.48E-04	1.02E-02
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	1.27553	1.25737	0.00042	2.01971	2.11E-05	1.06E-02	1.05E-06	1.66E-04	1.08E-02
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	1.34815	1.33301	0.00047	2.31062	2.23E-05	1.12E-02	1.17E-06	1.90E-04	1.14E-02
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	0.90855	0.88549	0.00027	1.06462	1.50E-05	7.45E-03	6.74E-07	8.76E-05	7.55E-03
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	0.96308	0.93857	0.00028	1.15048	1.60E-05	7.89E-03	6.99E-07	9.46E-05	8.01E-03
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	1.01983	0.99406	0.00029	1.24732	1.69E-05	8.36E-03	7.24E-07	1.03E-04	8.48E-03
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	1.0828	1.05579	0.00031	1.3615	1.79E-05	8.88E-03	7.74E-07	1.12E-04	9.01E-03
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	1.14737	1.11957	0.00034	1.49245	1.90E-05	9.42E-03	8.49E-07	1.23E-04	9.56E-03
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	1.22152	1.19306	0.00037	1.65383	2.02E-05	1.00E-02	9.24E-07	1.36E-04	1.02E-02
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	1.29685	1.26862	0.0004	1.84461	2.15E-05	1.07E-02	9.99E-07	1.52E-04	1.08E-02
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	1.37152	1.34479	0.00045	2.07279	2.27E-05	1.13E-02	1.12E-06	1.71E-04	1.15E-02
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	1.45857	1.43419	0.00051	2.3726	2.42E-05	1.21E-02	1.27E-06	1.95E-04	1.23E-02
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	0.94578	0.91931	0.00029	1.08489	1.57E-05	7.73E-03	7.24E-07	8.92E-05	7.84E-03
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	1.00536	0.97681	0.00031	1.17274	1.67E-05	8.22E-03	7.74E-07	9.65E-05	8.33E-03
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	1.06861	1.03803	0.00032	1.27231	1.77E-05	8.73E-03	7.99E-07	1.05E-04	8.85E-03
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	1.14166	1.10875	0.00034	1.39159	1.89E-05	9.33E-03	8.49E-07	1.14E-04	9.46E-03
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	1.2172	1.18232	0.00037	1.52813	2.02E-05	9.94E-03	9.24E-07	1.26E-04	1.01E-02
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	1.29888	1.26232	0.0004	1.69032	2.15E-05	1.06E-02	9.99E-07	1.39E-04	1.08E-02
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	1.39085	1.35283	0.00044	1.88989	2.30E-05	1.14E-02	1.10E-06	1.55E-04	1.16E-02
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	1.48538	1.4471	0.00049	2.13083	2.46E-05	1.22E-02	1.22E-06	1.75E-04	1.24E-02
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	1.58618	1.54907	0.00055	2.43387	2.63E-05	1.30E-02	1.37E-06	2.00E-04	1.33E-02
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	0.98234	0.95236	0.00032	1.10274	1.63E-05	8.01E-03	7.99E-07	9.07E-05	8.12E-03
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	1.04748	1.0147	0.00034	1.19251	1.74E-05	8.53E-03	8.49E-07	9.81E-05	8.65E-03
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	1.11746	1.08177	0.00036	1.29431	1.85E-05	9.10E-03	8.99E-07	1.06E-04	9.22E-03
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	1.19991	1.16068	0.00038	1.41699	1.99E-05	9.76E-03	9.49E-07	1.17E-04	9.90E-03
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	1.28731	1.24462	0.00041	1.55809	2.13E-05	1.05E-02	1.02E-06	1.28E-04	1.06E-02
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	1.38038	1.33443	0.00044	1.72325	2.29E-05	1.12E-02	1.10E-06	1.42E-04	1.14E-02
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	1.48796	1.4385	0.00048	1.9274	2.46E-05	1.21E-02	1.20E-06	1.59E-04	1.23E-02
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	1.60263	1.55042	0.00054	2.1754	2.65E-05	1.30E-02	1.35E-06	1.79E-04	1.32E-02
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	1.72572	1.67205	0.00061	2.48561	2.86E-05	1.41E-02	1.52E-06	2.04E-04	1.43E-02
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	1.01842	0.98487	0.00035	1.1185	1.69E-05	8.28E-03	8.74E-07	9.20E-05	8.39E-03
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	1.08893	1.05184	0.00037	1.20965	1.80E-05	8.85E-03	9.24E-07	9.95E-05	8.96E-03
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	1.16611	1.1251	0.0004	1.31346	1.93E-05	9.46E-03	9.99E-07	1.08E-04	9.59E-03
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	1.2581	1.21218	0.00042	1.4388	2.08E-05	1.02E-02	1.05E-06	1.18E-04	1.03E-02
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	1.35844	1.30723	0.00045	1.58391	2.25E-05	1.10E-02	1.12E-06	1.30E-04	1.11E-02
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	1.46419	1.40774	0.00049	1.75158	2.43E-05	1.18E-02	1.22E-06	1.44E-04	1.20E-02
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	1.58567	1.52333	0.00054	1.95666	2.63E-05	1.28E-02	1.35E-06	1.61E-04	1.30E-02
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	1.71986	1.65163	0.0006	2.20761	2.85E-05	1.39E-02	1.50E-06	1.82E-04	1.41E-02
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	1.86923	1.79549	0.00068	2.52315	3.10E-05	1.51E-02	1.70E-06	2.08E-04	1.53E-02
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	1.05367	1.0165	0.00038	1.13215	1.75E-05	8.55E-03	9.49E-07	9.31E-05	8.66E-03
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	1.13261	1.09089	0.00041	1.22648	1.88E-05	9.17E-03	1.02E-06	1.01E-04	9.30E-03
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	1.22024	1.17327	0.00044	1.33429	2.02E-05	9.87E-03	1.10E-06	1.10E-04	1.00E-02
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	1.31852	1.26544	0.00047	1.45915	2.18E-05	1.06E-02	1.17E-06	1.20E-04	1.08E-02
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	1.42841	1.36829	0.00051	1.60483	2.37E-05	1.15E-02	1.27E-06	1.32E-04	1.17E-02
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	1.55033	1.48233	0.00055	1.77612	2.57E-05	1.25E-02	1.37E-06	1.46E-04	1.26E-02
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	1.69035	1.61317	0.00061	1.9838	2.80E-05	1.36E-02	1.52E-06	1.63E-04	1.38E-02
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	1.84771	1.76036	0.00068	2.23744	3.06E-05	1.48E-02	1.70E-06	1.84E-04	1.50E-02
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	2.02478	1.92654	0.00076	2.55466	3.35E-05	1.62E-02	1.90E-06	2.10E-04	1.64E-02
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	0.82412	0.83161	0.00032	1.81777	1.37E-05	6.99E-03	7.99E-07	1.50E-04	7.16E-03
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	0.84546	0.85496	0.00032	2.0895	1.40E-05	7.19E-03	7.99E-07	1.72E-04	7.38E-03
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	0.86524	0.87699	0.00032	2.46876	1.43E-05	7.38E-03	7.99E-07	2.03E-04	7.59E-03
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	0.88332	0.89761	0.00031	3.05047	1.46E-05	7.55E-03	7.74E-07	2.51E-04	7.82E-03
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	0.89841	0.91555	0.00031	4.07027	1.49E-05	7.70E-03	7.74E-07	3.35E-04	8.05E-03
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	0.91268	0.93301	0.0003	6.30039	1.51E-05	7.85E-03	7.49E-07	5.18E-04	8.38E-03
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	0.87895	0.88633	0.00034	1.98845	1.46E-05	7.45E-03	8.49E-07	1.64E-04	7.63E-03
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	0.9029	0.9126	0.00035	2.32404	1.50E-05	7.68E-03	8.74E-07	1.91E-04	7.88E-03
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	0.92577	0.93808	0.00035	2.82168	1.53E-05	7.89E-03	8.74E-07	2.32E-04	8.14E-03

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
317	UCART5	2.6E-06	7.7E-06	6.1E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
318	UCART5	2.7E-06	8.1E-06	6.4E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.4E-06
319	UCART5	2.8E-06	8.5E-06	6.7E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.6E-06
320	UCART5	3.0E-06	9.0E-06	7.1E-06	6.1E-06	2.8E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.8E-06
321	UCART5	3.1E-06	9.4E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.6E-07	5.0E-06
322	UCART5	3.3E-06	9.9E-06	7.8E-06	6.8E-06	3.0E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
323	UCART5	3.4E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.6E-06
324	UCART5	2.4E-06	7.3E-06	5.8E-06	5.0E-06	2.2E-06	0.0E+00	0.0E+00	1.9E-06	1.6E-06	3.6E-07	3.9E-06
325	UCART5	2.5E-06	7.7E-06	6.1E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
326	UCART5	2.7E-06	8.1E-06	6.4E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.3E-06
327	UCART5	2.8E-06	8.5E-06	6.7E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.6E-06
328	UCART5	3.0E-06	9.0E-06	7.1E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.8E-06
329	UCART5	3.1E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
330	UCART5	3.3E-06	1.0E-05	7.9E-06	6.8E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	4.9E-07	5.4E-06
331	UCART5	3.5E-06	1.1E-05	8.3E-06	7.2E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.4E-06	5.2E-07	5.6E-06
332	UCART5	3.7E-06	1.1E-05	8.8E-06	7.6E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.5E-07	6.0E-06
333	UCART5	2.5E-06	7.6E-06	6.0E-06	5.2E-06	2.3E-06	0.0E+00	0.0E+00	2.0E-06	1.7E-06	3.8E-07	4.1E-06
334	UCART5	2.7E-06	8.0E-06	6.3E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.3E-06
335	UCART5	2.8E-06	8.5E-06	6.7E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.5E-06
336	UCART5	3.0E-06	9.0E-06	7.1E-06	6.1E-06	2.8E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.8E-06
337	UCART5	3.1E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
338	UCART5	3.3E-06	1.0E-05	7.9E-06	6.9E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	5.0E-07	5.4E-06
339	UCART5	3.5E-06	1.1E-05	8.4E-06	7.3E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.7E-06
340	UCART5	3.7E-06	1.1E-05	8.9E-06	7.7E-06	3.5E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.6E-07	6.0E-06
341	UCART5	4.0E-06	1.2E-05	9.4E-06	8.2E-06	3.7E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.9E-07	6.4E-06
342	UCART5	2.6E-06	7.9E-06	6.2E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	3.9E-07	4.2E-06
343	UCART5	2.8E-06	8.4E-06	6.6E-06	5.7E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.1E-07	4.5E-06
344	UCART5	2.9E-06	8.9E-06	7.0E-06	6.1E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.7E-06
345	UCART5	3.1E-06	9.4E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.6E-07	5.0E-06
346	UCART5	3.3E-06	1.0E-05	7.9E-06	6.8E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	4.9E-07	5.4E-06
347	UCART5	3.5E-06	1.1E-05	8.4E-06	7.3E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.7E-06
348	UCART5	3.8E-06	1.1E-05	9.0E-06	7.7E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.6E-07	6.1E-06
349	UCART5	4.0E-06	1.2E-05	9.5E-06	8.2E-06	3.7E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.9E-07	6.4E-06
350	UCART5	4.3E-06	1.3E-05	1.0E-05	8.8E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.3E-07	6.9E-06
351	UCART5	2.7E-06	8.2E-06	6.5E-06	5.6E-06	2.5E-06	0.0E+00	0.0E+00	2.1E-06	1.8E-06	4.0E-07	4.4E-06
352	UCART5	2.9E-06	8.7E-06	6.9E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.7E-06
353	UCART5	3.1E-06	9.3E-06	7.3E-06	6.3E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	5.0E-06
354	UCART5	3.3E-06	9.9E-06	7.8E-06	6.8E-06	3.0E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
355	UCART5	3.5E-06	1.1E-05	8.3E-06	7.2E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.4E-06	5.2E-07	5.6E-06
356	UCART5	3.7E-06	1.1E-05	8.9E-06	7.7E-06	3.5E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.6E-07	6.0E-06
357	UCART5	4.0E-06	1.2E-05	9.5E-06	8.3E-06	3.7E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	6.0E-07	6.5E-06
358	UCART5	4.3E-06	1.3E-05	1.0E-05	8.8E-06	4.0E-06	0.0E+00	0.0E+00	3.4E-06	2.9E-06	6.4E-07	6.9E-06
359	UCART5	4.6E-06	1.4E-05	1.1E-05	9.5E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.4E-06
360	UCART5	2.8E-06	8.5E-06	6.7E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.5E-06
361	UCART5	3.0E-06	9.0E-06	7.1E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.0E-06	4.5E-07	4.8E-06
362	UCART5	3.2E-06	9.6E-06	7.6E-06	6.6E-06	3.0E-06	0.0E+00	0.0E+00	2.5E-06	2.2E-06	4.8E-07	5.2E-06
363	UCART5	3.4E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.5E-06
364	UCART5	3.7E-06	1.1E-05	8.8E-06	7.6E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.5E-07	5.9E-06
365	UCART5	3.9E-06	1.2E-05	9.4E-06	8.1E-06	3.7E-06	0.0E+00	0.0E+00	3.1E-06	2.7E-06	5.9E-07	6.4E-06
366	UCART5	4.3E-06	1.3E-05	1.0E-05	8.8E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.3E-07	6.9E-06
367	UCART5	4.6E-06	1.4E-05	1.1E-05	9.5E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.8E-07	7.4E-06
368	UCART5	4.9E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.4E-07	8.0E-06
369	UCART5	2.9E-06	8.8E-06	6.9E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.7E-06
370	UCART5	3.1E-06	9.4E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	5.0E-06
371	UCART5	3.3E-06	1.0E-05	7.9E-06	6.9E-06	3.1E-06	0.0E+00	0.0E+00	2.6E-06	2.3E-06	4.9E-07	5.4E-06
372	UCART5	3.6E-06	1.1E-05	8.5E-06	7.4E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.8E-06
373	UCART5	3.9E-06	1.2E-05	9.2E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.8E-07	6.2E-06
374	UCART5	4.2E-06	1.3E-05	9.9E-06	8.6E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.8E-06	6.2E-07	6.7E-06
375	UCART5	4.5E-06	1.4E-05	1.1E-05	9.3E-06	4.2E-06	0.0E+00	0.0E+00	3.5E-06	3.1E-06	6.7E-07	7.3E-06
376	UCART5

PHASE 1 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	8.41E-03	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	0.9468	0.96207	0.00035	3.65866	1.57E-05	8.09E-03	8.74E-07	3.01E-04	8.41E-03
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	0.96459	0.98321	0.00034	5.43304	1.60E-05	8.27E-03	8.49E-07	4.47E-04	8.73E-03
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	0.98183	1.00424	0.00033	12.53872	1.63E-05	8.45E-03	8.24E-07	1.03E-03	9.49E-03
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	0.9396	0.94663	0.00037	2.15177	1.56E-05	7.96E-03	9.24E-07	1.77E-04	8.16E-03
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	0.96752	0.97724	0.00038	2.54734	1.60E-05	8.22E-03	9.49E-07	2.10E-04	8.45E-03
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	0.99418	1.00696	0.00039	3.14683	1.65E-05	8.47E-03	9.74E-07	2.59E-04	8.75E-03
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	1.01973	1.036	0.00039	4.18957	1.69E-05	8.71E-03	9.74E-07	3.45E-04	9.08E-03
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	1.04113	1.06139	0.00039	6.43185	1.72E-05	8.93E-03	9.74E-07	5.29E-04	9.47E-03
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	1.06086	1.08565	0.00038	14.66887	1.76E-05	9.13E-03	9.49E-07	1.21E-03	1.04E-02
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	1.00816	1.01448	0.0004	2.30544	1.67E-05	8.53E-03	9.99E-07	1.90E-04	8.74E-03
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	1.04068	1.05016	0.00042	2.74974	1.72E-05	8.83E-03	1.05E-06	2.26E-04	9.08E-03
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	1.07217	1.08526	0.00043	3.42533	1.78E-05	9.13E-03	1.07E-06	2.82E-04	9.43E-03
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	1.10239	1.11963	0.00044	4.58866	1.83E-05	9.42E-03	1.10E-06	3.77E-04	9.81E-03
409	UCART6	439816.6	3761570.65	439816.61, 3761570.65	1.12877	1.15081	0.00043	7.03405	1.87E-05	9.68E-03	1.07E-06	5.79E-04	1.03E-02
410	UCART6	439866.6	3761570.65	439866.61, 3761570.65	1.15083	1.17834	0.00043	15.44153	1.91E-05	9.91E-03	1.07E-06	1.27E-03	1.12E-02
411	UCART7	440451.1	3762893.83	440451.14, 3762893.83	9.44883	9.82271	0.01488	6.17945	1.57E-04	8.26E-02	3.72E-05	5.08E-04	8.33E-02
412	UCART7	440501.1	3762893.83	440501.14, 3762893.83	8.25137	8.58029	0.01294	4.75041	1.37E-04	7.22E-02	3.23E-05	3.91E-04	7.27E-02
413	UCART7	440551.1	3762893.83	440551.14, 3762893.83	7.27709	7.48789	0.01121	3.92471	1.21E-04	6.30E-02	2.80E-05	3.23E-04	6.34E-02
414	UCART7	440601.1	3762893.83	440601.14, 3762893.83	6.46176	6.56469	0.00971	3.37475	1.07E-04	5.52E-02	2.42E-05	2.78E-04	5.56E-02
415	UCART7	440651.1	3762893.83	440651.14, 3762893.83	5.77184	5.81225	0.00846	2.97714	9.56E-05	4.89E-02	2.11E-05	2.45E-04	4.92E-02
416	UCART7	440701.1	3762893.83	440701.14, 3762893.83	5.17842	5.19263	0.00741	2.67352	8.58E-05	4.37E-02	1.85E-05	2.20E-04	4.40E-02
417	UCART7	440751.1	3762893.83	440751.14, 3762893.83	4.66456	4.67497	0.00656	2.43498	7.73E-05	3.93E-02	1.64E-05	2.00E-04	3.96E-02
418	UCART7	440801.1	3762893.83	440801.14, 3762893.83	4.21609	4.23121	0.00582	2.23812	6.98E-05	3.56E-02	1.45E-05	1.84E-04	3.59E-02
419	UCART7	440851.1	3762893.83	440851.14, 3762893.83	3.82333	3.8468	0.00521	2.07538	6.33E-05	3.24E-02	1.30E-05	1.71E-04	3.26E-02
420	UCART7	440451.1	3762943.83	440451.14, 3762943.83	7.55488	7.21335	0.00946	4.85369	1.25E-04	6.07E-02	2.36E-05	3.99E-04	6.12E-02
421	UCART7	440501.1	3762943.83	440501.14, 3762943.83	6.77929	6.65371	0.00882	4.09945	1.12E-04	5.60E-02	2.20E-05	3.37E-04	5.64E-02
422	UCART7	440551.1	3762943.83	440551.14, 3762943.83	6.12454	6.0895	0.00811	3.54039	1.01E-04	5.12E-02	2.03E-05	2.91E-04	5.16E-02
423	UCART7	440601.1	3762943.83	440601.14, 3762943.83	5.55093	5.53204	0.00735	3.11306	9.19E-05	4.65E-02	1.84E-05	2.56E-04	4.69E-02
424	UCART7	440651.1	3762943.83	440651.14, 3762943.83	5.05532	5.0333	0.00666	2.78648	8.37E-05	4.23E-02	1.66E-05	2.29E-04	4.27E-02
425	UCART7	440701.1	3762943.83	440701.14, 3762943.83	4.61621	4.58941	0.00602	2.52486	7.65E-05	3.86E-02	1.50E-05	2.08E-04	3.89E-02
426	UCART7	440751.1	3762943.83	440751.14, 3762943.83	4.22491	4.2022	0.00546	2.31491	7.00E-05	3.53E-02	1.36E-05	1.90E-04	3.56E-02
427	UCART7	440801.1	3762943.83	440801.14, 3762943.83	3.87102	3.8514	0.00493	2.13458	6.41E-05	3.24E-02	1.23E-05	1.76E-04	3.26E-02
428	UCART7	440851.1	3762943.83	440851.14, 3762943.83	3.55329	3.54204	0.00446	1.98147	5.89E-05	2.98E-02	1.11E-05	1.63E-04	3.00E-02
429	UCART8	441116.7	3763135.31	441116.67, 3763135.31	1.88214	1.84879	0.00176	1.23256	3.12E-05	1.55E-02	4.39E-06	1.01E-04	1.57E-02
430	UCART8	441166.7	3763135.31	441166.67, 3763135.31	1.79192	1.76179	0.00168	1.18139	2.97E-05	1.48E-02	4.20E-06	9.72E-05	1.49E-02
431	UCART8	441116.7	3763185.31	441116.67, 3763185.31	1.74261	1.7106	0.00154	1.17508	2.89E-05	1.44E-02	3.85E-06	9.67E-05	1.45E-02
432	UCART8	441166.7	3763185.31	441166.67, 3763185.31	1.66953	1.63957	0.00148	1.12868	2.77E-05	1.38E-02	3.70E-06	9.28E-05	1.39E-02
433	UCART8	441116.7	3763235.31	441116.67, 3763235.31	1.61143	1.56614	0.00134	1.11768	2.67E-05	1.32E-02	3.35E-06	9.19E-05	1.33E-02
434	UCART8	441166.7	3763235.31	441166.67, 3763235.31	1.54658	1.5165	0.00129	1.07561	2.56E-05	1.28E-02	3.22E-06	8.85E-05	1.29E-02
435	UCART8	441116.7	3763285.31	441116.67, 3763285.31	1.48476	1.44314	0.00116	1.0596	2.46E-05	1.21E-02	2.90E-06	8.72E-05	1.23E-02
436	UCART8	441166.7	3763285.31	441166.67, 3763285.31	1.4396	1.40135	0.00113	1.0222	2.38E-05	1.18E-02	2.82E-06	8.41E-05	1.19E-02
437	UCART8	441116.7	3763335.31	441116.67, 3763335.31	1.35002	1.30533	0.00101	1.00633	2.24E-05	1.10E-02	2.52E-06	8.28E-05	1.11E-02
438	UCART8	441166.7	3763335.31	441166.67, 3763335.31	1.32196	1.28409	0.00099	0.97025	2.19E-05	1.08E-02	2.47E-06	7.98E-05	1.09E-02
439	UCART8	441116.7	3763385.31	441116.67, 3763385.31	1.22277	1.17814	0.00089	0.95361	2.03E-05	9.91E-03	2.22E-06	7.84E-05	1.00E-02
440	UCART8	441166.7	3763385.31	441166.67, 3763385.31	1.20447	1.16429	0.00087	0.92393	2.00E-05	9.79E-03	2.17E-06	7.60E-05	9.89E-03
441	UCART8	441116.7	3763435.31	441116.67, 3763435.31	1.10507	1.06154	0.00078	0.89888	1.83E-05	8.93E-03	1.95E-06	7.39E-05	9.02E-03
442	UCART8	441166.7	3763435.31	441166.67, 3763435.31	1.09457	1.05492	0.00077	0.87255	1.81E-05	8.87E-03	1.92E-06	7.18E-05	8.96E-03
443	UCART9	440433.4	3762815.13	440433.43, 3762815.13	13.99045	16.84303	0.03218	8.18407	2.32E-04	1.42E-01	8.04E-05	6.73E-04	1.43E-01
444	UCART9	440483.4	3762815.13	440483.43, 3762815.13	11.56541	12.77042	0.02365	5.75448	1.92E-04	1.07E-01	5.91E-05	4.73E-04	1.08E-01
445	UCART9	440533.4	3762815.13	440533.43, 3762815.13	9.74823	10.26998	0.01836	4.56477	1.61E-04	8.64E-02	4.58E-05	3.75E-04	8.70E-02
446	UCART9	440583.4	3762815.13	440583.43, 3762815.13	8.31357	8.5134	0.01474	3.83582	1.38E-04	7.16E-02	3.68E-05	3.16E-04	7.21E-02
447	UCART9	440633.4	3762815.13	440633.43, 3762815.13	7.16191	7.25127	0.01215	3.33415	1.19E-04	6.10E-02	3.03E-05	2.74E-04	6.14E-02
448	UCART9	440683.4	3762815.13	440683.43, 3762815.13	6.22973	6.28332	0.01023	2.96392	1.03E-04	5.28E-02	2.55E-05	2.44E-04	5.32E-02
449	UCART9	440733.4	3762815.13	440733.43, 3762815.13	5.46918	5.52192	0.00874	2.67482	9.06E-05	4.64E-02	2.18E-05	2.20E-04	4.68E-02
450	UCART9	440783.4	3762815.13	440783.43, 3762815.13	4.84226	4.8905	0.00756	2.4454	8.02E-05	4.11E-02	1.89E-05	2.01E-04	4.14E-02
451	UCART9	440833.4	3762815.13	440833.43, 3762815.13	4.32117	4.39597	0.00661	2.25348	7.16E-05	3.70E-02	1.65E-05	1.85E-04	3.72E-02
452	UCART9	440883.4	3762815.13	440883.43, 3762815.13	3.88272	3.95984	0.00582	2.09289	6.43E-05	3.33E-02	1.45E-05	1.72E-04	3.36E-02
453	UCART9	440933.4	3762815.13	440933.43, 3762815.13	3.50722	3.56222	0.00517	1.95661	5.81E-05	3.00E-02	1.29E-05	1.61E-04	3.02E-02
454	UCART9	440983.4	3762815.13	440983.43, 3762815.13	3.18532	3.24221	0.00462	1.83822	5.28E-05	2.73E-02	1.15E-05	1.51E-04	2.75E-02
455	UCART9	440433.4	3762865.13	440433.43, 3762865.13	11.33296	12.52902	0.0208	7.83128	1.88E-04	1.05E-01	5.19E-05	6.44E-04	1.06E-01
456	UCART9	440483.4	3762865.13	440483.43, 3762865.13	9.66697	10.46436	0.01707	5.50186	1.60E-04	8.80E-02	4.26E-05	4.53E-04	8.87E-02
457	UCART9	440533.4	3762865.13	440533.43, 3762865.13	8.37127	8.80345	0.01415	4.37203	1.39E-04	7.40E-02	3.53E-05	3.60E-04	7.46E-02
458	UCART9	440583.4	3762865.13	440583.43, 3762865.13	7.32106	7.52602	0.01188	3.68146	1.21E-04	6.33E-02	2.97E-05	3.03E-04	6.38E-02
459	UCART9	440633.4	3762865.13	440633.43, 3762865.13	6.44883	6.53715	0.0101	3.20495	1.07E-04	5.50E-02	2.52E-05	2.64E-04	5.54E-02
460	UCART9	440683.4	3762865.13	440683.43, 3762865.13	5.71479	5.75717	0.00869	2.85315	9.47E-05	4.84E-02	2.17E-05	2.35E-04	4.88E-02
461	UCART9	440733.4	3762865.13	440733.43, 3762865.13	5.0918	5.12164	0.00755	2.57868	8.43E-05	4.31E-02	1.89E-05	2.12E-04	4.34E-02
462	UCART9	440783.4	3762865.13	440783.43, 3762865.13	4.56024	4.59454	0.00663	2.35961	7.55E-05	3.86E-02	1.66E-05	1.94E-04	3.89E-02
463	UCART9	440833.4	3762865.13	440833.43, 3762865.13	4.10453	4.14324	0.00586	2.17917	6.80E-05	3.48E-02	1.46E-05	1.79E-04	3.51E-02
464	UCART9	440883.4	3762865.13	440883.43, 3762865.13	3.71439	3.74141	0.00522	2.02632	6.15E-05	3.15E-02	1.30E-05	1.67E-04	3.17E-02
465	UCART9	440933.4	3762865.13	440933.43, 3762865.13	3.37493	3.40741	0.00468	1.89523	5.59E-05	2.87E-02	1.17E-05	1.56E-04	2.89E-02
466	UCART9	440983.4	3762865.13	440983.43, 3762865.13	3.08239	3.11717	0.00421	1.77997	5.11E-05	2.62E-02	1.05E-05	1.46E-04	2.64E-02
467	UCART10	441118.3	3762686.02	441118.27, 3762686.02	2.54889	2.63014	0.00393	1.69993	4.22E-05	2.21E-02	9.81E-06	1.40E-04	2.23E-02
468	UCART10	441168.3	3762686.02	441168.27, 3762686.02	2.34894	2.42281	0.00355	1.61694	3.89E-05	2.04E-02	8.86E-06	1.33E-04	2.06E-02
469	UCART10	441118.3	3762736.02	441118.27, 3762736.02	2.56243	2.63273	0.0038	1.65184	4.24E-05	2.21E-02	9.49E-06	1.36E-04	2.23E-02
470	UCART10	441168.3	3762736.02	441168.27, 3762736.02	2.35919	2.4209	0.00344	1.57013	3.91E-05	2.04E-02	8.59E-06	1.29E-04	2.05E-02
471	UCART10	441118.3	3762786.02	441118.27, 3762786.02	2.54184	2.60035	0.00362	1.60612	4.21E-05	2.19E-02	9.04E-06	1.32E-04	2.21E-02
472	UCART10	441168.3	3762786.02	441168.27, 3762786.02	2.34509	2.4002	0.00328	1.52651	3.88E-05	2.02E-02	8.19E-06	1.26E-04	2.04E-02
473	UCART10	441118.3	3762836.02	441118.27, 3762836.02	2.495	2.54297	0.00339	1.55959	4.13E-05	2.14E-02	8.47E-06	1.28E-04	2.16E-02
474	UCART10	441168.3	3762836.02	441168.27, 3762836.02	2.30736	2.35171	0.00309	1.48162	3.82E-05	1.98E-02	7.72E-06	1.22E-04	1.99E-02

Residential Dose						Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
2.9E-06	8.8E-06	6.9E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.3E-07	4.7E-06
3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.5E-07	4.9E-06
3.3E-06	9.9E-06	7.8E-06	6.8E-06	3.0E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
2.8E-06	8.5E-06	6.7E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	2.2E-06	1.9E-06	4.2E-07	4.6E-06
2.9E-06	8.8E-06	7.0E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	2.3E-06	2.0E-06	4.4E-07	4.7E-06
3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.5E-07	4.9E-06
3.1E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
3.3E-06	9.9E-06	7.8E-06	6.8E-06	3.0E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
3.6E-06	1.1E-05	8.6E-06	7.4E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.8E-06
3.0E-06	9.1E-06	7.2E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.5E-07	4.9E-06
3.1E-06	9.5E-06	7.5E-06	6.5E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
3.3E-06	9.9E-06	7.8E-06	6.7E-06	3.0E-06	0.0E+00	0.0E+00	2.6E-06	2.2E-06	4.9E-07	5.3E-06
3.4E-06	1.0E-05	8.1E-06	7.0E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.5E-06
3.6E-06	1.1E-05	8.5E-06	7.3E-06	3.3E-06	0.0E+00	0.0E+00	2.8E-06	2.4E-06	5.3E-07	5.8E-06
3.9E-06	1.2E-05	9.2E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.6E-06	5.8E-07	6.3E-06
2.9E-05	8.7E-05	6.9E-05	6.0E-05	2.7E-05	0.0E+00	0.0E+00	2.3E-05	2.0E-05	4.3E-06	4.7E-05
2.5E-05	7.6E-05	6.0E-05	5.2E-05	2.3E-05	0.0E+00	0.0E+00	2.0E-05	1.7E-05	3.8E-06	4.1E-05
2.2E-05	6.6E-05	5.2E-05	4.5E-05	2.0E-05	0.0E+00	0.0E+00	1.7E-05	1.5E-05	3.3E-06	3.6E-05
1.9E-05	5.8E-05	4.6E-05	4.0E-05	1.8E-05	0.0E+00	0.0E+00	1.5E-05	1.3E-05	2.9E-06	3.1E-05
1.7E-05	5.1E-05	4.1E-05	3.5E-05	1.6E-05	0.0E+00	0.0E+00	1.3E-05	1.2E-05	2.5E-06	2.8E-05
1.5E-05	4.6E-05	3.6E-05	3.1E-05	1.4E-05	0.0E+00	0.0E+00	1.2E-05	1.0E-05	2.3E-06	2.5E-05
1.4E-05	4.1E-05	3.3E-05	2.8E-05	1.3E-05	0.0E+00	0.0E+00	1.1E-05	9.3E-06	2.0E-06	2.2E-05
1.2E-05	3.7E-05	3.0E-05	2.6E-05	1.2E-05	0.0E+00	0.0E+00	9.8E-06	8.5E-06	1.8E-06	2.0E-05
1.1E-05	3.4E-05	2.7E-05	2.3E-05	1.0E-05	0.0E+00	0.0E+00	8.9E-06	7.7E-06	1.7E-06	1.8E-05
2.1E-05	6.4E-05	5.1E-05	4.4E-05	2.0E-05	0.0E+00	0.0E+00	1.7E-05	1.4E-05	3.2E-06	3.4E-05
2.0E-05	5.9E-05	4.7E-05	4.0E-05	1.8E-05	0.0E+00	0.0E+00	1.5E-05	1.3E-05	2.9E-06	3.2E-05
1.8E-05	5.4E-05	4.3E-05	3.7E-05	1.7E-05	0.0E+00	0.0E+00	1.4E-05	1.2E-05	2.7E-06	2.9E-05
1.6E-05	4.9E-05	3.9E-05	3.3E-05	1.5E-05	0.0E+00	0.0E+00	1.3E-05	1.1E-05	2.4E-06	2.6E-05
1.5E-05	4.5E-05	3.5E-05	3.0E-05	1.4E-05	0.0E+00	0.0E+00	1.2E-05	1.0E-05	2.2E-06	2.4E-05
1.3E-05	4.1E-05	3.2E-05	2.8E-05	1.2E-05	0.0E+00	0.0E+00	1.1E-05	9.2E-06	2.0E-06	2.2E-05
1.2E-05	3.7E-05	2.9E-05	2.5E-05	1.1E-05	0.0E+00	0.0E+00	9.7E-06	8.4E-06	1.8E-06	2.0E-05
1.1E-05	3.4E-05	2.7E-05	2.3E-05	1.0E-05	0.0E+00	0.0E+00	8.9E-06	7.7E-06	1.7E-06	1.8E-05
1.0E-05	3.1E-05	2.5E-05	2.1E-05	9.6E-06	0.0E+00	0.0E+00	8.2E-06	7.1E-06	1.5E-06	1.7E-05
5.4E-06	1.6E-05	1.3E-05	1.1E-05	5.0E-06	0.0E+00	0.0E+00	4.3E-06	3.7E-06	8.1E-07	8.8E-06
5.2E-06	1.6E-05	1.2E-05	1.1E-05	4.8E-06	0.0E+00	0.0E+00	4.1E-06	3.5E-06	7.7E-07	8.4E-06
5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.7E-06	0.0E+00	0.0E+00	4.0E-06	3.4E-06	7.5E-07	8.1E-06
4.8E-06	1.5E-05	1.1E-05	9.9E-06	4.5E-06	0.0E+00	0.0E+00	3.8E-06	3.3E-06	7.2E-07	7.8E-06
4.6E-06	1.4E-05	1.1E-05	9.5E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.1E-06	6.9E-07	7.4E-06
4.5E-06	1.3E-05	1.1E-05	9.2E-06	4.1E-06	0.0E+00	0.0E+00	3.5E-06	3.0E-06	6.6E-07	7.2E-06
4.2E-06	1.3E-05	1.0E-05	8.8E-06	3.9E-06	0.0E+00	0.0E+00	3.3E-06	2.9E-06	6.3E-07	6.9E-06
4.1E-06	1.2E-05	9.8E-06	8.5E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.7E-06
3.8E-06	1.2E-05	9.2E-06	7.9E-06	3.6E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.7E-07	6.2E-06
3.8E-06	1.1E-05	9.0E-06	7.8E-06	3.5E-06	0.0E+00	0.0E+00	3.0E-06	2.6E-06	5.6E-07	6.1E-06
3.5E-06	1.0E-05	8.3E-06	7.2E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.4E-06	5.2E-07	5.6E-06
3.4E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.7E-06	2.3E-06	5.1E-07	5.5E-06
3.1E-06	9.4E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.5E-06	2.1E-06	4.7E-07	5.1E-06
3.1E-06	9.4E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	2.4E-06	2.1E-06	4.6E-07	5.0E-06
4.9E-05	1.5E-04	1.2E-04	1.0E-04	4.6E-05	0.0E+00	0.0E+00	3.9E-05	3.4E-05	7.4E-06	8.0E-05
3.7E-05	1.1E-04	8.9E-05	7.7E-05	3.5E-05	0.0E+00	0.0E+00	2.9E-05	2.5E-05	5.6E-06	6.1E-05
3.0E-05	9.1E-05	7.2E-05	6.2E-05	2.8E-05	0.0E+00	0.0E+00	2.4E-05	2.0E-05	4.5E-06	4.9E-05
2.5E-05	7.5E-05	6.0E-05	5.2E-05	2.3E-05	0.0E+00	0.0E+00	2.0E-05	1.7E-05	3.7E-06	4.0E-05
2.1E-05	6.4E-05	5.1E-05	4.4E-05	2.0E-05	0.0E+00	0.0E+00	1.7E-05	1.4E-05	3.2E-06	3.4E-05
1.8E-05	5.6E-05	4.4E-05	3.8E-05	1.7E-05	0.0E+00	0.0E+00	1.4E-05	1.3E-05	2.7E-06	3.0E-05
1.6E-05	4.9E-05	3.9E-05	3.3E-05	1.5E-05	0.0E+00	0.0E+00	1.3E-05	1.1E-05	2.4E-06	2.6E-05
1.4E-05	4.3E-05	3.4E-05	3.0E-05	1.3E-05	0.0E+00	0.0E+00	1.1E-05	9.8E-06	2.1E-06	2.3E-05
1.3E-05	3.9E-05	3.1E-05	2.7E-05	1.2E-05	0.0E+00	0.0E+00	1.0E-05	8.8E-06	1.9E-06	2.1E-05
1.2E-05	3.5E-05	2.8E-05	2.4E-05	1.1E-05	0.0E+00	0.0E+00	9.1E-06	7.9E-06	1.7E-06	1.9E-05
1.0E-05	3.2E-05	2.5E-05	2.2E-05	9.7E-06	0.0E+00	0.0E+00	8.2E-06	7.1E-06	1.6E-06	1.7E-05
9.5E-06	2.9E-05	2.3E-05	2.0E-05	8.8E-06	0.0E+00	0.0E+00	7.5E-06	6.5E-06	1.4E-06	1.5E-05
3.7E-05	1.1E-04	8.8E-05	7.6E-05	3.4E-05	0.0E+00	0.0E+00	2.9E-05	2.5E-05	5.5E-06	5.9E-05
3.1E-05	9.3E-05	7.3E-05	6.3E-05	2.8E-05	0.0E+00	0.0E+00	2.4E-05	2.1E-05	4.6E-06	5.0E-05
2.6E-05	7.8E-05	6.2E-05	5.3E-05	2.4E-05	0.0E+00	0.0E+00	2.0E-05	1.8E-05	3.8E-06	4.2E-05
2.2E-05	6.7E-05	5.3E-05	4.6E-05	2.0E-05	0.0E+00	0.0E+00	1.7E-05	1.5E-05	3.3E-06	3.6E-05
1.9E-05	5.8E-05	4.6E-05	4.0E-05	1.8E-05	0.0E+00	0.0E+00	1.5E-05	1.3E-05	2.9E-06	3.1E-05
1.7E-05	5.1E-05	4.0E-05	3.5E-05	1.6E-05	0.0E+00	0.0E+00	1.3E-05	1.1E-05	2.5E-06	2.7E-05
1.5E-05

PHASE 1 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	8.41E-03	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
475	UCART11	440411.7	3762093.41	440411.67, 3762093.41	3.13887	3.61176	0.00424	21.05271	5.20E-05	3.04E-02	1.06E-05	1.73E-03	3.22E-02
476	UCART11	440461.7	3762093.41	440461.67, 3762093.41	2.92671	3.33233	0.0039	16.71312	4.85E-05	2.80E-02	9.74E-06	1.37E-03	2.95E-02
477	UCART11	440511.7	3762093.41	440511.67, 3762093.41	2.7336	3.08309	0.00361	15.62488	4.53E-05	2.59E-02	9.01E-06	1.29E-03	2.73E-02
478	UCART11	440561.7	3762093.41	440561.67, 3762093.41	2.55412	2.8569	0.00336	15.09334	4.23E-05	2.40E-02	8.39E-06	1.24E-03	2.53E-02
479	UCART11	440611.7	3762093.41	440611.67, 3762093.41	2.38796	2.65247	0.00314	14.75737	3.96E-05	2.23E-02	7.84E-06	1.21E-03	2.36E-02
480	UCART11	440411.7	3762143.41	440411.67, 3762143.41	3.64911	4.26262	0.00588	15.79293	6.04E-05	3.59E-02	1.47E-05	1.30E-03	3.72E-02
481	UCART11	440461.7	3762143.41	440461.67, 3762143.41	3.36654	3.87844	0.00522	10.33808	5.58E-05	3.26E-02	1.30E-05	8.50E-04	3.35E-02
482	UCART11	440511.7	3762143.41	440511.67, 3762143.41	3.11588	3.54804	0.00471	8.69593	5.16E-05	2.98E-02	1.18E-05	7.15E-04	3.06E-02
483	UCART11	440561.7	3762143.41	440561.67, 3762143.41	2.88503	3.25359	0.0043	7.90869	4.78E-05	2.74E-02	1.07E-05	6.51E-04	2.81E-02
484	UCART11	440611.7	3762143.41	440611.67, 3762143.41	2.68009	2.99873	0.00396	7.43146	4.44E-05	2.52E-02	9.89E-06	6.11E-04	2.59E-02
485	UCART12	440406.6	3762008.86	440406.61, 3762008.86	2.50366	2.81288	0.00241	7.95658	4.15E-05	2.37E-02	6.02E-06	6.55E-04	2.44E-02
486	UCART12	440456.6	3762008.86	440456.61, 3762008.86	2.36777	2.64461	0.00234	7.64891	3.92E-05	2.22E-02	5.84E-06	6.29E-04	2.29E-02
487	UCART12	440506.6	3762008.86	440506.61, 3762008.86	2.23734	2.4841	0.00226	7.34627	3.71E-05	2.09E-02	5.64E-06	6.04E-04	2.15E-02
488	UCART12	440556.6	3762008.86	440556.61, 3762008.86	2.11281	2.33229	0.00218	7.07869	3.50E-05	1.96E-02	5.44E-06	5.82E-04	2.02E-02
489	UCART12	440606.6	3762008.86	440606.61, 3762008.86	1.99659	2.19225	0.0021	6.85662	3.31E-05	1.84E-02	5.24E-06	5.64E-04	1.90E-02
490	UCART12	440656.6	3762008.86	440656.61, 3762008.86	1.88808	2.06341	0.00202	6.66166	3.13E-05	1.74E-02	5.04E-06	5.48E-04	1.79E-02
491	UCART12	440706.6	3762008.86	440706.61, 3762008.86	1.78752	1.94571	0.00194	6.49509	2.96E-05	1.64E-02	4.84E-06	5.34E-04	1.69E-02
492	UCART12	440756.6	3762008.86	440756.61, 3762008.86	1.69439	1.83799	0.00186	6.35101	2.81E-05	1.55E-02	4.64E-06	5.22E-04	1.60E-02
493	UCART12	440806.6	3762008.86	440806.61, 3762008.86	1.60413	1.73475	0.00179	6.15355	2.66E-05	1.46E-02	4.47E-06	5.06E-04	1.51E-02
494	UCART12	440856.6	3762008.86	440856.61, 3762008.86	1.52518	1.64465	0.00172	6.02626	2.53E-05	1.38E-02	4.30E-06	4.96E-04	1.44E-02
495	UCART12	440906.6	3762008.86	440906.61, 3762008.86	1.45417	1.56385	0.00165	5.92553	2.41E-05	1.32E-02	4.12E-06	4.87E-04	1.37E-02
496	UCART12	440956.6	3762008.86	440956.61, 3762008.86	1.38516	1.48594	0.00159	5.74626	2.29E-05	1.25E-02	3.97E-06	4.73E-04	1.30E-02
497	UCART12	441006.6	3762008.86	441006.61, 3762008.86	1.32142	1.41431	0.00153	5.53567	2.19E-05	1.19E-02	3.82E-06	4.55E-04	1.24E-02
498	UCART12	441056.6	3762008.86	441056.61, 3762008.86	1.26068	1.34646	0.00147	5.21033	2.09E-05	1.13E-02	3.67E-06	4.29E-04	1.18E-02
499	UCART12	441106.6	3762008.86	441106.61, 3762008.86	1.20563	1.28511	0.00142	4.7352	2.00E-05	1.08E-02	3.55E-06	3.90E-04	1.12E-02
500	UCART12	441156.6	3762008.86	441156.61, 3762008.86	1.15464	1.22841	0.00136	3.95343	1.91E-05	1.03E-02	3.40E-06	3.25E-04	1.07E-02
501	UCART12	440406.6	3762058.86	440406.61, 3762058.86	2.86371	3.26349	0.00337	18.14263	4.74E-05	2.74E-02	8.42E-06	1.49E-03	2.90E-02
502	UCART12	440456.6	3762058.86	440456.61, 3762058.86	2.68655	3.03598	0.00318	17.02844	4.45E-05	2.55E-02	7.94E-06	1.40E-03	2.70E-02
503	UCART12	440506.6	3762058.86	440506.61, 3762058.86	2.52199	2.82739	0.003	16.37055	4.18E-05	2.38E-02	7.49E-06	1.35E-03	2.52E-02
504	UCART12	440556.6	3762058.86	440556.61, 3762058.86	2.36826	2.63572	0.00283	15.90503	3.92E-05	2.22E-02	7.07E-06	1.31E-03	2.35E-02
505	UCART12	440606.6	3762058.86	440606.61, 3762058.86	2.22471	2.4602	0.00268	15.55753	3.69E-05	2.07E-02	6.69E-06	1.28E-03	2.20E-02
506	UCART12	440656.6	3762058.86	440656.61, 3762058.86	2.09342	2.30253	0.00254	15.26072	3.47E-05	1.94E-02	6.34E-06	1.26E-03	2.07E-02
507	UCART12	440706.6	3762058.86	440706.61, 3762058.86	1.9739	2.16117	0.0024	15.11053	3.27E-05	1.82E-02	5.99E-06	1.24E-03	1.95E-02
508	UCART12	440756.6	3762058.86	440756.61, 3762058.86	1.8627	2.03134	0.00228	14.93967	3.09E-05	1.71E-02	5.69E-06	1.23E-03	1.83E-02
509	UCART12	440806.6	3762058.86	440806.61, 3762058.86	1.75727	1.90958	0.00217	14.48465	2.91E-05	1.61E-02	5.42E-06	1.19E-03	1.73E-02
510	UCART12	440856.6	3762058.86	440856.61, 3762058.86	1.66416	1.80242	0.00207	14.38902	2.76E-05	1.52E-02	5.17E-06	1.18E-03	1.64E-02
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	1.5796	1.70557	0.00197	14.3195	2.62E-05	1.43E-02	4.92E-06	1.18E-03	1.56E-02
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	1.50009	1.61517	0.00187	14.03677	2.48E-05	1.36E-02	4.67E-06	1.15E-03	1.48E-02
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	1.42646	1.53191	0.00179	13.73519	2.36E-05	1.29E-02	4.47E-06	1.13E-03	1.40E-02
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	1.35862	1.45552	0.00171	13.34084	2.25E-05	1.22E-02	4.27E-06	1.10E-03	1.34E-02
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	1.29587	1.38509	0.00163	12.60778	2.15E-05	1.16E-02	4.07E-06	1.04E-03	1.27E-02
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	1.23791	1.32018	0.00156	9.44031	2.05E-05	1.11E-02	3.90E-06	7.77E-04	1.19E-02
517	ONSITE	440191.4	3762138.44	440191.38, 3762138.44	5.12713	6.58209	0.0123	9.0566	8.49E-05	5.54E-02	3.07E-05	7.45E-04	5.62E-02
518	ONSITE	440241.4	3762138.44	440241.38, 3762138.44	4.71402	5.88144	0.01026	9.03853	7.81E-05	4.95E-02	2.56E-05	7.44E-04	5.03E-02
519	ONSITE	440291.4	3762138.44	440291.38, 3762138.44	4.34621	5.29463	0.00833	9.44537	7.20E-05	4.45E-02	2.08E-05	7.77E-04	4.54E-02
520	ONSITE	440341.4	3762138.44	440341.38, 3762138.44	3.99923	4.77354	0.00698	11.22829	6.62E-05	4.01E-02	1.74E-05	9.24E-04	4.12E-02
521	ONSITE	440191.4	3762188.44	440191.38, 3762188.44	6.59082	9.25317	0.03572	7.20016	1.09E-04	7.78E-02	8.92E-05	5.92E-04	7.86E-02
522	ONSITE	440241.4	3762188.44	440241.38, 3762188.44	5.8306	7.63443	0.01908	7.24253	9.66E-05	6.42E-02	4.76E-05	5.96E-04	6.49E-02
523	ONSITE	440291.4	3762188.44	440291.38, 3762188.44	5.2851	6.63094	0.01291	7.74744	8.75E-05	5.58E-02	3.22E-05	6.37E-04	5.65E-02
524	ONSITE	440341.4	3762188.44	440341.38, 3762188.44	4.79182	5.83415	0.00992	9.822	7.94E-05	4.91E-02	2.48E-05	8.08E-04	5.00E-02
525	ONSITE	440191.4	3762238.44	440191.38, 3762238.44	8.64125	12.70318	0.04595	6.46981	1.43E-04	1.07E-01	1.15E-04	5.32E-04	1.08E-01
526	ONSITE	440241.4	3762238.44	440241.38, 3762238.44	7.32189	9.77868	0.02485	6.52231	1.21E-04	8.22E-02	6.21E-05	5.37E-04	8.30E-02
527	ONSITE	440291.4	3762238.44	440291.38, 3762238.44	6.46865	8.21896	0.01682	7.07645	1.07E-04	6.91E-02	4.20E-05	5.82E-04	6.99E-02
528	ONSITE	440341.4	3762238.44	440341.38, 3762238.44	5.75147	7.08414	0.01292	9.26496	9.53E-05	5.96E-02	3.23E-05	7.62E-04	6.05E-02

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
475	UCART11	1.1E-05	3.4E-05	2.7E-05	2.3E-05	1.0E-05	0.0E+00	0.0E+00	8.8E-06	7.6E-06	1.7E-06	1.8E-05
476	UCART11	1.0E-05	3.1E-05	2.4E-05	2.1E-05	9.5E-06	0.0E+00	0.0E+00	8.0E-06	6.9E-06	1.5E-06	1.6E-05
477	UCART11	9.4E-06	2.9E-05	2.3E-05	1.9E-05	8.8E-06	0.0E+00	0.0E+00	7.4E-06	6.4E-06	1.4E-06	1.5E-05
478	UCART11	8.8E-06	2.6E-05	2.1E-05	1.8E-05	8.1E-06	0.0E+00	0.0E+00	6.9E-06	6.0E-06	1.3E-06	1.4E-05
479	UCART11	8.2E-06	2.5E-05	1.9E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	6.4E-06	5.6E-06	1.2E-06	1.3E-05
480	UCART11	1.3E-05	3.9E-05	3.1E-05	2.7E-05	1.2E-05	0.0E+00	0.0E+00	1.0E-05	8.8E-06	1.9E-06	2.1E-05
481	UCART11	1.2E-05	3.5E-05	2.8E-05	2.4E-05	1.1E-05	0.0E+00	0.0E+00	9.1E-06	7.9E-06	1.7E-06	1.9E-05
482	UCART11	1.1E-05	3.2E-05	2.5E-05	2.2E-05	9.8E-06	0.0E+00	0.0E+00	8.3E-06	7.2E-06	1.6E-06	1.7E-05
483	UCART11	9.7E-06	2.9E-05	2.3E-05	2.0E-05	9.0E-06	0.0E+00	0.0E+00	7.6E-06	6.6E-06	1.4E-06	1.6E-05
484	UCART11	9.0E-06	2.7E-05	2.1E-05	1.8E-05	8.3E-06	0.0E+00	0.0E+00	7.1E-06	6.1E-06	1.3E-06	1.4E-05
485	UCART12	8.4E-06	2.5E-05	2.0E-05	1.7E-05	7.8E-06	0.0E+00	0.0E+00	6.6E-06	5.7E-06	1.3E-06	1.4E-05
486	UCART12	7.9E-06	2.4E-05	1.9E-05	1.6E-05	7.4E-06	0.0E+00	0.0E+00	6.2E-06	5.4E-06	1.2E-06	1.3E-05
487	UCART12	7.5E-06	2.3E-05	1.8E-05	1.5E-05	6.9E-06	0.0E+00	0.0E+00	5.9E-06	5.1E-06	1.1E-06	1.2E-05
488	UCART12	7.0E-06	2.1E-05	1.7E-05	1.4E-05	6.5E-06	0.0E+00	0.0E+00	5.5E-06	4.8E-06	1.0E-06	1.1E-05
489	UCART12	6.6E-06	2.0E-05	1.6E-05	1.4E-05	6.1E-06	0.0E+00	0.0E+00	5.2E-06	4.5E-06	9.8E-07	1.1E-05
490	UCART12	6.2E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.9E-06	4.2E-06	9.3E-07	1.0E-05
491	UCART12	5.9E-06	1.8E-05	1.4E-05	1.2E-05	5.4E-06	0.0E+00	0.0E+00	4.6E-06	4.0E-06	8.7E-07	9.5E-06
492	UCART12	5.5E-06	1.7E-05	1.3E-05	1.1E-05	5.1E-06	0.0E+00	0.0E+00	4.4E-06	3.8E-06	8.3E-07	9.0E-06
493	UCART12	5.2E-06	1.6E-05	1.2E-05	1.1E-05	4.9E-06	0.0E+00	0.0E+00	4.1E-06	3.6E-06	7.8E-07	8.5E-06
494	UCART12	5.0E-06	1.5E-05	1.2E-05	1.0E-05	4.6E-06	0.0E+00	0.0E+00	3.9E-06	3.4E-06	7.4E-07	8.0E-06
495	UCART12	4.7E-06	1.4E-05	1.1E-05	9.8E-06	4.4E-06	0.0E+00	0.0E+00	3.7E-06	3.2E-06	7.1E-07	7.7E-06
496	UCART12	4.5E-06	1.4E-05	1.1E-05	9.3E-06	4.2E-06	0.0E+00	0.0E+00	3.5E-06	3.1E-06	6.7E-07	7.3E-06
497	UCART12	4.3E-06	1.3E-05	1.0E-05	8.8E-06	4.0E-06	0.0E+00	0.0E+00	3.4E-06	2.9E-06	6.4E-07	6.9E-06
498	UCART12	4.1E-06	1.2E-05	9.7E-06	8.4E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.6E-06
499	UCART12	3.9E-06	1.2E-05	9.3E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	3.1E-06	2.6E-06	5.8E-07	6.3E-06
500	UCART12	3.7E-06	1.1E-05	8.8E-06	7.6E-06	3.4E-06	0.0E+00	0.0E+00	2.9E-06	2.5E-06	5.5E-07	6.0E-06
501	UCART12	1.0E-05	3.0E-05	2.4E-05	2.1E-05	9.3E-06	0.0E+00	0.0E+00	7.9E-06	6.8E-06	1.5E-06	1.6E-05
502	UCART12	9.3E-06	2.8E-05	2.2E-05	1.9E-05	8.7E-06	0.0E+00	0.0E+00	7.4E-06	6.4E-06	1.4E-06	1.5E-05
503	UCART12	8.7E-06	2.6E-05	2.1E-05	1.8E-05	8.1E-06	0.0E+00	0.0E+00	6.9E-06	5.9E-06	1.3E-06	1.4E-05
504	UCART12	8.1E-06	2.5E-05	1.9E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	6.4E-06	5.5E-06	1.2E-06	1.3E-05
505	UCART12	7.6E-06	2.3E-05	1.8E-05	1.6E-05	7.1E-06	0.0E+00	0.0E+00	6.0E-06	5.2E-06	1.1E-06	1.2E-05
506	UCART12	7.2E-06	2.2E-05	1.7E-05	1.5E-05	6.6E-06	0.0E+00	0.0E+00	5.6E-06	4.9E-06	1.1E-06	1.2E-05
507	UCART12	6.7E-06	2.0E-05	1.6E-05	1.4E-05	6.3E-06	0.0E+00	0.0E+00	5.3E-06	4.6E-06	1.0E-06	1.1E-05
508	UCART12	6.4E-06	1.9E-05	1.5E-05	1.3E-05	5.9E-06	0.0E+00	0.0E+00	5.0E-06	4.3E-06	9.5E-07	1.0E-05
509	UCART12	6.0E-06	1.8E-05	1.4E-05	1.2E-05	5.6E-06	0.0E+00	0.0E+00	4.7E-06	4.1E-06	8.9E-07	9.7E-06
510	UCART12	5.7E-06	1.7E-05	1.4E-05	1.2E-05	5.3E-06	0.0E+00	0.0E+00	4.5E-06	3.9E-06	8.4E-07	9.2E-06
511	UCART12	5.4E-06	1.6E-05	1.3E-05	1.1E-05	5.0E-06	0.0E+00	0.0E+00	4.2E-06	3.7E-06	8.0E-07	8.7E-06
512	UCART12	5.1E-06	1.5E-05	1.2E-05	1.1E-05	4.7E-06	0.0E+00	0.0E+00	4.0E-06	3.5E-06	7.6E-07	8.3E-06
513	UCART12	4.9E-06	1.5E-05	1.2E-05	1.0E-05	4.5E-06	0.0E+00	0.0E+00	3.8E-06	3.3E-06	7.2E-07	7.9E-06
514	UCART12	4.6E-06	1.4E-05	1.1E-05	9.5E-06	4.3E-06	0.0E+00	0.0E+00	3.6E-06	3.2E-06	6.9E-07	7.5E-06
515	UCART12	4.4E-06	1.3E-05	1.0E-05	9.1E-06	4.1E-06	0.0E+00	0.0E+00	3.5E-06	3.0E-06	6.6E-07	7.1E-06
516	UCART12	4.1E-06	1.2E-05	9.8E-06	8.5E-06	3.8E-06	0.0E+00	0.0E+00	3.2E-06	2.8E-06	6.1E-07	6.7E-06
517	ONSITE	1.9E-05	5.9E-05	4.6E-05	4.0E-05	1.8E-05	0.0E+00	0.0E+00	1.5E-05	1.3E-05	2.9E-06	3.1E-05
518	ONSITE	1.7E-05	5.3E-05	4.2E-05	3.6E-05	1.6E-05	0.0E+00	0.0E+00	1.4E-05	1.2E-05	2.6E-06	2.8E-05
519	ONSITE	1.6E-05	4.7E-05	3.7E-05	3.2E-05	1.5E-05	0.0E+00	0.0E+00	1.2E-05	1.1E-05	2.3E-06	2.5E-05
520	ONSITE	1.4E-05	4.3E-05	3.4E-05	2.9E-05	1.3E-05	0.0E+00	0.0E+00	1.1E-05	9.7E-06	2.1E-06	2.3E-05
521	ONSITE	2.7E-05	8.2E-05	6.5E-05	5.6E-05	2.5E-05	0.0E+00	0.0E+00	2.1E-05	1.9E-05	4.1E-06	4.4E-05
522	ONSITE	2.2E-05	6.8E-05	5.4E-05	4.6E-05	2.1E-05	0.0E+00	0.0E+00	1.8E-05	1.5E-05	3.4E-06	3.6E-05
523	ONSITE	2.0E-05	5.9E-05	4.7E-05	4.0E-05	1.8E-05	0.0E+00	0.0E+00	1.5E-05	1.3E-05	2.9E-06	3.2E-05
524	ONSITE	1.7E-05	5.2E-05	4.1E-05	3.6E-05	1.6E-05	0.0E+00	0.0E+00	1.4E-05	1.2E-05	2.6E-06	2.8E-05
525	ONSITE	3.7E-05	1.1E-04	8.9E-05	7.7E-05	3.5E-05	0.0E+00	0.0E+00	2.9E-05	2.5E-05	5.6E-06	6.0E-05
526	ONSITE	2.9E-05	8.7E-05	6.8E-05	5.9E-05	2.7E-05	0.0E+00	0.0E+00	2.3E-05	2.0E-05	4.3E-06	4.6E-05
527	ONSITE	2.4E-05	7.3E-05	5.8E-05	5.0E-05	2.2E-05	0.0E+00	0.0E+00	1.9E-05	1.6E-05	3.6E-06	3.9E-05
528	ONSITE	2.1E-05	6.3E-05	5.0E-05	4.3E-05	1.9E-05	0.0E+00	0.0E+00	1.6E-05	1.4E-05	3.1E-06	3.4E-05

PHASE 1 OPERATIONAL

Mitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	0.96271	1.04666	0.00035	1.94616	1.59E-05	1.48E-06	8.74E-07	1.60E-04	1.78E-04
2	1	439943.4	3761716.33	439943.36, 3761716.33	1.53963	1.71335	0.00063	15.84506	2.55E-05	2.41E-06	1.57E-06	1.30E-03	1.33E-03
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	0.96577	0.91556	0.00028	0.93443	1.60E-05	1.29E-06	6.99E-07	7.69E-05	9.49E-05
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	1.02499	0.96856	0.00029	1.00922	1.70E-05	1.37E-06	7.24E-07	8.30E-05	1.02E-04
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	1.10241	1.03972	0.00031	1.10142	1.83E-05	1.47E-06	7.74E-07	9.06E-05	1.11E-04
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	1.18295	1.11506	0.00032	1.20541	1.96E-05	1.57E-06	7.99E-07	9.92E-05	1.21E-04
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	1.27606	1.20129	0.00033	1.33238	2.11E-05	1.69E-06	8.24E-07	1.10E-04	1.33E-04
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	1.38452	1.30157	0.00035	1.48768	2.29E-05	1.83E-06	8.74E-07	1.22E-04	1.48E-04
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	1.51432	1.41981	0.00036	1.68061	2.51E-05	2.00E-06	8.99E-07	1.38E-04	1.66E-04
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	1.64838	1.54343	0.00038	1.91617	2.73E-05	2.18E-06	9.49E-07	1.58E-04	1.88E-04
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	1.79826	1.67664	0.00039	2.21746	2.98E-05	2.36E-06	9.74E-07	1.82E-04	2.16E-04
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	1.94965	1.82263	0.0004	2.61259	3.23E-05	2.57E-06	9.99E-07	2.15E-04	2.51E-04
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	2.12235	1.9827	0.00041	3.15855	3.52E-05	2.79E-06	1.02E-06	2.60E-04	2.99E-04
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	2.32408	2.16233	0.00042	3.97542	3.85E-05	3.05E-06	1.05E-06	3.27E-04	3.70E-04
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	2.55362	2.36355	0.00045	5.32306	4.23E-05	3.33E-06	1.12E-06	4.38E-04	4.85E-04
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	2.79414	2.57863	0.00049	8.03992	4.63E-05	3.63E-06	1.22E-06	6.61E-04	7.12E-04
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	3.04907	2.81055	0.00054	17.26154	5.05E-05	3.96E-06	1.35E-06	1.42E-03	1.48E-03
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	0.91874	0.86923	0.00024	0.90257	1.52E-05	1.23E-06	5.99E-07	7.42E-05	9.13E-05
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	0.97779	0.92391	0.00025	0.97447	1.62E-05	1.30E-06	6.24E-07	8.02E-05	9.83E-05
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	1.04875	0.98971	0.00026	1.06449	1.74E-05	1.39E-06	6.49E-07	8.76E-05	1.07E-04
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	1.12106	1.0565	0.00027	1.16167	1.86E-05	1.49E-06	6.74E-07	9.56E-05	1.16E-04
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	1.20511	1.13419	0.00028	1.28326	2.00E-05	1.60E-06	6.99E-07	1.06E-04	1.28E-04
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	1.30238	1.22394	0.00028	1.43395	2.16E-05	1.73E-06	6.99E-07	1.18E-04	1.42E-04
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	1.4016	1.31554	0.00029	1.61199	2.32E-05	1.85E-06	7.24E-07	1.33E-04	1.58E-04
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	1.51209	1.41775	0.00029	1.83385	2.50E-05	2.00E-06	7.24E-07	1.51E-04	1.79E-04
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	1.64442	1.53794	0.0003	2.12776	2.72E-05	2.17E-06	7.49E-07	1.75E-04	2.05E-04
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	1.78303	1.66432	0.0003	2.50916	2.95E-05	2.35E-06	7.49E-07	2.06E-04	2.39E-04
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	1.9201	1.78507	0.00031	3.03919	3.18E-05	2.52E-06	7.74E-07	2.50E-04	2.85E-04
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	2.06946	1.92436	0.00033	3.83111	3.43E-05	2.71E-06	8.24E-07	3.15E-04	3.53E-04
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	2.23205	2.07993	0.00035	5.14215	3.70E-05	2.93E-06	8.74E-07	4.23E-04	4.64E-04
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	2.40252	2.24178	0.00038	7.80064	3.98E-05	3.16E-06	9.49E-07	6.42E-04	6.86E-04
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	2.58374	2.39721	0.00043	16.82323	4.28E-05	3.38E-06	1.07E-06	1.38E-03	1.43E-03
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	0.87694	0.82969	0.00021	0.86963	1.45E-05	1.17E-06	5.24E-07	7.15E-05	8.78E-05
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	0.93151	0.88102	0.00022	0.94016	1.54E-05	1.24E-06	5.49E-07	7.73E-05	9.46E-05
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	0.99718	0.9409	0.00022	1.0246	1.65E-05	1.33E-06	5.49E-07	8.43E-05	1.03E-04
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	1.05797	0.99739	0.00022	1.11696	1.75E-05	1.41E-06	5.49E-07	9.19E-05	1.11E-04
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	1.13421	1.06898	0.00022	1.23282	1.88E-05	1.51E-06	5.49E-07	1.01E-04	1.22E-04
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	1.22252	1.14868	0.00023	1.37589	2.03E-05	1.62E-06	5.74E-07	1.13E-04	1.36E-04
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	1.30525	1.22658	0.00023	1.54181	2.16E-05	1.73E-06	5.74E-07	1.27E-04	1.51E-04
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	1.40168	1.31251	0.00023	1.75477	2.32E-05	1.85E-06	5.74E-07	1.44E-04	1.70E-04
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	1.50877	1.40998	0.00023	2.03	2.50E-05	1.99E-06	5.74E-07	1.67E-04	1.95E-04
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	1.62622	1.51623	0.00024	2.39715	2.69E-05	2.14E-06	5.99E-07	1.97E-04	2.27E-04
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	1.71996	1.60994	0.00025	2.90103	2.85E-05	2.27E-06	6.24E-07	2.39E-04	2.70E-04
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	1.8168	1.70948	0.00026	3.6597	3.01E-05	2.41E-06	6.49E-07	3.01E-04	3.34E-04
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	1.93512	1.8089	0.00028	4.93879	3.21E-05	2.55E-06	6.99E-07	4.06E-04	4.42E-04
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	2.06706	1.92089	0.00031	7.55341	3.42E-05	2.71E-06	7.74E-07	6.21E-04	6.59E-04
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	2.19918	2.01724	0.00035	16.38348	3.64E-05	2.84E-06	8.74E-07	1.35E-03	1.39E-03
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	0.83283	0.78791	0.00018	0.83551	1.38E-05	1.11E-06	4.49E-07	6.87E-05	8.41E-05
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	0.88376	0.83492	0.00018	0.90257	1.46E-05	1.18E-06	4.49E-07	7.42E-05	9.05E-05
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	0.94279	0.88984	0.00018	0.9831	1.56E-05	1.25E-06	4.49E-07	8.09E-05	9.82E-05
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	1.00198	0.9432	0.00018	1.07382	1.66E-05	1.33E-06	4.49E-07	8.83E-05	1.07E-04
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	1.06858	1.00604	0.00018	1.18222	1.77E-05	1.42E-06	4.49E-07	9.72E-05	1.17E-04
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	1.14072	1.07196	0.00018	1.31249	1.89E-05	1.51E-06	4.49E-07	1.08E-04	1.29E-04
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	1.20775	1.13406	0.00018	1.4679	2.00E-05	1.60E-06	4.49E-07	1.21E-04	1.43E-04
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	1.28888	1.20934	0.00018	1.66757	2.13E-05	1.70E-06	4.49E-07	1.37E-04	1.61E-04
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	1.38	1.29112	0.00018	1.92626	2.29E-05	1.82E-06	4.49E-07	1.58E-04	1.84E-04
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	1.47833	1.37839	0.00019	2.27223	2.45E-05	1.94E-06	4.74E-07	1.87E-04	2.14E-04
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	1.5525	1.4619	0.0002	2.74984	2.57E-05	2.06E-06	4.99E-07	2.26E-04	2.54E-04
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	1.62733	1.52512	0.00022	3.47656	2.70E-05	2.15E-06	5.49E-07	2.86E-04	3.16E-04
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	1.70816	1.57322	0.00024	4.71507	2.83E-05	2.22E-06	5.99E-07	3.88E-04	4.19E-04
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	1.73383	1.64626	0.00026	7.27055	2.87E-05	2.32E-06	6.49E-07	5.98E-04	6.30E-04
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	1.80003	1.6622	0.00029	15.92082	2.98E-05	2.34E-06	7.24E-07	1.31E-03	1.34E-03
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	0.77994	0.74715	0.00015	0.79863	1.29E-05	1.05E-06	3.75E-07	6.57E-05	8.00E-05
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	0.81455	0.7777	0.00015	0.85604	1.35E-05	1.10E-06	3.75E-07	7.04E-05	8.54E-05
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	0.86356	0.82568	0.00015	0.92873	1.43E-05	1.16E-06	3.75E-07	7.64E-05	9.22E-05
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	0.92183	0.87983	0.00015	1.01714	1.53E-05	1.24E-06	3.75E-07	8.37E-05	1.01E-04
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	0.99187	0.94042	0.00015	1.12319	1.64E-05	1.33E-06	3.75E-07	9.24E-05	1.11E-04
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	1.04024	0.99258	0.00014	1.23809	1.72E-05	1.40E-06	3.50E-07	1.02E-04	1.21E-04
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	1.09789	1.04222	0.00014	1.38054	1.82E-05	1.47E-06	3.50E-07	1.14E-04	1.34E-04
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	1.16	1.09839	0.00014	1.56037	1.92E-05	1.55E-06	3.50E-07	1.28E-04	1.49E-04
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	1.24806	1.18519	0.00015	1.80784	2.07E-05	1.67E-06	3.75E-07	1.49E-04	1.71E-04
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	1.32059	1.24983	0.00016	2.12441	2.19E-05	1.76E-06	4.00E-07	1.75E-04	1.99E-04
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	1.39469	1.31563	0.00017	2.57712	2.31E-05	1.85E-06	4.25E-07	2.12E-04	2.37E-04
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	1.44888	1.34247	0.00018	3.2613	2.40E-05	1.89E-06	4.49E-07	2.68E-04	2.95E-04
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	1.42272	1.32782	0.0002	4.44217	2.36E-05	1.87E-06	4.99E-07	3.65E-04	3.91E-04
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	1.47666	1.35822	0.00023	6.9307	2.45E-05	1.91E-06	5.74E-07	5.70E-04	5.97E-04
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	1.54169	1.41441	0.00025	15.37469	2.55E-05	1.99E-06	6.24E-07	1.26E-03	1.29E-03
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	0.73317	0.70045	0.00013	0.76167	1.21E-05	9.87E-07	3.25E-07	6.27E-05	7.61E-05
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	0.7633	0.72446	0.00012	0.81536	1.26E-05	1.02E-06	3.00E-07	6.71E-05	8.10E-05
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	0.81837	0.78103	0.00012	0.8876	1.36E-05	1.10E-06	3.00E-07	7.30E-05	8.80E-05

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
1	1	6.2E-08	1.9E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	4.9E-08	4.2E-08	9.2E-09	1.0E-07
2	1	4.6E-07	1.4E-06	1.1E-06	9.5E-07	4.3E-07	0.0E+00	0.0E+00	3.6E-07	3.1E-07	6.9E-08	7.5E-07
3	UCART1	3.3E-08	9.9E-08	7.8E-08	6.8E-08	3.0E-08	0.0E+00	0.0E+00	2.6E-08	2.2E-08	4.9E-09	5.3E-08
4	UCART1	3.5E-08	1.1E-07	8.4E-08	7.3E-08	3.3E-08	0.0E+00	0.0E+00	2.8E-08	2.4E-08	5.3E-09	5.7E-08
5	UCART1	3.8E-08	1.2E-07	9.2E-08	7.9E-08	3.6E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.7E-09	6.2E-08
6	UCART1	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.9E-08	6.2E-09	6.8E-08
7	UCART1	4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.9E-09	7.5E-08
8	UCART1	5.1E-08	1.5E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.0E-08	3.5E-08	7.6E-09	8.3E-08
9	UCART1	5.8E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.6E-09	9.3E-08
10	UCART1	6.5E-08	2.0E-07	1.6E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	5.1E-08	4.4E-08	9.7E-09	1.1E-07
11	UCART1	7.5E-08	2.3E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	5.9E-08	5.1E-08	1.1E-08	1.2E-07
12	UCART1	8.7E-08	2.6E-07	2.1E-07	1.8E-07	8.1E-08	0.0E+00	0.0E+00	6.8E-08	5.9E-08	1.3E-08	1.4E-07
13	UCART1	1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	0.0E+00	0.0E+00	8.1E-08	7.0E-08	1.5E-08	1.7E-07
14	UCART1	1.3E-07	3.9E-07	3.1E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.0E-07	8.7E-08	1.9E-08	2.1E-07
15	UCART1	1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	1.3E-07	1.1E-07	2.5E-08	2.7E-07
16	UCART1	2.5E-07	7.4E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	1.9E-07	1.7E-07	3.7E-08	4.0E-07
17	UCART1	5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.7E-07	0.0E+00	0.0E+00	4.0E-07	3.5E-07	7.6E-08	8.3E-07
18	UCART1	3.2E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	0.0E+00	0.0E+00	2.5E-08	2.2E-08	4.7E-09	5.1E-08
19	UCART1	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.3E-08	5.1E-09	5.5E-08
20	UCART1	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.5E-09	6.0E-08
21	UCART1	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	0.0E+00	0.0E+00	3.2E-08	2.7E-08	6.0E-09	6.5E-08
22	UCART1	4.4E-08	1.3E-07	1.1E-07	9.1E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.6E-09	7.2E-08
23	UCART1	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	3.9E-08	3.3E-08	7.3E-09	7.9E-08
24	UCART1	5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	4.3E-08	3.7E-08	8.2E-09	8.9E-08
25	UCART1	6.2E-08	1.9E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	4.9E-08	4.2E-08	9.2E-09	1.0E-07
26	UCART1	7.1E-08	2.1E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	5.6E-08	4.8E-08	1.1E-08	1.1E-07
27	UCART1	8.3E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	0.0E+00	0.0E+00	6.5E-08	5.6E-08	1.2E-08	1.3E-07
28	UCART1	9.9E-08	3.0E-07	2.4E-07	2.0E-07	9.2E-08	0.0E+00	0.0E+00	7.8E-08	6.7E-08	1.5E-08	1.6E-07
29	UCART1	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	9.6E-08	8.3E-08	1.8E-08	2.0E-07
30	UCART1	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	1.3E-07	1.1E-07	2.4E-08	2.6E-07
31	UCART1	2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	0.0E+00	0.0E+00	1.9E-07	1.6E-07	3.5E-08	3.8E-07
32	UCART1	5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	0.0E+00	0.0E+00	3.9E-07	3.4E-07	7.4E-08	8.0E-07
33	UCART1	3.0E-08	9.2E-08	7.2E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	2.4E-08	2.1E-08	4.5E-09	4.9E-08
34	UCART1	3.3E-08	9.9E-08	7.8E-08	6.8E-08	3.0E-08	0.0E+00	0.0E+00	2.6E-08	2.2E-08	4.9E-09	5.3E-08
35	UCART1	3.6E-08	1.1E-07	8.5E-08	7.3E-08	3.3E-08	0.0E+00	0.0E+00	2.8E-08	2.4E-08	5.3E-09	5.7E-08
36	UCART1	3.9E-08	1.2E-07	9.2E-08	8.0E-08	3.6E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.7E-09	6.2E-08
37	UCART1	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.9E-08	6.3E-09	6.8E-08
38	UCART1	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.0E-09	7.6E-08
39	UCART1	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.1E-08	3.6E-08	7.8E-09	8.4E-08
40	UCART1	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	0.0E+00	0.0E+00	4.6E-08	4.0E-08	8.8E-09	9.5E-08
41	UCART1	6.7E-08	2.0E-07	1.6E-07	1.4E-07	6.2E-08	0.0E+00	0.0E+00	5.3E-08	4.6E-08	1.0E-08	1.1E-07
42	UCART1	7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	0.0E+00	0.0E+00	6.2E-08	5.3E-08	1.2E-08	1.3E-07
43	UCART1	9.3E-08	2.8E-07	2.2E-07	1.9E-07	8.7E-08	0.0E+00	0.0E+00	7.4E-08	6.4E-08	1.4E-08	1.5E-07
44	UCART1	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	9.1E-08	7.9E-08	1.7E-08	1.9E-07
45	UCART1	1.5E-07	4.6E-07	3.6E-07	3.2E-07	1.4E-07	0.0E+00	0.0E+00	1.2E-07	1.0E-07	2.3E-08	2.5E-07
46	UCART1	2.3E-07	6.9E-07	5.4E-07	4.7E-07	2.1E-07	0.0E+00	0.0E+00	1.8E-07	1.6E-07	3.4E-08	3.7E-07
47	UCART1	4.8E-07	1.5E-06	1.1E-06	9.9E-07	4.5E-07	0.0E+00	0.0E+00	3.8E-07	3.3E-07	7.2E-08	7.8E-07
48	UCART1	2.9E-08	8.8E-08	6.9E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	2.3E-08	2.0E-08	4.3E-09	4.7E-08
49	UCART1	3.1E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	0.0E+00	0.0E+00	2.5E-08	2.1E-08	4.7E-09	5.1E-08
50	UCART1	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.3E-08	5.1E-09	5.5E-08
51	UCART1	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.5E-09	6.0E-08
52	UCART1	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.0E-09	6.5E-08
53	UCART1	4.5E-08	1.3E-07	1.1E-07	9.2E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.6E-09	7.2E-08
54	UCART1	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	3.9E-08	3.4E-08	7.4E-09	8.0E-08
55	UCART1	5.6E-08	1.7E-07	1.3E-07	1.1E-07	5.2E-08	0.0E+00	0.0E+00	4.4E-08	3.8E-08	8.3E-09	9.0E-08
56	UCART1	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	5.0E-08	4.3E-08	9.5E-09	1.0E-07
57	UCART1	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	5.8E-08	5.0E-08	1.1E-08	1.2E-07
58	UCART1	8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	0.0E+00	0.0E+00	6.9E-08	6.0E-08	1.3E-08	1.4E-07
59	UCART1	1.1E-07

PHASE 1 OPERATIONAL

Mitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	0.8661	0.82755	0.00012	0.9678	1.43E-05	1.17E-06	3.00E-07	7.96E-05	9.54E-05
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	0.92413	0.88332	0.00012	1.06452	1.53E-05	1.24E-06	3.00E-07	8.76E-05	1.04E-04
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	0.96982	0.92302	0.00012	1.17049	1.61E-05	1.30E-06	3.00E-07	9.63E-05	1.14E-04
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	1.01629	0.96293	0.00012	1.29941	1.68E-05	1.36E-06	3.00E-07	1.07E-04	1.25E-04
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	1.06552	1.00307	0.00012	1.46189	1.76E-05	1.41E-06	3.00E-07	1.20E-04	1.40E-04
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	1.13338	1.07108	0.00012	1.68157	1.88E-05	1.51E-06	3.00E-07	1.38E-04	1.59E-04
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	1.20412	1.13639	0.00013	1.97239	1.99E-05	1.60E-06	3.25E-07	1.62E-04	1.84E-04
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	1.25559	1.17306	0.00015	2.37757	2.08E-05	1.65E-06	3.75E-07	1.96E-04	2.18E-04
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	1.25491	1.20225	0.00016	3.00485	2.08E-05	1.69E-06	4.00E-07	2.47E-04	2.70E-04
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	1.25268	1.16182	0.00018	4.10058	2.07E-05	1.64E-06	4.49E-07	3.37E-04	3.60E-04
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	1.28842	1.19823	0.0002	6.46213	2.13E-05	1.69E-06	4.99E-07	5.32E-04	5.55E-04
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	1.33178	1.23732	0.00022	14.68611	2.21E-05	1.74E-06	5.49E-07	1.21E-03	1.23E-03
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	0.67485	0.65212	0.0001	0.72442	1.12E-05	9.19E-07	2.50E-07	5.96E-05	7.19E-05
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	0.70009	0.66922	0.0001	0.77651	1.16E-05	9.43E-07	2.50E-07	6.39E-05	7.67E-05
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	0.76734	0.7274	0.0001	0.84334	1.27E-05	1.03E-06	2.50E-07	6.94E-05	8.34E-05
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	0.78668	0.75806	0.0001	0.91008	1.30E-05	1.07E-06	2.50E-07	7.49E-05	8.92E-05
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	0.84627	0.79972	0.0001	0.99691	1.40E-05	1.13E-06	2.50E-07	8.20E-05	9.74E-05
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	0.857	0.82871	0.0001	1.09042	1.42E-05	1.17E-06	2.50E-07	8.97E-05	1.05E-04
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	0.88937	0.84012	0.0001	1.20517	1.47E-05	1.18E-06	2.50E-07	9.91E-05	1.15E-04
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	0.95389	0.91751	0.0001	1.35932	1.58E-05	1.29E-06	2.50E-07	1.12E-04	1.29E-04
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	1.01902	0.96899	0.00011	1.55046	1.69E-05	1.37E-06	2.75E-07	1.28E-04	1.46E-04
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	1.08934	1.01891	0.00012	1.80739	1.80E-05	1.44E-06	3.00E-07	1.49E-04	1.68E-04
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	1.0844	1.01748	0.00013	2.15751	1.80E-05	1.43E-06	3.25E-07	1.77E-04	1.97E-04
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	1.11697	1.04823	0.00014	2.70065	1.85E-05	1.48E-06	3.50E-07	2.22E-04	2.42E-04
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	1.12122	1.04654	0.00016	3.64934	1.86E-05	1.47E-06	4.00E-07	3.00E-04	3.21E-04
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	1.14619	1.06953	0.00018	5.77154	1.90E-05	1.51E-06	4.49E-07	4.75E-04	4.96E-04
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	1.1743	1.09515	0.00019	13.58306	1.95E-05	1.54E-06	4.74E-07	1.12E-03	1.14E-03
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	0.62462	0.59229	9.00E-05	0.68866	1.03E-05	8.35E-07	2.25E-07	5.66E-05	6.81E-05
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	0.65198	0.61735	8.00E-05	0.73531	1.08E-05	8.70E-07	2.00E-07	6.05E-05	7.24E-05
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	0.6981	0.67195	8.00E-05	0.79814	1.16E-05	9.47E-07	2.00E-07	6.57E-05	7.84E-05
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	0.73039	0.69889	8.00E-05	0.86223	1.21E-05	9.85E-07	2.00E-07	7.09E-05	8.42E-05
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	0.76015	0.72083	8.00E-05	0.93402	1.26E-05	1.02E-06	2.00E-07	7.68E-05	9.06E-05
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	0.79454	0.75221	8.00E-05	1.0211	1.32E-05	1.06E-06	2.00E-07	8.40E-05	9.84E-05
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	0.82061	0.77011	8.00E-05	1.12378	1.36E-05	1.09E-06	2.00E-07	9.24E-05	1.07E-04
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	0.87018	0.8208	9.00E-05	1.25565	1.44E-05	1.16E-06	2.25E-07	1.03E-04	1.19E-04
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	0.90751	0.85482	0.0001	1.41796	1.50E-05	1.20E-06	2.50E-07	1.17E-04	1.33E-04
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	0.94967	0.89247	0.00011	1.63158	1.57E-05	1.26E-06	2.75E-07	1.34E-04	1.51E-04
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	0.97173	0.90445	0.00012	1.91949	1.61E-05	1.27E-06	3.00E-07	1.58E-04	1.76E-04
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	0.99289	0.92608	0.00013	2.35086	1.64E-05	1.31E-06	3.25E-07	1.93E-04	2.11E-04
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	1.00396	0.93992	0.00014	3.07153	1.66E-05	1.32E-06	3.50E-07	2.53E-04	2.71E-04
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	1.02306	0.95771	0.00016	4.68232	1.69E-05	1.35E-06	4.00E-07	3.85E-04	4.04E-04
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	1.04651	0.97914	0.00017	11.06055	1.73E-05	1.38E-06	4.25E-07	9.10E-04	9.29E-04
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	1.18411	1.12512	0.00042	1.09205	1.96E-05	1.59E-06	1.05E-06	8.98E-05	1.12E-04
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	1.28145	1.21539	0.00046	1.18759	2.12E-05	1.71E-06	1.15E-06	9.77E-05	1.22E-04
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	1.39582	1.32238	0.0005	1.3023	2.31E-05	1.86E-06	1.25E-06	1.07E-04	1.33E-04
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	1.53696	1.45504	0.00055	1.44623	2.55E-05	2.05E-06	1.37E-06	1.19E-04	1.48E-04
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	1.68929	1.59417	0.00061	1.60589	2.80E-05	2.25E-06	1.52E-06	1.32E-04	1.64E-04
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	1.86581	1.75902	0.00067	1.79977	3.09E-05	2.48E-06	1.67E-06	1.48E-04	1.83E-04
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	2.07392	1.95426	0.00075	2.0425	3.44E-05	2.75E-06	1.87E-06	1.68E-04	2.07E-04
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	2.31346	2.18057	0.00084	2.34274	3.83E-05	3.07E-06	2.10E-06	1.93E-04	2.36E-04
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	1.13854	1.08391	0.00038	1.06456	1.89E-05	1.53E-06	9.49E-07	8.76E-05	1.09E-04
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	1.22896	1.17143	0.00042	1.16042	2.04E-05	1.65E-06	1.05E-06	9.55E-05	1.19E-04
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	1.33095	1.26955	0.00045	1.2691	2.20E-05	1.79E-06	1.12E-06	1.04E-04	1.29E-04
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	1.45529	1.38348	0.00049	1.40429	2.41E-05	1.95E-06	1.22E-06	1.16E-04	1.43E-04
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	1.59967	1.51386	0.00053	1.56356	2.65E-05	2.13E-06	1.32E-06	1.29E-04	1.59E-04
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	1.75242	1.66216	0.00058	1.75389	2.90E-05	2.34E-06	1.45E-06	1.44E-04	1.77E-04
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	1.94476	1.83663	0.00064	1.99423	3.22E-05	2.59E-06	1.60E-06	1.64E-04	2.00E-04
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	2.15173	2.03798	0.0007	2.28999	3.56E-05	2.87E-06	1.75E-06	1.88E-04	2.29E-04
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	1.08858	1.02966	0.00035	1.03385	1.80E-05	1.45E-06	8.74E-07	8.50E-05	1.05E-04
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	1.17164	1.10668	0.00037	1.12602	1.94E-05	1.56E-06	9.24E-07	9.26E-05	1.15E-04
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	1.26577	1.19489	0.0004	1.23175	2.10E-05	1.68E-06	9.99E-07	1.01E-04	1.25E-04
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	1.37082	1.29475	0.00043	1.3588	2.27E-05	1.82E-06	1.07E-06	1.12E-04	1.37E-04
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	1.51102	1.43806	0.00046	1.52151	2.50E-05	2.03E-06	1.15E-06	1.25E-04	1.53E-04
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	1.64892	1.56042	0.00049	1.70673	2.73E-05	2.20E-06	1.22E-06	1.40E-04	1.71E-04
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	1.81737	1.72481	0.00053	1.93869	3.01E-05	2.43E-06	1.32E-06	1.59E-04	1.93E-04
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	1.99659	1.87304	0.00057	2.22633	3.31E-05	2.64E-06	1.42E-06	1.83E-04	2.20E-04
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	1.03752	0.98607	0.00031	1.0039	1.72E-05	1.39E-06	7.74E-07	8.26E-05	1.02E-04
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	1.10978	1.04413	0.00033	1.08841	1.84E-05	1.47E-06	8.24E-07	8.95E-05	1.10E-04
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	1.19067	1.12253	0.00035	1.19146	1.97E-05	1.58E-06	8.74E-07	9.80E-05	1.20E-04
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	1.28546	1.21061	0.00037	1.31202	2.13E-05	1.71E-06	9.24E-07	1.08E-04	1.32E-04
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	1.39693	1.31362	0.00039	1.46268	2.31E-05	1.85E-06	9.74E-07	1.20E-04	1.46E-04
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	1.52921	1.43486	0.00041	1.64439	2.53E-05	2.02E-06	1.02E-06	1.35E-04	1.64E-04
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	1.67823	1.58268	0.00043	1.87131	2.78E-05	2.23E-06	1.07E-06	1.54E-04	1.85E-04
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	1.83149	1.71709	0.00045	2.15329	3.03E-05	2.42E-06	1.12E-06	1.77E-04	2.11E-04
155	UCART3	439196	3762392.48	439196.01, 3762392.48	1.32824	1.27922	0.0006	1.23983	2.20E-05	1.80E-06	1.50E-06	1.02E-04	1.27E-04
156	UCART3	439246	3762392.48	439246.01, 3762392.48	1.45736	1.39937	0.00067	1.34927	2.41E-05	1.97E-06	1.67E-06	1.11E-04	1.39E-04
157	UCART3	439296	3762392.48	439296.01, 3762392.48	1.60756	1.53813	0.00075	1.47523	2.66E-05	2.17E-06	1.87E-06	1.21E-04	1.52E-04
158	UCART3	439346	3762392.48	439346.01, 3762392.48	1.78439	1.70007	0.00084	1.62134	2.96E-05	2.40E-06	2.10E-06	1.33E-04	1.67E-04
159	UCART3	439396	3762392.48	439396.01, 3762392.48	1.99469	1.89056	0.00096	1.79429	3.30E-05	2.66E-06	2.40E-06	1.48E-04	1.86E-04
160	UCART3	439446	3762392.48	439446.01, 3762392.48	2.24717	2.11614	0.0011	1.9994	3.72E-05	2.98E-06	2.75E-06	1.64E-04	2.07E-04

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	0.0E+00	0.0E+00	2.6E-08	2.2E-08	4.9E-09	5.3E-08
3.6E-08	1.1E-07	8.6E-08	7.5E-08	3.4E-08	0.0E+00	0.0E+00	2.8E-08	2.5E-08	5.4E-09	5.8E-08
3.9E-08	1.2E-07	9.4E-08	8.1E-08	3.7E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.9E-09	6.4E-08
4.3E-08	1.3E-07	1.0E-07	9.0E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	3.0E-08	6.5E-09	7.0E-08
4.8E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	3.8E-08	3.3E-08	7.2E-09	7.8E-08
5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	4.3E-08	3.7E-08	8.2E-09	8.9E-08
6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	5.0E-08	4.3E-08	9.5E-09	1.0E-07
7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.0E-08	0.0E+00	0.0E+00	6.0E-08	5.1E-08	1.1E-08	1.2E-07
9.3E-08	2.8E-07	2.2E-07	1.9E-07	8.7E-08	0.0E+00	0.0E+00	7.4E-08	6.4E-08	1.4E-08	1.5E-07
1.2E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	9.8E-08	8.5E-08	1.9E-08	2.0E-07
1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	0.0E+00	0.0E+00	1.5E-07	1.3E-07	2.9E-08	3.1E-07
4.3E-07	1.3E-06	1.0E-06	8.8E-07	4.0E-07	0.0E+00	0.0E+00	3.4E-07	2.9E-07	6.4E-08	6.9E-07
2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	2.0E-08	1.7E-08	3.7E-09	4.0E-08
2.7E-08	8.0E-08	6.3E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	2.1E-08	1.8E-08	4.0E-09	4.3E-08
2.9E-08	8.7E-08	6.9E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	2.3E-08	2.0E-08	4.3E-09	4.7E-08
3.1E-08	9.3E-08	7.4E-08	6.4E-08	2.9E-08	0.0E+00	0.0E+00	2.4E-08	2.1E-08	4.6E-09	5.0E-08
3.4E-08	1.0E-07	8.0E-08	7.0E-08	3.1E-08	0.0E+00	0.0E+00	2.7E-08	2.3E-08	5.0E-09	5.5E-08
3.6E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.4E-09	5.9E-08
4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.9E-09	6.5E-08
4.5E-08	1.3E-07	1.1E-07	9.2E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.7E-09	7.2E-08
5.1E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	0.0E+00	0.0E+00	4.0E-08	3.4E-08	7.5E-09	8.2E-08
5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	4.6E-08	4.0E-08	8.7E-09	9.4E-08
6.8E-08	2.1E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	5.4E-08	4.6E-08	1.0E-08	1.1E-07
8.4E-08	2.5E-07	2.0E-07	1.7E-07	7.8E-08	0.0E+00	0.0E+00	6.6E-08	5.7E-08	1.3E-08	1.4E-07
1.1E-07	3.4E-07	2.6E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	8.7E-08	7.6E-08	1.7E-08	1.8E-07
1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	1.4E-07	1.2E-07	2.6E-08	2.8E-07
3.9E-07	1.2E-06	9.4E-07	8.1E-07	3.7E-07	0.0E+00	0.0E+00	3.1E-07	2.7E-07	5.9E-08	6.4E-07
2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	1.9E-08	1.6E-08	3.5E-09	3.8E-08
2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	0.0E+00	0.0E+00	2.0E-08	1.7E-08	3.7E-09	4.1E-08
2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	2.1E-08	1.8E-08	4.0E-09	4.4E-08
2.9E-08	8.8E-08	7.0E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	2.3E-08	2.0E-08	4.3E-09	4.7E-08
3.1E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	0.0E+00	0.0E+00	2.5E-08	2.1E-08	4.7E-09	5.1E-08
3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.3E-08	5.1E-09	5.5E-08
3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.5E-09	6.0E-08
4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.1E-09	6.7E-08
4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.9E-09	7.5E-08
5.2E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.1E-08	3.6E-08	7.8E-09	8.5E-08
6.1E-08	1.8E-07	1.4E-07	1.3E-07	5.6E-08	0.0E+00	0.0E+00	4.8E-08	4.1E-08	9.1E-09	9.8E-08
7.3E-08	2.2E-07	1.7E-07	1.5E-07	6.8E-08	0.0E+00	0.0E+00	5.8E-08	5.0E-08	1.1E-08	1.2E-07
9.4E-08	2.8E-07	2.2E-07	1.9E-07	8.7E-08	0.0E+00	0.0E+00	7.4E-08	6.4E-08	1.4E-08	1.5E-07
1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.1E-07	9.5E-08	2.1E-08	2.3E-07
3.2E-07	9.7E-07	7.7E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	2.5E-07	2.2E-07	4.8E-08	5.2E-07
3.9E-08	1.2E-07	9.3E-08	8.0E-08	3.6E-08	0.0E+00	0.0E+00	3.1E-08	2.6E-08	5.8E-09	6.3E-08
4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.9E-08	6.3E-09	6.8E-08
4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.9E-09	7.5E-08
5.1E-08	1.5E-07	1.2E-07	1.1E-07	4.7E-08	0.0E+00	0.0E+00	4.0E-08	3.5E-08	7.6E-09	8.3E-08
5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.5E-09	9.2E-08
6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	5.0E-08	4.3E-08	9.4E-09	1.0E-07
7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	5.6E-08	4.9E-08	1.1E-08	1.2E-07
8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	0.0E+00	0.0E+00	6.4E-08	5.6E-08	1.2E-08	1.3E-07
3.8E-08	1.1E-07	9.0E-08	7.8E-08	3.5E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.6E-09	6.1E-08
4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.1E-09	6.6E-08
4.5E-08	1.4E-07	1.1E-07	9.2E-08	4.2E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.7E-09	7.2E-08
4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	3.9E-08	3.4E-08	7.4E-09	8.0E-08
5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	4.3E-08	3.7E-08	8.2E-09	8.9E-08
6.1E-08	1.9E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	4.8E-08	4.2E-08	9.1E-09	9.9E-08
6.9E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	5.5E-08	4.7E-08	1.0E-08	1.1E-07
7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	0.0E+00	0.0E+00	6.2E-08	5.4E-08	1.2E-08	1.3E-07
3.6E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.4E-09	5.9E-08
4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.9E-09	6.4E-08
4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	2.9E-08	6.4E-09	7.0E-08
4.8E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.1E-09	7.7E-08
5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.2E-08	3.6E-08	7.9E-09	8.6E-08
5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	0.0E+00	0.0E+00	4.7E-08	4.0E-08	8.8E-09	9.6E-08

PHASE 1 OPERATIONAL

Mitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
161	UCART3	439496	3762392.48	439496.01, 3762392.48	2.55929	2.38998	0.00128	2.24526	4.24E-05	3.37E-06	3.20E-06	1.85E-04	2.34E-04
162	UCART3	439546	3762392.48	439546.01, 3762392.48	2.95141	2.72593	0.0015	2.54662	4.89E-05	3.84E-06	3.75E-06	2.09E-04	2.66E-04
163	UCART3	439196	3762442.48	439196.01, 3762442.48	1.33994	1.28755	0.00061	1.23529	2.22E-05	1.81E-06	1.52E-06	1.02E-04	1.27E-04
164	UCART3	439246	3762442.48	439246.01, 3762442.48	1.47134	1.40944	0.00068	1.34457	2.44E-05	1.99E-06	1.70E-06	1.11E-04	1.39E-04
165	UCART3	439296	3762442.48	439296.01, 3762442.48	1.62606	1.55185	0.00076	1.46832	2.69E-05	2.19E-06	1.90E-06	1.21E-04	1.52E-04
166	UCART3	439346	3762442.48	439346.01, 3762442.48	1.80746	1.71743	0.00086	1.61404	2.99E-05	2.42E-06	2.15E-06	1.33E-04	1.67E-04
167	UCART3	439396	3762442.48	439396.01, 3762442.48	2.02414	1.91308	0.00099	1.78493	3.35E-05	2.70E-06	2.47E-06	1.47E-04	1.86E-04
168	UCART3	439446	3762442.48	439446.01, 3762442.48	2.28665	2.14692	0.00114	1.98796	3.79E-05	3.03E-06	2.85E-06	1.64E-04	2.07E-04
169	UCART3	439496	3762442.48	439496.01, 3762442.48	2.60867	2.42888	0.00132	2.23329	4.32E-05	3.42E-06	3.30E-06	1.84E-04	2.34E-04
170	UCART3	439546	3762442.48	439546.01, 3762442.48	3.01187	2.77402	0.00156	2.53566	4.99E-05	3.91E-06	3.90E-06	2.09E-04	2.66E-04
171	UCART3	439196	3762492.48	439196.01, 3762492.48	1.34559	1.29052	0.00061	1.22889	2.23E-05	1.82E-06	1.52E-06	1.01E-04	1.27E-04
172	UCART3	439246	3762492.48	439246.01, 3762492.48	1.47792	1.41306	0.00068	1.33921	2.45E-05	1.99E-06	1.70E-06	1.10E-04	1.38E-04
173	UCART3	439296	3762492.48	439296.01, 3762492.48	1.63383	1.55635	0.00077	1.46282	2.71E-05	2.19E-06	1.92E-06	1.20E-04	1.52E-04
174	UCART3	439346	3762492.48	439346.01, 3762492.48	1.81796	1.72423	0.00088	1.60626	3.01E-05	2.43E-06	2.20E-06	1.32E-04	1.67E-04
175	UCART3	439396	3762492.48	439396.01, 3762492.48	2.03684	1.92189	0.001	1.77684	3.37E-05	2.71E-06	2.50E-06	1.46E-04	1.85E-04
176	UCART3	439446	3762492.48	439446.01, 3762492.48	2.3016	2.15811	0.00116	1.97963	3.81E-05	3.04E-06	2.90E-06	1.63E-04	2.07E-04
177	UCART3	439496	3762492.48	439496.01, 3762492.48	2.62927	2.44605	0.00135	2.22201	4.36E-05	3.45E-06	3.37E-06	1.83E-04	2.33E-04
178	UCART3	439546	3762492.48	439546.01, 3762492.48	3.03793	2.79835	0.00159	2.52142	5.03E-05	3.94E-06	3.97E-06	2.07E-04	2.66E-04
179	UCART3	439196	3762542.48	439196.01, 3762542.48	1.34539	1.28838	0.0006	1.22045	2.23E-05	1.82E-06	1.50E-06	1.00E-04	1.26E-04
180	UCART3	439246	3762542.48	439246.01, 3762542.48	1.47739	1.41052	0.00068	1.33053	2.45E-05	1.99E-06	1.70E-06	1.09E-04	1.38E-04
181	UCART3	439296	3762542.48	439296.01, 3762542.48	1.63281	1.55341	0.00077	1.45514	2.70E-05	2.19E-06	1.92E-06	1.20E-04	1.51E-04
182	UCART3	439346	3762542.48	439346.01, 3762542.48	1.81571	1.72037	0.00088	1.60016	3.01E-05	2.42E-06	2.20E-06	1.32E-04	1.66E-04
183	UCART3	439396	3762542.48	439396.01, 3762542.48	2.03481	1.91872	0.001	1.76847	3.37E-05	2.70E-06	2.50E-06	1.45E-04	1.84E-04
184	UCART3	439446	3762542.48	439446.01, 3762542.48	2.29896	2.15551	0.00116	1.97085	3.81E-05	3.04E-06	2.90E-06	1.62E-04	2.06E-04
185	UCART3	439496	3762542.48	439496.01, 3762542.48	2.62506	2.44441	0.00136	2.20852	4.35E-05	3.45E-06	3.40E-06	1.82E-04	2.32E-04
186	UCART3	439546	3762542.48	439546.01, 3762542.48	3.0287	2.79692	0.0016	2.51049	5.02E-05	3.94E-06	4.00E-06	2.07E-04	2.65E-04
187	UCART3	439196	3762592.48	439196.01, 3762592.48	1.33911	1.28106	0.00059	1.21007	2.22E-05	1.81E-06	1.47E-06	9.95E-05	1.25E-04
188	UCART3	439246	3762592.48	439246.01, 3762592.48	1.47099	1.40309	0.00067	1.31601	2.44E-05	1.98E-06	1.67E-06	1.08E-04	1.36E-04
189	UCART3	439296	3762592.48	439296.01, 3762592.48	1.62429	1.54425	0.00076	1.44164	2.69E-05	2.18E-06	1.90E-06	1.19E-04	1.50E-04
190	UCART3	439346	3762592.48	439346.01, 3762592.48	1.80442	1.70919	0.00086	1.58786	2.99E-05	2.41E-06	2.15E-06	1.31E-04	1.65E-04
191	UCART3	439396	3762592.48	439396.01, 3762592.48	2.01931	1.90467	0.00099	1.7576	3.34E-05	2.68E-06	2.47E-06	1.45E-04	1.83E-04
192	UCART3	439446	3762592.48	439446.01, 3762592.48	2.27916	2.13936	0.00114	1.95767	3.78E-05	3.02E-06	2.85E-06	1.61E-04	2.05E-04
193	UCART3	439496	3762592.48	439496.01, 3762592.48	2.59868	2.4257	0.00134	2.19496	4.30E-05	3.42E-06	3.35E-06	1.81E-04	2.30E-04
194	UCART3	439546	3762592.48	439546.01, 3762592.48	2.99165	2.77491	0.00157	2.49719	4.96E-05	3.91E-06	3.92E-06	2.05E-04	2.63E-04
195	UCART3	439196	3762642.48	439196.01, 3762642.48	1.32692	1.26871	0.00058	1.19635	2.20E-05	1.79E-06	1.45E-06	9.84E-05	1.24E-04
196	UCART3	439246	3762642.48	439246.01, 3762642.48	1.45644	1.38873	0.00065	1.29738	2.41E-05	1.96E-06	1.62E-06	1.07E-04	1.34E-04
197	UCART3	439296	3762642.48	439296.01, 3762642.48	1.6058	1.5267	0.00073	1.42961	2.66E-05	2.15E-06	1.82E-06	1.18E-04	1.48E-04
198	UCART3	439346	3762642.48	439346.01, 3762642.48	1.78111	1.68792	0.00083	1.57669	2.95E-05	2.38E-06	2.07E-06	1.30E-04	1.64E-04
199	UCART3	439396	3762642.48	439396.01, 3762642.48	1.99106	1.88007	0.00095	1.74398	3.30E-05	2.65E-06	2.37E-06	1.43E-04	1.81E-04
200	UCART3	439446	3762642.48	439446.01, 3762642.48	2.24331	2.10996	0.0011	1.94357	3.72E-05	2.97E-06	2.75E-06	1.60E-04	2.03E-04
201	UCART3	439496	3762642.48	439496.01, 3762642.48	2.55164	2.38982	0.00128	2.17452	4.23E-05	3.37E-06	3.20E-06	1.79E-04	2.28E-04
202	UCART3	439546	3762642.48	439546.01, 3762642.48	2.92905	2.73138	0.00151	2.47319	4.85E-05	3.85E-06	3.77E-06	2.03E-04	2.60E-04
203	UCART3	439196	3762692.48	439196.01, 3762692.48	1.30894	1.25138	0.00055	1.17592	2.17E-05	1.76E-06	1.37E-06	9.67E-05	1.22E-04
204	UCART3	439246	3762692.48	439246.01, 3762692.48	1.43452	1.36804	0.00062	1.28105	2.38E-05	1.93E-06	1.55E-06	1.05E-04	1.33E-04
205	UCART3	439296	3762692.48	439296.01, 3762692.48	1.58059	1.50333	0.00069	1.40085	2.62E-05	2.12E-06	1.72E-06	1.15E-04	1.45E-04
206	UCART3	439346	3762692.48	439346.01, 3762692.48	1.7511	1.66082	0.00079	1.54598	2.90E-05	2.34E-06	1.97E-06	1.27E-04	1.60E-04
207	UCART3	439396	3762692.48	439396.01, 3762692.48	1.95146	1.84546	0.0009	1.7256	3.23E-05	2.60E-06	2.25E-06	1.42E-04	1.79E-04
208	UCART3	439446	3762692.48	439446.01, 3762692.48	2.19291	2.06742	0.00104	1.92099	3.63E-05	2.91E-06	2.60E-06	1.58E-04	2.00E-04
209	UCART3	439496	3762692.48	439496.01, 3762692.48	2.48654	2.3371	0.0012	2.15196	4.12E-05	3.29E-06	3.00E-06	1.77E-04	2.24E-04
210	UCART3	439546	3762692.48	439546.01, 3762692.48	2.84401	2.66587	0.00141	2.44952	4.71E-05	3.76E-06	3.52E-06	2.01E-04	2.56E-04
211	UCART3	439196	3762742.48	439196.01, 3762742.48	1.2856	1.22928	0.00052	1.15577	2.13E-05	1.73E-06	1.30E-06	9.51E-05	1.19E-04
212	UCART3	439246	3762742.48	439246.01, 3762742.48	1.40622	1.34163	0.00058	1.26295	2.33E-05	1.89E-06	1.45E-06	1.04E-04	1.31E-04
213	UCART3	439296	3762742.48	439296.01, 3762742.48	1.54647	1.47192	0.00065	1.3806	2.56E-05	2.07E-06	1.62E-06	1.14E-04	1.43E-04
214	UCART3	439346	3762742.48	439346.01, 3762742.48	1.70953	1.62314	0.00074	1.52332	2.83E-05	2.29E-06	1.85E-06	1.25E-04	1.58E-04
215	UCART3	439396	3762742.48	439396.01, 3762742.48	1.90147	1.80093	0.00083	1.69013	3.15E-05	2.54E-06	2.07E-06	1.39E-04	1.75E-04
216	UCART3	439446	3762742.48	439446.01, 3762742.48	2.12978	2.01235	0.00096	1.88828	3.53E-05	2.84E-06	2.40E-06	1.55E-04	1.96E-04
217	UCART3	439496	3762742.48	439496.01, 3762742.48	2.40565	2.26823	0.0011	2.11844	3.98E-05	3.20E-06	2.75E-06	1.74E-04	2.20E-04
218	UCART3	439546	3762742.48	439546.01, 3762742.48	2.7394	2.57912	0.00129	2.41973	4.54E-05	3.64E-06	3.22E-06	1.99E-04	2.51E-04
219	UCART3	439196	3762792.48	439196.01, 3762792.48	1.25743	1.20272	0.00049	1.13092	2.08E-05	1.70E-06	1.22E-06	9.30E-05	1.17E-04
220	UCART3	439246	3762792.48	439246.01, 3762792.48	1.37242	1.31003	0.00054	1.2439	2.27E-05	1.85E-06	1.35E-06	1.02E-04	1.28E-04
221	UCART3	439296	3762792.48	439296.01, 3762792.48	1.50592	1.43436	0.00061	1.3564	2.49E-05	2.02E-06	1.52E-06	1.12E-04	1.40E-04
222	UCART3	439346	3762792.48	439346.01, 3762792.48	1.66061	1.57827	0.00068	1.49374	2.75E-05	2.22E-06	1.70E-06	1.23E-04	1.54E-04
223	UCART3	439396	3762792.48	439396.01, 3762792.48	1.84153	1.74656	0.00076	1.65745	3.05E-05	2.46E-06	1.90E-06	1.36E-04	1.71E-04
224	UCART3	439446	3762792.48	439446.01, 3762792.48	2.05484	1.94518	0.00087	1.856	3.40E-05	2.74E-06	2.17E-06	1.53E-04	1.92E-04
225	UCART3	439496	3762792.48	439496.01, 3762792.48	2.30977	2.18413	0.001	2.08834	3.83E-05	3.08E-06	2.50E-06	1.72E-04	2.16E-04
226	UCART3	439546	3762792.48	439546.01, 3762792.48	2.6138	2.47329	0.00116	2.38858	4.33E-05	3.49E-06	2.90E-06	1.96E-04	2.46E-04
227	UCART3	439196	3762842.48	439196.01, 3762842.48	1.22223	1.17232	0.00046	1.10975	2.02E-05	1.65E-06	1.15E-06	9.13E-05	1.14E-04
228	UCART3	439246	3762842.48	439246.01, 3762842.48	1.33444	1.27434	0.00051	1.21663	2.21E-05	1.80E-06	1.27E-06	1.00E-04	1.25E-04
229	UCART3	439296	3762842.48	439296.01, 3762842.48	1.45995	1.39144	0.00056	1.33325	2.42E-05	1.96E-06	1.40E-06	1.10E-04	1.37E-04
230	UCART3	439346	3762842.48	439346.01, 3762842.48	1.60487	1.52659	0.00062	1.46952	2.66E-05	2.15E-06	1.55E-06	1.21E-04	1.51E-04
231	UCART3	439396	3762842.48	439396.01, 3762842.48	1.77293	1.68398	0.00069	1.6281	2.94E-05	2.37E-06	1.72E-06	1.34E-04	1.67E-04
232	UCART3	439446	3762842.48	439446.01, 3762842.48	1.97043	1.86866	0.00078	1.82259	3.26E-05	2.63E-06	1.95E-06	1.50E-04	1.87E-04
233	UCART3	439496	3762842.48	439496.01, 3762842.48	2.19867	2.084	0.00089	2.05569	3.64E-05	2.94E-06	2.22E-06	1.69E-04	2.11E-04
234	UCART3	439546	3762842.48	439546.01, 3762842.48	2.47598	2.32822	0.00102	2.35154	4.10E-05	3.28E-06	2.55E-06	1.93E-04	2.40E-04
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	3.29602	3.01387	0.00173	2.72813	5.46E-05	4.25E-06	4.32E-06	2.24E-04	2.88E-04
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	3.90251	3.51074	0.00209	3.16517	6.46E-05	4.95E-06	5.22E-06	2.60E-04	3.35E-04
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	4.7151	4.14705	0.00256	3.7634	7.81E-05	5.84E-06	6.39E-06	3.10E-04	4.00E-04
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	5.85377	4.98288	0.00324	4.62578	9.70E-05	7.02E-06	8.09E-06	3.81E-04	4.93E-04
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	7.56054	6.12415	0.00426	6.03202	1.25E-04	8.63E-06	1.06E-05	4.96E-04	6.41E-04
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	10.36298	7.76552	0.00593	8.86081	1.72E-04	1.09E-05	1.48E-05	7.29E-04	9.26E-04

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
161	UCART3	8.1E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	6.4E-08	5.5E-08	1.2E-08	1.3E-07
162	UCART3	9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	0.0E+00	0.0E+00	7.2E-08	6.3E-08	1.4E-08	1.5E-07
163	UCART3	4.4E-08	1.3E-07	1.0E-07	9.1E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.6E-09	7.1E-08
164	UCART3	4.8E-08	1.4E-07	1.1E-07	9.9E-08	4.5E-08	0.0E+00	0.0E+00	3.8E-08	3.3E-08	7.2E-09	7.8E-08
165	UCART3	5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.1E-08	3.6E-08	7.8E-09	8.5E-08
166	UCART3	5.8E-08	1.7E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	4.6E-08	3.9E-08	8.6E-09	9.4E-08
167	UCART3	6.4E-08	1.9E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	5.1E-08	4.4E-08	9.6E-09	1.0E-07
168	UCART3	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	0.0E+00	0.0E+00	5.6E-08	4.9E-08	1.1E-08	1.2E-07
169	UCART3	8.1E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	6.4E-08	5.5E-08	1.2E-08	1.3E-07
170	UCART3	9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.6E-08	0.0E+00	0.0E+00	7.3E-08	6.3E-08	1.4E-08	1.5E-07
171	UCART3	4.4E-08	1.3E-07	1.0E-07	9.1E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.5E-09	7.1E-08
172	UCART3	4.8E-08	1.4E-07	1.1E-07	9.9E-08	4.4E-08	0.0E+00	0.0E+00	3.8E-08	3.3E-08	7.1E-09	7.7E-08
173	UCART3	5.2E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.1E-08	3.6E-08	7.8E-09	8.5E-08
174	UCART3	5.8E-08	1.7E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.6E-09	9.3E-08
175	UCART3	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	5.0E-08	4.4E-08	9.5E-09	1.0E-07
176	UCART3	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	5.6E-08	4.9E-08	1.1E-08	1.2E-07
177	UCART3	8.1E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	6.4E-08	5.5E-08	1.2E-08	1.3E-07
178	UCART3	9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	0.0E+00	0.0E+00	7.2E-08	6.3E-08	1.4E-08	1.5E-07
179	UCART3	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	3.0E-08	6.5E-09	7.1E-08
180	UCART3	4.8E-08	1.4E-07	1.1E-07	9.8E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.1E-09	7.7E-08
181	UCART3	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.1E-08	3.6E-08	7.8E-09	8.4E-08
182	UCART3	5.8E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.6E-09	9.3E-08
183	UCART3	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	5.0E-08	4.3E-08	9.5E-09	1.0E-07
184	UCART3	7.1E-08	2.2E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	5.6E-08	4.9E-08	1.1E-08	1.2E-07
185	UCART3	8.0E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	6.3E-08	5.5E-08	1.2E-08	1.3E-07
186	UCART3	9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	0.0E+00	0.0E+00	7.2E-08	6.2E-08	1.4E-08	1.5E-07
187	UCART3	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	2.9E-08	6.4E-09	7.0E-08
188	UCART3	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.0E-09	7.6E-08
189	UCART3	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.1E-08	3.5E-08	7.7E-09	8.4E-08
190	UCART3	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.5E-09	9.2E-08
191	UCART3	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	5.0E-08	4.3E-08	9.5E-09	1.0E-07
192	UCART3	7.1E-08	2.1E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	5.6E-08	4.8E-08	1.1E-08	1.1E-07
193	UCART3	8.0E-08	2.4E-07	1.9E-07	1.6E-07	7.4E-08	0.0E+00	0.0E+00	6.3E-08	5.4E-08	1.2E-08	1.3E-07
194	UCART3	9.1E-08	2.7E-07	2.2E-07	1.9E-07	8.4E-08	0.0E+00	0.0E+00	7.2E-08	6.2E-08	1.4E-08	1.5E-07
195	UCART3	4.3E-08	1.3E-07	1.0E-07	8.8E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	2.9E-08	6.4E-09	6.9E-08
196	UCART3	4.7E-08	1.4E-07	1.1E-07	9.6E-08	4.3E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	6.9E-09	7.5E-08
197	UCART3	5.1E-08	1.5E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.0E-08	3.5E-08	7.6E-09	8.3E-08
198	UCART3	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.4E-09	9.2E-08
199	UCART3	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	4.9E-08	4.3E-08	9.4E-09	1.0E-07
200	UCART3	7.0E-08	2.1E-07	1.7E-07	1.4E-07	6.5E-08	0.0E+00	0.0E+00	5.5E-08	4.8E-08	1.0E-08	1.1E-07
201	UCART3	7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	0.0E+00	0.0E+00	6.2E-08	5.4E-08	1.2E-08	1.3E-07
202	UCART3	9.0E-08	2.7E-07	2.1E-07	1.9E-07	8.3E-08	0.0E+00	0.0E+00	7.1E-08	6.1E-08	1.3E-08	1.5E-07
203	UCART3	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.9E-08	6.3E-09	6.8E-08
204	UCART3	4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.8E-09	7.4E-08
205	UCART3	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	0.0E+00	0.0E+00	4.0E-08	3.4E-08	7.5E-09	8.1E-08
206	UCART3	5.6E-08	1.7E-07	1.3E-07	1.1E-07	5.2E-08	0.0E+00	0.0E+00	4.4E-08	3.8E-08	8.3E-09	9.0E-08
207	UCART3	6.2E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	4.9E-08	4.2E-08	9.2E-09	1.0E-07
208	UCART3	6.9E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	5.4E-08	4.7E-08	1.0E-08	1.1E-07
209	UCART3	7.8E-08	2.3E-07	1.9E-07	1.6E-07	7.2E-08	0.0E+00	0.0E+00	6.1E-08	5.3E-08	1.2E-08	1.3E-07
210	UCART3	8.9E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	0.0E+00	0.0E+00	7.0E-08	6.0E-08	1.3E-08	1.4E-07
211	UCART3	4.1E-08	1.2E-07	9.9E-08	8.5E-08	3.8E-08	0.0E+00	0.0E+00	3.3E-08	2.8E-08	6.2E-09	6.7E-08
212	UCART3	4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.7E-09	7.3E-08
213	UCART3	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	3.9E-08	3.4E-08	7.4E-09	8.0E-08
214	UCART3	5.5E-08	1.6E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	4.3E-08	3.7E-08	8.1E-09	8.8E-08
215	UCART3	6.1E-08	1.8E-07	1.4E-07	1.3E-07	5.6E-08	0.0E+00	0.0E+00	4.8E-08	4.1E-08	9.0E-09	9.8E-08
216	UCART3	6.8E-08	2.0E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	5.3E-08	4.6E-08	1.0E-08	1.1E-07
217	UCART3	7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	0.0E+00	0.0E+00	6.0E-08	5.2E-08	1.1E-08	1.2E-07
218	UCART3	8.7E-08	2.6E-07	2.1E-07	1.8E-07	8.1E-08	0.0E+00	0.0E+00	6.8E-08	5.9E-08	1.3E-08	1.4E-07
219	UCART3	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.0E-09	6.5E-08
220	UCART3	4.4E-08	1.3E-07	1.1E-07	9.2E-08	4.

PHASE 1 OPERATIONAL

Mitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	15.50182	10.4235	0.00902	14.69801	2.57E-04	1.47E-05	2.25E-05	1.21E-03	1.50E-03	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.8E-07	0.0E+00	0.0E+00	4.1E-07	3.5E-07	7.8E-08	8.4E-07
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	3.30072	3.02598	0.00176	2.71564	5.47E-05	4.26E-06	4.39E-06	2.23E-04	2.87E-04	9.9E-08	3.0E-07	2.4E-07	2.0E-07	9.2E-08	0.0E+00	0.0E+00	7.8E-08	6.8E-08	1.5E-08	1.6E-07
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	3.89831	3.52664	0.00211	3.1555	6.46E-05	4.97E-06	5.27E-06	2.60E-04	3.34E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	9.1E-08	7.9E-08	1.7E-08	1.9E-07
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	4.6926	4.1714	0.00257	3.75148	7.77E-05	5.88E-06	6.42E-06	3.09E-04	3.99E-04	1.4E-07	4.2E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.1E-07	9.4E-08	2.1E-08	2.2E-07
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	5.78314	5.01996	0.0032	4.61683	9.58E-05	7.08E-06	7.99E-06	3.80E-04	4.91E-04	1.7E-07	5.1E-07	4.1E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	1.3E-07	1.2E-07	2.5E-08	2.7E-07
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	7.34859	6.16948	0.0041	6.02354	1.22E-04	8.70E-06	1.02E-05	4.95E-04	6.36E-04	2.2E-07	6.6E-07	5.3E-07	4.5E-07	2.0E-07	0.0E+00	0.0E+00	1.7E-07	1.5E-07	3.3E-08	3.6E-07
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	9.75147	7.79284	0.00548	8.85378	1.62E-04	1.10E-05	1.37E-05	7.28E-04	9.14E-04	3.2E-07	9.6E-07	7.6E-07	6.5E-07	2.9E-07	0.0E+00	0.0E+00	2.5E-07	2.2E-07	4.7E-08	5.1E-07
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	14.24491	10.32639	0.00774	14.68127	2.36E-04	1.46E-05	1.93E-05	1.21E-03	1.48E-03	5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.7E-07	0.0E+00	0.0E+00	4.0E-07	3.5E-07	7.6E-08	8.3E-07
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	3.26976	3.01287	0.00175	2.70376	5.42E-05	4.25E-06	4.37E-06	2.22E-04	2.85E-04	9.9E-08	3.0E-07	2.4E-07	2.0E-07	9.2E-08	0.0E+00	0.0E+00	7.8E-08	6.7E-08	1.5E-08	1.6E-07
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	3.84908	3.5132	0.0021	3.14493	6.38E-05	4.95E-06	5.24E-06	2.59E-04	3.33E-04	1.2E-07	3.5E-07	2.7E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	9.1E-08	7.8E-08	1.7E-08	1.9E-07
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	4.60793	4.15846	0.00255	3.73098	7.63E-05	5.86E-06	6.37E-06	3.07E-04	3.95E-04	1.4E-07	4.1E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.1E-07	9.3E-08	2.0E-08	2.2E-07
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	5.62564	5.00829	0.00315	4.60023	9.32E-05	7.06E-06	7.87E-06	3.78E-04	4.87E-04	1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	1.3E-07	1.1E-07	2.5E-08	2.7E-07
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	7.03667	6.16269	0.00399	6.01436	1.17E-04	8.69E-06	9.96E-06	4.95E-04	6.30E-04	2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	0.0E+00	0.0E+00	1.7E-07	1.5E-07	3.2E-08	3.5E-07
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	9.08797	7.79543	0.00526	8.85979	1.51E-04	1.10E-05	1.31E-05	7.29E-04	9.03E-04	3.1E-07	9.4E-07	7.5E-07	6.5E-07	2.9E-07	0.0E+00	0.0E+00	2.5E-07	2.1E-07	4.7E-08	5.1E-07
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	12.4076	10.2957	0.00733	14.40428	2.06E-04	1.45E-05	1.83E-05	1.18E-03	1.42E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	0.0E+00	0.0E+00	3.9E-07	3.4E-07	7.3E-08	8.0E-07
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	3.20828	2.97577	0.0017	2.68466	5.31E-05	4.19E-06	4.25E-06	2.21E-04	2.82E-04	9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	0.0E+00	0.0E+00	7.7E-08	6.7E-08	1.5E-08	1.6E-07
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	3.76079	3.46871	0.00204	3.11986	6.23E-05	4.89E-06	5.09E-06	2.57E-04	3.29E-04	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.1E-07	0.0E+00	0.0E+00	9.0E-08	7.8E-08	1.7E-08	1.8E-07
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	4.47402	4.10436	0.00248	3.72276	7.41E-05	5.78E-06	6.19E-06	3.06E-04	3.92E-04	1.4E-07	4.1E-07	3.2E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.1E-07	9.2E-08	2.0E-08	2.2E-07
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	5.41764	4.94887	0.00309	4.5936	8.97E-05	6.97E-06	7.72E-06	3.78E-04	4.82E-04	1.7E-07	5.0E-07	4.0E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	1.3E-07	1.1E-07	2.5E-08	2.7E-07
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	6.69295	6.10438	0.00396	6.0156	1.11E-04	8.60E-06	9.89E-06	4.95E-04	6.24E-04	2.2E-07	6.5E-07	5.2E-07	4.5E-07	2.0E-07	0.0E+00	0.0E+00	1.7E-07	1.5E-07	3.2E-08	3.5E-07
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	8.47621	7.76959	0.00535	8.87258	1.40E-04	1.10E-05	1.34E-05	7.30E-04	8.95E-04	3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	0.0E+00	0.0E+00	2.4E-07	2.1E-07	4.6E-08	5.0E-07
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	11.06304	10.38143	0.00792	14.26389	1.83E-04	1.46E-05	1.98E-05	1.17E-03	1.39E-03	4.8E-07	1.5E-06	1.1E-06	9.9E-07	4.5E-07	0.0E+00	0.0E+00	3.8E-07	3.3E-07	7.2E-08	7.8E-07
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	3.11987	2.91311	0.00161	2.66015	5.17E-05	4.11E-06	4.02E-06	2.19E-04	2.79E-04	9.6E-08	2.9E-07	2.3E-07	2.0E-07	9.0E-08	0.0E+00	0.0E+00	7.6E-08	6.6E-08	1.4E-08	1.6E-07
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	3.64225	3.3931	0.00193	3.09258	6.03E-05	4.78E-06	4.82E-06	2.54E-04	3.24E-04	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	8.8E-08	7.6E-08	1.7E-08	1.8E-07
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	4.30721	4.01008	0.00236	3.70197	7.13E-05	5.65E-06	5.89E-06	3.05E-04	3.87E-04	1.3E-07	4.0E-07	3.2E-07	2.8E-07	1.2E-07	0.0E+00	0.0E+00	1.1E-07	9.1E-08	2.0E-08	2.2E-07
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	5.17851	4.83482	0.00297	4.58724	8.58E-05	6.81E-06	7.42E-06	3.77E-04	4.77E-04	1.7E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	1.3E-07	1.1E-07	2.5E-08	2.7E-07
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	6.3535	5.98708	0.00389	6.02182	1.05E-04	8.44E-06	9.71E-06	4.95E-04	6.19E-04	2.1E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	0.0E+00	0.0E+00	1.7E-07	1.5E-07	3.2E-08	3.5E-07
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	7.98706	7.68303	0.00541	8.92585	1.32E-04	1.08E-05	1.35E-05	7.34E-04	8.91E-04	3.1E-07	9.3E-07	7.4E-07	6.4E-07	2.9E-07	0.0E+00	0.0E+00	2.4E-07	2.1E-07	4.6E-08	5.0E-07
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	10.36994	10.40293	0.00826	14.2807	1.72E-04	1.47E-05	2.06E-05	1.17E-03	1.38E-03	4.8E-07	1.4E-06	1.1E-06	9.9E-07	4.4E-07	0.0E+00	0.0E+00	3.8E-07	3.3E-07	7.1E-08	7.7E-07
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	0.63999	0.65282	0.00016	0.85099	1.06E-05	9.20E-07	4.00E-07	7.00E-05	8.19E-05	2.8E-08	8.6E-08	6.8E-08	5.9E-08	2.6E-08	0.0E+00	0.0E+00	2.2E-08	1.9E-08	4.2E-09	4.6E-08
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	0.66072	0.67586	0.00018	0.90562	1.09E-05	9.53E-07	4.49E-07	7.45E-05	8.68E-05	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	0.0E+00	0.0E+00	2.4E-08	2.0E-08	4.5E-09	4.9E-08
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	0.68329	0.70098	0.00019	0.96903	1.13E-05	9.88E-07	4.74E-07	7.97E-05	9.25E-05	3.2E-08	9.7E-08	7.6E-08	6.6E-08	3.0E-08	0.0E+00	0.0E+00	2.5E-08	2.2E-08	4.8E-09	5.2E-08
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	0.70617	0.72662	0.00021	1.04087	1.17E-05	1.02E-06	5.24E-07	8.56E-05	9.89E-05	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.3E-08	5.1E-09	5.5E-08
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	0.72953	0.75295	0.00023	1.12339	1.21E-05	1.06E-06	5.74E-07	9.24E-05	1.06E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.5E-09	5.9E-08
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	0.7532	0.77977	0.00025	1.21913	1.25E-05	1.10E-06	6.24E-07	1.00E-04	1.14E-04	4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.9E-09	6.4E-08
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	0.77689	0.8068	0.00028	1.3315	1.29E-05	1.14E-06	6.99E-07	1.10E-04	1.24E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	2.9E-08	6.4E-09	7.0E-08
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	0.80175	0.83526	0.0003	1.46866	1.33E-05	1.18E-06	7.49E-07	1.21E-04	1.36E-04	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.0E-09	7.6E-08
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	0.82524	0.86253	0.00031	1.63437	1.37E-05	1.22E-06	7.74E-07	1.34E-04	1.50E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.1E-08	3.5E-08	7.7E-09	8.4E-08
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	0.67015	0.68238	0.00017	0.88221	1.11E-05	9.62E-07	4.25E-07	7.26E-05	8.51E-05	2.9E-08	8.9E-08	7.0E-08	6.1E-08	2.7E-08	0.0E+00	0.0E+00	2.3E-08	2.0E-08	4.4E-09	4.8E-08
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	0.69491	0.70964	0.00018	0.94299	1.15E-05	1.00E-06	4.49E-07	7.76E-05	9.05E-05	3.1E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	0.0E+00	0.0E+00	2.5E-08	2.1E-08	4.7E-09	5.1E-08
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	0.72147	0.73903	0.0002	1.01332	1.20E-05	1.04E-06	4.99E-07	8.34E-05	9.68E-05	3.4E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	0.0E+00	0.0E+00	2.6E-08	2.3E-08	5.0E-09	5.4E-08
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	0.74576	0.76644	0.00022	1.08989	1.24E-05	1.08E-06	5.49E-07	8.97E-05	1.04E-04	3.6E-08	1.1E-07	8.6E-08	7.4E-08	3.3E-08	0.0E+00	0.0E+00	2.8E-08	2.4E-08	5.3E-09	5.8E-08
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	0.77104	0.79511	0.00024	1.17899	1.28E-05	1.12E-06	5.99E-07	9.70E-05	1.11E-04	3.9E-08	1.2E-07	9.2E-08	8.0E-08	3.6E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.8E-09	6.2E-08
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	0.79696	0.82469	0.00026	1.28353	1.32E-05	1.16E-06	6.49E-07	1.06E-04	1.21E-04	4.2E-08	1.3E-07	1.0E-07	8.6E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.8E-08	6.2E-09	6.8E-08
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	0.82319	0.85482	0.00029	1.40776	1.36E-05	1.20E-06	7.24E-07	1.16E-04	1.31E-04	4.5E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.8E-09	7.4E-08
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	0.85163	0.88752	0.00031	1.56288	1.41E-05	1.25E-06	7.74E-07	1.29E-04	1.45E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	3.9E-08	3.4E-08	7.5E-09	8.1E-08
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	0.87894	0.91935	0.00033	1.75379	1.46E-05	1.30E-06	8.24E-07	1.44E-04	1.61E-04	5.6E-08	1.7E-07	1.3E-07	1.1E-07	5.2E-08	0.0E+00	0.0E+00	4.4E-08	3.8E-08	8.3E-09	9.0E-08
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	0.7016	0.71296	0.00017	0.91256	1.16E-05	1.00E-06	4.25E-07	7.51E-05	8.81E-05	3.1E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	2.4E-08	2.1E-08	4.5E-09	4.9E-08
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	0.72908	0.74306	0.00019	0.97726	1.21E-05	1.05E-06	4.74E-07	8.04E-05	9.40E-05	3.3E-08	9.8E-08	7.8E-08	6.7E-08	3.0E-08	0.0E+00	0.0E+00	2.6E-08	2.2E-08	4.8E-09	5.3E-08
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	0.75811	0.77515	0.0002	1.05178	1.26E-05	1.09E-06	4.99E-07	8.65E-05	1.01E-04	3.5E-08	1.1E-07	8.3E-08	7.2E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.4E-08	5.2E-09	5.6E-08
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	0.78569	0.80617	0.00022	1.13446	1.30E-05	1.14E-06	5.49E-07	9.33E-05	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.6E-09	6.0E-08
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	0.81355	0.83787	0.00024	1.22984	1.35E-05	1.18E-06	5.99E-07	1.01E-04	1.16E-04	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	0.0E+00	0.0E+00	3.2E-08	2.7E-08	6.0E-09	6.5E-08
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	0.84379	0.87237	0.00027	1.34505	1.40E-05	1.23E-06	6.74E-07	1.11E-04	1.27E-04	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.1E-08	0.0E+00	0.0E+00	3.4E-08	3.0E-08	6.5E-09	7.1E-08
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	0.87423	0.90742	0.0003	1.48247	1.45E-05	1.28E-06	7.49E-07	1.22E-04	1.38E-04	4.8E-08	1.4E-07	1.1E-07	9.9E-08	4.4E-08	0.0E+00	0.0E+00	3.8E-08	3.3E-08	7.1E-09	7.8E-08
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	0.90533	0.94351	0.00033	1.6513	1.50E-05	1.33E-06	8.24E-07	1.36E-04	1.53E-04	5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.2E-08	3.6E-08	7.9E-09	8.6E-08
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	0.93733	0.98095	0.00035	1.86569	1.55E-05	1.38E-06	8.74E-07	1.53E-04	1.71E-04	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	0.0E+00	0.0E+00	4.7E-08	4.0E-08	8.8E-09	9.6E-08
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	0.73421	0.7444	0.00018	0.94178	1.22E-05	1.05E-06	4.49E-07	7.75E-05	9.11E-05	3.2E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	0.0E+00	0.0E+00	2.5E-08	2.1E-08	4.7E-09	5.1E-08
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	0.7643	0.7772	0.00019	1.00969	1.27E-05	1.10E-06	4.74E-07	8.31E-05	9.73E-05	3.4E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	0.0E+00	0.0E+00	2.7E-08	2.3E-08	5.0E-09	5.4E-08
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	0.79663	0.81273	0.00021	1.08859	1.32E-05	1.15E-06	5.24E-07	8.95E-05	1.04E-04	3.6E-08	1.1E-07	8.6E-08	7.5E-08	3.4E-08	0.0E+00	0.0E+00	2.8E-08	2.5E-08	5.4E-09	5.8E-08
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	0.82923	0.84908	0.00023	1.17864	1.37E-05	1.20E-06	5.74E-07	9.70E-05	1.12E-04	3.9E-08	1.2E-07	9.3E-08	8.0E-08	3.6E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.8E-09	6.3E-08
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	0.86092	0.88505	0.00025	1.28106	1.43E-05	1.25E-06	6.24E-07	1.05E-04	1.22E-04	4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.9E-08	6.3E-09	6.8E-08
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	0.89579	0.9248	0.00028	1.40589	1.48E-05	1.30E-06	6.99E-07	1.16E-04	1.32E-04	4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.8E-09	7.4E-08
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	0.93143	0.96587	0.00031	1.55621	1.54E-05	1.36E-06	7.74E-07	1.28E-04	1.46E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	0.0E+00	0.0E+00	4.0E-08	3.4E-08	7.5E-09	8.1E-08
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	0.96609	1.00643	0.00034	1.73802	1.60E-05	1.42E-06	8.49E-07	1.43E-04	1.61E-04	5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	0.0E+00	0.0E+00	4.4E-08	3.8E-08	8.3E-09	9.0E-08
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	1.0033	1.05018	0.00038	1.97289	1.66E-05	1.48E-06	9.49E-07	1.62E-04	1.81E-04	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	4.9E-08	4.3E-08	9.4E-09	1.0E-07
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	0.76747	0.77621	0.00019	0.9693	1.27E-05	1.09E-06	4.74E-07	7.97E-05	9.40E-05	3.3E-08	9.8E-08	7.8E-08	6.7E-08	3.0E-08	0.0E+00	0.0E+00	2.6E-08	2.2E-08	4.9E-09	5.3E-08
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	0.80186	0.81329	0.0002	1.0416	1.33E-05	1.15E-06	4.99E-07	8.57E-05	1.01E-04	3.5E-08	1.1E-07	8.3E-08	7.2E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.4E-08	5.2E-09	5.6E-08
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	0.83848	0.85318	0.00022	1.12523	1.39E-05	1.20E-06	5.49E-07	9.26E-05	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	0.0E+00	0.0E+00	2.9E-08	2.6E-08	5.6E-09	6.1E-08
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	0.87602	0.89469	0.00024	1.2214	1.45E-05	1.26E-06	5.99E-07	1.00E-04	1.17E-04	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.0E-09	6.5E-08
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	0.91349	0.93685	0.00026	1.33217	1.51E-05	1.32E-06	6.49E-07	1.10E-04	1.27E-04	4.4E-08	1.3E-07	1.0E-07	9.1E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.5E-09	7.1E-08
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	0.95335	0.9822	0.00029	1.46536	1.58E-05	1.38E-06	7.24E-07	1.21E-04	1.38E-04	4.8E-08	1.4E-07	1.1E-07	9.9E-08	4.4E-08	0.0E+00	0.0E+00	3.8E-08	3.3E-08	7.1E-09	7.7E-08
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	0.99365	1.02875	0.00032	1.62517	1.65E-05	1.45E-06	7.99E-07	1.34E-04	1.52E-04	5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.2E-08	3.6E-08	7.9E-09	8.5E-08
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	1.03566	1.07782	0.00036	1.82364	1.72E-05	1.52E-06	8.99E-07	1.50E-04	1.70E-04	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	4.6E-08	4.0E-08	8.7E-09	9.5E-08
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	1.07

PHASE 1 OPERATIONAL

Mitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	1.06016	1.09503	0.00034	1.68717	1.76E-05	1.54E-06	8.49E-07	1.39E-04	1.59E-04
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	1.1103	1.15343	0.00038	1.89903	1.84E-05	1.63E-06	9.49E-07	1.56E-04	1.77E-04
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	1.16082	1.21338	0.00042	2.1657	1.92E-05	1.71E-06	1.05E-06	1.78E-04	2.00E-04
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	0.83661	0.84148	0.00022	1.02003	1.39E-05	1.19E-06	5.49E-07	8.39E-05	9.95E-05
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	0.88025	0.88753	0.00023	1.09964	1.46E-05	1.25E-06	5.74E-07	9.05E-05	1.07E-04
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	0.92441	0.93483	0.00025	1.18894	1.53E-05	1.32E-06	6.24E-07	9.78E-05	1.15E-04
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	0.97393	0.98831	0.00027	1.29573	1.61E-05	1.39E-06	6.74E-07	1.07E-04	1.25E-04
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	1.02498	1.0444	0.00029	1.41988	1.70E-05	1.47E-06	7.24E-07	1.17E-04	1.36E-04
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	1.07855	1.10429	0.00032	1.5678	1.79E-05	1.56E-06	7.99E-07	1.29E-04	1.49E-04
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	1.13236	1.16585	0.00035	1.74395	1.88E-05	1.64E-06	8.74E-07	1.43E-04	1.65E-04
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	1.18721	1.23	0.0004	1.95962	1.97E-05	1.73E-06	9.99E-07	1.61E-04	1.84E-04
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	1.24809	1.30198	0.00045	2.2399	2.07E-05	1.84E-06	1.12E-06	1.84E-04	2.08E-04
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	0.87219	0.87466	0.00024	1.04304	1.44E-05	1.23E-06	5.99E-07	8.58E-05	1.02E-04
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	0.9216	0.92616	0.00025	1.12637	1.53E-05	1.31E-06	6.24E-07	9.27E-05	1.10E-04
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	0.97264	0.98004	0.00027	1.22047	1.61E-05	1.38E-06	6.74E-07	1.00E-04	1.19E-04
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	1.02922	1.04033	0.00029	1.33188	1.70E-05	1.47E-06	7.24E-07	1.10E-04	1.29E-04
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	1.08543	1.10149	0.00031	1.45863	1.80E-05	1.55E-06	7.74E-07	1.20E-04	1.40E-04
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	1.14643	1.16888	0.00034	1.6112	1.90E-05	1.65E-06	8.49E-07	1.33E-04	1.54E-04
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	1.2126	1.24325	0.00037	1.79819	2.01E-05	1.75E-06	9.24E-07	1.48E-04	1.71E-04
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	1.27553	1.31643	0.00042	2.01971	2.11E-05	1.86E-06	1.05E-06	1.66E-04	1.90E-04
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	1.34815	1.4018	0.00047	2.31062	2.23E-05	1.98E-06	1.17E-06	1.90E-04	2.16E-04
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	0.90855	0.90831	0.00027	1.06462	1.50E-05	1.28E-06	6.74E-07	8.76E-05	1.05E-04
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	0.96308	0.96451	0.00028	1.15048	1.60E-05	1.36E-06	6.99E-07	9.46E-05	1.13E-04
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	1.01983	1.02369	0.00029	1.24732	1.69E-05	1.44E-06	7.24E-07	1.03E-04	1.22E-04
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	1.0828	1.08994	0.00031	1.3615	1.79E-05	1.54E-06	7.74E-07	1.12E-04	1.32E-04
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	1.14737	1.15907	0.00034	1.49245	1.90E-05	1.63E-06	8.49E-07	1.23E-04	1.44E-04
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	1.22152	1.2393	0.00037	1.65383	2.02E-05	1.75E-06	9.24E-07	1.36E-04	1.59E-04
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	1.29685	1.32286	0.0004	1.84461	2.15E-05	1.86E-06	9.99E-07	1.52E-04	1.76E-04
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	1.37152	1.40836	0.00045	2.07279	2.27E-05	1.98E-06	1.12E-06	1.71E-04	1.96E-04
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	1.45857	1.50948	0.00051	2.3726	2.42E-05	2.13E-06	1.27E-06	1.95E-04	2.23E-04
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	0.94578	0.94252	0.00029	1.08489	1.57E-05	1.33E-06	7.24E-07	8.92E-05	1.07E-04
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	1.00536	1.00327	0.00031	1.17274	1.67E-05	1.41E-06	7.74E-07	9.65E-05	1.15E-04
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	1.06861	1.06836	0.00032	1.27231	1.77E-05	1.51E-06	7.99E-07	1.05E-04	1.25E-04
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	1.14166	1.14393	0.00034	1.39159	1.89E-05	1.61E-06	8.49E-07	1.14E-04	1.36E-04
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	1.2172	1.22331	0.00037	1.52813	2.02E-05	1.72E-06	9.24E-07	1.26E-04	1.49E-04
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	1.29888	1.31047	0.0004	1.69032	2.15E-05	1.85E-06	9.99E-07	1.39E-04	1.63E-04
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	1.39085	1.41008	0.00044	1.88989	2.30E-05	1.99E-06	1.10E-06	1.55E-04	1.82E-04
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	1.48538	1.51538	0.00049	2.13083	2.46E-05	2.14E-06	1.22E-06	1.75E-04	2.03E-04
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	1.58618	1.63097	0.00055	2.43387	2.63E-05	2.30E-06	1.37E-06	2.00E-04	2.30E-04
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	0.98234	0.97583	0.00032	1.10274	1.63E-05	1.38E-06	7.99E-07	9.07E-05	1.09E-04
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	1.04748	1.04152	0.00034	1.19251	1.74E-05	1.47E-06	8.49E-07	9.81E-05	1.18E-04
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	1.11746	1.1126	0.00036	1.29431	1.85E-05	1.57E-06	8.99E-07	1.06E-04	1.27E-04
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	1.19991	1.19659	0.00038	1.41699	1.99E-05	1.69E-06	9.49E-07	1.17E-04	1.39E-04
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	1.28731	1.28672	0.00041	1.55809	2.13E-05	1.81E-06	1.02E-06	1.28E-04	1.52E-04
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	1.38038	1.38415	0.00044	1.72325	2.29E-05	1.95E-06	1.10E-06	1.42E-04	1.68E-04
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	1.48796	1.49811	0.00048	1.9274	2.46E-05	2.11E-06	1.20E-06	1.59E-04	1.87E-04
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	1.60263	1.62247	0.00054	2.1754	2.65E-05	2.29E-06	1.35E-06	1.79E-04	2.09E-04
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	1.72572	1.75987	0.00061	2.48561	2.86E-05	2.48E-06	1.52E-06	2.04E-04	2.37E-04
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	1.01842	1.00841	0.00035	1.1185	1.69E-05	1.42E-06	8.74E-07	9.20E-05	1.11E-04
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	1.08893	1.0788	0.00037	1.20965	1.80E-05	1.52E-06	9.24E-07	9.95E-05	1.20E-04
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	1.16611	1.15618	0.0004	1.31346	1.93E-05	1.63E-06	9.99E-07	1.08E-04	1.30E-04
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	1.2581	1.24851	0.00042	1.4388	2.08E-05	1.76E-06	1.05E-06	1.18E-04	1.42E-04
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	1.35844	1.35004	0.00045	1.58391	2.25E-05	1.90E-06	1.12E-06	1.30E-04	1.56E-04
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	1.46419	1.45854	0.00049	1.75158	2.43E-05	2.06E-06	1.22E-06	1.44E-04	1.72E-04
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	1.58567	1.58451	0.00054	1.95666	2.63E-05	2.23E-06	1.35E-06	1.61E-04	1.91E-04
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	1.71986	1.72622	0.0006	2.20761	2.85E-05	2.43E-06	1.50E-06	1.82E-04	2.14E-04
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	1.86923	1.88769	0.00068	2.52315	3.10E-05	2.66E-06	1.70E-06	2.08E-04	2.43E-04
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	1.05367	1.03989	0.00038	1.13215	1.75E-05	1.47E-06	9.49E-07	9.31E-05	1.13E-04
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	1.13261	1.11779	0.00041	1.22648	1.88E-05	1.58E-06	1.02E-06	1.01E-04	1.22E-04
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	1.22024	1.20443	0.00044	1.33429	2.02E-05	1.70E-06	1.10E-06	1.10E-04	1.33E-04
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	1.31852	1.30186	0.00047	1.45915	2.18E-05	1.83E-06	1.17E-06	1.20E-04	1.45E-04
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	1.42841	1.41129	0.00051	1.60483	2.37E-05	1.99E-06	1.27E-06	1.32E-04	1.59E-04
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	1.55033	1.53363	0.00055	1.77612	2.57E-05	2.16E-06	1.37E-06	1.46E-04	1.75E-04
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	1.69035	1.67527	0.00061	1.9838	2.80E-05	2.36E-06	1.52E-06	1.63E-04	1.95E-04
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	1.84771	1.83664	0.00068	2.23744	3.06E-05	2.59E-06	1.70E-06	1.84E-04	2.19E-04
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	2.02478	2.02173	0.00076	2.55466	3.35E-05	2.85E-06	1.90E-06	2.10E-04	2.48E-04
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	0.82412	0.86442	0.00032	1.81777	1.37E-05	1.22E-06	7.99E-07	1.50E-04	1.65E-04
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	0.84546	0.88972	0.00032	2.0895	1.40E-05	1.25E-06	7.99E-07	1.72E-04	1.88E-04
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	0.86524	0.91364	0.00032	2.46876	1.43E-05	1.29E-06	7.99E-07	2.03E-04	2.19E-04
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	0.88332	0.93603	0.00031	3.05047	1.46E-05	1.32E-06	7.74E-07	2.51E-04	2.68E-04
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	0.89841	0.95548	0.00031	4.07027	1.49E-05	1.35E-06	7.74E-07	3.35E-04	3.52E-04
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	0.91268	0.97426	0.0003	6.30039	1.51E-05	1.37E-06	7.49E-07	5.18E-04	5.36E-04
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	0.87895	0.92316	0.00034	1.98845	1.46E-05	1.30E-06	8.49E-07	1.64E-04	1.80E-04
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	0.9029	0.95182	0.00035	2.32404	1.50E-05	1.34E-06	8.74E-07	1.91E-04	2.08E-04
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	0.92577	0.97966	0.00035	2.82168	1.53E-05	1.38E-06	8.74E-07	2.32E-04	2.50E-04
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	0.9468	1.0059	0.00035	3.65866	1.57E-05	1.42E-06	8.74E-07	3.01E-04	3.19E-04
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	0.96459	1.029	0.00034	5.43304	1.60E-05	1.45E-06	8.49E-07	4.47E-04	4.65E-04
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	0.98183	1.05182	0.00033	12.53872	1.63E-05	1.48E-06	8.24E-07	1.03E-03	1.05E-03
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	0.9396	0.98811	0.00037	2.15177	1.56E-05	1.39E-06	9.24E-07	1.77E-04	1.95E-04
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	0.96752	1.02172	0.00038	2.54734	1.60E-05	1.44E-06	9.49E-07	2.10E-04	2.28E-04

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	4.3E-08	3.7E-08	8.2E-09	8.9E-08
6.1E-08	1.9E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	4.8E-08	4.2E-08	9.1E-09	9.9E-08
6.9E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	5.5E-08	4.7E-08	1.0E-08	1.1E-07
3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.3E-08	5.1E-09	5.6E-08
3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.5E-09	6.0E-08
4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.9E-09	6.4E-08
4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	2.9E-08	6.4E-09	7.0E-08
4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.0E-09	7.6E-08
5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.1E-08	3.5E-08	7.7E-09	8.4E-08
5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.5E-09	9.2E-08
6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	5.0E-08	4.3E-08	9.5E-09	1.0E-07
7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	0.0E+00	0.0E+00	5.7E-08	4.9E-08	1.1E-08	1.2E-07
3.5E-08	1.1E-07	8.4E-08	7.3E-08	3.3E-08	0.0E+00	0.0E+00	2.8E-08	2.4E-08	5.3E-09	5.7E-08
3.8E-08	1.1E-07	9.1E-08	7.8E-08	3.5E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.7E-09	6.1E-08
4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.1E-09	6.6E-08
4.5E-08	1.3E-07	1.1E-07	9.2E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.6E-09	7.2E-08
4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	3.8E-08	3.3E-08	7.2E-09	7.9E-08
5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.2E-08	3.6E-08	7.9E-09	8.6E-08
5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	0.0E+00	0.0E+00	4.7E-08	4.0E-08	8.8E-09	9.6E-08
6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	0.0E+00	0.0E+00	5.2E-08	4.5E-08	9.8E-09	1.1E-07
7.5E-08	2.3E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	5.9E-08	5.1E-08	1.1E-08	1.2E-07
3.6E-08	1.1E-07	8.6E-08	7.5E-08	3.4E-08	0.0E+00	0.0E+00	2.8E-08	2.5E-08	5.4E-09	5.9E-08
3.9E-08	1.2E-07	9.3E-08	8.0E-08	3.6E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.8E-09	6.3E-08
4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.9E-08	6.3E-09	6.8E-08
4.6E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.8E-09	7.4E-08
5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	3.9E-08	3.4E-08	7.4E-09	8.1E-08
5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	4.3E-08	3.7E-08	8.2E-09	8.9E-08
6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	4.8E-08	4.2E-08	9.1E-09	9.9E-08
6.8E-08	2.1E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	5.3E-08	4.6E-08	1.0E-08	1.1E-07
7.7E-08	2.3E-07	1.8E-07	1.6E-07	7.2E-08	0.0E+00	0.0E+00	6.1E-08	5.3E-08	1.1E-08	1.2E-07
3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.5E-09	6.0E-08
4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.9E-09	6.5E-08
4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	2.9E-08	6.4E-09	7.0E-08
4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	0.0E+00	0.0E+00	3.7E-08	3.2E-08	7.0E-09	7.6E-08
5.1E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	4.0E-08	3.5E-08	7.7E-09	8.3E-08
5.7E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	0.0E+00	0.0E+00	4.5E-08	3.9E-08	8.4E-09	9.1E-08
6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	4.9E-08	4.3E-08	9.4E-09	1.0E-07
7.0E-08	2.1E-07	1.7E-07	1.5E-07	6.5E-08	0.0E+00	0.0E+00	5.5E-08	4.8E-08	1.0E-08	1.1E-07
8.0E-08	2.4E-07	1.9E-07	1.6E-07	7.4E-08	0.0E+00	0.0E+00	6.3E-08	5.4E-08	1.2E-08	1.3E-07
3.8E-08	1.1E-07	9.0E-08	7.8E-08	3.5E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.6E-09	6.1E-08
4.1E-08	1.2E-07	9.7E-08	8.4E-08	3.8E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.1E-09	6.6E-08
4.4E-08	1.3E-07	1.1E-07	9.1E-08	4.1E-08	0.0E+00	0.0E+00	3.5E-08	3.0E-08	6.6E-09	7.1E-08
4.8E-08	1.5E-07	1.1E-07	9.9E-08	4.5E-08	0.0E+00	0.0E+00	3.8E-08	3.3E-08	7.2E-09	7.8E-08
5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	4.2E-08	3.6E-08	7.9E-09	8.5E-08
5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	4.6E-08	4.0E-08	8.6E-09	9.4E-08
6.5E-08	1.9E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	5.1E-08	4.4E-08	9.6E-09	1.0E-07
7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	0.0E+00	0.0E+00	5.7E-08	4.9E-08	1.1E-08	1.2E-07
8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	0.0E+00	0.0E+00	6.5E-08	5.6E-08	1.2E-08	1.3E-07
3.8E-08	1.2E-07	9.2E-08	7.9E-08	3.6E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.7E-09	6.2E-08
4.2E-08	1.3E-07	9.9E-08	8.6E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.8E-08	6.2E-09	6.7E-08
4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	0.0E+00	0.0E+00	3.5E-08	3.1E-08	6.7E-09	7.3E-08
4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	3.9E-08	3.3E-08	7.3E-09	7.9E-08
5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	0.0E+00	0.0E+00	4.2E-08	3.7E-08	8.0E-09	8.7E-08
5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	0.0E+00	0.0E+00	4.7E-08	4.0E-08	8.9E-09	9.6E-08
6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	0.0E+00	0.0E+00	5.2E-08	4.5E-08	9.8E-09	1.1E-07
7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	5.8E-08	5.0E-08	1.1E-08	1.2E-07
8.4E-08	2.5E-07	2.0E-07	1.7E-07	7.8E-08	0.0E+00	0.0E+00	6.6E-08	5.7E-08	1.3E-08	1.4E-07
3.9E-08	1.2E-07	9.3E-08	8.1E-08	3.6E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.8E-09	6.3E-08
4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	3.3E-08	2.9E-08	6.3E-09	6.8E-08
4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.8E-09	7.4E-08
5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	0.0E+00	0.0E+00	3.9E-08	3.4E-08	7.5E-09	8.1E-08
5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	4.3E-08	3.7E-08	8.2E-09	8.9E-08
6.1E-08	1.8E-07	1.4E-07	1.3E-07	5.6E-08	0.0E+00	0.0E+00	4.8E-08	4.1E-08	9.0E-09	9.8E-08
6.8E-08	2.0E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	5.3E-08	4.6E-08	1.0E-08	1.1E-07

PHASE 1 OPERATIONAL

Mitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	0.99418	1.05442	0.00039	3.14683	1.65E-05	1.49E-06	9.74E-07	2.59E-04	2.78E-04
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	1.01973	1.08642	0.00039	4.18957	1.69E-05	1.53E-06	9.74E-07	3.45E-04	3.64E-04
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	1.04113	1.11441	0.00039	6.43185	1.72E-05	1.57E-06	9.74E-07	5.29E-04	5.49E-04
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	1.06086	1.141	0.00038	14.66887	1.76E-05	1.61E-06	9.49E-07	1.21E-03	1.23E-03
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	1.00816	1.06141	0.0004	2.30544	1.67E-05	1.50E-06	9.99E-07	1.90E-04	2.09E-04
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	1.04068	1.10087	0.00042	2.74974	1.72E-05	1.55E-06	1.05E-06	2.26E-04	2.46E-04
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	1.07217	1.13979	0.00043	3.42533	1.78E-05	1.61E-06	1.07E-06	2.82E-04	3.02E-04
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	1.10239	1.17799	0.00044	4.58866	1.83E-05	1.66E-06	1.10E-06	3.77E-04	3.98E-04
409	UCART6	439816.6	3761570.65	439816.61, 3761570.65	1.12877	1.21269	0.00043	7.03405	1.87E-05	1.71E-06	1.07E-06	5.79E-04	6.00E-04
410	UCART6	439866.6	3761570.65	439866.61, 3761570.65	1.15083	1.24324	0.00043	15.44153	1.91E-05	1.75E-06	1.07E-06	1.27E-03	1.29E-03
411	UCART7	440451.1	3762893.83	440451.14, 3762893.83	9.44883	9.96138	0.01488	6.17945	1.57E-04	1.40E-05	3.72E-05	5.08E-04	7.16E-04
412	UCART7	440501.1	3762893.83	440501.14, 3762893.83	8.25137	8.64025	0.01294	4.75041	1.37E-04	1.22E-05	3.23E-05	3.91E-04	5.72E-04
413	UCART7	440551.1	3762893.83	440551.14, 3762893.83	7.27709	7.47923	0.01121	3.92471	1.21E-04	1.05E-05	2.80E-05	3.23E-04	4.82E-04
414	UCART7	440601.1	3762893.83	440601.14, 3762893.83	6.46176	6.50665	0.00971	3.37475	1.07E-04	9.17E-06	2.42E-05	2.78E-04	4.18E-04
415	UCART7	440651.1	3762893.83	440651.14, 3762893.83	5.77184	5.72	0.00846	2.97714	9.56E-05	8.06E-06	2.11E-05	2.45E-04	3.70E-04
416	UCART7	440701.1	3762893.83	440701.14, 3762893.83	5.17842	5.07974	0.00741	2.67352	8.58E-05	7.16E-06	1.85E-05	2.20E-04	3.31E-04
417	UCART7	440751.1	3762893.83	440751.14, 3762893.83	4.66456	4.55285	0.00656	2.43498	7.73E-05	6.42E-06	1.64E-05	2.00E-04	3.00E-04
418	UCART7	440801.1	3762893.83	440801.14, 3762893.83	4.21609	4.10786	0.00582	2.23812	6.98E-05	5.79E-06	1.45E-05	1.84E-04	2.74E-04
419	UCART7	440851.1	3762893.83	440851.14, 3762893.83	3.82333	3.72839	0.00521	2.07538	6.33E-05	5.25E-06	1.30E-05	1.71E-04	2.52E-04
420	UCART7	440451.1	3762943.83	440451.14, 3762943.83	7.55488	7.28931	0.00946	4.85369	1.25E-04	1.03E-05	2.36E-05	3.99E-04	5.58E-04
421	UCART7	440501.1	3762943.83	440501.14, 3762943.83	6.77929	6.68933	0.00882	4.09945	1.12E-04	9.43E-06	2.20E-05	3.37E-04	4.81E-04
422	UCART7	440551.1	3762943.83	440551.14, 3762943.83	6.12454	6.08949	0.00811	3.54039	1.01E-04	8.58E-06	2.03E-05	2.91E-04	4.22E-04
423	UCART7	440601.1	3762943.83	440601.14, 3762943.83	5.55093	5.50212	0.00735	3.11306	9.19E-05	7.75E-06	1.84E-05	2.56E-04	3.74E-04
424	UCART7	440651.1	3762943.83	440651.14, 3762943.83	5.05532	4.97808	0.00666	2.78648	8.37E-05	7.02E-06	1.66E-05	2.29E-04	3.37E-04
425	UCART7	440701.1	3762943.83	440701.14, 3762943.83	4.61621	4.5154	0.00602	2.52486	7.65E-05	6.36E-06	1.50E-05	2.08E-04	3.06E-04
426	UCART7	440751.1	3762943.83	440751.14, 3762943.83	4.22491	4.11557	0.00546	2.31491	7.00E-05	5.80E-06	1.36E-05	1.90E-04	2.80E-04
427	UCART7	440801.1	3762943.83	440801.14, 3762943.83	3.87102	3.75827	0.00493	2.13458	6.41E-05	5.30E-06	1.23E-05	1.76E-04	2.57E-04
428	UCART7	440851.1	3762943.83	440851.14, 3762943.83	3.55329	3.44666	0.00446	1.98147	5.89E-05	4.86E-06	1.11E-05	1.63E-04	2.38E-04
429	UCART8	441116.7	3763135.31	441116.67, 3763135.31	1.88214	1.80455	0.00176	1.23256	3.12E-05	2.54E-06	4.39E-06	1.01E-04	1.40E-04
430	UCART8	441166.7	3763135.31	441166.67, 3763135.31	1.79192	1.72068	0.00168	1.18139	2.97E-05	2.43E-06	4.20E-06	9.72E-05	1.33E-04
431	UCART8	441116.7	3763185.31	441116.67, 3763185.31	1.74261	1.67317	0.00154	1.17508	2.89E-05	2.36E-06	3.85E-06	9.67E-05	1.32E-04
432	UCART8	441166.7	3763185.31	441166.67, 3763185.31	1.66953	1.60118	0.00148	1.12868	2.77E-05	2.26E-06	3.70E-06	9.28E-05	1.26E-04
433	UCART8	441116.7	3763235.31	441116.67, 3763235.31	1.61143	1.53596	0.00134	1.11768	2.67E-05	2.16E-06	3.35E-06	9.19E-05	1.24E-04
434	UCART8	441166.7	3763235.31	441166.67, 3763235.31	1.54658	1.48489	0.00129	1.07561	2.56E-05	2.09E-06	3.22E-06	8.85E-05	1.19E-04
435	UCART8	441116.7	3763285.31	441116.67, 3763285.31	1.48476	1.42114	0.00116	1.0596	2.46E-05	2.00E-06	2.90E-06	8.72E-05	1.17E-04
436	UCART8	441166.7	3763285.31	441166.67, 3763285.31	1.4396	1.37838	0.00113	1.0222	2.38E-05	1.94E-06	2.82E-06	8.41E-05	1.13E-04
437	UCART8	441116.7	3763335.31	441116.67, 3763335.31	1.35002	1.28794	0.00101	1.00633	2.24E-05	1.82E-06	2.52E-06	8.28E-05	1.09E-04
438	UCART8	441166.7	3763335.31	441166.67, 3763335.31	1.32196	1.26531	0.00099	0.97025	2.19E-05	1.78E-06	2.47E-06	7.98E-05	1.06E-04
439	UCART8	441116.7	3763385.31	441116.67, 3763385.31	1.22277	1.16432	0.00089	0.95361	2.03E-05	1.64E-06	2.22E-06	7.84E-05	1.03E-04
440	UCART8	441166.7	3763385.31	441166.67, 3763385.31	1.20447	1.14931	0.00087	0.92393	2.00E-05	1.62E-06	2.17E-06	7.60E-05	9.97E-05
441	UCART8	441116.7	3763435.31	441116.67, 3763435.31	1.10507	1.05049	0.00078	0.89888	1.83E-05	1.48E-06	1.95E-06	7.39E-05	9.57E-05
442	UCART8	441166.7	3763435.31	441166.67, 3763435.31	1.09457	1.04284	0.00077	0.87255	1.81E-05	1.47E-06	1.92E-06	7.18E-05	9.33E-05
443	UCART9	440433.4	3762815.13	440433.43, 3762815.13	13.99045	17.34975	0.03218	8.18407	2.32E-04	2.45E-05	8.04E-05	6.73E-04	1.01E-03
444	UCART9	440483.4	3762815.13	440483.43, 3762815.13	11.56541	12.88361	0.02365	5.75448	1.92E-04	1.82E-05	5.91E-05	4.73E-04	7.42E-04
445	UCART9	440533.4	3762815.13	440533.43, 3762815.13	9.74823	10.18671	0.01836	4.56477	1.61E-04	1.44E-05	4.58E-05	3.75E-04	5.97E-04
446	UCART9	440583.4	3762815.13	440583.43, 3762815.13	8.31357	8.3481	0.01474	3.83582	1.38E-04	1.18E-05	3.68E-05	3.16E-04	5.02E-04
447	UCART9	440633.4	3762815.13	440633.43, 3762815.13	7.16191	7.0522	0.01215	3.33415	1.19E-04	9.94E-06	3.03E-05	2.74E-04	4.33E-04
448	UCART9	440683.4	3762815.13	440683.43, 3762815.13	6.22973	6.07861	0.01023	2.96392	1.03E-04	8.57E-06	2.55E-05	2.44E-04	3.81E-04
449	UCART9	440733.4	3762815.13	440733.43, 3762815.13	5.46918	5.3246	0.00874	2.67482	9.06E-05	7.50E-06	2.18E-05	2.20E-04	3.40E-04
450	UCART9	440783.4	3762815.13	440783.43, 3762815.13	4.84226	4.70959	0.00756	2.4454	8.02E-05	6.64E-06	1.89E-05	2.01E-04	3.07E-04
451	UCART9	440833.4	3762815.13	440833.43, 3762815.13	4.32117	4.2295	0.00661	2.25348	7.16E-05	5.96E-06	1.65E-05	1.85E-04	2.79E-04
452	UCART9	440883.4	3762815.13	440883.43, 3762815.13	3.88272	3.81225	0.00582	2.09289	6.43E-05	5.37E-06	1.45E-05	1.72E-04	2.56E-04
453	UCART9	440933.4	3762815.13	440933.43, 3762815.13	3.50722	3.43559	0.00517	1.95661	5.81E-05	4.84E-06	1.29E-05	1.61E-04	2.37E-04
454	UCART9	440983.4	3762815.13	440983.43, 3762815.13	3.18532	3.13139	0.00462	1.83822	5.28E-05	4.41E-06	1.15E-05	1.51E-04	2.20E-04
455	UCART9	440433.4	3762865.13	440433.43, 3762865.13	11.33296	12.79993	0.0208	7.83128	1.88E-04	1.80E-05	5.19E-05	6.44E-04	9.02E-04
456	UCART9	440483.4	3762865.13	440483.43, 3762865.13	9.66697	10.57708	0.01707	5.50186	1.60E-04	1.49E-05	4.26E-05	4.53E-04	6.70E-04
457	UCART9	440533.4	3762865.13	440533.43, 3762865.13	8.37127	8.8049	0.01415	4.37203	1.39E-04	1.24E-05	3.53E-05	3.60E-04	5.46E-04
458	UCART9	440583.4	3762865.13	440583.43, 3762865.13	7.32106	7.45486	0.01188	3.68146	1.21E-04	1.05E-05	2.97E-05	3.03E-04	4.64E-04
459	UCART9	440633.4	3762865.13	440633.43, 3762865.13	6.44883	6.42255	0.0101	3.20495	1.07E-04	9.05E-06	2.52E-05	2.64E-04	4.05E-04
460	UCART9	440683.4	3762865.13	440683.43, 3762865.13	5.71479	5.61971	0.00869	2.85315	9.47E-05	7.92E-06	2.17E-05	2.35E-04	3.59E-04
461	UCART9	440733.4	3762865.13	440733.43, 3762865.13	5.0918	4.97582	0.00755	2.57868	8.43E-05	7.01E-06	1.89E-05	2.12E-04	3.22E-04
462	UCART9	440783.4	3762865.13	440783.43, 3762865.13	4.56024	4.44993	0.00663	2.35961	7.55E-05	6.27E-06	1.66E-05	1.94E-04	2.92E-04
463	UCART9	440833.4	3762865.13	440833.43, 3762865.13	4.10453	4.00759	0.00586	2.17917	6.80E-05	5.65E-06	1.46E-05	1.79E-04	2.68E-04
464	UCART9	440883.4	3762865.13	440883.43, 3762865.13	3.71439	3.61944	0.00522	2.02632	6.15E-05	5.10E-06	1.30E-05	1.67E-04	2.46E-04
465	UCART9	440933.4	3762865.13	440933.43, 3762865.13	3.37493	3.29631	0.00468	1.89523	5.59E-05	4.65E-06	1.17E-05	1.56E-04	2.28E-04
466	UCART9	440983.4	3762865.13	440983.43, 3762865.13	3.08239	3.01753	0.00421	1.77997	5.11E-05	4.25E-06	1.05E-05	1.46E-04	2.12E-04
467	UCART10	441118.3	3762686.02	441118.27, 3762686.02	2.54889	2.54238	0.00393	1.69993	4.22E-05	3.58E-06	9.81E-06	1.40E-04	1.95E-04
468	UCART10	441168.3	3762686.02	441168.27, 3762686.02	2.34894	2.34689	0.00355	1.61694	3.89E-05	3.31E-06	8.86E-06	1.33E-04	1.84E-04
469	UCART10	441118.3	3762736.02	441118.27, 3762736.02	2.56243	2.55156	0.0038	1.65184	4.24E-05	3.60E-06	9.49E-06	1.36E-04	1.91E-04
470	UCART10	441168.3	3762736.02	441168.27, 3762736.02	2.35919	2.34595	0.00344	1.57013	3.91E-05	3.31E-06	8.59E-06	1.29E-04	1.80E-04
471	UCART10	441118.3	3762786.02	441118.27, 3762786.02	2.54184	2.52187	0.00362	1.60612	4.21E-05	3.55E-06	9.04E-06	1.32E-04	1.87E-04
472	UCART10	441168.3	3762786.02	441168.27, 3762786.02	2.34509	2.33179	0.00328	1.52651	3.88E-05	3.29E-06	8.19E-06	1.26E-04	1.76E-04
473	UCART10	441118.3	3762836.02	441118.27, 3762836.02	2.495	2.46808	0.00339	1.55959	4.13E-05	3.48E-06	8.47E-06	1.28E-04	1.82E-04
474	UCART10	441168.3	3762836.02	441168.27, 3762836.02	2.30736	2.28614	0.00309	1.48162	3.82E-05	3.22E-06	7.72E-06	1.22E-04	1.71E-04
475	UCART11	440411.7	3762093.41	440411.67, 3762093.41	3.13887	3.94675	0.00424	21.05271	5.20E-05	5.56E-06	1.06E-05	1.73E-03	1.80E-03
476	UCART11	440461.7	3762093.41	440461.67, 3762093.41	2.92671	3.60029	0.0039	16.71312	4.85E-05	5.07E-06	9.74E-06	1.37E-03	1.44E-03
477	UCART11	440511.7	3762093.41	440511.67, 3762093.41	2.7336	3.30053	0.00361	15.62488	4.53E-05	4.65E-06	9.01E-06	1.29E-03	1.34E-03
478	UCART11	440561.7	3762093.41	440561.67, 3762093.41	2.55412	3.0352	0.00336	15.09334	4.23E-05	4.28E-06	8.39E-06	1.24E-03	1.30E-03
479	UCART11	440611.7	3762093.41	440611.67, 3762093.41	2.38796	2.79987	0.00314	14.75737	3.96E-05	3.95E-06	7.84E-06	1.21E-03	1.27E-03
480	UCART11	440411.7	3762143.41	440411.67, 3762143.41	3.64911	4.69076	0.00588	15.79293	6.04E-05	6.61E-06	1.47E-05	1.30E-03	1.38E-03

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
401	UCART6	9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	0.0E+00	0.0E+00	7.6E-08	6.5E-08	1.4E-08	1.6E-07
402	UCART6	1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	9.9E-08	8.6E-08	1.9E-08	2.0E-07
403	UCART6	1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.8E-07	0.0E+00	0.0E+00	1.5E-07	1.3E-07	2.8E-08	3.1E-07
404	UCART6	4.2E-07	1.3E-06	1.0E-06	8.8E-07	3.9E-07	0.0E+00	0.0E+00	3.3E-07	2.9E-07	6.3E-08	6.9E-07
405	UCART6	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	0.0E+00	0.0E+00	5.7E-08	4.9E-08	1.1E-08	1.2E-07
406	UCART6	8.5E-08	2.6E-07	2.0E-07	1.8E-07	7.9E-08	0.0E+00	0.0E+00	6.7E-08	5.8E-08	1.3E-08	1.4E-07
407	UCART6	1.0E-07	3.2E-07	2.5E-07	2.2E-07	9.7E-08	0.0E+00	0.0E+00	8.2E-08	7.1E-08	1.6E-08	1.7E-07
408	UCART6	1.4E-07	4.2E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.1E-07	9.4E-08	2.1E-08	2.2E-07
409	UCART6	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	1.6E-07	1.4E-07	3.1E-08	3.4E-07
410	UCART6	4.5E-07	1.4E-06	1.1E-06	9.2E-07	4.2E-07	0.0E+00	0.0E+00	3.5E-07	3.0E-07	6.7E-08	7.2E-07
411	UCART7	2.5E-07	7.5E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	2.0E-07	1.7E-07	3.7E-08	4.0E-07
412	UCART7	2.0E-07	6.0E-07	4.7E-07	4.1E-07	1.8E-07	0.0E+00	0.0E+00	1.6E-07	1.3E-07	3.0E-08	3.2E-07
413	UCART7	1.7E-07	5.0E-07	4.0E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	1.3E-07	1.1E-07	2.5E-08	2.7E-07
414	UCART7	1.4E-07	4.4E-07	3.5E-07	3.0E-07	1.3E-07	0.0E+00	0.0E+00	1.1E-07	9.9E-08	2.2E-08	2.3E-07
415	UCART7	1.3E-07	3.9E-07	3.1E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.0E-07	8.7E-08	1.9E-08	2.1E-07
416	UCART7	1.1E-07	3.5E-07	2.7E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	9.0E-08	7.8E-08	1.7E-08	1.9E-07
417	UCART7	1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	0.0E+00	0.0E+00	8.2E-08	7.1E-08	1.5E-08	1.7E-07
418	UCART7	9.5E-08	2.9E-07	2.3E-07	2.0E-07	8.8E-08	0.0E+00	0.0E+00	7.5E-08	6.5E-08	1.4E-08	1.5E-07
419	UCART7	8.7E-08	2.6E-07	2.1E-07	1.8E-07	8.1E-08	0.0E+00	0.0E+00	6.9E-08	5.9E-08	1.3E-08	1.4E-07
420	UCART7	1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	0.0E+00	0.0E+00	1.5E-07	1.3E-07	2.9E-08	3.1E-07
421	UCART7	1.7E-07	5.0E-07	4.0E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	1.3E-07	1.1E-07	2.5E-08	2.7E-07
422	UCART7	1.5E-07	4.4E-07	3.5E-07	3.0E-07	1.4E-07	0.0E+00	0.0E+00	1.1E-07	9.9E-08	2.2E-08	2.4E-07
423	UCART7	1.3E-07	3.9E-07	3.1E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.0E-07	8.8E-08	1.9E-08	2.1E-07
424	UCART7	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	9.2E-08	7.9E-08	1.7E-08	1.9E-07
425	UCART7	1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.8E-08	0.0E+00	0.0E+00	8.3E-08	7.2E-08	1.6E-08	1.7E-07
426	UCART7	9.7E-08	2.9E-07	2.3E-07	2.0E-07	9.0E-08	0.0E+00	0.0E+00	7.6E-08	6.6E-08	1.4E-08	1.6E-07
427	UCART7	8.9E-08	2.7E-07	2.1E-07	1.8E-07	8.3E-08	0.0E+00	0.0E+00	7.0E-08	6.1E-08	1.3E-08	1.4E-07
428	UCART7	8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	0.0E+00	0.0E+00	6.5E-08	5.6E-08	1.2E-08	1.3E-07
429	UCART8	4.8E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	3.8E-08	3.3E-08	7.2E-09	7.8E-08
430	UCART8	4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.9E-09	7.5E-08
431	UCART8	4.6E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	0.0E+00	0.0E+00	3.6E-08	3.1E-08	6.8E-09	7.4E-08
432	UCART8	4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.1E-08	0.0E+00	0.0E+00	3.4E-08	3.0E-08	6.5E-09	7.1E-08
433	UCART8	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	3.4E-08	2.9E-08	6.4E-09	6.9E-08
434	UCART8	4.1E-08	1.2E-07	9.9E-08	8.5E-08	3.8E-08	0.0E+00	0.0E+00	3.3E-08	2.8E-08	6.2E-09	6.7E-08
435	UCART8	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	0.0E+00	0.0E+00	3.2E-08	2.8E-08	6.0E-09	6.5E-08
436	UCART8	3.9E-08	1.2E-07	9.3E-08	8.1E-08	3.6E-08	0.0E+00	0.0E+00	3.1E-08	2.7E-08	5.8E-09	6.3E-08
437	UCART8	3.8E-08	1.1E-07	9.0E-08	7.8E-08	3.5E-08	0.0E+00	0.0E+00	3.0E-08	2.6E-08	5.6E-09	6.1E-08
438	UCART8	3.7E-08	1.1E-07	8.7E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	2.9E-08	2.5E-08	5.5E-09	5.9E-08
439	UCART8	3.6E-08	1.1E-07	8.5E-08	7.3E-08	3.3E-08	0.0E+00	0.0E+00	2.8E-08	2.4E-08	5.3E-09	5.7E-08
440	UCART8	3.5E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	2.7E-08	2.4E-08	5.1E-09	5.6E-08
441	UCART8	3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	0.0E+00	0.0E+00	2.6E-08	2.3E-08	4.9E-09	5.4E-08
442	UCART8	3.2E-08	9.8E-08	7.7E-08	6.7E-08	3.0E-08	0.0E+00	0.0E+00	2.5E-08	2.2E-08	4.8E-09	5.2E-08
443	UCART9	3.5E-07	1.1E-06	8.3E-07	7.2E-07	3.2E-07	0.0E+00	0.0E+00	2.8E-07	2.4E-07	5.2E-08	5.7E-07
444	UCART9	2.6E-07	7.8E-07	6.1E-07	5.3E-07	2.4E-07	0.0E+00	0.0E+00	2.0E-07	1.7E-07	3.8E-08	4.2E-07
445	UCART9	2.1E-07	6.2E-07	4.9E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	1.6E-07	1.4E-07	3.1E-08	3.3E-07
446	UCART9	1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	1.4E-07	1.2E-07	2.6E-08	2.8E-07
447	UCART9	1.5E-07	4.5E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.2E-07	1.0E-07	2.2E-08	2.4E-07
448	UCART9	1.3E-07	4.0E-07	3.1E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.0E-07	9.0E-08	2.0E-08	2.1E-07
449	UCART9	1.2E-07	3.6E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	9.3E-08	8.0E-08	1.8E-08	1.9E-07
450	UCART9	1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.9E-08	0.0E+00	0.0E+00	8.4E-08	7.2E-08	1.6E-08	1.7E-07
451	UCART9	9.7E-08	2.9E-07	2.3E-07	2.0E-07	9.0E-08	0.0E+00	0.0E+00	7.6E-08	6.6E-08	1.4E-08	1.6E-07
452	UCART9	8.9E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	0.0E+00	0.0E+00	7.0E-08	6.0E-08	1.3E-08	1.4E-07
453	UCART9	8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	0.0E+00	0.0E+00	6.5E-08	5.6E-08	1.2E-08	1.3E-07
454	UCART9	7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	0.0E+00	0.0E+00	6.0E-08	5.2E-08	1.1E-08	1.2E-07
455	UCART9	3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	0.0E+00	0.0E+00	2.5E-07	2.1E-07	4.7E-08	5.0E-07
456	UCART9	2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.2E-07	0.0E+00	0.0E+00	1.8E-07	1.6E-07	3.5E-08	3.8E-07
457	UCART9	1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.8E-07	0.0E+00	0.0E+00	1.5E-07	1.3E-07	2.8E-08	3.1E-07
458	UCART9	1.6E-07	4.9E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	1.3E-07	1.1E-07	2.4E-08	2.6E-07
459	UCART9

PHASE 1 OPERATIONAL

Mitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	8.23E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
481	UCART11	440461.7	3762143.41	440461.67, 3762143.41	3.36654	4.20623	0.00522	10.33808	5.58E-05	5.93E-06	1.30E-05	8.50E-04	9.25E-04	3.2E-07	9.7E-07	7.6E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	2.5E-07	2.2E-07	4.8E-08	5.2E-07
482	UCART11	440511.7	3762143.41	440511.67, 3762143.41	3.11588	3.804	0.00471	8.69593	5.16E-05	5.36E-06	1.18E-05	7.15E-04	7.84E-04	2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	0.0E+00	0.0E+00	2.1E-07	1.8E-07	4.0E-08	4.4E-07
483	UCART11	440561.7	3762143.41	440561.67, 3762143.41	2.88503	3.45619	0.0043	7.90869	4.78E-05	4.87E-06	1.07E-05	6.51E-04	7.14E-04	2.5E-07	7.5E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	1.9E-07	1.7E-07	3.7E-08	4.0E-07
484	UCART11	440611.7	3762143.41	440611.67, 3762143.41	2.68009	3.16091	0.00396	7.43146	4.44E-05	4.45E-06	9.89E-06	6.11E-04	6.70E-04	2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.2E-07	0.0E+00	0.0E+00	1.8E-07	1.6E-07	3.5E-08	3.8E-07
485	UCART12	440406.6	3762008.86	440406.61, 3762008.86	2.50366	3.02736	0.00241	7.95658	4.15E-05	4.27E-06	6.02E-06	6.55E-04	7.06E-04	2.4E-07	7.4E-07	5.8E-07	5.0E-07	2.3E-07	0.0E+00	0.0E+00	1.9E-07	1.7E-07	3.6E-08	4.0E-07
486	UCART12	440456.6	3762008.86	440456.61, 3762008.86	2.36777	2.82502	0.00234	7.64891	3.92E-05	3.98E-06	5.84E-06	6.29E-04	6.78E-04	2.3E-07	7.1E-07	5.6E-07	4.8E-07	2.2E-07	0.0E+00	0.0E+00	1.8E-07	1.6E-07	3.5E-08	3.8E-07
487	UCART12	440506.6	3762008.86	440506.61, 3762008.86	2.23734	2.63742	0.00226	7.34627	3.71E-05	3.72E-06	5.64E-06	6.04E-04	6.51E-04	2.3E-07	6.8E-07	5.4E-07	4.6E-07	2.1E-07	0.0E+00	0.0E+00	1.8E-07	1.5E-07	3.4E-08	3.6E-07
488	UCART12	440556.6	3762008.86	440556.61, 3762008.86	2.11281	2.4637	0.00218	7.07869	3.50E-05	3.47E-06	5.44E-06	5.82E-04	6.26E-04	2.2E-07	6.5E-07	5.2E-07	4.5E-07	2.0E-07	0.0E+00	0.0E+00	1.7E-07	1.5E-07	3.2E-08	3.5E-07
489	UCART12	440606.6	3762008.86	440606.61, 3762008.86	1.99659	2.30578	0.0021	6.85662	3.31E-05	3.25E-06	5.24E-06	5.64E-04	6.06E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	1.6E-07	1.4E-07	3.1E-08	3.4E-07
490	UCART12	440656.6	3762008.86	440656.61, 3762008.86	1.88808	2.16202	0.00202	6.66166	3.13E-05	3.05E-06	5.04E-06	5.48E-04	5.87E-04	2.0E-07	6.1E-07	4.8E-07	4.2E-07	1.9E-07	0.0E+00	0.0E+00	1.6E-07	1.4E-07	3.0E-08	3.3E-07
491	UCART12	440706.6	3762008.86	440706.61, 3762008.86	1.78752	2.03165	0.00194	6.49509	2.96E-05	2.86E-06	4.84E-06	5.34E-04	5.72E-04	2.0E-07	6.0E-07	4.7E-07	4.1E-07	1.8E-07	0.0E+00	0.0E+00	1.6E-07	1.3E-07	2.9E-08	3.2E-07
492	UCART12	440756.6	3762008.86	440756.61, 3762008.86	1.69439	1.913	0.00186	6.35101	2.81E-05	2.70E-06	4.64E-06	5.22E-04	5.58E-04	1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	0.0E+00	0.0E+00	1.5E-07	1.3E-07	2.9E-08	3.1E-07
493	UCART12	440806.6	3762008.86	440806.61, 3762008.86	1.60413	1.80007	0.00179	6.15355	2.66E-05	2.54E-06	4.47E-06	5.06E-04	5.40E-04	1.9E-07	5.6E-07	4.5E-07	3.9E-07	1.7E-07	0.0E+00	0.0E+00	1.5E-07	1.3E-07	2.8E-08	3.0E-07
494	UCART12	440856.6	3762008.86	440856.61, 3762008.86	1.52518	1.70165	0.00172	6.02626	2.53E-05	2.40E-06	4.30E-06	4.96E-04	5.28E-04	1.8E-07	5.5E-07	4.4E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	1.4E-07	1.2E-07	2.7E-08	3.0E-07
495	UCART12	440906.6	3762008.86	440906.61, 3762008.86	1.45417	1.61356	0.00165	5.92553	2.41E-05	2.27E-06	4.12E-06	4.87E-04	5.18E-04	1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	0.0E+00	0.0E+00	1.4E-07	1.2E-07	2.7E-08	2.9E-07
496	UCART12	440956.6	3762008.86	440956.61, 3762008.86	1.38516	1.52921	0.00159	5.74626	2.29E-05	2.16E-06	3.97E-06	4.73E-04	5.02E-04	1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	1.4E-07	1.2E-07	2.6E-08	2.8E-07
497	UCART12	441006.6	3762008.86	441006.61, 3762008.86	1.32142	1.45195	0.00153	5.53567	2.19E-05	2.05E-06	3.82E-06	4.55E-04	4.83E-04	1.7E-07	5.0E-07	4.0E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	1.3E-07	1.1E-07	2.5E-08	2.7E-07
498	UCART12	441056.6	3762008.86	441056.61, 3762008.86	1.26068	1.37918	0.00147	5.21033	2.09E-05	1.94E-06	3.67E-06	4.29E-04	4.55E-04	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	1.2E-07	1.1E-07	2.3E-08	2.5E-07
499	UCART12	441106.6	3762008.86	441106.61, 3762008.86	1.20563	1.31355	0.00142	4.7352	2.00E-05	1.85E-06	3.55E-06	3.90E-04	4.15E-04	1.4E-07	4.3E-07	3.4E-07	3.0E-07	1.3E-07	0.0E+00	0.0E+00	1.1E-07	9.8E-08	2.1E-08	2.3E-07
500	UCART12	441156.6	3762008.86	441156.61, 3762008.86	1.15464	1.25314	0.00136	3.95343	1.91E-05	1.77E-06	3.40E-06	3.25E-04	3.49E-04	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	9.5E-08	8.2E-08	1.8E-08	2.0E-07
501	UCART12	440406.6	3762058.86	440406.61, 3762058.86	2.86371	3.54661	0.00337	18.14263	4.74E-05	5.00E-06	8.42E-06	1.49E-03	1.55E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	4.2E-07	3.7E-07	8.0E-08	8.7E-07
502	UCART12	440456.6	3762058.86	440456.61, 3762058.86	2.68655	3.26788	0.00318	17.02844	4.45E-05	4.61E-06	7.94E-06	1.40E-03	1.46E-03	5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	0.0E+00	0.0E+00	4.0E-07	3.4E-07	7.5E-08	8.2E-07
503	UCART12	440506.6	3762058.86	440506.61, 3762058.86	2.52199	3.01962	0.003	16.37055	4.18E-05	4.26E-06	7.49E-06	1.35E-03	1.40E-03	4.8E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	3.8E-07	3.3E-07	7.2E-08	7.8E-07
504	UCART12	440556.6	3762058.86	440556.61, 3762058.86	2.36826	2.7966	0.00283	15.90503	3.92E-05	3.94E-06	7.07E-06	1.31E-03	1.36E-03	4.7E-07	1.4E-06	1.1E-06	9.7E-07	4.4E-07	0.0E+00	0.0E+00	3.7E-07	3.2E-07	7.0E-08	7.6E-07
505	UCART12	440606.6	3762058.86	440606.61, 3762058.86	2.22471	2.59582	0.00268	15.55753	3.69E-05	3.66E-06	6.69E-06	1.28E-03	1.33E-03	4.6E-07	1.4E-06	1.1E-06	9.5E-07	4.3E-07	0.0E+00	0.0E+00	3.6E-07	3.1E-07	6.8E-08	7.4E-07
506	UCART12	440656.6	3762058.86	440656.61, 3762058.86	2.09342	2.41757	0.00254	15.26072	3.47E-05	3.41E-06	6.34E-06	1.26E-03	1.30E-03	4.5E-07	1.4E-06	1.1E-06	9.3E-07	4.2E-07	0.0E+00	0.0E+00	3.5E-07	3.1E-07	6.7E-08	7.3E-07
507	UCART12	440706.6	3762058.86	440706.61, 3762058.86	1.9739	2.2591	0.0024	15.11053	3.27E-05	3.18E-06	5.99E-06	1.24E-03	1.28E-03	4.4E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	0.0E+00	0.0E+00	3.5E-07	3.0E-07	6.6E-08	7.2E-07
508	UCART12	440756.6	3762058.86	440756.61, 3762058.86	1.8627	2.11476	0.00228	14.93967	3.09E-05	2.98E-06	5.69E-06	1.23E-03	1.27E-03	4.4E-07	1.3E-06	1.0E-06	9.1E-07	4.1E-07	0.0E+00	0.0E+00	3.5E-07	3.0E-07	6.5E-08	7.1E-07
509	UCART12	440806.6	3762058.86	440806.61, 3762058.86	1.75727	1.98062	0.00217	14.48465	2.91E-05	2.79E-06	5.42E-06	1.19E-03	1.23E-03	4.3E-07	1.3E-06	1.0E-06	8.8E-07	3.9E-07	0.0E+00	0.0E+00	3.3E-07	2.9E-07	6.3E-08	6.9E-07
510	UCART12	440856.6	3762058.86	440856.61, 3762058.86	1.66416	1.86297	0.00207	14.38902	2.76E-05	2.63E-06	5.17E-06	1.18E-03	1.22E-03	4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	0.0E+00	0.0E+00	3.3E-07	2.9E-07	6.3E-08	6.8E-07
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	1.5796	1.75717	0.00197	14.3195	2.62E-05	2.48E-06	4.92E-06	1.18E-03	1.21E-03	4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	0.0E+00	0.0E+00	3.3E-07	2.9E-07	6.2E-08	6.8E-07
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	1.50009	1.65913	0.00187	14.03677	2.48E-05	2.34E-06	4.67E-06	1.15E-03	1.19E-03	4.1E-07	1.2E-06	9.8E-07	8.5E-07	3.8E-07	0.0E+00	0.0E+00	3.2E-07	2.8E-07	6.1E-08	6.6E-07
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	1.42646	1.56936	0.00179	13.73519	2.36E-05	2.21E-06	4.47E-06	1.13E-03	1.16E-03	4.0E-07	1.2E-06	9.6E-07	8.3E-07	3.7E-07	0.0E+00	0.0E+00	3.2E-07	2.7E-07	6.0E-08	6.5E-07
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	1.35862	1.48742	0.00171	13.34084	2.25E-05	2.10E-06	4.27E-06	1.10E-03	1.13E-03	3.9E-07	1.2E-06	9.3E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	3.1E-07	2.7E-07	5.8E-08	6.3E-07
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	1.29587	1.41228	0.00163	12.60778	2.15E-05	1.99E-06	4.07E-06	1.04E-03	1.06E-03	3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	0.0E+00	0.0E+00	2.9E-07	2.5E-07	5.5E-08	6.0E-07
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	1.23791	1.34335	0.00156	9.44031	2.05E-05	1.89E-06	3.90E-06	7.77E-04	8.03E-04	2.8E-07	8.4E-07	6.6E-07	5.7E-07	2.6E-07	0.0E+00	0.0E+00	2.2E-07	1.9E-07	4.1E-08	4.5E-07
517	ONSITE	440191.4	3762138.44	440191.38, 3762138.44	5.12713	8.19657	0.0123	9.0566	8.49E-05	1.16E-05	3.07E-05	7.45E-04	8.72E-04	3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	0.0E+00	0.0E+00	2.4E-07	2.1E-07	4.5E-08	4.9E-07
518	ONSITE	440241.4	3762138.44	440241.38, 3762138.44	4.71402	7.04676	0.01026	9.03853	7.81E-05	9.93E-06	2.56E-05	7.44E-04	8.57E-04	3.0E-07	9.0E-07	7.1E-07	6.1E-07	2.8E-07	0.0E+00	0.0E+00	2.3E-07	2.0E-07	4.4E-08	4.8E-07
519	ONSITE	440291.4	3762138.44	440291.38, 3762138.44	4.34621	6.14224	0.00833	9.44537	7.20E-05	8.66E-06	2.08E-05	7.77E-04	8.78E-04	3.0E-07	9.2E-07	7.3E-07	6.3E-07	2.8E-07	0.0E+00	0.0E+00	2.4E-07	2.1E-07	4.5E-08	4.9E-07
520	ONSITE	440341.4	3762138.44	440341.38, 3762138.44	3.99923	5.39472	0.00698	11.22829	6.62E-05	7.60E-06	1.74E-05	9.24E-04	1.01E-03	3.5E-07	1.1E-06	8.4E-07	7.3E-07	3.3E-07	0.0E+00	0.0E+00	2.8E-07	2.4E-07	5.2E-08	5.7E-07
521	ONSITE	440191.4	3762188.44	440191.38, 3762188.44	6.59082	12.19469	0.03572	7.20016	1.09E-04	1.72E-05	8.92E-05	5.92E-04	8.08E-04	2.8E-07	8.4E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	2.2E-07	1.9E-07	4.2E-08	4.5E-07
522	ONSITE	440241.4	3762188.44	440241.38, 3762188.44	5.8306	9.44414	0.01908	7.24253	9.66E-05	1.33E-05	4.76E-05	5.96E-04	7.53E-04	2.6E-07	7.9E-07	6.2E-07	5.4E-07	2.4E-07	0.0E+00	0.0E+00	2.1E-07	1.8E-07	3.9E-08	4.2E-07
523	ONSITE	440291.4	3762188.44	440291.38, 3762188.44	5.2851	7.82445	0.01291	7.74744	8.75E-05	1.10E-05	3.22E-05	6.37E-04	7.68E-04	2.7E-07	8.0E-07	6.3E-07	5.5E-07	2.5E-07	0.0E+00	0.0E+00	2.1E-07	1.8E-07	4.0E-08	4.3E-07
524	ONSITE	440341.4	3762188.44	440341.38, 3762188.44	4.79182	6.6451	0.00992	9.822	7.94E-05	9.37E-06	2.48E-05	8.08E-04	9.21E-04	3.2E-07	9.6E-07	7.6E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	2.5E-07	2.2E-07	4.8E-08	5.2E-07
525	ONSITE	440191.4	3762238.44	440191.38, 3762238.44	8.64125	17.2118	0.04595	6.46981	1.43E-04	2.43E-05	1.15E-04	5.32E-04	8.14E-04	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	2.2E-07	1.9E-07	4.2E-08	4.6E-07
526	ONSITE	440241.4	3762238.44	440241.38, 3762238.44	7.32189	12.18977	0.02485	6.52231	1.21E-04	1.72E-05	6.21E-05	5.37E-04	7.37E-04	2.6E-07	7.7E-07	6.1E-07	5.3E-07	2.4E-07	0.0E+00	0.0E+00	2.0E-07	1.7E-07	3.8E-08	4.1E-07
527	ONSITE	440291.4	3762238.44	440291.38, 3762238.44	6.46865	9.66767	0.01682	7.07645	1.07E-04	1.36E-05	4.20E-05	5.82E-04	7.45E-04	2.6E-07	7.8E-07	6.1E-07	5.3E-07	2.4E-07	0.0E+00	0.0E+00	2.0E-07	1.8E-07	3.8E-08	4.2E-07
528	ONSITE	440341.4	3762238.44	440341.38, 3762238.44	5.75147	8.00589	0.01292	9.26496	9.53E-05	1.13E-05	3.23E-05	7.62E-04	9.01E-04	3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	0.0E+00	0.0E+00	2.5E-07	2.1E-07	4.6E-08	5.0E-07

Phase 2 Construction

Construction Duration (days)		
2025	2026	Total
153	247	400

Construction

PM10 Exhaust Onsite [Group: P2Onsite]

Year	Tons/Year	g/s	Weighted Average On-Site Rate	
2025	0.05442272	0.011204	7.63E-03	SLINE5
2026	4.25E-02	0.005422		

Group: P2OFFSITE	Trips		Miles		Weighted
	Vendor	Hauling	Vendor	Hauling	Trip length
Year	7588.8	0	10.2	20	10.20
2025	16891.2	0	10.2	20	10.20
2026					

PM10 Exhaust Off-Site

Group: P2OFFSITE	Tons/Year	g/s	g/s per mile	Weighted Average Off-Site Rate
2025	0.001690431	0.000348	3.412E-05	4.23E-05
2026	3.79E-03	0.000483	4.73491E-05	

Group: P2OFFSITE	Speed (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)	
Euclid Ave n/o Edison- 50%	45	1364.6	0.85	4.23E-05	3.59E-05	SLINE2
Edison Ave e/o Euclid - 30%	50	1264.1	0.79	4.23E-05	3.32E-05	SLINE3
Euclid Ave s/o Edison - 20%	45	619	0.38	4.23E-05	1.63E-05	SLINE4
					8.53E-05	

	Plume Width (m)	Segment Length (m)	Source Area (m2)	AERMOD Unitized Emissions Rate (g/s)	
Euclid Ave n/o Edison- 50%	15	1370.3	20554.5	0.498697121	SLINE2
Edison Ave e/o Euclid - 30%	9	1264.1	11376.9	0.276028474	SLINE3
Euclid Ave s/o Edison - 20%	15	619	9285	0.225274405	SLINE4
			41216.4	1	

	On-Site Construction Emissions tons/yr		Off-Site Construction Emissions tons/yr		
Year	Phase	Exhaust PM10	Year	Phase	Exhaust PM10
2025	Demo	0.009174817	2025	Demo	0.00E+00
2025	Site Prep	0.006827763	2025	Site Prep	0.00E+00
2025	Grading	0.018524623	2025	Grading	0.00E+00
2025	Construction	0.019895517	2025	Construction	0.001690431
2025	Total	5.44E-02		Total	1.69E-03
2026	Construction	0.039082504	2026	Construction	0.00378709
2026	Paving	0.003198657	2026	Paving	0.00E+00
2026	Coating	0.000231534	2026	Coating	0
2026	Total	4.25E-02		Total	3.79E-03

Phase 2 Construction Mitigated

Construction Duration (days)		
2025	2026	Total
153	247	400

Construction

	PM10 Exhaust Onsite [Group: P2Onsite]			
Year	Tons/Year	g/s	Weighted Average On-Site Rate	
2025	0.009713415	0.002000	1.23E-03	SLINE5
2026	5.86E-03	0.000748		

Group: P2OFFSITE	Trips		Miles		Weighted
	Vendor	Hauling	Vendor	Hauling	Trip length
Year	7588.8	0	10.2	20	10.20
2025	16891.2	0	10.2	20	10.20
2026					

	PM10 Exhaust Off-Site			
Group: P2OFFSITE	Tons/Year	g/s	g/s per mile	Weighted Average Off-Site Rate
2025	0.001690431	0.000348	3.412E-05	4.23E-05
2026	3.79E-03	0.000483	4.73491E-05	

Group: P2OFFSITE	Speed	Length (meters)	Length (Miles)	Emissions (g/sec per mile)	Emission Rate (g/sec)	
Euclid Ave n/o Edison- 50%	45	1364.6	0.85	4.23E-05	3.59E-05	SLINE2
Edison Ave e/o Euclid - 30%	50	1264.1	0.79	4.23E-05	3.32E-05	SLINE3
Euclid Ave s/o Edison - 20%	45	619	0.38	4.23E-05	1.63E-05	SLINE4
					8.53E-05	

	Plume Width (m)	Segment Length (m)	Source Area (m2)	AERMOD Unitized Emissions Rate (g/s)	
Euclid Ave n/o Edison- 50%	15	1370.3	20554.5	0.498697121	SLINE2
Edison Ave e/o Euclid - 30%	9	1264.1	11376.9	0.276028474	SLINE3
Euclid Ave s/o Edison - 20%	15	619	9285	0.225274405	SLINE4
			41216.4	1	

	On-Site Construction Emissions tons/yr		Off-Site Construction Emissions		tons/yr
Year	Phase	Exhaust PM10	Year	Phase	Exhaust PM10
2025	Demo	0.001581729	2025	Demo	0.00E+00
2025	Site Prep	0.001493993	2025	Site Prep	0.00E+00
2025	Grading	0.004650078	2025	Grading	0.00E+00
2025	Construction	0.001987615	2025	Construction	0.001690431
2025	Total	9.71E-03		Total	1.69E-03
2026	Construction	0.004452875	2026	Construction	0.00378709
2026	Paving	0.000773505	2026	Paving	0.00E+00
2026	Coating	0.000636719	2026	Coating	0
2026	Total	5.86E-03		Total	3.79E-03

Phase 2 Operations

	Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)	Plume Width (m)	Segment Length (m)	Source Area (m2)	Unitized Emissions Rate (g/s)	
Group: P2OnRoad													
SLINE19	Schaefer betwn Euclid & Sultana - 5%	45	44	0.01062	458.9	0.29	1.34E-01	1.55E-06	13	458.9	5965.7	0.241208936	SLINE19
SLINE20	Sultana btwn Schaefer & Edison - 20%	45	176	0.01062	792.3	0.49	9.23E-01	1.07E-05	12	792.3	9507.6	0.384417265	SLINE20
SLINE21	Edison btwn Euclid & Sultana - 0%	45	0	0.01062	474.9	0.30	0.00E+00	0.00E+00					
SLINE22	Edison e/o Sultana - 20%	45	176	0.01062	771.6	0.48	8.98E-01	1.04E-05	12	771.6	9259.2	0.3743738	SLINE22
SLINE23	Euclid n/o Schaefer - 0%	45	441	0.01062	595.1	0.37	1.73E+00	2.00E-05					
SLINE24	Euclid btwn Schaefer & Edison - 0%	45	0	0.01062	798	0.50	0.00E+00	0.00E+00					
SLINE25	Euclid s/o Edison - 0%	45	0	0.01062	615.8	0.38	0.00E+00	0.00E+00					
								4.27E-05	Total Area (m^2)		24732.5	1	
Group: P2Onsite													
SLINE40	Onsite - Driveway 15	15	99	0.01532	339.2	0.21	3.20E-01	3.70E-06					

Group: P2	Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Idling Emission Rate (g/sec)	Forklift (PM_{10}) (g/sec)	Hostler (PM_{10}) (g/sec)	Total Emission Rate (g/sec)	AERMOD Unitized Emissions Rate (g/s)	
SLINE41	PA 2	Idle	50	0.00175495	0.25	2.17E-02	2.51E-07	8.33E-04	7.13E-04	1.55E-03	1.00E+00	SLINE41

Unitized emission rates (1 g/s) were used for source groups in AERMOD.
Truck routes were composed of several street segments, thus the emission rate for each segment needed to sum to 1.0.
The emission rate for each segment was based on the area of the segment (segment length x segment width) divided by the total area of the route (sum of each segment's area).

	Generators	# of Generators	Emission factor (tons/yr)	Emission factor (g/sec)	AERMOD Unitized Emissions Rate (g/s)
AREA4	PA 2	1	0.006200	6.20E-03	1.0000

* variable emissions - 1 hour a week (asumed Monday 1pm)

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

	Project Mix	Idle (g/trip)	15 mph (g/mi)	45 mph (g/mi)	50 mph (g/mi)	55 mph (g/mi)	25 mph (g/mi)
HHDT	0.63	0.002072865	0.008463523	0.011683635	0.014933571	0.01913136	0.006295
LHDT2	0.17	0.001296389	0.032525194	0.012864866	0.011482486	0.010926727	0.025999
MHDT	0.21	0.001160756	0.013447241	0.00559777	0.006513224	0.007925989	0.006816
Weighted Rates	1.00	0.00175495	0.01350377	0.010622761	0.012618185	0.015448144	0.009687

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	PM10_IDLEX	
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Gasoline	3.869766832	177.2217014	77.42629477	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Diesel	14693.60242	1799109.244	221962.6286	0.031647093	465.0098061
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Electricity	109.5985203	11409.19414	1368.406052	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Natural Gas	2560.5176	164963.5875	14771.25816	0.011210497	28.70467597
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Gasoline	2823.949841	99825.11713	42072.64494	0	0
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Diesel	4888.887446	187525.0486	61496.05385	0.027595541	134.9114939
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Electricity	37.58571717	2461.549606	498.4225452	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Gasoline	1427.423114	76828.767	28559.88167	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Diesel	15347.54129	658670.5437	188328.1928	0.016417979	251.9756033
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Electricity	133.1585562	6928.399641	1697.434032	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Natural Gas	208.419151	9895.426472	1924.329451	0.019107774	3.98242606

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	PM10_RUNEX	
San Bernardino (SC)	2025	HHDT	Aggregate	15	Gasoline	0.118162883	0.007884431	0.000931647
San Bernardino (SC)	2025	HHDT	Aggregate	15	Diesel	759.0544009	0.009033766	6.857120092
San Bernardino (SC)	2025	HHDT	Aggregate	15	Electricity	5.068930343	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	15	Natural Gas	98.16259212	0.00449178	0.440924795
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Gasoline	122.1233391	0.001920008	0.234477745
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Diesel	147.9455374	0.058284493	8.622930625
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Electricity	2.25565699	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Gasoline	226.7136449	0.002925573	0.663267253
San Bernardino (SC)	2025	MHDT	Aggregate	15	Diesel	1998.933367	0.014926739	29.83755763
San Bernardino (SC)	2025	MHDT	Aggregate	15	Electricity	20.76597946	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Natural Gas	27.21506117	0.00268969	0.073200084
San Bernardino (SC)	2025	HHDT	Aggregate	45	Gasoline	11.74333549	0.002579401	0.030290771
San Bernardino (SC)	2025	HHDT	Aggregate	45	Diesel	85279.568	0.012955765	1104.862059
San Bernardino (SC)	2025	HHDT	Aggregate	45	Electricity	552.666234	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	45	Natural Gas	10078.39503	0.001570649	15.82962225
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Gasoline	8072.91279	0.000766451	6.187492893
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Diesel	12401.25183	0.02092055	259.4410083
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Electricity	173.4265238	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Gasoline	6637.641985	0.000776126	5.151644453
San Bernardino (SC)	2025	MHDT	Aggregate	45	Diesel	59373.88351	0.006265301	371.9952742
San Bernardino (SC)	2025	MHDT	Aggregate	45	Electricity	617.9940825	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Natural Gas	846.3436864	0.000670451	0.56743192
San Bernardino (SC)	2025	HHDT	Aggregate	50	Gasoline	10.91062341	0.002545999	0.027778441
San Bernardino (SC)	2025	HHDT	Aggregate	50	Diesel	76946.16855	0.01673425	1287.636408
San Bernardino (SC)	2025	HHDT	Aggregate	50	Electricity	510.0786397	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	50	Natural Gas	9815.345123	0.001607204	15.77526525
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Gasoline	6544.063868	0.000773933	5.064664436
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Diesel	9469.302452	0.019046883	180.3606935
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Electricity	135.1710724	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Gasoline	5225.043967	0.000749922	3.918376752
San Bernardino (SC)	2025	MHDT	Aggregate	50	Diesel	47929.23776	0.007291948	349.4974905
San Bernardino (SC)	2025	MHDT	Aggregate	50	Electricity	496.5711073	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Natural Gas	673.6276848	0.000611104	0.411656728
San Bernardino (SC)	2025	HHDT	Aggregate	55	Gasoline	11.31428545	0.002638565	0.029853475
San Bernardino (SC)	2025	HHDT	Aggregate	55	Diesel	81110.40296	0.021449294	1739.760917
San Bernardino (SC)	2025	HHDT	Aggregate	55	Electricity	536.7421379	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	55	Natural Gas	10229.92816	0.001775088	18.15902271
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Gasoline	5690.782566	0.000821568	4.675366903
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Diesel	7920.61072	0.018345198	145.3051743
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Electricity	114.6333779	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Gasoline	4746.274955	0.000764279	3.627479682
San Bernardino (SC)	2025	MHDT	Aggregate	55	Diesel	43669.60615	0.008889251	388.1900965
San Bernardino (SC)	2025	MHDT	Aggregate	55	Electricity	452.3652397	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Natural Gas	615.5515728	0.000634302	0.39044535
San Bernardino (SC)	2025	HHDT	Aggregate	25	Gasoline	2.473517863	0.004446662	0.010998897
San Bernardino (SC)	2025	HHDT	Aggregate	25	Diesel	21903.60147	0.006680618	146.3295862
San Bernardino (SC)	2025	HHDT	Aggregate	25	Electricity	136.5701971	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	25	Natural Gas	2167.847246	0.002800501	6.071058323
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Gasoline	2828.981097	0.001209778	3.422438251
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Diesel	4989.856493	0.040400759	201.5939915
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Electricity	66.74866867	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Gasoline	2809.850259	0.001518166	4.265819058
San Bernardino (SC)	2025	MHDT	Aggregate	25	Diesel	24478.92669	0.007569371	185.2900726
San Bernardino (SC)	2025	MHDT	Aggregate	25	Electricity	256.0057025	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Natural Gas	353.6880205	0.00171221	0.605588215

PHASE 2 CONSTRUCTION

Unmitigated	
Onsite	Offsite
7.63E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	0.08222	0.04787	6.28E-04	4.09E-06	6.32E-04
2	1	439943.4	3761716.33	439943.36, 3761716.33	0.14594	0.0766	1.11E-03	6.54E-06	1.12E-03
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	0.02839	0.04232	2.17E-04	3.61E-06	2.20E-04
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	0.02927	0.04496	2.23E-04	3.84E-06	2.27E-04
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	0.03049	0.04816	2.33E-04	4.11E-06	2.37E-04
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	0.03158	0.05154	2.41E-04	4.40E-06	2.45E-04
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	0.03278	0.05544	2.50E-04	4.73E-06	2.55E-04
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	0.03413	0.05998	2.61E-04	5.12E-06	2.66E-04
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	0.03561	0.06521	2.72E-04	5.57E-06	2.77E-04
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	0.03692	0.07085	2.82E-04	6.05E-06	2.88E-04
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	0.03818	0.07716	2.91E-04	6.58E-06	2.98E-04
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	0.03919	0.08392	2.99E-04	7.16E-06	3.06E-04
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	0.04012	0.09132	3.06E-04	7.79E-06	3.14E-04
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	0.04115	0.09999	3.14E-04	8.53E-06	3.23E-04
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	0.04222	0.10997	3.22E-04	9.38E-06	3.32E-04
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	0.04321	0.12095	3.30E-04	1.03E-05	3.40E-04
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	0.04417	0.1328	3.37E-04	1.13E-05	3.49E-04
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	0.02698	0.04024	2.06E-04	3.43E-06	2.09E-04
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	0.02786	0.04262	2.13E-04	3.64E-06	2.16E-04
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	0.02894	0.0455	2.21E-04	3.88E-06	2.25E-04
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	0.02986	0.04841	2.28E-04	4.13E-06	2.32E-04
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	0.03092	0.0518	2.36E-04	4.42E-06	2.40E-04
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	0.0321	0.05571	2.45E-04	4.75E-06	2.50E-04
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	0.03307	0.05967	2.52E-04	5.09E-06	2.58E-04
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	0.03406	0.0641	2.60E-04	5.47E-06	2.65E-04
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	0.03522	0.06932	2.69E-04	5.92E-06	2.75E-04
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	0.03619	0.07481	2.76E-04	6.38E-06	2.83E-04
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	0.0369	0.08032	2.82E-04	6.85E-06	2.89E-04
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	0.03766	0.08659	2.87E-04	7.39E-06	2.95E-04
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	0.03841	0.09348	2.93E-04	7.98E-06	3.01E-04
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	0.0391	0.1008	2.98E-04	8.60E-06	3.07E-04
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	0.03982	0.10844	3.04E-04	9.25E-06	3.13E-04
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	0.02572	0.03824	1.96E-04	3.26E-06	2.00E-04
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	0.02655	0.04041	2.03E-04	3.45E-06	2.06E-04
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	0.0275	0.04297	2.10E-04	3.67E-06	2.14E-04
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	0.02827	0.04541	2.16E-04	3.88E-06	2.20E-04
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	0.0292	0.04835	2.23E-04	4.13E-06	2.27E-04
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	0.03021	0.05167	2.31E-04	4.41E-06	2.35E-04
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	0.03099	0.05488	2.37E-04	4.68E-06	2.41E-04
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	0.03183	0.05849	2.43E-04	4.99E-06	2.48E-04
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	0.03267	0.06248	2.49E-04	5.33E-06	2.55E-04
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	0.03349	0.06685	2.56E-04	5.70E-06	2.61E-04
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	0.03397	0.07081	2.59E-04	6.04E-06	2.65E-04
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	0.03438	0.0749	2.62E-04	6.39E-06	2.69E-04
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	0.03488	0.07956	2.66E-04	6.79E-06	2.73E-04
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	0.03548	0.08475	2.71E-04	7.23E-06	2.78E-04
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	0.03612	0.09014	2.76E-04	7.69E-06	2.83E-04
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	0.02454	0.03628	1.87E-04	3.10E-06	1.90E-04
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	0.02529	0.03825	1.93E-04	3.26E-06	1.96E-04
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	0.02611	0.04047	1.99E-04	3.45E-06	2.03E-04
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	0.02686	0.04271	2.05E-04	3.64E-06	2.09E-04
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	0.02764	0.04518	2.11E-04	3.86E-06	2.15E-04
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	0.0284	0.04781	2.17E-04	4.08E-06	2.21E-04
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	0.02904	0.05041	2.22E-04	4.30E-06	2.26E-04
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	0.02973	0.05334	2.27E-04	4.55E-06	2.31E-04
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	0.03041	0.05651	2.32E-04	4.82E-06	2.37E-04
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	0.03105	0.05989	2.37E-04	5.11E-06	2.42E-04
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	0.03144	0.06299	2.40E-04	5.38E-06	2.45E-04
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	0.03172	0.06588	2.42E-04	5.62E-06	2.48E-04
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	0.03207	0.06898	2.45E-04	5.89E-06	2.51E-04
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	0.03247	0.07225	2.48E-04	6.17E-06	2.54E-04

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	0.0E+00	0.0E+00	2.7E-08	0.0E+00	0.0E+00	2.7E-08
3.9E-07	1.2E-06	9.3E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	4.8E-08	0.0E+00	0.0E+00	4.8E-08
7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	0.0E+00	0.0E+00	9.4E-09	0.0E+00	0.0E+00	9.4E-09
7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	0.0E+00	0.0E+00	9.7E-09	0.0E+00	0.0E+00	9.7E-09
8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
8.5E-08	2.6E-07	2.0E-07	1.8E-07	7.9E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.0E-07	2.4E-07	2.1E-07	9.2E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.8E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.1E-07	3.5E-07	2.7E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.2E-07	3.6E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
1.2E-07	3.6E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	0.0E+00	0.0E+00	9.0E-09	0.0E+00	0.0E+00	9.0E-09
7.5E-08	2.3E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	9.3E-09	0.0E+00	0.0E+00	9.3E-09
7.8E-08	2.3E-07	1.9E-07	1.6E-07	7.2E-08	0.0E+00	0.0E+00	9.6E-09	0.0E+00	0.0E+00	9.6E-09
8.0E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	9.9E-09	0.0E+00	0.0E+00	9.9E-09
8.3E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
8.6E-08	2.6E-07	2.1E-07	1.8E-07	8.0E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
8.9E-08	2.7E-07	2.1E-07	1.8E-07	8.3E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.5E-08	2.9E-07	2.3E-07	2.0E-07	8.8E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.0E-07	2.4E-07	2.1E-07	9.3E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.1E-07	2.4E-07	2.1E-07	9.5E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.0E-07	3.1E-07	2.5E-07	2.2E-07	9.7E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.9E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
6.9E-08	2.1E-07	1.6E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	8.5E-09	0.0E+00	0.0E+00	8.5E-09
7.1E-08	2.2E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	8.8E-09	0.0E+00	0.0E+00	8.8E-09
7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	9.1E-09	0.0E+00	0.0E+00	9.1E-09
7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	0.0E+00	0.0E+00	9.4E-09	0.0E+00	0.0E+00	9.4E-09
7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	0.0E+00	0.0E+00	9.7E-09	0.0E+00	0.0E+00	9.7E-09
8.1E-08	2.5E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
8.4E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
8.6E-08	2.6E-07	2.0E-07	1.8E-07	8.0E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.0E-08	2.7E-07	2.2E-07	1.9E-07	8.4E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.3E-08	2.8E-07	2.2E-07	1.9E-07	8.6E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
9.5E-08	2.9E-07	2.3E-07	2.0E-07	8.8E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	0.0E+00	0.0E+00	8.2E-09	0.0E+00	0.0E+00	8.2E-09
6.8E-08	2.1E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	8.4E-09	0.0E+00	0.0E+00	8.4E-09
7.0E-08	2.1E-07	1.7E-07	1.4E-07	6.5E-08	0.0E+00	0.0E+00	8.7E-09	0.0E+00	0.0E+00	8.7E-09
7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	0.0E+00	0.0E+00	8.9E-09	0.0E+00	0.0E+00	8.9E-09
7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	9.2E-09	0.0E+00	0.0E+00	9.2E-09
7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	0.0E+00	0.0E+00	9.5E-09	0.0E+00	0.0E+00	9.5E-09
7.8E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	0.0E+00	0.0E+00	9.7E-09	0.0E+00	0.0E+00	9.7E-09
8.0E-08	2.4E-07	1.9E-07	1.7E-07	7.4E-08	0.0E+00	0.0E+00	9.9E-09	0.0E+00	0.0E+00	9.9E-09
8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
8.4E-08	2.5E-07	2.0E-07	1.7E-07	7.8E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
8.5E-08	2.6E-07	2.0E-07	1.8E-07	7.9E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
8.6E-08	2.6E-07	2.0E-07	1.8E-07	8.0E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
8.7E-08	2.6E-07	2.1E-07	1.8E-07	8.1E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08

PHASE 2 CONSTRUCTION

Unmitigated	
Onsite	Offsite
7.63E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Total
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	0.03298	0.07575	2.58E-04
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	0.02337	0.03433	1.81E-04
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	0.02392	0.03579	1.86E-04
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	0.0246	0.03765	1.91E-04
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	0.02532	0.03975	1.97E-04
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	0.02609	0.04204	2.03E-04
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	0.02661	0.04399	2.07E-04
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	0.02713	0.04606	2.11E-04
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	0.02763	0.04827	2.15E-04
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	0.02828	0.05107	2.20E-04
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	0.02871	0.05351	2.24E-04
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	0.0291	0.05602	2.27E-04
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	0.02932	0.05809	2.29E-04
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	0.02948	0.05963	2.30E-04
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	0.02984	0.06205	2.33E-04
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	0.03034	0.06472	2.37E-04
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	0.0223	0.03244	1.73E-04
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	0.02281	0.03374	1.77E-04
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	0.02347	0.03558	1.82E-04
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	0.02405	0.03727	1.87E-04
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	0.02468	0.03919	1.92E-04
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	0.02513	0.04082	1.95E-04
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	0.02554	0.04245	1.99E-04
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	0.02592	0.04416	2.02E-04
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	0.02637	0.04623	2.05E-04
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	0.02678	0.04837	2.09E-04
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	0.02704	0.05013	2.11E-04
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	0.02723	0.05164	2.12E-04
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	0.02731	0.05246	2.13E-04
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	0.02762	0.05422	2.15E-04
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	0.02804	0.05623	2.19E-04
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	0.0213	0.03062	1.65E-04
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	0.02177	0.03181	1.69E-04
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	0.02236	0.03346	1.74E-04
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	0.02277	0.03469	1.77E-04
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	0.02327	0.03624	1.81E-04
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	0.02361	0.03744	1.83E-04
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	0.02394	0.03871	1.86E-04
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	0.02435	0.04045	1.89E-04
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	0.02468	0.04208	1.92E-04
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	0.02502	0.04377	1.95E-04
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	0.02517	0.04482	1.96E-04
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	0.02539	0.04612	1.98E-04
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	0.02549	0.04689	1.99E-04
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	0.02573	0.04817	2.01E-04
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	0.02608	0.04966	2.03E-04
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	0.02036	0.02888	1.58E-04
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	0.02078	0.02995	1.61E-04
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	0.0213	0.03141	1.65E-04
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	0.02169	0.03256	1.68E-04
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	0.02204	0.03367	1.71E-04
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	0.02236	0.03482	1.74E-04
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	0.02261	0.03581	1.76E-04
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	0.02293	0.0372	1.78E-04
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	0.02316	0.03834	1.80E-04
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	0.0234	0.03961	1.82E-04
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	0.02355	0.04049	1.83E-04
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	0.0237	0.04132	1.84E-04
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	0.02383	0.04212	1.86E-04
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	0.02406	0.04315	1.87E-04
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	0.0244	0.04438	1.90E-04

Discrete Receptor ID		Residential Dose Onsite					Risk by Age Group Offsite					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
62	UCART1	8.9E-08	2.7E-07	2.1E-07	1.8E-07	8.3E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
63	UCART1	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	7.8E-09	0.0E+00	0.0E+00	7.8E-09
64	UCART1	6.4E-08	1.9E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	7.9E-09	0.0E+00	0.0E+00	7.9E-09
65	UCART1	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	0.0E+00	0.0E+00	8.2E-09	0.0E+00	0.0E+00	8.2E-09
66	UCART1	6.8E-08	2.1E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	8.4E-09	0.0E+00	0.0E+00	8.4E-09
67	UCART1	7.0E-08	2.1E-07	1.7E-07	1.4E-07	6.5E-08	0.0E+00	0.0E+00	8.7E-09	0.0E+00	0.0E+00	8.7E-09
68	UCART1	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	8.9E-09	0.0E+00	0.0E+00	8.9E-09
69	UCART1	7.3E-08	2.2E-07	1.7E-07	1.5E-07	6.8E-08	0.0E+00	0.0E+00	9.0E-09	0.0E+00	0.0E+00	9.0E-09
70	UCART1	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	9.2E-09	0.0E+00	0.0E+00	9.2E-09
71	UCART1	7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.1E-08	0.0E+00	0.0E+00	9.4E-09	0.0E+00	0.0E+00	9.4E-09
72	UCART1	7.7E-08	2.3E-07	1.8E-07	1.6E-07	7.2E-08	0.0E+00	0.0E+00	9.6E-09	0.0E+00	0.0E+00	9.6E-09
73	UCART1	7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	0.0E+00	0.0E+00	9.7E-09	0.0E+00	0.0E+00	9.7E-09
74	UCART1	7.9E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	0.0E+00	0.0E+00	9.8E-09	0.0E+00	0.0E+00	9.8E-09
75	UCART1	8.0E-08	2.4E-07	1.9E-07	1.6E-07	7.4E-08	0.0E+00	0.0E+00	9.9E-09	0.0E+00	0.0E+00	9.9E-09
76	UCART1	8.1E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
77	UCART1	8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
78	UCART1	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.6E-08	0.0E+00	0.0E+00	7.4E-09	0.0E+00	0.0E+00	7.4E-09
79	UCART1	6.1E-08	1.9E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	7.6E-09	0.0E+00	0.0E+00	7.6E-09
80	UCART1	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	7.8E-09	0.0E+00	0.0E+00	7.8E-09
81	UCART1	6.5E-08	2.0E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	8.0E-09	0.0E+00	0.0E+00	8.0E-09
82	UCART1	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.2E-08	0.0E+00	0.0E+00	8.2E-09	0.0E+00	0.0E+00	8.2E-09
83	UCART1	6.8E-08	2.0E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	8.4E-09	0.0E+00	0.0E+00	8.4E-09
84	UCART1	6.9E-08	2.1E-07	1.6E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	8.5E-09	0.0E+00	0.0E+00	8.5E-09
85	UCART1	7.0E-08	2.1E-07	1.7E-07	1.4E-07	6.5E-08	0.0E+00	0.0E+00	8.6E-09	0.0E+00	0.0E+00	8.6E-09
86	UCART1	7.1E-08	2.1E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	8.8E-09	0.0E+00	0.0E+00	8.8E-09
87	UCART1	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	0.0E+00	0.0E+00	8.9E-09	0.0E+00	0.0E+00	8.9E-09
88	UCART1	7.3E-08	2.2E-07	1.7E-07	1.5E-07	6.8E-08	0.0E+00	0.0E+00	9.0E-09	0.0E+00	0.0E+00	9.0E-09
89	UCART1	7.3E-08	2.2E-07	1.8E-07	1.5E-07	6.8E-08	0.0E+00	0.0E+00	9.1E-09	0.0E+00	0.0E+00	9.1E-09
90	UCART1	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.8E-08	0.0E+00	0.0E+00	9.1E-09	0.0E+00	0.0E+00	9.1E-09
91	UCART1	7.5E-08	2.3E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	9.2E-09	0.0E+00	0.0E+00	9.2E-09
92	UCART1	7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.0E-08	0.0E+00	0.0E+00	9.4E-09	0.0E+00	0.0E+00	9.4E-09
93	UCART1	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	7.1E-09	0.0E+00	0.0E+00	7.1E-09
94	UCART1	5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	7.2E-09	0.0E+00	0.0E+00	7.2E-09
95	UCART1	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.6E-08	0.0E+00	0.0E+00	7.4E-09	0.0E+00	0.0E+00	7.4E-09
96	UCART1	6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	7.6E-09	0.0E+00	0.0E+00	7.6E-09
97	UCART1	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	7.7E-09	0.0E+00	0.0E+00	7.7E-09
98	UCART1	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	7.9E-09	0.0E+00	0.0E+00	7.9E-09
99	UCART1	6.4E-08	1.9E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	8.0E-09	0.0E+00	0.0E+00	8.0E-09
100	UCART1	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	0.0E+00	0.0E+00	8.1E-09	0.0E+00	0.0E+00	8.1E-09
101	UCART1	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.2E-08	0.0E+00	0.0E+00	8.2E-09	0.0E+00	0.0E+00	8.2E-09
102	UCART1	6.7E-08	2.0E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	8.3E-09	0.0E+00	0.0E+00	8.3E-09
103	UCART1	6.8E-08	2.0E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	8.4E-09	0.0E+00	0.0E+00	8.4E-09
104	UCART1	6.8E-08	2.1E-07	1.6E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	8.5E-09	0.0E+00	0.0E+00	8.5E-09
105	UCART1	6.9E-08	2.1E-07	1.6E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	8.5E-09	0.0E+00	0.0E+00	8.5E-09
106	UCART1	6.9E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	8.6E-09	0.0E+00	0.0E+00	8.6E-09
107	UCART1	7.0E-08	2.1E-07	1.7E-07	1.5E-07	6.5E-08	0.0E+00	0.0E+00	8.7E-09	0.0E+00	0.0E+00	8.7E-09
108	UCART1	5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	6.8E-09	0.0E+00	0.0E+00	6.8E-09
109	UCART1	5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	0.0E+00	0.0E+00	6.9E-09	0.0E+00	0.0E+00	6.9E-09
110	UCART1	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	7.1E-09	0.0E+00	0.0E+00	7.1E-09
111	UCART1	5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	7.2E-09	0.0E+00	0.0E+00	7.2E-09
112	UCART1	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	0.0E+00	0.0E+00	7.3E-09	0.0E+00	0.0E+00	7.3E-09
113	UCART1	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.6E-08	0.0E+00	0.0E+00	7.4E-09	0.0E+00	0.0E+00	7.4E-09
114	UCART1	6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.6E-08	0.0E+00	0.0E+00	7.5E-09	0.0E+00	0.0E+00	7.5E-09
115	UCART1	6.2E-08	1.9E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	7.6E-09	0.0E+00	0.0E+00	7.6E-09
116	UCART1	6.2E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	7.7E-09	0.0E+00	0.0E+00	7.7E-09
117	UCART1	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	7.8E-09	0.0E+00	0.0E+00	7.8E-09
118	UCART1	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	7.8E-09	0.0E+00	0.0E+00	7.8E-09
119	UCART1	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	7.9E-09	0.0E+00	0.0E+00	7.9E-09
120	UCART1	6.4E-08	1.9E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	7.9E-09	0.0E+00	0.0E+00	7.9E-09
121	UCART1	6.5E-08	2.0E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	8.0E-09	0.0E+00	0.0E+00	8.0E-09
122	UCART1	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	0.0E+00	0.0E+00	8.1E-09	0.0E+00	0.0E+00	8.1E-09

PHASE 2 CONSTRUCTION

Unmitigated	
Onsite	Offsite
7.63E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Residential Dose Onsite	Residential Dose Offsite	Unmitigated Total
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	0.03487	0.05221	2.66E-04	4.46E-06	2.71E-04
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	0.03658	0.05656	2.79E-04	4.83E-06	2.84E-04
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	0.0385	0.06171	2.94E-04	5.27E-06	2.99E-04
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	0.04094	0.06813	3.13E-04	5.81E-06	3.18E-04
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	0.04317	0.07521	3.30E-04	6.42E-06	3.36E-04
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	0.04543	0.08349	3.47E-04	7.13E-06	3.54E-04
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	0.04802	0.09376	3.67E-04	8.00E-06	3.75E-04
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	0.05049	0.1059	3.85E-04	9.04E-06	3.94E-04
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	0.03323	0.05002	2.54E-04	4.27E-06	2.58E-04
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	0.03483	0.05409	2.66E-04	4.62E-06	2.70E-04
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	0.03642	0.05865	2.78E-04	5.01E-06	2.83E-04
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	0.03837	0.06414	2.93E-04	5.47E-06	2.98E-04
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	0.04038	0.07051	3.08E-04	6.02E-06	3.14E-04
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	0.04231	0.07777	3.23E-04	6.64E-06	3.30E-04
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	0.04455	0.0866	3.40E-04	7.39E-06	3.47E-04
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	0.04663	0.09691	3.56E-04	8.27E-06	3.64E-04
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	0.03156	0.04771	2.41E-04	4.07E-06	2.45E-04
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	0.03294	0.05135	2.51E-04	4.38E-06	2.56E-04
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	0.03435	0.05545	2.62E-04	4.73E-06	2.67E-04
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	0.03578	0.06015	2.73E-04	5.13E-06	2.78E-04
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	0.03792	0.06602	2.89E-04	5.63E-06	2.95E-04
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	0.03953	0.07224	3.02E-04	6.16E-06	3.08E-04
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	0.04141	0.07972	3.16E-04	6.80E-06	3.23E-04
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	0.04303	0.08809	3.28E-04	7.52E-06	3.36E-04
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	0.02994	0.04549	2.29E-04	3.88E-06	2.32E-04
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	0.03104	0.04861	2.37E-04	4.15E-06	2.41E-04
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	0.03223	0.05221	2.46E-04	4.46E-06	2.50E-04
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	0.03352	0.05626	2.56E-04	4.80E-06	2.61E-04
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	0.03499	0.06105	2.67E-04	5.21E-06	2.72E-04
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	0.03656	0.06654	2.79E-04	5.68E-06	2.85E-04
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	0.03816	0.07281	2.91E-04	6.21E-06	2.98E-04
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	0.03952	0.07965	3.02E-04	6.80E-06	3.08E-04
155	UCART3	439196	3762392.48	439196.01, 3762392.48	0.05095	0.05959	3.89E-04	5.09E-06	3.94E-04
156	UCART3	439246	3762392.48	439246.01, 3762392.48	0.05546	0.06561	4.23E-04	5.60E-06	4.29E-04
157	UCART3	439296	3762392.48	439296.01, 3762392.48	0.06071	0.07275	4.63E-04	6.21E-06	4.70E-04
158	UCART3	439346	3762392.48	439346.01, 3762392.48	0.06686	0.08132	5.10E-04	6.94E-06	5.17E-04
159	UCART3	439396	3762392.48	439396.01, 3762392.48	0.07415	0.09176	5.66E-04	7.83E-06	5.74E-04
160	UCART3	439446	3762392.48	439446.01, 3762392.48	0.08288	0.10464	6.33E-04	8.93E-06	6.42E-04
161	UCART3	439496	3762392.48	439496.01, 3762392.48	0.09334	0.12082	7.13E-04	1.03E-05	7.23E-04
162	UCART3	439546	3762392.48	439546.01, 3762392.48	0.10602	0.14155	8.09E-04	1.21E-05	8.21E-04
163	UCART3	439196	3762442.48	439196.01, 3762442.48	0.04982	0.06026	3.80E-04	5.14E-06	3.85E-04
164	UCART3	439246	3762442.48	439246.01, 3762442.48	0.0541	0.06641	4.13E-04	5.67E-06	4.19E-04
165	UCART3	439296	3762442.48	439296.01, 3762442.48	0.05901	0.07372	4.50E-04	6.29E-06	4.57E-04
166	UCART3	439346	3762442.48	439346.01, 3762442.48	0.06477	0.08251	4.94E-04	7.04E-06	5.01E-04
167	UCART3	439396	3762442.48	439396.01, 3762442.48	0.07152	0.09322	5.46E-04	7.96E-06	5.54E-04
168	UCART3	439446	3762442.48	439446.01, 3762442.48	0.07949	0.10647	6.07E-04	9.09E-06	6.16E-04
169	UCART3	439496	3762442.48	439496.01, 3762442.48	0.08901	0.12311	6.79E-04	1.05E-05	6.90E-04
170	UCART3	439546	3762442.48	439546.01, 3762442.48	0.10044	0.14444	7.67E-04	1.23E-05	7.79E-04
171	UCART3	439196	3762492.48	439196.01, 3762492.48	0.04854	0.06063	3.71E-04	5.17E-06	3.76E-04
172	UCART3	439246	3762492.48	439246.01, 3762492.48	0.05258	0.06684	4.01E-04	5.70E-06	4.07E-04
173	UCART3	439296	3762492.48	439296.01, 3762492.48	0.05717	0.07423	4.36E-04	6.33E-06	4.43E-04
174	UCART3	439346	3762492.48	439346.01, 3762492.48	0.06248	0.08312	4.77E-04	7.09E-06	4.84E-04
175	UCART3	439396	3762492.48	439396.01, 3762492.48	0.06869	0.09397	5.24E-04	8.02E-06	5.32E-04
176	UCART3	439446	3762492.48	439446.01, 3762492.48	0.07597	0.10738	5.80E-04	9.16E-06	5.89E-04
177	UCART3	439496	3762492.48	439496.01, 3762492.48	0.08445	0.1242	6.45E-04	1.06E-05	6.55E-04
178	UCART3	439546	3762492.48	439546.01, 3762492.48	0.09455	0.14575	7.22E-04	1.24E-05	7.34E-04
179	UCART3	439196	3762542.48	439196.01, 3762542.48	0.04713	0.06067	3.60E-04	5.18E-06	3.65E-04
180	UCART3	439246	3762542.48	439246.01, 3762542.48	0.05091	0.06689	3.89E-04	5.71E-06	3.94E-04
181	UCART3	439296	3762542.48	439296.01, 3762542.48	0.05518	0.07428	4.21E-04	6.34E-06	4.28E-04
182	UCART3	439346	3762542.48	439346.01, 3762542.48	0.06009	0.08318	4.59E-04	7.10E-06	4.66E-04
183	UCART3	439396	3762542.48	439396.01, 3762542.48	0.06571	0.09401	5.02E-04	8.02E-06	5.10E-04

Risk by Age Group										
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
9.4E-08	2.8E-07	2.2E-07	1.9E-07	8.7E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.3E-07	2.6E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
1.3E-07	3.9E-07	3.1E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
1.4E-07	4.1E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
8.9E-08	2.7E-07	2.1E-07	1.8E-07	8.3E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.4E-08	2.8E-07	2.2E-07	1.9E-07	8.7E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.4E-07	2.7E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.2E-07	3.6E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
8.5E-08	2.6E-07	2.0E-07	1.8E-07	7.9E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
8.9E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.2E-08	2.8E-07	2.2E-07	1.9E-07	8.6E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.1E-07	2.4E-07	2.1E-07	9.5E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.9E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
8.0E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
8.3E-08	2.5E-07	2.0E-07	1.7E-07	7.7E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
8.7E-08	2.6E-07	2.1E-07	1.8E-07	8.0E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.0E-08	2.7E-07	2.2E-07	1.9E-07	8.4E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.4E-08	2.8E-07	2.2E-07	1.9E-07	8.7E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
9.9E-08	3.0E-07	2.4E-07	2.0E-07	9.1E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.9E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.4E-07	4.1E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
1.5E-07	4.5E-07	3.5E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
1.6E-07	4.9E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
2.0E-07	6.0E-07	4.7E-07	4.1E-07	1.8E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	0.0E+00	0.0E+00	2.7E-08	0.0E+00	0.0E+00	2.7E-08
2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
2.8E-07	8.6E-07	6.8E-07	5.9E-07	2.6E-07	0.0E+00	0.0E+00	3.5E-08	0.0E+00	0.0E+00	3.5E-08
1.3E-07	4.0E-07	3.2E-07	2.8E-07	1.2E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
1.4E-07	4.4E-07	3.5E-07	3.0E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	0.0E+00	0.0E+00	2.4E-08	0.0E+00	0.0E+00	2.4E-08
2.1E-07	6.4E-07	5.1E-07	4.4E-07	2.0E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	0.0E+00	0.0E+00	3.0E-08	0.0E+00	0.0E+00	3.0E-08
2.7E-07	8.1E-07	6.4E-07	5.6E-07	2.5E-07	0.0E+00	0.0E+00	3.3E-08	0.0E+00	0.0E+00	3.3E-08
1.3E-07	3.9E-07	3.1E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
1.4E-07	4.3E-07	3.4E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
1.5E-07	4.6E-07	3.7E-07	3.2E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
1.8E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	2.3E-08
2.0E-07	6.2E-07	4.9E-07	4.2E-07	1.9E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
2.3E-07	6.8E-07	5.4E-07	4.7E-07	2.1E-07	0.0E+00	0.0E+00	2.8E-08	0.0E+00	0.0E+00	2.8E-08
2.5E-07	7.7E-07	6.1E-07	5.2E-07	2.4E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
1.4E-07	4.1E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
1.5E-07	4.5E-07	3.5E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
1.6E-07	4.9E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
1.8E-07	5.3E-07	4.2E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08

PHASE 2 CONSTRUCTION

Unmitigated	
Onsite	Offsite
7.63E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
184	UCART3	439446	3762542.48	439446.01, 3762542.48	0.07225	0.1074	5.52E-04	9.17E-06	5.61E-04	1.9E-07	5.9E-07	4.6E-07	4.0E-07	1.8E-07	0.0E+00	0.0E+00	2.4E-08	0.0E+00	0.0E+00	2.4E-08
185	UCART3	439496	3762542.48	439496.01, 3762542.48	0.07977	0.12415	6.09E-04	1.06E-05	6.20E-04	2.1E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	0.0E+00	0.0E+00	2.7E-08	0.0E+00	0.0E+00	2.7E-08
186	UCART3	439546	3762542.48	439546.01, 3762542.48	0.08868	0.14565	6.77E-04	1.24E-05	6.89E-04	2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	0.0E+00	0.0E+00	3.0E-08	0.0E+00	0.0E+00	3.0E-08
187	UCART3	439196	3762592.48	439196.01, 3762592.48	0.04564	0.06038	3.48E-04	5.15E-06	3.54E-04	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
188	UCART3	439246	3762592.48	439246.01, 3762592.48	0.04909	0.06653	3.75E-04	5.68E-06	3.80E-04	1.3E-07	4.0E-07	3.1E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
189	UCART3	439296	3762592.48	439296.01, 3762592.48	0.05303	0.07385	4.05E-04	6.30E-06	4.11E-04	1.4E-07	4.3E-07	3.4E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
190	UCART3	439346	3762592.48	439346.01, 3762592.48	0.05752	0.08265	4.39E-04	7.05E-06	4.46E-04	1.5E-07	4.7E-07	3.7E-07	3.2E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
191	UCART3	439396	3762592.48	439396.01, 3762592.48	0.06262	0.09334	4.78E-04	7.97E-06	4.86E-04	1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
192	UCART3	439446	3762592.48	439446.01, 3762592.48	0.06844	0.10652	5.22E-04	9.09E-06	5.32E-04	1.8E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	2.3E-08
193	UCART3	439496	3762592.48	439496.01, 3762592.48	0.07505	0.12298	5.73E-04	1.05E-05	5.83E-04	2.0E-07	6.1E-07	4.8E-07	4.2E-07	1.9E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
194	UCART3	439546	3762592.48	439546.01, 3762592.48	0.08282	0.14409	6.32E-04	1.23E-05	6.45E-04	2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	0.0E+00	0.0E+00	2.8E-08	0.0E+00	0.0E+00	2.8E-08
195	UCART3	439196	3762642.48	439196.01, 3762642.48	0.04407	0.05977	3.36E-04	5.10E-06	3.42E-04	1.2E-07	3.6E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
196	UCART3	439246	3762642.48	439246.01, 3762642.48	0.04723	0.06578	3.61E-04	5.61E-06	3.66E-04	1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
197	UCART3	439296	3762642.48	439296.01, 3762642.48	0.05087	0.07296	3.88E-04	6.23E-06	3.95E-04	1.4E-07	4.1E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
198	UCART3	439346	3762642.48	439346.01, 3762642.48	0.05495	0.08155	4.19E-04	6.96E-06	4.26E-04	1.5E-07	4.5E-07	3.5E-07	3.0E-07	1.4E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
199	UCART3	439396	3762642.48	439396.01, 3762642.48	0.05949	0.09196	4.54E-04	7.85E-06	4.62E-04	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
200	UCART3	439446	3762642.48	439446.01, 3762642.48	0.06463	0.10475	4.93E-04	8.94E-06	5.02E-04	1.7E-07	5.3E-07	4.1E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
201	UCART3	439496	3762642.48	439496.01, 3762642.48	0.07039	0.1207	5.37E-04	1.03E-05	5.48E-04	1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.8E-07	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	2.3E-08
202	UCART3	439546	3762642.48	439546.01, 3762642.48	0.07698	0.1411	5.88E-04	1.20E-05	6.00E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
203	UCART3	439196	3762692.48	439196.01, 3762692.48	0.0423	0.05884	3.23E-04	5.02E-06	3.28E-04	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
204	UCART3	439246	3762692.48	439246.01, 3762692.48	0.0452	0.06467	3.45E-04	5.52E-06	3.51E-04	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
205	UCART3	439296	3762692.48	439296.01, 3762692.48	0.04831	0.07156	3.69E-04	6.11E-06	3.75E-04	1.3E-07	3.9E-07	3.1E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
206	UCART3	439346	3762692.48	439346.01, 3762692.48	0.0521	0.07983	3.98E-04	6.81E-06	4.05E-04	1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
207	UCART3	439396	3762692.48	439396.01, 3762692.48	0.05634	0.08986	4.30E-04	7.67E-06	4.38E-04	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
208	UCART3	439446	3762692.48	439446.01, 3762692.48	0.06087	0.1021	4.65E-04	8.71E-06	4.73E-04	1.6E-07	4.9E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
209	UCART3	439496	3762692.48	439496.01, 3762692.48	0.06555	0.11729	5.00E-04	1.00E-05	5.10E-04	1.8E-07	5.3E-07	4.2E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
210	UCART3	439546	3762692.48	439546.01, 3762692.48	0.07119	0.13667	5.43E-04	1.17E-05	5.55E-04	1.9E-07	5.8E-07	4.6E-07	4.0E-07	1.8E-07	0.0E+00	0.0E+00	2.4E-08	0.0E+00	0.0E+00	2.4E-08
211	UCART3	439196	3762742.48	439196.01, 3762742.48	0.04037	0.05759	3.08E-04	4.91E-06	3.13E-04	1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
212	UCART3	439246	3762742.48	439246.01, 3762742.48	0.04319	0.06321	3.30E-04	5.39E-06	3.35E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
213	UCART3	439296	3762742.48	439296.01, 3762742.48	0.04599	0.06977	3.51E-04	5.95E-06	3.57E-04	1.2E-07	3.7E-07	2.9E-07	2.6E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
214	UCART3	439346	3762742.48	439346.01, 3762742.48	0.04931	0.07762	3.76E-04	6.62E-06	3.83E-04	1.3E-07	4.0E-07	3.2E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
215	UCART3	439396	3762742.48	439396.01, 3762742.48	0.05294	0.08708	4.04E-04	7.43E-06	4.12E-04	1.4E-07	4.3E-07	3.4E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
216	UCART3	439446	3762742.48	439446.01, 3762742.48	0.05688	0.0986	4.34E-04	8.41E-06	4.43E-04	1.5E-07	4.6E-07	3.7E-07	3.2E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
217	UCART3	439496	3762742.48	439496.01, 3762742.48	0.06082	0.11277	4.64E-04	9.62E-06	4.74E-04	1.6E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
218	UCART3	439546	3762742.48	439546.01, 3762742.48	0.06561	0.13084	5.01E-04	1.12E-05	5.12E-04	1.8E-07	5.4E-07	4.2E-07	3.7E-07	1.6E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
219	UCART3	439196	3762792.48	439196.01, 3762792.48	0.03851	0.05607	2.94E-04	4.79E-06	2.99E-04	1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
220	UCART3	439246	3762792.48	439246.01, 3762792.48	0.04125	0.06144	3.15E-04	5.24E-06	3.20E-04	1.1E-07	3.3E-07	2.6E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
221	UCART3	439296	3762792.48	439296.01, 3762792.48	0.04365	0.06759	3.33E-04	5.77E-06	3.39E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
222	UCART3	439346	3762792.48	439346.01, 3762792.48	0.04645	0.0749	3.55E-04	6.39E-06	3.61E-04	1.2E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
223	UCART3	439396	3762792.48	439396.01, 3762792.48	0.04957	0.08368	3.78E-04	7.14E-06	3.86E-04	1.3E-07	4.0E-07	3.2E-07	2.8E-07	1.2E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
224	UCART3	439446	3762792.48	439446.01, 3762792.48	0.0531	0.09438	4.05E-04	8.05E-06	4.13E-04	1.4E-07	4.3E-07	3.4E-07	3.0E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
225	UCART3	439496	3762792.48	439496.01, 3762792.48	0.05649	0.10737	4.31E-04	9.16E-06	4.40E-04	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
226	UCART3	439546	3762792.48	439546.01, 3762792.48	0.06051	0.12384	4.62E-04	1.06E-05	4.72E-04	1.6E-07	4.9E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
227	UCART3	439196	3762842.48	439196.01, 3762842.48	0.0368	0.05434	2.81E-04	4.64E-06	2.86E-04	9.9E-08	3.0E-07	2.4E-07	2.0E-07	9.2E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
228	UCART3	439246	3762842.48	439246.01, 3762842.48	0.03918	0.05937	2.99E-04	5.07E-06	3.04E-04	1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.8E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
229	UCART3	439296	3762842.48	439296.01, 3762842.48	0.04151	0.06513	3.17E-04	5.56E-06	3.22E-04	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
230	UCART3	439346	3762842.48	439346.01, 3762842.48	0.04402	0.07189	3.36E-04	6.14E-06	3.42E-04	1.2E-07	3.6E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
231	UCART3	439396	3762842.48	439396.01, 3762842.48	0.04667	0.07992	3.56E-04	6.82E-06	3.63E-04	1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
232	UCART3	439446	3762842.48	439446.01, 3762842.48	0.04962	0.0896	3.79E-04	7.65E-06	3.86E-04	1.3E-07	4.0E-07	3.2E-07	2.8E-07	1.2E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
233	UCART3	439496	3762842.48	439496.01, 3762842.48	0.0525	0.1012	4.01E-04	8.64E-06	4.09E-04	1.4E-07	4.3E-07	3.4E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
234	UCART3	439546	3762842.48	439546.01, 3762842.48	0.05582	0.11578	4.26E-04	9.88E-06	4.36E-04	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	0.10396	0.1598	7.94E-04	1.36E-05	8.07E-04	2.8E-07	8.4E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	3.5E-08	0.0E+00	0.0E+00	3.5E-08
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	0.11814	0.19277	9.02E-04	1.65E-05	9.18E-04	3.2E-07	9.6E-07	7.6E-07	6.6E-07	2.9E-07	0.0E+00	0.0E+00	3.9E-08	0.0E+00	0.0E+00	3.9E-08
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	0.13548	0.23797	1.03E-03	2.03E-05	1.05E-03	3.7E-07	1.1E-06	8.7E-07	7.5E-07	3.4E-07	0.0E+00	0.0E+00	4.5E-08	0.0E+00	0.0E+00	4.5E-08
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	0.15692	0.30255	1.20E-03	2.58E-05	1.22E-03	4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	0.0E+00	0.0E+00	5.2E-08	0.0E+00	0.0E+00	5.2E-08
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	0.18367	0.40033	1.40E-03	3.42E-05	1.44E-03	5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	0.0E+00	0.0E+00	6.1E-08	0.0E+00	0.0E+00	6.1E-08
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	0.21791	0.5639	1.66E-03	4.81E-05	1.71E-03	5.9E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	7.3E-08	0.0E+00	0.0E+00	7.3E-08
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	0.26253	0.89698	2.00E-03	7.65E-05	2.08E-03	7.2E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	0.0E+00	0.0E+00	8.9E-08	0.0E+00	0.0E+00	8.9E-08
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	0.09721	0.16036	7.42E-04	1.37E-05	7.56E-04	2.6E-07	7.9E-07	6.2E-07	5.4E-07	2.4E-07	0.0E+00	0.0E+00	3.2E-08	0.0E+00	0.0E+00	3.2E-08
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	0.10953	0.19343	8.36E-04	1.65E-05	8.53E-04	3.0E-07	8.9E-07	7.0E-07	6.1E-07	2.7E-07	0.0E+00	0.0E+00	3.7E-08	0.0E+00	0.0E+00	3.7E-08
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	0.12427	0.23865	9.49E-04	2.04E-05	9.69E-04	3.4E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	0.0E+00	0.0E+00	4.1E-08	0.0E+00	0.0E+00	4.1E-08

PHASE 2 CONSTRUCTION

Unmitigated	
Onsite	Offsite
7.63E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	0.14215	0.30312	1.09E-03	2.59E-05	1.11E-03
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	0.16431	0.40084	1.25E-03	3.42E-05	1.29E-03
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	0.19253	0.56454	1.47E-03	4.82E-05	1.52E-03
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	0.22816	0.89566	1.74E-03	7.64E-05	1.82E-03
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	0.09052	0.15925	6.91E-04	1.36E-05	7.05E-04
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	0.10104	0.19186	7.71E-04	1.64E-05	7.88E-04
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	0.11346	0.23646	8.66E-04	2.02E-05	8.86E-04
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	0.12823	0.30015	9.79E-04	2.56E-05	1.00E-03
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	0.14639	0.39664	1.12E-03	3.38E-05	1.15E-03
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	0.16894	0.55744	1.29E-03	4.76E-05	1.34E-03
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	0.19525	0.88012	1.49E-03	7.51E-05	1.57E-03
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	0.08399	0.15648	6.41E-04	1.34E-05	6.54E-04
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	0.09274	0.18815	7.08E-04	1.61E-05	7.24E-04
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	0.10309	0.23154	7.87E-04	1.98E-05	8.07E-04
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	0.11485	0.29344	8.77E-04	2.50E-05	9.02E-04
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	0.12945	0.38754	9.88E-04	3.31E-05	1.02E-03
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	0.1467	0.54409	1.12E-03	4.64E-05	1.17E-03
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	0.16634	0.85534	1.27E-03	7.30E-05	1.34E-03
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	0.07746	0.15207	5.91E-04	1.30E-05	6.04E-04
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	0.08422	0.18209	6.43E-04	1.55E-05	6.58E-04
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	0.09273	0.22352	7.08E-04	1.91E-05	7.27E-04
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	0.10246	0.28276	7.82E-04	2.41E-05	8.06E-04
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	0.11335	0.37272	8.65E-04	3.18E-05	8.97E-04
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	0.1265	0.52421	9.66E-04	4.47E-05	1.01E-03
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	0.14165	0.8291	1.08E-03	7.08E-05	1.15E-03
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	0.03264	0.02832	2.49E-04	2.42E-06	2.52E-04
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	0.03427	0.02939	2.62E-04	2.51E-06	2.64E-04
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	0.03607	0.03053	2.75E-04	2.61E-06	2.78E-04
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	0.03801	0.03171	2.90E-04	2.71E-06	2.93E-04
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	0.0401	0.03292	3.06E-04	2.81E-06	3.09E-04
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	0.04235	0.03415	3.23E-04	2.91E-06	3.26E-04
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	0.04474	0.03539	3.42E-04	3.02E-06	3.45E-04
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	0.04731	0.03663	3.61E-04	3.13E-06	3.64E-04
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	0.04998	0.03782	3.82E-04	3.23E-06	3.85E-04
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	0.03389	0.02949	2.59E-04	2.52E-06	2.61E-04
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	0.03571	0.0307	2.73E-04	2.62E-06	2.75E-04
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	0.03772	0.032	2.88E-04	2.73E-06	2.91E-04
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	0.03984	0.03329	3.04E-04	2.84E-06	3.07E-04
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	0.04216	0.03464	3.22E-04	2.96E-06	3.25E-04
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	0.04467	0.03602	3.41E-04	3.07E-06	3.44E-04
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	0.04738	0.03743	3.62E-04	3.19E-06	3.65E-04
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	0.05035	0.03889	3.84E-04	3.32E-06	3.88E-04
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	0.05348	0.0403	4.08E-04	3.44E-06	4.12E-04
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	0.03517	0.03071	2.68E-04	2.62E-06	2.71E-04
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	0.03716	0.03205	2.84E-04	2.74E-06	2.86E-04
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	0.03935	0.03347	3.00E-04	2.86E-06	3.03E-04
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	0.0417	0.03492	3.18E-04	2.98E-06	3.21E-04
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	0.04427	0.03643	3.38E-04	3.11E-06	3.41E-04
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	0.04713	0.03804	3.60E-04	3.25E-06	3.63E-04
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	0.05024	0.03968	3.84E-04	3.39E-06	3.87E-04
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	0.05363	0.04135	4.09E-04	3.53E-06	4.13E-04
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	0.0573	0.04304	4.37E-04	3.67E-06	4.41E-04
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	0.03648	0.03199	2.78E-04	2.73E-06	2.81E-04
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	0.03863	0.03345	2.95E-04	2.85E-06	2.98E-04
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	0.04103	0.03503	3.13E-04	2.99E-06	3.16E-04
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	0.04366	0.0367	3.33E-04	3.13E-06	3.36E-04
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	0.04654	0.03841	3.55E-04	3.28E-06	3.59E-04
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	0.04977	0.04026	3.80E-04	3.44E-06	3.83E-04
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	0.05334	0.04218	4.07E-04	3.60E-06	4.11E-04
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	0.05723	0.04411	4.37E-04	3.76E-06	4.41E-04
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	0.06155	0.04612	4.70E-04	3.94E-06	4.74E-04

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
3.8E-07	1.2E-06	9.2E-07	7.9E-07	3.6E-07	0.0E+00	0.0E+00	4.8E-08	0.0E+00	0.0E+00	4.8E-08
4.5E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	0.0E+00	0.0E+00	5.5E-08	0.0E+00	0.0E+00	5.5E-08
5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	0.0E+00	0.0E+00	6.5E-08	0.0E+00	0.0E+00	6.5E-08
6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	0.0E+00	0.0E+00	7.8E-08	0.0E+00	0.0E+00	7.8E-08
2.4E-07	7.4E-07	5.8E-07	5.0E-07	2.3E-07	0.0E+00	0.0E+00	3.0E-08	0.0E+00	0.0E+00	3.0E-08
2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	0.0E+00	0.0E+00	3.4E-08	0.0E+00	0.0E+00	3.4E-08
3.1E-07	9.3E-07	7.3E-07	6.3E-07	2.8E-07	0.0E+00	0.0E+00	3.8E-08	0.0E+00	0.0E+00	3.8E-08
3.5E-07	1.0E-06	8.3E-07	7.2E-07	3.2E-07	0.0E+00	0.0E+00	4.3E-08	0.0E+00	0.0E+00	4.3E-08
4.0E-07	1.2E-06	9.5E-07	8.2E-07	3.7E-07	0.0E+00	0.0E+00	4.9E-08	0.0E+00	0.0E+00	4.9E-08
4.6E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	5.7E-08	0.0E+00	0.0E+00	5.7E-08
5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	6.7E-08	0.0E+00	0.0E+00	6.7E-08
2.3E-07	6.8E-07	5.4E-07	4.7E-07	2.1E-07	0.0E+00	0.0E+00	2.8E-08	0.0E+00	0.0E+00	2.8E-08
2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
2.8E-07	8.4E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	3.5E-08	0.0E+00	0.0E+00	3.5E-08
3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	0.0E+00	0.0E+00	3.9E-08	0.0E+00	0.0E+00	3.9E-08
3.5E-07	1.1E-06	8.4E-07	7.3E-07	3.3E-07	0.0E+00	0.0E+00	4.4E-08	0.0E+00	0.0E+00	4.4E-08
4.0E-07	1.2E-06	9.6E-07	8.3E-07	3.7E-07	0.0E+00	0.0E+00	5.0E-08	0.0E+00	0.0E+00	5.0E-08
4.6E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	5.7E-08	0.0E+00	0.0E+00	5.7E-08
2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
2.3E-07	6.9E-07	5.4E-07	4.7E-07	2.1E-07	0.0E+00	0.0E+00	2.8E-08	0.0E+00	0.0E+00	2.8E-08
2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
2.8E-07	8.4E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	3.5E-08	0.0E+00	0.0E+00	3.5E-08
3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	0.0E+00	0.0E+00	3.8E-08	0.0E+00	0.0E+00	3.8E-08
3.5E-07	1.1E-06	8.3E-07	7.2E-07	3.2E-07	0.0E+00	0.0E+00	4.3E-08	0.0E+00	0.0E+00	4.3E-08
4.0E-07	1.2E-06	9.5E-07	8.2E-07	3.7E-07	0.0E+00	0.0E+00	4.9E-08	0.0E+00	0.0E+00	4.9E-08
8.7E-08	2.6E-07	2.1E-07	1.8E-07	8.1E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.1E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.1E-07	2.4E-07	2.1E-07	9.4E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.2E-07	2.6E-07	2.2E-07	9.9E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.2E-07	3.6E-07	2.8E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
1.3E-07	4.0E-07	3.2E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
9.0E-08	2.7E-07	2.2E-07	1.9E-07	8.4E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
9.5E-08	2.9E-07	2.3E-07	2.0E-07	8.8E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.0E-07	2.4E-07	2.1E-07	9.3E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.9E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.2E-07	3.6E-07	2.8E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
1.3E-07	4.0E-07	3.2E-07	2.8E-07	1.2E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
1.4E-07	4.3E-07	3.4E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
1.5E-07	4.6E-07	3.6E-07	3.2E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
9.7E-08	2.9E-07	2.3E-07	2.0E-07	9.0E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
1.1E-07	3.3E-07	2.6E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.2E-07	3.7E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
1.3E-07	4.0E-07	3.2E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
1.4E-07	4.3E-07	3.4E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
1.6E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08

PHASE 2 CONSTRUCTION

Unmitigated	
Onsite	Offsite
7.63E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	0.0378	0.03333	2.89E-04	2.84E-06	2.91E-04	1.0E-07	3.0E-07	2.4E-07	2.1E-07	9.4E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	0.04016	0.03496	3.07E-04	2.98E-06	3.10E-04	1.1E-07	3.2E-07	2.6E-07	2.2E-07	9.9E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	0.04279	0.03672	3.27E-04	3.13E-06	3.30E-04	1.1E-07	3.4E-07	2.7E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	0.04571	0.0386	3.49E-04	3.29E-06	3.52E-04	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	0.04894	0.04057	3.74E-04	3.46E-06	3.77E-04	1.3E-07	3.9E-07	3.1E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	0.05258	0.04269	4.01E-04	3.64E-06	4.05E-04	1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	0.05664	0.0449	4.32E-04	3.83E-06	4.36E-04	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	0.06118	0.04722	4.67E-04	4.03E-06	4.71E-04	1.6E-07	4.9E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	0.06623	0.0496	5.06E-04	4.23E-06	5.10E-04	1.8E-07	5.3E-07	4.2E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
315	UCART5	439152.4	3761698.92	439152.35, 3761698.92	0.03915	0.03473	2.99E-04	2.96E-06	3.02E-04	1.0E-07	3.2E-07	2.5E-07	2.2E-07	9.7E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
316	UCART5	439202.4	3761698.92	439202.35, 3761698.92	0.0417	0.03652	3.18E-04	3.12E-06	3.21E-04	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
317	UCART5	439252.4	3761698.92	439252.35, 3761698.92	0.04456	0.03846	3.40E-04	3.28E-06	3.43E-04	1.2E-07	3.6E-07	2.8E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
318	UCART5	439302.4	3761698.92	439302.35, 3761698.92	0.04779	0.04058	3.65E-04	3.46E-06	3.68E-04	1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
319	UCART5	439352.4	3761698.92	439352.35, 3761698.92	0.05142	0.04287	3.93E-04	3.66E-06	3.96E-04	1.4E-07	4.1E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
320	UCART5	439402.4	3761698.92	439402.35, 3761698.92	0.05554	0.04533	4.24E-04	3.87E-06	4.28E-04	1.5E-07	4.5E-07	3.5E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	0.06011	0.04785	4.59E-04	4.08E-06	4.63E-04	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	0.06538	0.05061	4.99E-04	4.32E-06	5.03E-04	1.7E-07	5.3E-07	4.2E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	0.07132	0.05347	5.44E-04	4.56E-06	5.49E-04	1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.8E-07	0.0E+00	0.0E+00	2.4E-08	0.0E+00	0.0E+00	2.4E-08
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	0.04051	0.03618	3.09E-04	3.09E-06	3.12E-04	1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	0.04329	0.03818	3.30E-04	3.26E-06	3.34E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	0.04638	0.04032	3.54E-04	3.44E-06	3.57E-04	1.2E-07	3.7E-07	3.0E-07	2.6E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	0.04993	0.04271	3.81E-04	3.64E-06	3.85E-04	1.3E-07	4.0E-07	3.2E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	0.05395	0.04529	4.12E-04	3.87E-06	4.16E-04	1.4E-07	4.3E-07	3.4E-07	3.0E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	0.05854	0.04808	4.47E-04	4.10E-06	4.51E-04	1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	0.06376	0.05106	4.87E-04	4.36E-06	4.91E-04	1.7E-07	5.1E-07	4.1E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	0.06975	0.05424	5.32E-04	4.63E-06	5.37E-04	1.9E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	2.3E-08
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	0.07673	0.05771	5.86E-04	4.92E-06	5.91E-04	2.0E-07	6.2E-07	4.9E-07	4.2E-07	1.9E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	0.04188	0.03769	3.20E-04	3.22E-06	3.23E-04	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	0.04489	0.03991	3.43E-04	3.41E-06	3.46E-04	1.2E-07	3.6E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	0.04828	0.04232	3.69E-04	3.61E-06	3.72E-04	1.3E-07	3.9E-07	3.1E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	0.05217	0.04501	3.98E-04	3.84E-06	4.02E-04	1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	0.05657	0.04789	4.32E-04	4.09E-06	4.36E-04	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	0.06167	0.05108	4.71E-04	4.36E-06	4.75E-04	1.6E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	0.06763	0.05461	5.16E-04	4.66E-06	5.21E-04	1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	0.07446	0.05833	5.68E-04	4.98E-06	5.73E-04	2.0E-07	6.0E-07	4.7E-07	4.1E-07	1.8E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	0.08261	0.0625	6.31E-04	5.33E-06	6.36E-04	2.2E-07	6.6E-07	5.3E-07	4.5E-07	2.0E-07	0.0E+00	0.0E+00	2.7E-08	0.0E+00	0.0E+00	2.7E-08
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	0.04326	0.03926	3.30E-04	3.35E-06	3.34E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	0.0465	0.04171	3.55E-04	3.56E-06	3.59E-04	1.2E-07	3.7E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	0.05015	0.04437	3.83E-04	3.79E-06	3.87E-04	1.3E-07	4.0E-07	3.2E-07	2.8E-07	1.2E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	0.05438	0.04737	4.15E-04	4.04E-06	4.19E-04	1.5E-07	4.4E-07	3.5E-07	3.0E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	0.05922	0.05063	4.52E-04	4.32E-06	4.56E-04	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	0.06495	0.05436	4.96E-04	4.64E-06	5.00E-04	1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	0.0716	0.05842	5.47E-04	4.99E-06	5.52E-04	1.9E-07	5.8E-07	4.6E-07	3.9E-07	1.8E-07	0.0E+00	0.0E+00	2.4E-08	0.0E+00	0.0E+00	2.4E-08
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	0.0794	0.06282	6.06E-04	5.36E-06	6.11E-04	2.1E-07	6.4E-07	5.0E-07	4.4E-07	2.0E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	0.08885	0.06784	6.78E-04	5.79E-06	6.84E-04	2.4E-07	7.1E-07	5.6E-07	4.9E-07	2.2E-07	0.0E+00	0.0E+00	2.9E-08	0.0E+00	0.0E+00	2.9E-08
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	0.04462	0.0409	3.41E-04	3.49E-06	3.44E-04	1.2E-07	3.6E-07	2.8E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	0.04808	0.04358	3.67E-04	3.72E-06	3.71E-04	1.3E-07	3.9E-07	3.1E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	0.05202	0.04654	3.97E-04	3.97E-06	4.01E-04	1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	0.05664	0.04992	4.32E-04	4.26E-06	4.37E-04	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	0.06197	0.05365	4.73E-04	4.58E-06	4.78E-04	1.7E-07	5.0E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	0.06824	0.05783	5.21E-04	4.94E-06	5.26E-04	1.8E-07	5.5E-07	4.3E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	2.3E-08
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	0.07573	0.06261	5.78E-04	5.34E-06	5.83E-04	2.0E-07	6.1E-07	4.8E-07	4.2E-07	1.9E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	0.08466	0.06792	6.46E-04	5.80E-06	6.52E-04	2.3E-07	6.8E-07	5.4E-07	4.7E-07	2.1E-07	0.0E+00	0.0E+00	2.8E-08	0.0E+00	0.0E+00	2.8E-08
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	0.09549	0.07388	7.29E-04	6.30E-06	7.35E-04	2.5E-07	7.7E-07	6.1E-07	5.3E-07	2.4E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	0.04588	0.04258	3.50E-04	3.63E-06	3.54E-04	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	0.04956	0.04551	3.78E-04	3.88E-06	3.82E-04	1.3E-07	4.0E-07	3.2E-07	2.7E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	0.05379	0.04877	4.11E-04	4.16E-06	4.15E-04	1.4E-07	4.3E-07	3.4E-07	3.0E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	0.05878	0.05256	4.49E-04	4.49E-06	4.53E-04	1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.5E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	0.0646	0.05679	4.93E-04	4.85E-06	4.98E-04	1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	0.07147	0.06155	5.46E-04	5.25E-06	5.51E-04	1.9E-07	5.8E-07	4.5E-07	3.9E-07	1.8E-07	0.0E+00	0.0E+00	2.4E-08	0.0E+00	0.0E+00	2.4E-08
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	0.07978	0.06708	6.09E-04	5.72E-06	6.15E-04	2.1E-07	6.4E-07	5.1E-07	4.4E-07	2.0E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08

PHASE 2 CONSTRUCTION

Unmitigated	
Onsite	Offsite
7.63E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	0.08985	0.07336	6.86E-04	6.26E-06	6.92E-04	2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	0.0E+00	0.0E+00	3.0E-08	0.0E+00	0.0E+00	3.0E-08
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	0.10224	0.08054	7.80E-04	6.87E-06	7.87E-04	2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	0.0E+00	0.0E+00	3.4E-08	0.0E+00	0.0E+00	3.4E-08
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	0.047	0.04428	3.59E-04	3.78E-06	3.63E-04	1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	0.05089	0.04747	3.88E-04	4.05E-06	3.93E-04	1.4E-07	4.1E-07	3.2E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	0.05538	0.05107	4.23E-04	4.36E-06	4.27E-04	1.5E-07	4.5E-07	3.5E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	0.06072	0.05528	4.64E-04	4.72E-06	4.68E-04	1.6E-07	4.9E-07	3.9E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	0.067	0.06006	5.11E-04	5.13E-06	5.17E-04	1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	0.07446	0.06546	5.68E-04	5.59E-06	5.74E-04	2.0E-07	6.0E-07	4.7E-07	4.1E-07	1.8E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	0.08354	0.07178	6.38E-04	6.13E-06	6.44E-04	2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	0.0E+00	0.0E+00	2.8E-08	0.0E+00	0.0E+00	2.8E-08
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	0.09471	0.07912	7.23E-04	6.75E-06	7.30E-04	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	0.1087	0.08772	8.30E-04	7.49E-06	8.37E-04	2.9E-07	8.8E-07	6.9E-07	6.0E-07	2.7E-07	0.0E+00	0.0E+00	3.6E-08	0.0E+00	0.0E+00	3.6E-08
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	0.04793	0.04598	3.66E-04	3.92E-06	3.70E-04	1.3E-07	3.9E-07	3.1E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	1.6E-08	0.0E+00	0.0E+00	1.6E-08
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	0.05202	0.0495	3.97E-04	4.22E-06	4.01E-04	1.4E-07	4.2E-07	3.3E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	0.05677	0.05351	4.33E-04	4.57E-06	4.38E-04	1.5E-07	4.6E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	0.06237	0.05811	4.76E-04	4.96E-06	4.81E-04	1.7E-07	5.0E-07	4.0E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	0.06902	0.06341	5.27E-04	5.41E-06	5.32E-04	1.8E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	2.3E-08
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	0.07701	0.06956	5.88E-04	5.94E-06	5.94E-04	2.1E-07	6.2E-07	4.9E-07	4.2E-07	1.9E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	0.0868	0.0768	6.63E-04	6.55E-06	6.69E-04	2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.1E-07	0.0E+00	0.0E+00	2.9E-08	0.0E+00	0.0E+00	2.9E-08
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	0.09896	0.08534	7.55E-04	7.28E-06	7.63E-04	2.6E-07	8.0E-07	6.3E-07	5.4E-07	2.5E-07	0.0E+00	0.0E+00	3.3E-08	0.0E+00	0.0E+00	3.3E-08
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	0.11438	0.09553	8.73E-04	8.15E-06	8.81E-04	3.1E-07	9.2E-07	7.3E-07	6.3E-07	2.8E-07	0.0E+00	0.0E+00	3.8E-08	0.0E+00	0.0E+00	3.8E-08
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	0.05137	0.03781	3.92E-04	3.23E-06	3.95E-04	1.4E-07	4.1E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	0.05395	0.03875	4.12E-04	3.31E-06	4.15E-04	1.4E-07	4.3E-07	3.4E-07	3.0E-07	1.3E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	0.05648	0.0396	4.31E-04	3.38E-06	4.35E-04	1.5E-07	4.5E-07	3.6E-07	3.1E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	0.05891	0.04036	4.50E-04	3.44E-06	4.53E-04	1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.5E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	0.06114	0.04102	4.67E-04	3.50E-06	4.70E-04	1.6E-07	4.9E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	0.06323	0.04165	4.83E-04	3.55E-06	4.86E-04	1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	0.05529	0.04041	4.22E-04	3.45E-06	4.26E-04	1.5E-07	4.4E-07	3.5E-07	3.0E-07	1.4E-07	0.0E+00	0.0E+00	1.8E-08	0.0E+00	0.0E+00	1.8E-08
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	0.05837	0.04153	4.46E-04	3.54E-06	4.49E-04	1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.4E-07	0.0E+00	0.0E+00	1.9E-08	0.0E+00	0.0E+00	1.9E-08
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	0.06146	0.04257	4.69E-04	3.63E-06	4.73E-04	1.6E-07	4.9E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	0.06447	0.0435	4.92E-04	3.71E-06	4.96E-04	1.7E-07	5.2E-07	4.1E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	0.0673	0.0443	5.14E-04	3.78E-06	5.18E-04	1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	0.06998	0.04509	5.34E-04	3.85E-06	5.38E-04	1.9E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	2.3E-08
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	0.05966	0.04332	4.55E-04	3.70E-06	4.59E-04	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	0.06339	0.04469	4.84E-04	3.81E-06	4.88E-04	1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	0.0672	0.04596	5.13E-04	3.92E-06	5.17E-04	1.8E-07	5.4E-07	4.3E-07	3.7E-07	1.7E-07	0.0E+00	0.0E+00	2.2E-08	0.0E+00	0.0E+00	2.2E-08
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	0.07099	0.04714	5.42E-04	4.02E-06	5.46E-04	1.9E-07	5.7E-07	4.5E-07	3.9E-07	1.8E-07	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	2.3E-08
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	0.0746	0.04816	5.69E-04	4.11E-06	5.74E-04	2.0E-07	6.0E-07	4.7E-07	4.1E-07	1.8E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	0.07804	0.0491	5.96E-04	4.19E-06	6.00E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	0.06458	0.04661	4.93E-04	3.98E-06	4.97E-04	1.7E-07	5.2E-07	4.1E-07	3.6E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	0.06912	0.0483	5.28E-04	4.12E-06	5.32E-04	1.8E-07	5.6E-07	4.4E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	2.3E-08	0.0E+00	0.0E+00	2.3E-08
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	0.07384	0.04989	5.64E-04	4.26E-06	5.68E-04	2.0E-07	5.9E-07	4.7E-07	4.1E-07	1.8E-07	0.0E+00	0.0E+00	2.4E-08	0.0E+00	0.0E+00	2.4E-08
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	0.07863	0.05136	6.00E-04	4.38E-06	6.05E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
409	UCART6	439816.6	3761570.65	439816.61, 3761570.65	0.0833	0.05266	6.36E-04	4.49E-06	6.40E-04	2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	0.0E+00	0.0E+00	2.7E-08	0.0E+00	0.0E+00	2.7E-08
410	UCART6	439866.6	3761570.65	439866.61, 3761570.65	0.08774	0.05381	6.70E-04	4.59E-06	6.74E-04	2.3E-07	7.0E-07	5.6E-07	4.8E-07	2.2E-07	0.0E+00	0.0E+00	2.9E-08	0.0E+00	0.0E+00	2.9E-08
411	UCART7	440451.1	3762893.83	440451.14, 3762893.83	0.09455	0.71336	7.22E-04	6.09E-05	7.83E-04	2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	0.0E+00	0.0E+00	3.4E-08	0.0E+00	0.0E+00	3.4E-08
412	UCART7	440501.1	3762893.83	440501.14, 3762893.83	0.09364	0.55696	7.15E-04	4.75E-05	7.62E-04	2.6E-07	8.0E-07	6.3E-07	5.4E-07	2.4E-07	0.0E+00	0.0E+00	3.3E-08	0.0E+00	0.0E+00	3.3E-08
413	UCART7	440551.1	3762893.83	440551.14, 3762893.83	0.09303	0.45329	7.10E-04	3.87E-05	7.49E-04	2.6E-07	7.8E-07	6.2E-07	5.3E-07	2.4E-07	0.0E+00	0.0E+00	3.2E-08	0.0E+00	0.0E+00	3.2E-08
414	UCART7	440601.1	3762893.83	440601.14, 3762893.83	0.09201	0.37853	7.02E-04	3.23E-05	7.35E-04	2.5E-07	7.7E-07	6.1E-07	5.2E-07	2.4E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
415	UCART7	440651.1	3762893.83	440651.14, 3762893.83	0.09132	0.32264	6.97E-04	2.75E-05	7.25E-04	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
416	UCART7	440701.1	3762893.83	440701.14, 3762893.83	0.09071	0.27922	6.92E-04	2.38E-05	7.16E-04	2.5E-07	7.5E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
417	UCART7	440751.1	3762893.83	440751.14, 3762893.83	0.09056	0.24509	6.91E-04	2.09E-05	7.12E-04	2.5E-07	7.4E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	3.0E-08	0.0E+00	0.0E+00	3.0E-08
418	UCART7	440801.1	3762893.83	440801.14, 3762893.83	0.08961	0.21685	6.84E-04	1.85E-05	7.03E-04	2.4E-07	7.3E-07	5.8E-07	5.0E-07	2.3E-07	0.0E+00	0.0E+00	3.0E-08	0.0E+00	0.0E+00	3.0E-08
419	UCART7	440851.1	3762893.83	440851.14, 3762893.83	0.08905	0.1937	6.80E-04	1.65E-05	6.96E-04	2.4E-07	7.3E-07	5.7E-07	5.0E-07	2.2E-07	0.0E+00	0.0E+00	3.0E-08	0.0E+00	0.0E+00	3.0E-08
420	UCART7	440451.1	3762943.83	440451.14, 3762943.83	0.07941	0.48441	6.06E-04	4.13E-05	6.48E-04	2.2E-07	6.8E-07	5.3E-07	4.6E-07	2.1E-07	0.0E+00	0.0E+00	2.8E-08	0.0E+00	0.0E+00	2.8E-08
421	UCART7	440501.1	3762943.83	440501.14, 3762943.83	0.07806	0.41652	5.96E-04	3.55E-05	6.31E-04	2.2E-07	6.6E-07	5.2E-07	4.5E-07	2.0E-07	0.0E+00	0.0E+00	2.7E-08	0.0E+00	0.0E+00	2.7E-08
422	UCART7	440551.1	3762943.83	440551.14, 3762943.83	0.07744	0.36019	5.91E-04	3.07E-05	6.22E-04	2.2E-07	6.5E-07	5.1E-07	4.4E-07	2.0E-07	0.0E+00	0.0E+00	2.7E-08	0.0E+00	0.0E+00	2.7E-08
423	UCART7	440601.1	3762943.83	440601.14, 3762943.83	0.07646	0.31276	5.84E-04	2.67E-05	6.10E-04	2.1E-07	6.4E-07	5.0E-07	4.4E-07	2.0E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
424	UCART7	440651.1	3762943.83	440651.14, 3762943.83	0.07627	0.27484	5.82E-04	2.35E-05	6.06E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
425	UCART7	440701.1	3762943.83	440701.14, 3762943.83	0.07618	0.24346	5.82E-04	2.08E-05	6.02E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
426	UCART7	440751.1	3762943.83	440751.14, 3762943.83	0.07668	0.21786	5.85E-04	1.86E-05	6.04E-04	2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	2.6E-08	0.0E+00	0.0E+00	2.6E-08
427	UCART7	440801.1	3762943.83	440801.14, 3762943.83	0.07561	0.19498	5.77E-04	1.66E-05	5.94E-04	2.1E-07	6.2E-07	4.9E-07	4.2E-07	1.9E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08

PHASE 2 CONSTRUCTION

Unmitigated	
Onsite	Offsite
7.63E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Total
428	UCART7	440851.1	3762943.83	440851.14, 3762943.83	0.07456	0.17557	5.84E-04
429	UCART8	441116.7	3763135.31	441116.67, 3763135.31	0.04362	0.08195	3.40E-04
430	UCART8	441166.7	3763135.31	441166.67, 3763135.31	0.04347	0.078	3.38E-04
431	UCART8	441116.7	3763185.31	441116.67, 3763185.31	0.03927	0.07457	3.06E-04
432	UCART8	441166.7	3763185.31	441166.67, 3763185.31	0.03925	0.07151	3.06E-04
433	UCART8	441116.7	3763235.31	441116.67, 3763235.31	0.03561	0.06769	2.78E-04
434	UCART8	441166.7	3763235.31	441166.67, 3763235.31	0.03563	0.06531	2.78E-04
435	UCART8	441116.7	3763285.31	441116.67, 3763285.31	0.03229	0.06091	2.52E-04
436	UCART8	441166.7	3763285.31	441166.67, 3763285.31	0.03245	0.05934	2.53E-04
437	UCART8	441116.7	3763335.31	441116.67, 3763335.31	0.02953	0.05488	2.30E-04
438	UCART8	441166.7	3763335.31	441166.67, 3763335.31	0.02963	0.0537	2.31E-04
439	UCART8	441116.7	3763385.31	441116.67, 3763385.31	0.02719	0.04952	2.12E-04
440	UCART8	441166.7	3763385.31	441166.67, 3763385.31	0.02719	0.04855	2.12E-04
441	UCART8	441116.7	3763435.31	441116.67, 3763435.31	0.02514	0.0447	1.96E-04
442	UCART8	441166.7	3763435.31	441166.67, 3763435.31	0.02516	0.04407	1.96E-04
443	UCART9	440433.4	3762815.13	440433.43, 3762815.13	0.13355	1.21998	1.12E-03
444	UCART9	440483.4	3762815.13	440483.43, 3762815.13	0.1319	0.83936	1.08E-03
445	UCART9	440533.4	3762815.13	440533.43, 3762815.13	0.13081	0.63367	1.05E-03
446	UCART9	440583.4	3762815.13	440583.43, 3762815.13	0.12902	0.50284	1.03E-03
447	UCART9	440633.4	3762815.13	440633.43, 3762815.13	0.12764	0.4129	1.01E-03
448	UCART9	440683.4	3762815.13	440683.43, 3762815.13	0.12573	0.34695	9.89E-04
449	UCART9	440733.4	3762815.13	440733.43, 3762815.13	0.12295	0.29642	9.64E-04
450	UCART9	440783.4	3762815.13	440783.43, 3762815.13	0.12015	0.25711	9.39E-04
451	UCART9	440833.4	3762815.13	440833.43, 3762815.13	0.11621	0.22507	9.06E-04
452	UCART9	440883.4	3762815.13	440883.43, 3762815.13	0.11224	0.19911	8.74E-04
453	UCART9	440933.4	3762815.13	440933.43, 3762815.13	0.10854	0.1779	8.44E-04
454	UCART9	440983.4	3762815.13	440983.43, 3762815.13	0.10433	0.15989	8.10E-04
455	UCART9	440433.4	3762865.13	440433.43, 3762865.13	0.10684	0.98413	9.00E-04
456	UCART9	440483.4	3762865.13	440483.43, 3762865.13	0.10569	0.70349	8.67E-04
457	UCART9	440533.4	3762865.13	440533.43, 3762865.13	0.10504	0.54623	8.48E-04
458	UCART9	440583.4	3762865.13	440583.43, 3762865.13	0.10405	0.44314	8.32E-04
459	UCART9	440633.4	3762865.13	440633.43, 3762865.13	0.10277	0.36975	8.16E-04
460	UCART9	440683.4	3762865.13	440683.43, 3762865.13	0.10234	0.31509	8.08E-04
461	UCART9	440733.4	3762865.13	440733.43, 3762865.13	0.10094	0.2724	7.94E-04
462	UCART9	440783.4	3762865.13	440783.43, 3762865.13	0.09994	0.23856	7.83E-04
463	UCART9	440833.4	3762865.13	440833.43, 3762865.13	0.09848	0.21117	7.70E-04
464	UCART9	440883.4	3762865.13	440883.43, 3762865.13	0.09643	0.18842	7.52E-04
465	UCART9	440933.4	3762865.13	440933.43, 3762865.13	0.09414	0.16931	7.33E-04
466	UCART9	440983.4	3762865.13	440983.43, 3762865.13	0.09123	0.1529	7.09E-04
467	UCART10	441118.3	3762686.02	441118.27, 3762686.02	0.11995	0.1272	9.26E-04
468	UCART10	441168.3	3762686.02	441168.27, 3762686.02	0.11185	0.11599	8.64E-04
469	UCART10	441118.3	3762736.02	441118.27, 3762736.02	0.10882	0.1267	8.41E-04
470	UCART10	441168.3	3762736.02	441168.27, 3762736.02	0.10265	0.1158	7.93E-04
471	UCART10	441118.3	3762786.02	441118.27, 3762786.02	0.09841	0.12495	7.62E-04
472	UCART10	441168.3	3762786.02	441168.27, 3762786.02	0.09343	0.11433	7.23E-04
473	UCART10	441118.3	3762836.02	441118.27, 3762836.02	0.08845	0.12174	6.86E-04
474	UCART10	441168.3	3762836.02	441168.27, 3762836.02	0.08463	0.11169	6.56E-04
475	UCART11	440411.7	3762093.41	440411.67, 3762093.41	2.15718	0.25152	1.65E-02
476	UCART11	440461.7	3762093.41	440461.67, 3762093.41	1.30698	0.22102	9.98E-03
477	UCART11	440511.7	3762093.41	440511.67, 3762093.41	0.91347	0.19531	6.97E-03
478	UCART11	440561.7	3762093.41	440561.67, 3762093.41	0.68537	0.17371	5.23E-03
479	UCART11	440611.7	3762093.41	440611.67, 3762093.41	0.53732	0.15551	4.10E-03
480	UCART11	440411.7	3762143.41	440411.67, 3762143.41	3.11472	0.32792	2.38E-02
481	UCART11	440461.7	3762143.41	440461.67, 3762143.41	1.7682	0.27895	1.35E-02
482	UCART11	440511.7	3762143.41	440511.67, 3762143.41	1.17325	0.24007	8.98E-03
483	UCART11	440561.7	3762143.41	440561.67, 3762143.41	0.84859	0.20899	6.50E-03
484	UCART11	440611.7	3762143.41	440611.67, 3762143.41	0.64702	0.18378	4.95E-03
485	UCART12	440406.6	3762008.86	440406.61, 3762008.86	0.82617	0.17276	6.32E-03
486	UCART12	440456.6	3762008.86	440456.61, 3762008.86	0.66138	0.15766	5.06E-03
487	UCART12	440506.6	3762008.86	440506.61, 3762008.86	0.536	0.14393	4.10E-03
488	UCART12	440556.6	3762008.86	440556.61, 3762008.86	0.44151	0.1316	3.38E-03

Residential Dose					Risk by Age Group					
Onsite					Offsite					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
5.69E-04	1.50E-05	2.0E-07	6.1E-07	4.8E-07	4.2E-07	1.9E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
3.33E-04	6.99E-06	1.2E-07	3.6E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
3.32E-04	6.66E-06	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
3.00E-04	6.36E-06	1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.8E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
3.00E-04	6.10E-06	1.1E-07	3.2E-07	2.5E-07	2.2E-07	9.8E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
2.72E-04	5.78E-06	9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
2.72E-04	5.57E-06	9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
2.46E-04	5.20E-06	8.7E-08	2.6E-07	2.1E-07	1.8E-07	8.1E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
2.48E-04	5.06E-06	8.8E-08	2.6E-07	2.1E-07	1.8E-07	8.1E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
2.25E-04	4.68E-06	8.0E-08	2.4E-07	1.9E-07	1.6E-07	7.4E-08	0.0E+00	0.0E+00	9.9E-09	0.0E+00	0.0E+00	9.9E-09
2.26E-04	4.58E-06	8.0E-08	2.4E-07	1.9E-07	1.6E-07	7.4E-08	0.0E+00	0.0E+00	9.9E-09	0.0E+00	0.0E+00	9.9E-09
2.08E-04	4.23E-06	7.3E-08	2.2E-07	1.7E-07	1.5E-07	6.8E-08	0.0E+00	0.0E+00	9.1E-09	0.0E+00	0.0E+00	9.1E-09
2.08E-04	4.14E-06	7.3E-08	2.2E-07	1.7E-07	1.5E-07	6.8E-08	0.0E+00	0.0E+00	9.1E-09	0.0E+00	0.0E+00	9.1E-09
1.92E-04	3.81E-06	6.8E-08	2.0E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	8.4E-09	0.0E+00	0.0E+00	8.4E-09
1.92E-04	3.76E-06	6.8E-08	2.0E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	8.4E-09	0.0E+00	0.0E+00	8.4E-09
1.02E-03	1.04E-04	3.9E-07	1.2E-06	9.3E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	4.8E-08	0.0E+00	0.0E+00	4.8E-08
1.01E-03	7.16E-05	3.7E-07	1.1E-06	8.9E-07	7.7E-07	3.5E-07	0.0E+00	0.0E+00	4.6E-08	0.0E+00	0.0E+00	4.6E-08
9.99E-04	5.41E-05	3.6E-07	1.1E-06	8.7E-07	7.5E-07	3.4E-07	0.0E+00	0.0E+00	4.5E-08	0.0E+00	0.0E+00	4.5E-08
9.85E-04	4.29E-05	3.6E-07	1.1E-06	8.5E-07	7.3E-07	3.3E-07	0.0E+00	0.0E+00	4.4E-08	0.0E+00	0.0E+00	4.4E-08
9.74E-04	3.52E-05	3.5E-07	1.1E-06	8.3E-07	7.2E-07	3.2E-07	0.0E+00	0.0E+00	4.3E-08	0.0E+00	0.0E+00	4.3E-08
9.60E-04	2.96E-05	3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	0.0E+00	0.0E+00	4.2E-08	0.0E+00	0.0E+00	4.2E-08
9.39E-04	2.53E-05	3.3E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	0.0E+00	0.0E+00	4.1E-08	0.0E+00	0.0E+00	4.1E-08
9.17E-04	2.19E-05	3.3E-07	9.8E-07	7.8E-07	6.7E-07	3.0E-07	0.0E+00	0.0E+00	4.0E-08	0.0E+00	0.0E+00	4.0E-08
8.87E-04	1.92E-05	3.1E-07	9.5E-07	7.5E-07	6.5E-07	2.9E-07	0.0E+00	0.0E+00	3.9E-08	0.0E+00	0.0E+00	3.9E-08
8.57E-04	1.70E-05	3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	0.0E+00	0.0E+00	3.7E-08	0.0E+00	0.0E+00	3.7E-08
8.29E-04	1.52E-05	2.9E-07	8.8E-07	7.0E-07	6.0E-07	2.7E-07	0.0E+00	0.0E+00	3.6E-08	0.0E+00	0.0E+00	3.6E-08
7.96E-04	1.36E-05	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	3.5E-08	0.0E+00	0.0E+00	3.5E-08
8.16E-04	8.40E-05	3.1E-07	9.4E-07	7.4E-07	6.4E-07	2.9E-07	0.0E+00	0.0E+00	3.9E-08	0.0E+00	0.0E+00	3.9E-08
8.07E-04	6.00E-05	3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	0.0E+00	0.0E+00	3.7E-08	0.0E+00	0.0E+00	3.7E-08
8.02E-04	4.66E-05	2.9E-07	8.9E-07	7.0E-07	6.1E-07	2.7E-07	0.0E+00	0.0E+00	3.6E-08	0.0E+00	0.0E+00	3.6E-08
7.94E-04	3.78E-05	2.9E-07	8.7E-07	6.9E-07	5.9E-07	2.7E-07	0.0E+00	0.0E+00	3.6E-08	0.0E+00	0.0E+00	3.6E-08
7.84E-04	3.16E-05	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	3.5E-08	0.0E+00	0.0E+00	3.5E-08
7.81E-04	2.69E-05	2.8E-07	8.4E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	3.5E-08	0.0E+00	0.0E+00	3.5E-08
7.71E-04	2.32E-05	2.7E-07	8.3E-07	6.6E-07	5.7E-07	2.5E-07	0.0E+00	0.0E+00	3.4E-08	0.0E+00	0.0E+00	3.4E-08
7.63E-04	2.04E-05	2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	0.0E+00	0.0E+00	3.4E-08	0.0E+00	0.0E+00	3.4E-08
7.52E-04	1.80E-05	2.7E-07	8.0E-07	6.4E-07	5.5E-07	2.5E-07	0.0E+00	0.0E+00	3.3E-08	0.0E+00	0.0E+00	3.3E-08
7.36E-04	1.61E-05	2.6E-07	7.9E-07	6.2E-07	5.4E-07	2.4E-07	0.0E+00	0.0E+00	3.2E-08	0.0E+00	0.0E+00	3.2E-08
7.19E-04	1.44E-05	2.5E-07	7.7E-07	6.1E-07	5.2E-07	2.4E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
6.96E-04	1.30E-05	2.5E-07	7.4E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	3.0E-08	0.0E+00	0.0E+00	3.0E-08
9.16E-04	1.09E-05	3.2E-07	9.7E-07	7.6E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	4.0E-08	0.0E+00	0.0E+00	4.0E-08
8.54E-04	9.90E-06	3.0E-07	9.0E-07	7.1E-07	6.2E-07	2.8E-07	0.0E+00	0.0E+00	3.7E-08	0.0E+00	0.0E+00	3.7E-08
8.31E-04	1.08E-05	2.9E-07	8.8E-07	6.9E-07	6.0E-07	2.7E-07	0.0E+00	0.0E+00	3.6E-08	0.0E+00	0.0E+00	3.6E-08
7.84E-04	9.88E-06	2.7E-07	8.3E-07	6.6E-07	5.7E-07	2.5E-07	0.0E+00	0.0E+00	3.4E-08	0.0E+00	0.0E+00	3.4E-08
7.51E-04	1.07E-05	2.6E-07	8.0E-07	6.3E-07	5.4E-07	2.4E-07	0.0E+00	0.0E+00	3.3E-08	0.0E+00	0.0E+00	3.3E-08
7.13E-04	9.76E-06	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
6.75E-04	1.04E-05	2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	0.0E+00	0.0E+00	2.9E-08	0.0E+00	0.0E+00	2.9E-08
6.46E-04	9.53E-06	2.3E-07	6.9E-07	5.4E-07	4.7E-07	2.1E-07	0.0E+00	0.0E+00	2.8E-08	0.0E+00	0.0E+00	2.8E-08
1.65E-02	2.15E-05	5.7E-06	1.7E-05	1.4E-05	1.2E-05	5.3E-06	0.0E+00	0.0E+00	7.1E-07	0.0E+00	0.0E+00	7.1E-07
9.98E-03	1.89E-05	3.5E-06	1.0E-05	8.3E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	4.3E-07	0.0E+00	0.0E+00	4.3E-07
6.97E-03	1.67E-05	2.4E-06	7.3E-06	5.8E-06	5.0E-06	2.2E-06	0.0E+00	0.0E+00	3.0E-07	0.0E+00	0.0E+00	3.0E-07
5.23E-03	1.48E-05	1.8E-06	5.5E-06	4.3E-06	3.7E-06	1.7E-06	0.0E+00	0.0E+00	2.2E-07	0.0E+00	0.0E+00	2.2E-07
4.10E-03	1.33E-05	1.4E-06	4.3E-06	3.4E-06	2.9E-06	1.3E-06	0.0E+00	0.0E+00	1.8E-07	0.0E+00	0.0E+00	1.8E-07
2.38E-02	2.80E-05	8.2E-06	2.5E-05	2.0E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	1.0E-06	0.0E+00	0.0E+00	1.0E-06
1.35E-02	2.38E-05	4.7E-06	1.4E-05	1.1E-05	9.7E-06	4.3E-06	0.0E+00	0.0E+00	5.8E-07	0.0E+00	0.0E+00	5.8E-07
8.96E-03	2.05E-05	3.1E-06	9.4E-06	7.4E-06	6.4E-06	2.9E-06	0.0E+00	0.0E+00	3.8E-07	0.0E+00	0.0E+00	3.8E-07
6.48E-03	1.78E-05	2.2E-06	6.8E-06	5.4E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	2.8E-07	0.0E+00	0.0E+00	2.8E-07
4.94E-03	1.57E-05	1.7E-06	5.2E-06	4.1E-06	3.5E-06	1.6E-06	0.0E+00	0.0E+00	2.1E-07	0.0E+00	0.0E+00	2.1E-07
6.31E-03	1.47E-05	2.2E-06	6.6E-06	5.2E-06	4.5E-06	2.0E-06	0.0E+00	0.0E+00	2.7E-07	0.0E+00	0.0E+00	2.7E-07
5.05E-03	1.35E-05	1.8E-06	5.3E-06	4.2E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	2.2E-07	0.0E+00	0.0E+00	2.2E-07
4.09E-03	1.23E-05	1.4E-06	4.3E-06	3.4E-06	2.9E-06	1.3E-06	0.0E+00	0.0E+00	1.8E-07	0.0E+00	0.0E+00	1.8E-07
3.37E-03	1.12E-05	1.2E-06	3.5E-06	2.8E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	1.4E-07	0.0E+00	0.0E+00	1.4E-07

PHASE 2 CONSTRUCTION

Unmitigated	
Onsite	Offsite
7.63E-03	8.53E-05

						Concentration (AVERAGE CONC) [ug/m^3 Concentration (AVERAGE CONC) [ug/m^3]			Residential Dose					Risk by Age Group					
Discrete Receptor ID		X	Y	X, Y	Onsite	Offsite	Onsite	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
489	UCART12	440606.6	3762008.86	440606.61, 3762008.86	0.36933	0.12063	2.82E-03	1.03E-05	2.83E-03	9.8E-07	3.0E-06	2.3E-06	2.0E-06	9.1E-07	0.0E+00	0.0E+00	1.2E-07	0.0E+00	0.0E+00	1.2E-07
490	UCART12	440656.6	3762008.86	440656.61, 3762008.86	0.3133	0.11092	2.39E-03	9.47E-06	2.40E-03	8.3E-07	2.5E-06	2.0E-06	1.7E-06	7.7E-07	0.0E+00	0.0E+00	1.0E-07	0.0E+00	0.0E+00	1.0E-07
491	UCART12	440706.6	3762008.86	440706.61, 3762008.86	0.26913	0.10232	2.05E-03	8.73E-06	2.06E-03	7.1E-07	2.2E-06	1.7E-06	1.5E-06	6.6E-07	0.0E+00	0.0E+00	8.8E-08	0.0E+00	0.0E+00	8.8E-08
492	UCART12	440756.6	3762008.86	440756.61, 3762008.86	0.23379	0.0947	1.78E-03	8.08E-06	1.79E-03	6.2E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	0.0E+00	0.0E+00	7.7E-08	0.0E+00	0.0E+00	7.7E-08
493	UCART12	440806.6	3762008.86	440806.61, 3762008.86	0.20523	0.08791	1.57E-03	7.50E-06	1.57E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	6.7E-08	0.0E+00	0.0E+00	6.7E-08
494	UCART12	440856.6	3762008.86	440856.61, 3762008.86	0.18171	0.08188	1.39E-03	6.99E-06	1.39E-03	4.8E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	6.0E-08	0.0E+00	0.0E+00	6.0E-08
495	UCART12	440906.6	3762008.86	440906.61, 3762008.86	0.16214	0.07651	1.24E-03	6.53E-06	1.24E-03	4.3E-07	1.3E-06	1.0E-06	8.9E-07	4.0E-07	0.0E+00	0.0E+00	5.3E-08	0.0E+00	0.0E+00	5.3E-08
496	UCART12	440956.6	3762008.86	440956.61, 3762008.86	0.14579	0.07169	1.11E-03	6.12E-06	1.12E-03	3.9E-07	1.2E-06	9.2E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	4.8E-08	0.0E+00	0.0E+00	4.8E-08
497	UCART12	441006.6	3762008.86	441006.61, 3762008.86	0.13193	0.06735	1.01E-03	5.75E-06	1.01E-03	3.5E-07	1.1E-06	8.4E-07	7.2E-07	3.3E-07	0.0E+00	0.0E+00	4.3E-08	0.0E+00	0.0E+00	4.3E-08
498	UCART12	441056.6	3762008.86	441056.61, 3762008.86	0.12011	0.06344	9.17E-04	5.41E-06	9.22E-04	3.2E-07	9.6E-07	7.6E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	3.9E-08	0.0E+00	0.0E+00	3.9E-08
499	UCART12	441106.6	3762008.86	441106.61, 3762008.86	0.1099	0.05992	8.39E-04	5.11E-06	8.44E-04	2.9E-07	8.8E-07	7.0E-07	6.0E-07	2.7E-07	0.0E+00	0.0E+00	3.6E-08	0.0E+00	0.0E+00	3.6E-08
500	UCART12	441156.6	3762008.86	441156.61, 3762008.86	0.10104	0.05673	7.71E-04	4.84E-06	7.76E-04	2.7E-07	8.1E-07	6.4E-07	5.5E-07	2.5E-07	0.0E+00	0.0E+00	3.3E-08	0.0E+00	0.0E+00	3.3E-08
501	UCART12	440406.6	3762058.86	440406.61, 3762058.86	1.4396	0.21523	1.10E-02	1.84E-05	1.10E-02	3.8E-06	1.2E-05	9.1E-06	7.9E-06	3.5E-06	0.0E+00	0.0E+00	4.7E-07	0.0E+00	0.0E+00	4.7E-07
502	UCART12	440456.6	3762058.86	440456.61, 3762058.86	1.00958	0.19248	7.71E-03	1.64E-05	7.72E-03	2.7E-06	8.1E-06	6.4E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	3.3E-07	0.0E+00	0.0E+00	3.3E-07
503	UCART12	440506.6	3762058.86	440506.61, 3762058.86	0.75238	0.17262	5.74E-03	1.47E-05	5.76E-03	2.0E-06	6.0E-06	4.8E-06	4.1E-06	1.8E-06	0.0E+00	0.0E+00	2.5E-07	0.0E+00	0.0E+00	2.5E-07
504	UCART12	440556.6	3762058.86	440556.61, 3762058.86	0.58562	0.15542	4.47E-03	1.33E-05	4.48E-03	1.6E-06	4.7E-06	3.7E-06	3.2E-06	1.4E-06	0.0E+00	0.0E+00	1.9E-07	0.0E+00	0.0E+00	1.9E-07
505	UCART12	440606.6	3762058.86	440606.61, 3762058.86	0.47043	0.14057	3.59E-03	1.20E-05	3.60E-03	1.2E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	1.5E-07	0.0E+00	0.0E+00	1.5E-07
506	UCART12	440656.6	3762058.86	440656.61, 3762058.86	0.38697	0.12775	2.95E-03	1.09E-05	2.96E-03	1.0E-06	3.1E-06	2.4E-06	2.1E-06	9.5E-07	0.0E+00	0.0E+00	1.3E-07	0.0E+00	0.0E+00	1.3E-07
507	UCART12	440706.6	3762058.86	440706.61, 3762058.86	0.32436	0.11664	2.48E-03	9.95E-06	2.49E-03	8.6E-07	2.6E-06	2.1E-06	1.8E-06	8.0E-07	0.0E+00	0.0E+00	1.1E-07	0.0E+00	0.0E+00	1.1E-07
508	UCART12	440756.6	3762058.86	440756.61, 3762058.86	0.27632	0.10697	2.11E-03	9.13E-06	2.12E-03	7.3E-07	2.2E-06	1.7E-06	1.5E-06	6.8E-07	0.0E+00	0.0E+00	9.1E-08	0.0E+00	0.0E+00	9.1E-08
509	UCART12	440806.6	3762058.86	440806.61, 3762058.86	0.23884	0.0985	1.82E-03	8.41E-06	1.83E-03	6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.9E-07	0.0E+00	0.0E+00	7.8E-08	0.0E+00	0.0E+00	7.8E-08
510	UCART12	440856.6	3762058.86	440856.61, 3762058.86	0.20864	0.09108	1.59E-03	7.77E-06	1.60E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	6.9E-08	0.0E+00	0.0E+00	6.9E-08
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	0.18404	0.08454	1.40E-03	7.21E-06	1.41E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	6.0E-08	0.0E+00	0.0E+00	6.0E-08
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	0.16384	0.07875	1.25E-03	6.72E-06	1.26E-03	4.4E-07	1.3E-06	1.0E-06	9.0E-07	4.0E-07	0.0E+00	0.0E+00	5.4E-08	0.0E+00	0.0E+00	5.4E-08
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	0.14699	0.0736	1.12E-03	6.28E-06	1.13E-03	3.9E-07	1.2E-06	9.3E-07	8.1E-07	3.6E-07	0.0E+00	0.0E+00	4.8E-08	0.0E+00	0.0E+00	4.8E-08
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	0.13276	0.06901	1.01E-03	5.89E-06	1.02E-03	3.5E-07	1.1E-06	8.4E-07	7.3E-07	3.3E-07	0.0E+00	0.0E+00	4.4E-08	0.0E+00	0.0E+00	4.4E-08
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	0.12063	0.06489	9.21E-04	5.54E-06	9.26E-04	3.2E-07	9.7E-07	7.6E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	4.0E-08	0.0E+00	0.0E+00	4.0E-08
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	0.11021	0.06119	8.41E-04	5.22E-06	8.47E-04	2.9E-07	8.8E-07	7.0E-07	6.0E-07	2.7E-07	0.0E+00	0.0E+00	3.6E-08	0.0E+00	0.0E+00	3.6E-08

PHASE 2 CONSTRUCTION

Mitigated	
Onsite	Offsite
1.23E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Mitigated Onsite	Concentration (AVERAGE CONC) [ug/m^3 Mitigated Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
1	1	440407.9	3761497.84	440407.86, 3761497.84	0.08222	0.04787	1.01E-04	4.09E-06	1.05E-04	3.6E-08	1.1E-07	8.7E-08	7.5E-08	3.4E-08	0.0E+00	0.0E+00	4.5E-09	0.0E+00	0.0E+00	4.5E-09
2	1	439943.4	3761716.33	439943.36, 3761716.33	0.14594	0.0766	1.79E-04	6.54E-06	1.86E-04	6.4E-08	1.9E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	7.9E-09	0.0E+00	0.0E+00	7.9E-09
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	0.02839	0.04232	3.48E-05	3.61E-06	3.84E-05	1.3E-08	4.0E-08	3.2E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	0.02927	0.04496	3.59E-05	3.84E-06	3.97E-05	1.4E-08	4.2E-08	3.3E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	0.03049	0.04816	3.74E-05	4.11E-06	4.15E-05	1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	0.03158	0.05154	3.87E-05	4.40E-06	4.31E-05	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	0.03278	0.05544	4.02E-05	4.73E-06	4.49E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	0.03413	0.05998	4.19E-05	5.12E-06	4.70E-05	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	0.03561	0.06521	4.37E-05	5.57E-06	4.92E-05	1.7E-08	5.1E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	0.03692	0.07085	4.53E-05	6.05E-06	5.13E-05	1.8E-08	5.4E-08	4.2E-08	3.7E-08	1.6E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	0.03818	0.07716	4.68E-05	6.58E-06	5.34E-05	1.8E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	0.03919	0.08392	4.81E-05	7.16E-06	5.52E-05	1.9E-08	5.8E-08	4.6E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	0.04012	0.09132	4.92E-05	7.79E-06	5.70E-05	2.0E-08	6.0E-08	4.7E-08	4.1E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	0.04115	0.09999	5.05E-05	8.53E-06	5.90E-05	2.0E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	0.04222	0.10997	5.18E-05	9.38E-06	6.12E-05	2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	0.04321	0.12095	5.30E-05	1.03E-05	6.33E-05	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	0.04417	0.1328	5.42E-05	1.13E-05	6.55E-05	2.3E-08	6.8E-08	5.4E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	0.02698	0.04024	3.31E-05	3.43E-06	3.65E-05	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	0.02786	0.04262	3.42E-05	3.64E-06	3.78E-05	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	0.02894	0.0455	3.55E-05	3.88E-06	3.94E-05	1.4E-08	4.1E-08	3.3E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	0.02986	0.04841	3.66E-05	4.13E-06	4.08E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	0.03092	0.0518	3.79E-05	4.42E-06	4.23E-05	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	0.0321	0.05571	3.94E-05	4.75E-06	4.41E-05	1.5E-08	4.6E-08	3.6E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	0.03307	0.05967	4.06E-05	5.09E-06	4.57E-05	1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	0.03406	0.0641	4.18E-05	5.47E-06	4.72E-05	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	0.03522	0.06932	4.32E-05	5.92E-06	4.91E-05	1.7E-08	5.1E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	0.03619	0.07481	4.44E-05	6.38E-06	5.08E-05	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	0.0369	0.08032	4.53E-05	6.85E-06	5.21E-05	1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	0.03766	0.08659	4.62E-05	7.39E-06	5.36E-05	1.9E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	0.03841	0.09348	4.71E-05	7.98E-06	5.51E-05	1.9E-08	5.8E-08	4.5E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	0.0391	0.1008	4.80E-05	8.60E-06	5.66E-05	2.0E-08	5.9E-08	4.7E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	0.03982	0.10844	4.88E-05	9.25E-06	5.81E-05	2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	0.02572	0.03824	3.15E-05	3.26E-06	3.48E-05	1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	0.02655	0.04041	3.26E-05	3.45E-06	3.60E-05	1.2E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	0.0275	0.04297	3.37E-05	3.67E-06	3.74E-05	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	0.02827	0.04541	3.47E-05	3.88E-06	3.86E-05	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	0.0292	0.04835	3.58E-05	4.13E-06	3.99E-05	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	0.03021	0.05167	3.71E-05	4.41E-06	4.15E-05	1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	0.03099	0.05488	3.80E-05	4.68E-06	4.27E-05	1.5E-08	4.5E-08	3.5E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	0.03183	0.05849	3.90E-05	4.99E-06	4.40E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	0.03267	0.06248	4.01E-05	5.33E-06	4.54E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.5E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	0.03349	0.06685	4.11E-05	5.70E-06	4.68E-05	1.6E-08	4.9E-08	3.9E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	0.03397	0.07081	4.17E-05	6.04E-06	4.77E-05	1.7E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	0.03438	0.0749	4.22E-05	6.39E-06	4.86E-05	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	0.03488	0.07956	4.28E-05	6.79E-06	4.96E-05	1.7E-08	5.2E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	0.03548	0.08475	4.35E-05	7.23E-06	5.08E-05	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	0.03612	0.09014	4.43E-05	7.69E-06	5.20E-05	1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	0.02454	0.03628	3.01E-05	3.10E-06	3.32E-05	1.1E-08	3.5E-08	2.7E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	0.02529	0.03825	3.10E-05	3.26E-06	3.43E-05	1.2E-08	3.6E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	0.02611	0.04047	3.20E-05	3.45E-06	3.55E-05	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	0.02686	0.04271	3.29E-05	3.64E-06	3.66E-05	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	0.02764	0.04518	3.39E-05	3.86E-06	3.78E-05	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	0.0284	0.04781	3.48E-05	4.08E-06	3.89E-05	1.3E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	0.02904	0.05041	3.56E-05	4.30E-06	3.99E-05	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	0.02973	0.05334	3.65E-05	4.55E-06	4.10E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	0.03041	0.05651	3.73E-05	4.82E-06	4.21E-05	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	0.03105	0.05989	3.81E-05	5.11E-06	4.32E-05	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	0.03144	0.06299	3.86E-05	5.38E-06	4.39E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	0.03172	0.06588	3.89E-05	5.62E-06	4.45E-05	1.5E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	0.03207	0.06898	3.93E-05	5.89E-06	4.52E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.5E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	0.03247	0.07225	3.98E-05	6.17E-06	4.60E-05	1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09

PHASE 2 CONSTRUCTION

Mitigated	
Onsite	Offsite
1.23E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Mitigated Onsite	Concentration (AVERAGE CONC) [ug/m^3 Mitigated Offsite	Concentration (AVERAGE CONC) [ug/m^3 Unmitigated Onsite	Concentration (AVERAGE CONC) [ug/m^3 Unmitigated Offsite	Concentration (AVERAGE CONC) [ug/m^3 Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	0.03298	0.07575	4.05E-05	6.46E-06	4.69E-05	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	0.02337	0.03433	2.87E-05	2.93E-06	3.16E-05	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	0.02392	0.03579	2.93E-05	3.05E-06	3.24E-05	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	0.0246	0.03765	3.02E-05	3.21E-06	3.34E-05	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	0.02532	0.03975	3.11E-05	3.39E-06	3.45E-05	1.2E-08	3.6E-08	2.8E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	0.02609	0.04204	3.20E-05	3.59E-06	3.56E-05	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	0.02661	0.04399	3.26E-05	3.75E-06	3.64E-05	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	0.02713	0.04606	3.33E-05	3.93E-06	3.72E-05	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	0.02763	0.04827	3.39E-05	4.12E-06	3.80E-05	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	0.02828	0.05107	3.47E-05	4.36E-06	3.90E-05	1.4E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	0.02871	0.05351	3.52E-05	4.57E-06	3.98E-05	1.4E-08	4.2E-08	3.3E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	0.0291	0.05602	3.57E-05	4.78E-06	4.05E-05	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	0.02932	0.05809	3.60E-05	4.96E-06	4.09E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	0.02948	0.05963	3.62E-05	5.09E-06	4.12E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	0.02984	0.06205	3.66E-05	5.30E-06	4.19E-05	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	0.03034	0.06472	3.72E-05	5.52E-06	4.27E-05	1.5E-08	4.5E-08	3.5E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	0.0223	0.03244	2.74E-05	2.77E-06	3.01E-05	1.0E-08	3.1E-08	2.5E-08	2.2E-08	9.7E-09	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	0.02281	0.03374	2.80E-05	2.88E-06	3.09E-05	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.9E-09	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	0.02347	0.03558	2.88E-05	3.04E-06	3.18E-05	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	0.02405	0.03727	2.95E-05	3.18E-06	3.27E-05	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	0.02468	0.03919	3.03E-05	3.34E-06	3.36E-05	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	0.02513	0.04082	3.08E-05	3.48E-06	3.43E-05	1.2E-08	3.6E-08	2.8E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	0.02554	0.04245	3.13E-05	3.62E-06	3.50E-05	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	0.02592	0.04416	3.18E-05	3.77E-06	3.56E-05	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	0.02637	0.04623	3.23E-05	3.95E-06	3.63E-05	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	0.02678	0.04837	3.28E-05	4.13E-06	3.70E-05	1.3E-08	3.9E-08	3.1E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	0.02704	0.05013	3.32E-05	4.28E-06	3.74E-05	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	0.02723	0.05164	3.34E-05	4.41E-06	3.78E-05	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	0.02731	0.05246	3.35E-05	4.48E-06	3.80E-05	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	0.02762	0.05422	3.39E-05	4.63E-06	3.85E-05	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	0.02804	0.05623	3.44E-05	4.80E-06	3.92E-05	1.4E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	0.0213	0.03062	2.61E-05	2.61E-06	2.87E-05	9.9E-09	3.0E-08	2.4E-08	2.1E-08	9.2E-09	0.0E+00	0.0E+00	1.2E-09	0.0E+00	0.0E+00	1.2E-09
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	0.02177	0.03181	2.67E-05	2.71E-06	2.94E-05	1.0E-08	3.1E-08	2.4E-08	2.1E-08	9.5E-09	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	0.02236	0.03346	2.74E-05	2.86E-06	3.03E-05	1.0E-08	3.2E-08	2.5E-08	2.2E-08	9.7E-09	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	0.02277	0.03469	2.79E-05	2.96E-06	3.09E-05	1.1E-08	3.2E-08	2.6E-08	2.2E-08	9.9E-09	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	0.02327	0.03624	2.85E-05	3.09E-06	3.16E-05	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	0.02361	0.03744	2.90E-05	3.20E-06	3.22E-05	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	0.02394	0.03871	2.94E-05	3.30E-06	3.27E-05	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	0.02435	0.04045	2.99E-05	3.45E-06	3.33E-05	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	0.02468	0.04208	3.03E-05	3.59E-06	3.39E-05	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	0.02502	0.04377	3.07E-05	3.74E-06	3.44E-05	1.2E-08	3.6E-08	2.8E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	0.02517	0.04482	3.09E-05	3.82E-06	3.47E-05	1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	0.02539	0.04612	3.11E-05	3.94E-06	3.51E-05	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	0.02549	0.04689	3.13E-05	4.00E-06	3.53E-05	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	0.02573	0.04817	3.16E-05	4.11E-06	3.57E-05	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	0.02608	0.04966	3.20E-05	4.24E-06	3.62E-05	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	0.02036	0.02888	2.50E-05	2.46E-06	2.74E-05	9.5E-09	2.9E-08	2.3E-08	2.0E-08	8.8E-09	0.0E+00	0.0E+00	1.2E-09	0.0E+00	0.0E+00	1.2E-09
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	0.02078	0.02995	2.55E-05	2.56E-06	2.80E-05	9.7E-09	2.9E-08	2.3E-08	2.0E-08	9.0E-09	0.0E+00	0.0E+00	1.2E-09	0.0E+00	0.0E+00	1.2E-09
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	0.0213	0.03141	2.61E-05	2.68E-06	2.88E-05	1.0E-08	3.0E-08	2.4E-08	2.1E-08	9.3E-09	0.0E+00	0.0E+00	1.2E-09	0.0E+00	0.0E+00	1.2E-09
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	0.02169	0.03256	2.66E-05	2.78E-06	2.94E-05	1.0E-08	3.1E-08	2.4E-08	2.1E-08	9.4E-09	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	0.02204	0.03367	2.70E-05	2.87E-06	2.99E-05	1.0E-08	3.1E-08	2.5E-08	2.1E-08	9.6E-09	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	0.02236	0.03482	2.74E-05	2.97E-06	3.04E-05	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.8E-09	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	0.02261	0.03581	2.77E-05	3.06E-06	3.08E-05	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.9E-09	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	0.02293	0.0372	2.81E-05	3.17E-06	3.13E-05	1.1E-08	3.3E-08	2.6E-08	2.2E-08	1.0E-08	0.0E+00	0.0E+00	1.3E-09	0.0E+00	0.0E+00	1.3E-09
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	0.02316	0.03834	2.84E-05	3.27E-06	3.17E-05	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	0.0234	0.03961	2.87E-05	3.38E-06	3.21E-05	1.1E-08	3.4E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	0.02355	0.04049	2.89E-05	3.46E-06	3.23E-05	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	0.0237	0.04132	2.91E-05	3.53E-06	3.26E-05	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	0.02383	0.04212	2.92E-05	3.59E-06	3.28E-05	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.1E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	0.02406	0.04315	2.95E-05	3.68E-06	3.32E-05	1.1E-08	3.5E-08	2.7E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	0.0244	0.04438	2.99E-05	3.79E-06	3.37E-05	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	1.4E-09	0.0E+00	0.0E+00	1.4E-09

PHASE 2 CONSTRUCTION

Mitigated	
Onsite	Offsite
1.23E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	0.03487	0.05221	4.28E-05	4.46E-06	4.72E-05
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	0.03658	0.05656	4.49E-05	4.83E-06	4.97E-05
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	0.0385	0.06171	4.72E-05	5.27E-06	5.25E-05
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	0.04094	0.06813	5.02E-05	5.81E-06	5.60E-05
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	0.04317	0.07521	5.30E-05	6.42E-06	5.94E-05
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	0.04543	0.08349	5.57E-05	7.13E-06	6.29E-05
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	0.04802	0.09376	5.89E-05	8.00E-06	6.69E-05
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	0.05049	0.1059	6.19E-05	9.04E-06	7.10E-05
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	0.03323	0.05002	4.08E-05	4.27E-06	4.50E-05
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	0.03483	0.05409	4.27E-05	4.62E-06	4.73E-05
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	0.03642	0.05865	4.47E-05	5.01E-06	4.97E-05
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	0.03837	0.06414	4.71E-05	5.47E-06	5.25E-05
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	0.04038	0.07051	4.95E-05	6.02E-06	5.55E-05
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	0.04231	0.07777	5.19E-05	6.64E-06	5.85E-05
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	0.04455	0.0866	5.46E-05	7.39E-06	6.20E-05
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	0.04663	0.09691	5.72E-05	8.27E-06	6.55E-05
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	0.03156	0.04771	3.87E-05	4.07E-06	4.28E-05
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	0.03294	0.05135	4.04E-05	4.38E-06	4.48E-05
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	0.03435	0.05545	4.21E-05	4.73E-06	4.69E-05
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	0.03578	0.06015	4.39E-05	5.13E-06	4.90E-05
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	0.03792	0.06602	4.65E-05	5.63E-06	5.21E-05
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	0.03953	0.07224	4.85E-05	6.16E-06	5.47E-05
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	0.04141	0.07972	5.08E-05	6.80E-06	5.76E-05
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	0.04303	0.08809	5.28E-05	7.52E-06	6.03E-05
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	0.02994	0.04549	3.67E-05	3.88E-06	4.06E-05
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	0.03104	0.04861	3.81E-05	4.15E-06	4.22E-05
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	0.03223	0.05221	3.95E-05	4.46E-06	4.40E-05
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	0.03352	0.05626	4.11E-05	4.80E-06	4.59E-05
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	0.03499	0.06105	4.29E-05	5.21E-06	4.81E-05
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	0.03656	0.06654	4.48E-05	5.68E-06	5.05E-05
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	0.03816	0.07281	4.68E-05	6.21E-06	5.30E-05
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	0.03952	0.07965	4.85E-05	6.80E-06	5.53E-05
155	UCART3	439196	3762392.48	439196.01, 3762392.48	0.05095	0.05959	6.25E-05	5.09E-06	6.76E-05
156	UCART3	439246	3762392.48	439246.01, 3762392.48	0.05546	0.06561	6.80E-05	5.60E-06	7.36E-05
157	UCART3	439296	3762392.48	439296.01, 3762392.48	0.06071	0.07275	7.45E-05	6.21E-06	8.07E-05
158	UCART3	439346	3762392.48	439346.01, 3762392.48	0.06686	0.08132	8.20E-05	6.94E-06	8.90E-05
159	UCART3	439396	3762392.48	439396.01, 3762392.48	0.07415	0.09176	9.10E-05	7.83E-06	9.88E-05
160	UCART3	439446	3762392.48	439446.01, 3762392.48	0.08288	0.10464	1.02E-04	8.93E-06	1.11E-04
161	UCART3	439496	3762392.48	439496.01, 3762392.48	0.09334	0.12082	1.14E-04	1.03E-05	1.25E-04
162	UCART3	439546	3762392.48	439546.01, 3762392.48	0.10602	0.14155	1.30E-04	1.21E-05	1.42E-04
163	UCART3	439196	3762442.48	439196.01, 3762442.48	0.04982	0.06026	6.11E-05	5.14E-06	6.63E-05
164	UCART3	439246	3762442.48	439246.01, 3762442.48	0.0541	0.06641	6.64E-05	5.67E-06	7.20E-05
165	UCART3	439296	3762442.48	439296.01, 3762442.48	0.05901	0.07372	7.24E-05	6.29E-06	7.87E-05
166	UCART3	439346	3762442.48	439346.01, 3762442.48	0.06477	0.08251	7.94E-05	7.04E-06	8.65E-05
167	UCART3	439396	3762442.48	439396.01, 3762442.48	0.07152	0.09322	8.77E-05	7.96E-06	9.57E-05
168	UCART3	439446	3762442.48	439446.01, 3762442.48	0.07949	0.10647	9.75E-05	9.09E-06	1.07E-04
169	UCART3	439496	3762442.48	439496.01, 3762442.48	0.08901	0.12311	1.09E-04	1.05E-05	1.20E-04
170	UCART3	439546	3762442.48	439546.01, 3762442.48	0.10044	0.14444	1.23E-04	1.23E-05	1.36E-04
171	UCART3	439196	3762492.48	439196.01, 3762492.48	0.04854	0.06063	5.95E-05	5.17E-06	6.47E-05
172	UCART3	439246	3762492.48	439246.01, 3762492.48	0.05258	0.06684	6.45E-05	5.70E-06	7.02E-05
173	UCART3	439296	3762492.48	439296.01, 3762492.48	0.05717	0.07423	7.01E-05	6.33E-06	7.65E-05
174	UCART3	439346	3762492.48	439346.01, 3762492.48	0.06248	0.08312	7.66E-05	7.09E-06	8.37E-05
175	UCART3	439396	3762492.48	439396.01, 3762492.48	0.06869	0.09397	8.43E-05	8.02E-06	9.23E-05
176	UCART3	439446	3762492.48	439446.01, 3762492.48	0.07597	0.10738	9.32E-05	9.16E-06	1.02E-04
177	UCART3	439496	3762492.48	439496.01, 3762492.48	0.08445	0.1242	1.04E-04	1.06E-05	1.14E-04
178	UCART3	439546	3762492.48	439546.01, 3762492.48	0.09455	0.14575	1.16E-04	1.24E-05	1.28E-04
179	UCART3	439196	3762542.48	439196.01, 3762542.48	0.04713	0.06067	5.78E-05	5.18E-06	6.30E-05
180	UCART3	439246	3762542.48	439246.01, 3762542.48	0.05091	0.06689	6.24E-05	5.71E-06	6.82E-05
181	UCART3	439296	3762542.48	439296.01, 3762542.48	0.05518	0.07428	6.77E-05	6.34E-06	7.40E-05
182	UCART3	439346	3762542.48	439346.01, 3762542.48	0.06009	0.08318	7.37E-05	7.10E-06	8.08E-05
183	UCART3	439396	3762542.48	439396.01, 3762542.48	0.06571	0.09401	8.06E-05	8.02E-06	8.86E-05

Residential Dose						Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
1.8E-08	5.5E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
1.9E-08	5.9E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
2.1E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.1E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
2.5E-08	7.4E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
1.7E-08	5.2E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
1.8E-08	5.5E-08	4.3E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
2.1E-08	6.5E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
2.3E-08	6.8E-08	5.4E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
1.5E-08	4.5E-08	3.5E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
1.6E-08	4.9E-08	3.9E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
1.8E-08	5.5E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
2.0E-08	6.0E-08	4.8E-08	4.1E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
1.4E-08	4.2E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.7E-09	0.0E+00	0.0E+00	1.7E-09
1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
1.7E-08	5.0E-08	4.0E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
1.7E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
1.9E-08	5.8E-08	4.6E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
2.3E-08	7.1E-08	5.6E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
2.5E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	3.2E-09	0.0E+00	0.0E+00	3.2E-09
2.8E-08	8.4E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	3.5E-09	0.0E+00	0.0E+00	3.5E-09
3.1E-08	9.3E-08	7.3E-08	6.4E-08	2.9E-08	0.0E+00	0.0E+00	3.8E-09	0.0E+00	0.0E+00	3.8E-09
3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	4.2E-09	0.0E+00	0.0E+00	4.2E-09
3.8E-08	1.2E-07	9.1E-08	7.9E-08	3.6E-08	0.0E+00	0.0E+00	4.7E-09	0.0E+00	0.0E+00	4.7E-09
4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	5.3E-09	0.0E+00	0.0E+00	5.3E-09
4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	6.1E-09	0.0E+00	0.0E+00	6.1E-09
2.3E-08	6.9E-08	5.5E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	3.4E-09	0.0E+00	0.0E+00	3.4E-09
3.0E-08	9.0E-08	7.1E-08	6.2E-08	2.8E-08	0.0E+00	0.0E+00	3.7E-09	0.0E+00	0.0E+00	3.7E-09
3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	0.0E+00	0.0E+00	4.1E-09	0.0E+00	0.0E+00	4.1E-09
3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	4.6E-09	0.0E+00	0.0E+00	4.6E-09
4.1E-08	1.3E-07	9.9E-08	8.6E-08	3.8E-08	0.0E+00	0.0E+00	5.1E-09	0.0E+00	0.0E+00	5.1E-09
4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	0.0E+00	0.0E+00	5.8E-09	0.0E+00	0.0E+00	5.8E-09
2.2E-08	6.8E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
2.4E-08	7.3E-08	5.8E-08	5.0E-08	2.3E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
2.6E-08	8.0E-08	6.3E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	3.3E-09	0.0E+00	0.0E+00	3.3E-09
2.9E-08	8.8E-08	6.9E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	3.6E-09	0.0E+00	0.0E+00	3.6E-09
3.2E-08	9.6E-08	7.6E-08	6.6E-08	3.0E-08	0.0E+00	0.0E+00	4.0E-09	0.0E+00	0.0E+00	4.0E-09
3.5E-08	1.1E-07	8.5E-08	7.3E-08	3.3E-08	0.0E+00	0.0E+00	4.4E-09	0.0E+00	0.0E+00	4.4E-09
4.0E-08	1.2E-07	9.4E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	4.9E-09	0.0E+00	0.0E+00	4.9E-09
4.4E-08	1.3E-07	1.1E-07	9.2E-08	4.1E-08	0.0E+00	0.0E+00	5.5E-09	0.0E+00	0.0E+00	5.5E-09
2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	3.2E-09	0.0E+00	0.0E+00	3.2E-09
2.8E-08	8.4E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	3.5E-09	0.0E+00	0.0E+00	3.5E-09
3.1E-08	9.3E-08	7.3E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	3.8E-09	0.0E+00	0.0E+00	3.8E-09

PHASE 2 CONSTRUCTION

Mitigated	
Onsite	Offsite
1.23E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total
184	UCART3	439446	3762542.48	439446.01, 3762542.48	0.07225	0.1074	8.86E-05	9.17E-06	9.78E-05
185	UCART3	439496	3762542.48	439496.01, 3762542.48	0.07977	0.12415	9.78E-05	1.06E-05	1.08E-04
186	UCART3	439546	3762542.48	439546.01, 3762542.48	0.08868	0.14565	1.09E-04	1.24E-05	1.21E-04
187	UCART3	439196	3762592.48	439196.01, 3762592.48	0.04564	0.06038	5.60E-05	5.15E-06	6.11E-05
188	UCART3	439246	3762592.48	439246.01, 3762592.48	0.04909	0.06653	6.02E-05	5.68E-06	6.59E-05
189	UCART3	439296	3762592.48	439296.01, 3762592.48	0.05303	0.07385	6.50E-05	6.30E-06	7.14E-05
190	UCART3	439346	3762592.48	439346.01, 3762592.48	0.05752	0.08265	7.06E-05	7.05E-06	7.76E-05
191	UCART3	439396	3762592.48	439396.01, 3762592.48	0.06262	0.09334	7.68E-05	7.97E-06	8.48E-05
192	UCART3	439446	3762592.48	439446.01, 3762592.48	0.06844	0.10652	8.40E-05	9.09E-06	9.30E-05
193	UCART3	439496	3762592.48	439496.01, 3762592.48	0.07505	0.12298	9.21E-05	1.05E-05	1.03E-04
194	UCART3	439546	3762592.48	439546.01, 3762592.48	0.08282	0.14409	1.02E-04	1.23E-05	1.14E-04
195	UCART3	439196	3762642.48	439196.01, 3762642.48	0.04407	0.05977	5.41E-05	5.10E-06	5.92E-05
196	UCART3	439246	3762642.48	439246.01, 3762642.48	0.04723	0.06578	5.79E-05	5.61E-06	6.35E-05
197	UCART3	439296	3762642.48	439296.01, 3762642.48	0.05087	0.07296	6.24E-05	6.23E-06	6.86E-05
198	UCART3	439346	3762642.48	439346.01, 3762642.48	0.05495	0.08155	6.74E-05	6.96E-06	7.44E-05
199	UCART3	439396	3762642.48	439396.01, 3762642.48	0.05949	0.09196	7.30E-05	7.85E-06	8.08E-05
200	UCART3	439446	3762642.48	439446.01, 3762642.48	0.06463	0.10475	7.93E-05	8.94E-06	8.82E-05
201	UCART3	439496	3762642.48	439496.01, 3762642.48	0.07039	0.1207	8.63E-05	1.03E-05	9.66E-05
202	UCART3	439546	3762642.48	439546.01, 3762642.48	0.07698	0.1411	9.44E-05	1.20E-05	1.06E-04
203	UCART3	439196	3762692.48	439196.01, 3762692.48	0.0423	0.05884	5.19E-05	5.02E-06	5.69E-05
204	UCART3	439246	3762692.48	439246.01, 3762692.48	0.0452	0.06467	5.54E-05	5.52E-06	6.10E-05
205	UCART3	439296	3762692.48	439296.01, 3762692.48	0.04831	0.07156	5.93E-05	6.11E-06	6.54E-05
206	UCART3	439346	3762692.48	439346.01, 3762692.48	0.0521	0.07983	6.39E-05	6.81E-06	7.07E-05
207	UCART3	439396	3762692.48	439396.01, 3762692.48	0.05634	0.08986	6.91E-05	7.67E-06	7.68E-05
208	UCART3	439446	3762692.48	439446.01, 3762692.48	0.06087	0.1021	7.47E-05	8.71E-06	8.34E-05
209	UCART3	439496	3762692.48	439496.01, 3762692.48	0.06555	0.11729	8.04E-05	1.00E-05	9.04E-05
210	UCART3	439546	3762692.48	439546.01, 3762692.48	0.07119	0.13667	8.73E-05	1.17E-05	9.90E-05
211	UCART3	439196	3762742.48	439196.01, 3762742.48	0.04037	0.05759	4.95E-05	4.91E-06	5.44E-05
212	UCART3	439246	3762742.48	439246.01, 3762742.48	0.04319	0.06321	5.30E-05	5.39E-06	5.84E-05
213	UCART3	439296	3762742.48	439296.01, 3762742.48	0.04599	0.06977	5.64E-05	5.95E-06	6.24E-05
214	UCART3	439346	3762742.48	439346.01, 3762742.48	0.04931	0.07762	6.05E-05	6.62E-06	6.71E-05
215	UCART3	439396	3762742.48	439396.01, 3762742.48	0.05294	0.08708	6.49E-05	7.43E-06	7.24E-05
216	UCART3	439446	3762742.48	439446.01, 3762742.48	0.05688	0.0986	6.98E-05	8.41E-06	7.82E-05
217	UCART3	439496	3762742.48	439496.01, 3762742.48	0.06082	0.11277	7.46E-05	9.62E-06	8.42E-05
218	UCART3	439546	3762742.48	439546.01, 3762742.48	0.06561	0.13084	8.05E-05	1.12E-05	9.16E-05
219	UCART3	439196	3762792.48	439196.01, 3762792.48	0.03851	0.05607	4.72E-05	4.79E-06	5.20E-05
220	UCART3	439246	3762792.48	439246.01, 3762792.48	0.04125	0.06144	5.06E-05	5.24E-06	5.58E-05
221	UCART3	439296	3762792.48	439296.01, 3762792.48	0.04365	0.06759	5.35E-05	5.77E-06	5.93E-05
222	UCART3	439346	3762792.48	439346.01, 3762792.48	0.04645	0.0749	5.70E-05	6.39E-06	6.34E-05
223	UCART3	439396	3762792.48	439396.01, 3762792.48	0.04957	0.08368	6.08E-05	7.14E-06	6.79E-05
224	UCART3	439446	3762792.48	439446.01, 3762792.48	0.0531	0.09438	6.51E-05	8.05E-06	7.32E-05
225	UCART3	439496	3762792.48	439496.01, 3762792.48	0.05649	0.10737	6.93E-05	9.16E-06	7.85E-05
226	UCART3	439546	3762792.48	439546.01, 3762792.48	0.06051	0.12384	7.42E-05	1.06E-05	8.48E-05
227	UCART3	439196	3762842.48	439196.01, 3762842.48	0.0368	0.05434	4.51E-05	4.64E-06	4.98E-05
228	UCART3	439246	3762842.48	439246.01, 3762842.48	0.03918	0.05937	4.81E-05	5.07E-06	5.31E-05
229	UCART3	439296	3762842.48	439296.01, 3762842.48	0.04151	0.06513	5.09E-05	5.56E-06	5.65E-05
230	UCART3	439346	3762842.48	439346.01, 3762842.48	0.04402	0.07189	5.40E-05	6.14E-06	6.01E-05
231	UCART3	439396	3762842.48	439396.01, 3762842.48	0.04667	0.07992	5.72E-05	6.82E-06	6.41E-05
232	UCART3	439446	3762842.48	439446.01, 3762842.48	0.04962	0.0896	6.09E-05	7.65E-06	6.85E-05
233	UCART3	439496	3762842.48	439496.01, 3762842.48	0.0525	0.1012	6.44E-05	8.64E-06	7.30E-05
234	UCART3	439546	3762842.48	439546.01, 3762842.48	0.05582	0.11578	6.85E-05	9.88E-06	7.84E-05
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	0.10396	0.1598	1.28E-04	1.36E-05	1.41E-04
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	0.11814	0.19277	1.45E-04	1.65E-05	1.61E-04
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	0.13548	0.23797	1.66E-04	2.03E-05	1.86E-04
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	0.15692	0.30255	1.92E-04	2.58E-05	2.18E-04
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	0.18367	0.40033	2.25E-04	3.42E-05	2.59E-04
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	0.21791	0.5639	2.67E-04	4.81E-05	3.15E-04
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	0.26253	0.89698	3.22E-04	7.65E-05	3.99E-04
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	0.09721	0.16036	1.19E-04	1.37E-05	1.33E-04
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	0.10953	0.19343	1.34E-04	1.65E-05	1.51E-04
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	0.12427	0.23865	1.52E-04	2.04E-05	1.73E-04

Residential Dose						Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.1E-08	0.0E+00	0.0E+00	4.2E-09	0.0E+00	0.0E+00	4.2E-09
3.8E-08	1.1E-07	9.0E-08	7.7E-08	3.5E-08	0.0E+00	0.0E+00	4.6E-09	0.0E+00	0.0E+00	4.6E-09
4.2E-08	1.3E-07	1.0E-07	8.7E-08	3.9E-08	0.0E+00	0.0E+00	5.2E-09	0.0E+00	0.0E+00	5.2E-09
2.1E-08	6.4E-08	5.0E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
2.3E-08	6.9E-08	5.4E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
2.7E-08	8.1E-08	6.4E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	3.3E-09	0.0E+00	0.0E+00	3.3E-09
2.9E-08	8.9E-08	7.0E-08	6.1E-08	2.7E-08	0.0E+00	0.0E+00	3.6E-09	0.0E+00	0.0E+00	3.6E-09
3.2E-08	9.7E-08	7.7E-08	6.6E-08	3.0E-08	0.0E+00	0.0E+00	4.0E-09	0.0E+00	0.0E+00	4.0E-09
3.6E-08	1.1E-07	8.5E-08	7.3E-08	3.3E-08	0.0E+00	0.0E+00	4.4E-09	0.0E+00	0.0E+00	4.4E-09
3.9E-08	1.2E-07	9.4E-08	8.1E-08	3.7E-08	0.0E+00	0.0E+00	4.9E-09	0.0E+00	0.0E+00	4.9E-09
2.0E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
2.6E-08	7.8E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	3.2E-09	0.0E+00	0.0E+00	3.2E-09
2.8E-08	8.4E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	3.5E-09	0.0E+00	0.0E+00	3.5E-09
3.1E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	3.8E-09	0.0E+00	0.0E+00	3.8E-09
3.3E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	0.0E+00	0.0E+00	4.1E-09	0.0E+00	0.0E+00	4.1E-09
3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	4.6E-09	0.0E+00	0.0E+00	4.6E-09
2.0E-08	5.9E-08	4.7E-08	4.1E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
2.1E-08	6.4E-08	5.0E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
2.3E-08	6.8E-08	5.4E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
2.4E-08	7.4E-08	5.8E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
2.7E-08	8.0E-08	6.3E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	3.3E-09	0.0E+00	0.0E+00	3.3E-09
2.9E-08	8.7E-08	6.9E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	3.6E-09	0.0E+00	0.0E+00	3.6E-09
3.1E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	0.0E+00	0.0E+00	3.9E-09	0.0E+00	0.0E+00	3.9E-09
3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	4.2E-09	0.0E+00	0.0E+00	4.2E-09
1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
2.2E-08	6.5E-08	5.1E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	3.3E-09	0.0E+00	0.0E+00	3.3E-09
2.9E-08	8.8E-08	7.0E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	3.6E-09	0.0E+00	0.0E+00	3.6E-09
3.2E-08	9.6E-08	7.6E-08	6.5E-08	2.9E-08	0.0E+00	0.0E+00	3.9E-09	0.0E+00	0.0E+00	3.9E-09
1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
2.1E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.4E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	3.4E-09	0.0E+00	0.0E+00	3.4E-09
2.9E-08	8.9E-08	7.0E-08	6.1E-08	2.7E-08	0.0E+00	0.0E+00	3.6E-09	0.0E+00	0.0E+00	3.6E-09
1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
1.8E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
2.0E-08	5.9E-08	4.7E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	3.4E-09	0.0E+00	0.0E+00	3.4E-09
4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	6.0E-09	0.0E+00	0.0E+00	6.0E-09
5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	0.0E+00	0.0E+00	6.9E-09	0.0E+00	0.0E+00	6.9E-09
6.5E-08	1.9E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	8.0E-09	0.0E+00	0.0E+00	8.0E-09
7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.0E-08	0.0E+00	0.0E+00	9.3E-09	0.0E+00	0.0E+00	9.3E-09
9.0E-08	2.7E-07	2.1E-07	1.9E-07	8.3E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
1.1E-07	3.3E-07	2.6E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	1.4E-08	0.0E+00	0.0E+00	1.4E-08
1.4E-07	4.2E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	0.0E+00	0.0E+00	5.7E-09	0.0E+00	0.0E+00	5.7E-09
5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	6.5E-09	0.0E+00	0.0E+00	6.5E-09
6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.6E-08	0.0E+00	0.0E+00	7.4E-09	0.0E+00	0.0E+00	7.4E-09

PHASE 2 CONSTRUCTION

Mitigated	
Onsite	Offsite
1.23E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3] Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	0<2	2<9	9<16	16<30	Risk by Age Group 3rd Tri	0<2	2<9	9<16	16<30	Total Risk
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	0.14215	0.30312	1.74E-04	2.59E-05	2.00E-04	6.9E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	8.6E-09	0.0E+00	0.0E+00	8.6E-09
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	0.16431	0.40084	2.02E-04	3.42E-05	2.36E-04	8.2E-08	2.5E-07	1.9E-07	1.7E-07	7.6E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	0.19253	0.56454	2.36E-04	4.82E-05	2.84E-04	9.8E-08	3.0E-07	2.3E-07	2.0E-07	9.1E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	0.22816	0.89566	2.80E-04	7.64E-05	3.56E-04	1.2E-07	3.7E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	0.09052	0.15925	1.11E-04	1.36E-05	1.25E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	5.3E-09	0.0E+00	0.0E+00	5.3E-09
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	0.10104	0.19186	1.24E-04	1.64E-05	1.40E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	6.0E-09	0.0E+00	0.0E+00	6.0E-09
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	0.11346	0.23646	1.39E-04	2.02E-05	1.59E-04	5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	6.8E-09	0.0E+00	0.0E+00	6.8E-09
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	0.12823	0.30015	1.57E-04	2.56E-05	1.83E-04	6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	7.8E-09	0.0E+00	0.0E+00	7.8E-09
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	0.14639	0.39664	1.80E-04	3.38E-05	2.13E-04	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	9.1E-09	0.0E+00	0.0E+00	9.1E-09
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	0.16894	0.55744	2.07E-04	4.76E-05	2.55E-04	8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	0.19525	0.88012	2.39E-04	7.51E-05	3.15E-04	1.1E-07	3.3E-07	2.6E-07	2.2E-07	1.0E-07	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	0.08399	0.15648	1.03E-04	1.34E-05	1.16E-04	4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	0.0E+00	0.0E+00	5.0E-09	0.0E+00	0.0E+00	5.0E-09
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	0.09274	0.18815	1.14E-04	1.61E-05	1.30E-04	4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	0.0E+00	0.0E+00	5.6E-09	0.0E+00	0.0E+00	5.6E-09
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	0.10309	0.23154	1.26E-04	1.98E-05	1.46E-04	5.1E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	0.0E+00	0.0E+00	6.3E-09	0.0E+00	0.0E+00	6.3E-09
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	0.11485	0.29344	1.41E-04	2.50E-05	1.66E-04	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	7.1E-09	0.0E+00	0.0E+00	7.1E-09
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	0.12945	0.38754	1.59E-04	3.31E-05	1.92E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.2E-08	0.0E+00	0.0E+00	8.2E-09	0.0E+00	0.0E+00	8.2E-09
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	0.1467	0.54409	1.80E-04	4.64E-05	2.26E-04	7.8E-08	2.4E-07	1.9E-07	1.6E-07	7.3E-08	0.0E+00	0.0E+00	9.7E-09	0.0E+00	0.0E+00	9.7E-09
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	0.16634	0.85534	2.04E-04	7.30E-05	2.77E-04	9.6E-08	2.9E-07	2.3E-07	2.0E-07	8.9E-08	0.0E+00	0.0E+00	1.2E-08	0.0E+00	0.0E+00	1.2E-08
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	0.07746	0.15207	9.50E-05	1.30E-05	1.08E-04	3.7E-08	1.1E-07	8.9E-08	7.7E-08	3.5E-08	0.0E+00	0.0E+00	4.6E-09	0.0E+00	0.0E+00	4.6E-09
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	0.08422	0.18209	1.03E-04	1.55E-05	1.19E-04	4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	0.0E+00	0.0E+00	5.1E-09	0.0E+00	0.0E+00	5.1E-09
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	0.09273	0.22352	1.14E-04	1.91E-05	1.33E-04	4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.3E-08	0.0E+00	0.0E+00	5.7E-09	0.0E+00	0.0E+00	5.7E-09
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	0.10246	0.28276	1.26E-04	2.41E-05	1.50E-04	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	6.4E-09	0.0E+00	0.0E+00	6.4E-09
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	0.11335	0.37272	1.39E-04	3.18E-05	1.71E-04	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.5E-08	0.0E+00	0.0E+00	7.3E-09	0.0E+00	0.0E+00	7.3E-09
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	0.1265	0.52421	1.55E-04	4.47E-05	2.00E-04	6.9E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	8.6E-09	0.0E+00	0.0E+00	8.6E-09
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	0.14165	0.8291	1.74E-04	7.08E-05	2.45E-04	8.5E-08	2.6E-07	2.0E-07	1.7E-07	7.9E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	0.03264	0.02832	4.00E-05	2.42E-06	4.25E-05	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	0.03427	0.02939	4.20E-05	2.51E-06	4.45E-05	1.5E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	0.03607	0.03053	4.42E-05	2.61E-06	4.68E-05	1.6E-08	4.9E-08	3.9E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	0.03801	0.03171	4.66E-05	2.71E-06	4.93E-05	1.7E-08	5.2E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	0.0401	0.03292	4.92E-05	2.81E-06	5.20E-05	1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	0.04235	0.03415	5.19E-05	2.91E-06	5.49E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	0.04474	0.03539	5.49E-05	3.02E-06	5.79E-05	2.0E-08	6.1E-08	4.8E-08	4.1E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	0.04731	0.03663	5.80E-05	3.13E-06	6.12E-05	2.1E-08	6.4E-08	5.0E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	0.04998	0.03782	6.13E-05	3.23E-06	6.45E-05	2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	0.03389	0.02949	4.16E-05	2.52E-06	4.41E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	0.03571	0.0307	4.38E-05	2.62E-06	4.64E-05	1.6E-08	4.9E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	0.03772	0.032	4.63E-05	2.73E-06	4.90E-05	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	0.03984	0.03329	4.89E-05	2.84E-06	5.17E-05	1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	0.04216	0.03464	5.17E-05	2.96E-06	5.47E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	0.04467	0.03602	5.48E-05	3.07E-06	5.79E-05	2.0E-08	6.0E-08	4.8E-08	4.1E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	0.04738	0.03743	5.81E-05	3.19E-06	6.13E-05	2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	0.05035	0.03889	6.18E-05	3.32E-06	6.51E-05	2.3E-08	6.8E-08	5.4E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	0.05348	0.0403	6.56E-05	3.44E-06	6.90E-05	2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	0.03517	0.03071	4.31E-05	2.62E-06	4.58E-05	1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	0.03716	0.03205	4.56E-05	2.74E-06	4.83E-05	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	0.03935	0.03347	4.83E-05	2.86E-06	5.11E-05	1.8E-08	5.3E-08	4.2E-08	3.7E-08	1.6E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	0.0417	0.03492	5.12E-05	2.98E-06	5.41E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	0.04427	0.03643	5.43E-05	3.11E-06	5.74E-05	2.0E-08	6.0E-08	4.7E-08	4.1E-08	1.8E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	0.04713	0.03804	5.78E-05	3.25E-06	6.11E-05	2.1E-08	6.4E-08	5.0E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	0.05024	0.03968	6.16E-05	3.39E-06	6.50E-05	2.3E-08	6.8E-08	5.4E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	0.05363	0.04135	6.58E-05	3.53E-06	6.93E-05	2.4E-08	7.2E-08	5.7E-08	5.0E-08	2.2E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	0.0573	0.04304	7.03E-05	3.67E-06	7.40E-05	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	3.2E-09	0.0E+00	0.0E+00	3.2E-09
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	0.03648	0.03199	4.47E-05	2.73E-06	4.75E-05	1.6E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	2.0E-09	0.0E+00	0.0E+00	2.0E-09
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	0.03863	0.03345	4.74E-05	2.85E-06	5.02E-05	1.7E-08	5.3E-08	4.1E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	0.04103	0.03503	5.03E-05	2.99E-06	5.33E-05	1.8E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	0.04366	0.0367	5.36E-05	3.13E-06	5.67E-05	2.0E-08	5.9E-08	4.7E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	0.04654	0.03841	5.71E-05	3.28E-06	6.04E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	0.04977	0.04026	6.10E-05	3.44E-06	6.45E-05	2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	0.05334	0.04218	6.54E-05	3.60E-06	6.90E-05	2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	0.05723	0.04411	7.02E-05	3.76E-06	7.40E-05	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	3.2E-09	0.0E+00	0.0E+00	3.2E-09
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	0.06155	0.04612	7.55E-05	3.94E-06	7.94E-05	2.7E-08	8.3E-08	6.6E-08	5.7E-08	2.6E-08	0.0E+00	0.0E+00	3.4E-09	0.0E+00	0.0E+00	3.4E-09

PHASE 2 CONSTRUCTION

Mitigated	
Onsite	Offsite
1.23E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	0.0378	0.03333	4.64E-05	2.84E-06	4.92E-05	1.7E-08	5.1E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	0.04016	0.03496	4.93E-05	2.98E-06	5.22E-05	1.8E-08	5.5E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	0.04279	0.03672	5.25E-05	3.13E-06	5.56E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	0.04571	0.0386	5.61E-05	3.29E-06	5.94E-05	2.1E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	0.04894	0.04057	6.00E-05	3.46E-06	6.35E-05	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	0.05258	0.04269	6.45E-05	3.64E-06	6.81E-05	2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	0.05664	0.0449	6.95E-05	3.83E-06	7.33E-05	2.5E-08	7.7E-08	6.1E-08	5.2E-08	2.4E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	0.06118	0.04722	7.50E-05	4.03E-06	7.91E-05	2.7E-08	8.3E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	3.4E-09	0.0E+00	0.0E+00	3.4E-09
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	0.06623	0.0496	8.12E-05	4.23E-06	8.55E-05	3.0E-08	8.9E-08	7.1E-08	6.1E-08	2.7E-08	0.0E+00	0.0E+00	3.7E-09	0.0E+00	0.0E+00	3.7E-09
315	UCART5	439152.4	3761698.92	439152.35, 3761698.92	0.03915	0.03473	4.80E-05	2.96E-06	5.10E-05	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	2.2E-09	0.0E+00	0.0E+00	2.2E-09
316	UCART5	439202.4	3761698.92	439202.35, 3761698.92	0.0417	0.03652	5.12E-05	3.12E-06	5.43E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
317	UCART5	439252.4	3761698.92	439252.35, 3761698.92	0.04456	0.03846	5.47E-05	3.28E-06	5.79E-05	2.0E-08	6.1E-08	4.8E-08	4.1E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
318	UCART5	439302.4	3761698.92	439302.35, 3761698.92	0.04779	0.04058	5.86E-05	3.46E-06	6.21E-05	2.1E-08	6.5E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
319	UCART5	439352.4	3761698.92	439352.35, 3761698.92	0.05142	0.04287	6.31E-05	3.66E-06	6.67E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.1E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
320	UCART5	439402.4	3761698.92	439402.35, 3761698.92	0.05554	0.04533	6.81E-05	3.87E-06	7.20E-05	2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	0.06011	0.04785	7.37E-05	4.08E-06	7.78E-05	2.7E-08	8.1E-08	6.4E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	3.3E-09	0.0E+00	0.0E+00	3.3E-09
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	0.06538	0.05061	8.02E-05	4.32E-06	8.45E-05	2.9E-08	8.8E-08	7.0E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	3.6E-09	0.0E+00	0.0E+00	3.6E-09
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	0.07132	0.05347	8.75E-05	4.56E-06	9.20E-05	3.2E-08	9.6E-08	7.6E-08	6.6E-08	3.0E-08	0.0E+00	0.0E+00	3.9E-09	0.0E+00	0.0E+00	3.9E-09
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	0.04051	0.03618	4.97E-05	3.09E-06	5.28E-05	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	0.04329	0.03818	5.31E-05	3.26E-06	5.64E-05	2.0E-08	5.9E-08	4.7E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	0.04638	0.04032	5.69E-05	3.44E-06	6.03E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	0.04993	0.04271	6.12E-05	3.64E-06	6.49E-05	2.2E-08	6.8E-08	5.4E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	0.05395	0.04529	6.62E-05	3.87E-06	7.00E-05	2.4E-08	7.3E-08	5.8E-08	5.0E-08	2.2E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	0.05854	0.04808	7.18E-05	4.10E-06	7.59E-05	2.6E-08	7.9E-08	6.3E-08	5.4E-08	2.4E-08	0.0E+00	0.0E+00	3.3E-09	0.0E+00	0.0E+00	3.3E-09
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	0.06376	0.05106	7.82E-05	4.36E-06	8.26E-05	2.9E-08	8.6E-08	6.8E-08	5.9E-08	2.7E-08	0.0E+00	0.0E+00	3.5E-09	0.0E+00	0.0E+00	3.5E-09
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	0.06975	0.05424	8.56E-05	4.63E-06	9.02E-05	3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	0.0E+00	0.0E+00	3.9E-09	0.0E+00	0.0E+00	3.9E-09
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	0.07673	0.05771	9.41E-05	4.92E-06	9.90E-05	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	4.2E-09	0.0E+00	0.0E+00	4.2E-09
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	0.04188	0.03769	5.14E-05	3.22E-06	5.46E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	0.04489	0.03991	5.51E-05	3.41E-06	5.85E-05	2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	0.04828	0.04232	5.92E-05	3.61E-06	6.28E-05	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	0.05217	0.04501	6.40E-05	3.84E-06	6.78E-05	2.3E-08	7.1E-08	5.6E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	0.05657	0.04789	6.94E-05	4.09E-06	7.35E-05	2.5E-08	7.7E-08	6.1E-08	5.2E-08	2.4E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	0.06167	0.05108	7.56E-05	4.36E-06	8.00E-05	2.8E-08	8.4E-08	6.6E-08	5.7E-08	2.6E-08	0.0E+00	0.0E+00	3.4E-09	0.0E+00	0.0E+00	3.4E-09
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	0.06763	0.05461	8.30E-05	4.66E-06	8.76E-05	3.0E-08	9.2E-08	7.2E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	3.8E-09	0.0E+00	0.0E+00	3.8E-09
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	0.07446	0.05833	9.13E-05	4.98E-06	9.63E-05	3.3E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	0.0E+00	0.0E+00	4.1E-09	0.0E+00	0.0E+00	4.1E-09
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	0.08261	0.0625	1.01E-04	5.33E-06	1.07E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	4.6E-09	0.0E+00	0.0E+00	4.6E-09
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	0.04326	0.03926	5.31E-05	3.35E-06	5.64E-05	2.0E-08	5.9E-08	4.7E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	2.4E-09	0.0E+00	0.0E+00	2.4E-09
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	0.0465	0.04171	5.70E-05	3.56E-06	6.06E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	0.05015	0.04437	6.15E-05	3.79E-06	6.53E-05	2.3E-08	6.8E-08	5.4E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	0.05438	0.04737	6.67E-05	4.04E-06	7.07E-05	2.4E-08	7.4E-08	5.8E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	0.05922	0.05063	7.26E-05	4.32E-06	7.70E-05	2.7E-08	8.0E-08	6.4E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	3.3E-09	0.0E+00	0.0E+00	3.3E-09
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	0.06495	0.05436	7.97E-05	4.64E-06	8.43E-05	2.9E-08	8.8E-08	7.0E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	3.6E-09	0.0E+00	0.0E+00	3.6E-09
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	0.0716	0.05842	8.78E-05	4.99E-06	9.28E-05	3.2E-08	9.7E-08	7.7E-08	6.6E-08	3.0E-08	0.0E+00	0.0E+00	4.0E-09	0.0E+00	0.0E+00	4.0E-09
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	0.0794	0.06282	9.74E-05	5.36E-06	1.03E-04	3.6E-08	1.1E-07	8.5E-08	7.3E-08	3.3E-08	0.0E+00	0.0E+00	4.4E-09	0.0E+00	0.0E+00	4.4E-09
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	0.08885	0.06784	1.09E-04	5.79E-06	1.15E-04	4.0E-08	1.2E-07	9.5E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	4.9E-09	0.0E+00	0.0E+00	4.9E-09
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	0.04462	0.0409	5.47E-05	3.49E-06	5.82E-05	2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	2.5E-09	0.0E+00	0.0E+00	2.5E-09
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	0.04808	0.04358	5.90E-05	3.72E-06	6.27E-05	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	0.05202	0.04654	6.38E-05	3.97E-06	6.78E-05	2.3E-08	7.1E-08	5.6E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	0.05664	0.04992	6.95E-05	4.26E-06	7.37E-05	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	3.2E-09	0.0E+00	0.0E+00	3.2E-09
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	0.06197	0.05365	7.60E-05	4.58E-06	8.06E-05	2.8E-08	8.4E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	3.5E-09	0.0E+00	0.0E+00	3.5E-09
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	0.06824	0.05783	8.37E-05	4.94E-06	8.86E-05	3.1E-08	9.3E-08	7.3E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	3.8E-09	0.0E+00	0.0E+00	3.8E-09
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	0.07573	0.06261	9.29E-05	5.34E-06	9.82E-05	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	0.0E+00	0.0E+00	4.2E-09	0.0E+00	0.0E+00	4.2E-09
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	0.08466	0.06792	1.04E-04	5.80E-06	1.10E-04	3.8E-08	1.1E-07	9.1E-08	7.8E-08	3.5E-08	0.0E+00	0.0E+00	4.7E-09	0.0E+00	0.0E+00	4.7E-09
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	0.09549	0.07388	1.17E-04	6.30E-06	1.23E-04	4.3E-08	1.3E-07	1.0E-07	8.8E-08	4.0E-08	0.0E+00	0.0E+00	5.3E-09	0.0E+00	0.0E+00	5.3E-09
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	0.04588	0.04258	5.63E-05	3.63E-06	5.99E-05	2.1E-08	6.3E-08	4.9E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	0.04956	0.04551	6.08E-05	3.88E-06	6.47E-05	2.2E-08	6.8E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	0.05379	0.04877	6.60E-05	4.16E-06	7.01E-05	2.4E-08	7.3E-08	5.8E-08	5.0E-08	2.3E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	0.05878	0.05256	7.21E-05	4.49E-06	7.66E-05	2.7E-08	8.0E-08	6.3E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	3.3E-09	0.0E+00	0.0E+00	3.3E-09
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	0.0646	0.05679	7.92E-05	4.85E-06	8.41E-05	2.9E-08	8.8E-08	6.9E-08	6.0E-08	2.7E-08	0.0E+00	0.0E+00	3.6E-09	0.0E+00	0.0E+00	3.6E-09
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	0.07147	0.06155	8.77E-05	5.25E-06	9.29E-05	3.2E-08	9.7E-08	7.7E-08	6.6E-08	3.0E-08	0.0E+00	0.0E+00	4.0E-09	0.0E+00	0.0E+00	4.0E-09
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	0.07978	0.06708	9.79E-05	5.72E-06	1.04E-04	3.6E-08	1.1E-07	8.6E-08	7.4E-08	3.3E-08	0.0E+00	0.0E+00	4.4E-09	0.0E+00	0.0E+00	4.4E-09

PHASE 2 CONSTRUCTION

Mitigated	
Onsite	Offsite
1.23E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	0.08985	0.07336	1.10E-04	6.26E-06	1.16E-04
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	0.10224	0.08054	1.25E-04	6.87E-06	1.32E-04
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	0.047	0.04428	5.77E-05	3.78E-06	6.14E-05
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	0.05089	0.04747	6.24E-05	4.05E-06	6.65E-05
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	0.05538	0.05107	6.79E-05	4.36E-06	7.23E-05
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	0.06072	0.05528	7.45E-05	4.72E-06	7.92E-05
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	0.067	0.06006	8.22E-05	5.13E-06	8.73E-05
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	0.07446	0.06546	9.13E-05	5.59E-06	9.69E-05
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	0.08354	0.07178	1.02E-04	6.13E-06	1.09E-04
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	0.09471	0.07912	1.16E-04	6.75E-06	1.23E-04
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	0.1087	0.08772	1.33E-04	7.49E-06	1.41E-04
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	0.04793	0.04598	5.88E-05	3.92E-06	6.27E-05
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	0.05202	0.0495	6.38E-05	4.22E-06	6.80E-05
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	0.05677	0.05351	6.96E-05	4.57E-06	7.42E-05
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	0.06237	0.05811	7.65E-05	4.96E-06	8.15E-05
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	0.06902	0.06341	8.47E-05	5.41E-06	9.01E-05
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	0.07701	0.06956	9.45E-05	5.94E-06	1.00E-04
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	0.0868	0.0768	1.06E-04	6.55E-06	1.13E-04
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	0.09896	0.08534	1.21E-04	7.28E-06	1.29E-04
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	0.11438	0.09553	1.40E-04	8.15E-06	1.48E-04
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	0.05137	0.03781	6.30E-05	3.23E-06	6.62E-05
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	0.05395	0.03875	6.62E-05	3.31E-06	6.95E-05
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	0.05648	0.0396	6.93E-05	3.38E-06	7.27E-05
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	0.05891	0.04036	7.23E-05	3.44E-06	7.57E-05
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	0.06114	0.04102	7.50E-05	3.50E-06	7.85E-05
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	0.06323	0.04165	7.76E-05	3.55E-06	8.11E-05
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	0.05529	0.04041	6.78E-05	3.45E-06	7.13E-05
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	0.05837	0.04153	7.16E-05	3.54E-06	7.51E-05
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	0.06146	0.04257	7.54E-05	3.63E-06	7.90E-05
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	0.06447	0.0435	7.91E-05	3.71E-06	8.28E-05
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	0.0673	0.0443	8.26E-05	3.78E-06	8.63E-05
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	0.06998	0.04509	8.58E-05	3.85E-06	8.97E-05
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	0.05966	0.04332	7.32E-05	3.70E-06	7.69E-05
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	0.06339	0.04469	7.78E-05	3.81E-06	8.16E-05
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	0.0672	0.04596	8.24E-05	3.92E-06	8.64E-05
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	0.07099	0.04714	8.71E-05	4.02E-06	9.11E-05
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	0.0746	0.04816	9.15E-05	4.11E-06	9.56E-05
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	0.07804	0.0491	9.57E-05	4.19E-06	9.99E-05
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	0.06458	0.04661	7.92E-05	3.98E-06	8.32E-05
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	0.06912	0.0483	8.48E-05	4.12E-06	8.89E-05
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	0.07384	0.04989	9.06E-05	4.26E-06	9.48E-05
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	0.07863	0.05136	9.64E-05	4.38E-06	1.01E-04
409	UCART6	439816.6	3761570.65	439816.61, 3761570.65	0.0833	0.05266	1.02E-04	4.49E-06	1.07E-04
410	UCART6	439866.6	3761570.65	439866.61, 3761570.65	0.08774	0.05381	1.08E-04	4.59E-06	1.12E-04
411	UCART7	440451.1	3762893.83	440451.14, 3762893.83	0.09455	0.71336	1.16E-04	6.09E-05	1.77E-04
412	UCART7	440501.1	3762893.83	440501.14, 3762893.83	0.09364	0.55696	1.15E-04	4.75E-05	1.62E-04
413	UCART7	440551.1	3762893.83	440551.14, 3762893.83	0.09303	0.45329	1.14E-04	3.87E-05	1.53E-04
414	UCART7	440601.1	3762893.83	440601.14, 3762893.83	0.09201	0.37853	1.13E-04	3.23E-05	1.45E-04
415	UCART7	440651.1	3762893.83	440651.14, 3762893.83	0.09132	0.32264	1.12E-04	2.75E-05	1.40E-04
416	UCART7	440701.1	3762893.83	440701.14, 3762893.83	0.09071	0.27922	1.11E-04	2.38E-05	1.35E-04
417	UCART7	440751.1	3762893.83	440751.14, 3762893.83	0.09056	0.24509	1.11E-04	2.09E-05	1.32E-04
418	UCART7	440801.1	3762893.83	440801.14, 3762893.83	0.08961	0.21685	1.10E-04	1.85E-05	1.28E-04
419	UCART7	440851.1	3762893.83	440851.14, 3762893.83	0.08905	0.1937	1.09E-04	1.65E-05	1.26E-04
420	UCART7	440451.1	3762943.83	440451.14, 3762943.83	0.07941	0.48441	9.74E-05	4.13E-05	1.39E-04
421	UCART7	440501.1	3762943.83	440501.14, 3762943.83	0.07806	0.41652	9.58E-05	3.55E-05	1.31E-04
422	UCART7	440551.1	3762943.83	440551.14, 3762943.83	0.07744	0.36019	9.50E-05	3.07E-05	1.26E-04
423	UCART7	440601.1	3762943.83	440601.14, 3762943.83	0.07646	0.31276	9.38E-05	2.67E-05	1.20E-04
424	UCART7	440651.1	3762943.83	440651.14, 3762943.83	0.07627	0.27484	9.36E-05	2.35E-05	1.17E-04
425	UCART7	440701.1	3762943.83	440701.14, 3762943.83	0.07618	0.24346	9.34E-05	2.08E-05	1.14E-04
426	UCART7	440751.1	3762943.83	440751.14, 3762943.83	0.07668	0.21786	9.41E-05	1.86E-05	1.13E-04
427	UCART7	440801.1	3762943.83	440801.14, 3762943.83	0.07561	0.19498	9.27E-05	1.66E-05	1.09E-04

Residential Dose						Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
4.0E-08	1.2E-07	9.6E-08	8.3E-08	3.7E-08	0.0E+00	0.0E+00	5.0E-09	0.0E+00	0.0E+00	5.0E-09
4.6E-08	1.4E-07	1.1E-07	9.5E-08	4.2E-08	0.0E+00	0.0E+00	5.7E-09	0.0E+00	0.0E+00	5.7E-09
2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
2.3E-08	6.9E-08	5.5E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
2.7E-08	8.3E-08	6.5E-08	5.7E-08	2.5E-08	0.0E+00	0.0E+00	3.4E-09	0.0E+00	0.0E+00	3.4E-09
3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	0.0E+00	0.0E+00	3.7E-09	0.0E+00	0.0E+00	3.7E-09
3.4E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	0.0E+00	0.0E+00	4.1E-09	0.0E+00	0.0E+00	4.1E-09
3.8E-08	1.1E-07	9.0E-08	7.8E-08	3.5E-08	0.0E+00	0.0E+00	4.6E-09	0.0E+00	0.0E+00	4.6E-09
4.3E-08	1.3E-07	1.0E-07	8.8E-08	3.9E-08	0.0E+00	0.0E+00	5.3E-09	0.0E+00	0.0E+00	5.3E-09
4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	6.0E-09	0.0E+00	0.0E+00	6.0E-09
2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	2.7E-09	0.0E+00	0.0E+00	2.7E-09
2.4E-08	7.1E-08	5.6E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	2.9E-09	0.0E+00	0.0E+00	2.9E-09
2.6E-08	7.8E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	3.2E-09	0.0E+00	0.0E+00	3.2E-09
2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	3.5E-09	0.0E+00	0.0E+00	3.5E-09
3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	0.0E+00	0.0E+00	3.9E-09	0.0E+00	0.0E+00	3.9E-09
3.5E-08	1.0E-07	8.3E-08	7.2E-08	3.2E-08	0.0E+00	0.0E+00	4.3E-09	0.0E+00	0.0E+00	4.3E-09
3.9E-08	1.2E-07	9.3E-08	8.1E-08	3.6E-08	0.0E+00	0.0E+00	4.8E-09	0.0E+00	0.0E+00	4.8E-09
4.5E-08	1.3E-07	1.1E-07	9.2E-08	4.1E-08	0.0E+00	0.0E+00	5.5E-09	0.0E+00	0.0E+00	5.5E-09
5.1E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	6.4E-09	0.0E+00	0.0E+00	6.4E-09
2.3E-08	6.9E-08	5.5E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	2.8E-09	0.0E+00	0.0E+00	2.8E-09
2.4E-08	7.3E-08	5.7E-08	5.0E-08	2.2E-08	0.0E+00	0.0E+00	3.0E-09	0.0E+00	0.0E+00	3.0E-09
2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
2.6E-08	7.9E-08	6.3E-08	5.4E-08	2.4E-08	0.0E+00	0.0E+00	3.2E-09	0.0E+00	0.0E+00	3.2E-09
2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	3.4E-09	0.0E+00	0.0E+00	3.4E-09
2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	3.5E-09	0.0E+00	0.0E+00	3.5E-09
2.5E-08	7.4E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	3.1E-09	0.0E+00	0.0E+00	3.1E-09
2.6E-08	7.9E-08	6.2E-08	5.4E-08	2.4E-08	0.0E+00	0.0E+00	3.2E-09	0.0E+00	0.0E+00	3.2E-09
2.7E-08	8.3E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	3.4E-09	0.0E+00	0.0E+00	3.4E-09
2.9E-08	8.7E-08	6.8E-08	5.9E-08	2.7E-08	0.0E+00	0.0E+00	3.5E-09	0.0E+00	0.0E+00	3.5E-09
3.0E-08	9.0E-08	7.1E-08	6.2E-08	2.8E-08	0.0E+00	0.0E+00	3.7E-09	0.0E+00	0.0E+00	3.7E-09
3.1E-08	9.4E-08	7.4E-08	6.4E-08	2.9E-08	0.0E+00	0.0E+00	3.8E-09	0.0E+00	0.0E+00	3.8E-09
2.7E-08	8.0E-08	6.3E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	3.3E-09	0.0E+00	0.0E+00	3.3E-09
2.8E-08	8.5E-08	6.7E-08	5.8E-08	2.6E-08	0.0E+00	0.0E+00	3.5E-09	0.0E+00	0.0E+00	3.5E-09
3.0E-08	9.0E-08	7.1E-08	6.2E-08	2.8E-08	0.0E+00	0.0E+00	3.7E-09	0.0E+00	0.0E+00	3.7E-09
3.2E-08	9.5E-08	7.5E-08	6.5E-08	2.9E-08	0.0E+00	0.0E+00	3.9E-09	0.0E+00	0.0E+00	3.9E-09
3.3E-08	1.0E-07	7.9E-08	6.8E-08	3.1E-08	0.0E+00	0.0E+00	4.1E-09	0.0E+00	0.0E+00	4.1E-09
3.5E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	4.3E-09	0.0E+00	0.0E+00	4.3E-09
2.9E-08	8.7E-08	6.9E-08	5.9E-08	2.7E-08	0.0E+00	0.0E+00	3.6E-09	0.0E+00	0.0E+00	3.6E-09
3.1E-08	9.3E-08	7.3E-08	6.4E-08	2.9E-08	0.0E+00	0.0E+00	3.8E-09	0.0E+00	0.0E+00	3.8E-09
3.3E-08	9.9E-08	7.8E-08	6.8E-08	3.0E-08	0.0E+00	0.0E+00	4.1E-09	0.0E+00	0.0E+00	4.1E-09
3.5E-08	1.1E-07	8.3E-08	7.2E-08	3.2E-08	0.0E+00	0.0E+00	4.3E-09	0.0E+00	0.0E+00	4.3E-09
3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	4.6E-09	0.0E+00	0.0E+00	4.6E-09
3.9E-08	1.2E-07	9.3E-08	8.0E-08	3.6E-08	0.0E+00	0.0E+00	4.8E-09	0.0E+00	0.0E+00	4.8E-09
6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	7.6E-09	0.0E+00	0.0E+00	7.6E-09
5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	0.0E+00	0.0E+00	7.0E-09	0.0E+00	0.0E+00	7.0E-09
5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	6.5E-09	0.0E+00	0.0E+00	6.5E-09
5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	0.0E+00	0.0E+00	6.2E-09	0.0E+00	0.0E+00	6.2E-09
4.8E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	6.0E-09	0.0E+00	0.0E+00	6.0E-09
4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.3E-08	0.0E+00	0.0E+00	5.8E-09	0.0E+00	0.0E+00	5.8E-09
4.6E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	0.0E+00	0.0E+00	5.7E-09	0.0E+00	0.0E+00	5.7E-09
4.4E-08	1.3E-07	1.1E-07	9.2E-08	4.1E-08	0.0E+00	0.0E+00	5.5E-09	0.0E+00	0.0E+00	5.5E-09
4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.0E-08	0.0E+00	0.0E+00	5.4E-09	0.0E+00	0.0E+00	5.4E-09
4.8E-08	1.5E-07	1.1E-07	9.9E-08	4.5E-08	0.0E+00	0.0E+00	5.9E-09	0.0E+00	0.0E+00	5.9E-09
4.5E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	0.0E+00	0.0E+00	5.6E-09	0.0E+00	0.0E+00	5.6E-09
4.4E-08	1.3E-07	1.0E-07	9.0E-08	4.0E-08	0.0E+00	0.0E+00	5.4E-09	0.0E+00	0.0E+00	5.4E-09
4.2E-08	1.3E-07	9.9E-08	8.6E-08	3.9E-08	0.0E+00	0.0E+00	5.2E-09	0.0E+00	0.0E+00	5.2E-09
4.1E-08	1.2E-07	9.7E-08	8.4E-08	3.8E-08	0.0E+00	0.0E+00	5.0E-09	0.0E+00	0.0E+00	5.0E-09
4.0E-08	1.2E-07	9.4E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	4.9E-09	0.0E+00	0.0E+00	4.9E-09
3.9E-08	1.2E-07	9.3E-08	8.0E-08	3.6E-08	0.0E+00	0.0E+00	4.8E-09	0.0E+00	0.0E+00	4.8E-09
3.8E-08	1.1E-07	9.0E-08	7.8E-08	3.5E-08	0.0E+00	0.0E+00	4.7E-09	0.0E+00	0.0E+00	4.7E-09

PHASE 2 CONSTRUCTION

Mitigated	
Onsite	Offsite
1.23E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Offsite	Concentration (AVERAGE CONC) [ug/m^3] Onsite	Offsite	Unmitigated Total	Residential Dose 3rd Tri	0<2	2<9	9<16	16<30	Risk by Age Group 3rd Tri	0<2	2<9	9<16	16<30	Total Risk
428	UCART7	440851.1	3762943.83	440851.14, 3762943.83	0.07456	0.17557	9.15E-05	1.50E-05	1.06E-04	3.7E-08	1.1E-07	8.8E-08	7.6E-08	3.4E-08	0.0E+00	0.0E+00	4.6E-09	0.0E+00	0.0E+00	4.6E-09
429	UCART8	441116.7	3763135.31	441116.67, 3763135.31	0.04362	0.08195	5.35E-05	6.99E-06	6.05E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
430	UCART8	441166.7	3763135.31	441166.67, 3763135.31	0.04347	0.078	5.33E-05	6.66E-06	6.00E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	2.6E-09	0.0E+00	0.0E+00	2.6E-09
431	UCART8	441116.7	3763185.31	441116.67, 3763185.31	0.03927	0.07457	4.82E-05	6.36E-06	5.45E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
432	UCART8	441166.7	3763185.31	441166.67, 3763185.31	0.03925	0.07151	4.81E-05	6.10E-06	5.42E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	2.3E-09	0.0E+00	0.0E+00	2.3E-09
433	UCART8	441116.7	3763235.31	441116.67, 3763235.31	0.03561	0.06769	4.37E-05	5.78E-06	4.95E-05	1.7E-08	5.2E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
434	UCART8	441166.7	3763235.31	441166.67, 3763235.31	0.03563	0.06531	4.37E-05	5.57E-06	4.93E-05	1.7E-08	5.2E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	2.1E-09	0.0E+00	0.0E+00	2.1E-09
435	UCART8	441116.7	3763285.31	441116.67, 3763285.31	0.03229	0.06091	3.96E-05	5.20E-06	4.48E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
436	UCART8	441166.7	3763285.31	441166.67, 3763285.31	0.03245	0.05934	3.98E-05	5.06E-06	4.49E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.9E-09	0.0E+00	0.0E+00	1.9E-09
437	UCART8	441116.7	3763335.31	441116.67, 3763335.31	0.02953	0.05488	3.62E-05	4.68E-06	4.09E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
438	UCART8	441166.7	3763335.31	441166.67, 3763335.31	0.02963	0.0537	3.63E-05	4.58E-06	4.09E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	1.8E-09	0.0E+00	0.0E+00	1.8E-09
439	UCART8	441116.7	3763385.31	441116.67, 3763385.31	0.02719	0.04952	3.34E-05	4.23E-06	3.76E-05	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
440	UCART8	441166.7	3763385.31	441166.67, 3763385.31	0.02719	0.04855	3.34E-05	4.14E-06	3.75E-05	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	1.6E-09	0.0E+00	0.0E+00	1.6E-09
441	UCART8	441116.7	3763435.31	441116.67, 3763435.31	0.02514	0.0447	3.08E-05	3.81E-06	3.47E-05	1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
442	UCART8	441166.7	3763435.31	441166.67, 3763435.31	0.02516	0.04407	3.09E-05	3.76E-06	3.46E-05	1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	1.5E-09	0.0E+00	0.0E+00	1.5E-09
443	UCART9	440433.4	3762815.13	440433.43, 3762815.13	0.13355	1.21998	1.64E-04	1.04E-04	2.68E-04	9.3E-08	2.8E-07	2.2E-07	1.9E-07	8.6E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
444	UCART9	440483.4	3762815.13	440483.43, 3762815.13	0.1319	0.83936	1.62E-04	7.16E-05	2.33E-04	8.1E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
445	UCART9	440533.4	3762815.13	440533.43, 3762815.13	0.13081	0.63367	1.60E-04	5.41E-05	2.15E-04	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	9.2E-09	0.0E+00	0.0E+00	9.2E-09
446	UCART9	440583.4	3762815.13	440583.43, 3762815.13	0.12902	0.50284	1.58E-04	4.29E-05	2.01E-04	7.0E-08	2.1E-07	1.7E-07	1.4E-07	6.5E-08	0.0E+00	0.0E+00	8.6E-09	0.0E+00	0.0E+00	8.6E-09
447	UCART9	440633.4	3762815.13	440633.43, 3762815.13	0.12764	0.4129	1.57E-04	3.52E-05	1.92E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.2E-08	0.0E+00	0.0E+00	8.2E-09	0.0E+00	0.0E+00	8.2E-09
448	UCART9	440683.4	3762815.13	440683.43, 3762815.13	0.12573	0.34695	1.54E-04	2.96E-05	1.84E-04	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	7.9E-09	0.0E+00	0.0E+00	7.9E-09
449	UCART9	440733.4	3762815.13	440733.43, 3762815.13	0.12295	0.29642	1.51E-04	2.53E-05	1.76E-04	6.1E-08	1.8E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	7.5E-09	0.0E+00	0.0E+00	7.5E-09
450	UCART9	440783.4	3762815.13	440783.43, 3762815.13	0.12015	0.25711	1.47E-04	2.19E-05	1.69E-04	5.9E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	7.2E-09	0.0E+00	0.0E+00	7.2E-09
451	UCART9	440833.4	3762815.13	440833.43, 3762815.13	0.11621	0.22507	1.43E-04	1.92E-05	1.62E-04	5.6E-08	1.7E-07	1.3E-07	1.2E-07	5.2E-08	0.0E+00	0.0E+00	6.9E-09	0.0E+00	0.0E+00	6.9E-09
452	UCART9	440883.4	3762815.13	440883.43, 3762815.13	0.11224	0.19911	1.38E-04	1.70E-05	1.55E-04	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	0.0E+00	0.0E+00	6.6E-09	0.0E+00	0.0E+00	6.6E-09
453	UCART9	440933.4	3762815.13	440933.43, 3762815.13	0.10854	0.1779	1.33E-04	1.52E-05	1.48E-04	5.1E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	6.4E-09	0.0E+00	0.0E+00	6.4E-09
454	UCART9	440983.4	3762815.13	440983.43, 3762815.13	0.10433	0.15989	1.28E-04	1.36E-05	1.42E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	6.1E-09	0.0E+00	0.0E+00	6.1E-09
455	UCART9	440433.4	3762865.13	440433.43, 3762865.13	0.10684	0.98413	1.31E-04	8.40E-05	2.15E-04	7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	9.2E-09	0.0E+00	0.0E+00	9.2E-09
456	UCART9	440483.4	3762865.13	440483.43, 3762865.13	0.10569	0.70349	1.30E-04	6.00E-05	1.90E-04	6.6E-08	2.0E-07	1.6E-07	1.4E-07	6.1E-08	0.0E+00	0.0E+00	8.1E-09	0.0E+00	0.0E+00	8.1E-09
457	UCART9	440533.4	3762865.13	440533.43, 3762865.13	0.10504	0.54623	1.29E-04	4.66E-05	1.75E-04	6.1E-08	1.8E-07	1.4E-07	1.3E-07	5.6E-08	0.0E+00	0.0E+00	7.5E-09	0.0E+00	0.0E+00	7.5E-09
458	UCART9	440583.4	3762865.13	440583.43, 3762865.13	0.10405	0.44314	1.28E-04	3.78E-05	1.65E-04	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	7.1E-09	0.0E+00	0.0E+00	7.1E-09
459	UCART9	440633.4	3762865.13	440633.43, 3762865.13	0.10277	0.36975	1.26E-04	3.16E-05	1.58E-04	5.5E-08	1.6E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	6.7E-09	0.0E+00	0.0E+00	6.7E-09
460	UCART9	440683.4	3762865.13	440683.43, 3762865.13	0.10234	0.31509	1.26E-04	2.69E-05	1.52E-04	5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	6.5E-09	0.0E+00	0.0E+00	6.5E-09
461	UCART9	440733.4	3762865.13	440733.43, 3762865.13	0.10094	0.2724	1.24E-04	2.32E-05	1.47E-04	5.1E-08	1.5E-07	1.2E-07	1.1E-07	4.7E-08	0.0E+00	0.0E+00	6.3E-09	0.0E+00	0.0E+00	6.3E-09
462	UCART9	440783.4	3762865.13	440783.43, 3762865.13	0.09994	0.23856	1.23E-04	2.04E-05	1.43E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	6.1E-09	0.0E+00	0.0E+00	6.1E-09
463	UCART9	440833.4	3762865.13	440833.43, 3762865.13	0.09848	0.21117	1.21E-04	1.80E-05	1.39E-04	4.8E-08	1.5E-07	1.1E-07	9.9E-08	4.5E-08	0.0E+00	0.0E+00	5.9E-09	0.0E+00	0.0E+00	5.9E-09
464	UCART9	440883.4	3762865.13	440883.43, 3762865.13	0.09643	0.18842	1.18E-04	1.61E-05	1.34E-04	4.7E-08	1.4E-07	1.1E-07	9.6E-08	4.3E-08	0.0E+00	0.0E+00	5.8E-09	0.0E+00	0.0E+00	5.8E-09
465	UCART9	440933.4	3762865.13	440933.43, 3762865.13	0.09414	0.16931	1.15E-04	1.44E-05	1.30E-04	4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	0.0E+00	0.0E+00	5.6E-09	0.0E+00	0.0E+00	5.6E-09
466	UCART9	440983.4	3762865.13	440983.43, 3762865.13	0.09123	0.1529	1.12E-04	1.30E-05	1.25E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	5.3E-09	0.0E+00	0.0E+00	5.3E-09
467	UCART10	441118.3	3762686.02	441118.27, 3762686.02	0.11995	0.1272	1.47E-04	1.09E-05	1.58E-04	5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	6.8E-09	0.0E+00	0.0E+00	6.8E-09
468	UCART10	441168.3	3762686.02	441168.27, 3762686.02	0.11185	0.11599	1.37E-04	9.90E-06	1.47E-04	5.1E-08	1.5E-07	1.2E-07	1.1E-07	4.7E-08	0.0E+00	0.0E+00	6.3E-09	0.0E+00	0.0E+00	6.3E-09
469	UCART10	441118.3	3762736.02	441118.27, 3762736.02	0.10882	0.1267	1.33E-04	1.08E-05	1.44E-04	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.6E-08	0.0E+00	0.0E+00	6.2E-09	0.0E+00	0.0E+00	6.2E-09
470	UCART10	441168.3	3762736.02	441168.27, 3762736.02	0.10265	0.1158	1.26E-04	9.88E-06	1.36E-04	4.7E-08	1.4E-07	1.1E-07	9.7E-08	4.4E-08	0.0E+00	0.0E+00	5.8E-09	0.0E+00	0.0E+00	5.8E-09
471	UCART10	441118.3	3762786.02	441118.27, 3762786.02	0.09841	0.12495	1.21E-04	1.07E-05	1.31E-04	4.5E-08	1.4E-07	1.1E-07	9.4E-08	4.2E-08	0.0E+00	0.0E+00	5.6E-09	0.0E+00	0.0E+00	5.6E-09
472	UCART10	441168.3	3762786.02	441168.27, 3762786.02	0.09343	0.11433	1.15E-04	9.76E-06	1.24E-04	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	5.3E-09	0.0E+00	0.0E+00	5.3E-09
473	UCART10	441118.3	3762836.02	441118.27, 3762836.02	0.08845	0.12174	1.08E-04	1.04E-05	1.19E-04	4.1E-08	1.2E-07	9.8E-08	8.5E-08	3.8E-08	0.0E+00	0.0E+00	5.1E-09	0.0E+00	0.0E+00	5.1E-09
474	UCART10	441168.3	3762836.02	441168.27, 3762836.02	0.08463	0.11169	1.04E-04	9.53E-06	1.13E-04	3.9E-08	1.2E-07	9.4E-08	8.1E-08	3.6E-08	0.0E+00	0.0E+00	4.9E-09	0.0E+00	0.0E+00	4.9E-09
475	UCART11	440411.7	3762093.41	440411.67, 3762093.41	2.15718	0.25152	2.65E-03	2.15E-05	2.67E-03	9.2E-07	2.8E-06	2.2E-06	1.9E-06	8.6E-07	0.0E+00	0.0E+00	1.1E-07	0.0E+00	0.0E+00	1.1E-07
476	UCART11	440461.7	3762093.41	440461.67, 3762093.41	1.30698	0.22102	1.60E-03	1.89E-05	1.62E-03	5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	0.0E+00	0.0E+00	6.9E-08	0.0E+00	0.0E+00	6.9E-08
477	UCART11	440511.7	3762093.41	440511.67, 3762093.41	0.91347	0.19531	1.12E-03	1.67E-05	1.14E-03	3.9E-07	1.2E-06	9.4E-07	8.1E-07	3.7E-07	0.0E+00	0.0E+00	4.9E-08	0.0E+00	0.0E+00	4.9E-08
478	UCART11	440561.7	3762093.41	440561.67, 3762093.41	0.68537	0.17371	8.41E-04	1.48E-05	8.56E-04	3.0E-07	8.9E-07	7.1E-07	6.1E-07	2.7E-07	0.0E+00	0.0E+00	3.7E-08	0.0E+00	0.0E+00	3.7E-08
479	UCART11	440611.7	3762093.41	440611.67, 3762093.41	0.53732	0.15551	6.59E-04	1.33E-05	6.72E-04	2.3E-07	7.0E-07	5.6E-07	4.8E-07	2.2E-07	0.0E+00	0.0E+00	2.9E-08	0.0E+00	0.0E+00	2.9E-08
480	UCART11	440411.7	3762143.41	440411.67, 3762143.41	3.11472	0.32792	3.82E-03	2.80E-05	3.85E-03	1.3E-06	4.0E-06	3.2E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	1.6E-07	0.0E+00	0.0E+00	1.6E-07
481	UCART11	440461.7	3762143.41	440461.67, 3762143.41	1.7682	0.27895	2.17E-03	2.38E-05	2.19E-03	7.6E-07	2.3E-06	1.8E-06	1.6E-06	7.0E-07	0.0E+00	0.0E+00	9.4E-08	0.0E+00	0.0E+00	9.4E-08
482	UCART11	440511.7	3762143.41	440511.67, 3762143.41	1.17325	0.24007	1.44E-03	2.05E-05	1.46E-03	5.1E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	0.0E+00	0.0E+00	6.2E-08	0.0E+00	0.0E+00	6.2E-08
483	UCART11	440561.7	3762143.41	440561.67, 3762143.41	0.84859	0.20899	1.04E-03	1.78E-05	1.06E-03	3.7E-07	1.1E-06	8.7E-07	7.6E-07	3.4E-07	0.0E+00	0.0E+00	4.5E-08	0.0E+00	0.0E+00	4.5E-08
484	UCART11	440611.7	3762143.41	440611.67, 3762143.41	0.64702	0.18378	7.94E-04	1.57E-05	8.09E-04	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	3.5E-08	0.0E+00	0.0E+00	3.5E-08
485	UCART12	440406.6	3762008.86	440406.61, 3762008.86	0.82617	0.17276	1.01E-03	1.47E-05	1.03E-03	3.6E-07	1.1E-06	8.5E-07	7.3E-07	3.3E-07	0.0E+00	0.0E+00	4.4E-08	0.0E+00	0.0E+00	4.4E-08
486	UCART12	440456.6	3762008.86	440456.61, 3762008.86	0.66138	0.15766	8.11E-04	1.35E-05	8.25E-04	2.9E-07	8.6E-07	6.8E-07	5.9E-07	2.6E-07	0.0E+00	0.0E+00	3.5E-08	0.0E+00	0.0E+00	3.5E-08
487	UCART12	440506.6	3762008.86	440506.61, 3762008.86	0.536	0.14393	6.57E-04	1.23E-05	6.70E-04	2.3E-07	7.0E-07	5.5E-07	4.8E-07	2.2E-07	0.0E+00	0.0E+00	2.9E-08	0.0E+00	0.0E+00	2.9E-08
488	UCART12	440556.6	3762008.86	440556.61, 3762008.86	0.44151	0.1316	5.42E-04	1.12E-05	5.53E-04	1.9E-07	5.8E-07	4.6E-07	3.9E-07	1.8E-07	0.0E+00	0.0E+00	2.4E-08	0.0E+00	0.0E+00	2.4E-08

PHASE 2 CONSTRUCTION

Mitigated	
Onsite	Offsite
1.23E-03	8.53E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3 Onsite	Concentration (AVERAGE CONC) [ug/m^3 Offsite	Unmitigated Onsite	Unmitigated Offsite	Unmitigated Total	Residential Dose 3rd Tri	Residential Dose 0<2	Residential Dose 2<9	Residential Dose 9<16	Residential Dose 16<30	Risk by Age Group 3rd Tri	Risk by Age Group 0<2	Risk by Age Group 2<9	Risk by Age Group 9<16	Risk by Age Group 16<30	Total Risk
489	UCART12	440606.6	3762008.86	440606.61, 3762008.86	0.36933	0.12063	4.53E-04	1.03E-05	4.63E-04	1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	2.0E-08	0.0E+00	0.0E+00	2.0E-08
490	UCART12	440656.6	3762008.86	440656.61, 3762008.86	0.3133	0.11092	3.84E-04	9.47E-06	3.94E-04	1.4E-07	4.1E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
491	UCART12	440706.6	3762008.86	440706.61, 3762008.86	0.26913	0.10232	3.30E-04	8.73E-06	3.39E-04	1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
492	UCART12	440756.6	3762008.86	440756.61, 3762008.86	0.23379	0.0947	2.87E-04	8.08E-06	2.95E-04	1.0E-07	3.1E-07	2.4E-07	2.1E-07	9.5E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
493	UCART12	440806.6	3762008.86	440806.61, 3762008.86	0.20523	0.08791	2.52E-04	7.50E-06	2.59E-04	9.0E-08	2.7E-07	2.1E-07	1.9E-07	8.3E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
494	UCART12	440856.6	3762008.86	440856.61, 3762008.86	0.18171	0.08188	2.23E-04	6.99E-06	2.30E-04	8.0E-08	2.4E-07	1.9E-07	1.6E-07	7.4E-08	0.0E+00	0.0E+00	9.8E-09	0.0E+00	0.0E+00	9.8E-09
495	UCART12	440906.6	3762008.86	440906.61, 3762008.86	0.16214	0.07651	1.99E-04	6.53E-06	2.05E-04	7.1E-08	2.1E-07	1.7E-07	1.5E-07	6.6E-08	0.0E+00	0.0E+00	8.8E-09	0.0E+00	0.0E+00	8.8E-09
496	UCART12	440956.6	3762008.86	440956.61, 3762008.86	0.14579	0.07169	1.79E-04	6.12E-06	1.85E-04	6.4E-08	1.9E-07	1.5E-07	1.3E-07	5.9E-08	0.0E+00	0.0E+00	7.9E-09	0.0E+00	0.0E+00	7.9E-09
497	UCART12	441006.6	3762008.86	441006.61, 3762008.86	0.13193	0.06735	1.62E-04	5.75E-06	1.68E-04	5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	7.2E-09	0.0E+00	0.0E+00	7.2E-09
498	UCART12	441056.6	3762008.86	441056.61, 3762008.86	0.12011	0.06344	1.47E-04	5.41E-06	1.53E-04	5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	6.5E-09	0.0E+00	0.0E+00	6.5E-09
499	UCART12	441106.6	3762008.86	441106.61, 3762008.86	0.1099	0.05992	1.35E-04	5.11E-06	1.40E-04	4.8E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	6.0E-09	0.0E+00	0.0E+00	6.0E-09
500	UCART12	441156.6	3762008.86	441156.61, 3762008.86	0.10104	0.05673	1.24E-04	4.84E-06	1.29E-04	4.5E-08	1.3E-07	1.1E-07	9.2E-08	4.1E-08	0.0E+00	0.0E+00	5.5E-09	0.0E+00	0.0E+00	5.5E-09
501	UCART12	440406.6	3762058.86	440406.61, 3762058.86	1.4396	0.21523	1.77E-03	1.84E-05	1.78E-03	6.2E-07	1.9E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	7.6E-08	0.0E+00	0.0E+00	7.6E-08
502	UCART12	440456.6	3762058.86	440456.61, 3762058.86	1.00958	0.19248	1.24E-03	1.64E-05	1.25E-03	4.3E-07	1.3E-06	1.0E-06	9.0E-07	4.0E-07	0.0E+00	0.0E+00	5.4E-08	0.0E+00	0.0E+00	5.4E-08
503	UCART12	440506.6	3762058.86	440506.61, 3762058.86	0.75238	0.17262	9.23E-04	1.47E-05	9.38E-04	3.2E-07	9.8E-07	7.7E-07	6.7E-07	3.0E-07	0.0E+00	0.0E+00	4.0E-08	0.0E+00	0.0E+00	4.0E-08
504	UCART12	440556.6	3762058.86	440556.61, 3762058.86	0.58562	0.15542	7.18E-04	1.33E-05	7.32E-04	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.4E-07	0.0E+00	0.0E+00	3.1E-08	0.0E+00	0.0E+00	3.1E-08
505	UCART12	440606.6	3762058.86	440606.61, 3762058.86	0.47043	0.14057	5.77E-04	1.20E-05	5.89E-04	2.0E-07	6.2E-07	4.9E-07	4.2E-07	1.9E-07	0.0E+00	0.0E+00	2.5E-08	0.0E+00	0.0E+00	2.5E-08
506	UCART12	440656.6	3762058.86	440656.61, 3762058.86	0.38697	0.12775	4.75E-04	1.09E-05	4.86E-04	1.7E-07	5.1E-07	4.0E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	2.1E-08	0.0E+00	0.0E+00	2.1E-08
507	UCART12	440706.6	3762058.86	440706.61, 3762058.86	0.32436	0.11664	3.98E-04	9.95E-06	4.08E-04	1.4E-07	4.3E-07	3.4E-07	2.9E-07	1.3E-07	0.0E+00	0.0E+00	1.7E-08	0.0E+00	0.0E+00	1.7E-08
508	UCART12	440756.6	3762058.86	440756.61, 3762058.86	0.27632	0.10697	3.39E-04	9.13E-06	3.48E-04	1.2E-07	3.6E-07	2.9E-07	2.5E-07	1.1E-07	0.0E+00	0.0E+00	1.5E-08	0.0E+00	0.0E+00	1.5E-08
509	UCART12	440806.6	3762058.86	440806.61, 3762058.86	0.23884	0.0985	2.93E-04	8.41E-06	3.01E-04	1.0E-07	3.1E-07	2.5E-07	2.2E-07	9.7E-08	0.0E+00	0.0E+00	1.3E-08	0.0E+00	0.0E+00	1.3E-08
510	UCART12	440856.6	3762058.86	440856.61, 3762058.86	0.20864	0.09108	2.56E-04	7.77E-06	2.64E-04	9.1E-08	2.8E-07	2.2E-07	1.9E-07	8.5E-08	0.0E+00	0.0E+00	1.1E-08	0.0E+00	0.0E+00	1.1E-08
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	0.18404	0.08454	2.26E-04	7.21E-06	2.33E-04	8.1E-08	2.4E-07	1.9E-07	1.7E-07	7.5E-08	0.0E+00	0.0E+00	1.0E-08	0.0E+00	0.0E+00	1.0E-08
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	0.16384	0.07875	2.01E-04	6.72E-06	2.08E-04	7.2E-08	2.2E-07	1.7E-07	1.5E-07	6.7E-08	0.0E+00	0.0E+00	8.9E-09	0.0E+00	0.0E+00	8.9E-09
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	0.14699	0.0736	1.80E-04	6.28E-06	1.87E-04	6.5E-08	2.0E-07	1.5E-07	1.3E-07	6.0E-08	0.0E+00	0.0E+00	8.0E-09	0.0E+00	0.0E+00	8.0E-09
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	0.13276	0.06901	1.63E-04	5.89E-06	1.69E-04	5.8E-08	1.8E-07	1.4E-07	1.2E-07	5.4E-08	0.0E+00	0.0E+00	7.2E-09	0.0E+00	0.0E+00	7.2E-09
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	0.12063	0.06489	1.48E-04	5.54E-06	1.54E-04	5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	6.6E-09	0.0E+00	0.0E+00	6.6E-09
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	0.11021	0.06119	1.35E-04	5.22E-06	1.40E-04	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	6.0E-09	0.0E+00	0.0E+00	6.0E-09

PHASE 2 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	1.55E-03	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	1.43416	1.37102	0.00043	1.57375	5.31E-06	2.12E-03	2.67E-06	6.72E-05	2.20E-03
2	1	439943.4	3761716.33	439943.36, 3761716.33	1.98037	1.91611	0.00088	1.46133	7.33E-06	2.96E-03	5.46E-06	6.24E-05	3.04E-03
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	0.63646	0.66513	0.00015	0.64892	2.36E-06	1.03E-03	9.30E-07	2.77E-05	1.06E-03
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	0.65453	0.6878	0.00015	0.68951	2.42E-06	1.06E-03	9.30E-07	2.94E-05	1.10E-03
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	0.68962	0.72569	0.00015	0.73902	2.55E-06	1.12E-03	9.30E-07	3.15E-05	1.16E-03
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	0.71843	0.75271	0.00014	0.79222	2.66E-06	1.16E-03	8.68E-07	3.38E-05	1.20E-03
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	0.75538	0.79318	0.00014	0.85471	2.80E-06	1.23E-03	8.68E-07	3.65E-05	1.27E-03
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	0.8042	0.84109	0.00013	0.9286	2.98E-06	1.30E-03	8.06E-07	3.96E-05	1.34E-03
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	0.86003	0.9182	0.00013	1.01558	3.18E-06	1.42E-03	8.06E-07	4.33E-05	1.47E-03
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	0.90776	0.97144	0.00012	1.11418	3.36E-06	1.50E-03	7.44E-07	4.75E-05	1.55E-03
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	0.95579	1.01223	0.00011	1.22975	3.54E-06	1.57E-03	6.82E-07	5.25E-05	1.62E-03
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	0.98375	1.04377	0.00011	1.36462	3.64E-06	1.61E-03	6.82E-07	5.82E-05	1.68E-03
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	1.00964	1.06697	0.00011	1.52647	3.74E-06	1.65E-03	6.82E-07	6.51E-05	1.72E-03
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	1.0488	1.09358	0.00011	1.7255	3.88E-06	1.69E-03	6.82E-07	7.36E-05	1.77E-03
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	1.093	1.1417	0.00013	1.96863	4.04E-06	1.77E-03	8.06E-07	8.40E-05	1.85E-03
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	1.13378	1.18632	0.00015	2.25428	4.20E-06	1.84E-03	9.30E-07	9.62E-05	1.94E-03
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	1.17214	1.22836	0.00017	2.57304	4.34E-06	1.90E-03	1.05E-06	1.10E-04	2.02E-03
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	0.59681	0.61939	0.00013	0.62741	2.21E-06	9.58E-04	8.06E-07	2.68E-05	9.88E-04
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	0.61773	0.63819	0.00013	0.66632	2.29E-06	9.87E-04	8.06E-07	2.84E-05	1.02E-03
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	0.65099	0.68121	0.00012	0.71269	2.41E-06	1.05E-03	7.44E-07	3.04E-05	1.09E-03
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	0.67441	0.70223	0.00012	0.76185	2.50E-06	1.09E-03	7.44E-07	3.25E-05	1.12E-03
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	0.70818	0.73847	0.00011	0.81968	2.62E-06	1.14E-03	6.82E-07	3.50E-05	1.18E-03
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	0.75348	0.79256	0.00011	0.88762	2.79E-06	1.23E-03	6.82E-07	3.79E-05	1.27E-03
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	0.78201	0.8179	0.0001	0.96109	2.89E-06	1.27E-03	6.20E-07	4.10E-05	1.31E-03
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	0.81656	0.85622	9.00E-05	1.04683	3.02E-06	1.32E-03	5.58E-07	4.47E-05	1.37E-03
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	0.86811	0.90593	9.00E-05	1.15016	3.21E-06	1.40E-03	5.58E-07	4.91E-05	1.45E-03
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	0.90224	0.949	9.00E-05	1.26658	3.34E-06	1.47E-03	5.58E-07	5.40E-05	1.53E-03
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	0.92634	0.9624	9.00E-05	1.39827	3.43E-06	1.49E-03	5.58E-07	5.97E-05	1.55E-03
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	0.95759	0.9965	0.0001	1.55409	3.54E-06	1.54E-03	6.20E-07	6.63E-05	1.61E-03
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	0.99008	1.03187	0.00011	1.73013	3.66E-06	1.60E-03	6.82E-07	7.38E-05	1.67E-03
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	1.01876	1.06329	0.00013	1.92711	3.77E-06	1.64E-03	8.06E-07	8.22E-05	1.73E-03
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	1.04645	1.09361	0.00016	2.14215	3.87E-06	1.69E-03	9.92E-07	9.14E-05	1.79E-03
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	0.56033	0.58105	0.00011	0.60574	2.07E-06	8.99E-04	6.82E-07	2.58E-05	9.27E-04
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	0.58352	0.60626	0.0001	0.64304	2.16E-06	9.38E-04	6.20E-07	2.74E-05	9.68E-04
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	0.61409	0.63826	0.0001	0.68626	2.27E-06	9.87E-04	6.20E-07	2.93E-05	1.02E-03
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	0.63502	0.66211	9.00E-05	0.73078	2.35E-06	1.02E-03	5.58E-07	3.12E-05	1.06E-03
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	0.6662	0.69533	9.00E-05	0.78435	2.47E-06	1.08E-03	5.58E-07	3.35E-05	1.11E-03
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	0.70445	0.73519	8.00E-05	0.84573	2.61E-06	1.14E-03	4.96E-07	3.61E-05	1.18E-03
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	0.72974	0.7639	8.00E-05	0.91092	2.70E-06	1.18E-03	4.96E-07	3.89E-05	1.22E-03
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	0.76128	0.79849	7.00E-05	0.98666	2.82E-06	1.24E-03	4.34E-07	4.21E-05	1.28E-03
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	0.79544	0.83576	7.00E-05	1.07346	2.94E-06	1.29E-03	4.34E-07	4.58E-05	1.34E-03
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	0.83113	0.87469	8.00E-05	1.1726	3.08E-06	1.35E-03	4.96E-07	5.00E-05	1.41E-03
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	0.84793	0.87955	8.00E-05	1.27492	3.14E-06	1.36E-03	4.96E-07	5.44E-05	1.42E-03
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	0.86359	0.8972	9.00E-05	1.3878	3.20E-06	1.39E-03	5.58E-07	5.92E-05	1.45E-03
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	0.88556	0.92121	0.00011	1.51853	3.28E-06	1.42E-03	6.82E-07	6.48E-05	1.49E-03
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	0.91189	0.94962	0.00012	1.66317	3.37E-06	1.47E-03	7.44E-07	7.10E-05	1.54E-03
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	0.93731	0.97702	0.00015	1.81456	3.47E-06	1.51E-03	9.30E-07	7.74E-05	1.59E-03
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	0.52967	0.543	9.00E-05	0.58401	1.96E-06	8.40E-04	5.58E-07	2.49E-05	8.67E-04
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	0.5518	0.56621	9.00E-05	0.61899	2.04E-06	8.76E-04	5.58E-07	2.64E-05	9.05E-04
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	0.57855	0.59405	8.00E-05	0.65864	2.14E-06	9.19E-04	4.96E-07	2.81E-05	9.50E-04
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	0.60243	0.61916	8.00E-05	0.70126	2.23E-06	9.58E-04	4.96E-07	2.99E-05	9.90E-04
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	0.62929	0.64733	7.00E-05	0.74921	2.33E-06	1.00E-03	4.34E-07	3.20E-05	1.04E-03
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	0.65691	0.67637	7.00E-05	0.80253	2.43E-06	1.05E-03	4.34E-07	3.42E-05	1.08E-03
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	0.67881	0.6998	6.00E-05	0.86015	2.51E-06	1.08E-03	3.72E-07	3.67E-05	1.12E-03
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	0.70642	0.72902	6.00E-05	0.92567	2.61E-06	1.13E-03	3.72E-07	3.95E-05	1.17E-03
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	0.73581	0.76015	6.00E-05	1.00054	2.72E-06	1.18E-03	3.72E-07	4.27E-05	1.22E-03
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	0.76545	0.79162	7.00E-05	1.08336	2.83E-06	1.22E-03	4.34E-07	4.62E-05	1.27E-03
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	0.78241	0.81024	7.00E-05	1.16437	2.90E-06	1.25E-03	4.34E-07	4.97E-05	1.31E-03
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	0.79302	0.82236	9.00E-05	1.25176	2.93E-06	1.27E-03	5.58E-07	5.34E-05	1.33E-03
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	0.80838	0.83916	0.0001	1.34877	2.99E-06	1.30E-03	6.20E-07	5.76E-05	1.36E-03
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	0.82462	0.85675	0.00012	1.4518	3.05E-06	1.33E-03	7.44E-07	6.20E-05	1.39E-03
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	0.84374	0.87728	0.00013	1.55969	3.12E-06	1.36E-03	8.06E-07	6.66E-05	1.43E-03
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	0.49892	0.51144	7.00E-05	0.55834	1.85E-06	7.91E-04	4.34E-07	2.38E-05	8.17E-04
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	0.51266	0.52608	7.00E-05	0.58647	1.90E-06	8.14E-04	4.34E-07	2.50E-05	8.41E-04
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	0.53399	0.54838	6.00E-05	0.62176	1.98E-06	8.48E-04	3.72E-07	2.65E-05	8.77E-04
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	0.55923	0.57465	6.00E-05	0.66298	2.07E-06	8.89E-04	3.72E-07	2.83E-05	9.20E-04
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	0.5891	0.60563	6.00E-05	0.71088	2.18E-06	9.37E-04	3.72E-07	3.03E-05	9.70E-04
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	0.60589	0.62357	5.00E-05	0.75326	2.24E-06	9.65E-04	3.10E-07	3.21E-05	9.99E-04
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	0.62474	0.64365	5.00E-05	0.80154	2.31E-06	9.96E-04	3.10E-07	3.42E-05	1.03E-03
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	0.64441	0.6646	5.00E-05	0.85548	2.38E-06	1.03E-03	3.10E-07	3.65E-05	1.07E-03
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	0.67682	0.69849	6.00E-05	0.92368	2.50E-06	1.08E-03	3.72E-07	3.94E-05	1.12E-03
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	0.69759	0.72066	6.00E-05	0.99015	2.58E-06	1.11E-03	3.72E-07	4.23E-05	1.16E-03
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	0.71718	0.74164	7.00E-05	1.06181	2.65E-06	1.15E-03	4.34E-07	4.53E-05	1.20E-03
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	0.72677	0.75234	8.00E-05	1.12974	2.69E-06	1.16E-03	4.96E-07	4.82E-05	1.22E-03
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	0.73193	0.7583	9.00E-05	1.19611	2.71E-06	1.17E-03	5.58E-07	5.10E-05	1.23E-03
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	0.74704	0.77449	0.00011	1.27426	2.76E-06	1.20E-03	6.82E-07	5.44E-05	1.26E-03
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	0.76548	0.79412	0.00012	1.35734	2.83E-06	1.23E-03	7.44E-07	5.79E-05	1.29E-03
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	0.47053	0.48217	6.00E-05	0.53395	1.74E-06	7.46E-04	3.72E-07	2.28E-05	7.71E-04
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	0.48405	0.49645	6.00E-05	0.55979	1.79E-06	7.68E-04	3.72E-07	2.39E-05	7.94E-04
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	0.5078	0.52105	5.00E-05	0.59595	1.88E-06	8.06E-04	3.10E-07	2.54E-05	8.34E-04

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
7.6E-07	2.3E-06	1.8E-06	1.6E-06	7.1E-07	0.0E+00	0.0E+00	5.0E-07	5.2E-07	1.1E-07	1.1E-06
1.1E-06	3.2E-06	2.5E-06	2.2E-06	9.8E-07	0.0E+00	0.0E+00	7.0E-07	7.2E-07	1.5E-07	1.6E-06
3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	0.0E+00	0.0E+00	2.4E-07	2.5E-07	5.4E-08	5.5E-07
3.8E-07	1.1E-06	9.1E-07	7.8E-07	3.5E-07	0.0E+00	0.0E+00	2.5E-07	2.6E-07	5.6E-08	5.7E-07
4.0E-07	1.2E-06	9.6E-07	8.3E-07	3.7E-07	0.0E+00	0.0E+00	2.7E-07	2.7E-07	5.9E-08	6.0E-07
4.2E-07	1.3E-06	9.9E-07	8.6E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.8E-07	6.1E-08	6.2E-07
4.4E-07	1.3E-06	1.0E-06	9.1E-07	4.1E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.4E-08	6.5E-07
4.7E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.8E-08	6.9E-07
5.1E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.4E-08	7.6E-07
5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	7.9E-08	8.0E-07
5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.2E-08	8.4E-07
5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	0.0E+00	0.0E+00	3.9E-07	4.0E-07	8.5E-08	8.7E-07
6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	3.9E-07	4.1E-07	8.7E-08	8.9E-07
6.1E-07	1.8E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.0E-08	9.1E-07
6.4E-07	1.9E-06	1.5E-06	1.3E-06	6.0E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.4E-08	9.6E-07
6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.4E-07	4.6E-07	9.8E-08	1.0E-06
7.0E-07	2.1E-06	1.7E-06	1.4E-06	6.5E-07	0.0E+00	0.0E+00	4.6E-07	4.8E-07	1.0E-07	1.0E-06
3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	0.0E+00	0.0E+00	2.3E-07	2.3E-07	5.0E-08	5.1E-07
3.5E-07	1.1E-06	8.4E-07	7.3E-07	3.3E-07	0.0E+00	0.0E+00	2.3E-07	2.4E-07	5.2E-08	5.3E-07
3.8E-07	1.1E-06	9.0E-07	7.8E-07	3.5E-07	0.0E+00	0.0E+00	2.5E-07	2.6E-07	5.5E-08	5.6E-07
3.9E-07	1.2E-06	9.3E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	2.6E-07	2.6E-07	5.7E-08	5.8E-07
4.1E-07	1.2E-06	9.7E-07	8.4E-07	3.8E-07	0.0E+00	0.0E+00	2.7E-07	2.8E-07	6.0E-08	6.1E-07
4.4E-07	1.3E-06	1.0E-06	9.1E-07	4.1E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.4E-08	6.5E-07
4.5E-07	1.4E-06	1.1E-06	9.4E-07	4.2E-07	0.0E+00	0.0E+00	3.0E-07	3.1E-07	6.6E-08	6.8E-07
4.8E-07	1.4E-06	1.1E-06	9.8E-07	4.4E-07	0.0E+00	0.0E+00	3.2E-07	3.2E-07	7.0E-08	7.1E-07
5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	0.0E+00	0.0E+00	3.3E-07	3.4E-07	7.4E-08	7.5E-07
5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	0.0E+00	0.0E+00	3.5E-07	3.6E-07	7.7E-08	7.9E-07
5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	7.9E-08	8.0E-07
5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.2E-08	8.3E-07
5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.5E-08	8.6E-07
6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.6E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.8E-08	8.9E-07
6.2E-07	1.9E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.1E-08	9.2E-07
3.2E-07	9.7E-07	7.7E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	2.1E-07	2.2E-07	4.7E-08	4.8E-07
3.4E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	0.0E+00	0.0E+00	2.2E-07	2.3E-07	4.9E-08	5.0E-07
3.5E-07	1.1E-06	8.4E-07	7.3E-07	3.3E-07	0.0E+00	0.0E+00	2.3E-07	2.4E-07	5.2E-08	5.3E-07
3.7E-07	1.1E-06	8.7E-07	7.6E-07	3.4E-07	0.0E+00	0.0E+00	2.4E-07	2.5E-07	5.4E-08	5.5E-07
3.8E-07	1.2E-06	9.2E-07	7.9E-07	3.6E-07	0.0E+00	0.0E+00	2.6E-07	2.6E-07	5.6E-08	5.7E-07
4.1E-07	1.2E-06	9.7E-07	8.4E-07	3.8E-07	0.0E+00	0.0E+00	2.7E-07	2.8E-07	6.0E-08	6.1E-07
4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.2E-08	6.3E-07
4.4E-07	1.3E-06	1.1E-06	9.1E-07	4.1E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.5E-08	6.6E-07
4.6E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.8E-08	6.9E-07
4.7E-07	1.4E-06	1.1E-06	9.7E-07	4.4E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.9E-08	7.0E-07
4.8E-07	1.5E-06	1.1E-06	9.9E-07	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.0E-08	7.2E-07
4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	0.0E+00	0.0E+00	3.3E-07	3.4E-07	7.2E-08	7.4E-07
2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	1.9E-07	1.9E-07	4.1E-08	4.2E-07
2.9E-07	8.8E-07	6.9E-07	6.0E-07	2.7E-07	0.0E+00	0.0E+00	1.9E-07	2.0E-07	4.3E-08	4.3E-07
3.0E-07	9.2E-07	7.2E-07	6.3E-07	2.8E-07	0.0E+00	0.0E+00	2.0E-07	2.1E-07	4.4E-08	4.5E-07
3.2E-07	9.6E-07	7.6E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	2.1E-07	2.2E-07	4.7E-08	4.7E-07
3.4E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	0.0E+00	0.0E+00	2.2E-07	2.3E-07	4.9E-08	5.0E-07
3.5E-07	1.0E-06	8.3E-07	7.1E-07	3.2E-07	0.0E+00	0.0E+00	2.3E-07	2.4E-07	5.1E-08	5.2E-07
3.6E-07	1.1E-06	8.5E-07	7.4E-07	3.3E-07	0.0E+00	0.0E+00	2.4E-07	2.4E-07	5.2E-08	5.3E-07
3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	0.0E+00	0.0E+00	2.5E-07	2.5E-07	5.4E-08	5.5E-07
3.9E-07	1.2E-06	9.3E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	2.6E-07	2.6E-07	5.7E-08	5.8E-07
4.0E-07	1.2E-06	9.6E-07	8.3E-07	3.7E-07	0.0E+00	0.0E+00	2.7E-07	2.7E-07	5.9E-08	6.0E-07
4.1E-07	1.2E-06	9.9E-07	8.5E-07	3.8E-07	0.0E+00	0.0E+00	2.7E-07	2.8E-07	6.1E-08	6.2E-07
4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.2E-08	6.3E-07
4.2E-07	1.3E-06	1.0E-06	8.8E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.2E-08	6.3E-07
4.3E-07	1.3E-06	1.0E-06	9.0E-07	4.0E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.4E-08	6.5E-07
4.5E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	0.0E+00	0.0E+00	3.0E-07	3.0E-07	6.5E-08	6.7E-07
2.7E-07	8.1E-07	6.4E-07	5.5E-07	2.5E-07	0.0E+00	0.0E+00	1.8E-07	1.8E-07	3.9E-08	4.0E-07
2.7E-07	8.3E-07	6.6E-07	5.7E-07	2.6E-07	0.0E+00	0.0E+00	1.8E-07	1.9E-07	4.0E-08	4.1E-07
2.9E-07	8.7E-07	6.9E-07	6.0E-07	2.7E-07	0.0E+00	0.0E+00	1.9E-07	2.0E-07	4.2E-08	4.3E-07

PHASE 2 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	1.55E-03	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	0.52811	0.54225	5.00E-05	0.63167	1.95E-06	8.39E-04	3.10E-07	2.70E-05	8.68E-04	3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	0.0E+00	0.0E+00	2.0E-07	2.0E-07	4.4E-08	4.5E-07
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	0.55323	0.56832	5.00E-05	0.67315	2.05E-06	8.79E-04	3.10E-07	2.87E-05	9.10E-04	3.2E-07	9.5E-07	7.5E-07	6.5E-07	2.9E-07	0.0E+00	0.0E+00	2.1E-07	2.1E-07	4.6E-08	4.7E-07
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	0.56908	0.58515	5.00E-05	0.71208	2.11E-06	9.05E-04	3.10E-07	3.04E-05	9.38E-04	3.2E-07	9.8E-07	7.7E-07	6.7E-07	3.0E-07	0.0E+00	0.0E+00	2.2E-07	2.2E-07	4.8E-08	4.8E-07
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	0.58402	0.60109	5.00E-05	0.7534	2.16E-06	9.30E-04	3.10E-07	3.21E-05	9.64E-04	3.3E-07	1.0E-06	8.0E-07	6.9E-07	3.1E-07	0.0E+00	0.0E+00	2.2E-07	2.3E-07	4.9E-08	5.0E-07
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	0.60025	0.61837	5.00E-05	0.79868	2.22E-06	9.57E-04	3.10E-07	3.41E-05	9.93E-04	3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	0.0E+00	0.0E+00	2.3E-07	2.3E-07	5.0E-08	5.1E-07
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	0.62319	0.64247	5.00E-05	0.85392	2.31E-06	9.94E-04	3.10E-07	3.64E-05	1.03E-03	3.6E-07	1.1E-06	8.5E-07	7.4E-07	3.3E-07	0.0E+00	0.0E+00	2.4E-07	2.4E-07	5.2E-08	5.3E-07
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	0.64623	0.66672	6.00E-05	0.91338	2.39E-06	1.03E-03	3.72E-07	3.90E-05	1.07E-03	3.7E-07	1.1E-06	8.9E-07	7.7E-07	3.4E-07	0.0E+00	0.0E+00	2.5E-07	2.5E-07	5.4E-08	5.5E-07
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	0.6597	0.68121	7.00E-05	0.96808	2.44E-06	1.05E-03	4.34E-07	4.13E-05	1.10E-03	3.8E-07	1.1E-06	9.1E-07	7.8E-07	3.5E-07	0.0E+00	0.0E+00	2.5E-07	2.6E-07	5.6E-08	5.7E-07
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	0.66918	0.69153	8.00E-05	1.02388	2.48E-06	1.07E-03	4.96E-07	4.37E-05	1.12E-03	3.9E-07	1.2E-06	9.2E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	2.6E-07	2.6E-07	5.7E-08	5.8E-07
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	0.6705	0.69338	9.00E-05	1.07063	2.48E-06	1.07E-03	5.58E-07	4.57E-05	1.12E-03	3.9E-07	1.2E-06	9.3E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	2.6E-07	2.6E-07	5.7E-08	5.8E-07
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	0.68241	0.70614	0.0001	1.08486	2.53E-06	1.09E-03	6.20E-07	4.63E-05	1.14E-03	4.0E-07	1.2E-06	9.4E-07	8.2E-07	3.7E-07	0.0E+00	0.0E+00	2.6E-07	2.7E-07	5.8E-08	5.9E-07
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	0.69646	0.72108	0.00011	1.13572	2.58E-06	1.12E-03	6.82E-07	4.85E-05	1.17E-03	4.0E-07	1.2E-06	9.6E-07	8.3E-07	3.7E-07	0.0E+00	0.0E+00	2.7E-07	2.8E-07	5.9E-08	6.0E-07
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	0.44415	0.45492	5.00E-05	0.50964	1.64E-06	7.04E-04	3.10E-07	2.17E-05	7.27E-04	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	1.7E-07	1.7E-07	3.7E-08	3.8E-07
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	0.45811	0.46953	5.00E-05	0.53492	1.70E-06	7.26E-04	3.10E-07	2.28E-05	7.51E-04	2.6E-07	7.9E-07	6.2E-07	5.4E-07	2.4E-07	0.0E+00	0.0E+00	1.7E-07	1.8E-07	3.8E-08	3.9E-07
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	0.47976	0.49194	4.00E-05	0.56787	1.78E-06	7.61E-04	2.48E-07	2.42E-05	7.87E-04	2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	0.0E+00	0.0E+00	1.8E-07	1.9E-07	4.0E-08	4.1E-07
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	0.49268	0.50557	4.00E-05	0.59592	1.82E-06	7.82E-04	2.48E-07	2.54E-05	8.10E-04	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	1.9E-07	1.9E-07	4.1E-08	4.2E-07
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	0.51244	0.52615	4.00E-05	0.63174	1.90E-06	8.14E-04	2.48E-07	2.70E-05	8.43E-04	2.9E-07	8.8E-07	7.0E-07	6.0E-07	2.7E-07	0.0E+00	0.0E+00	1.9E-07	2.0E-07	4.3E-08	4.4E-07
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	0.52447	0.53893	4.00E-05	0.66398	1.94E-06	8.34E-04	2.48E-07	2.83E-05	8.64E-04	3.0E-07	9.0E-07	7.1E-07	6.2E-07	2.8E-07	0.0E+00	0.0E+00	2.0E-07	2.0E-07	4.4E-08	4.5E-07
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	0.53764	0.5529	4.00E-05	0.69967	1.99E-06	8.55E-04	2.48E-07	2.99E-05	8.87E-04	3.1E-07	9.3E-07	7.3E-07	6.3E-07	2.9E-07	0.0E+00	0.0E+00	2.0E-07	2.1E-07	4.5E-08	4.6E-07
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	0.55931	0.57555	4.00E-05	0.74544	2.07E-06	8.90E-04	2.48E-07	3.18E-05	9.24E-04	3.2E-07	9.7E-07	7.6E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	2.1E-07	2.2E-07	4.7E-08	4.8E-07
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	0.57805	0.59524	5.00E-05	0.79148	2.14E-06	9.21E-04	3.10E-07	3.38E-05	9.57E-04	3.3E-07	1.0E-06	7.9E-07	6.8E-07	3.1E-07	0.0E+00	0.0E+00	2.2E-07	2.3E-07	4.8E-08	4.9E-07
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	0.5978	0.61596	6.00E-05	0.84085	2.21E-06	9.53E-04	3.72E-07	3.59E-05	9.91E-04	3.4E-07	1.0E-06	8.2E-07	7.1E-07	3.2E-07	0.0E+00	0.0E+00	2.3E-07	2.3E-07	5.0E-08	5.1E-07
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	0.60611	0.62497	6.00E-05	0.88309	2.24E-06	9.67E-04	3.72E-07	3.77E-05	1.01E-03	3.5E-07	1.1E-06	8.3E-07	7.2E-07	3.2E-07	0.0E+00	0.0E+00	2.3E-07	2.4E-07	5.1E-08	5.2E-07
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	0.61797	0.63757	7.00E-05	0.92992	2.29E-06	9.86E-04	4.34E-07	3.97E-05	1.03E-03	3.6E-07	1.1E-06	8.5E-07	7.3E-07	3.3E-07	0.0E+00	0.0E+00	2.4E-07	2.4E-07	5.2E-08	5.3E-07
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	0.6206	0.64069	9.00E-05	0.95209	2.30E-06	9.91E-04	5.58E-07	4.06E-05	1.03E-03	3.6E-07	1.1E-06	8.5E-07	7.4E-07	3.3E-07	0.0E+00	0.0E+00	2.4E-07	2.4E-07	5.2E-08	5.3E-07
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	0.62833	0.64906	0.0001	0.95326	2.33E-06	1.00E-03	6.20E-07	4.07E-05	1.05E-03	3.6E-07	1.1E-06	8.6E-07	7.5E-07	3.4E-07	0.0E+00	0.0E+00	2.4E-07	2.5E-07	5.3E-08	5.4E-07
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	0.63835	0.65975	0.00011	0.96212	2.36E-06	1.02E-03	6.82E-07	4.11E-05	1.06E-03	3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	0.0E+00	0.0E+00	2.4E-07	2.5E-07	5.4E-08	5.5E-07
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	0.41984	0.42977	4.00E-05	0.48612	1.55E-06	6.65E-04	2.48E-07	2.07E-05	6.87E-04	2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	0.0E+00	0.0E+00	1.6E-07	1.6E-07	3.5E-08	3.5E-07
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	0.43268	0.44316	4.00E-05	0.50914	1.60E-06	6.86E-04	2.48E-07	2.17E-05	7.09E-04	2.5E-07	7.4E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	1.6E-07	1.7E-07	3.6E-08	3.7E-07
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	0.45231	0.46347	4.00E-05	0.5398	1.67E-06	7.17E-04	2.48E-07	2.30E-05	7.42E-04	2.6E-07	7.8E-07	6.1E-07	5.3E-07	2.4E-07	0.0E+00	0.0E+00	1.7E-07	1.7E-07	3.8E-08	3.8E-07
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	0.46676	0.47855	3.00E-05	0.56751	1.73E-06	7.40E-04	1.86E-07	2.42E-05	7.66E-04	2.7E-07	8.0E-07	6.3E-07	5.5E-07	2.5E-07	0.0E+00	0.0E+00	1.8E-07	1.8E-07	3.9E-08	4.0E-07
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	0.47982	0.49226	3.00E-05	0.59593	1.78E-06	7.61E-04	1.86E-07	2.54E-05	7.89E-04	2.7E-07	8.2E-07	6.5E-07	5.6E-07	2.5E-07	0.0E+00	0.0E+00	1.8E-07	1.9E-07	4.0E-08	4.1E-07
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	0.49369	0.50681	4.00E-05	0.62669	1.83E-06	7.84E-04	2.48E-07	2.67E-05	8.13E-04	2.8E-07	8.5E-07	6.7E-07	5.8E-07	2.6E-07	0.0E+00	0.0E+00	1.9E-07	1.9E-07	4.1E-08	4.2E-07
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	0.50496	0.51872	4.00E-05	0.65742	1.87E-06	8.02E-04	2.48E-07	2.81E-05	8.33E-04	2.9E-07	8.7E-07	6.9E-07	5.9E-07	2.7E-07	0.0E+00	0.0E+00	1.9E-07	2.0E-07	4.2E-08	4.3E-07
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	0.52308	0.53766	4.00E-05	0.69622	1.94E-06	8.32E-04	2.48E-07	2.97E-05	8.64E-04	3.0E-07	9.0E-07	7.1E-07	6.2E-07	2.8E-07	0.0E+00	0.0E+00	2.0E-07	2.0E-07	4.4E-08	4.5E-07
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	0.53682	0.55212	5.00E-05	0.73349	1.99E-06	8.54E-04	3.10E-07	3.13E-05	8.88E-04	3.1E-07	9.3E-07	7.3E-07	6.3E-07	2.9E-07	0.0E+00	0.0E+00	2.0E-07	2.1E-07	4.5E-08	4.6E-07
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	0.5523	0.56835	5.00E-05	0.77352	2.04E-06	8.79E-04	3.10E-07	3.30E-05	9.15E-04	3.2E-07	9.6E-07	7.6E-07	6.5E-07	2.9E-07	0.0E+00	0.0E+00	2.1E-07	2.2E-07	4.6E-08	4.7E-07
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	0.56096	0.57759	6.00E-05	0.80958	2.08E-06	8.93E-04	3.72E-07	3.45E-05	9.30E-04	3.2E-07	9.7E-07	7.7E-07	6.6E-07	3.0E-07	0.0E+00	0.0E+00	2.1E-07	2.2E-07	4.7E-08	4.8E-07
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	0.56842	0.5856	7.00E-05	0.84106	2.10E-06	9.06E-04	4.34E-07	3.59E-05	9.44E-04	3.3E-07	9.9E-07	7.8E-07	6.7E-07	3.0E-07	0.0E+00	0.0E+00	2.2E-07	2.2E-07	4.8E-08	4.9E-07
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	0.57246	0.59011	8.00E-05	0.82094	2.12E-06	9.13E-04	4.96E-07	3.50E-05	9.50E-04	3.3E-07	9.9E-07	7.8E-07	6.8E-07	3.1E-07	0.0E+00	0.0E+00	2.2E-07	2.2E-07	4.8E-08	4.9E-07
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	0.57928	0.59747	9.00E-05	0.83003	2.14E-06	9.24E-04	5.58E-07	3.54E-05	9.62E-04	3.3E-07	1.0E-06	7.9E-07	6.9E-07	3.1E-07	0.0E+00	0.0E+00	2.2E-07	2.3E-07	4.9E-08	5.0E-07
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	0.58881	0.60755	0.0001	0.85757	2.18E-06	9.40E-04	6.20E-07	3.66E-05	9.79E-04	3.4E-07	1.0E-06	8.1E-07	7.0E-07	3.1E-07	0.0E+00	0.0E+00	2.2E-07	2.3E-07	5.0E-08	5.1E-07
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	0.82338	0.84918	0.00026	0.75218	3.05E-06	1.31E-03	1.61E-06	3.21E-05	1.35E-03	4.7E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.8E-08	7.0E-07
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	0.87627	0.90513	0.00027	0.80666	3.24E-06	1.40E-03	1.67E-06	3.44E-05	1.44E-03	5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	0.0E+00	0.0E+00	3.3E-07	3.4E-07	7.3E-08	7.4E-07
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	0.93437	0.96678	0.00028	0.87147	3.46E-06	1.50E-03	1.74E-06	3.72E-05	1.54E-03	5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	0.0E+00	0.0E+00	3.5E-07	3.6E-07	7.8E-08	7.9E-07
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	0.99877	1.03529	0.00029	0.95268	3.70E-06	1.60E-03	1.80E-06	4.07E-05	1.65E-03	5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.3E-08	8.5E-07
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	1.06895	1.11026	0.0003	1.04011	3.96E-06	1.72E-03	1.86E-06	4.44E-05	1.77E-03	6.1E-07	1.8E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.0E-08	9.1E-07
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	1.14596	1.19286	0.0003	1.14162	4.24E-06	1.85E-03	1.86E-06	4.87E-05	1.90E-03	6.6E-07	2.0E-06	1.6E-06	1.4E-06	6.1E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.6E-08	9.8E-07
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	1.23114	1.28457	0.0003	1.26966	4.56E-06	1.99E-03	1.86E-06	5.42E-05	2.05E-03	7.1E-07	2.1E-06	1.7E-06	1.5E-06	6.6E-07	0.0E+00	0.0E+00	4.7E-07	4.8E-07	1.0E-07	1.1E-06
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	1.32422	1.38529	0.0003	1.42074	4.90E-06	2.14E-03	1.86E-06	6.06E-05	2.21E-03	7.7E-07	2.3E-06	1.8E-06	1.6E-06	7.1E-07	0.0E+00	0.0E+00	5.1E-07	5.2E-07	1.1E-07	1.1E-06
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	0.79586	0.82091	0.00023	0.73321	2.95E-06	1.27E-03	1.43E-06	3.13E-05	1.31E-03	4.5E-07	1.4E-06	1.1E-06	9.3E-07	4.2E-07	0.0E+00	0.0E+00	3.0E-07	3.1E-07	6.6E-08	6.7E-07
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	0.84195	0.87284	0.00024	0.78763	3.12E-06	1.35E-03	1.49E-06	3.36E-05	1.39E-03	4.8E-07	1.5E-06	1.1E-06	9.9E-07	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.0E-08	7.2E-07
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	0.88165	0.92942	0.00024	0.84801	3.26E-06	1.44E-03	1.49E-06	3.62E-05	1.48E-03	5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.5E-08	7.6E-07
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	0.94967	0.99172	0.00024	0.92106	3.51E-06	1.53E-03	1.49E-06	3.93E-05	1.58E-03	5.5E-07	1.6E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	8.0E-08	8.1E-07
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	1.02058	1.05992	0.00024	1.00602	3.78E-06	1.64E-03	1.49E-06	4.29E-05	1.69E-03	5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	0.0E+00	0.0E+00	3.9E-07	4.0E-07	8.6E-08	8.7E-07
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	1.08151	1.13422	0.00024	1.10359	4.00E-06	1.75E-03	1.49E-06	4.71E-05	1.81E-03	6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	0.0E+00	0.0E+00	4.1E-07	4.3E-07	9.2E-08	9.3E-07
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	1.16589	1.21601	0.00024	1.2244	4.31E-06	1.88E-03	1.49E-06	5.22E-05	1.94E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.5E-07	4.6E-07	9.8E-08	1.0E-06
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	1.24309	1.30485	0.00023	1.36765	4.60E-06	2.02E-03	1.43E-06	5.84E-05	2.08E-03	7.2E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	0.0E+00	0.0E+00	4.8E-07	4.9E-07	1.1E-07	1.1E-06
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	0.7419	0.76855	0.0002	0.71166	2.75E-06	1.19E-03	1.24E-06	3.04E-05	1.22E-03	4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.2E-08	6.3E-07
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	0.77846	0.80551	0.0002	0.76268	2.88E-06	1.25E-03	1.24E-06	3.25E-05	1.28E-03	4.4E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.5E-08	6.6E-07
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	0.81071	0.84424	0.0002	0.82007	3.00E-06	1.31E-03	1.24E-06	3.50E-05	1.35E-03	4.7E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.8E-08	6.9E-07
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	0.85472	0.88558	0.0002	0.88663	3.16E-06	1.37E-03	1.24E-06	3.78E-05	1.41E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.2E-08	7.3E-07
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	0.95795	1.01054	0.0002	0.97198	3.54E-06	1.56E-03	1.24E-06	4.15E-05	1.61E-03	5.6E-07	1.7E-06	1.3E-06	1.1E-06	5.2E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.2E-08	8.3E-07
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	1.00584	1.06557	0.00019	1.06296	3.72E-06	1.65E-03	1.18E-06	4.54E-05	1.70E-03	5.9E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	3.9E-07	4.0E-07	8.6E-08	8.8E-07
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	1.08518	1.14971	0.00018	1.17448	4.02E-06	1.78E-03	1.12E-06	5.01E-05	1.83E-03	6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.9E-07	0.0E+00	0.0E+00	4.2E-07	4.3E-07	9.3E-08	9.5E-07
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	1.13418	1.19979	0.00018	1.3044	4.20E-06	1.86E-03	1.12E-06	5.57E-05	1.92E-03	6.6E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.7E-08	9.9E-07
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	0.68995	0.71406	0.00017	0.68954	2.55E-06	1.10E-03	1.05E-06	2.94E-05	1.14E-03	3.9E-07	1.2E-06	9.4E-07	8.1E-07	3.7E-07	0.0E+00	0.0E+00	2.6E-07	2.7E-07	5.8E-08	5.9E-07
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	0.70145	0.73379	0.00017	0.73622	2.60E-06	1.14E-03	1.05E-06	3.14E-05	1.17E-03	4.1E-07	1.2E-06	9.7E-07	8.4E-07	3.8E-07	0.0E+00	0.0E+00	2.7E-07	2.8E-07	5.9E-08	6.0E-07
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	0.73387	0.77324	0.00017	0.79029	2.72E-06	1.20E-03	1.05E-06	3.37E-05	1.23E-03	4.3E-07	1.3E-06	1.0E-06	8.8E-07	4.0E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.3E-08	6.4E-07
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	0.77201	0.80585	0.00016	0.85257	2.86E-06	1.25E-03	9.92E-07	3.64E-05	1.29E-03	4.5E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	0.0E+00	0.0E+00	3.0E-07	3.0E-07	6.5E-08	6.6E-07
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	0.81839	0.8658	0.00016	0.92637	3.03E-06	1.34E-03	9.92E-07	3.95E-05	1.38E-03	4.8E-07	1.4E-06	1.1E-06	9.9E-07	4.4E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.0E-08	7.1E-07
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	0.87447	0.93282	0.00015	1.01271	3.24E-06	1.44E-03	9.30E-07	4.32E-05	1.49E-03	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.8E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.6E-08	7.7E-07
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	0.96203	1.00606	0.00014	1.1143	3.56E-06	1.56E-03	8.68E-07	4.75E-05	1.61E-03	5.6E-07	1.7E-06	1.3E-06	1.1E-06	5.2E-07	0.0E+00	0.0E+00	3.7

PHASE 2 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	1.55E-03	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
161	UCART3	439496	3762392.48	439496.01, 3762392.48	1.76075	1.81124	0.0009	1.23485	6.52E-06	2.80E-03	5.58E-06	5.27E-05	2.87E-03	9.9E-07	3.0E-06	2.4E-06	2.0E-06	9.2E-07	0.0E+00	0.0E+00	6.6E-07	6.8E-07	1.5E-07	1.5E-06
162	UCART3	439546	3762392.48	439546.01, 3762392.48	1.96992	2.02972	0.00105	1.34209	7.29E-06	3.14E-03	6.51E-06	5.73E-05	3.21E-03	1.1E-06	3.4E-06	2.7E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	7.4E-07	7.6E-07	1.6E-07	1.7E-06
163	UCART3	439196	3762442.48	439196.01, 3762442.48	1.01194	1.03599	0.00042	0.80146	3.74E-06	1.60E-03	2.60E-06	3.42E-05	1.64E-03	5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.3E-08	8.5E-07
164	UCART3	439246	3762442.48	439246.01, 3762442.48	1.09489	1.12211	0.00046	0.85805	4.05E-06	1.74E-03	2.85E-06	3.66E-05	1.78E-03	6.2E-07	1.9E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.0E-08	9.2E-07
165	UCART3	439296	3762442.48	439296.01, 3762442.48	1.18984	1.22094	0.00052	0.92165	4.40E-06	1.89E-03	3.22E-06	3.93E-05	1.94E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.4E-07	4.6E-07	9.8E-08	1.0E-06
166	UCART3	439346	3762442.48	439346.01, 3762442.48	1.29827	1.33392	0.00058	0.99222	4.80E-06	2.06E-03	3.60E-06	4.23E-05	2.11E-03	7.3E-07	2.2E-06	1.7E-06	1.5E-06	6.8E-07	0.0E+00	0.0E+00	4.9E-07	5.0E-07	1.1E-07	1.1E-06
167	UCART3	439396	3762442.48	439396.01, 3762442.48	1.42362	1.46479	0.00066	1.07138	5.27E-06	2.27E-03	4.09E-06	4.57E-05	2.32E-03	8.0E-07	2.4E-06	1.9E-06	1.7E-06	7.5E-07	0.0E+00	0.0E+00	5.3E-07	5.5E-07	1.2E-07	1.2E-06
168	UCART3	439446	3762442.48	439446.01, 3762442.48	1.5698	1.61779	0.00075	1.16048	5.81E-06	2.50E-03	4.65E-06	4.95E-05	2.56E-03	8.9E-07	2.7E-06	2.1E-06	1.8E-06	8.2E-07	0.0E+00	0.0E+00	5.9E-07	6.0E-07	1.3E-07	1.3E-06
169	UCART3	439496	3762442.48	439496.01, 3762442.48	1.74153	1.79794	0.00087	1.26058	6.44E-06	2.78E-03	5.39E-06	5.38E-05	2.85E-03	9.9E-07	3.0E-06	2.4E-06	2.0E-06	9.1E-07	0.0E+00	0.0E+00	6.5E-07	6.7E-07	1.4E-07	1.5E-06
170	UCART3	439546	3762442.48	439546.01, 3762442.48	1.94563	2.01263	0.00101	1.37345	7.20E-06	3.11E-03	6.26E-06	5.86E-05	3.19E-03	1.1E-06	3.3E-06	2.6E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	7.3E-07	7.5E-07	1.6E-07	1.6E-06
171	UCART3	439196	3762492.48	439196.01, 3762492.48	0.99968	1.02519	0.0004	0.80585	3.70E-06	1.59E-03	2.48E-06	3.44E-05	1.63E-03	5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.2E-08	8.4E-07
172	UCART3	439246	3762492.48	439246.01, 3762492.48	1.08066	1.10953	0.00045	0.86361	4.00E-06	1.72E-03	2.79E-06	3.69E-05	1.76E-03	6.1E-07	1.8E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.9E-08	9.1E-07
173	UCART3	439296	3762492.48	439296.01, 3762492.48	1.17318	1.20619	0.0005	0.9288	4.34E-06	1.87E-03	3.10E-06	3.96E-05	1.91E-03	6.6E-07	2.0E-06	1.6E-06	1.4E-06	6.1E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.7E-08	9.9E-07
174	UCART3	439346	3762492.48	439346.01, 3762492.48	1.27909	1.31708	0.00056	1.00204	4.73E-06	2.04E-03	3.47E-06	4.28E-05	2.09E-03	7.2E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	0.0E+00	0.0E+00	4.8E-07	4.9E-07	1.1E-07	1.1E-06
175	UCART3	439396	3762492.48	439396.01, 3762492.48	1.40087	1.44481	0.00064	1.08414	5.18E-06	2.23E-03	3.97E-06	4.63E-05	2.29E-03	7.9E-07	2.4E-06	1.9E-06	1.6E-06	7.4E-07	0.0E+00	0.0E+00	5.3E-07	5.4E-07	1.2E-07	1.2E-06
176	UCART3	439446	3762492.48	439446.01, 3762492.48	1.54239	1.59365	0.00072	1.17695	5.71E-06	2.47E-03	4.46E-06	5.02E-05	2.53E-03	8.7E-07	2.6E-06	2.1E-06	1.8E-06	8.1E-07	0.0E+00	0.0E+00	5.8E-07	6.0E-07	1.3E-07	1.3E-06
177	UCART3	439496	3762492.48	439496.01, 3762492.48	1.70904	1.76973	0.00083	1.28329	6.32E-06	2.74E-03	5.15E-06	5.48E-05	2.80E-03	9.7E-07	2.9E-06	2.3E-06	2.0E-06	9.0E-07	0.0E+00	0.0E+00	6.4E-07	6.6E-07	1.4E-07	1.4E-06
178	UCART3	439546	3762492.48	439546.01, 3762492.48	1.90609	1.97857	0.00097	1.4037	7.05E-06	3.06E-03	6.01E-06	5.99E-05	3.13E-03	1.1E-06	3.3E-06	2.6E-06	2.2E-06	1.0E-06	0.0E+00	0.0E+00	7.2E-07	7.4E-07	1.6E-07	1.6E-06
179	UCART3	439196	3762542.48	439196.01, 3762542.48	0.98442	1.01102	0.00039	0.80882	3.64E-06	1.56E-03	2.42E-06	3.45E-05	1.60E-03	5.6E-07	1.7E-06	1.3E-06	1.1E-06	5.2E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.1E-08	8.3E-07
180	UCART3	439246	3762542.48	439246.01, 3762542.48	1.06292	1.09297	0.00044	0.86752	3.93E-06	1.69E-03	2.73E-06	3.70E-05	1.73E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.6E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.8E-08	9.0E-07
181	UCART3	439296	3762542.48	439296.01, 3762542.48	1.15235	1.18668	0.00049	0.93406	4.26E-06	1.84E-03	3.04E-06	3.99E-05	1.88E-03	6.5E-07	2.0E-06	1.6E-06	1.3E-06	6.0E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.5E-08	9.7E-07
182	UCART3	439346	3762542.48	439346.01, 3762542.48	1.2543	1.2937	0.00055	1.00889	4.64E-06	2.00E-03	3.41E-06	4.31E-05	2.05E-03	7.1E-07	2.1E-06	1.7E-06	1.5E-06	6.6E-07	0.0E+00	0.0E+00	4.7E-07	4.8E-07	1.0E-07	1.1E-06
183	UCART3	439396	3762542.48	439396.01, 3762542.48	1.37173	1.41743	0.00062	1.09419	5.08E-06	2.19E-03	3.84E-06	4.67E-05	2.25E-03	7.8E-07	2.3E-06	1.9E-06	1.6E-06	7.2E-07	0.0E+00	0.0E+00	5.2E-07	5.3E-07	1.1E-07	1.2E-06
184	UCART3	439446	3762542.48	439446.01, 3762542.48	1.50757	1.56095	0.0007	1.19112	5.58E-06	2.41E-03	4.34E-06	5.08E-05	2.48E-03	8.6E-07	2.6E-06	2.0E-06	1.8E-06	8.0E-07	0.0E+00	0.0E+00	5.7E-07	5.8E-07	1.3E-07	1.3E-06
185	UCART3	439496	3762542.48	439496.01, 3762542.48	1.66664	1.72991	0.0008	1.30321	6.17E-06	2.68E-03	4.96E-06	5.56E-05	2.74E-03	9.5E-07	2.9E-06	2.3E-06	2.0E-06	8.8E-07	0.0E+00	0.0E+00	6.3E-07	6.5E-07	1.4E-07	1.4E-06
186	UCART3	439546	3762542.48	439546.01, 3762542.48	1.85357	1.92896	0.00092	1.4306	6.86E-06	2.98E-03	5.70E-06	6.10E-05	3.06E-03	1.1E-06	3.2E-06	2.5E-06	2.2E-06	9.8E-07	0.0E+00	0.0E+00	7.0E-07	7.2E-07	1.5E-07	1.6E-06
187	UCART3	439196	3762592.48	439196.01, 3762592.48	0.96663	0.99392	0.00038	0.81015	3.58E-06	1.54E-03	2.36E-06	3.46E-05	1.58E-03	5.5E-07	1.6E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	8.0E-08	8.1E-07
188	UCART3	439246	3762592.48	439246.01, 3762592.48	1.04259	1.07355	0.00043	0.87038	3.86E-06	1.66E-03	2.67E-06	3.71E-05	1.70E-03	5.9E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	3.9E-07	4.0E-07	8.6E-08	8.8E-07
189	UCART3	439296	3762592.48	439296.01, 3762592.48	1.12843	1.16366	0.00047	0.93792	4.18E-06	1.80E-03	2.91E-06	4.00E-05	1.85E-03	6.4E-07	1.9E-06	1.5E-06	1.3E-06	5.9E-07	0.0E+00	0.0E+00	4.2E-07	4.4E-07	9.4E-08	9.5E-07
190	UCART3	439346	3762592.48	439346.01, 3762592.48	1.226	1.26632	0.00053	1.01424	4.54E-06	1.96E-03	3.29E-06	4.33E-05	2.01E-03	7.0E-07	2.1E-06	1.7E-06	1.4E-06	6.5E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
191	UCART3	439396	3762592.48	439396.01, 3762592.48	1.33778	1.38432	0.00059	1.10155	4.95E-06	2.14E-03	3.66E-06	4.70E-05	2.20E-03	7.6E-07	2.3E-06	1.8E-06	1.6E-06	7.1E-07	0.0E+00	0.0E+00	5.0E-07	5.2E-07	1.1E-07	1.1E-06
192	UCART3	439446	3762592.48	439446.01, 3762592.48	1.46682	1.52115	0.00067	1.20229	5.43E-06	2.35E-03	4.15E-06	5.13E-05	2.41E-03	8.4E-07	2.5E-06	2.0E-06	1.7E-06	7.8E-07	0.0E+00	0.0E+00	5.5E-07	5.7E-07	1.2E-07	1.2E-06
193	UCART3	439496	3762592.48	439496.01, 3762592.48	1.61682	1.68108	0.00076	1.31998	5.98E-06	2.60E-03	4.71E-06	5.63E-05	2.67E-03	9.2E-07	2.8E-06	2.2E-06	1.9E-06	8.6E-07	0.0E+00	0.0E+00	6.1E-07	6.3E-07	1.4E-07	1.4E-06
194	UCART3	439546	3762592.48	439546.01, 3762592.48	1.79209	1.86849	0.00087	1.45505	6.63E-06	2.89E-03	5.39E-06	6.21E-05	2.96E-03	1.0E-06	3.1E-06	2.4E-06	2.1E-06	9.5E-07	0.0E+00	0.0E+00	6.8E-07	7.0E-07	1.5E-07	1.5E-06
195	UCART3	439196	3762642.48	439196.01, 3762642.48	0.94676	0.97434	0.00038	0.80974	3.50E-06	1.51E-03	2.36E-06	3.46E-05	1.55E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.6E-07	7.8E-08	8.0E-07
196	UCART3	439246	3762642.48	439246.01, 3762642.48	1.01946	1.05071	0.00041	0.87069	3.77E-06	1.63E-03	2.54E-06	3.72E-05	1.67E-03	5.8E-07	1.7E-06	1.4E-06	1.2E-06	5.4E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.5E-08	8.6E-07
197	UCART3	439296	3762642.48	439296.01, 3762642.48	1.10146	1.13686	0.00046	0.93868	4.08E-06	1.76E-03	2.85E-06	4.01E-05	1.81E-03	6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	0.0E+00	0.0E+00	4.1E-07	4.3E-07	9.1E-08	9.3E-07
198	UCART3	439346	3762642.48	439346.01, 3762642.48	1.19416	1.23453	0.00051	1.01604	4.42E-06	1.91E-03	3.16E-06	4.34E-05	1.96E-03	6.8E-07	2.0E-06	1.6E-06	1.4E-06	6.3E-07	0.0E+00	0.0E+00	4.5E-07	4.6E-07	9.9E-08	1.0E-06
199	UCART3	439396	3762642.48	439396.01, 3762642.48	1.30008	1.34671	0.00057	1.10589	4.81E-06	2.08E-03	3.53E-06	4.72E-05	2.14E-03	7.4E-07	2.2E-06	1.8E-06	1.5E-06	6.9E-07	0.0E+00	0.0E+00	4.9E-07	5.0E-07	1.1E-07	1.1E-06
200	UCART3	439446	3762642.48	439446.01, 3762642.48	1.42148	1.4758	0.00063	1.21001	5.26E-06	2.28E-03	3.91E-06	5.16E-05	2.34E-03	8.1E-07	2.4E-06	1.9E-06	1.7E-06	7.5E-07	0.0E+00	0.0E+00	5.4E-07	5.5E-07	1.2E-07	1.2E-06
201	UCART3	439496	3762642.48	439496.01, 3762642.48	1.56136	1.6254	0.00071	1.3327	5.78E-06	2.51E-03	4.40E-06	5.69E-05	2.58E-03	8.9E-07	2.7E-06	2.1E-06	1.8E-06	8.3E-07	0.0E+00	0.0E+00	5.9E-07	6.1E-07	1.3E-07	1.3E-06
202	UCART3	439546	3762642.48	439546.01, 3762642.48	1.72375	1.79968	0.0008	1.47559	6.38E-06	2.78E-03	4.96E-06	6.30E-05	2.86E-03	9.9E-07	3.0E-06	2.4E-06	2.0E-06	9.2E-07	0.0E+00	0.0E+00	6.6E-07	6.7E-07	1.4E-07	1.5E-06
203	UCART3	439196	3762692.48	439196.01, 3762692.48	0.92511	0.95268	0.00036	0.80734	3.42E-06	1.47E-03	2.23E-06	3.45E-05	1.51E-03	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.9E-07	0.0E+00	0.0E+00	3.5E-07	3.6E-07	7.7E-08	7.8E-07
204	UCART3	439246	3762692.48	439246.01, 3762692.48	0.99439	1.02552	0.0004	0.86839	3.68E-06	1.59E-03	2.48E-06	3.71E-05	1.63E-03	5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.3E-08	8.4E-07
205	UCART3	439296	3762692.48	439296.01, 3762692.48	1.0721	1.10747	0.00044	0.93787	3.97E-06	1.71E-03	2.73E-06	4.00E-05	1.76E-03	6.1E-07	1.8E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.9E-08	9.1E-07
206	UCART3	439346	3762692.48	439346.01, 3762692.48	1.15987	1.20024	0.00048	1.01688	4.29E-06	1.86E-03	2.98E-06	4.34E-05	1.91E-03	6.6E-07	2.0E-06	1.6E-06	1.4E-06	6.1E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.7E-08	9.8E-07
207	UCART3	439396	3762692.48	439396.01, 3762692.48	1.25937	1.30559	0.00053	1.10718	4.66E-06	2.02E-03	3.29E-06	4.72E-05	2.07E-03	7.2E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	0.0E+00	0.0E+00	4.8E-07	4.9E-07	1.1E-07	1.1E-06
208	UCART3	439446	3762692.48	439446.01, 3762692.48	1.37246	1.42612	0.00059	1.21383	5.08E-06	2.21E-03	3.66E-06	5.18E-05	2.27E-03	7.8E-07	2.4E-06	1.9E-06	1.6E-06	7.3E-07	0.0E+00	0.0E+00	5.2E-07	5.3E-07	1.1E-07	1.2E-06
209	UCART3	439496	3762692.48	439496.01, 3762692.48	1.50157	1.56459	0.00065	1.3409	5.56E-06	2.42E-03	4.03E-06	5.72E-05	2.49E-03	8.6E-07	2.6E-06	2.1E-06	1.8E-06	8.0E-07	0.0E+00	0.0E+00	5.7E-07	5.9E-07	1.3E-07	1.3E-06
210	UCART3	439546	3762692.48	439546.01, 3762692.48	1.65037	1.72475	0.00071	1.49101	6.11E-06	2.67E-03	4.40E-06	6.36E-05	2.74E-03	9.5E-07	2.9E-06	2.3E-06	2.0E-06	8.8E-07	0.0E+00	0.0E+00	6.3E-07	6.5E-07	1.4E-07	1.4E-06
211	UCART3	439196	3762742.48	439196.01, 3762742.48	0.90197	0.92929	0.00035	0.80178	3.34E-06	1.44E-03	2.17E-06	3.42E-05	1.48E-03	5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.5E-08	7.6E-07
212	UCART3	439246	3762742.48	439246.01, 3762742.48	0.96773	0.99847	0.00038	0.86346	3.58E-06	1.54E-03	2.36E-06	3.68E-05	1.59E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	8.0E-08	8.2E-07
213	UCART3	439296	3762742.48	439296.01, 3762742.48	1.04094	1.0758	0.00041	0.93312	3.85E-06	1.66E-03	2.54E-06	3.98E-05	1.71E-03	5.9E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	3.9E-07	4.0E-07	8.7E-08	8.8E-07
214	UCART3	439346	3762742.48	439346.01, 3762742.48	1.12322	1.16292	0.00045	1.01262	4.16E-06	1.80E-03	2.79E-06	4.32E-05	1.85E-03	6.4E-07	1.9E-06	1.5E-06	1.3E-06	5.9E-07	0.0E+00	0.0E+00	4.2E-07	4.4E-07	9.4E-08	9.5E-07
215	UCART3	439396	3762742.48	439396.01, 3762742.48	1.21579	1.26131	0.00048	1.10483	4.50E-06	1.95E-03	2.98E-06	4.71E-05	2.01E-03	6.9E-07	2.1E-06	1.7E-06	1.4E-06	6.4E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
216	UCART3	439446	3762742.48	439446.01, 3762742.48	1.32033	1.37294	0.00053	1.21317	4.89E-06	2.12E-03	3.29E-06	5.18E-05	2.18E-03	7.6E-07	2.3E-06	1.8E-06	1.6E-06	7.0E-07	0.0E+00	0.0E+00	5.0E-07	5.1E-07	1.1E-07	1.1E-06
217	UCART3	439496	3762742.48	439496.01, 3762742.48	1.43841	1.4998	0.00057	1.32958	5.32E-06	2.32E-03	3.53E-06	5.67E-05	2.39E-03	8.3E-07	2.5E-06	2.0E-06	1.7E-06	7.7E-07	0.0E+00	0.0E+00	5.5E-07	5.6E-07	1.2E-07	1.2E-06
218	UCART3	439546	3762742.48	439546.01, 3762742.48	1.5735	1.64551	0.00061	1.48392	5.82E-06	2.55E-03	3.78E-06	6.33E-05	2.62E-03	9.1E-07	2.7E-06	2.2E-06	1.9E-06	8.4E-07	0.0E+00	0.0E+00	6.0E-07	6.2E-07	1.3E-07	1.4E-06
219	UCART3	439196	3762792.48	439196.01, 3762792.48	0.8776	0.90447	0.00033	0.77828	3.25E-06	1.40E-03	2.05E-06	3.32E-05	1.44E-03	5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	0.0E+00	0.0E+00	3.3E-07	3.4E-07	7.3E-08	7.4E-07
220	UCART3	439246	3762792.48	439246.01, 3762792.48	0.93972	0.96988	0.00035	0.85482	3.48E-06	1.50E-03	2.17E-06	3.65E-05	1.54E-03	5.3E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.5E-07	3.6E-07	7.8E-08	8.0E-07
221	UCART3	439296	3762792.48	439296.01, 3762792.48	1.00818	1.04234	0.00038	0.91413	3.73E-06	1.61E-03	2.36E-06	3.90E-05	1.66E-03	5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.4E-08	8.6E-07
222	UCART3	439346	3762792.48	439346.01, 3762792.48	1.08462	1.12346	0.0004	0.99087	4.01E-06	1.74E-03	2.48E-06	4.23E-05	1.79E-03	6.2E-07	1.9E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.1E-08	9.2E-07
223	UCART3	439396	3762792.48	439396.01, 3762792.48	1.17013	1.21453	0.00043	1.0822	4.33E-06	1.88E-03	2.67E-06	4.62E-05	1.93E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.4E-07	4.6E-07	9.8E-08	1.0E-06
224	UCART3	439446	3762792.48	439446.01, 3762792.48	1.26616	1.31721	0.00046	1.19353	4.69E-06	2.04E-03	2.85E-06	5.09E-05	2.10E-03	7.3E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	0.0E+00	0.0E+00	4.8E-07	4.9E-07	1.1E-07	1.1E-06
225	UCART3	439496	3762792.48	439496.01, 3762792.48	1.37344	1.43259	0.00049	1.31114	5.08E-06	2.22E-03	3.04E-06	5.59E-05	2.28E-03	7.9E-07	2.4E-06	1.9E-06	1.6E-06	7.3E-07	0.0E+00	0.0E+00	5.2E-07	5.4E-07	1.2E-07	1.2E-06
226	UCART3	439546	3762792.48	439546.01, 3762792.48	1.49489	1.5638	0.00051	1.46767	5.53E-06	2.42E-03	3.16E-06	6.26E-05	2.49E-03	8.6E-07	2.6E-06	2.1E-06	1.8E-06	8.0E-07	0.0E+00	0.0E+00	5.7E-07	5.9E-07	1.3E-07	1.3E-06
227	UCART3	439196	3762842.48	439196.01, 3762842.48	0.85221	0.87852	0.0003	0.76574	3.15E-06	1.36E-03	1.86E-06	3.27E-05	1.40E-03	4.8E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.1E-08	7.2E-07
228	UCART3	439246	3762842.48	439246.01, 3762842.48	0.91039	0.93989	0.00032	0.8283	3.37E-06	1.45E-03	1.98E-06	3.53E-05	1.49E-03	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.8E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.6E-08	7.7E-07
229	UCART3	439296	3762842.48	439296.01, 3762842.48	0.97431	1.00757	0.00034	0.89559	3.61E-06	1.56E-03	2.11E-06	3.82E-05	1.60E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.1E-08	8.3E-07
230	UCART3	439346	3762842.48	439346.01, 3762842.48	1.04508	1.08277	0.00036	0.97252	3.87E-06	1.67E-03	2.23E-06	4.15E-05	1.72E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.7E-08	8.9E-07
231	UCART3	439396	3762842.48	439396.01, 3762842.48	1.12352	1.16645	0.00037	1.06025	4.16E-06	1.80E-03	2.29E-06	4.52E-05	1.86E-03	6.4E-07	1.9E-06	1.5E-06	1.3E-06	6.0E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.4E-08	9.6E-07
232	UCART3	439446	3762842.48	439446.01, 3762842.48	1.21089	1.26002	0.00039	1.16663	4.48E-06	1.95E-03	2.42E-06	4.98E-05	2.01E-03	6.9E-07	2.1E-06	1.7E-06	1.4E-06	6.4E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
233	UCART3	439496	3762842.48	439496.01, 3762842.48	1.30768	1.36419	0.0004	1.29149	4.84E-06	2.11E-03	2.48E-06	5.51E-05	2.17E-03	7.5E-07	2.3E-06	1.8E-06	1.6E-06	7.0E-07	0.0E+00	0.0E+00	5.0E-07	5.1E-07	1.1E-07	1.1E-06
234	UCART3	439546	3762842.48	439546.01, 3762842.48	1.41613	1.48145	0.00041	1.44725	5.24E-06	2.29E-03	2.54E-06	6.18E-05	2.36E-03	8.2E-07	2.5E-06	1.9E-06	1.7E-06	7.6E-07	0.0E+00	0.0E+00	5.4E-07	5.6E

PHASE 2 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	1.55E-03	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	5.15498	5.49642	0.0037	2.66351	1.91E-05	8.50E-03	2.29E-05	1.14E-04	8.66E-03	3.0E-06	9.0E-06	7.1E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.0E-06	2.0E-06	4.4E-07	4.5E-06
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	1.99715	2.07916	0.00102	1.49331	7.39E-06	3.22E-03	6.32E-06	6.37E-05	3.29E-03	1.1E-06	3.4E-06	2.7E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	7.6E-07	7.8E-07	1.7E-07	1.7E-06
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	2.25055	2.35049	0.0012	1.64665	8.33E-06	3.64E-03	7.44E-06	7.03E-05	3.72E-03	1.3E-06	3.9E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	8.5E-07	8.8E-07	1.9E-07	1.9E-06
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	2.55914	2.68302	0.00143	1.82289	9.47E-06	4.15E-03	8.87E-06	7.78E-05	4.25E-03	1.5E-06	4.4E-06	3.5E-06	3.0E-06	1.4E-06	0.0E+00	0.0E+00	9.8E-07	1.0E-06	2.2E-07	2.2E-06
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	2.94	3.0962	0.00171	2.02432	1.09E-05	4.79E-03	1.06E-05	8.64E-05	4.90E-03	1.7E-06	5.1E-06	4.0E-06	3.5E-06	1.6E-06	0.0E+00	0.0E+00	1.1E-06	1.2E-06	2.5E-07	2.5E-06
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	3.41805	3.61875	0.00208	2.25264	1.26E-05	5.60E-03	1.29E-05	9.61E-05	5.72E-03	2.0E-06	6.0E-06	4.7E-06	4.1E-06	1.8E-06	0.0E+00	0.0E+00	1.3E-06	1.3E-06	2.9E-07	3.0E-06
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	4.0295	4.29261	0.00256	2.50823	1.49E-05	6.64E-03	1.59E-05	1.07E-04	6.78E-03	2.3E-06	7.1E-06	5.6E-06	4.8E-06	2.2E-06	0.0E+00	0.0E+00	1.6E-06	1.6E-06	3.4E-07	3.5E-06
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	4.8312	5.18988	0.00317	2.80464	1.79E-05	8.03E-03	1.97E-05	1.20E-04	8.19E-03	2.8E-06	8.6E-06	6.8E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	1.9E-06	1.9E-06	4.1E-07	4.2E-06
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	1.93214	2.0162	0.00097	1.52456	7.15E-06	3.12E-03	6.01E-06	6.51E-05	3.20E-03	1.1E-06	3.3E-06	2.6E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	7.3E-07	7.5E-07	1.6E-07	1.6E-06
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	2.16811	2.27031	0.00112	1.69088	8.02E-06	3.51E-03	6.94E-06	7.22E-05	3.60E-03	1.2E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	8.3E-07	8.5E-07	1.8E-07	1.9E-06
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	2.45224	2.57845	0.00131	1.88447	9.07E-06	3.99E-03	8.12E-06	8.04E-05	4.09E-03	1.4E-06	4.3E-06	3.4E-06	2.9E-06	1.3E-06	0.0E+00	0.0E+00	9.4E-07	9.6E-07	2.1E-07	2.1E-06
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	2.79882	2.957	0.00154	2.10765	1.04E-05	4.57E-03	9.55E-06	8.99E-05	4.68E-03	1.6E-06	4.9E-06	3.9E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.1E-06	1.1E-06	2.4E-07	2.4E-06
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	3.22749	3.42935	0.00181	2.36354	1.19E-05	5.30E-03	1.12E-05	1.01E-04	5.43E-03	1.9E-06	5.7E-06	4.5E-06	3.9E-06	1.7E-06	0.0E+00	0.0E+00	1.2E-06	1.3E-06	2.8E-07	2.8E-06
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	3.76566	4.0287	0.00214	2.6539	1.39E-05	6.23E-03	1.33E-05	1.13E-04	6.37E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.0E-06	0.0E+00	0.0E+00	1.5E-06	1.5E-06	3.2E-07	3.3E-06
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	4.4498	4.80378	0.00253	2.98924	1.65E-05	7.43E-03	1.57E-05	1.28E-04	7.59E-03	2.6E-06	7.9E-06	6.3E-06	5.4E-06	2.4E-06	0.0E+00	0.0E+00	1.7E-06	1.8E-06	3.8E-07	3.9E-06
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	1.85831	1.9424	0.00089	1.55292	6.88E-06	3.00E-03	5.52E-06	6.63E-05	3.08E-03	1.1E-06	3.2E-06	2.5E-06	2.2E-06	9.9E-07	0.0E+00	0.0E+00	7.1E-07	7.3E-07	1.6E-07	1.6E-06
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	2.07468	2.17648	0.00101	1.73377	7.68E-06	3.37E-03	6.26E-06	7.40E-05	3.45E-03	1.2E-06	3.6E-06	2.9E-06	2.5E-06	1.1E-06	0.0E+00	0.0E+00	7.9E-07	8.1E-07	1.8E-07	1.8E-06
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	2.33232	2.45709	0.00116	1.94744	8.63E-06	3.80E-03	7.19E-06	8.31E-05	3.90E-03	1.3E-06	4.1E-06	3.2E-06	2.8E-06	1.3E-06	0.0E+00	0.0E+00	9.0E-07	9.2E-07	2.0E-07	2.0E-06
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	2.64179	2.79708	0.00132	2.20092	9.78E-06	4.33E-03	8.18E-06	9.39E-05	4.44E-03	1.5E-06	4.6E-06	3.7E-06	3.2E-06	1.4E-06	0.0E+00	0.0E+00	1.0E-06	1.0E-06	2.2E-07	2.3E-06
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	3.01808	3.21414	0.0015	2.49639	1.12E-05	4.97E-03	9.30E-06	1.07E-04	5.10E-03	1.8E-06	5.3E-06	4.2E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	1.2E-06	1.2E-06	2.6E-07	2.6E-06
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	3.479	3.73144	0.00169	2.84011	1.29E-05	5.77E-03	1.05E-05	1.21E-04	5.92E-03	2.0E-06	6.2E-06	4.9E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.4E-06	1.4E-06	3.0E-07	3.1E-06
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	4.04607	4.37884	0.00188	3.22804	1.50E-05	6.77E-03	1.17E-05	1.38E-04	6.94E-03	2.4E-06	7.3E-06	5.7E-06	5.0E-06	2.2E-06	0.0E+00	0.0E+00	1.6E-06	1.6E-06	3.5E-07	3.6E-06
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	1.77805	1.86071	0.0008	1.57668	6.58E-06	2.88E-03	4.96E-06	6.73E-05	2.96E-03	1.0E-06	3.1E-06	2.4E-06	2.1E-06	9.5E-07	0.0E+00	0.0E+00	6.8E-07	7.0E-07	1.5E-07	1.5E-06
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	1.97314	2.07281	0.00088	1.76733	7.30E-06	3.21E-03	5.46E-06	7.54E-05	3.29E-03	1.1E-06	3.4E-06	2.7E-06	2.4E-06	1.1E-06	0.0E+00	0.0E+00	7.6E-07	7.8E-07	1.7E-07	1.7E-06
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	2.2034	2.32449	0.00098	2.00637	8.15E-06	3.60E-03	6.08E-06	8.56E-05	3.70E-03	1.3E-06	3.9E-06	3.1E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	8.5E-07	8.7E-07	1.9E-07	1.9E-06
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	2.47549	2.6245	0.00108	2.29363	9.16E-06	4.06E-03	6.70E-06	9.79E-05	4.17E-03	1.4E-06	4.4E-06	3.4E-06	3.0E-06	1.3E-06	0.0E+00	0.0E+00	9.6E-07	9.8E-07	2.1E-07	2.2E-06
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	2.7984	2.98437	0.00117	2.63646	1.04E-05	4.62E-03	7.25E-06	1.13E-04	4.75E-03	1.6E-06	5.0E-06	3.9E-06	3.4E-06	1.5E-06	0.0E+00	0.0E+00	1.1E-06	1.1E-06	2.4E-07	2.4E-06
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	3.18493	3.42014	0.00125	3.05981	1.18E-05	5.29E-03	7.75E-06	1.31E-04	5.44E-03	1.9E-06	5.7E-06	4.5E-06	3.9E-06	1.7E-06	0.0E+00	0.0E+00	1.2E-06	1.3E-06	2.8E-07	2.8E-06
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	3.64727	3.94906	0.00132	3.54711	1.35E-05	6.11E-03	8.18E-06	1.51E-04	6.28E-03	2.2E-06	6.6E-06	5.2E-06	4.5E-06	2.0E-06	0.0E+00	0.0E+00	1.4E-06	1.5E-06	3.2E-07	3.2E-06
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	0.65733	0.65387	0.00015	0.51937	2.43E-06	1.01E-03	9.30E-07	2.22E-05	1.04E-03	3.6E-07	1.1E-06	8.6E-07	7.4E-07	3.3E-07	0.0E+00	0.0E+00	2.4E-07	2.4E-07	5.3E-08	5.4E-07
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	0.68562	0.68115	0.00015	0.53946	2.54E-06	1.05E-03	9.30E-07	2.30E-05	1.08E-03	3.7E-07	1.1E-06	8.9E-07	7.7E-07	3.5E-07	0.0E+00	0.0E+00	2.5E-07	2.5E-07	5.5E-08	5.6E-07
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	0.71655	0.71099	0.00016	0.56168	2.65E-06	1.10E-03	9.92E-07	2.40E-05	1.13E-03	3.9E-07	1.2E-06	9.3E-07	8.1E-07	3.6E-07	0.0E+00	0.0E+00	2.6E-07	2.7E-07	5.7E-08	5.8E-07
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	0.74866	0.74187	0.00017	0.58513	2.77E-06	1.15E-03	1.05E-06	2.50E-05	1.18E-03	4.1E-07	1.2E-06	9.7E-07	8.4E-07	3.8E-07	0.0E+00	0.0E+00	2.7E-07	2.8E-07	6.0E-08	6.1E-07
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	0.78206	0.77393	0.00018	0.61002	2.89E-06	1.20E-03	1.12E-06	2.60E-05	1.23E-03	4.2E-07	1.3E-06	1.0E-06	8.8E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.2E-08	6.3E-07
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	0.81654	0.80695	0.00019	0.63637	3.02E-06	1.25E-03	1.18E-06	2.72E-05	1.28E-03	4.4E-07	1.3E-06	1.1E-06	9.1E-07	4.1E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.5E-08	6.6E-07
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	0.85178	0.84063	0.00021	0.66409	3.15E-06	1.30E-03	1.30E-06	2.83E-05	1.33E-03	4.6E-07	1.4E-06	1.1E-06	9.5E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.1E-07	6.8E-08	6.9E-07
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	0.88901	0.87623	0.00024	0.69417	3.29E-06	1.36E-03	1.49E-06	2.96E-05	1.39E-03	4.8E-07	1.5E-06	1.1E-06	9.9E-07	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.0E-08	7.2E-07
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	0.92567	0.91114	0.00027	0.72501	3.43E-06	1.41E-03	1.67E-06	3.09E-05	1.45E-03	5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	0.0E+00	0.0E+00	3.3E-07	3.4E-07	7.3E-08	7.5E-07
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	0.68087	0.67802	0.00016	0.53415	2.52E-06	1.05E-03	9.92E-07	2.28E-05	1.08E-03	3.7E-07	1.1E-06	8.9E-07	7.7E-07	3.5E-07	0.0E+00	0.0E+00	2.5E-07	2.5E-07	5.4E-08	5.5E-07
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	0.71325	0.70942	0.00017	0.55644	2.64E-06	1.10E-03	1.05E-06	2.37E-05	1.12E-03	3.9E-07	1.2E-06	9.3E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	2.6E-07	2.7E-07	5.7E-08	5.8E-07
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	0.74848	0.74354	0.00017	0.58089	2.77E-06	1.15E-03	1.05E-06	2.48E-05	1.18E-03	4.1E-07	1.2E-06	9.7E-07	8.4E-07	3.8E-07	0.0E+00	0.0E+00	2.7E-07	2.8E-07	6.0E-08	6.1E-07
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	0.78272	0.77643	0.00018	0.60502	2.90E-06	1.20E-03	1.12E-06	2.58E-05	1.23E-03	4.3E-07	1.3E-06	1.0E-06	8.8E-07	4.0E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.2E-08	6.4E-07
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	0.81898	0.8112	0.00019	0.63102	3.03E-06	1.25E-03	1.18E-06	2.69E-05	1.29E-03	4.5E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	0.0E+00	0.0E+00	3.0E-07	3.0E-07	6.5E-08	6.6E-07
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	0.85688	0.84746	0.0002	0.6588	3.17E-06	1.31E-03	1.24E-06	2.81E-05	1.34E-03	4.7E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.8E-08	6.9E-07
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	0.89607	0.88486	0.00022	0.68831	3.32E-06	1.37E-03	1.36E-06	2.94E-05	1.40E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.1E-08	7.2E-07
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	0.93856	0.92545	0.00024	0.72107	3.47E-06	1.43E-03	1.49E-06	3.08E-05	1.47E-03	5.1E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.4E-08	7.6E-07
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	0.98095	0.96579	0.00027	0.75503	3.63E-06	1.49E-03	1.67E-06	3.22E-05	1.53E-03	5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	0.0E+00	0.0E+00	3.5E-07	3.6E-07	7.8E-08	7.9E-07
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	0.70444	0.70231	0.00018	0.54901	2.61E-06	1.09E-03	1.12E-06	2.34E-05	1.11E-03	3.9E-07	1.2E-06	9.2E-07	8.0E-07	3.6E-07	0.0E+00	0.0E+00	2.6E-07	2.6E-07	5.6E-08	5.7E-07
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	0.73946	0.73635	0.00018	0.57249	2.74E-06	1.14E-03	1.12E-06	2.44E-05	1.17E-03	4.0E-07	1.2E-06	9.6E-07	8.3E-07	3.7E-07	0.0E+00	0.0E+00	2.7E-07	2.8E-07	5.9E-08	6.0E-07
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	0.77732	0.77307	0.00018	0.59797	2.88E-06	1.20E-03	1.12E-06	2.55E-05	1.23E-03	4.2E-07	1.3E-06	1.0E-06	8.8E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.2E-08	6.3E-07
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	0.81526	0.80961	0.00019	0.62375	3.02E-06	1.25E-03	1.18E-06	2.66E-05	1.28E-03	4.4E-07	1.3E-06	1.1E-06	9.2E-07	4.1E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.5E-08	6.6E-07
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	0.85487	0.84761	0.0002	0.65106	3.16E-06	1.31E-03	1.24E-06	2.78E-05	1.34E-03	4.7E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.8E-08	6.9E-07
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	0.89815	0.88911	0.00021	0.68137	3.32E-06	1.38E-03	1.30E-06	2.91E-05	1.41E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.1E-08	7.3E-07
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	0.94301	0.93197	0.00023	0.71354	3.49E-06	1.44E-03	1.43E-06	3.04E-05	1.48E-03	5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.5E-08	7.6E-07
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	0.98988	0.97664	0.00025	0.74808	3.66E-06	1.51E-03	1.55E-06	3.19E-05	1.55E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.6E-07	7.8E-08	8.0E-07
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	1.0391	1.02348	0.00028	0.78547	3.85E-06	1.58E-03	1.74E-06	3.35E-05	1.62E-03	5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.2E-08	8.4E-07
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	0.7279	0.72658	0.00019	0.56391	2.69E-06	1.12E-03	1.18E-06	2.41E-05	1.15E-03	4.0E-07	1.2E-06	9.5E-07	8.2E-07	3.7E-07	0.0E+00	0.0E+00	2.6E-07	2.7E-07	5.8E-08	5.9E-07
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	0.76525	0.76297	0.0002	0.58833	2.83E-06	1.18E-03	1.24E-06	2.51E-05	1.21E-03	4.2E-07	1.3E-06	1.0E-06	8.6E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.1E-08	6.2E-07
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	0.80623	0.80282	0.0002	0.61514	2.98E-06	1.24E-03	1.24E-06	2.62E-05	1.27E-03	4.4E-07	1.3E-06	1.1E-06	9.1E-07	4.1E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.4E-08	6.6E-07
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	0.84922	0.84443	0.00021	0.64338	3.14E-06	1.31E-03	1.30E-06	2.75E-05	1.34E-03	4.6E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.8E-08	6.9E-07
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	0.89316	0.88669	0.00021	0.6725	3.31E-06	1.37E-03	1.30E-06	2.87E-05	1.40E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.1E-08	7.2E-07
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	0.94194	0.93357	0.00022	0.7052	3.49E-06	1.44E-03	1.36E-06	3.01E-05	1.48E-03	5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.8E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.5E-08	7.6E-07
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	0.99335	0.9828	0.00024	0.74029	3.68E-06	1.52E-03	1.49E-06	3.16E-05	1.56E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	7.9E-08	8.0E-07
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	1.04561	1.03256	0.00026	0.77694	3.87E-06	1.60E-03	1.61E-06	3.32E-05	1.64E-03	5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.3E-08	8.4E-07
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	1.10233	1.08654	0.00029	0.81773	4.08E-06	1.68E-03	1.80E-06	3.49E-05	1.72E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.7E-08	8.9E-07
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	0.7508	0.75037	0.00021	0.5786	2.78E-06	1.16E-03	1.30E-06	2.47E-05	1.19E-03	4.1E-07	1.2E-06	9.8E-07	8.5E-07	3.8E-07	0.0E+00	0.0E+00	2.7E-07	2.8E-07	6.0E-08	6.1E-07
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	0.79169	0.79038	0.00022	0.60476	2.93E-06	1.22E-03	1.36E-06	2.58E-05	1.25E-03	4.3E-07	1.3E-06	1.0E-06	8.9E-07	4.0E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.3E-08	6.5E-07
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	0.83638	0.834	0.00022	0.63325	3.09E-06	1.29E-03	1.36E-06	2.70E-05	1.32E-03	4.6E-07	1.4E-06	1.1E-06	9.4E-07	4.2E-07	0.0E+00	0.0E+00	3.0E-07	3.1E-07	6.7E-08	6.8E-07
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	0.88398	0.88027	0.00023	0.66355	3.27E-06	1.36E-03	1.43E-06	2.83E-05	1.39E-03	4.8E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.1E-08	7.2E-07
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	0.93374	0.92835	0.00023	0.69532	3.46E-06	1.44E-03	1.43E-06	2.97E-05	1.47E-03	5.1E-07	1.5E-06	1.2E-06	1.1E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.5E-08	7.6E-07
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	0.98806	0.98069	0.00024	0.73024	3.66E-06	1.52E-03	1.49E-06	3.12E-05	1.55E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	7.9E-08	8.0E-07
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	1.04523	1.03551	0.00025	0.76748	3.87E-06	1.60E-03	1.55E-06	3.27E-05	1.64E-03	5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.3E-08	8.5E-07
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	1.10653	1.0941	0.00027	0.80814	4.09E-06	1.69E-03	1.67E-06	3.45E-05	1.73E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.6E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.8E-08	8.9E-07
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	1.1708

PHASE 2 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	1.55E-03	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	1.09724	1.08873	0.00028	0.79443	4.06E-06	1.68E-03	1.74E-06	3.39E-05	1.72E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.7E-08	8.9E-07
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	1.16785	1.15647	0.00029	0.83887	4.32E-06	1.79E-03	1.80E-06	3.58E-05	1.83E-03	6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.9E-07	0.0E+00	0.0E+00	4.2E-07	4.3E-07	9.3E-08	9.4E-07
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	1.24229	1.22748	0.00032	0.88662	4.60E-06	1.90E-03	1.98E-06	3.78E-05	1.94E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.5E-07	4.6E-07	9.8E-08	1.0E-06
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	0.79559	0.79711	0.00025	0.60784	2.94E-06	1.23E-03	1.55E-06	2.59E-05	1.26E-03	4.4E-07	1.3E-06	1.0E-06	9.0E-07	4.1E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.4E-08	6.5E-07
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	0.84317	0.84406	0.00026	0.63727	3.12E-06	1.31E-03	1.61E-06	2.72E-05	1.34E-03	4.6E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.8E-08	6.9E-07
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	0.89336	0.89332	0.00027	0.66787	3.31E-06	1.38E-03	1.67E-06	2.85E-05	1.42E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	3.3E-07	3.3E-07	7.2E-08	7.3E-07
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	0.95056	0.94943	0.00028	0.70248	3.52E-06	1.47E-03	1.74E-06	3.00E-05	1.50E-03	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.8E-07	0.0E+00	0.0E+00	3.5E-07	3.5E-07	7.6E-08	7.8E-07
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	1.01203	1.00944	0.00029	0.73934	3.74E-06	1.56E-03	1.80E-06	3.15E-05	1.60E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.1E-08	8.2E-07
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	1.07908	1.07462	0.0003	0.77936	3.99E-06	1.66E-03	1.86E-06	3.33E-05	1.70E-03	5.9E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	3.9E-07	4.0E-07	8.6E-08	8.8E-07
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	1.15012	1.14321	0.00031	0.82174	4.26E-06	1.77E-03	1.92E-06	3.51E-05	1.81E-03	6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	0.0E+00	0.0E+00	4.2E-07	4.3E-07	9.2E-08	9.3E-07
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	1.22616	1.2162	0.00032	0.86738	4.54E-06	1.88E-03	1.98E-06	3.70E-05	1.92E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.8E-08	9.9E-07
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	1.31222	1.29863	0.00034	0.91956	4.86E-06	2.01E-03	2.11E-06	3.92E-05	2.05E-03	7.1E-07	2.1E-06	1.7E-06	1.5E-06	6.6E-07	0.0E+00	0.0E+00	4.7E-07	4.8E-07	1.0E-07	1.1E-06
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	0.81725	0.81985	0.00028	0.6223	3.02E-06	1.27E-03	1.74E-06	2.66E-05	1.30E-03	4.5E-07	1.4E-06	1.1E-06	9.3E-07	4.2E-07	0.0E+00	0.0E+00	3.0E-07	3.1E-07	6.6E-08	6.7E-07
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	0.86864	0.87077	0.00029	0.65371	3.21E-06	1.35E-03	1.80E-06	2.79E-05	1.38E-03	4.8E-07	1.4E-06	1.1E-06	9.9E-07	4.4E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.0E-08	7.1E-07
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	0.9236	0.92501	0.0003	0.6867	3.42E-06	1.43E-03	1.86E-06	2.93E-05	1.47E-03	5.1E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.4E-08	7.6E-07
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	0.98573	0.98625	0.00031	0.72352	3.65E-06	1.53E-03	1.92E-06	3.09E-05	1.56E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	7.9E-08	8.1E-07
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	1.05082	1.04997	0.00032	0.76146	3.89E-06	1.62E-03	1.98E-06	3.25E-05	1.66E-03	5.8E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.4E-08	8.6E-07
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	1.12364	1.12104	0.00033	0.80354	4.16E-06	1.73E-03	2.05E-06	3.43E-05	1.77E-03	6.1E-07	1.9E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.0E-08	9.2E-07
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	1.20525	1.20044	0.00035	0.8504	4.46E-06	1.86E-03	2.17E-06	3.63E-05	1.90E-03	6.6E-07	2.0E-06	1.6E-06	1.4E-06	6.1E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.6E-08	9.8E-07
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	1.28906	1.28115	0.00036	0.89838	4.77E-06	1.98E-03	2.23E-06	3.83E-05	2.03E-03	7.0E-07	2.1E-06	1.7E-06	1.4E-06	6.5E-07	0.0E+00	0.0E+00	4.7E-07	4.8E-07	1.0E-07	1.0E-06
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	1.38704	1.37543	0.00038	0.95466	5.13E-06	2.13E-03	2.36E-06	4.07E-05	2.18E-03	7.5E-07	2.3E-06	1.8E-06	1.6E-06	7.0E-07	0.0E+00	0.0E+00	5.0E-07	5.1E-07	1.1E-07	1.1E-06
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	0.83851	0.84225	0.0003	0.63672	3.10E-06	1.30E-03	1.86E-06	2.72E-05	1.33E-03	4.6E-07	1.4E-06	1.1E-06	9.5E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.1E-07	6.8E-08	6.9E-07
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	0.8929	0.89633	0.00032	0.66963	3.30E-06	1.39E-03	1.98E-06	2.86E-05	1.42E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	0.0E+00	0.0E+00	3.3E-07	3.3E-07	7.2E-08	7.3E-07
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	0.9513	0.95416	0.00033	0.70418	3.52E-06	1.48E-03	2.05E-06	3.00E-05	1.51E-03	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.9E-07	0.0E+00	0.0E+00	3.5E-07	3.6E-07	7.7E-08	7.8E-07
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	1.01728	1.01944	0.00035	0.74259	3.76E-06	1.58E-03	2.17E-06	3.17E-05	1.61E-03	5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.2E-08	8.3E-07
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	1.08791	1.08893	0.00036	0.78286	4.03E-06	1.68E-03	2.23E-06	3.34E-05	1.72E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.7E-08	8.9E-07
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	1.17028	1.16994	0.00038	0.82926	4.33E-06	1.81E-03	2.36E-06	3.54E-05	1.85E-03	6.4E-07	1.9E-06	1.5E-06	1.3E-06	5.9E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.4E-08	9.6E-07
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	1.25859	1.2562	0.00039	0.87819	4.66E-06	1.94E-03	2.42E-06	3.75E-05	1.99E-03	6.9E-07	2.1E-06	1.6E-06	1.4E-06	6.4E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	1.35209	1.34676	0.00041	0.92943	5.00E-06	2.08E-03	2.54E-06	3.97E-05	2.13E-03	7.4E-07	2.2E-06	1.8E-06	1.5E-06	6.8E-07	0.0E+00	0.0E+00	4.9E-07	5.0E-07	1.1E-07	1.1E-06
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	1.46282	1.45391	0.00043	0.98993	5.41E-06	2.25E-03	2.67E-06	4.22E-05	2.30E-03	8.0E-07	2.4E-06	1.9E-06	1.6E-06	7.4E-07	0.0E+00	0.0E+00	5.3E-07	5.4E-07	1.2E-07	1.2E-06
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	0.85943	0.8644	0.00032	0.65117	3.18E-06	1.34E-03	1.98E-06	2.78E-05	1.37E-03	4.7E-07	1.4E-06	1.1E-06	9.8E-07	4.4E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.9E-08	7.1E-07
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	0.91652	0.92133	0.00034	0.68542	3.39E-06	1.43E-03	2.11E-06	2.92E-05	1.46E-03	5.1E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.4E-07	7.4E-08	7.5E-07
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	0.97859	0.98304	0.00036	0.72175	3.62E-06	1.52E-03	2.23E-06	3.08E-05	1.56E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	7.9E-08	8.0E-07
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	1.05074	1.05482	0.00038	0.76326	3.89E-06	1.63E-03	2.36E-06	3.26E-05	1.67E-03	5.8E-07	1.7E-06	1.4E-06	1.2E-06	5.4E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.5E-08	8.6E-07
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	1.12826	1.13155	0.0004	0.80668	4.18E-06	1.75E-03	2.48E-06	3.44E-05	1.79E-03	6.2E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.1E-08	9.2E-07
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	1.21472	1.21684	0.00042	0.85408	4.49E-06	1.88E-03	2.60E-06	3.64E-05	1.93E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.8E-08	9.9E-07
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	1.3144	1.31499	0.00045	0.90777	4.86E-06	2.03E-03	2.79E-06	3.87E-05	2.08E-03	7.2E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	0.0E+00	0.0E+00	4.8E-07	4.9E-07	1.1E-07	1.1E-06
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	1.42264	1.4208	0.00047	0.96488	5.26E-06	2.20E-03	2.91E-06	4.12E-05	2.25E-03	7.8E-07	2.3E-06	1.9E-06	1.6E-06	7.2E-07	0.0E+00	0.0E+00	5.2E-07	5.3E-07	1.1E-07	1.2E-06
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	1.54376	1.53852	0.00049	1.02791	5.71E-06	2.38E-03	3.04E-06	4.39E-05	2.43E-03	8.4E-07	2.5E-06	2.0E-06	1.7E-06	7.8E-07	0.0E+00	0.0E+00	5.6E-07	5.7E-07	1.2E-07	1.3E-06
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	0.87889	0.88512	0.00035	0.66488	3.25E-06	1.37E-03	2.17E-06	2.84E-05	1.40E-03	4.9E-07	1.5E-06	1.2E-06	1.0E-06	4.5E-07	0.0E+00	0.0E+00	3.2E-07	3.3E-07	7.1E-08	7.2E-07
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	0.93882	0.94506	0.00037	0.70064	3.47E-06	1.46E-03	2.29E-06	2.99E-05	1.50E-03	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.8E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.6E-08	7.7E-07
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	1.00438	1.01047	0.00039	0.73872	3.72E-06	1.56E-03	2.42E-06	3.15E-05	1.60E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.1E-08	8.3E-07
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	1.08158	1.08764	0.00042	0.78274	4.00E-06	1.68E-03	2.60E-06	3.34E-05	1.72E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.7E-08	8.9E-07
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	1.1658	1.17147	0.00045	0.82928	4.31E-06	1.81E-03	2.79E-06	3.54E-05	1.85E-03	6.4E-07	1.9E-06	1.5E-06	1.3E-06	6.0E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.4E-08	9.6E-07
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	1.25844	1.26328	0.00047	0.879	4.66E-06	1.95E-03	2.91E-06	3.75E-05	2.00E-03	6.9E-07	2.1E-06	1.7E-06	1.4E-06	6.4E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	1.3671	1.37092	0.0005	0.93609	5.06E-06	2.12E-03	3.10E-06	3.99E-05	2.17E-03	7.5E-07	2.3E-06	1.8E-06	1.5E-06	7.0E-07	0.0E+00	0.0E+00	5.0E-07	5.1E-07	1.1E-07	1.1E-06
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	1.48792	1.48995	0.00054	0.99783	5.51E-06	2.30E-03	3.35E-06	4.26E-05	2.36E-03	8.2E-07	2.5E-06	1.9E-06	1.7E-06	7.6E-07	0.0E+00	0.0E+00	5.4E-07	5.6E-07	1.2E-07	1.2E-06
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	1.62371	1.62295	0.00057	1.06557	6.01E-06	2.51E-03	3.53E-06	4.55E-05	2.57E-03	8.9E-07	2.7E-06	2.1E-06	1.8E-06	8.2E-07	0.0E+00	0.0E+00	5.9E-07	6.0E-07	1.3E-07	1.3E-06
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	0.89707	0.9046	0.00037	0.67803	3.32E-06	1.40E-03	2.29E-06	2.89E-05	1.43E-03	5.0E-07	1.5E-06	1.2E-06	1.0E-06	4.6E-07	0.0E+00	0.0E+00	3.3E-07	3.4E-07	7.3E-08	7.4E-07
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	0.95948	0.96719	0.0004	0.71514	3.55E-06	1.50E-03	2.48E-06	3.05E-05	1.53E-03	5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	0.0E+00	0.0E+00	3.5E-07	3.6E-07	7.8E-08	7.9E-07
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	1.02856	1.03635	0.00043	0.75507	3.81E-06	1.60E-03	2.67E-06	3.22E-05	1.64E-03	5.7E-07	1.7E-06	1.4E-06	1.2E-06	5.3E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.3E-08	8.5E-07
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	1.11039	1.1185	0.00046	0.80145	4.11E-06	1.73E-03	2.85E-06	3.42E-05	1.77E-03	6.1E-07	1.9E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.0E-08	9.1E-07
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	1.20128	1.20947	0.00049	0.85126	4.45E-06	1.87E-03	3.04E-06	3.63E-05	1.91E-03	6.6E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.7E-08	9.9E-07
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	1.30011	1.30787	0.00053	0.90342	4.81E-06	2.02E-03	3.29E-06	3.86E-05	2.07E-03	7.2E-07	2.2E-06	1.7E-06	1.5E-06	6.6E-07	0.0E+00	0.0E+00	4.8E-07	4.9E-07	1.0E-07	1.1E-06
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	1.41514	1.42231	0.00057	0.96248	5.24E-06	2.20E-03	3.53E-06	4.11E-05	2.25E-03	7.8E-07	2.4E-06	1.9E-06	1.6E-06	7.2E-07	0.0E+00	0.0E+00	5.2E-07	5.3E-07	1.1E-07	1.2E-06
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	1.54589	1.55189	0.00061	1.02748	5.72E-06	2.40E-03	3.78E-06	4.38E-05	2.45E-03	8.5E-07	2.6E-06	2.0E-06	1.8E-06	7.9E-07	0.0E+00	0.0E+00	5.6E-07	5.8E-07	1.2E-07	1.3E-06
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	1.69619	1.70024	0.00065	1.09992	6.28E-06	2.63E-03	4.03E-06	4.69E-05	2.69E-03	9.3E-07	2.8E-06	2.2E-06	1.9E-06	8.6E-07	0.0E+00	0.0E+00	6.2E-07	6.3E-07	1.4E-07	1.4E-06
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	0.91371	0.9226	0.00039	0.69051	3.38E-06	1.43E-03	2.42E-06	2.95E-05	1.46E-03	5.1E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.4E-07	7.4E-08	7.5E-07
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	0.98042	0.98983	0.00042	0.73035	3.63E-06	1.53E-03	2.60E-06	3.12E-05	1.57E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	7.9E-08	8.1E-07
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	1.05484	1.06475	0.00046	0.77348	3.90E-06	1.65E-03	2.85E-06	3.30E-05	1.69E-03	5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	0.0E+00	0.0E+00	3.9E-07	4.0E-07	8.5E-08	8.7E-07
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	1.13873	1.14913	0.00049	0.8206	4.21E-06	1.78E-03	3.04E-06	3.50E-05	1.82E-03	6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	0.0E+00	0.0E+00	4.2E-07	4.3E-07	9.2E-08	9.4E-07
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	1.23335	1.24413	0.00054	0.87194	4.56E-06	1.92E-03	3.35E-06	3.72E-05	1.97E-03	6.8E-07	2.1E-06	1.6E-06	1.4E-06	6.3E-07	0.0E+00	0.0E+00	4.5E-07	4.6E-07	1.0E-07	1.0E-06
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	1.3398	1.35073	0.00058	0.9276	4.96E-06	2.09E-03	3.60E-06	3.96E-05	2.14E-03	7.4E-07	2.2E-06	1.8E-06	1.5E-06	6.9E-07	0.0E+00	0.0E+00	4.9E-07	5.0E-07	1.1E-07	1.1E-06
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	1.46311	1.4741	0.00063	0.98992	5.41E-06	2.28E-03	3.91E-06	4.22E-05	2.33E-03	8.1E-07	2.4E-06	1.9E-06	1.7E-06	7.5E-07	0.0E+00	0.0E+00	5.4E-07	5.5E-07	1.2E-07	1.2E-06
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	1.60433	1.61494	0.00069	1.05856	5.94E-06	2.50E-03	4.28E-06	4.52E-05	2.55E-03	8.8E-07	2.7E-06	2.1E-06	1.8E-06	8.2E-07	0.0E+00	0.0E+00	5.9E-07	6.0E-07	1.3E-07	1.3E-06
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	1.76708	1.77662	0.00075	1.1346	6.54E-06	2.75E-03	4.65E-06	4.84E-05	2.81E-03	9.7E-07	2.9E-06	2.3E-06	2.0E-06	9.0E-07	0.0E+00	0.0E+00	6.4E-07	6.6E-07	1.4E-07	1.4E-06
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	0.94013	0.92383	0.00031	0.74814	3.48E-06	1.43E-03	1.92E-06	3.19E-05	1.47E-03	5.1E-07	1.5E-06	1.2E-06	1.0E-06	4.7E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.4E-08	7.6E-07
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	0.97626	0.95814	0.00034	0.7817	3.61E-06	1.48E-03	2.11E-06	3.34E-05	1.52E-03	5.3E-07	1.6E-06	1.3E-06	1.1E-06	4.9E-07	0.0E+00	0.0E+00	3.5E-07	3.6E-07	7.7E-08	7.9E-07
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	1.01228	0.99218	0.00038	0.81656	3.75E-06	1.53E-03	2.36E-06	3.48E-05	1.58E-03	5.5E-07	1.6E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	8.0E-08	8.1E-07
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	1.0483	1.02601	0.0004	0.85291	3.88E-06	1.59E-03	2.48E-06	3.64E-05	1.63E-03	5.6E-07	1.7E-06	1.3E-06	1.2E-06	5.2E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.3E-08	8.4E-07
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	1.08288	1.05819	0.00042	0.88994	4.01E-06	1.64E-03	2.60E-06	3.80E-05	1.68E-03	5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	0.0E+00	0.0E+00	3.9E-07	4.0E-07	8.5E-08	8.7E-07
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	1.11868	1.09136	0.00043	0.92983	4.14E-06	1.69E-03	2.67E-06	3.97E-05	1.73E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.6E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.8E-08	9.0E-07
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	0.99972	0.98234	0.00032	0.78152	3.70E-06	1.52E-03	1.98E-06	3.33E-05	1.56E-03	5.4E-07	1.6E-06	1.3E-06	1.1E-06	5.0E-07	0.0E+00	0.0E+00	3.6E-07	3.7E-07	7.9E-08	8.0E-07
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	1

PHASE 2 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	1.55E-03	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	1.15939	1.13575	0.00042	0.8998	4.29E-06	1.76E-03	2.60E-06	3.84E-05	1.80E-03
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	1.20877	1.18217	0.00046	0.94606	4.47E-06	1.83E-03	2.85E-06	4.04E-05	1.88E-03
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	1.25637	1.22651	0.0005	0.99366	4.65E-06	1.90E-03	3.10E-06	4.24E-05	1.95E-03
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	1.30541	1.27196	0.00052	1.04517	4.83E-06	1.97E-03	3.22E-06	4.46E-05	2.02E-03
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	1.13497	1.11567	0.00033	0.8528	4.20E-06	1.73E-03	2.05E-06	3.64E-05	1.77E-03
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	1.18985	1.16754	0.00038	0.89755	4.40E-06	1.81E-03	2.36E-06	3.83E-05	1.85E-03
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	1.24607	1.22053	0.00043	0.94557	4.61E-06	1.89E-03	2.67E-06	4.03E-05	1.94E-03
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	1.304	1.27494	0.00049	0.99741	4.83E-06	1.97E-03	3.04E-06	4.26E-05	2.02E-03
409	UCART6	439816.6	3761570.65	439816.61, 3761570.65	1.36121	1.32829	0.00054	1.05192	5.04E-06	2.05E-03	3.35E-06	4.49E-05	2.11E-03
410	UCART6	439866.6	3761570.65	439866.61, 3761570.65	1.4175	1.38031	0.00058	1.10942	5.25E-06	2.14E-03	3.60E-06	4.73E-05	2.19E-03
411	UCART7	440451.1	3762893.83	440451.14, 3762893.83	2.67191	2.89373	0.00146	14.65552	9.89E-06	4.48E-03	9.05E-06	6.25E-04	5.12E-03
412	UCART7	440501.1	3762893.83	440501.14, 3762893.83	2.64169	2.89724	0.0018	10.27984	9.78E-06	4.48E-03	1.12E-05	4.39E-04	4.94E-03
413	UCART7	440551.1	3762893.83	440551.14, 3762893.83	2.63015	2.89805	0.00213	7.89501	9.73E-06	4.48E-03	1.32E-05	3.37E-04	4.84E-03
414	UCART7	440601.1	3762893.83	440601.14, 3762893.83	2.59246	2.82528	0.00239	6.39368	9.59E-06	4.37E-03	1.48E-05	2.73E-04	4.67E-03
415	UCART7	440651.1	3762893.83	440651.14, 3762893.83	2.56329	2.79862	0.00257	5.36676	9.49E-06	4.33E-03	1.59E-05	2.29E-04	4.58E-03
416	UCART7	440701.1	3762893.83	440701.14, 3762893.83	2.54932	2.77504	0.00265	4.62116	9.43E-06	4.29E-03	1.64E-05	1.97E-04	4.52E-03
417	UCART7	440751.1	3762893.83	440751.14, 3762893.83	2.55171	2.76694	0.00267	4.06496	9.44E-06	4.28E-03	1.66E-05	1.73E-04	4.48E-03
418	UCART7	440801.1	3762893.83	440801.14, 3762893.83	2.53874	2.72559	0.00264	3.6235	9.39E-06	4.22E-03	1.64E-05	1.55E-04	4.40E-03
419	UCART7	440851.1	3762893.83	440851.14, 3762893.83	2.5352	2.68265	0.00259	3.27627	9.38E-06	4.15E-03	1.61E-05	1.40E-04	4.31E-03
420	UCART7	440451.1	3762943.83	440451.14, 3762943.83	2.23033	2.37988	0.00105	10.22395	8.25E-06	3.68E-03	6.51E-06	4.36E-04	4.13E-03
421	UCART7	440501.1	3762943.83	440501.14, 3762943.83	2.1803	2.34107	0.00129	8.15619	8.07E-06	3.62E-03	8.00E-06	3.48E-04	3.99E-03
422	UCART7	440551.1	3762943.83	440551.14, 3762943.83	2.18141	2.36249	0.00155	6.67611	8.07E-06	3.65E-03	9.61E-06	2.85E-04	3.96E-03
423	UCART7	440601.1	3762943.83	440601.14, 3762943.83	2.14829	2.30225	0.00177	5.59472	7.95E-06	3.56E-03	1.10E-05	2.39E-04	3.82E-03
424	UCART7	440651.1	3762943.83	440651.14, 3762943.83	2.145	2.32338	0.00195	4.80429	7.94E-06	3.59E-03	1.21E-05	2.05E-04	3.82E-03
425	UCART7	440701.1	3762943.83	440701.14, 3762943.83	2.14593	2.31996	0.00207	4.20043	7.94E-06	3.59E-03	1.28E-05	1.79E-04	3.79E-03
426	UCART7	440751.1	3762943.83	440751.14, 3762943.83	2.16784	2.33767	0.00213	3.73688	8.02E-06	3.62E-03	1.32E-05	1.59E-04	3.80E-03
427	UCART7	440801.1	3762943.83	440801.14, 3762943.83	2.14433	2.30202	0.00213	3.34932	7.93E-06	3.56E-03	1.32E-05	1.43E-04	3.72E-03
428	UCART7	440851.1	3762943.83	440851.14, 3762943.83	2.12324	2.27351	0.0021	3.03108	7.86E-06	3.52E-03	1.30E-05	1.29E-04	3.67E-03
429	UCART8	441116.7	3763135.31	441116.67, 3763135.31	1.24246	1.30675	0.00102	1.55316	4.60E-06	2.02E-03	6.32E-06	6.63E-05	2.10E-03
430	UCART8	441166.7	3763135.31	441166.67, 3763135.31	1.24294	1.30349	0.00101	1.48478	4.60E-06	2.02E-03	6.26E-06	6.34E-05	2.09E-03
431	UCART8	441116.7	3763185.31	441116.67, 3763185.31	1.10606	1.1626	0.0009	1.43264	4.09E-06	1.80E-03	5.58E-06	6.11E-05	1.87E-03
432	UCART8	441166.7	3763185.31	441166.67, 3763185.31	1.11086	1.16536	0.00088	1.37624	4.11E-06	1.80E-03	5.46E-06	5.87E-05	1.87E-03
433	UCART8	441116.7	3763235.31	441116.67, 3763235.31	0.99095	1.03988	0.00079	1.31771	3.67E-06	1.61E-03	4.90E-06	5.62E-05	1.67E-03
434	UCART8	441166.7	3763235.31	441166.67, 3763235.31	0.99677	1.0448	0.00078	1.2719	3.69E-06	1.62E-03	4.84E-06	5.43E-05	1.68E-03
435	UCART8	441116.7	3763285.31	441116.67, 3763285.31	0.88585	0.92818	0.0007	1.20478	3.28E-06	1.44E-03	4.34E-06	5.14E-05	1.49E-03
436	UCART8	441166.7	3763285.31	441166.67, 3763285.31	0.89597	0.93791	0.00069	1.17063	3.32E-06	1.45E-03	4.28E-06	5.00E-05	1.51E-03
437	UCART8	441116.7	3763335.31	441116.67, 3763335.31	0.79734	0.83389	0.00061	1.11052	2.95E-06	1.29E-03	3.78E-06	4.74E-05	1.34E-03
438	UCART8	441166.7	3763335.31	441166.67, 3763335.31	0.80618	0.84272	0.00062	1.07409	2.98E-06	1.30E-03	3.84E-06	4.58E-05	1.36E-03
439	UCART8	441116.7	3763385.31	441116.67, 3763385.31	0.72193	0.75348	0.00054	1.02043	2.67E-06	1.17E-03	3.35E-06	4.35E-05	1.22E-03
440	UCART8	441166.7	3763385.31	441166.67, 3763385.31	0.72738	0.75923	0.00055	0.99964	2.69E-06	1.17E-03	3.41E-06	4.27E-05	1.22E-03
441	UCART8	441116.7	3763435.31	441116.67, 3763435.31	0.65529	0.68261	0.00048	0.92655	2.42E-06	1.06E-03	2.98E-06	3.95E-05	1.10E-03
442	UCART8	441166.7	3763435.31	441166.67, 3763435.31	0.66177	0.68948	0.00049	0.91293	2.45E-06	1.07E-03	3.04E-06	3.90E-05	1.11E-03
443	UCART9	440433.4	3762815.13	440433.43, 3762815.13	3.99923	4.36305	0.00244	21.14786	1.48E-05	6.75E-03	1.51E-05	9.02E-04	7.68E-03
444	UCART9	440483.4	3762815.13	440483.43, 3762815.13	3.92306	4.28138	0.00303	13.38315	1.45E-05	6.62E-03	1.88E-05	5.71E-04	7.23E-03
445	UCART9	440533.4	3762815.13	440533.43, 3762815.13	3.85868	4.23791	0.00352	9.78281	1.43E-05	6.56E-03	2.18E-05	4.17E-04	7.01E-03
446	UCART9	440583.4	3762815.13	440583.43, 3762815.13	3.73441	4.0893	0.00384	7.69899	1.38E-05	6.33E-03	2.38E-05	3.29E-04	6.69E-03
447	UCART9	440633.4	3762815.13	440633.43, 3762815.13	3.65839	4.00807	0.004	6.33627	1.35E-05	6.20E-03	2.48E-05	2.70E-04	6.51E-03
448	UCART9	440683.4	3762815.13	440683.43, 3762815.13	3.57843	3.89061	0.00401	5.38088	1.32E-05	6.02E-03	2.49E-05	2.30E-04	6.29E-03
449	UCART9	440733.4	3762815.13	440733.43, 3762815.13	3.47776	3.74687	0.00394	4.66926	1.29E-05	5.80E-03	2.44E-05	1.99E-04	6.03E-03
450	UCART9	440783.4	3762815.13	440783.43, 3762815.13	3.3855	3.61479	0.00384	4.12888	1.25E-05	5.59E-03	2.38E-05	1.76E-04	5.80E-03
451	UCART9	440833.4	3762815.13	440833.43, 3762815.13	3.26931	3.44951	0.0037	3.69237	1.21E-05	5.34E-03	2.29E-05	1.58E-04	5.53E-03
452	UCART9	440883.4	3762815.13	440883.43, 3762815.13	3.14722	3.28856	0.00356	3.34335	1.16E-05	5.09E-03	2.21E-05	1.43E-04	5.26E-03
453	UCART9	440933.4	3762815.13	440933.43, 3762815.13	3.00748	3.11666	0.00342	3.06322	1.11E-05	4.82E-03	2.12E-05	1.31E-04	4.98E-03
454	UCART9	440983.4	3762815.13	440983.43, 3762815.13	2.86025	2.94498	0.00327	2.82439	1.06E-05	4.56E-03	2.03E-05	1.21E-04	4.71E-03
455	UCART9	440433.4	3762865.13	440433.43, 3762865.13	3.02821	3.37038	0.00166	20.04456	1.12E-05	5.21E-03	1.03E-05	8.55E-04	6.09E-03
456	UCART9	440483.4	3762865.13	440483.43, 3762865.13	3.11748	3.30508	0.00207	12.61818	1.15E-05	5.11E-03	1.28E-05	5.38E-04	5.68E-03
457	UCART9	440533.4	3762865.13	440533.43, 3762865.13	3.08521	3.28627	0.00246	9.22014	1.14E-05	5.08E-03	1.53E-05	3.93E-04	5.50E-03
458	UCART9	440583.4	3762865.13	440583.43, 3762865.13	3.02465	3.22931	0.00277	7.2613	1.12E-05	5.00E-03	1.72E-05	3.10E-04	5.33E-03
459	UCART9	440633.4	3762865.13	440633.43, 3762865.13	2.96251	3.1789	0.00297	5.98358	1.10E-05	4.92E-03	1.84E-05	2.55E-04	5.20E-03
460	UCART9	440683.4	3762865.13	440683.43, 3762865.13	2.92994	3.13697	0.00306	5.08715	1.08E-05	4.85E-03	1.90E-05	2.17E-04	5.10E-03
461	UCART9	440733.4	3762865.13	440733.43, 3762865.13	2.88016	3.08439	0.00307	4.42179	1.07E-05	4.77E-03	1.90E-05	1.89E-04	4.99E-03
462	UCART9	440783.4	3762865.13	440783.43, 3762865.13	2.84275	3.03211	0.00302	3.91429	1.05E-05	4.69E-03	1.87E-05	1.67E-04	4.89E-03
463	UCART9	440833.4	3762865.13	440833.43, 3762865.13	2.795	2.96351	0.00296	3.51644	1.03E-05	4.58E-03	1.84E-05	1.50E-04	4.76E-03
464	UCART9	440883.4	3762865.13	440883.43, 3762865.13	2.72511	2.86985	0.00287	3.19242	1.01E-05	4.44E-03	1.78E-05	1.36E-04	4.60E-03
465	UCART9	440933.4	3762865.13	440933.43, 3762865.13	2.63772	2.75731	0.00278	2.92487	9.76E-06	4.27E-03	1.72E-05	1.25E-04	4.42E-03
466	UCART9	440983.4	3762865.13	440983.43, 3762865.13	2.54066	2.63555	0.00269	2.69508	9.40E-06	4.08E-03	1.67E-05	1.15E-04	4.22E-03
467	UCART10	441118.3	3762686.02	441118.27, 3762686.02	2.99822	2.97821	0.00416	2.59584	1.11E-05	4.61E-03	2.58E-05	1.11E-04	4.75E-03
468	UCART10	441168.3	3762686.02	441168.27, 3762686.02	2.77215	2.74886	0.0038	2.45175	1.03E-05	4.25E-03	2.36E-05	1.05E-04	4.39E-03
469	UCART10	441118.3	3762736.02	441118.27, 3762736.02	2.80274	2.80585	0.00362	2.48553	1.04E-05	4.34E-03	2.24E-05	1.06E-04	4.48E-03
470	UCART10	441168.3	3762736.02	441168.27, 3762736.02	2.61224	2.60793	0.00336	2.34293	9.67E-06	4.03E-03	2.08E-05	1.00E-04	4.16E-03
471	UCART10	441118.3	3762786.02	441118.27, 3762786.02	2.59502	2.61835	0.00312	2.38932	9.60E-06	4.05E-03	1.93E-05	1.02E-04	4.18E-03
472	UCART10	441168.3	3762786.02	441168.27, 3762786.02	2.43803	2.45092	0.00293	2.24518	9.02E-06	3.79E-03	1.82E-05	9.58E-05	3.91E-03
473	UCART10	441118.3	3762836.02	441118.27, 3762836.02	2.38011	2.4202	0.00266	2.28882	8.81E-06	3.74E-03	1.65E-05	9.77E-05	3.87E-03
474	UCART10	441168.3	3762836.02	441168.27, 3762836.02	2.25573	2.28357	0.00253	2.14925	8.35E-06	3.53E-03	1.57E-05	9.17E-05	3.65E-03
475	UCART11	440411.7	3762093.41	440411.67, 3762093.41	8.19287	7.19137	0.0058	46.66589	3.03E-05	1.11E-02	3.60E-05	1.99E-03	1.32E-02
476	UCART11	440461.7	3762093.41	440461.67, 3762093.41	7.35484	6.48211	0.00608	42.14199	2.72E-05	1.00E-02	3.77E-05	1.80E-03	1.19E-02
477	UCART11	440511.7	3762093.41	440511.67, 3762093.41	6.59397	5.84624	0.00629	42.26278	2.44E-05	9.04E-03	3.90E-05	1.80E-03	1.09E-02
478	UCART11	440561.7	3762093.41	440561.67, 3762093.41	5.92393	5.28752	0.00638	42.47285	2.19E-05	8.18E-03	3.96E-05	1.81E-03	1.01E-02
479	UCART11	440611.7	3762093.41	440611.67, 3762093.41	5.34584	4.80346	0.00634	42.63369	1.98E-05	7.43E-03	3.93E-05	1.82E-03	9.31E-03
480	UCART11	440411.7	3762143.41	440411.67, 3762143.41	10.73948	9.21251	0.00944	38.57327	3.97E-05	1.43E-02	5.85E-05	1.65E-03	1.60E-02

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
401	UCART6	6.2E-07	1.9E-06	1.5E-06	1.3E-06	5.8E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.1E-08	9.3E-07
402	UCART6	6.5E-07	2.0E-06	1.5E-06	1.3E-06	6.0E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.5E-08	9.7E-07
403	UCART6	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.3E-07	0.0E+00	0.0E+00	4.5E-07	4.6E-07	9.9E-08	1.0E-06
404	UCART6	7.0E-07	2.1E-06	1.7E-06	1.4E-06	6.5E-07	0.0E+00	0.0E+00	4.6E-07	4.8E-07	1.0E-07	1.0E-06
405	UCART6	6.1E-07	1.8E-06	1.5E-06	1.3E-06	5.7E-07	0.0E+00	0.0E+00	4.1E-07	4.2E-07	9.0E-08	9.1E-07
406	UCART6	6.4E-07	1.9E-06	1.5E-06	1.3E-06	5.9E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.4E-08	9.6E-07
407	UCART6	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.4E-07	4.6E-07	9.8E-08	1.0E-06
408	UCART6	7.0E-07	2.1E-06	1.7E-06	1.4E-06	6.5E-07	0.0E+00	0.0E+00	4.6E-07	4.8E-07	1.0E-07	1.0E-06
409	UCART6	7.3E-07	2.2E-06	1.7E-06	1.5E-06	6.8E-07	0.0E+00	0.0E+00	4.8E-07	5.0E-07	1.1E-07	1.1E-06
410	UCART6	7.6E-07	2.3E-06	1.8E-06	1.6E-06	7.0E-07	0.0E+00	0.0E+00	5.0E-07	5.2E-07	1.1E-07	1.1E-06
411	UCART7	1.8E-06	5.4E-06	4.2E-06	3.7E-06	1.6E-06	0.0E+00	0.0E+00	1.2E-06	1.2E-06	2.6E-07	2.6E-06
412	UCART7	1.7E-06	5.2E-06	4.1E-06	3.5E-06	1.6E-06	0.0E+00	0.0E+00	1.1E-06	1.2E-06	2.5E-07	2.5E-06
413	UCART7	1.7E-06	5.1E-06	4.0E-06	3.5E-06	1.6E-06	0.0E+00	0.0E+00	1.1E-06	1.1E-06	2.5E-07	2.5E-06
414	UCART7	1.6E-06	4.9E-06	3.9E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.1E-06	1.1E-06	2.4E-07	2.4E-06
415	UCART7	1.6E-06	4.8E-06	3.8E-06	3.3E-06	1.5E-06	0.0E+00	0.0E+00	1.1E-06	1.1E-06	2.3E-07	2.4E-06
416	UCART7	1.6E-06	4.7E-06	3.7E-06	3.2E-06	1.5E-06	0.0E+00	0.0E+00	1.0E-06	1.1E-06	2.3E-07	2.3E-06
417	UCART7	1.6E-06	4.7E-06	3.7E-06	3.2E-06	1.4E-06	0.0E+00	0.0E+00	1.0E-06	1.1E-06	2.3E-07	2.3E-06
418	UCART7	1.5E-06	4.6E-06	3.6E-06	3.1E-06	1.4E-06	0.0E+00	0.0E+00	1.0E-06	1.0E-06	2.2E-07	2.3E-06
419	UCART7	1.5E-06	4.5E-06	3.6E-06	3.1E-06	1.4E-06	0.0E+00	0.0E+00	9.9E-07	1.0E-06	2.2E-07	2.2E-06
420	UCART7	1.4E-06	4.3E-06	3.4E-06	3.0E-06	1.3E-06	0.0E+00	0.0E+00	9.5E-07	9.7E-07	2.1E-07	2.1E-06
421	UCART7	1.4E-06	4.2E-06	3.3E-06	2.8E-06	1.3E-06	0.0E+00	0.0E+00	9.2E-07	9.4E-07	2.0E-07	2.1E-06
422	UCART7	1.4E-06	4.1E-06	3.3E-06	2.8E-06	1.3E-06	0.0E+00	0.0E+00	9.1E-07	9.3E-07	2.0E-07	2.0E-06
423	UCART7	1.3E-06	4.0E-06	3.2E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	8.8E-07	9.0E-07	1.9E-07	2.0E-06
424	UCART7	1.3E-06	4.0E-06	3.2E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	8.8E-07	9.0E-07	1.9E-07	2.0E-06
425	UCART7	1.3E-06	4.0E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	8.7E-07	8.9E-07	1.9E-07	2.0E-06
426	UCART7	1.3E-06	4.0E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	8.7E-07	9.0E-07	1.9E-07	2.0E-06
427	UCART7	1.3E-06	3.9E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	8.6E-07	8.8E-07	1.9E-07	1.9E-06
428	UCART7	1.3E-06	3.8E-06	3.0E-06	2.6E-06	1.2E-06	0.0E+00	0.0E+00	8.4E-07	8.6E-07	1.9E-07	1.9E-06
429	UCART8	7.3E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	0.0E+00	0.0E+00	4.8E-07	4.9E-07	1.1E-07	1.1E-06
430	UCART8	7.2E-07	2.2E-06	1.7E-06	1.5E-06	6.7E-07	0.0E+00	0.0E+00	4.8E-07	4.9E-07	1.1E-07	1.1E-06
431	UCART8	6.5E-07	2.0E-06	1.5E-06	1.3E-06	6.0E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.5E-08	9.6E-07
432	UCART8	6.5E-07	2.0E-06	1.5E-06	1.3E-06	6.0E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.5E-08	9.7E-07
433	UCART8	5.8E-07	1.7E-06	1.4E-06	1.2E-06	5.4E-07	0.0E+00	0.0E+00	3.8E-07	3.9E-07	8.5E-08	8.6E-07
434	UCART8	5.8E-07	1.8E-06	1.4E-06	1.2E-06	5.4E-07	0.0E+00	0.0E+00	3.9E-07	4.0E-07	8.5E-08	8.7E-07
435	UCART8	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.8E-07	0.0E+00	0.0E+00	3.4E-07	3.5E-07	7.6E-08	7.7E-07
436	UCART8	5.2E-07	1.6E-06	1.2E-06	1.1E-06	4.8E-07	0.0E+00	0.0E+00	3.5E-07	3.6E-07	7.6E-08	7.8E-07
437	UCART8	4.7E-07	1.4E-06	1.1E-06	9.6E-07	4.3E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.8E-08	6.9E-07
438	UCART8	4.7E-07	1.4E-06	1.1E-06	9.7E-07	4.4E-07	0.0E+00	0.0E+00	3.1E-07	3.2E-07	6.9E-08	7.0E-07
439	UCART8	4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.2E-08	6.3E-07
440	UCART8	4.2E-07	1.3E-06	1.0E-06	8.7E-07	3.9E-07	0.0E+00	0.0E+00	2.8E-07	2.9E-07	6.2E-08	6.3E-07
441	UCART8	3.8E-07	1.2E-06	9.1E-07	7.9E-07	3.5E-07	0.0E+00	0.0E+00	2.5E-07	2.6E-07	5.6E-08	5.7E-07
442	UCART8	3.8E-07	1.2E-06	9.2E-07	7.9E-07	3.6E-07	0.0E+00	0.0E+00	2.6E-07	2.6E-07	5.6E-08	5.7E-07
443	UCART9	2.7E-06	8.0E-06	6.3E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	1.8E-06	1.8E-06	3.9E-07	4.0E-06
444	UCART9	2.5E-06	7.6E-06	6.0E-06	5.2E-06	2.3E-06	0.0E+00	0.0E+00	1.7E-06	1.7E-06	3.7E-07	3.7E-06
445	UCART9	2.4E-06	7.3E-06	5.8E-06	5.0E-06	2.3E-06	0.0E+00	0.0E+00	1.6E-06	1.7E-06	3.6E-07	3.6E-06
446	UCART9	2.3E-06	7.0E-06	5.5E-06	4.8E-06	2.1E-06	0.0E+00	0.0E+00	1.5E-06	1.6E-06	3.4E-07	3.5E-06
447	UCART9	2.3E-06	6.8E-06	5.4E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.5E-06	1.5E-06	3.3E-07	3.4E-06
448	UCART9	2.2E-06	6.6E-06	5.2E-06	4.5E-06	2.0E-06	0.0E+00	0.0E+00	1.4E-06	1.5E-06	3.2E-07	3.2E-06
449	UCART9	2.1E-06	6.3E-06	5.0E-06	4.3E-06	1.9E-06	0.0E+00	0.0E+00	1.4E-06	1.4E-06	3.1E-07	3.1E-06
450	UCART9	2.0E-06	6.1E-06	4.8E-06	4.1E-06	1.9E-06	0.0E+00	0.0E+00	1.3E-06	1.4E-06	2.9E-07	3.0E-06
451	UCART9	1.9E-06	5.8E-06	4.6E-06	3.9E-06	1.8E-06	0.0E+00	0.0E+00	1.3E-06	1.3E-06	2.8E-07	2.9E-06
452	UCART9	1.8E-06	5.5E-06	4.3E-06	3.8E-06	1.7E-06	0.0E+00	0.0E+00	1.2E-06	1.2E-06	2.7E-07	2.7E-06
453	UCART9	1.7E-06	5.2E-06	4.1E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	1.1E-06	1.2E-06	2.5E-07	2.6E-06
454	UCART9	1.6E-06	4.9E-06	3.9E-06	3.4E-06	1.5E-06	0.0E+00	0.0E+00	1.1E-06	1.1E-06	2.4E-07	2.4E-06
455	UCART9	2.1E-06	6.4E-06	5.0E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.4E-06	1.4E-06	3.1E-07	3.1E-06
456	UCART9	2.0E-06	5.9E-06	4.7E-06	4.1E-06	1.8E-06	0.0E+00	0.0E+00	1.3E-06	1.3E-06	2.9E-07	2.9E-06
457	UCART9	1.9E-06	5.8E-06	4.5E-06	3.9E-06	1.8E-06	0.0E+00	0.0E+00	1.3E-06	1.3E-06	2.8E-07	2.8E-06
458	UCART9	1.8E-06	5.6E-06	4.4E-06	3.8E-06	1.7E-06	0.0E+00	0.0E+00	1.2E-06	1.3E-06	2.7E-07	2.8E-06
459	UCART9

PHASE 2 OPERATIONAL

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	1.55E-03	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
481	UCART11	440461.7	3762143.41	440461.67, 3762143.41	9.40397	8.12108	0.0099	22.55939	3.48E-05	1.26E-02	6.14E-05	9.63E-04	1.36E-02	4.7E-06	1.4E-05	1.1E-05	9.7E-06	4.4E-06	0.0E+00	0.0E+00	3.1E-06	3.2E-06	6.9E-07	7.0E-06
482	UCART11	440511.7	3762143.41	440511.67, 3762143.41	8.27022	7.20617	0.01007	19.12953	3.06E-05	1.11E-02	6.24E-05	8.16E-04	1.21E-02	4.2E-06	1.3E-05	1.0E-05	8.6E-06	3.9E-06	0.0E+00	0.0E+00	2.8E-06	2.8E-06	6.1E-07	6.2E-06
483	UCART11	440561.7	3762143.41	440561.67, 3762143.41	7.30284	6.42353	0.00992	18.04248	2.70E-05	9.94E-03	6.15E-05	7.70E-04	1.08E-02	3.7E-06	1.1E-05	8.9E-06	7.7E-06	3.5E-06	0.0E+00	0.0E+00	2.5E-06	2.5E-06	5.5E-07	5.6E-06
484	UCART11	440611.7	3762143.41	440611.67, 3762143.41	6.50658	5.77477	0.00953	17.58151	2.41E-05	8.93E-03	5.91E-05	7.50E-04	9.77E-03	3.4E-06	1.0E-05	8.1E-06	7.0E-06	3.1E-06	0.0E+00	0.0E+00	2.2E-06	2.3E-06	4.9E-07	5.0E-06
485	UCART12	440406.6	3762008.86	440406.61, 3762008.86	5.6318	5.07645	0.00307	12.48933	2.08E-05	7.85E-03	1.90E-05	5.33E-04	8.43E-03	2.9E-06	8.8E-06	7.0E-06	6.0E-06	2.7E-06	0.0E+00	0.0E+00	1.9E-06	2.0E-06	4.3E-07	4.3E-06
486	UCART12	440456.6	3762008.86	440456.61, 3762008.86	5.22517	4.71715	0.00318	14.33852	1.93E-05	7.30E-03	1.97E-05	6.12E-04	7.95E-03	2.8E-06	8.3E-06	6.6E-06	5.7E-06	2.6E-06	0.0E+00	0.0E+00	1.8E-06	1.9E-06	4.0E-07	4.1E-06
487	UCART12	440506.6	3762008.86	440506.61, 3762008.86	4.80568	4.35208	0.00328	15.27705	1.78E-05	6.73E-03	2.03E-05	6.52E-04	7.42E-03	2.6E-06	7.8E-06	6.1E-06	5.3E-06	2.4E-06	0.0E+00	0.0E+00	1.7E-06	1.7E-06	3.8E-07	3.8E-06
488	UCART12	440556.6	3762008.86	440556.61, 3762008.86	4.40497	4.00531	0.00337	15.76365	1.63E-05	6.20E-03	2.09E-05	6.73E-04	6.91E-03	2.4E-06	7.2E-06	5.7E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.6E-06	1.6E-06	3.5E-07	3.6E-06
489	UCART12	440606.6	3762008.86	440606.61, 3762008.86	4.04453	3.69375	0.00343	16.04475	1.50E-05	5.71E-03	2.13E-05	6.85E-04	6.43E-03	2.2E-06	6.7E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.5E-06	1.5E-06	3.3E-07	3.3E-06
490	UCART12	440656.6	3762008.86	440656.61, 3762008.86	3.72604	3.41776	0.00346	16.18522	1.38E-05	5.29E-03	2.15E-05	6.91E-04	6.01E-03	2.1E-06	6.3E-06	5.0E-06	4.3E-06	1.9E-06	0.0E+00	0.0E+00	1.4E-06	1.4E-06	3.0E-07	3.1E-06
491	UCART12	440706.6	3762008.86	440706.61, 3762008.86	3.44719	3.17512	0.00346	16.26077	1.28E-05	4.91E-03	2.15E-05	6.94E-04	5.64E-03	2.0E-06	5.9E-06	4.7E-06	4.0E-06	1.8E-06	0.0E+00	0.0E+00	1.3E-06	1.3E-06	2.9E-07	2.9E-06
492	UCART12	440756.6	3762008.86	440756.61, 3762008.86	3.20139	2.96007	0.00342	16.29917	1.18E-05	4.58E-03	2.12E-05	6.96E-04	5.31E-03	1.8E-06	5.5E-06	4.4E-06	3.8E-06	1.7E-06	0.0E+00	0.0E+00	1.2E-06	1.3E-06	2.7E-07	2.7E-06
493	UCART12	440806.6	3762008.86	440806.61, 3762008.86	2.97277	2.75813	0.00336	16.0824	1.10E-05	4.27E-03	2.08E-05	6.86E-04	4.98E-03	1.7E-06	5.2E-06	4.1E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	1.1E-06	1.2E-06	2.5E-07	2.6E-06
494	UCART12	440856.6	3762008.86	440856.61, 3762008.86	2.77776	2.58563	0.00327	16.03124	1.03E-05	4.00E-03	2.03E-05	6.84E-04	4.71E-03	1.6E-06	4.9E-06	3.9E-06	3.4E-06	1.5E-06	0.0E+00	0.0E+00	1.1E-06	1.1E-06	2.4E-07	2.4E-06
495	UCART12	440906.6	3762008.86	440906.61, 3762008.86	2.60551	2.43287	0.00316	16.00972	9.64E-06	3.76E-03	1.96E-05	6.83E-04	4.48E-03	1.5E-06	4.7E-06	3.7E-06	3.2E-06	1.4E-06	0.0E+00	0.0E+00	1.0E-06	1.1E-06	2.3E-07	2.3E-06
496	UCART12	440956.6	3762008.86	440956.61, 3762008.86	2.44151	2.28614	0.00303	15.69258	9.03E-06	3.54E-03	1.88E-05	6.70E-04	4.23E-03	1.5E-06	4.4E-06	3.5E-06	3.0E-06	1.4E-06	0.0E+00	0.0E+00	9.7E-07	1.0E-06	2.1E-07	2.2E-06
497	UCART12	441006.6	3762008.86	441006.61, 3762008.86	2.29226	2.1521	0.00289	15.23089	8.48E-06	3.33E-03	1.79E-05	6.50E-04	4.01E-03	1.4E-06	4.2E-06	3.3E-06	2.9E-06	1.3E-06	0.0E+00	0.0E+00	9.2E-07	9.4E-07	2.0E-07	2.1E-06
498	UCART12	441056.6	3762008.86	441056.61, 3762008.86	2.15244	2.0258	0.00276	14.35464	7.96E-06	3.13E-03	1.71E-05	6.13E-04	3.77E-03	1.3E-06	3.9E-06	3.1E-06	2.7E-06	1.2E-06	0.0E+00	0.0E+00	8.7E-07	8.9E-07	1.9E-07	1.9E-06
499	UCART12	441106.6	3762008.86	441106.61, 3762008.86	2.02704	1.91234	0.00262	12.93718	7.50E-06	2.96E-03	1.62E-05	5.52E-04	3.53E-03	1.2E-06	3.7E-06	2.9E-06	2.5E-06	1.1E-06	0.0E+00	0.0E+00	8.1E-07	8.3E-07	1.8E-07	1.8E-06
500	UCART12	441156.6	3762008.86	441156.61, 3762008.86	1.91221	1.80815	0.00248	10.44671	7.08E-06	2.80E-03	1.54E-05	4.46E-04	3.27E-03	1.1E-06	3.4E-06	2.7E-06	2.3E-06	1.0E-06	0.0E+00	0.0E+00	7.5E-07	7.7E-07	1.7E-07	1.7E-06
501	UCART12	440406.6	3762058.86	440406.61, 3762058.86	7.00391	6.22291	0.00435	36.17263	2.59E-05	9.63E-03	2.70E-05	1.54E-03	1.12E-02	3.9E-06	1.2E-05	9.3E-06	8.0E-06	3.6E-06	0.0E+00	0.0E+00	2.6E-06	2.6E-06	5.7E-07	5.8E-06
502	UCART12	440456.6	3762058.86	440456.61, 3762058.86	6.38292	5.68635	0.00454	43.39778	2.36E-05	8.80E-03	2.82E-05	1.85E-03	1.07E-02	3.7E-06	1.1E-05	8.8E-06	7.6E-06	3.4E-06	0.0E+00	0.0E+00	2.5E-06	2.5E-06	5.4E-07	5.5E-06
503	UCART12	440506.6	3762058.86	440506.61, 3762058.86	5.78621	5.17801	0.00471	44.90561	2.14E-05	8.01E-03	2.92E-05	1.92E-03	9.98E-03	3.5E-06	1.0E-05	8.2E-06	7.1E-06	3.2E-06	0.0E+00	0.0E+00	2.3E-06	2.4E-06	5.1E-07	5.1E-06
504	UCART12	440556.6	3762058.86	440556.61, 3762058.86	5.24507	4.71912	0.00482	45.30614	1.94E-05	7.30E-03	2.99E-05	1.93E-03	9.28E-03	3.2E-06	9.7E-06	7.7E-06	6.6E-06	3.0E-06	0.0E+00	0.0E+00	2.1E-06	2.2E-06	4.7E-07	4.8E-06
505	UCART12	440606.6	3762058.86	440606.61, 3762058.86	4.7689	4.31471	0.00487	45.41047	1.76E-05	6.67E-03	3.02E-05	1.94E-03	8.66E-03	3.0E-06	9.1E-06	7.1E-06	6.2E-06	2.8E-06	0.0E+00	0.0E+00	2.0E-06	2.0E-06	4.4E-07	4.5E-06
506	UCART12	440656.6	3762058.86	440656.61, 3762058.86	4.36039	3.96643	0.00485	45.32907	1.61E-05	6.14E-03	3.01E-05	1.93E-03	8.12E-03	2.8E-06	8.5E-06	6.7E-06	5.8E-06	2.6E-06	0.0E+00	0.0E+00	1.9E-06	1.9E-06	4.1E-07	4.2E-06
507	UCART12	440706.6	3762058.86	440706.61, 3762058.86	4.00877	3.66506	0.00476	45.52896	1.48E-05	5.67E-03	2.95E-05	1.94E-03	7.66E-03	2.7E-06	8.0E-06	6.3E-06	5.5E-06	2.5E-06	0.0E+00	0.0E+00	1.8E-06	1.8E-06	3.9E-07	4.0E-06
508	UCART12	440756.6	3762058.86	440756.61, 3762058.86	3.69583	3.39457	0.00463	45.51913	1.37E-05	5.25E-03	2.87E-05	1.94E-03	7.24E-03	2.5E-06	7.6E-06	6.0E-06	5.2E-06	2.3E-06	0.0E+00	0.0E+00	1.7E-06	1.7E-06	3.7E-07	3.7E-06
509	UCART12	440806.6	3762058.86	440806.61, 3762058.86	3.40932	3.14432	0.00446	44.44862	1.26E-05	4.86E-03	2.77E-05	1.90E-03	6.80E-03	2.4E-06	7.1E-06	5.6E-06	4.9E-06	2.2E-06	0.0E+00	0.0E+00	1.6E-06	1.6E-06	3.4E-07	3.5E-06
510	UCART12	440856.6	3762058.86	440856.61, 3762058.86	3.16168	2.92738	0.00425	44.52731	1.17E-05	4.53E-03	2.64E-05	1.90E-03	6.47E-03	2.2E-06	6.8E-06	5.3E-06	4.6E-06	2.1E-06	0.0E+00	0.0E+00	1.5E-06	1.5E-06	3.3E-07	3.3E-06
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	2.94083	2.733	0.00403	44.63521	1.09E-05	4.23E-03	2.50E-05	1.90E-03	6.17E-03	2.1E-06	6.4E-06	5.1E-06	4.4E-06	2.0E-06	0.0E+00	0.0E+00	1.4E-06	1.5E-06	3.1E-07	3.2E-06
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	2.73737	2.55258	0.0038	43.97241	1.01E-05	3.95E-03	2.36E-05	1.88E-03	5.86E-03	2.0E-06	6.1E-06	4.8E-06	4.2E-06	1.9E-06	0.0E+00	0.0E+00	1.3E-06	1.4E-06	3.0E-07	3.0E-06
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	2.55236	2.38764	0.00357	43.21195	9.44E-06	3.69E-03	2.21E-05	1.84E-03	5.57E-03	1.9E-06	5.8E-06	4.6E-06	4.0E-06	1.8E-06	0.0E+00	0.0E+00	1.3E-06	1.3E-06	2.8E-07	2.9E-06
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	2.38477	2.23757	0.00335	42.10346	8.82E-06	3.46E-03	2.08E-05	1.80E-03	5.29E-03	1.8E-06	5.5E-06	4.4E-06	3.8E-06	1.7E-06	0.0E+00	0.0E+00	1.2E-06	1.2E-06	2.7E-07	2.7E-06
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	2.23236	2.10052	0.00314	39.8099	8.26E-06	3.25E-03	1.95E-05	1.70E-03	4.98E-03	1.7E-06	5.2E-06	4.1E-06	3.6E-06	1.6E-06	0.0E+00	0.0E+00	1.1E-06	1.2E-06	2.5E-07	2.6E-06
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	2.09387	1.97549	0.00294	29.15804	7.75E-06	3.06E-03	1.82E-05	1.24E-03	4.33E-03	1.5E-06	4.5E-06	3.6E-06	3.1E-06	1.4E-06	0.0E+00	0.0E+00	9.9E-07	1.0E-06	2.2E-07	2.2E-06
517	ONSITE	440191.4	3762138.44	440191.38, 3762138.44	12.03481	10.74853	0.00836	5.24892	4.45E-05	1.66E-02	5.18E-05	2.24E-04	1.69E-02	5.9E-06	1.8E-05	1.4E-05	1.2E-05	5.4E-06	0.0E+00	0.0E+00	3.9E-06	4.0E-06	8.6E-07	8.7E-06
518	ONSITE	440241.4	3762138.44	440241.38, 3762138.44	12.93805	11.32316	0.00853	6.86621	4.79E-05	1.75E-02	5.29E-05	2.93E-04	1.79E-02	6.2E-06	1.9E-05	1.5E-05	1.3E-05	5.8E-06	0.0E+00	0.0E+00	4.1E-06	4.2E-06	9.1E-07	9.2E-06
519	ONSITE	440291.4	3762138.44	440291.38, 3762138.44	12.97724	11.20436	0.00831	9.95728	4.80E-05	1.73E-02	5.15E-05	4.25E-04	1.79E-02	6.2E-06	1.9E-05	1.5E-05	1.3E-05	5.7E-06	0.0E+00	0.0E+00	4.1E-06	4.2E-06	9.0E-07	9.2E-06
520	ONSITE	440341.4	3762138.44	440341.38, 3762138.44	12.11165	10.39712	0.00834	18.08092	4.48E-05	1.61E-02	5.17E-05	7.72E-04	1.70E-02	5.9E-06	1.8E-05	1.4E-05	1.2E-05	5.4E-06	0.0E+00	0.0E+00	3.9E-06	4.0E-06	8.6E-07	8.7E-06
521	ONSITE	440191.4	3762188.44	440191.38, 3762188.44	17.30245	15.14603	0.01311	5.54571	6.40E-05	2.34E-02	8.13E-05	2.37E-04	2.38E-02	8.2E-06	2.5E-05	2.0E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	5.5E-06	5.6E-06	1.2E-06	1.2E-05
522	ONSITE	440241.4	3762188.44	440241.38, 3762188.44	19.158	16.24069	0.01421	7.23204	7.09E-05	2.51E-02	8.81E-05	3.09E-04	2.56E-02	8.9E-06	2.7E-05	2.1E-05	1.8E-05	8.2E-06	0.0E+00	0.0E+00	5.9E-06	6.0E-06	1.3E-06	1.3E-05
523	ONSITE	440291.4	3762188.44	440291.38, 3762188.44	19.41626	16.16158	0.01438	10.526	7.18E-05	2.50E-02	8.92E-05	4.49E-04	2.56E-02	8.9E-06	2.7E-05	2.1E-05	1.8E-05	8.2E-06	0.0E+00	0.0E+00	5.9E-06	6.0E-06	1.3E-06	1.3E-05
524	ONSITE	440341.4	3762188.44	440341.38, 3762188.44	17.5969	14.57909	0.01482	19.09891	6.51E-05	2.26E-02	9.19E-05	8.15E-04	2.35E-02	8.1E-06	2.5E-05	1.9E-05	1.7E-05	7.6E-06	0.0E+00	0.0E+00	5.4E-06	5.5E-06	1.2E-06	1.2E-05
525	ONSITE	440191.4	3762238.44	440191.38, 3762238.44	26.90355	22.91794	0.02261	5.75626	9.96E-05	3.55E-02	1.40E-04	2.46E-04	3.59E-02	1.2E-05	3.8E-05	3.0E-05	2.6E-05	1.2E-05	0.0E+00	0.0E+00	8.3E-06	8.5E-06	1.8E-06	1.9E-05
526	ONSITE	440241.4	3762238.44	440241.38, 3762238.44	32.62897	26.10954	0.02728	7.48289	1.21E-04	4.04E-02	1.69E-04	3.19E-04	4.10E-02	1.4E-05	4.3E-05	3.4E-05	2.9E-05	1.3E-05	0.0E+00	0.0E+00	9.4E-06	9.7E-06	2.1E-06	2.1E-05
527	ONSITE	440291.4	3762238.44	440291.38, 3762238.44	33.06517	25.8147	0.03035	10.81281	1.22E-04	3.99E-02	1.88E-04	4.61E-04	4.07E-02	1.4E-05	4.3E-05	3.4E-05	2.9E-05	1.3E-05	0.0E+00	0.0E+00	9.3E-06	9.6E-06	2.1E-06	2.1E-05
528	ONSITE	440341.4	3762238.44	440341.38, 3762238.44	27.92428	21.85662	0.03244	19.50344	1.03E-04	3.38E-02	2.01E-04	8.32E-04	3.49E-02	1.2E-05	3.7E-05	2.9E-05	2.5E-05	1.1E-05	0.0E+00	0.0E+00	8.0E-06	8.2E-06	1.8E-06	1.8E-05

PHASE 2 OPERATIONAL MITIGATED

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	2.51E-07	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	1.43416	1.37102	0.00043	1.57375	5.31E-06	3.45E-07	2.67E-06	6.72E-05	7.55E-05
2	1	439943.4	3761716.33	439943.36, 3761716.33	1.98037	1.91611	0.00088	1.46133	7.33E-06	4.82E-07	5.46E-06	6.24E-05	7.56E-05
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	0.63646	0.66513	0.00015	0.64892	2.36E-06	1.67E-07	9.30E-07	2.77E-05	3.11E-05
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	0.65453	0.6878	0.00015	0.68951	2.42E-06	1.73E-07	9.30E-07	2.94E-05	3.29E-05
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	0.68962	0.72569	0.00015	0.73902	2.55E-06	1.82E-07	9.30E-07	3.15E-05	3.52E-05
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	0.71843	0.75271	0.00014	0.79222	2.66E-06	1.89E-07	8.68E-07	3.38E-05	3.75E-05
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	0.75538	0.79318	0.00014	0.85471	2.80E-06	1.99E-07	8.68E-07	3.65E-05	4.03E-05
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	0.8042	0.84109	0.00013	0.9286	2.98E-06	2.11E-07	8.06E-07	3.96E-05	4.36E-05
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	0.86003	0.9182	0.00013	1.01558	3.18E-06	2.31E-07	8.06E-07	4.33E-05	4.76E-05
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	0.90776	0.97144	0.00012	1.11418	3.36E-06	2.44E-07	7.44E-07	4.75E-05	5.19E-05
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	0.95579	1.01223	0.00011	1.22975	3.54E-06	2.54E-07	6.82E-07	5.25E-05	5.69E-05
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	0.98375	1.04377	0.00011	1.36462	3.64E-06	2.62E-07	6.82E-07	5.82E-05	6.28E-05
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	1.00964	1.06697	0.00011	1.52647	3.74E-06	2.68E-07	6.82E-07	6.51E-05	6.98E-05
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	1.0488	1.09358	0.00011	1.7255	3.88E-06	2.75E-07	6.82E-07	7.36E-05	7.85E-05
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	1.093	1.1417	0.00013	1.96863	4.04E-06	2.87E-07	8.06E-07	8.40E-05	8.91E-05
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	1.13378	1.18632	0.00015	2.25428	4.20E-06	2.98E-07	9.30E-07	9.62E-05	1.02E-04
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	1.17214	1.22836	0.00017	2.57304	4.34E-06	3.09E-07	1.05E-06	1.10E-04	1.15E-04
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	0.59681	0.61939	0.00013	0.62741	2.21E-06	1.56E-07	8.06E-07	2.68E-05	2.99E-05
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	0.61773	0.63819	0.00013	0.66632	2.29E-06	1.60E-07	8.06E-07	2.84E-05	3.17E-05
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	0.65099	0.68121	0.00012	0.71269	2.41E-06	1.71E-07	7.44E-07	3.04E-05	3.37E-05
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	0.67441	0.70223	0.00012	0.76185	2.50E-06	1.77E-07	7.44E-07	3.25E-05	3.59E-05
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	0.70818	0.73847	0.00011	0.81968	2.62E-06	1.86E-07	6.82E-07	3.50E-05	3.85E-05
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	0.75348	0.79256	0.00011	0.88762	2.79E-06	1.99E-07	6.82E-07	3.79E-05	4.15E-05
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	0.78201	0.8179	0.0001	0.96109	2.89E-06	2.06E-07	6.20E-07	4.10E-05	4.47E-05
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	0.81656	0.85622	9.00E-05	1.04683	3.02E-06	2.15E-07	5.58E-07	4.47E-05	4.85E-05
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	0.86811	0.90593	9.00E-05	1.15016	3.21E-06	2.28E-07	5.58E-07	4.91E-05	5.31E-05
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	0.90224	0.949	9.00E-05	1.26658	3.34E-06	2.39E-07	5.58E-07	5.40E-05	5.82E-05
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	0.92634	0.9624	9.00E-05	1.39827	3.43E-06	2.42E-07	5.58E-07	5.97E-05	6.39E-05
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	0.95759	0.9965	0.0001	1.55409	3.54E-06	2.50E-07	6.20E-07	6.63E-05	7.07E-05
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	0.99008	1.03187	0.00011	1.73013	3.66E-06	2.59E-07	6.82E-07	7.38E-05	7.84E-05
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	1.01876	1.06329	0.00013	1.92711	3.77E-06	2.67E-07	8.06E-07	8.22E-05	8.71E-05
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	1.04645	1.09361	0.00016	2.14215	3.87E-06	2.75E-07	9.92E-07	9.14E-05	9.65E-05
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	0.56033	0.58105	0.00011	0.60574	2.07E-06	1.46E-07	6.82E-07	2.58E-05	2.87E-05
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	0.58352	0.60626	0.0001	0.64304	2.16E-06	1.52E-07	6.20E-07	2.74E-05	3.04E-05
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	0.61409	0.63826	0.0001	0.68626	2.27E-06	1.60E-07	6.20E-07	2.93E-05	3.23E-05
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	0.63502	0.66211	9.00E-05	0.73078	2.35E-06	1.66E-07	5.58E-07	3.12E-05	3.43E-05
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	0.6662	0.69533	9.00E-05	0.78435	2.47E-06	1.75E-07	5.58E-07	3.35E-05	3.67E-05
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	0.70445	0.73519	8.00E-05	0.84573	2.61E-06	1.85E-07	4.96E-07	3.61E-05	3.94E-05
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	0.72974	0.7639	8.00E-05	0.91092	2.70E-06	1.92E-07	4.96E-07	3.89E-05	4.23E-05
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	0.76128	0.79849	7.00E-05	0.98666	2.82E-06	2.01E-07	4.34E-07	4.21E-05	4.56E-05
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	0.79544	0.83576	7.00E-05	1.07346	2.94E-06	2.10E-07	4.34E-07	4.58E-05	4.94E-05
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	0.83113	0.87469	8.00E-05	1.1726	3.08E-06	2.20E-07	4.96E-07	5.00E-05	5.38E-05
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	0.84793	0.87955	8.00E-05	1.27492	3.14E-06	2.21E-07	4.96E-07	5.44E-05	5.83E-05
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	0.86359	0.8972	9.00E-05	1.3878	3.20E-06	2.26E-07	5.58E-07	5.92E-05	6.32E-05
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	0.88556	0.92121	0.00011	1.51853	3.28E-06	2.32E-07	6.82E-07	6.48E-05	6.90E-05
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	0.91189	0.94962	0.00012	1.66317	3.37E-06	2.39E-07	7.44E-07	7.10E-05	7.53E-05
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	0.93731	0.97702	0.00015	1.81456	3.47E-06	2.46E-07	9.30E-07	7.74E-05	8.21E-05
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	0.52967	0.543	9.00E-05	0.58401	1.96E-06	1.36E-07	5.58E-07	2.49E-05	2.76E-05
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	0.5518	0.56621	9.00E-05	0.61899	2.04E-06	1.42E-07	5.58E-07	2.64E-05	2.92E-05
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	0.57855	0.59405	8.00E-05	0.65864	2.14E-06	1.49E-07	4.96E-07	2.81E-05	3.09E-05
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	0.60243	0.61916	8.00E-05	0.70126	2.23E-06	1.56E-07	4.96E-07	2.99E-05	3.28E-05
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	0.62929	0.64733	7.00E-05	0.74921	2.33E-06	1.63E-07	4.34E-07	3.20E-05	3.49E-05
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	0.65691	0.67637	7.00E-05	0.80253	2.43E-06	1.70E-07	4.34E-07	3.42E-05	3.73E-05
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	0.67881	0.6998	6.00E-05	0.86015	2.51E-06	1.76E-07	3.72E-07	3.67E-05	3.98E-05
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	0.70642	0.72902	6.00E-05	0.92567	2.61E-06	1.83E-07	3.72E-07	3.95E-05	4.27E-05
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	0.73581	0.76015	6.00E-05	1.00054	2.72E-06	1.91E-07	3.72E-07	4.27E-05	4.60E-05
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	0.76545	0.79162	7.00E-05	1.08336	2.83E-06	1.99E-07	4.34E-07	4.62E-05	4.97E-05
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	0.78241	0.81024	7.00E-05	1.16437	2.90E-06	2.04E-07	4.34E-07	4.97E-05	5.32E-05
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	0.79302	0.82236	9.00E-05	1.25176	2.93E-06	2.07E-07	5.58E-07	5.34E-05	5.71E-05
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	0.80838	0.83916	0.0001	1.34877	2.99E-06	2.11E-07	6.20E-07	5.76E-05	6.14E-05
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	0.82462	0.85675	0.00012	1.4518	3.05E-06	2.15E-07	7.44E-07	6.20E-05	6.60E-05
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	0.84374	0.87728	0.00013	1.55969	3.12E-06	2.21E-07	8.06E-07	6.66E-05	7.07E-05
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	0.49892	0.51144	7.00E-05	0.55834	1.85E-06	1.29E-07	4.34E-07	2.38E-05	2.62E-05
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	0.51266	0.52608	7.00E-05	0.58647	1.90E-06	1.32E-07	4.34E-07	2.50E-05	2.75E-05
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	0.53399	0.54838	6.00E-05	0.62176	1.98E-06	1.38E-07	3.72E-07	2.65E-05	2.90E-05
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	0.55923	0.57465	6.00E-05	0.66298	2.07E-06	1.44E-07	3.72E-07	2.83E-05	3.09E-05
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	0.5891	0.60563	6.00E-05	0.71088	2.18E-06	1.52E-07	3.72E-07	3.03E-05	3.30E-05
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	0.60589	0.62357	5.00E-05	0.75326	2.24E-06	1.57E-07	3.10E-07	3.21E-05	3.49E-05
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	0.62474	0.64365	5.00E-05	0.80154	2.31E-06	1.62E-07	3.10E-07	3.42E-05	3.70E-05
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	0.64441	0.6646	5.00E-05	0.85548	2.38E-06	1.67E-07	3.10E-07	3.65E-05	3.94E-05
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	0.67682	0.69849	6.00E-05	0.92368	2.50E-06	1.76E-07	3.72E-07	3.94E-05	4.25E-05
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	0.69759	0.72066	6.00E-05	0.99015	2.58E-06	1.81E-07	3.72E-07	4.23E-05	4.54E-05
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	0.71718	0.74164	7.00E-05	1.06181	2.65E-06	1.86E-07	4.34E-07	4.53E-05	4.86E-05
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	0.72677	0.75234	8.00E-05	1.12974	2.69E-06	1.89E-07	4.96E-07	4.82E-05	5.16E-05
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	0.73193	0.7583	9.00E-05	1.19611	2.71E-06	1.91E-07	5.58E-07	5.10E-05	5.45E-05
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	0.74704	0.77449	0.00011	1.27426	2.76E-06	1.95E-07	6.82E-07	5.44E-05	5.80E-05
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	0.76548	0.79412	0.00012	1.35734	2.83E-06	2.00E-07	7.44E-07	5.79E-05	6.17E-05
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	0.47053	0.48217	6.00E-05	0.53395	1.74E-06	1.21E-07	3.72E-07	2.28E-05	2.50E-05
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	0.48405	0.49645	6.00E-05	0.55979	1.79E-06	1.25E-07	3.72E-07	2.39E-05	2.62E-05
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	0.5078	0.52105	5.00E-05	0.59595	1.88E-06	1.31E-07	3.10E-07	2.54E-05	2.78E-05

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
2.6E-08	7.9E-08	6.2E-08	5.4E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.8E-08	3.8E-09	3.9E-08
2.6E-08	7.9E-08	6.2E-08	5.4E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.8E-08	3.8E-09	3.9E-08
1.1E-08	3.3E-08	2.6E-08	2.2E-08	1.0E-08	0.0E+00	0.0E+00	7.2E-09	7.3E-09	1.6E-09	1.6E-08
1.1E-08	3.4E-08	2.7E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.6E-09	7.8E-09	1.7E-09	1.7E-08
1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.1E-09	8.3E-09	1.8E-09	1.8E-08
1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.6E-09	8.8E-09	1.9E-09	1.9E-08
1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.3E-09	9.5E-09	2.0E-09	2.1E-08
1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
1.6E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.5E-08
1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.7E-08
2.0E-08	6.0E-08	4.7E-08	4.1E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.9E-09	2.9E-08
2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.5E-08	3.2E-09	3.2E-08
2.4E-08	7.3E-08	5.8E-08	5.0E-08	2.2E-08	0.0E+00	0.0E+00	1.6E-08	1.6E-08	3.5E-09	3.6E-08
2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	1.8E-08	1.8E-08	4.0E-09	4.0E-08
3.1E-08	9.3E-08	7.4E-08	6.4E-08	2.9E-08	0.0E+00	0.0E+00	2.0E-08	2.1E-08	4.5E-09	4.6E-08
3.5E-08	1.1E-07	8.4E-08	7.3E-08	3.3E-08	0.0E+00	0.0E+00	2.3E-08	2.4E-08	5.1E-09	5.2E-08
4.0E-08	1.2E-07	9.5E-08	8.3E-08	3.7E-08	0.0E+00	0.0E+00	2.7E-08	2.7E-08	5.9E-09	6.0E-08
1.0E-08	3.1E-08	2.5E-08	2.1E-08	9.6E-09	0.0E+00	0.0E+00	6.9E-09	7.1E-09	1.5E-09	1.5E-08
1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	7.3E-09	7.5E-09	1.6E-09	1.6E-08
1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.7E-09	8.0E-09	1.7E-09	1.7E-08
1.2E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.2E-09	8.5E-09	1.8E-09	1.9E-08
1.3E-08	4.0E-08	3.2E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.8E-09	9.1E-09	1.9E-09	2.0E-08
1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	9.5E-09	9.8E-09	2.1E-09	2.1E-08
1.5E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.3E-08
1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.5E-09	2.5E-08
1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.3E-08	2.7E-09	2.7E-08
2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	1.3E-08	1.4E-08	2.9E-09	3.0E-08
2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	1.5E-08	1.5E-08	3.2E-09	3.3E-08
2.4E-08	7.4E-08	5.8E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	1.6E-08	1.7E-08	3.6E-09	3.7E-08
2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	1.8E-08	1.8E-08	4.0E-09	4.0E-08
3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	0.0E+00	0.0E+00	2.0E-08	2.1E-08	4.4E-09	4.5E-08
3.3E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	0.0E+00	0.0E+00	2.2E-08	2.3E-08	4.9E-09	5.0E-08
1.0E-08	3.0E-08	2.4E-08	2.1E-08	9.2E-09	0.0E+00	0.0E+00	6.6E-09	6.8E-09	1.5E-09	1.5E-08
1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.8E-09	0.0E+00	0.0E+00	7.0E-09	7.2E-09	1.5E-09	1.6E-08
1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	7.4E-09	7.6E-09	1.6E-09	1.7E-08
1.2E-08	3.6E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.9E-09	8.1E-09	1.7E-09	1.8E-08
1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.4E-09	8.6E-09	1.9E-09	1.9E-08
1.4E-08	4.1E-08	3.3E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	9.0E-09	9.3E-09	2.0E-09	2.0E-08
1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	9.7E-09	1.0E-08	2.1E-09	2.2E-08
1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.4E-08
1.7E-08	5.2E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.2E-08	2.5E-09	2.5E-08
1.9E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.3E-08	2.7E-09	2.8E-08
2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	1.3E-08	1.4E-08	3.0E-09	3.0E-08
2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	1.5E-08	1.5E-08	3.2E-09	3.3E-08
2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	1.6E-08	1.6E-08	3.5E-09	3.6E-08
2.6E-08	7.9E-08	6.2E-08	5.4E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.8E-08	3.8E-09	3.9E-08
2.8E-08	8.6E-08	6.8E-08	5.9E-08	2.6E-08	0.0E+00	0.0E+00	1.9E-08	1.9E-08	4.2E-09	4.2E-08
9.5E-09	2.9E-08	2.3E-08	2.0E-08	8.9E-09	0.0E+00	0.0E+00	6.3E-09	6.5E-09	1.4E-09	1.4E-08
1.0E-08	3.0E-08	2.4E-08	2.1E-08	9.4E-09	0.0E+00	0.0E+00	6.7E-09	6.9E-09	1.5E-09	1.5E-08
1.1E-08	3.2E-08	2.6E-08	2.2E-08	9.9E-09	0.0E+00	0.0E+00	7.1E-09	7.3E-09	1.6E-09	1.6E-08
1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.1E-08	0.0E+00	0.0E+00	7.5E-09	7.7E-09	1.7E-09	1.7E-08
1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.0E-09	8.2E-09	1.8E-09	1.8E-08
1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.6E-09	8.8E-09	1.9E-09	1.9E-08
1.4E-08	4.2E-08	3.3E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	9.1E-09	9.4E-09	2.0E-09	2.1E-08
1.5E-08	4.5E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	9.8E-09	1.0E-08	2.2E-09	2.2E-08
1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.3E-09	2.4E-08
1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.2E-08	2.5E-09	2.6E-08
1.8E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.3E-08	2.7E-09	2.7E-08
2.0E-08	6.0E-08	4.7E-08	4.1E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.9E-09	2.9E-08
2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.1E-09	3.2E-08
2.3E-08	6.9E-08	5.4E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	1.5E-08	1.6E-08	3.3E-09	3.4E-08
2.4E-08	7.4E-08	5.8E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	1.6E-08	1.7E-08	3.6E-09	3.6E-08
9.1E-09	2.7E-08	2.2E-08	1.9E-08	8.4E-09	0.0E+00	0.0E+00	6.0E-09	6.2E-09	1.3E-09	1.4E-08
9.5E-09	2.9E-08

PHASE 2 OPERATIONAL MITIGATED

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	2.51E-07	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	0.52811	0.54225	5.00E-05	0.63167	1.95E-06	1.36E-07	3.10E-07	2.70E-05	2.94E-05
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	0.55323	0.56832	5.00E-05	0.67315	2.05E-06	1.43E-07	3.10E-07	2.87E-05	3.12E-05
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	0.56908	0.58515	5.00E-05	0.71208	2.11E-06	1.47E-07	3.10E-07	3.04E-05	3.29E-05
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	0.58402	0.60109	5.00E-05	0.7534	2.16E-06	1.51E-07	3.10E-07	3.21E-05	3.48E-05
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	0.60025	0.61837	5.00E-05	0.79868	2.22E-06	1.55E-07	3.10E-07	3.41E-05	3.68E-05
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	0.62319	0.64247	5.00E-05	0.85392	2.31E-06	1.61E-07	3.10E-07	3.64E-05	3.92E-05
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	0.64623	0.66672	6.00E-05	0.91338	2.39E-06	1.68E-07	3.72E-07	3.90E-05	4.19E-05
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	0.6597	0.68121	7.00E-05	0.96808	2.44E-06	1.71E-07	4.34E-07	4.13E-05	4.44E-05
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	0.66918	0.69153	8.00E-05	1.02388	2.48E-06	1.74E-07	4.96E-07	4.37E-05	4.68E-05
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	0.6705	0.69338	9.00E-05	1.07063	2.48E-06	1.74E-07	5.58E-07	4.57E-05	4.89E-05
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	0.68241	0.70614	0.0001	1.08486	2.53E-06	1.77E-07	6.20E-07	4.63E-05	4.96E-05
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	0.69646	0.72108	0.00011	1.13572	2.58E-06	1.81E-07	6.82E-07	4.85E-05	5.19E-05
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	0.44415	0.45492	5.00E-05	0.50964	1.64E-06	1.14E-07	3.10E-07	2.17E-05	2.38E-05
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	0.45811	0.46953	5.00E-05	0.53492	1.70E-06	1.18E-07	3.10E-07	2.28E-05	2.49E-05
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	0.47976	0.49194	4.00E-05	0.56787	1.78E-06	1.24E-07	2.48E-07	2.42E-05	2.64E-05
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	0.49268	0.50557	4.00E-05	0.59592	1.82E-06	1.27E-07	2.48E-07	2.54E-05	2.76E-05
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	0.51244	0.52615	4.00E-05	0.63174	1.90E-06	1.32E-07	2.48E-07	2.70E-05	2.92E-05
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	0.52447	0.53893	4.00E-05	0.66398	1.94E-06	1.35E-07	2.48E-07	2.83E-05	3.07E-05
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	0.53764	0.5529	4.00E-05	0.69967	1.99E-06	1.39E-07	2.48E-07	2.99E-05	3.22E-05
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	0.55931	0.57555	4.00E-05	0.74544	2.07E-06	1.45E-07	2.48E-07	3.18E-05	3.43E-05
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	0.57805	0.59524	5.00E-05	0.79148	2.14E-06	1.50E-07	3.10E-07	3.38E-05	3.64E-05
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	0.5978	0.61596	6.00E-05	0.84085	2.21E-06	1.55E-07	3.72E-07	3.59E-05	3.86E-05
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	0.60611	0.62497	6.00E-05	0.88309	2.24E-06	1.57E-07	3.72E-07	3.77E-05	4.05E-05
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	0.61797	0.63757	7.00E-05	0.92992	2.29E-06	1.60E-07	4.34E-07	3.97E-05	4.26E-05
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	0.6206	0.64069	9.00E-05	0.95209	2.30E-06	1.61E-07	5.58E-07	4.06E-05	4.36E-05
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	0.62833	0.64906	0.0001	0.95326	2.33E-06	1.63E-07	6.20E-07	4.07E-05	4.38E-05
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	0.63835	0.65975	0.00011	0.96212	2.36E-06	1.66E-07	6.82E-07	4.11E-05	4.43E-05
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	0.41984	0.42977	4.00E-05	0.48612	1.55E-06	1.08E-07	2.48E-07	2.07E-05	2.27E-05
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	0.43268	0.44316	4.00E-05	0.50914	1.60E-06	1.11E-07	2.48E-07	2.17E-05	2.37E-05
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	0.45231	0.46347	4.00E-05	0.5398	1.67E-06	1.16E-07	2.48E-07	2.30E-05	2.51E-05
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	0.46676	0.47855	3.00E-05	0.56751	1.73E-06	1.20E-07	1.86E-07	2.42E-05	2.62E-05
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	0.47982	0.49226	3.00E-05	0.59593	1.78E-06	1.24E-07	1.86E-07	2.54E-05	2.75E-05
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	0.49369	0.50681	4.00E-05	0.62669	1.83E-06	1.27E-07	2.48E-07	2.67E-05	2.89E-05
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	0.50496	0.51872	4.00E-05	0.65742	1.87E-06	1.30E-07	2.48E-07	2.81E-05	3.03E-05
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	0.52308	0.53766	4.00E-05	0.69622	1.94E-06	1.35E-07	2.48E-07	2.97E-05	3.20E-05
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	0.53682	0.55212	5.00E-05	0.73349	1.99E-06	1.39E-07	3.10E-07	3.13E-05	3.37E-05
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	0.5523	0.56835	5.00E-05	0.77352	2.04E-06	1.43E-07	3.10E-07	3.30E-05	3.55E-05
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	0.56096	0.57759	6.00E-05	0.80958	2.08E-06	1.45E-07	3.72E-07	3.45E-05	3.71E-05
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	0.56842	0.5856	7.00E-05	0.84106	2.10E-06	1.47E-07	4.34E-07	3.59E-05	3.86E-05
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	0.57246	0.59011	8.00E-05	0.82094	2.12E-06	1.48E-07	4.96E-07	3.50E-05	3.78E-05
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	0.57928	0.59747	9.00E-05	0.83003	2.14E-06	1.50E-07	5.58E-07	3.54E-05	3.83E-05
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	0.58881	0.60755	0.0001	0.85757	2.18E-06	1.53E-07	6.20E-07	3.66E-05	3.95E-05
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	0.82338	0.84918	0.00026	0.75218	3.05E-06	2.13E-07	1.61E-06	3.21E-05	3.70E-05
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	0.87627	0.90513	0.00027	0.80666	3.24E-06	2.28E-07	1.67E-06	3.44E-05	3.96E-05
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	0.93437	0.96678	0.00028	0.87147	3.46E-06	2.43E-07	1.74E-06	3.72E-05	4.26E-05
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	0.99877	1.03529	0.00029	0.95268	3.70E-06	2.60E-07	1.80E-06	4.07E-05	4.64E-05
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	1.06895	1.11026	0.0003	1.04011	3.96E-06	2.79E-07	1.86E-06	4.44E-05	5.05E-05
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	1.14596	1.19286	0.0003	1.14162	4.24E-06	3.00E-07	1.86E-06	4.87E-05	5.51E-05
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	1.23114	1.28457	0.0003	1.26966	4.56E-06	3.23E-07	1.86E-06	5.42E-05	6.09E-05
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	1.32422	1.38529	0.0003	1.42074	4.90E-06	3.48E-07	1.86E-06	6.06E-05	6.77E-05
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	0.79586	0.82091	0.00023	0.73321	2.95E-06	2.06E-07	1.43E-06	3.13E-05	3.59E-05
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	0.84195	0.87284	0.00024	0.78763	3.12E-06	2.19E-07	1.49E-06	3.36E-05	3.84E-05
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	0.88165	0.92942	0.00024	0.84801	3.26E-06	2.34E-07	1.49E-06	3.62E-05	4.12E-05
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	0.94967	0.99172	0.00024	0.92106	3.51E-06	2.49E-07	1.49E-06	3.93E-05	4.46E-05
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	1.02058	1.05992	0.00024	1.00602	3.78E-06	2.66E-07	1.49E-06	4.29E-05	4.85E-05
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	1.08151	1.13422	0.00024	1.10359	4.00E-06	2.85E-07	1.49E-06	4.71E-05	5.29E-05
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	1.16589	1.21601	0.00024	1.2244	4.31E-06	3.06E-07	1.49E-06	5.22E-05	5.84E-05
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	1.24309	1.30485	0.00023	1.36765	4.60E-06	3.28E-07	1.43E-06	5.84E-05	6.47E-05
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	0.7419	0.76855	0.0002	0.71166	2.75E-06	1.93E-07	1.24E-06	3.04E-05	3.45E-05
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	0.77846	0.80551	0.0002	0.76268	2.88E-06	2.02E-07	1.24E-06	3.25E-05	3.69E-05
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	0.81071	0.84424	0.0002	0.82007	3.00E-06	2.12E-07	1.24E-06	3.50E-05	3.94E-05
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	0.85472	0.88558	0.0002	0.88663	3.16E-06	2.23E-07	1.24E-06	3.78E-05	4.25E-05
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	0.95795	1.01054	0.0002	0.97198	3.54E-06	2.54E-07	1.24E-06	4.15E-05	4.65E-05
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	1.00584	1.06557	0.00019	1.06296	3.72E-06	2.68E-07	1.18E-06	4.54E-05	5.05E-05
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	1.08518	1.14971	0.00018	1.17448	4.02E-06	2.89E-07	1.12E-06	5.01E-05	5.55E-05
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	1.13418	1.19979	0.00018	1.3044	4.20E-06	3.02E-07	1.12E-06	5.57E-05	6.13E-05
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	0.68995	0.71406	0.00017	0.68954	2.55E-06	1.79E-07	1.05E-06	2.94E-05	3.32E-05
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	0.70145	0.73379	0.00017	0.73622	2.60E-06	1.84E-07	1.05E-06	3.14E-05	3.52E-05
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	0.73387	0.77324	0.00017	0.79029	2.72E-06	1.94E-07	1.05E-06	3.37E-05	3.77E-05
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	0.77201	0.80585	0.00016	0.85257	2.86E-06	2.03E-07	9.92E-07	3.64E-05	4.04E-05
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	0.81839	0.8658	0.00016	0.92637	3.03E-06	2.18E-07	9.92E-07	3.95E-05	4.38E-05
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	0.87447	0.93282	0.00015	1.01271	3.24E-06	2.34E-07	9.30E-07	4.32E-05	4.76E-05
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	0.96203	1.00606	0.00014	1.1143	3.56E-06	2.53E-07	8.68E-07	4.75E-05	5.22E-05
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	0.98104	1.05098	0.00013	1.23154	3.63E-06	2.64E-07	8.06E-07	5.26E-05	5.73E-05
155	UCART3	439196	3762392.48	439196.01, 3762392.48	1.02051	1.04278	0.00043	0.79564	3.78E-06	2.62E-07	2.67E-06	3.40E-05	4.07E-05
156	UCART3	439246	3762392.48	439246.01, 3762392.48	1.10477	1.12991	0.00048	0.85085	4.09E-06	2.84E-07	2.98E-06	3.63E-05	4.37E-05
157	UCART3	439296	3762392.48	439296.01, 3762392.48	1.20067	1.22918	0.00054	0.91197	4.44E-06	3.09E-07	3.35E-06	3.89E-05	4.70E-05
158	UCART3	439346	3762392.48	439346.01, 3762392.48	1.31072	1.34326	0.0006	0.97996	4.85E-06	3.38E-07	3.72E-06	4.18E-05	5.07E-05
159	UCART3	439396	3762392.48	439396.01, 3762392.48	1.43787	1.47524	0.00068	1.05566	5.32E-06	3.71E-07	4.22E-06	4.50E-05	5.50E-05
160	UCART3	439446	3762392.48	439446.01, 3762392.48	1.58568	1.62883	0.00078	1.13978	5.87E-06	4.09E-07	4.84E-06	4.86E-05	5.97E-05

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
81	UCART1	1.0E-08	3.1E-08	2.4E-08	2.1E-08	9.4E-09	0.0E+00	0.0E+00	6.7E-09	6.9E-09	1.5E-09	1.5E-08
82	UCART1	1.1E-08	3.3E-08	2.6E-08	2.2E-08	1.0E-08	0.0E+00	0.0E+00	7.2E-09	7.4E-09	1.6E-09	1.6E-08
83	UCART1	1.1E-08	3.4E-08	2.7E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.6E-09	7.8E-09	1.7E-09	1.7E-08
84	UCART1	1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.0E-09	8.2E-09	1.8E-09	1.8E-08
85	UCART1	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.4E-09	8.7E-09	1.9E-09	1.9E-08
86	UCART1	1.4E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	9.0E-09	9.2E-09	2.0E-09	2.0E-08
87	UCART1	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	9.6E-09	9.9E-09	2.1E-09	2.2E-08
88	UCART1	1.5E-08	4.6E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
89	UCART1	1.6E-08	4.9E-08	3.9E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
90	UCART1	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.2E-08	2.5E-09	2.5E-08
91	UCART1	1.7E-08	5.2E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.2E-08	2.5E-09	2.6E-08
92	UCART1	1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.7E-08
93	UCART1	8.2E-09	2.5E-08	2.0E-08	1.7E-08	7.7E-09	0.0E+00	0.0E+00	5.5E-09	5.6E-09	1.2E-09	1.2E-08
94	UCART1	8.6E-09	2.6E-08	2.1E-08	1.8E-08	8.0E-09	0.0E+00	0.0E+00	5.7E-09	5.9E-09	1.3E-09	1.3E-08
95	UCART1	9.1E-09	2.8E-08	2.2E-08	1.9E-08	8.5E-09	0.0E+00	0.0E+00	6.1E-09	6.2E-09	1.3E-09	1.4E-08
96	UCART1	9.6E-09	2.9E-08	2.3E-08	2.0E-08	8.9E-09	0.0E+00	0.0E+00	6.3E-09	6.5E-09	1.4E-09	1.4E-08
97	UCART1	1.0E-08	3.1E-08	2.4E-08	2.1E-08	9.4E-09	0.0E+00	0.0E+00	6.7E-09	6.9E-09	1.5E-09	1.5E-08
98	UCART1	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.8E-09	0.0E+00	0.0E+00	7.0E-09	7.2E-09	1.6E-09	1.6E-08
99	UCART1	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	7.4E-09	7.6E-09	1.6E-09	1.7E-08
100	UCART1	1.2E-08	3.6E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.9E-09	8.1E-09	1.7E-09	1.8E-08
101	UCART1	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.4E-09	8.6E-09	1.8E-09	1.9E-08
102	UCART1	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	8.9E-09	9.1E-09	2.0E-09	2.0E-08
103	UCART1	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.3E-09	9.5E-09	2.0E-09	2.1E-08
104	UCART1	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	9.8E-09	1.0E-08	2.2E-09	2.2E-08
105	UCART1	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
106	UCART1	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
107	UCART1	1.5E-08	4.6E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
108	UCART1	7.8E-09	2.4E-08	1.9E-08	1.6E-08	7.3E-09	0.0E+00	0.0E+00	5.2E-09	5.3E-09	1.1E-09	1.2E-08
109	UCART1	8.2E-09	2.5E-08	2.0E-08	1.7E-08	7.6E-09	0.0E+00	0.0E+00	5.4E-09	5.6E-09	1.2E-09	1.2E-08
110	UCART1	8.7E-09	2.6E-08	2.1E-08	1.8E-08	8.1E-09	0.0E+00	0.0E+00	5.8E-09	5.9E-09	1.3E-09	1.3E-08
111	UCART1	9.1E-09	2.7E-08	2.2E-08	1.9E-08	8.4E-09	0.0E+00	0.0E+00	6.0E-09	6.2E-09	1.3E-09	1.4E-08
112	UCART1	9.5E-09	2.9E-08	2.3E-08	2.0E-08	8.8E-09	0.0E+00	0.0E+00	6.3E-09	6.5E-09	1.4E-09	1.4E-08
113	UCART1	1.0E-08	3.0E-08	2.4E-08	2.1E-08	9.3E-09	0.0E+00	0.0E+00	6.6E-09	6.8E-09	1.5E-09	1.5E-08
114	UCART1	1.0E-08	3.2E-08	2.5E-08	2.2E-08	9.7E-09	0.0E+00	0.0E+00	7.0E-09	7.1E-09	1.5E-09	1.6E-08
115	UCART1	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	7.4E-09	7.6E-09	1.6E-09	1.7E-08
116	UCART1	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.7E-09	8.0E-09	1.7E-09	1.7E-08
117	UCART1	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.2E-09	8.4E-09	1.8E-09	1.8E-08
118	UCART1	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.5E-09	8.8E-09	1.9E-09	1.9E-08
119	UCART1	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	8.9E-09	9.1E-09	2.0E-09	2.0E-08
120	UCART1	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.7E-09	8.9E-09	1.9E-09	2.0E-08
121	UCART1	1.3E-08	4.0E-08	3.2E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.8E-09	9.0E-09	1.9E-09	2.0E-08
122	UCART1	1.4E-08	4.1E-08	3.3E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	9.1E-09	9.3E-09	2.0E-09	2.0E-08
123	UCART2	1.3E-08	3.9E-08	3.1E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.5E-09	8.7E-09	1.9E-09	1.9E-08
124	UCART2	1.4E-08	4.1E-08	3.3E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	9.1E-09	9.3E-09	2.0E-09	2.0E-08
125	UCART2	1.5E-08	4.5E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	9.8E-09	1.0E-08	2.2E-09	2.2E-08
126	UCART2	1.6E-08	4.9E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
127	UCART2	1.7E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.6E-08
128	UCART2	1.9E-08	5.8E-08	4.6E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.8E-09	2.8E-08
129	UCART2	2.1E-08	6.4E-08	5.0E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.1E-09	3.1E-08
130	UCART2	2.3E-08	7.1E-08	5.6E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	1.6E-08	1.6E-08	3.4E-09	3.5E-08
131	UCART2	1.2E-08	3.7E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.2E-09	8.5E-09	1.8E-09	1.9E-08
132	UCART2	1.3E-08	4.0E-08	3.2E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.8E-09	9.1E-09	1.9E-09	2.0E-08
133	UCART2	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.5E-09	9.7E-09	2.1E-09	2.1E-08
134	UCART2	1.5E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.3E-08
135	UCART2	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.5E-09	2.5E-08
136	UCART2	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.7E-09	2.7E-08
137	UCART2	2.0E-08	6.1E-08	4.8E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	1.3E-08	1.4E-08	3.0E-09	3.0E-08
138	UCART2	2.2E-08	6.8E-08	5.3E-08	4.6E-08	2.

PHASE 2 OPERATIONAL MITIGATED

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	2.51E-07	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
161	UCART3	439496	3762392.48	439496.01, 3762392.48	1.76075	1.81124	0.0009	1.23485	6.52E-06	4.55E-07	5.58E-06	5.27E-05	6.52E-05	2.3E-08	6.8E-08	5.4E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	1.5E-08	1.5E-08	3.3E-09	3.4E-08
162	UCART3	439546	3762392.48	439546.01, 3762392.48	1.96992	2.02972	0.00105	1.34209	7.29E-06	5.10E-07	6.51E-06	5.73E-05	7.16E-05	2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	1.6E-08	1.7E-08	3.6E-09	3.7E-08
163	UCART3	439196	3762442.48	439196.01, 3762442.48	1.01194	1.03599	0.00042	0.80146	3.74E-06	2.60E-07	2.60E-06	3.42E-05	4.08E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.4E-09	9.6E-09	2.1E-09	2.1E-08
164	UCART3	439246	3762442.48	439246.01, 3762442.48	1.09489	1.12211	0.00046	0.85805	4.05E-06	2.82E-07	2.85E-06	3.66E-05	4.38E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
165	UCART3	439296	3762442.48	439296.01, 3762442.48	1.18984	1.22094	0.00052	0.92165	4.40E-06	3.07E-07	3.22E-06	3.93E-05	4.73E-05	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
166	UCART3	439346	3762442.48	439346.01, 3762442.48	1.29827	1.33392	0.00058	0.99222	4.80E-06	3.35E-07	3.60E-06	4.23E-05	5.11E-05	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.6E-08
167	UCART3	439396	3762442.48	439396.01, 3762442.48	1.42362	1.46479	0.00066	1.07138	5.27E-06	3.68E-07	4.09E-06	4.57E-05	5.54E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.8E-09	2.9E-08
168	UCART3	439446	3762442.48	439446.01, 3762442.48	1.5698	1.61779	0.00075	1.16048	5.81E-06	4.07E-07	4.65E-06	4.95E-05	6.04E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.1E-09	3.1E-08
169	UCART3	439496	3762442.48	439496.01, 3762442.48	1.74153	1.79794	0.00087	1.26058	6.44E-06	4.52E-07	5.39E-06	5.38E-05	6.61E-05	2.3E-08	6.9E-08	5.5E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	1.5E-08	1.6E-08	3.3E-09	3.4E-08
170	UCART3	439546	3762442.48	439546.01, 3762442.48	1.94563	2.01263	0.00101	1.37345	7.20E-06	5.06E-07	6.26E-06	5.86E-05	7.26E-05	2.5E-08	7.6E-08	6.0E-08	5.2E-08	2.3E-08	0.0E+00	0.0E+00	1.7E-08	1.7E-08	3.7E-09	3.7E-08
171	UCART3	439196	3762492.48	439196.01, 3762492.48	0.99968	1.02519	0.0004	0.80585	3.70E-06	2.58E-07	2.48E-06	3.44E-05	4.08E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.4E-09	9.6E-09	2.1E-09	2.1E-08
172	UCART3	439246	3762492.48	439246.01, 3762492.48	1.08066	1.10953	0.00045	0.86361	4.00E-06	2.79E-07	2.79E-06	3.69E-05	4.39E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
173	UCART3	439296	3762492.48	439296.01, 3762492.48	1.17318	1.20619	0.0005	0.9288	4.34E-06	3.03E-07	3.10E-06	3.96E-05	4.74E-05	1.6E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
174	UCART3	439346	3762492.48	439346.01, 3762492.48	1.27909	1.31708	0.00056	1.00204	4.73E-06	3.31E-07	3.47E-06	4.28E-05	5.13E-05	1.8E-08	5.4E-08	4.2E-08	3.7E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.6E-08
175	UCART3	439396	3762492.48	439396.01, 3762492.48	1.40087	1.44481	0.00064	1.08414	5.18E-06	3.63E-07	3.97E-06	4.63E-05	5.58E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.8E-09	2.9E-08
176	UCART3	439446	3762492.48	439446.01, 3762492.48	1.54239	1.59365	0.00072	1.17695	5.71E-06	4.01E-07	4.46E-06	5.02E-05	6.08E-05	2.1E-08	6.4E-08	5.0E-08	4.3E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.1E-09	3.1E-08
177	UCART3	439496	3762492.48	439496.01, 3762492.48	1.70904	1.76973	0.00083	1.28329	6.32E-06	4.45E-07	5.15E-06	5.48E-05	6.67E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.1E-08	0.0E+00	0.0E+00	1.5E-08	1.6E-08	3.4E-09	3.4E-08
178	UCART3	439546	3762492.48	439546.01, 3762492.48	1.90609	1.97857	0.00097	1.4037	7.05E-06	4.97E-07	6.01E-06	5.99E-05	7.35E-05	2.5E-08	7.7E-08	6.1E-08	5.2E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.7E-08	3.7E-09	3.8E-08
179	UCART3	439196	3762542.48	439196.01, 3762542.48	0.98442	1.01102	0.00039	0.80882	3.64E-06	2.54E-07	2.42E-06	3.45E-05	4.08E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.4E-09	9.6E-09	2.1E-09	2.1E-08
180	UCART3	439246	3762542.48	439246.01, 3762542.48	1.06292	1.09297	0.00044	0.86752	3.93E-06	2.75E-07	2.73E-06	3.70E-05	4.40E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
181	UCART3	439296	3762542.48	439296.01, 3762542.48	1.15235	1.18668	0.00049	0.93406	4.26E-06	2.98E-07	3.04E-06	3.99E-05	4.75E-05	1.6E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
182	UCART3	439346	3762542.48	439346.01, 3762542.48	1.2543	1.2937	0.00055	1.00889	4.64E-06	3.25E-07	3.41E-06	4.31E-05	5.14E-05	1.8E-08	5.4E-08	4.2E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.7E-08
183	UCART3	439396	3762542.48	439396.01, 3762542.48	1.37173	1.41743	0.00062	1.09419	5.08E-06	3.56E-07	3.84E-06	4.67E-05	5.60E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.8E-09	2.9E-08
184	UCART3	439446	3762542.48	439446.01, 3762542.48	1.50757	1.56095	0.0007	1.19112	5.58E-06	3.92E-07	4.34E-06	5.08E-05	6.11E-05	2.1E-08	6.4E-08	5.0E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.1E-09	3.2E-08
185	UCART3	439496	3762542.48	439496.01, 3762542.48	1.66664	1.72991	0.0008	1.30321	6.17E-06	4.35E-07	4.96E-06	5.56E-05	6.72E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	1.5E-08	1.6E-08	3.4E-09	3.5E-08
186	UCART3	439546	3762542.48	439546.01, 3762542.48	1.85357	1.92896	0.00092	1.4306	6.86E-06	4.85E-07	5.70E-06	6.10E-05	7.41E-05	2.6E-08	7.7E-08	6.1E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.7E-08	3.8E-09	3.8E-08
187	UCART3	439196	3762592.48	439196.01, 3762592.48	0.96663	0.99392	0.00038	0.81015	3.58E-06	2.50E-07	2.36E-06	3.46E-05	4.08E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.4E-09	9.6E-09	2.1E-09	2.1E-08
188	UCART3	439246	3762592.48	439246.01, 3762592.48	1.04259	1.07355	0.00043	0.87038	3.86E-06	2.70E-07	2.67E-06	3.71E-05	4.39E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
189	UCART3	439296	3762592.48	439296.01, 3762592.48	1.12843	1.16366	0.00047	0.93792	4.18E-06	2.92E-07	2.91E-06	4.00E-05	4.74E-05	1.6E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
190	UCART3	439346	3762592.48	439346.01, 3762592.48	1.226	1.26632	0.00053	1.01424	4.54E-06	3.18E-07	3.29E-06	4.33E-05	5.14E-05	1.8E-08	5.4E-08	4.2E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.7E-08
191	UCART3	439396	3762592.48	439396.01, 3762592.48	1.33778	1.38432	0.00059	1.10155	4.95E-06	3.48E-07	3.66E-06	4.70E-05	5.60E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.8E-09	2.9E-08
192	UCART3	439446	3762592.48	439446.01, 3762592.48	1.46682	1.52115	0.00067	1.20229	5.43E-06	3.82E-07	4.15E-06	5.13E-05	6.13E-05	2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.1E-09	3.2E-08
193	UCART3	439496	3762592.48	439496.01, 3762592.48	1.61682	1.68108	0.00076	1.31998	5.98E-06	4.23E-07	4.71E-06	5.63E-05	6.74E-05	2.3E-08	7.0E-08	5.6E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	1.5E-08	1.6E-08	3.4E-09	3.5E-08
194	UCART3	439546	3762592.48	439546.01, 3762592.48	1.79209	1.86849	0.00087	1.45505	6.63E-06	4.70E-07	5.39E-06	6.21E-05	7.46E-05	2.6E-08	7.8E-08	6.2E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.8E-08	3.8E-09	3.8E-08
195	UCART3	439196	3762642.48	439196.01, 3762642.48	0.94676	0.97434	0.00038	0.80974	3.50E-06	2.45E-07	2.36E-06	3.46E-05	4.07E-05	1.4E-08	4.2E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.3E-09	9.6E-09	2.1E-09	2.1E-08
196	UCART3	439246	3762642.48	439246.01, 3762642.48	1.01946	1.05071	0.00041	0.87069	3.77E-06	2.64E-07	2.54E-06	3.72E-05	4.37E-05	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
197	UCART3	439296	3762642.48	439296.01, 3762642.48	1.10146	1.13686	0.00046	0.93868	4.08E-06	2.86E-07	2.85E-06	4.01E-05	4.73E-05	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
198	UCART3	439346	3762642.48	439346.01, 3762642.48	1.19416	1.23453	0.00051	1.01604	4.42E-06	3.10E-07	3.16E-06	4.34E-05	5.12E-05	1.8E-08	5.4E-08	4.2E-08	3.7E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.6E-08
199	UCART3	439396	3762642.48	439396.01, 3762642.48	1.30008	1.34671	0.00057	1.10589	4.81E-06	3.39E-07	3.53E-06	4.72E-05	5.59E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.8E-09	2.9E-08
200	UCART3	439446	3762642.48	439446.01, 3762642.48	1.42148	1.4758	0.00063	1.21001	5.26E-06	3.71E-07	3.91E-06	5.16E-05	6.12E-05	2.1E-08	6.4E-08	5.1E-08	4.4E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.1E-09	3.2E-08
201	UCART3	439496	3762642.48	439496.01, 3762642.48	1.56136	1.6254	0.00071	1.3327	5.78E-06	4.09E-07	4.40E-06	5.69E-05	6.75E-05	2.3E-08	7.1E-08	5.6E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	1.5E-08	1.6E-08	3.4E-09	3.5E-08
202	UCART3	439546	3762642.48	439546.01, 3762642.48	1.72375	1.79968	0.0008	1.47559	6.38E-06	4.52E-07	4.96E-06	6.30E-05	7.48E-05	2.6E-08	7.8E-08	6.2E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.8E-08	3.8E-09	3.9E-08
203	UCART3	439196	3762692.48	439196.01, 3762692.48	0.92511	0.95268	0.00036	0.80734	3.42E-06	2.39E-07	2.23E-06	3.45E-05	4.03E-05	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.3E-09	9.5E-09	2.0E-09	2.1E-08
204	UCART3	439246	3762692.48	439246.01, 3762692.48	0.99439	1.02552	0.0004	0.86839	3.68E-06	2.58E-07	2.48E-06	3.71E-05	4.35E-05	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.2E-08
205	UCART3	439296	3762692.48	439296.01, 3762692.48	1.0721	1.10747	0.00044	0.93787	3.97E-06	2.78E-07	2.73E-06	4.00E-05	4.70E-05	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
206	UCART3	439346	3762692.48	439346.01, 3762692.48	1.15987	1.20024	0.00048	1.01688	4.29E-06	3.02E-07	2.98E-06	4.34E-05	5.10E-05	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.6E-08
207	UCART3	439396	3762692.48	439396.01, 3762692.48	1.25937	1.30559	0.00053	1.10718	4.66E-06	3.28E-07	3.29E-06	4.72E-05	5.55E-05	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.8E-09	2.9E-08
208	UCART3	439446	3762692.48	439446.01, 3762692.48	1.37246	1.42612	0.00059	1.21383	5.08E-06	3.58E-07	3.66E-06	5.18E-05	6.09E-05	2.1E-08	6.4E-08	5.0E-08	4.3E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.1E-09	3.1E-08
209	UCART3	439496	3762692.48	439496.01, 3762692.48	1.50157	1.56459	0.00065	1.3409	5.56E-06	3.93E-07	4.03E-06	5.72E-05	6.72E-05	2.3E-08	7.0E-08	5.5E-08	4.8E-08	2.2E-08	0.0E+00	0.0E+00	1.5E-08	1.6E-08	3.4E-09	3.5E-08
210	UCART3	439546	3762692.48	439546.01, 3762692.48	1.65037	1.72475	0.00071	1.49101	6.11E-06	4.34E-07	4.40E-06	6.36E-05	7.46E-05	2.6E-08	7.8E-08	6.2E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.8E-08	3.8E-09	3.8E-08
211	UCART3	439196	3762742.48	439196.01, 3762742.48	0.90197	0.92929	0.00035	0.80178	3.34E-06	2.34E-07	2.17E-06	3.42E-05	4.00E-05	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.2E-09	9.4E-09	2.0E-09	2.1E-08
212	UCART3	439246	3762742.48	439246.01, 3762742.48	0.96773	0.99847	0.00038	0.86346	3.58E-06	2.51E-07	2.36E-06	3.68E-05	4.30E-05	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	9.9E-09	1.0E-08	2.2E-09	2.2E-08
213	UCART3	439296	3762742.48	439296.01, 3762742.48	1.04094	1.0758	0.00041	0.93312	3.85E-06	2.70E-07	2.54E-06	3.98E-05	4.65E-05	1.6E-08	4.9E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
214	UCART3	439346	3762742.48	439346.01, 3762742.48	1.12322	1.16292	0.00045	1.01262	4.16E-06	2.92E-07	2.79E-06	4.32E-05	5.04E-05	1.7E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.6E-08
215	UCART3	439396	3762742.48	439396.01, 3762742.48	1.21579	1.26131	0.00048	1.10483	4.50E-06	3.17E-07	2.98E-06	4.71E-05	5.49E-05	1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.8E-09	2.8E-08
216	UCART3	439446	3762742.48	439446.01, 3762742.48	1.32033	1.37294	0.00053	1.21317	4.89E-06	3.45E-07	3.29E-06	5.18E-05	6.03E-05	2.1E-08	6.3E-08	5.0E-08	4.3E-08	1.9E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.1E-09	3.1E-08
217	UCART3	439496	3762742.48	439496.01, 3762742.48	1.43841	1.4998	0.00057	1.32958	5.32E-06	3.77E-07	3.53E-06	5.67E-05	6.60E-05	2.3E-08	6.9E-08	5.4E-08	4.7E-08	2.1E-08	0.0E+00	0.0E+00	1.5E-08	1.6E-08	3.3E-09	3.4E-08
218	UCART3	439546	3762742.48	439546.01, 3762742.48	1.5735	1.64551	0.00061	1.48392	5.82E-06	4.14E-07	3.78E-06	6.33E-05	7.33E-05	2.5E-08	7.7E-08	6.1E-08	5.2E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.7E-08	3.7E-09	3.8E-08
219	UCART3	439196	3762792.48	439196.01, 3762792.48	0.8776	0.90447	0.00033	0.77828	3.25E-06	2.27E-07	2.05E-06	3.32E-05	3.87E-05	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	8.9E-09	9.1E-09	2.0E-09	2.0E-08
220	UCART3	439246	3762792.48	439246.01, 3762792.48	0.93972	0.96988	0.00035	0.85482	3.48E-06	2.44E-07	2.17E-06	3.65E-05	4.24E-05	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	9.7E-09	1.0E-08	2.1E-09	2.2E-08
221	UCART3	439296	3762792.48	439296.01, 3762792.48	1.00818	1.04234	0.00038	0.91413	3.73E-06	2.62E-07	2.36E-06	3.90E-05	4.54E-05	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.5E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.3E-08
222	UCART3	439346	3762792.48	439346.01, 3762792.48	1.08462	1.12346	0.0004	0.99087	4.01E-06	2.82E-07	2.48E-06	4.23E-05	4.91E-05	1.7E-08	5.1E-08	4.1E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.2E-08	2.5E-09	2.5E-08
223	UCART3	439396	3762792.48	439396.01, 3762792.48	1.17013	1.21453	0.00043	1.0822	4.33E-06	3.05E-07	2.67E-06	4.62E-05	5.35E-05	1.9E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.3E-08	2.7E-09	2.8E-08
224	UCART3	439446	3762792.48	439446.01, 3762792.48	1.26616	1.31721	0.00046	1.19353	4.69E-06	3.31E-07	2.85E-06	5.09E-05	5.88E-05	2.0E-08	6.1E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.0E-09	3.0E-08
225	UCART3	439496	3762792.48	439496.01, 3762792.48	1.37344	1.43259	0.00049	1.31114	5.08E-06	3.60E-07	3.04E-06	5.59E-05	6.44E-05	2.2E-08	6.7E-08	5.3E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	1.5E-08	1.5E-08	3.3E-09	3.3E-08
226	UCART3	439546	3762792.48	439546.01, 3762792.48	1.49489	1.5638	0.00051	1.46767	5.53E-06	3.93E-07	3.16E-06	6.26E-05	7.17E-05	2.5E-08	7.5E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	1.6E-08	1.7E-08	3.6E-09	3.7E-08
227	UCART3	439196	3762842.48	439196.01, 3762842.48	0.85221	0.87852	0.0003	0.76574	3.15E-06	2.21E-07	1.86E-06	3.27E-05	3.79E-05	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.7E-09	8.9E-09	1.9E-09	2.0E-08
228	UCART3	439246	3762842.48	439246.01, 3762842.48	0.91039	0.93989	0.00032	0.8283	3.37E-06	2.36E-07	1.98E-06	3.53E-05	4.09E-05	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.4E-09	9.7E-09	2.1E-09	2.1E-08
229	UCART3	439296	3762842.48	439296.01, 3762842.48	0.97431	1.00757	0.00034	0.89559	3.61E-06	2.53E-07	2.11E-06	3.82E-05	4.42E-05	1.5E-08	4.6E-08	3.6E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
230	UCART3	439346	3762842.48	439346.01, 3762842.48	1.04508	1.08277	0.00036	0.97252	3.87E-06	2.72E-07	2.23E-06	4.15E-05	4.79E-05	1.7E-08	5.0E-08	4.0E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.5E-08
231	UCART3	439396	3762842.48	439396.01, 3762842.48	1.12352	1.16645	0.00037	1.06025	4.16E-06	2.93E-07	2.29E-06	4.52E-05	5.20E-05	1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.7E-08
232	UCART3	439446	3762842.48	439446.01, 3762842.48	1.21089	1.26002	0.00039	1.16663	4.48E-06	3.17E-07	2.42E-06	4.98E-05	5.70E-05	2.0E-08	6.0E-08	4.7E-08	4.1E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.9E-09	2.9E-08
233	UCART3	439496	3762842.48	439496.01, 3762842.48	1.30768	1.36419	0.0004	1.29149	4.84E-06	3.43E-07	2.48E-06	5.51E-05	6.28E-05	2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.5E-08	3.2E-09	3.2E-08
234	UCART3	439546	3762842.48	439546.01, 3762842.48	1.41613	1.48145	0.00041	1.44725	5.24E-06	3.72E-07	2.54E-06	6.18E-05	6.99E-05	2.4E-08	7.3E-08	5.8E-08	5.0E-08	2.2E-08	0.0E+00	0.0E+00	1.6E-08	1.6

PHASE 2 OPERATIONAL MITIGATED

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	2.51E-07	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	5.15498	5.49642	0.0037	2.66351	1.91E-05	1.38E-06	2.29E-05	1.14E-04	1.57E-04
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	1.99715	2.07916	0.00102	1.49331	7.39E-06	5.23E-07	6.32E-06	6.37E-05	7.80E-05
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	2.25055	2.35049	0.0012	1.64665	8.33E-06	5.91E-07	7.44E-06	7.03E-05	8.66E-05
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	2.55914	2.68302	0.00143	1.82289	9.47E-06	6.74E-07	8.87E-06	7.78E-05	9.68E-05
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	2.94	3.0962	0.00171	2.02432	1.09E-05	7.78E-07	1.06E-05	8.64E-05	1.09E-04
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	3.41805	3.61875	0.00208	2.25264	1.26E-05	9.10E-07	1.29E-05	9.61E-05	1.23E-04
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	4.0295	4.29261	0.00256	2.50823	1.49E-05	1.08E-06	1.59E-05	1.07E-04	1.39E-04
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	4.8312	5.18988	0.00317	2.80464	1.79E-05	1.30E-06	1.97E-05	1.20E-04	1.59E-04
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	1.93214	2.0162	0.00097	1.52456	7.15E-06	5.07E-07	6.01E-06	6.51E-05	7.87E-05
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	2.16811	2.27031	0.00112	1.69088	8.02E-06	5.71E-07	6.94E-06	7.22E-05	8.77E-05
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	2.45224	2.57845	0.00131	1.88447	9.07E-06	6.48E-07	8.12E-06	8.04E-05	9.83E-05
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	2.79882	2.957	0.00154	2.10765	1.04E-05	7.43E-07	9.55E-06	8.99E-05	1.11E-04
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	3.22749	3.42935	0.00181	2.36354	1.19E-05	8.62E-07	1.12E-05	1.01E-04	1.25E-04
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	3.76566	4.0287	0.00214	2.6539	1.39E-05	1.01E-06	1.33E-05	1.13E-04	1.41E-04
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	4.4498	4.80378	0.00253	2.98924	1.65E-05	1.21E-06	1.57E-05	1.28E-04	1.61E-04
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	1.85831	1.9424	0.00089	1.55292	6.88E-06	4.88E-07	5.52E-06	6.63E-05	7.91E-05
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	2.07468	2.17648	0.00101	1.73377	7.68E-06	5.47E-07	6.26E-06	7.40E-05	8.85E-05
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	2.33232	2.45709	0.00116	1.94744	8.63E-06	6.18E-07	7.19E-06	8.31E-05	9.95E-05
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	2.64179	2.79708	0.00132	2.20092	9.78E-06	7.03E-07	8.18E-06	9.39E-05	1.13E-04
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	3.01808	3.21414	0.0015	2.49639	1.12E-05	8.08E-07	9.30E-06	1.07E-04	1.28E-04
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	3.479	3.73144	0.00169	2.84011	1.29E-05	9.38E-07	1.05E-05	1.21E-04	1.45E-04
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	4.04607	4.37884	0.00188	3.22804	1.50E-05	1.10E-06	1.17E-05	1.38E-04	1.65E-04
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	1.77805	1.86071	0.0008	1.57668	6.58E-06	4.68E-07	4.96E-06	6.73E-05	7.93E-05
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	1.97314	2.07281	0.00088	1.76733	7.30E-06	5.21E-07	5.46E-06	7.54E-05	8.87E-05
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	2.2034	2.32449	0.00098	2.00637	8.15E-06	5.84E-07	6.08E-06	8.56E-05	1.00E-04
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	2.47549	2.6245	0.00108	2.29363	9.16E-06	6.60E-07	6.70E-06	9.79E-05	1.14E-04
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	2.7984	2.98437	0.00117	2.63646	1.04E-05	7.50E-07	7.25E-06	1.13E-04	1.31E-04
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	3.18493	3.42014	0.00125	3.05981	1.18E-05	8.60E-07	7.75E-06	1.31E-04	1.51E-04
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	3.64727	3.94906	0.00132	3.54711	1.35E-05	9.93E-07	8.18E-06	1.51E-04	1.74E-04
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	0.65733	0.65387	0.00015	0.51937	2.43E-06	1.64E-07	9.30E-07	2.22E-05	2.57E-05
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	0.68562	0.68115	0.00015	0.53946	2.54E-06	1.71E-07	9.30E-07	2.30E-05	2.67E-05
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	0.71655	0.71099	0.00016	0.56168	2.65E-06	1.79E-07	9.92E-07	2.40E-05	2.78E-05
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	0.74866	0.74187	0.00017	0.58513	2.77E-06	1.86E-07	1.05E-06	2.50E-05	2.90E-05
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	0.78206	0.77393	0.00018	0.61002	2.89E-06	1.95E-07	1.12E-06	2.60E-05	3.02E-05
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	0.81654	0.80695	0.00019	0.63637	3.02E-06	2.03E-07	1.18E-06	2.72E-05	3.16E-05
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	0.85178	0.84063	0.00021	0.66409	3.15E-06	2.11E-07	1.30E-06	2.83E-05	3.30E-05
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	0.88901	0.87623	0.00024	0.69417	3.29E-06	2.20E-07	1.49E-06	2.96E-05	3.46E-05
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	0.92567	0.91114	0.00027	0.72501	3.43E-06	2.29E-07	1.67E-06	3.09E-05	3.63E-05
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	0.68087	0.67802	0.00016	0.53415	2.52E-06	1.70E-07	9.92E-07	2.28E-05	2.65E-05
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	0.71325	0.70942	0.00017	0.55644	2.64E-06	1.78E-07	1.05E-06	2.37E-05	2.76E-05
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	0.74848	0.74354	0.00017	0.58089	2.77E-06	1.87E-07	1.05E-06	2.48E-05	2.88E-05
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	0.78272	0.77643	0.00018	0.60502	2.90E-06	1.95E-07	1.12E-06	2.58E-05	3.00E-05
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	0.81898	0.8112	0.00019	0.63102	3.03E-06	2.04E-07	1.18E-06	2.69E-05	3.13E-05
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	0.85688	0.84746	0.0002	0.6588	3.17E-06	2.13E-07	1.24E-06	2.81E-05	3.27E-05
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	0.89607	0.88486	0.00022	0.68831	3.32E-06	2.22E-07	1.36E-06	2.94E-05	3.43E-05
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	0.93856	0.92545	0.00024	0.72107	3.47E-06	2.33E-07	1.49E-06	3.08E-05	3.60E-05
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	0.98095	0.96579	0.00027	0.75503	3.63E-06	2.43E-07	1.67E-06	3.22E-05	3.78E-05
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	0.70444	0.70231	0.00018	0.54901	2.61E-06	1.77E-07	1.12E-06	2.34E-05	2.73E-05
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	0.73946	0.73635	0.00018	0.57249	2.74E-06	1.85E-07	1.12E-06	2.44E-05	2.85E-05
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	0.77732	0.77307	0.00018	0.59797	2.88E-06	1.94E-07	1.12E-06	2.55E-05	2.97E-05
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	0.81526	0.80961	0.00019	0.62375	3.02E-06	2.04E-07	1.18E-06	2.66E-05	3.10E-05
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	0.85487	0.84761	0.0002	0.65106	3.16E-06	2.13E-07	1.24E-06	2.78E-05	3.24E-05
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	0.89815	0.88911	0.00021	0.68137	3.32E-06	2.23E-07	1.30E-06	2.91E-05	3.39E-05
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	0.94301	0.93197	0.00023	0.71354	3.49E-06	2.34E-07	1.43E-06	3.04E-05	3.56E-05
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	0.98988	0.97664	0.00025	0.74808	3.66E-06	2.45E-07	1.55E-06	3.19E-05	3.74E-05
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	1.0391	1.02348	0.00028	0.78547	3.85E-06	2.57E-07	1.74E-06	3.35E-05	3.94E-05
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	0.7279	0.72658	0.00019	0.56391	2.69E-06	1.83E-07	1.18E-06	2.41E-05	2.81E-05
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	0.76525	0.76297	0.0002	0.58833	2.83E-06	1.92E-07	1.24E-06	2.51E-05	2.94E-05
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	0.80623	0.80282	0.0002	0.61514	2.98E-06	2.02E-07	1.24E-06	2.62E-05	3.07E-05
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	0.84922	0.84443	0.00021	0.64338	3.14E-06	2.12E-07	1.30E-06	2.75E-05	3.21E-05
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	0.89316	0.88669	0.00021	0.6725	3.31E-06	2.23E-07	1.30E-06	2.87E-05	3.35E-05
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	0.94194	0.93357	0.00022	0.7052	3.49E-06	2.35E-07	1.36E-06	3.01E-05	3.52E-05
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	0.99335	0.9828	0.00024	0.74029	3.68E-06	2.47E-07	1.49E-06	3.16E-05	3.70E-05
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	1.04561	1.03256	0.00026	0.77694	3.87E-06	2.60E-07	1.61E-06	3.32E-05	3.89E-05
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	1.10233	1.08654	0.00029	0.81773	4.08E-06	2.73E-07	1.80E-06	3.49E-05	4.10E-05
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	0.7508	0.75037	0.00021	0.5786	2.78E-06	1.89E-07	1.30E-06	2.47E-05	2.90E-05
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	0.79169	0.79038	0.00022	0.60476	2.93E-06	1.99E-07	1.36E-06	2.58E-05	3.03E-05
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	0.83638	0.834	0.00022	0.63325	3.09E-06	2.10E-07	1.36E-06	2.70E-05	3.17E-05
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	0.88398	0.88027	0.00023	0.66355	3.27E-06	2.21E-07	1.43E-06	2.83E-05	3.32E-05
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	0.93374	0.92835	0.00023	0.69532	3.46E-06	2.33E-07	1.43E-06	2.97E-05	3.48E-05
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	0.98806	0.98069	0.00024	0.73024	3.66E-06	2.47E-07	1.49E-06	3.12E-05	3.66E-05
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	1.04523	1.03551	0.00025	0.76748	3.87E-06	2.60E-07	1.55E-06	3.27E-05	3.84E-05
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	1.10653	1.0941	0.00027	0.80814	4.09E-06	2.75E-07	1.67E-06	3.45E-05	4.05E-05
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	1.1708	1.15525	0.0003	0.85187	4.33E-06	2.90E-07	1.86E-06	3.64E-05	4.28E-05
315	UCART5	439152.4	3761698.92	439152.35, 3761698.92	0.77364	0.77417	0.00023	0.59342	2.86E-06	1.95E-07	1.43E-06	2.53E-05	2.98E-05
316	UCART5	439202.4	3761698.92	439202.35, 3761698.92	0.81743	0.81716	0.00024	0.6209	3.02E-06	2.05E-07	1.49E-06	2.65E-05	3.12E-05
317	UCART5	439252.4	3761698.92	439252.35, 3761698.92	0.86469	0.8634	0.00025	0.65033	3.20E-06	2.17E-07	1.55E-06	2.78E-05	3.27E-05
318	UCART5	439302.4	3761698.92	439302.35, 3761698.92	0.9171	0.91458	0.00025	0.6828	3.39E-06	2.30E-07	1.55E-06	2.91E-05	3.43E-05
319	UCART5	439352.4	3761698.92	439352.35, 3761698.92	0.97383	0.96975	0.00026	0.71784	3.60E-06	2.44E-07	1.61E-06	3.06E-05	3.61E-05
320	UCART5	439402.4	3761698.92	439402.35, 3761698.92	1.03531	1.0293	0.00027	0.75585	3.83E-06	2.59E-07	1.67E-06	3.23E-05	3.80E-05

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
241	UCART4	5.4E-08	1.6E-07	1.3E-07	1.1E-07	5.0E-08	0.0E+00	0.0E+00	3.6E-08	3.7E-08	8.0E-09	8.1E-08
242	UCART4	2.7E-08	8.1E-08	6.4E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	1.8E-08	1.8E-08	4.0E-09	4.0E-08
243	UCART4	3.0E-08	9.1E-08	7.2E-08	6.2E-08	2.8E-08	0.0E+00	0.0E+00	2.0E-08	2.0E-08	4.4E-09	4.5E-08
244	UCART4	3.4E-08	1.0E-07	8.0E-08	6.9E-08	3.1E-08	0.0E+00	0.0E+00	2.2E-08	2.3E-08	4.9E-09	5.0E-08
245	UCART4	3.8E-08	1.1E-07	9.0E-08	7.8E-08	3.5E-08	0.0E+00	0.0E+00	2.5E-08	2.6E-08	5.5E-09	5.6E-08
246	UCART4	4.2E-08	1.3E-07	1.0E-07	8.8E-08	3.9E-08	0.0E+00	0.0E+00	2.8E-08	2.9E-08	6.2E-09	6.3E-08
247	UCART4	4.8E-08	1.5E-07	1.1E-07	9.9E-08	4.5E-08	0.0E+00	0.0E+00	3.2E-08	3.3E-08	7.0E-09	7.2E-08
248	UCART4	5.5E-08	1.7E-07	1.3E-07	1.1E-07	5.1E-08	0.0E+00	0.0E+00	3.6E-08	3.7E-08	8.0E-09	8.2E-08
249	UCART4	2.7E-08	8.2E-08	6.5E-08	5.6E-08	2.5E-08	0.0E+00	0.0E+00	1.8E-08	1.9E-08	4.0E-09	4.1E-08
250	UCART4	3.0E-08	9.2E-08	7.2E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	2.0E-08	2.1E-08	4.4E-09	4.5E-08
251	UCART4	3.4E-08	1.0E-07	8.1E-08	7.0E-08	3.2E-08	0.0E+00	0.0E+00	2.3E-08	2.3E-08	5.0E-09	5.1E-08
252	UCART4	3.8E-08	1.2E-07	9.1E-08	7.9E-08	3.6E-08	0.0E+00	0.0E+00	2.5E-08	2.6E-08	5.6E-09	5.7E-08
253	UCART4	4.3E-08	1.3E-07	1.0E-07	8.9E-08	4.0E-08	0.0E+00	0.0E+00	2.9E-08	2.9E-08	6.3E-09	6.4E-08
254	UCART4	4.9E-08	1.5E-07	1.2E-07	1.0E-07	4.5E-08	0.0E+00	0.0E+00	3.2E-08	3.3E-08	7.2E-09	7.3E-08
255	UCART4	5.6E-08	1.7E-07	1.3E-07	1.1E-07	5.2E-08	0.0E+00	0.0E+00	3.7E-08	3.8E-08	8.2E-09	8.3E-08
256	UCART4	2.7E-08	8.3E-08	6.5E-08	5.7E-08	2.5E-08	0.0E+00	0.0E+00	1.8E-08	1.9E-08	4.0E-09	4.1E-08
257	UCART4	3.1E-08	9.2E-08	7.3E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	2.0E-08	2.1E-08	4.5E-09	4.6E-08
258	UCART4	3.4E-08	1.0E-07	8.2E-08	7.1E-08	3.2E-08	0.0E+00	0.0E+00	2.3E-08	2.3E-08	5.0E-09	5.1E-08
259	UCART4	3.9E-08	1.2E-07	9.3E-08	8.0E-08	3.6E-08	0.0E+00	0.0E+00	2.6E-08	2.7E-08	5.7E-09	5.8E-08
260	UCART4	4.4E-08	1.3E-07	1.1E-07	9.1E-08	4.1E-08	0.0E+00	0.0E+00	2.9E-08	3.0E-08	6.5E-09	6.6E-08
261	UCART4	5.0E-08	1.5E-07	1.2E-07	1.0E-07	4.7E-08	0.0E+00	0.0E+00	3.3E-08	3.4E-08	7.4E-09	7.5E-08
262	UCART4	5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	3.8E-08	3.9E-08	8.4E-09	8.5E-08
263	UCART4	2.7E-08	8.3E-08	6.5E-08	5.7E-08	2.5E-08	0.0E+00	0.0E+00	1.8E-08	1.9E-08	4.0E-09	4.1E-08
264	UCART4	3.1E-08	9.3E-08	7.3E-08	6.3E-08	2.8E-08	0.0E+00	0.0E+00	2.0E-08	2.1E-08	4.5E-09	4.6E-08
265	UCART4	3.5E-08	1.0E-07	8.3E-08	7.2E-08	3.2E-08	0.0E+00	0.0E+00	2.3E-08	2.4E-08	5.1E-09	5.2E-08
266	UCART4	4.0E-08	1.2E-07	9.4E-08	8.2E-08	3.7E-08	0.0E+00	0.0E+00	2.6E-08	2.7E-08	5.8E-09	5.9E-08
267	UCART4	4.5E-08	1.4E-07	1.1E-07	9.3E-08	4.2E-08	0.0E+00	0.0E+00	3.0E-08	3.1E-08	6.6E-09	6.8E-08
268	UCART4	5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	3.5E-08	3.6E-08	7.6E-09	7.8E-08
269	UCART4	6.0E-08	1.8E-07	1.4E-07	1.2E-07	5.6E-08	0.0E+00	0.0E+00	4.0E-08	4.1E-08	8.8E-09	9.0E-08
270	UCART5	8.9E-09	2.7E-08	2.1E-08	1.8E-08	8.3E-09	0.0E+00	0.0E+00	5.9E-09	6.1E-09	1.3E-09	1.3E-08
271	UCART5	9.2E-09	2.8E-08	2.2E-08	1.9E-08	8.6E-09	0.0E+00	0.0E+00	6.1E-09	6.3E-09	1.4E-09	1.4E-08
272	UCART5	9.6E-09	2.9E-08	2.3E-08	2.0E-08	8.9E-09	0.0E+00	0.0E+00	6.4E-09	6.6E-09	1.4E-09	1.4E-08
273	UCART5	1.0E-08	3.0E-08	2.4E-08	2.1E-08	9.3E-09	0.0E+00	0.0E+00	6.7E-09	6.8E-09	1.5E-09	1.5E-08
274	UCART5	1.0E-08	3.2E-08	2.5E-08	2.2E-08	9.7E-09	0.0E+00	0.0E+00	6.9E-09	7.1E-09	1.5E-09	1.6E-08
275	UCART5	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	7.2E-09	7.4E-09	1.6E-09	1.6E-08
276	UCART5	1.1E-08	3.4E-08	2.7E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.6E-09	7.8E-09	1.7E-09	1.7E-08
277	UCART5	1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	7.9E-09	8.2E-09	1.8E-09	1.8E-08
278	UCART5	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.3E-09	8.5E-09	1.8E-09	1.9E-08
279	UCART5	9.2E-09	2.8E-08	2.2E-08	1.9E-08	8.5E-09	0.0E+00	0.0E+00	6.1E-09	6.2E-09	1.3E-09	1.4E-08
280	UCART5	9.6E-09	2.9E-08	2.3E-08	2.0E-08	8.9E-09	0.0E+00	0.0E+00	6.3E-09	6.5E-09	1.4E-09	1.4E-08
281	UCART5	1.0E-08	3.0E-08	2.4E-08	2.1E-08	9.3E-09	0.0E+00	0.0E+00	6.6E-09	6.8E-09	1.5E-09	1.5E-08
282	UCART5	1.0E-08	3.1E-08	2.5E-08	2.1E-08	9.6E-09	0.0E+00	0.0E+00	6.9E-09	7.1E-09	1.5E-09	1.5E-08
283	UCART5	1.1E-08	3.3E-08	2.6E-08	2.2E-08	1.0E-08	0.0E+00	0.0E+00	7.2E-09	7.4E-09	1.6E-09	1.6E-08
284	UCART5	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.1E-08	0.0E+00	0.0E+00	7.5E-09	7.7E-09	1.7E-09	1.7E-08
285	UCART5	1.2E-08	3.6E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.9E-09	8.1E-09	1.7E-09	1.8E-08
286	UCART5	1.2E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.3E-09	8.5E-09	1.8E-09	1.9E-08
287	UCART5	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.7E-09	8.9E-09	1.9E-09	1.9E-08
288	UCART5	9.5E-09	2.9E-08	2.3E-08	2.0E-08	8.8E-09	0.0E+00	0.0E+00	6.3E-09	6.4E-09	1.4E-09	1.4E-08
289	UCART5	9.9E-09	3.0E-08	2.4E-08	2.0E-08	9.1E-09	0.0E+00	0.0E+00	6.5E-09	6.7E-09	1.4E-09	1.5E-08
290	UCART5	1.0E-08	3.1E-08	2.5E-08	2.1E-08	9.5E-09	0.0E+00	0.0E+00	6.8E-09	7.0E-09	1.5E-09	1.5E-08
291	UCART5	1.1E-08	3.2E-08	2.6E-08	2.2E-08	1.0E-08	0.0E+00	0.0E+00	7.1E-09	7.3E-09	1.6E-09	1.6E-08
292	UCART5	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	7.4E-09	7.6E-09	1.6E-09	1.7E-08
293	UCART5	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.8E-09	8.0E-09	1.7E-09	1.8E-08
294	UCART5	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.2E-09	8.4E-09	1.8E-09	1.8E-08
295	UCART5	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.6E-09	8.8E-09	1.9E-09	1.9E-08
296	UCART5	1.4E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	9.0E-09	9.3E-09	2.0E-09	2.0E-08
297	UCART5	9.7E-09	2.9E-08	2.3E-08	2.0E-08	9.0E-09	0.0E+00	0.0E+00	6.5E-09	6.6E-09	1.4E-09	1.5E-08
298	UCART5	1.0E-08	3.1E-08	2.4E-08	2.1E-08	9.4E-09	0.0E+00	0.0E+00	6.7E-09	6.9E-09	1.5E-09	1.5E-08
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PHASE 2 OPERATIONAL MITIGATED

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	2.51E-07	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	1.09724	1.08873	0.00028	0.79443	4.06E-06	2.74E-07	1.74E-06	3.39E-05	4.00E-05
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	1.16785	1.15647	0.00029	0.83887	4.32E-06	2.91E-07	1.80E-06	3.58E-05	4.22E-05
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	1.24229	1.22748	0.00032	0.88662	4.60E-06	3.09E-07	1.98E-06	3.78E-05	4.47E-05
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	0.79559	0.79711	0.00025	0.60784	2.94E-06	2.00E-07	1.55E-06	2.59E-05	3.06E-05
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	0.84317	0.84406	0.00026	0.63727	3.12E-06	2.12E-07	1.61E-06	2.72E-05	3.21E-05
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	0.89336	0.89332	0.00027	0.66787	3.31E-06	2.25E-07	1.67E-06	2.85E-05	3.37E-05
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	0.95056	0.94943	0.00028	0.70248	3.52E-06	2.39E-07	1.74E-06	3.00E-05	3.55E-05
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	1.01203	1.00944	0.00029	0.73934	3.74E-06	2.54E-07	1.80E-06	3.15E-05	3.73E-05
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	1.07908	1.07462	0.0003	0.77936	3.99E-06	2.70E-07	1.86E-06	3.33E-05	3.94E-05
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	1.15012	1.14321	0.00031	0.82174	4.26E-06	2.87E-07	1.92E-06	3.51E-05	4.15E-05
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	1.22616	1.2162	0.00032	0.86738	4.54E-06	3.06E-07	1.98E-06	3.70E-05	4.38E-05
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	1.31222	1.29863	0.00034	0.91956	4.86E-06	3.26E-07	2.11E-06	3.92E-05	4.65E-05
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	0.81725	0.81985	0.00028	0.6223	3.02E-06	2.06E-07	1.74E-06	2.66E-05	3.15E-05
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	0.86864	0.87077	0.00029	0.65371	3.21E-06	2.19E-07	1.80E-06	2.79E-05	3.31E-05
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	0.9236	0.92501	0.0003	0.6867	3.42E-06	2.33E-07	1.86E-06	2.93E-05	3.48E-05
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	0.98573	0.98625	0.00031	0.72352	3.65E-06	2.48E-07	1.92E-06	3.09E-05	3.67E-05
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	1.05082	1.04997	0.00032	0.76146	3.89E-06	2.64E-07	1.98E-06	3.25E-05	3.86E-05
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	1.12364	1.12104	0.00033	0.80354	4.16E-06	2.82E-07	2.05E-06	3.43E-05	4.08E-05
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	1.20525	1.20044	0.00035	0.8504	4.46E-06	3.02E-07	2.17E-06	3.63E-05	4.32E-05
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	1.28906	1.28115	0.00036	0.89838	4.77E-06	3.22E-07	2.23E-06	3.83E-05	4.57E-05
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	1.38704	1.37543	0.00038	0.95466	5.13E-06	3.46E-07	2.36E-06	4.07E-05	4.86E-05
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	0.83851	0.84225	0.0003	0.63672	3.10E-06	2.12E-07	1.86E-06	2.72E-05	3.23E-05
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	0.8929	0.89633	0.00032	0.66963	3.30E-06	2.25E-07	1.98E-06	2.86E-05	3.41E-05
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	0.9513	0.95416	0.00033	0.70418	3.52E-06	2.40E-07	2.05E-06	3.00E-05	3.59E-05
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	1.01728	1.01944	0.00035	0.74259	3.76E-06	2.56E-07	2.17E-06	3.17E-05	3.79E-05
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	1.08791	1.08893	0.00036	0.78286	4.03E-06	2.74E-07	2.23E-06	3.34E-05	3.99E-05
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	1.17028	1.16994	0.00038	0.82926	4.33E-06	2.94E-07	2.36E-06	3.54E-05	4.24E-05
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	1.25859	1.2562	0.00039	0.87819	4.66E-06	3.16E-07	2.42E-06	3.75E-05	4.49E-05
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	1.35209	1.34676	0.00041	0.92943	5.00E-06	3.39E-07	2.54E-06	3.97E-05	4.75E-05
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	1.46282	1.45391	0.00043	0.98993	5.41E-06	3.65E-07	2.67E-06	4.22E-05	5.07E-05
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	0.85943	0.8644	0.00032	0.65117	3.18E-06	2.17E-07	1.98E-06	2.78E-05	3.32E-05
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	0.91652	0.92133	0.00034	0.68542	3.39E-06	2.32E-07	2.11E-06	2.92E-05	3.50E-05
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	0.97859	0.98304	0.00036	0.72175	3.62E-06	2.47E-07	2.23E-06	3.08E-05	3.69E-05
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	1.05074	1.05482	0.00038	0.76326	3.89E-06	2.65E-07	2.36E-06	3.26E-05	3.91E-05
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	1.12826	1.13155	0.0004	0.80668	4.18E-06	2.84E-07	2.48E-06	3.44E-05	4.14E-05
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	1.21472	1.21684	0.00042	0.85408	4.49E-06	3.06E-07	2.60E-06	3.64E-05	4.38E-05
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	1.3144	1.31499	0.00045	0.90777	4.86E-06	3.31E-07	2.79E-06	3.87E-05	4.67E-05
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	1.42264	1.4208	0.00047	0.96488	5.26E-06	3.57E-07	2.91E-06	4.12E-05	4.97E-05
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	1.54376	1.53852	0.00049	1.02791	5.71E-06	3.87E-07	3.04E-06	4.39E-05	5.30E-05
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	0.87889	0.88512	0.00035	0.66488	3.25E-06	2.22E-07	2.17E-06	2.84E-05	3.40E-05
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	0.93882	0.94506	0.00037	0.70064	3.47E-06	2.38E-07	2.29E-06	2.99E-05	3.59E-05
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	1.00438	1.01047	0.00039	0.73872	3.72E-06	2.54E-07	2.42E-06	3.15E-05	3.79E-05
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	1.08158	1.08764	0.00042	0.78274	4.00E-06	2.73E-07	2.60E-06	3.34E-05	4.03E-05
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	1.1658	1.17147	0.00045	0.82928	4.31E-06	2.94E-07	2.79E-06	3.54E-05	4.28E-05
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	1.25844	1.26328	0.00047	0.879	4.66E-06	3.18E-07	2.91E-06	3.75E-05	4.54E-05
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	1.3671	1.37092	0.0005	0.93609	5.06E-06	3.45E-07	3.10E-06	3.99E-05	4.84E-05
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	1.48792	1.48995	0.00054	0.99783	5.51E-06	3.75E-07	3.35E-06	4.26E-05	5.18E-05
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	1.62371	1.62295	0.00057	1.06557	6.01E-06	4.08E-07	3.53E-06	4.55E-05	5.54E-05
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	0.89707	0.9046	0.00037	0.67803	3.32E-06	2.27E-07	2.29E-06	2.89E-05	3.48E-05
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	0.95948	0.96719	0.0004	0.71514	3.55E-06	2.43E-07	2.48E-06	3.05E-05	3.68E-05
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	1.02856	1.03635	0.00043	0.75507	3.81E-06	2.60E-07	2.67E-06	3.22E-05	3.90E-05
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	1.11039	1.1185	0.00046	0.80145	4.11E-06	2.81E-07	2.85E-06	3.42E-05	4.14E-05
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	1.20128	1.20947	0.00049	0.85126	4.45E-06	3.04E-07	3.04E-06	3.63E-05	4.41E-05
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	1.30011	1.30787	0.00053	0.90342	4.81E-06	3.29E-07	3.29E-06	3.86E-05	4.70E-05
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	1.41514	1.42231	0.00057	0.96248	5.24E-06	3.58E-07	3.53E-06	4.11E-05	5.02E-05
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	1.54589	1.55189	0.00061	1.02748	5.72E-06	3.90E-07	3.78E-06	4.38E-05	5.37E-05
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	1.69619	1.70024	0.00065	1.09992	6.28E-06	4.27E-07	4.03E-06	4.69E-05	5.77E-05
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	0.91371	0.9226	0.00039	0.69051	3.38E-06	2.32E-07	2.42E-06	2.95E-05	3.55E-05
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	0.98042	0.98983	0.00042	0.73035	3.63E-06	2.49E-07	2.60E-06	3.12E-05	3.76E-05
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	1.05484	1.06475	0.00046	0.77348	3.90E-06	2.68E-07	2.85E-06	3.30E-05	4.00E-05
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	1.13873	1.14913	0.00049	0.8206	4.21E-06	2.89E-07	3.04E-06	3.50E-05	4.26E-05
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	1.23335	1.24413	0.00054	0.87194	4.56E-06	3.13E-07	3.35E-06	3.72E-05	4.54E-05
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	1.3398	1.35073	0.00058	0.9276	4.96E-06	3.40E-07	3.60E-06	3.96E-05	4.85E-05
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	1.46311	1.4741	0.00063	0.98992	5.41E-06	3.71E-07	3.91E-06	4.22E-05	5.19E-05
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	1.60433	1.61494	0.00069	1.05856	5.94E-06	4.06E-07	4.28E-06	4.52E-05	5.58E-05
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	1.76708	1.77662	0.00075	1.1346	6.54E-06	4.47E-07	4.65E-06	4.84E-05	6.01E-05
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	0.94013	0.92383	0.00031	0.74814	3.48E-06	2.32E-07	1.92E-06	3.19E-05	3.76E-05
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	0.97626	0.95814	0.00034	0.7817	3.61E-06	2.41E-07	2.11E-06	3.34E-05	3.93E-05
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	1.01228	0.99218	0.00038	0.81656	3.75E-06	2.49E-07	2.36E-06	3.48E-05	4.12E-05
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	1.0483	1.02601	0.0004	0.85291	3.88E-06	2.58E-07	2.48E-06	3.64E-05	4.30E-05
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	1.08288	1.05819	0.00042	0.88994	4.01E-06	2.66E-07	2.60E-06	3.80E-05	4.49E-05
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	1.11868	1.09136	0.00043	0.92983	4.14E-06	2.74E-07	2.67E-06	3.97E-05	4.68E-05
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	0.99972	0.98234	0.00032	0.78152	3.70E-06	2.47E-07	1.98E-06	3.33E-05	3.93E-05
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	1.04048	1.02097	0.00036	0.81814	3.85E-06	2.57E-07	2.23E-06	3.49E-05	4.13E-05
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	1.08188	1.06007	0.0004	0.85688	4.00E-06	2.66E-07	2.48E-06	3.66E-05	4.33E-05
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	1.12343	1.0991	0.00043	0.89755	4.16E-06	2.76E-07	2.67E-06	3.83E-05	4.54E-05
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	1.1637	1.13658	0.00046	0.93939	4.31E-06	2.86E-07	2.85E-06	4.01E-05	4.75E-05
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	1.20611	1.17592	0.00047	0.98513	4.46E-06	2.96E-07	2.91E-06	4.20E-05	4.97E-05
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	1.06416	1.04575	0.00032	0.81614	3.94E-06	2.63E-07	1.98E-06	3.48E-05	4.10E-05
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	1.11141	1.09048	0.00037	0.85672	4.11E-06	2.74E-07	2.29E-06	3.66E-05	4.32E-05

Discrete Receptor ID		Residential Dose					Risk by Age Group					
		3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
321	UCART5	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.2E-09	9.4E-09	2.0E-09	2.1E-08
322	UCART5	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	9.7E-09	9.9E-09	2.1E-09	2.2E-08
323	UCART5	1.5E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.3E-08
324	UCART5	1.1E-08	3.2E-08	2.5E-08	2.2E-08	9.8E-09	0.0E+00	0.0E+00	7.0E-09	7.2E-09	1.6E-09	1.6E-08
325	UCART5	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	7.4E-09	7.6E-09	1.6E-09	1.7E-08
326	UCART5	1.2E-08	3.5E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.7E-09	7.9E-09	1.7E-09	1.7E-08
327	UCART5	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.1E-09	8.4E-09	1.8E-09	1.8E-08
328	UCART5	1.3E-08	3.9E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.6E-09	8.8E-09	1.9E-09	1.9E-08
329	UCART5	1.4E-08	4.1E-08	3.3E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	9.0E-09	9.3E-09	2.0E-09	2.0E-08
330	UCART5	1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	9.5E-09	9.8E-09	2.1E-09	2.1E-08
331	UCART5	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
332	UCART5	1.6E-08	4.9E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
333	UCART5	1.1E-08	3.3E-08	2.6E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	7.2E-09	7.4E-09	1.6E-09	1.6E-08
334	UCART5	1.1E-08	3.5E-08	2.7E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.6E-09	7.8E-09	1.7E-09	1.7E-08
335	UCART5	1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.0E-09	8.2E-09	1.8E-09	1.8E-08
336	UCART5	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.4E-09	8.6E-09	1.9E-09	1.9E-08
337	UCART5	1.3E-08	4.0E-08	3.2E-08	2.8E-08	1.2E-08	0.0E+00	0.0E+00	8.9E-09	9.1E-09	2.0E-09	2.0E-08
338	UCART5	1.4E-08	4.3E-08	3.4E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.4E-09	9.6E-09	2.1E-09	2.1E-08
339	UCART5	1.5E-08	4.5E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	9.9E-09	1.0E-08	2.2E-09	2.2E-08
340	UCART5	1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.4E-08
341	UCART5	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.5E-09	2.5E-08
342	UCART5	1.1E-08	3.4E-08	2.7E-08	2.3E-08	1.0E-08	0.0E+00	0.0E+00	7.4E-09	7.6E-09	1.6E-09	1.7E-08
343	UCART5	1.2E-08	3.6E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.8E-09	8.0E-09	1.7E-09	1.8E-08
344	UCART5	1.2E-08	3.7E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.2E-09	8.5E-09	1.8E-09	1.9E-08
345	UCART5	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.7E-09	8.9E-09	1.9E-09	2.0E-08
346	UCART5	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.2E-09	9.4E-09	2.0E-09	2.1E-08
347	UCART5	1.5E-08	4.4E-08	3.5E-08	3.0E-08	1.4E-08	0.0E+00	0.0E+00	9.7E-09	1.0E-08	2.1E-09	2.2E-08
348	UCART5	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.3E-08
349	UCART5	1.6E-08	5.0E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.5E-08
350	UCART5	1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.6E-08
351	UCART5	1.1E-08	3.5E-08	2.7E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.6E-09	7.8E-09	1.7E-09	1.7E-08
352	UCART5	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.0E-09	8.2E-09	1.8E-09	1.8E-08
353	UCART5	1.3E-08	3.9E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.5E-09	8.7E-09	1.9E-09	1.9E-08
354	UCART5	1.4E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	9.0E-09	9.2E-09	2.0E-09	2.0E-08
355	UCART5	1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	9.5E-09	9.8E-09	2.1E-09	2.1E-08
356	UCART5	1.5E-08	4.6E-08	3.6E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
357	UCART5	1.6E-08	4.9E-08	3.9E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
358	UCART5	1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.2E-08	2.5E-09	2.6E-08
359	UCART5	1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.7E-09	2.7E-08
360	UCART5	1.2E-08	3.6E-08	2.8E-08	2.4E-08	1.1E-08	0.0E+00	0.0E+00	7.8E-09	8.0E-09	1.7E-09	1.8E-08
361	UCART5	1.2E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.2E-09	8.5E-09	1.8E-09	1.9E-08
362	UCART5	1.3E-08	4.0E-08	3.1E-08	2.7E-08	1.2E-08	0.0E+00	0.0E+00	8.7E-09	8.9E-09	1.9E-09	2.0E-08
363	UCART5	1.4E-08	4.2E-08	3.3E-08	2.9E-08	1.3E-08	0.0E+00	0.0E+00	9.2E-09	9.5E-09	2.0E-09	2.1E-08
364	UCART5	1.5E-08	4.5E-08	3.5E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	9.8E-09	1.0E-08	2.2E-09	2.2E-08
365	UCART5	1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.5E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.3E-08
366	UCART5	1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.5E-09	2.5E-08
367	UCART5	1.8E-08	5.4E-08	4.3E-08	3.7E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.7E-08
368	UCART5	1.9E-08	5.8E-08	4.6E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.8E-09	2.9E-08
369	UCART5	1.2E-08	3.6E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.0E-09	8.2E-09	1.8E-09	1.8E-08
370	UCART5	1.3E-08	3.8E-08	3.0E-08	2.6E-08	1.2E-08	0.0E+00	0.0E+00	8.4E-09	8.7E-09	1.9E-09	1.9E-08
371	UCART5	1.3E-08	4.1E-08	3.2E-08	2.8E-08	1.3E-08	0.0E+00	0.0E+00	8.9E-09	9.2E-09	2.0E-09	2.0E-08
372	UCART5	1.4E-08	4.3E-08	3.4E-08	3.0E-08	1.3E-08	0.0E+00	0.0E+00	9.5E-09	9.8E-09	2.1E-09	2.1E-08
373	UCART5	1.5E-08	4.6E-08	3.6E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.0E-08	2.2E-09	2.3E-08
374	UCART5	1.6E-08	4.9E-08	3.9E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.4E-08
375	UCART5	1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.5E-09	2.6E-08
376	UCART5	1.9E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.3E-08	2.7E-09	2.8E-08
377	UCART5	2.0E-08	6.0E-08	4.8E-08	4.1E-08	1.9E-08	0.0E+00	0.0E+00	1.3E-08	1.4E-08	2.9E-09	3.0E-08
378	UCART5	1.2E-08	3.7E-08	2.9E-08	2.5E-08	1.1E-08	0.0E+00	0.0E+00	8.2E-09	8.4E-09	1.8E-09	1.8E-08

PHASE 2 OPERATIONAL MITIGATED

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	2.51E-07	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	1.15939	1.13575	0.00042	0.8998	4.29E-06	2.85E-07	2.60E-06	3.84E-05	4.56E-05
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	1.20877	1.18217	0.00046	0.94606	4.47E-06	2.97E-07	2.85E-06	4.04E-05	4.80E-05
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	1.25637	1.22651	0.0005	0.99366	4.65E-06	3.08E-07	3.10E-06	4.24E-05	5.05E-05
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	1.30541	1.27196	0.00052	1.04517	4.83E-06	3.20E-07	3.22E-06	4.46E-05	5.30E-05
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	1.13497	1.11567	0.00033	0.8528	4.20E-06	2.80E-07	2.05E-06	3.64E-05	4.29E-05
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	1.18985	1.16754	0.00038	0.89755	4.40E-06	2.93E-07	2.36E-06	3.83E-05	4.54E-05
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	1.24607	1.22053	0.00043	0.94557	4.61E-06	3.07E-07	2.67E-06	4.03E-05	4.79E-05
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	1.304	1.27494	0.00049	0.99741	4.83E-06	3.20E-07	3.04E-06	4.26E-05	5.07E-05
409	UCART6	439816.6	3761570.65	439816.61, 3761570.65	1.36121	1.32829	0.00054	1.05192	5.04E-06	3.34E-07	3.35E-06	4.49E-05	5.36E-05
410	UCART6	439866.6	3761570.65	439866.61, 3761570.65	1.4175	1.38031	0.00058	1.10942	5.25E-06	3.47E-07	3.60E-06	4.73E-05	5.65E-05
411	UCART7	440451.1	3762893.83	440451.14, 3762893.83	2.67191	2.89373	0.00146	14.65552	9.89E-06	7.27E-07	9.05E-06	6.25E-04	6.45E-04
412	UCART7	440501.1	3762893.83	440501.14, 3762893.83	2.64169	2.89724	0.0018	10.27984	9.78E-06	7.28E-07	1.12E-05	4.39E-04	4.60E-04
413	UCART7	440551.1	3762893.83	440551.14, 3762893.83	2.63015	2.89805	0.00213	7.89501	9.73E-06	7.28E-07	1.32E-05	3.37E-04	3.61E-04
414	UCART7	440601.1	3762893.83	440601.14, 3762893.83	2.59246	2.82528	0.00239	6.39368	9.59E-06	7.10E-07	1.48E-05	2.73E-04	2.98E-04
415	UCART7	440651.1	3762893.83	440651.14, 3762893.83	2.56329	2.79862	0.00257	5.36676	9.49E-06	7.03E-07	1.59E-05	2.29E-04	2.55E-04
416	UCART7	440701.1	3762893.83	440701.14, 3762893.83	2.54932	2.77504	0.00265	4.62116	9.43E-06	6.98E-07	1.64E-05	1.97E-04	2.24E-04
417	UCART7	440751.1	3762893.83	440751.14, 3762893.83	2.55171	2.76694	0.00267	4.06496	9.44E-06	6.95E-07	1.66E-05	1.73E-04	2.00E-04
418	UCART7	440801.1	3762893.83	440801.14, 3762893.83	2.53874	2.72559	0.00264	3.6235	9.39E-06	6.85E-07	1.64E-05	1.55E-04	1.81E-04
419	UCART7	440851.1	3762893.83	440851.14, 3762893.83	2.5352	2.68265	0.00259	3.27627	9.38E-06	6.74E-07	1.61E-05	1.40E-04	1.66E-04
420	UCART7	440451.1	3762943.83	440451.14, 3762943.83	2.23033	2.37988	0.00105	10.22395	8.25E-06	5.98E-07	6.51E-06	4.36E-04	4.52E-04
421	UCART7	440501.1	3762943.83	440501.14, 3762943.83	2.1803	2.34107	0.00129	8.15619	8.07E-06	5.88E-07	8.00E-06	3.48E-04	3.65E-04
422	UCART7	440551.1	3762943.83	440551.14, 3762943.83	2.18141	2.36249	0.00155	6.67611	8.07E-06	5.94E-07	9.61E-06	2.85E-04	3.03E-04
423	UCART7	440601.1	3762943.83	440601.14, 3762943.83	2.14829	2.30225	0.00177	5.59472	7.95E-06	5.79E-07	1.10E-05	2.39E-04	2.58E-04
424	UCART7	440651.1	3762943.83	440651.14, 3762943.83	2.145	2.32338	0.00195	4.80429	7.94E-06	5.84E-07	1.21E-05	2.05E-04	2.26E-04
425	UCART7	440701.1	3762943.83	440701.14, 3762943.83	2.14593	2.31996	0.00207	4.20043	7.94E-06	5.83E-07	1.28E-05	1.79E-04	2.01E-04
426	UCART7	440751.1	3762943.83	440751.14, 3762943.83	2.16784	2.33767	0.00213	3.73688	8.02E-06	5.88E-07	1.32E-05	1.59E-04	1.81E-04
427	UCART7	440801.1	3762943.83	440801.14, 3762943.83	2.14433	2.30202	0.00213	3.34932	7.93E-06	5.79E-07	1.32E-05	1.43E-04	1.65E-04
428	UCART7	440851.1	3762943.83	440851.14, 3762943.83	2.12324	2.27351	0.0021	3.03108	7.86E-06	5.71E-07	1.30E-05	1.29E-04	1.51E-04
429	UCART8	441116.7	3763135.31	441116.67, 3763135.31	1.24246	1.30675	0.00102	1.55316	4.60E-06	3.28E-07	6.32E-06	6.63E-05	7.75E-05
430	UCART8	441166.7	3763135.31	441166.67, 3763135.31	1.24294	1.30349	0.00101	1.48478	4.60E-06	3.28E-07	6.26E-06	6.34E-05	7.45E-05
431	UCART8	441116.7	3763185.31	441116.67, 3763185.31	1.10606	1.1626	0.0009	1.43264	4.09E-06	2.92E-07	5.58E-06	6.11E-05	7.11E-05
432	UCART8	441166.7	3763185.31	441166.67, 3763185.31	1.11086	1.16536	0.00088	1.37624	4.11E-06	2.93E-07	5.46E-06	5.87E-05	6.86E-05
433	UCART8	441116.7	3763235.31	441116.67, 3763235.31	0.99095	1.03988	0.00079	1.31771	3.67E-06	2.61E-07	4.90E-06	5.62E-05	6.51E-05
434	UCART8	441166.7	3763235.31	441166.67, 3763235.31	0.99677	1.0448	0.00078	1.2719	3.69E-06	2.63E-07	4.84E-06	5.43E-05	6.31E-05
435	UCART8	441116.7	3763285.31	441116.67, 3763285.31	0.88585	0.92818	0.0007	1.20478	3.28E-06	2.33E-07	4.34E-06	5.14E-05	5.93E-05
436	UCART8	441166.7	3763285.31	441166.67, 3763285.31	0.89597	0.93791	0.00069	1.17063	3.32E-06	2.36E-07	4.28E-06	5.00E-05	5.78E-05
437	UCART8	441116.7	3763335.31	441116.67, 3763335.31	0.79734	0.83389	0.00061	1.11052	2.95E-06	2.10E-07	3.78E-06	4.74E-05	5.43E-05
438	UCART8	441166.7	3763335.31	441166.67, 3763335.31	0.80618	0.84272	0.00062	1.07409	2.98E-06	2.12E-07	3.84E-06	4.58E-05	5.29E-05
439	UCART8	441116.7	3763385.31	441116.67, 3763385.31	0.72193	0.75348	0.00054	1.02043	2.67E-06	1.89E-07	3.35E-06	4.35E-05	4.98E-05
440	UCART8	441166.7	3763385.31	441166.67, 3763385.31	0.72738	0.75923	0.00055	0.99964	2.69E-06	1.91E-07	3.41E-06	4.27E-05	4.89E-05
441	UCART8	441116.7	3763435.31	441116.67, 3763435.31	0.65529	0.68261	0.00048	0.92655	2.42E-06	1.72E-07	2.98E-06	3.95E-05	4.51E-05
442	UCART8	441166.7	3763435.31	441166.67, 3763435.31	0.66177	0.68948	0.00049	0.91293	2.45E-06	1.73E-07	3.04E-06	3.90E-05	4.46E-05
443	UCART9	440433.4	3762815.13	440433.43, 3762815.13	3.99923	4.36305	0.00244	21.14786	1.48E-05	1.10E-06	1.51E-05	9.02E-04	9.33E-04
444	UCART9	440483.4	3762815.13	440483.43, 3762815.13	3.92306	4.28138	0.00303	13.38315	1.45E-05	1.08E-06	1.88E-05	5.71E-04	6.05E-04
445	UCART9	440533.4	3762815.13	440533.43, 3762815.13	3.85868	4.23791	0.00352	9.78281	1.43E-05	1.07E-06	2.18E-05	4.17E-04	4.55E-04
446	UCART9	440583.4	3762815.13	440583.43, 3762815.13	3.73441	4.0893	0.00384	7.69899	1.38E-05	1.03E-06	2.38E-05	3.29E-04	3.67E-04
447	UCART9	440633.4	3762815.13	440633.43, 3762815.13	3.65839	4.00807	0.004	6.33627	1.35E-05	1.01E-06	2.48E-05	2.70E-04	3.10E-04
448	UCART9	440683.4	3762815.13	440683.43, 3762815.13	3.57843	3.89061	0.00401	5.38088	1.32E-05	9.78E-07	2.49E-05	2.30E-04	2.69E-04
449	UCART9	440733.4	3762815.13	440733.43, 3762815.13	3.47776	3.74687	0.00394	4.66926	1.29E-05	9.42E-07	2.44E-05	1.99E-04	2.37E-04
450	UCART9	440783.4	3762815.13	440783.43, 3762815.13	3.3855	3.61479	0.00384	4.12888	1.25E-05	9.09E-07	2.38E-05	1.76E-04	2.13E-04
451	UCART9	440833.4	3762815.13	440833.43, 3762815.13	3.26931	3.44951	0.0037	3.69237	1.21E-05	8.67E-07	2.29E-05	1.58E-04	1.93E-04
452	UCART9	440883.4	3762815.13	440883.43, 3762815.13	3.14722	3.28856	0.00356	3.34335	1.16E-05	8.27E-07	2.21E-05	1.43E-04	1.77E-04
453	UCART9	440933.4	3762815.13	440933.43, 3762815.13	3.00748	3.11666	0.00342	3.06322	1.11E-05	7.83E-07	2.12E-05	1.31E-04	1.64E-04
454	UCART9	440983.4	3762815.13	440983.43, 3762815.13	2.86025	2.94498	0.00327	2.82439	1.06E-05	7.40E-07	2.03E-05	1.21E-04	1.52E-04
455	UCART9	440433.4	3762865.13	440433.43, 3762865.13	3.02821	3.37038	0.00166	20.04456	1.12E-05	8.47E-07	1.03E-05	8.55E-04	8.78E-04
456	UCART9	440483.4	3762865.13	440483.43, 3762865.13	3.11748	3.30508	0.00207	12.61818	1.15E-05	8.31E-07	1.28E-05	5.38E-04	5.64E-04
457	UCART9	440533.4	3762865.13	440533.43, 3762865.13	3.08521	3.28627	0.00246	9.22014	1.14E-05	8.26E-07	1.53E-05	3.93E-04	4.21E-04
458	UCART9	440583.4	3762865.13	440583.43, 3762865.13	3.02465	3.22931	0.00277	7.2613	1.12E-05	8.12E-07	1.72E-05	3.10E-04	3.39E-04
459	UCART9	440633.4	3762865.13	440633.43, 3762865.13	2.96251	3.1789	0.00297	5.98358	1.10E-05	7.99E-07	1.84E-05	2.55E-04	2.86E-04
460	UCART9	440683.4	3762865.13	440683.43, 3762865.13	2.92994	3.13697	0.00306	5.08715	1.08E-05	7.89E-07	1.90E-05	2.17E-04	2.48E-04
461	UCART9	440733.4	3762865.13	440733.43, 3762865.13	2.88016	3.08439	0.00307	4.42179	1.07E-05	7.75E-07	1.90E-05	1.89E-04	2.19E-04
462	UCART9	440783.4	3762865.13	440783.43, 3762865.13	2.84275	3.03211	0.00302	3.91429	1.05E-05	7.62E-07	1.87E-05	1.67E-04	1.97E-04
463	UCART9	440833.4	3762865.13	440833.43, 3762865.13	2.795	2.96351	0.00296	3.51644	1.03E-05	7.45E-07	1.84E-05	1.50E-04	1.79E-04
464	UCART9	440883.4	3762865.13	440883.43, 3762865.13	2.72511	2.86985	0.00287	3.19242	1.01E-05	7.21E-07	1.78E-05	1.36E-04	1.65E-04
465	UCART9	440933.4	3762865.13	440933.43, 3762865.13	2.63772	2.75731	0.00278	2.92487	9.76E-06	6.93E-07	1.72E-05	1.25E-04	1.52E-04
466	UCART9	440983.4	3762865.13	440983.43, 3762865.13	2.54066	2.63555	0.00269	2.69508	9.40E-06	6.62E-07	1.67E-05	1.15E-04	1.42E-04
467	UCART10	441118.3	3762686.02	441118.27, 3762686.02	2.99822	2.97821	0.00416	2.59584	1.11E-05	7.49E-07	2.58E-05	1.11E-04	1.48E-04
468	UCART10	441168.3	3762686.02	441168.27, 3762686.02	2.77215	2.74886	0.0038	2.45175	1.03E-05	6.91E-07	2.36E-05	1.05E-04	1.39E-04
469	UCART10	441118.3	3762736.02	441118.27, 3762736.02	2.80274	2.80585	0.00362	2.48553	1.04E-05	7.05E-07	2.24E-05	1.06E-04	1.40E-04
470	UCART10	441168.3	3762736.02	441168.27, 3762736.02	2.61224	2.60793	0.00336	2.34293	9.67E-06	6.56E-07	2.08E-05	1.00E-04	1.31E-04
471	UCART10	441118.3	3762786.02	441118.27, 3762786.02	2.59502	2.61835	0.00312	2.38932	9.60E-06	6.58E-07	1.93E-05	1.02E-04	1.32E-04
472	UCART10	441168.3	3762786.02	441168.27, 3762786.02	2.43803	2.45092	0.00293	2.24518	9.02E-06	6.16E-07	1.82E-05	9.58E-05	1.24E-04
473	UCART10	441118.3	3762836.02	441118.27, 3762836.02	2.38011	2.4202	0.00266	2.28882	8.81E-06	6.08E-07	1.65E-05	9.77E-05	1.24E-04
474	UCART10	441168.3	3762836.02	441168.27, 3762836.02	2.25573	2.28357	0.00253	2.14925	8.35E-06	5.74E-07	1.57E-05	9.17E-05	1.16E-04
475	UCART11	440411.7	3762093.41	440411.67, 3762093.41	8.19287	7.19137	0.0058	46.66589	3.03E-05	1.81E-06	3.60E-05	1.99E-03	2.06E-03
476	UCART11	440461.7	3762093.41	440461.67, 3762093.41	7.35484	6.48211	0.00608	42.14199	2.72E-05	1.63E-06	3.77E-05	1.80E-03	1.86E-03
477	UCART11	440511.7	3762093.41	440511.67, 3762093.41	6.59397	5.84624	0.00629	42.26278	2.44E-05	1.47E-06	3.90E-05	1.80E-03	1.87E-03
478	UCART11	440561.7	3762093.41	440561.67, 3762093.41	5.92393	5.28752	0.00638	42.47285	2.19E-05	1.33E-06	3.96E-05	1.81E-03	1.88E-03
479	UCART11	440611.7	3762093.41	440611.67, 3762093.41	5.34584	4.80346	0.00634	42.63369	1.98E-05	1.21E-06	3.93E-05	1.82E-03	1.88E-03
480	UCART11	440411.7	3762143.41	440411.67, 3762143.41	10.73948	9.21251	0.00944	38.57327	3.97E-05	2.32E-06	5.85E-05	1.65E-03	1.75E-03

Residential Dose					Risk by Age Group					
3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
1.6E-08	4.8E-08	3.8E-08	3.3E-08	1.5E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.4E-08
1.7E-08	5.0E-08	4.0E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.5E-08
1.7E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.6E-08
1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.7E-09	2.7E-08
1.5E-08	4.5E-08	3.5E-08	3.1E-08	1.4E-08	0.0E+00	0.0E+00	9.9E-09	1.0E-08	2.2E-09	2.2E-08
1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.5E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.3E-08
1.7E-08	5.0E-08	4.0E-08	3.4E-08	1.5E-08	0.0E+00	0.0E+00	1.1E-08	1.1E-08	2.4E-09	2.5E-08
1.8E-08	5.3E-08	4.2E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.6E-09	2.6E-08
1.9E-08	5.6E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.3E-08	2.7E-09	2.8E-08
2.0E-08	5.9E-08	4.7E-08	4.0E-08	1.8E-08	0.0E+00	0.0E+00	1.3E-08	1.3E-08	2.9E-09	2.9E-08
2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.1E-07	0.0E+00	0.0E+00	1.5E-07	1.5E-07	3.3E-08	3.3E-07
1.6E-07	4.8E-07	3.8E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	1.1E-07	1.1E-07	2.3E-08	2.4E-07
1.2E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	8.3E-08	8.5E-08	1.8E-08	1.9E-07
1.0E-07	3.1E-07	2.5E-07	2.1E-07	9.6E-08	0.0E+00	0.0E+00	6.8E-08	7.0E-08	1.5E-08	1.5E-07
8.8E-08	2.7E-07	2.1E-07	1.8E-07	8.2E-08	0.0E+00	0.0E+00	5.9E-08	6.0E-08	1.3E-08	1.3E-07
7.7E-08	2.3E-07	1.8E-07	1.6E-07	7.2E-08	0.0E+00	0.0E+00	5.1E-08	5.3E-08	1.1E-08	1.2E-07
6.9E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	4.6E-08	4.7E-08	1.0E-08	1.0E-07
6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	4.2E-08	4.3E-08	9.2E-09	9.3E-08
5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	3.8E-08	3.9E-08	8.4E-09	8.6E-08
1.6E-07	4.7E-07	3.7E-07	3.2E-07	1.5E-07	0.0E+00	0.0E+00	1.0E-07	1.1E-07	2.3E-08	2.3E-07
1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	8.4E-08	8.6E-08	1.8E-08	1.9E-07
1.0E-07	3.2E-07	2.5E-07	2.2E-07	9.7E-08	0.0E+00	0.0E+00	7.0E-08	7.1E-08	1.5E-08	1.6E-07
8.9E-08	2.7E-07	2.1E-07	1.8E-07	8.3E-08	0.0E+00	0.0E+00	5.9E-08	6.1E-08	1.3E-08	1.3E-07
7.8E-08	2.4E-07	1.9E-07	1.6E-07	7.2E-08	0.0E+00	0.0E+00	5.2E-08	5.3E-08	1.1E-08	1.2E-07
6.9E-08	2.1E-07	1.7E-07	1.4E-07	6.4E-08	0.0E+00	0.0E+00	4.6E-08	4.7E-08	1.0E-08	1.0E-07
6.3E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	4.2E-08	4.3E-08	9.2E-09	9.4E-08
5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	3.8E-08	3.9E-08	8.3E-09	8.5E-08
5.2E-08	1.6E-07	1.2E-07	1.1E-07	4.8E-08	0.0E+00	0.0E+00	3.5E-08	3.6E-08	7.6E-09	7.8E-08
2.7E-08	8.1E-08	6.4E-08	5.5E-08	2.5E-08	0.0E+00	0.0E+00	1.8E-08	1.8E-08	3.9E-09	4.0E-08
2.6E-08	7.8E-08	6.2E-08	5.3E-08	2.4E-08	0.0E+00	0.0E+00	1.7E-08	1.8E-08	3.8E-09	3.8E-08
2.5E-08	7.4E-08	5.9E-08	5.1E-08	2.3E-08	0.0E+00	0.0E+00	1.6E-08	1.7E-08	3.6E-09	3.7E-08
2.4E-08	7.2E-08	5.7E-08	4.9E-08	2.2E-08	0.0E+00	0.0E+00	1.6E-08	1.6E-08	3.5E-09	3.5E-08
2.3E-08	6.8E-08	5.4E-08	4.6E-08	2.1E-08	0.0E+00	0.0E+00	1.5E-08	1.5E-08	3.3E-09	3.4E-08
2.2E-08	6.6E-08	5.2E-08	4.5E-08	2.0E-08	0.0E+00	0.0E+00	1.4E-08	1.5E-08	3.2E-09	3.3E-08
2.1E-08	6.2E-08	4.9E-08	4.2E-08	1.9E-08	0.0E+00	0.0E+00	1.4E-08	1.4E-08	3.0E-09	3.1E-08
2.0E-08	6.0E-08	4.8E-08	4.1E-08	1.9E-08	0.0E+00	0.0E+00	1.3E-08	1.4E-08	2.9E-09	3.0E-08
1.9E-08	5.7E-08	4.5E-08	3.9E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.3E-08	2.8E-09	2.8E-08
1.8E-08	5.5E-08	4.4E-08	3.8E-08	1.7E-08	0.0E+00	0.0E+00	1.2E-08	1.2E-08	2.7E-09	2.7E-08
1.7E-08	5.2E-08	4.1E-08	3.6E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.2E-08	2.5E-09	2.6E-08
1.7E-08	5.1E-08	4.0E-08	3.5E-08	1.6E-08	0.0E+00	0.0E+00	1.1E-08	1.2E-08	2.5E-09	2.5E-08
1.6E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.3E-08
1.5E-08	4.7E-08	3.7E-08	3.2E-08	1.4E-08	0.0E+00	0.0E+00	1.0E-08	1.1E-08	2.3E-09	2.3E-08
3.2E-07	9.8E-07	7.7E-07	6.7E-07	3.0E-07	0.0E+00	0.0E+00	2.1E-07	2.2E-07	4.7E-08	4.8E-07
2.1E-07	6.3E-07	5.0E-07	4.3E-07	1.9E-07	0.0E+00	0.0E+00	1.4E-07	1.4E-07	3.1E-08	3.1E-07
1.6E-07	4.8E-07	3.8E-07	3.2E-07	1.5E-07	0.0E+00	0.0E+00	1.0E-07	1.1E-07	2.3E-08	2.3E-07
1.3E-07	3.8E-07	3.0E-07	2.6E-07	1.2E-07	0.0E+00	0.0E+00	8.4E-08	8.7E-08	1.9E-08	1.9E-07
1.1E-07	3.2E-07	2.6E-07	2.2E-07	9.9E-08	0.0E+00	0.0E+00	7.1E-08	7.3E-08	1.6E-08	1.6E-07
9.3E-08	2.8E-07	2.2E-07	1.9E-07	8.6E-08	0.0E+00	0.0E+00	6.2E-08	6.3E-08	1.4E-08	1.4E-07
8.2E-08	2.5E-07	2.0E-07	1.7E-07	7.6E-08	0.0E+00	0.0E+00	5.5E-08	5.6E-08	1.2E-08	1.2E-07
7.4E-08	2.2E-07	1.8E-07	1.5E-07	6.9E-08	0.0E+00	0.0E+00	4.9E-08	5.0E-08	1.1E-08	1.1E-07
6.7E-08	2.0E-07	1.6E-07	1.4E-07	6.2E-08	0.0E+00	0.0E+00	4.4E-08	4.6E-08	9.8E-09	1.0E-07
6.1E-08	1.9E-07	1.5E-07	1.3E-07	5.7E-08	0.0E+00	0.0E+00	4.1E-08	4.2E-08	9.0E-09	9.1E-08
5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	3.8E-08	3.9E-08	8.3E-09	8.5E-08
5.3E-08	1.6E-07	1.3E-07	1.1E-07	4.9E-08	0.0E+00	0.0E+00	3.5E-08	3.6E-08	7.7E-09	7.9E-08
2.9E-07	9.2E-07	7.2E-07	6.3E-07	2.8E-07	0.0E+00	0.0E+00	2.0E-07	2.1E-07	4.4E-08	4.5E-07
2.0E-07	5.9E-07	4.7E-07	4.0E-07	1.8E-07	0.0E+00	0.0E+00	1.3E-07	1.3E-07	2.9E-08	2.9E-07
1.5E-07	4.4E-07	3.5E-07	3.0E-07	1.4E-07	0.0E+00	0.0E+00	9.7E-08	9.9E-08	2.1E-08	2.2E-07
1.2E-07	3.5E-07	2.8E-07	2.4E-07	1.1E-07	0.0E+00	0.0E+00	7.8E-08	8.0E-08	1.7E-08	1.7E-07
9.9E-08	3.0E-07	2.4E-07	2.0E-07	9.2E-08	0.0E+00	0.0E+00	6.6E-08	6.7E-08	1.4E-08	1.5E-07
8.6E-08	2.6E-07	2.0E-07	1.8E-07	8.0E-08	0.0E+00	0.0E+00	5.7E-08	5.8E-08	1.3E-08	1.3E-07
7.6E-08	2.3E-07	1.8E-07	1.6E-07	7.0E-08	0.0E+00	0.0E+00	5.0E-08	5.2E-08	1.1E-08	1.1E-07
6.8E-08	2.1E-07	1.6E-07	1.4E-07	6.3E-08	0.0E+00	0.0E+00	4.5E-08	4.6E-08	1.0E-08	1.0E-07
6.2E-08	1.9E-07	1.5E-07	1.3E-07	5.8E-08	0.0E+00	0.0E+00	4.1E-08	4.2E-08	9.1E-09	9.3E-08
5.7E-08	1.7E-07	1.4E-07	1.2E-07	5.3E-08	0.0E+00	0.0E+00	3.8E-08	3.9E-08	8.4E-09	8.5E-08

PHASE 2 OPERATIONAL MITIGATED

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
3.70E-06	2.51E-07	6.20E-03	4.27E-05

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]					Residential Dose					Risk by Age Group				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total	3rd Tri	0<2	2<9	9<16	16<30	3rd Tri	0<2	2<9	9<16	16<30	Total Risk
481	UCART11	440461.7	3762143.41	440461.67, 3762143.41	9.40397	8.12108	0.0099	22.55939	3.48E-05	2.04E-06	6.14E-05	9.63E-04	1.06E-03	3.7E-07	1.1E-06	8.8E-07	7.6E-07	3.4E-07	0.0E+00	0.0E+00	2.4E-07	2.5E-07	5.4E-08	5.5E-07
482	UCART11	440511.7	3762143.41	440511.67, 3762143.41	8.27022	7.20617	0.01007	19.12953	3.06E-05	1.81E-06	6.24E-05	8.16E-04	9.11E-04	3.2E-07	9.5E-07	7.5E-07	6.5E-07	2.9E-07	0.0E+00	0.0E+00	2.1E-07	2.1E-07	4.6E-08	4.7E-07
483	UCART11	440561.7	3762143.41	440561.67, 3762143.41	7.30284	6.42353	0.00992	18.04248	2.70E-05	1.61E-06	6.15E-05	7.70E-04	8.60E-04	3.0E-07	9.0E-07	7.1E-07	6.1E-07	2.8E-07	0.0E+00	0.0E+00	2.0E-07	2.0E-07	4.4E-08	4.4E-07
484	UCART11	440611.7	3762143.41	440611.67, 3762143.41	6.50658	5.77477	0.00953	17.58151	2.41E-05	1.45E-06	5.91E-05	7.50E-04	8.35E-04	2.9E-07	8.7E-07	6.9E-07	6.0E-07	2.7E-07	0.0E+00	0.0E+00	1.9E-07	2.0E-07	4.2E-08	4.3E-07
485	UCART12	440406.6	3762008.86	440406.61, 3762008.86	5.6318	5.07645	0.00307	12.48933	2.08E-05	1.28E-06	1.90E-05	5.33E-04	5.74E-04	2.0E-07	6.0E-07	4.7E-07	4.1E-07	1.8E-07	0.0E+00	0.0E+00	1.3E-07	1.4E-07	2.9E-08	3.0E-07
486	UCART12	440456.6	3762008.86	440456.61, 3762008.86	5.22517	4.71715	0.00318	14.33852	1.93E-05	1.19E-06	1.97E-05	6.12E-04	6.52E-04	2.3E-07	6.8E-07	5.4E-07	4.7E-07	2.1E-07	0.0E+00	0.0E+00	1.5E-07	1.5E-07	3.3E-08	3.4E-07
487	UCART12	440506.6	3762008.86	440506.61, 3762008.86	4.80568	4.35208	0.00328	15.27705	1.78E-05	1.09E-06	2.03E-05	6.52E-04	6.91E-04	2.4E-07	7.2E-07	5.7E-07	4.9E-07	2.2E-07	0.0E+00	0.0E+00	1.6E-07	1.6E-07	3.5E-08	3.6E-07
488	UCART12	440556.6	3762008.86	440556.61, 3762008.86	4.40497	4.00531	0.00337	15.76365	1.63E-05	1.01E-06	2.09E-05	6.73E-04	7.11E-04	2.5E-07	7.4E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	1.6E-07	1.7E-07	3.6E-08	3.7E-07
489	UCART12	440606.6	3762008.86	440606.61, 3762008.86	4.04453	3.69375	0.00343	16.04475	1.50E-05	9.28E-07	2.13E-05	6.85E-04	7.22E-04	2.5E-07	7.5E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	1.7E-07	1.7E-07	3.7E-08	3.7E-07
490	UCART12	440656.6	3762008.86	440656.61, 3762008.86	3.72604	3.41776	0.00346	16.18522	1.38E-05	8.59E-07	2.15E-05	6.91E-04	7.27E-04	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	1.7E-07	1.7E-07	3.7E-08	3.8E-07
491	UCART12	440706.6	3762008.86	440706.61, 3762008.86	3.44719	3.17512	0.00346	16.26077	1.28E-05	7.98E-07	2.15E-05	6.94E-04	7.29E-04	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	1.7E-07	1.7E-07	3.7E-08	3.8E-07
492	UCART12	440756.6	3762008.86	440756.61, 3762008.86	3.20139	2.96007	0.00342	16.29917	1.18E-05	7.44E-07	2.12E-05	6.96E-04	7.29E-04	2.5E-07	7.6E-07	6.0E-07	5.2E-07	2.3E-07	0.0E+00	0.0E+00	1.7E-07	1.7E-07	3.7E-08	3.8E-07
493	UCART12	440806.6	3762008.86	440806.61, 3762008.86	2.97277	2.75813	0.00336	16.0824	1.10E-05	6.93E-07	2.08E-05	6.86E-04	7.19E-04	2.5E-07	7.5E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	1.7E-07	1.7E-07	3.6E-08	3.7E-07
494	UCART12	440856.6	3762008.86	440856.61, 3762008.86	2.77776	2.58563	0.00327	16.03124	1.03E-05	6.50E-07	2.03E-05	6.84E-04	7.15E-04	2.5E-07	7.5E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	1.6E-07	1.7E-07	3.6E-08	3.7E-07
495	UCART12	440906.6	3762008.86	440906.61, 3762008.86	2.60551	2.43287	0.00316	16.00972	9.64E-06	6.12E-07	1.96E-05	6.83E-04	7.13E-04	2.5E-07	7.5E-07	5.9E-07	5.1E-07	2.3E-07	0.0E+00	0.0E+00	1.6E-07	1.7E-07	3.6E-08	3.7E-07
496	UCART12	440956.6	3762008.86	440956.61, 3762008.86	2.44151	2.28614	0.00303	15.69258	9.03E-06	5.75E-07	1.88E-05	6.70E-04	6.98E-04	2.4E-07	7.3E-07	5.8E-07	5.0E-07	2.2E-07	0.0E+00	0.0E+00	1.6E-07	1.6E-07	3.5E-08	3.6E-07
497	UCART12	441006.6	3762008.86	441006.61, 3762008.86	2.29226	2.1521	0.00289	15.23089	8.48E-06	5.41E-07	1.79E-05	6.50E-04	6.77E-04	2.3E-07	7.1E-07	5.6E-07	4.8E-07	2.2E-07	0.0E+00	0.0E+00	1.6E-07	1.6E-07	3.4E-08	3.5E-07
498	UCART12	441056.6	3762008.86	441056.61, 3762008.86	2.15244	2.0258	0.00276	14.35464	7.96E-06	5.09E-07	1.71E-05	6.13E-04	6.38E-04	2.2E-07	6.7E-07	5.3E-07	4.6E-07	2.0E-07	0.0E+00	0.0E+00	1.5E-07	1.5E-07	3.2E-08	3.3E-07
499	UCART12	441106.6	3762008.86	441106.61, 3762008.86	2.02704	1.91234	0.00262	12.93718	7.50E-06	4.81E-07	1.62E-05	5.52E-04	5.76E-04	2.0E-07	6.0E-07	4.8E-07	4.1E-07	1.9E-07	0.0E+00	0.0E+00	1.3E-07	1.4E-07	2.9E-08	3.0E-07
500	UCART12	441156.6	3762008.86	441156.61, 3762008.86	1.91221	1.80815	0.00248	10.44671	7.08E-06	4.54E-07	1.54E-05	4.46E-04	4.69E-04	1.6E-07	4.9E-07	3.9E-07	3.3E-07	1.5E-07	0.0E+00	0.0E+00	1.1E-07	1.1E-07	2.4E-08	2.4E-07
501	UCART12	440406.6	3762058.86	440406.61, 3762058.86	7.00391	6.22291	0.00435	36.17263	2.59E-05	1.56E-06	2.70E-05	1.54E-03	1.60E-03	5.5E-07	1.7E-06	1.3E-06	1.1E-06	5.1E-07	0.0E+00	0.0E+00	3.7E-07	3.8E-07	8.1E-08	8.2E-07
502	UCART12	440456.6	3762058.86	440456.61, 3762058.86	6.38292	5.68635	0.00454	43.39778	2.36E-05	1.43E-06	2.82E-05	1.85E-03	1.91E-03	6.6E-07	2.0E-06	1.6E-06	1.4E-06	6.1E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.7E-08	9.8E-07
503	UCART12	440506.6	3762058.86	440506.61, 3762058.86	5.78621	5.17801	0.00471	44.90561	2.14E-05	1.30E-06	2.92E-05	1.92E-03	1.97E-03	6.8E-07	2.1E-06	1.6E-06	1.4E-06	6.3E-07	0.0E+00	0.0E+00	4.5E-07	4.6E-07	1.0E-07	1.0E-06
504	UCART12	440556.6	3762058.86	440556.61, 3762058.86	5.24507	4.71912	0.00482	45.30614	1.94E-05	1.19E-06	2.99E-05	1.93E-03	1.98E-03	6.9E-07	2.1E-06	1.6E-06	1.4E-06	6.4E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
505	UCART12	440606.6	3762058.86	440606.61, 3762058.86	4.7689	4.31471	0.00487	45.41047	1.76E-05	1.08E-06	3.02E-05	1.94E-03	1.99E-03	6.9E-07	2.1E-06	1.6E-06	1.4E-06	6.4E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
506	UCART12	440656.6	3762058.86	440656.61, 3762058.86	4.36039	3.96643	0.00485	45.32907	1.61E-05	9.97E-07	3.01E-05	1.93E-03	1.98E-03	6.9E-07	2.1E-06	1.6E-06	1.4E-06	6.4E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
507	UCART12	440706.6	3762058.86	440706.61, 3762058.86	4.00877	3.66506	0.00476	45.52896	1.48E-05	9.21E-07	2.95E-05	1.94E-03	1.99E-03	6.9E-07	2.1E-06	1.6E-06	1.4E-06	6.4E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
508	UCART12	440756.6	3762058.86	440756.61, 3762058.86	3.69583	3.39457	0.00463	45.51913	1.37E-05	8.53E-07	2.87E-05	1.94E-03	1.99E-03	6.9E-07	2.1E-06	1.6E-06	1.4E-06	6.4E-07	0.0E+00	0.0E+00	4.6E-07	4.7E-07	1.0E-07	1.0E-06
509	UCART12	440806.6	3762058.86	440806.61, 3762058.86	3.40932	3.14432	0.00446	44.44862	1.26E-05	7.90E-07	2.77E-05	1.90E-03	1.94E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.4E-07	4.6E-07	9.8E-08	1.0E-06
510	UCART12	440856.6	3762058.86	440856.61, 3762058.86	3.16168	2.92738	0.00425	44.52731	1.17E-05	7.36E-07	2.64E-05	1.90E-03	1.94E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.5E-07	4.6E-07	9.8E-08	1.0E-06
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	2.94083	2.733	0.00403	44.63521	1.09E-05	6.87E-07	2.50E-05	1.90E-03	1.94E-03	6.7E-07	2.0E-06	1.6E-06	1.4E-06	6.2E-07	0.0E+00	0.0E+00	4.5E-07	4.6E-07	9.8E-08	1.0E-06
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	2.73737	2.55258	0.0038	43.97241	1.01E-05	6.42E-07	2.36E-05	1.88E-03	1.91E-03	6.6E-07	2.0E-06	1.6E-06	1.4E-06	6.1E-07	0.0E+00	0.0E+00	4.4E-07	4.5E-07	9.7E-08	9.9E-07
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	2.55236	2.38764	0.00357	43.21195	9.44E-06	6.00E-07	2.21E-05	1.84E-03	1.88E-03	6.5E-07	2.0E-06	1.5E-06	1.3E-06	6.0E-07	0.0E+00	0.0E+00	4.3E-07	4.4E-07	9.5E-08	9.7E-07
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	2.38477	2.23757	0.00335	42.10346	8.82E-06	5.62E-07	2.08E-05	1.80E-03	1.83E-03	6.3E-07	1.9E-06	1.5E-06	1.3E-06	5.9E-07	0.0E+00	0.0E+00	4.2E-07	4.3E-07	9.3E-08	9.4E-07
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	2.23236	2.10052	0.00314	39.8099	8.26E-06	5.28E-07	1.95E-05	1.70E-03	1.73E-03	6.0E-07	1.8E-06	1.4E-06	1.2E-06	5.5E-07	0.0E+00	0.0E+00	4.0E-07	4.1E-07	8.8E-08	8.9E-07
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	2.09387	1.97549	0.00294	29.15804	7.75E-06	4.97E-07	1.82E-05	1.24E-03	1.27E-03	4.4E-07	1.3E-06	1.0E-06	9.1E-07	4.1E-07	0.0E+00	0.0E+00	2.9E-07	3.0E-07	6.4E-08	6.6E-07
517	ONSITE	440191.4	3762138.44	440191.38, 3762138.44	12.03481	10.74853	0.00836	5.24892	4.45E-05	2.70E-06	5.18E-05	2.24E-04	3.23E-04	1.1E-07	3.4E-07	2.7E-07	2.3E-07	1.0E-07	0.0E+00	0.0E+00	7.4E-08	7.6E-08	1.6E-08	1.7E-07
518	ONSITE	440241.4	3762138.44	440241.38, 3762138.44	12.93805	11.32316	0.00853	6.86621	4.79E-05	2.85E-06	5.29E-05	2.93E-04	3.97E-04	1.4E-07	4.1E-07	3.3E-07	2.8E-07	1.3E-07	0.0E+00	0.0E+00	9.1E-08	9.3E-08	2.0E-08	2.0E-07
519	ONSITE	440291.4	3762138.44	440291.38, 3762138.44	12.97724	11.20436	0.00831	9.95728	4.80E-05	2.82E-06	5.15E-05	4.25E-04	5.27E-04	1.8E-07	5.5E-07	4.4E-07	3.8E-07	1.7E-07	0.0E+00	0.0E+00	1.2E-07	1.2E-07	2.7E-08	2.7E-07
520	ONSITE	440341.4	3762138.44	440341.38, 3762138.44	12.11165	10.39712	0.00834	18.08092	4.48E-05	2.61E-06	5.17E-05	7.72E-04	8.71E-04	3.0E-07	9.1E-07	7.2E-07	6.2E-07	2.8E-07	0.0E+00	0.0E+00	2.0E-07	2.1E-07	4.4E-08	4.5E-07
521	ONSITE	440191.4	3762188.44	440191.38, 3762188.44	17.30245	15.14603	0.01311	5.54571	6.40E-05	3.81E-06	8.13E-05	2.37E-04	3.86E-04	1.3E-07	4.0E-07	3.2E-07	2.8E-07	1.2E-07	0.0E+00	0.0E+00	8.9E-08	9.1E-08	2.0E-08	2.0E-07
522	ONSITE	440241.4	3762188.44	440241.38, 3762188.44	19.158	16.24069	0.01421	7.23204	7.09E-05	4.08E-06	8.81E-05	3.09E-04	4.72E-04	1.6E-07	4.9E-07	3.9E-07	3.4E-07	1.5E-07	0.0E+00	0.0E+00	1.1E-07	1.1E-07	2.4E-08	2.4E-07
523	ONSITE	440291.4	3762188.44	440291.38, 3762188.44	19.41626	16.16158	0.01438	10.526	7.18E-05	4.06E-06	8.92E-05	4.49E-04	6.14E-04	2.1E-07	6.4E-07	5.1E-07	4.4E-07	2.0E-07	0.0E+00	0.0E+00	1.4E-07	1.4E-07	3.1E-08	3.2E-07
524	ONSITE	440341.4	3762188.44	440341.38, 3762188.44	17.5969	14.57909	0.01482	19.09891	6.51E-05	3.66E-06	9.19E-05	8.15E-04	9.76E-04	3.4E-07	1.0E-06	8.1E-07	7.0E-07	3.1E-07	0.0E+00	0.0E+00	2.2E-07	2.3E-07	4.9E-08	5.0E-07
525	ONSITE	440191.4	3762238.44	440191.38, 3762238.44	26.90355	22.91794	0.02261	5.75626	9.96E-05	5.76E-06	1.40E-04	2.46E-04	4.91E-04	1.7E-07	5.1E-07	4.1E-07	3.5E-07	1.6E-07	0.0E+00	0.0E+00	1.1E-07	1.2E-07	2.5E-08	2.5E-07
526	ONSITE	440241.4	3762238.44	440241.38, 3762238.44	32.62897	26.10954	0.02728	7.48289	1.21E-04	6.56E-06	1.69E-04	3.19E-04	6.16E-04	2.1E-07	6.4E-07	5.1E-07	4.4E-07	2.0E-07	0.0E+00	0.0E+00	1.4E-07	1.5E-07	3.1E-08	3.2E-07
527	ONSITE	440291.4	3762238.44	440291.38, 3762238.44	33.06517	25.8147	0.03035	10.81281	1.22E-04	6.49E-06	1.88E-04	4.61E-04	7.78E-04	2.7E-07	8.1E-07	6.4E-07	5.6E-07	2.5E-07	0.0E+00	0.0E+00	1.8E-07	1.8E-07	3.9E-08	4.0E-07
528	ONSITE	440341.4	3762238.44	440341.38, 3762238.44	27.92428	21.85662	0.03244	19.50344	1.03E-04	5.49E-06	2.01E-04	8.32E-04	1.14E-03	4.0E-07	1.2E-06	9.4E-07	8.2E-07	3.7E-07	0.0E+00	0.0E+00	2.6E-07	2.7E-07	5.8E-08	5.9E-07

CANCER RISK SUMMARY

PHASE 1

UNMITIGATED

		Construction	Operations
Off-Site Receptors			
440433.43, 3762815.13	NE corner of Schaefer Ave and Sultana Ave, E/O NE corner of site	0.61	79.85
440411.67, 3762093.41	SE corner of Edison Ave and Sultana Ave, E/O SE corner of site	12.06	18.01
440411.67, 3762143.41	SE corner of Edison Ave and Sultana Ave, E/O SE corner of site	3.29	20.84
On-Site Receptors			
440191.38, 3762238.44	n/a	-	60.25
440241.38, 3762238.44	n/a	-	46.44

MITIGATED

		Construction	Operations
Off-Site Receptors			
440433.43, 3762815.13	NE corner of Schaefer Ave and Sultana Ave, E/O NE corner of site	0.11	0.57
440411.67, 3762093.41	SE corner of Edison Ave and Sultana Ave, E/O SE corner of site	0.97	1.01
440411.67, 3762143.41	SE corner of Edison Ave and Sultana Ave, E/O SE corner of site	0.28	0.77
On-Site Receptors			
440191.38, 3762238.44	n/a	-	0.46
440241.38, 3762238.44	n/a	-	0.41

PHASE 2

UNMITIGATED

	Construction	Operations
Off-Site Receptors		
440433.43, 3762815.13	0.05	3.96
440411.67, 3762093.41	0.71	6.80
440411.67, 3762143.41	1.02	8.25
440191.38, 3762238.44	n/a	18.54
440241.38, 3762238.44	n/a	21.16

MITIGATED

	Construction (UNI	Operations
Off-Site Receptors		
440433.43, 3762815.13	0.01	0.48
440411.67, 3762093.41	0.11	1.06
440411.67, 3762143.41	0.16	0.90
On-Site Receptors		
440191.38, 3762238.44	n/a	0.25
440241.38, 3762238.44	n/a	0.32

Combined

UNMITIGATED

	Combined Construction	Combined Ops	Combined
Off-Site Receptors			
440433.43, 3762815.13	0.66	83.81	84.47
440411.67, 3762093.41	12.76	24.81	37.58
440411.67, 3762143.41	4.31	29.09	33.40
440191.38, 3762238.44	n/a	78.79	78.79
440241.38, 3762238.44	n/a	67.60	67.60

MITIGATED

	Combined Construction	Combined Ops	Combined
Off-Site Receptors			
440433.43, 3762815.13	0.12	1.05	1.16
440411.67, 3762093.41	1.08	2.07	3.15
440411.67, 3762143.41	0.44	1.67	2.12
On-Site Receptors			
440191.38, 3762238.44	n/a	0.71	0.71
440241.38, 3762238.44	n/a	0.73	0.73

Residential DOSEair =		(Cair*(BR/BW)*A*EF*10^{-6})
A	1	Inhalation absorption factor[1]
EF	0.96	Exposure frequency (350/year)[2]
10^{-6}	1.0E-06	Micrograms to milligrams conversions, liters to cubic meters conversion[3]

Residential Risk =		DOSEair * CPF * ASF * ED/AT * FAH
CPF	1.1	Cancer Potency Factor for DPM[4]
AT	70	Averaging Time[5]

		ASF	FAH	BR/BW
3rd Tri		10	1	361
	0<2	10	1	1090
	2<9	3	1	861
	9<16	3	1	745
	16<30	1	0.73	335

	ED	Ph1Const	Ph1 Ops	Ph2Const	Ph2 Ops
3rd Tri		0.25	0	0	0
	0<2	2	0	0	0
	2<9	0	7	1.1	5.9
	9<16	0	7	0	7
	16<30	0	14	0	13.75

CHRONIC SUMMARY

Phase 1

	Construction		Construction Mitigated		Operational		Operational Mitigated	
	Avg Annual Conc	Chronic HI	Avg Annual Conc	Chronic HI	Avg Annual Conc	Chronic HI	Avg Annual Conc	Chronic HI
Off-Site Receptors								
440433.43, 3762815.13	0.0004	0.0001	0.0003	0.0001	0.1426	0.0285	0.0010	0.0002
440411.67, 3762093.41	0.0070	0.0014	0.0028	0.0006	0.0322	0.0064	0.0018	0.0004
440411.67, 3762143.41	0.0019	0.0004	0.0008	0.0002	0.0372	0.0074	0.0014	0.0003
On-Site Receptors								
440191.38, 3762238.44	n/a	n/a			0.1076	0.0215	0.0008	0.0002
440241.38, 3762238.44	n/a	n/a			0.0830	0.0166	0.0007	0.0001

Phase 2

	Construction		Construction Mitigated		Operational		Operational Mitigated	
	Avg Annual Conc	Chronic HI	Avg Annual Conc	Chronic HI	Avg Annual Conc	Chronic HI	Avg Annual Conc	Chronic HI
Off-Site Receptors								
440433.43, 3762815.13	0.0002	0.0000	0.0003	0.0001	0.0077	0.0015	0.0009	0.0002
440411.67, 3762093.41	0.0033	0.0007	0.0027	0.0005	0.0132	0.0026	0.0021	0.0004
440411.67, 3762143.41	0.0048	0.0010	0.0038	0.0008	0.0160	0.0032	0.0017	0.0003
On-Site Receptors								
440191.38, 3762238.44	n/a	n/a			0.0359	0.0072	0.0005	0.0001
440241.38, 3762238.44	n/a	n/a			0.0410	0.0082	0.0006	0.0001

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**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 3/30/2023
** File: C:\Lakes\OntarioEuclid_Construction\OntarioEuclid_Construction.ADI
**
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**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid CSTN
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_Construction.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE1
** DESCRSRC Phase 1 Onsite Construction
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.77
** SZINIT = 3.62
** Nodes = 48
** 439942.538, 3762855.810, 219.91, 3.89, 6.98
** 440353.073, 3762857.616, 220.79, 3.89, 6.98
** 440353.073, 3762830.528, 220.29, 3.89, 6.98
** 439943.742, 3762828.120, 219.56, 3.89, 6.98
** 439942.538, 3762796.216, 219.26, 3.89, 6.98
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** 440351.267, 3762800.430, 220.10, 3.89, 6.98
** 440351.869, 3762772.138, 219.43, 3.89, 6.98
** 439941.936, 3762770.934, 218.93, 3.89, 6.98
** 439943.742, 3762736.020, 218.56, 3.89, 6.98
** 440351.869, 3762744.448, 219.21, 3.89, 6.98
** 440352.471, 3762714.952, 219.05, 3.89, 6.98
** 439943.140, 3762705.922, 218.21, 3.89, 6.98
** 439942.538, 3762674.019, 217.71, 3.89, 6.98
** 440351.267, 3762685.456, 218.76, 3.89, 6.98
** 440351.267, 3762655.960, 218.50, 3.89, 6.98
** 439943.742, 3762642.115, 217.13, 3.89, 6.98
** 439943.742, 3762612.017, 216.79, 3.89, 6.98
** 440351.267, 3762627.066, 218.23, 3.89, 6.98
** 440350.665, 3762595.162, 217.46, 3.89, 6.98
** 439942.538, 3762584.327, 216.37, 3.89, 6.98
** 439940.130, 3762545.802, 215.73, 3.89, 6.98
** 440353.675, 3762560.249, 217.42, 3.89, 6.98
** 440353.675, 3762534.365, 216.38, 3.89, 6.98
** 439941.334, 3762518.714, 215.32, 3.89, 6.98
** 439940.130, 3762485.004, 214.96, 3.89, 6.98
** 440355.481, 3762507.878, 216.81, 3.89, 6.98
** 440357.287, 3762479.586, 218.13, 3.89, 6.98
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** DESCRSRC Euclid n/o Edison
** PREFIX
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** Configuration = Adjacent
** Emission Rate = 0.498697121
** Vertical Dimension = 6.22
** SZINIT = 2.89
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LOCATION L0011927     VOLUME   439903.984 3762621.942 216.74
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LOCATION L0011929     VOLUME   439904.098 3762651.942 217.15
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LOCATION L0011931     VOLUME   439904.212 3762681.942 217.57
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LOCATION L0011935     VOLUME   439904.439 3762741.941 218.39
LOCATION L0011936     VOLUME   439904.496 3762756.941 218.59
LOCATION L0011937     VOLUME   439904.553 3762771.941 218.79
LOCATION L0011938     VOLUME   439904.610 3762786.941 219.00
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LOCATION L0011940     VOLUME   439904.724 3762816.941 219.40
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   LOCATION L0011972     VOLUME   439906.544 3763296.937 225.54
   LOCATION L0011973     VOLUME   439906.601 3763311.937 225.71
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   LOCATION L0011979     VOLUME   439906.942 3763401.937 226.62
   LOCATION L0011980     VOLUME   439906.999 3763416.937 226.75
   LOCATION L0011981     VOLUME   439907.056 3763431.936 226.88
   LOCATION L0011982     VOLUME   439907.113 3763446.936 227.02
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Edison e/o Euclid
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.276028474
** Vertical Dimension = 6.22
** SZINIT = 2.89
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   LOCATION L0011994     VOLUME   439999.199 3762076.737 210.26
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   LOCATION L0012002     VOLUME   440071.199 3762076.733 210.34
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   LOCATION L0012005     VOLUME   440098.199 3762076.731 210.38
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   LOCATION L0012008     VOLUME   440125.199 3762076.729 210.45
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   LOCATION L0012011     VOLUME   440152.199 3762076.728 210.55
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   LOCATION L0012024     VOLUME   440269.199 3762076.721 211.05
   LOCATION L0012025     VOLUME   440278.199 3762076.720 211.06
   LOCATION L0012026     VOLUME   440287.199 3762076.720 211.06
   LOCATION L0012027     VOLUME   440296.199 3762076.719 211.04
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   LOCATION L0012029     VOLUME   440314.199 3762076.718 210.95
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LOCATION L0012035 VOLUME 440368.199 3762076.715 211.29
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LOCATION L0012070 VOLUME 440683.199 3762076.696 211.94
LOCATION L0012071 VOLUME 440692.199 3762076.695 211.97
LOCATION L0012072 VOLUME 440701.199 3762076.695 212.00
LOCATION L0012073 VOLUME 440710.199 3762076.694 212.02
LOCATION L0012074 VOLUME 440719.199 3762076.693 212.04
LOCATION L0012075 VOLUME 440728.199 3762076.693 212.06
LOCATION L0012076 VOLUME 440737.199 3762076.692 212.08
LOCATION L0012077 VOLUME 440746.199 3762076.692 212.10
LOCATION L0012078 VOLUME 440755.199 3762076.691 212.12
LOCATION L0012079 VOLUME 440764.199 3762076.691 212.11
LOCATION L0012080 VOLUME 440773.199 3762076.690 212.10

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   LOCATION L0012086     VOLUME   440827.199 3762076.687 211.82
   LOCATION L0012087     VOLUME   440836.199 3762076.686 211.81
   LOCATION L0012088     VOLUME   440845.199 3762076.686 211.83
   LOCATION L0012089     VOLUME   440854.199 3762076.685 211.84
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   LOCATION L0012091     VOLUME   440872.199 3762076.684 211.92
   LOCATION L0012092     VOLUME   440881.199 3762076.684 211.97
   LOCATION L0012093     VOLUME   440890.199 3762076.683 211.96
   LOCATION L0012094     VOLUME   440899.199 3762076.683 211.94
   LOCATION L0012095     VOLUME   440908.199 3762076.682 211.92
   LOCATION L0012096     VOLUME   440917.199 3762076.681 211.93
   LOCATION L0012097     VOLUME   440926.199 3762076.681 211.94
   LOCATION L0012098     VOLUME   440935.199 3762076.680 211.95
   LOCATION L0012099     VOLUME   440944.199 3762076.680 211.93
   LOCATION L0012100     VOLUME   440953.199 3762076.679 211.91
   LOCATION L0012101     VOLUME   440962.199 3762076.679 211.89
   LOCATION L0012102     VOLUME   440971.199 3762076.678 211.88
   LOCATION L0012103     VOLUME   440980.199 3762076.678 211.87
   LOCATION L0012104     VOLUME   440989.199 3762076.677 211.83
   LOCATION L0012105     VOLUME   440998.199 3762076.677 211.76
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   LOCATION L0012107     VOLUME   441016.199 3762076.675 211.64
   LOCATION L0012108     VOLUME   441025.199 3762076.675 211.62
   LOCATION L0012109     VOLUME   441034.199 3762076.674 211.59
   LOCATION L0012110     VOLUME   441043.199 3762076.674 211.59
   LOCATION L0012111     VOLUME   441052.199 3762076.673 211.59
   LOCATION L0012112     VOLUME   441061.199 3762076.673 211.59
   LOCATION L0012113     VOLUME   441070.199 3762076.672 211.55
   LOCATION L0012114     VOLUME   441079.199 3762076.672 211.52
   LOCATION L0012115     VOLUME   441088.199 3762076.671 211.48
   LOCATION L0012116     VOLUME   441097.199 3762076.671 211.42
   LOCATION L0012117     VOLUME   441106.199 3762076.670 211.35
   LOCATION L0012118     VOLUME   441115.199 3762076.669 211.30
   LOCATION L0012119     VOLUME   441124.199 3762076.669 211.31
   LOCATION L0012120     VOLUME   441133.199 3762076.668 211.32
   LOCATION L0012121     VOLUME   441142.199 3762076.668 211.33
   LOCATION L0012122     VOLUME   441151.199 3762076.667 211.35
** End of LINE VOLUME Source ID = SLINE3
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE4
** DESCRSRC Euclid s/o Edison
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.225274405
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** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
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** 439890.716, 3761445.744, 204.18, 3.11, 6.98
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   LOCATION L0012128     VOLUME   439897.167 3761982.181 209.36
   LOCATION L0012129     VOLUME   439896.987 3761967.182 209.22
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   LOCATION L0012131     VOLUME   439896.626 3761937.184 208.94
   LOCATION L0012132     VOLUME   439896.446 3761922.186 208.81
   LOCATION L0012133     VOLUME   439896.265 3761907.187 208.68
   LOCATION L0012134     VOLUME   439896.085 3761892.188 208.55
   LOCATION L0012135     VOLUME   439895.905 3761877.189 208.42
   LOCATION L0012136     VOLUME   439895.724 3761862.190 208.29
   LOCATION L0012137     VOLUME   439895.544 3761847.191 208.16
   LOCATION L0012138     VOLUME   439895.364 3761832.192 208.04
   LOCATION L0012139     VOLUME   439895.183 3761817.193 207.90
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   LOCATION L0012142     VOLUME   439894.642 3761772.196 207.49
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   LOCATION L0012144     VOLUME   439894.281 3761742.199 207.22
   LOCATION L0012145     VOLUME   439894.101 3761727.200 207.10
   LOCATION L0012146     VOLUME   439893.921 3761712.201 206.98
   LOCATION L0012147     VOLUME   439893.740 3761697.202 206.86
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   LOCATION L0012149     VOLUME   439893.379 3761667.204 206.59
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   LOCATION L0012151     VOLUME   439893.019 3761637.206 206.32
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   LOCATION L0012154     VOLUME   439892.477 3761592.209 205.96
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   LOCATION L0012158     VOLUME   439891.756 3761532.214 205.33
   LOCATION L0012159     VOLUME   439891.576 3761517.215 205.14
   LOCATION L0012160     VOLUME   439891.395 3761502.216 204.95
   LOCATION L0012161     VOLUME   439891.215 3761487.217 204.78
   LOCATION L0012162     VOLUME   439891.034 3761472.218 204.61
   LOCATION L0012163     VOLUME   439890.854 3761457.219 204.44
** End of LINE VOLUME Source ID = SLINE4
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE5
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** DESCRSRC Phase 2 CSTN Onsite
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 24
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** 440348.598, 3762471.486, 217.63, 3.11, 6.98
** 440349.366, 3762440.738, 215.82, 3.11, 6.98
** 440179.487, 3762439.201, 215.68, 3.11, 6.98
** 440180.256, 3762409.991, 215.40, 3.11, 6.98
** 440350.904, 3762415.372, 215.26, 3.11, 6.98
** 440350.135, 3762390.005, 215.00, 3.11, 6.98
** 440178.718, 3762386.162, 215.04, 3.11, 6.98
** 440177.950, 3762353.877, 214.63, 3.11, 6.98
** 440349.366, 3762360.027, 214.91, 3.11, 6.98
** 440347.060, 3762335.429, 214.85, 3.11, 6.98
** 440188.711, 3762329.279, 214.37, 3.11, 6.98
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** 440350.135, 3762230.119, 213.50, 3.11, 6.98
** 440181.024, 3762229.350, 213.13, 3.11, 6.98
** 440181.793, 3762198.603, 212.74, 3.11, 6.98
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** 440350.135, 3762164.781, 212.83, 3.11, 6.98
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** 439949.650, 3762120.966, 210.64, 3.11, 6.98
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   LOCATION L0011694     VOLUME   440303.901 3762470.887 217.40
   LOCATION L0011695     VOLUME   440318.899 3762471.088 217.49
   LOCATION L0011696     VOLUME   440333.898 3762471.289 217.58
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   LOCATION L0011703     VOLUME   440289.826 3762440.200 215.62
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   SRCPARAM L0011895     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011896     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011897     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011898     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011899     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011900     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011901     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011902     0.0054801881      3.11      6.98      2.89
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   SRCPARAM L0011982     0.0054801881      3.11      6.98      2.89
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   SRCPARAM L0011984     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011985     0.001971632      3.11      4.19      2.89
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   SRCPARAM L0012120     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012121     0.001971632      3.11      4.19      2.89
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   SRCPARAM L0012160     0.0054944977      3.11      6.98      2.89
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   SRCPARAM L0012163     0.0054944977      3.11      6.98      2.89
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   SRCPARAM L0011689     0.0048543689      3.11      6.98      2.89
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   SRCPARAM L0011691     0.0048543689      3.11      6.98      2.89
   SRCPARAM L0011692     0.0048543689      3.11      6.98      2.89
   SRCPARAM L0011693     0.0048543689      3.11      6.98      2.89
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   SRCPARAM L0011706     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011789     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011790     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011791     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011793     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011795     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011796     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011797     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011798     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011799     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011800     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011801     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011804     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011805     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011806     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011807     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011808     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011809     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011810     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011815     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011816     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011817     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011818     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011819     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011820     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011821     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011822     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011823     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011824     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011825     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011826     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011827     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011828     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011829     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011830     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011831     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011832     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011833     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011834     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011835     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011839     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011840     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011842     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011843     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011844     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011846     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011861     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011862     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011863     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011864     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011866     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011881     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011882     0.0048543689      3.11      6.98      2.89
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   SRCPARAM L0011890     0.0048543689      3.11      6.98      2.89
   SRCPARAM L0011891     0.0048543689      3.11      6.98      2.89
** ------------------------------------------------------------------
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "CSTN"
** WeekDays:
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   EMISFACT L0012164     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012164     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012164     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012165     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012165     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012165     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012165     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012166     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012166     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012166     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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   EMISFACT L0012167     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012167     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012167     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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   EMISFACT L0012168     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0012168     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012169     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012169     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0012170     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012170     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012170     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012171     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0012171     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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   EMISFACT L0012173     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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   EMISFACT L0012173     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0012175     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012175     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012175     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012737     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0012739     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0011849     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0011881     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0011882     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0011883     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0011883     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0011946     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0011919     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0011982     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
** Sunday:
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EMISFACT L0011955     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0011968     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT L0011993     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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RE FINISHED
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   PROFFILE KCNO_v9.PFL
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   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
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   PLOTFILE 1 P2ONSITE 1ST ONTARIOEUCLID_CONSTRUCTION.AD\01H1G003.PLT 34
   PLOTFILE PERIOD ALL ONTARIOEUCLID_CONSTRUCTION.AD\PE00GALL.PLT 35
   PLOTFILE PERIOD P1ONSITE ONTARIOEUCLID_CONSTRUCTION.AD\PE00G001.PLT 36
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** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 3/30/2023
** File: C:\Lakes\OntarioEuclid_Construction\OntarioEuclid_Construction.ADI
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   AVERTIME 1 PERIOD
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   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_Construction.err
CO FINISHED
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** AERMOD Source Pathway
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SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
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** Line Source Represented by Adjacent Volume Sources
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** DESCRSRC Phase 1 Onsite Construction
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.77
** SZINIT = 3.62
** Nodes = 48
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LOCATION L0012673 VOLUME 440326.768 3762292.897 214.30
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LOCATION L0012675 VOLUME 440296.768 3762292.809 214.39
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LOCATION L0012678 VOLUME 440251.768 3762292.677 213.37
LOCATION L0012679 VOLUME 440236.768 3762292.633 213.20

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LOCATION L0012683     VOLUME   440176.769 3762292.457 213.77
LOCATION L0012684     VOLUME   440161.769 3762292.413 213.60
LOCATION L0012685     VOLUME   440146.769 3762292.369 213.32
LOCATION L0012686     VOLUME   440131.769 3762292.325 213.21
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LOCATION L0012693     VOLUME   440026.769 3762292.017 213.22
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LOCATION L0012703     VOLUME   439983.618 3762264.324 212.64
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   LOCATION L0012735     VOLUME   439951.169 3762205.950 211.06
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   LOCATION L0012744     VOLUME   440086.111 3762209.918 212.79
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   LOCATION L0012766     VOLUME   439944.152 3762177.599 211.57
** End of LINE VOLUME Source ID = SLINE1
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE2
** DESCRSRC Euclid n/o Edison
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.498697121
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
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** 439907.161, 3763459.723, 227.22, 3.11, 6.98
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   LOCATION L0011895     VOLUME   439902.164 3762141.946 210.58
   LOCATION L0011896     VOLUME   439902.221 3762156.946 210.70
   LOCATION L0011897     VOLUME   439902.278 3762171.946 210.84
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   LOCATION L0011900     VOLUME   439902.448 3762216.945 211.35
   LOCATION L0011901     VOLUME   439902.505 3762231.945 211.56
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   LOCATION L0011904     VOLUME   439902.676 3762276.945 212.27
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   LOCATION L0011910     VOLUME   439903.017 3762366.944 213.66
   LOCATION L0011911     VOLUME   439903.074 3762381.944 213.85
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   LOCATION L0011913     VOLUME   439903.188 3762411.944 214.24
   LOCATION L0011914     VOLUME   439903.245 3762426.944 214.43
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   LOCATION L0011925     VOLUME   439903.870 3762591.943 216.34
   LOCATION L0011926     VOLUME   439903.927 3762606.942 216.53
   LOCATION L0011927     VOLUME   439903.984 3762621.942 216.74
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   LOCATION L0011929     VOLUME   439904.098 3762651.942 217.15
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   LOCATION L0011931     VOLUME   439904.212 3762681.942 217.57
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   LOCATION L0011945     VOLUME   439905.008 3762891.940 220.47
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   LOCATION L0011956     VOLUME   439905.634 3763056.939 222.31
   LOCATION L0011957     VOLUME   439905.691 3763071.939 222.47
   LOCATION L0011958     VOLUME   439905.748 3763086.939 222.65
   LOCATION L0011959     VOLUME   439905.805 3763101.939 222.84
   LOCATION L0011960     VOLUME   439905.861 3763116.939 223.02
   LOCATION L0011961     VOLUME   439905.918 3763131.939 223.20
   LOCATION L0011962     VOLUME   439905.975 3763146.939 223.42
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   LOCATION L0011964     VOLUME   439906.089 3763176.938 223.85
   LOCATION L0011965     VOLUME   439906.146 3763191.938 224.06
   LOCATION L0011966     VOLUME   439906.203 3763206.938 224.29
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   LOCATION L0011968     VOLUME   439906.317 3763236.938 224.76
   LOCATION L0011969     VOLUME   439906.373 3763251.938 224.99
   LOCATION L0011970     VOLUME   439906.430 3763266.938 225.18
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   LOCATION L0011977     VOLUME   439906.829 3763371.937 226.34
   LOCATION L0011978     VOLUME   439906.885 3763386.937 226.49
   LOCATION L0011979     VOLUME   439906.942 3763401.937 226.62
   LOCATION L0011980     VOLUME   439906.999 3763416.937 226.75
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   LOCATION L0011982     VOLUME   439907.113 3763446.936 227.02
** End of LINE VOLUME Source ID = SLINE2
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE3
** DESCRSRC Edison e/o Euclid
** PREFIX
** Length of Side = 9.00
** Configuration = Adjacent
** Emission Rate = 0.276028474
** Vertical Dimension = 6.22
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   LOCATION L0011985     VOLUME   439918.199 3762076.742 210.20
   LOCATION L0011986     VOLUME   439927.199 3762076.741 210.22
   LOCATION L0011987     VOLUME   439936.199 3762076.741 210.23
   LOCATION L0011988     VOLUME   439945.199 3762076.740 210.25
   LOCATION L0011989     VOLUME   439954.199 3762076.740 210.28
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   LOCATION L0011992     VOLUME   439981.199 3762076.738 210.25
   LOCATION L0011993     VOLUME   439990.199 3762076.738 210.25
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** Line Source Represented by Adjacent Volume Sources
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** DESCRSRC Euclid s/o Edison
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
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** Line Source Represented by Adjacent Volume Sources
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LOCATION L0011855 VOLUME 440225.508 3762127.862 211.54

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SRCPARAM L0012685     0.0016583748      3.89      6.98      3.62
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SRCPARAM L0012722     0.0016583748      3.89      6.98      3.62
SRCPARAM L0012723     0.0016583748      3.89      6.98      3.62
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SRCPARAM L0012733     0.0016583748      3.89      6.98      3.62
SRCPARAM L0012734     0.0016583748      3.89      6.98      3.62
SRCPARAM L0012735     0.0016583748      3.89      6.98      3.62
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   SRCPARAM L0012740     0.0016583748      3.89      6.98      3.62
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   SRCPARAM L0012764     0.0016583748      3.89      6.98      3.62
   SRCPARAM L0012765     0.0016583748      3.89      6.98      3.62
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   SRCPARAM L0011893     0.0054801881      3.11      6.98      2.89
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   SRCPARAM L0011895     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011896     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011897     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011898     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011899     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011900     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011901     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011902     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011903     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011904     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011905     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011906     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011907     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011908     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011909     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011910     0.0054801881      3.11      6.98      2.89
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SRCPARAM L0011911     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011912     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011913     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011914     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011915     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011916     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011917     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011918     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011919     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011920     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011921     0.0054801881      3.11      6.98      2.89
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SRCPARAM L0011924     0.0054801881      3.11      6.98      2.89
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SRCPARAM L0011926     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011927     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011928     0.0054801881      3.11      6.98      2.89
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SRCPARAM L0011930     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011931     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011932     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011933     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011934     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011935     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011936     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011937     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011938     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011939     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011940     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011941     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011942     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011943     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011944     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011945     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011946     0.0054801881      3.11      6.98      2.89
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SRCPARAM L0011949     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011950     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011951     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011952     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011953     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011954     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011955     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011956     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011957     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011958     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011959     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011960     0.0054801881      3.11      6.98      2.89
SRCPARAM L0011961     0.0054801881      3.11      6.98      2.89
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   SRCPARAM L0011962     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011963     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011964     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011965     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011966     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011967     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011968     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011969     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011970     0.0054801881      3.11      6.98      2.89
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   SRCPARAM L0011972     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011973     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011974     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011975     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011976     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011977     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011978     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011979     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011980     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011981     0.0054801881      3.11      6.98      2.89
   SRCPARAM L0011982     0.0054801881      3.11      6.98      2.89
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   SRCPARAM L0011985     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011986     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011987     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011988     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011989     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011990     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011991     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011992     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011993     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011994     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011995     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011996     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011997     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011998     0.001971632      3.11      4.19      2.89
   SRCPARAM L0011999     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012000     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012001     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012002     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012003     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012004     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012005     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012006     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012007     0.001971632      3.11      4.19      2.89
   SRCPARAM L0012008     0.001971632      3.11      4.19      2.89
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   SRCPARAM L0012010     0.001971632      3.11      4.19      2.89
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SRCPARAM L0012015     0.001971632      3.11      4.19      2.89
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SRCPARAM L0012019     0.001971632      3.11      4.19      2.89
SRCPARAM L0012020     0.001971632      3.11      4.19      2.89
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SRCPARAM L0012048     0.001971632      3.11      4.19      2.89
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SRCPARAM L0012052     0.001971632      3.11      4.19      2.89
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SRCPARAM L0012054     0.001971632      3.11      4.19      2.89
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SRCPARAM L0012059     0.001971632      3.11      4.19      2.89
SRCPARAM L0012060     0.001971632      3.11      4.19      2.89
SRCPARAM L0012061     0.001971632      3.11      4.19      2.89
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   SRCPARAM L0012163     0.0054944977      3.11      6.98      2.89
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   SRCPARAM L0011693     0.0048543689      3.11      6.98      2.89
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SRCPARAM L0011865     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011866     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011867     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011868     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011869     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011870     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011871     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011872     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011873     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011874     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011875     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011876     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011877     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011878     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011879     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011880     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011881     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011882     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011883     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011884     0.0048543689      3.11      6.98      2.89
SRCPARAM L0011885     0.0048543689      3.11      6.98      2.89
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   SRCPARAM L0011886     0.0048543689      3.11      6.98      2.89
   SRCPARAM L0011887     0.0048543689      3.11      6.98      2.89
   SRCPARAM L0011888     0.0048543689      3.11      6.98      2.89
   SRCPARAM L0011889     0.0048543689      3.11      6.98      2.89
   SRCPARAM L0011890     0.0048543689      3.11      6.98      2.89
   SRCPARAM L0011891     0.0048543689      3.11      6.98      2.89
** ------------------------------------------------------------------
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Day (HRDOW)"
** Variable Emission Scenario: "CSTN"
** WeekDays:
   EMISFACT L0012164     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012164     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012164     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012164     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012165     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012165     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012165     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012165     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012166     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012166     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012166     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012166     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012167     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012167     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012167     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012167     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012168     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012168     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012168     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012168     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012169     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012169     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012169     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012169     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012170     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012170     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012170     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012170     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012171     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012171     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012171     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012171     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012172     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012172     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012172     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
   EMISFACT L0012172     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012173     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT L0012173     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
   EMISFACT L0012173     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012174     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0012174     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012175     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012175     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012175     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012175     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012176     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012176     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012176     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012177     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012177     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012177     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012177     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012178     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012178     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012178     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012179     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012179     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012179     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012180     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012181     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012181     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
EMISFACT L0012181     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
EMISFACT L0012181     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012182     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012182     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0012183     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0012183     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012185     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012186     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012186     HRDOW 0.0 1.0 1.0 1.0 1.0 1.0
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EMISFACT L0012199     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0012213     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0012213     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012215     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0011734     HRDOW 1.0 1.0 1.0 0.0 0.0 0.0
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EMISFACT L0012143     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012144     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0012145     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT L0012146     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT L0012158     HRDOW 0.0 0.0 0.0 0.0 0.0 0.0
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** Sunday:
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SRCGROUP P1OFFSIT L0011952 L0011953 L0011954 L0011955 L0011956 L0011957
SRCGROUP P1OFFSIT L0011958 L0011959 L0011960 L0011961 L0011962 L0011963
SRCGROUP P1OFFSIT L0011964 L0011965 L0011966 L0011967 L0011968 L0011969
SRCGROUP P1OFFSIT L0011970 L0011971 L0011972 L0011973 L0011974 L0011975
SRCGROUP P1OFFSIT L0011976 L0011977 L0011978 L0011979 L0011980 L0011981
SRCGROUP P1OFFSIT L0011982 L0011983 L0011984 L0011985 L0011986 L0011987
SRCGROUP P1OFFSIT L0011988 L0011989 L0011990 L0011991 L0011992 L0011993
SRCGROUP P1OFFSIT L0011994 L0011995 L0011996 L0011997 L0011998 L0011999
SRCGROUP P1OFFSIT L0012000 L0012001 L0012002 L0012003 L0012004 L0012005
SRCGROUP P1OFFSIT L0012006 L0012007 L0012008 L0012009 L0012010 L0012011
SRCGROUP P1OFFSIT L0012012 L0012013 L0012014 L0012015 L0012016 L0012017
SRCGROUP P1OFFSIT L0012018 L0012019 L0012020 L0012021 L0012022 L0012023
SRCGROUP P1OFFSIT L0012024 L0012025 L0012026 L0012027 L0012028 L0012029
SRCGROUP P1OFFSIT L0012030 L0012031 L0012032 L0012033 L0012034 L0012035
SRCGROUP P1OFFSIT L0012036 L0012037 L0012038 L0012039 L0012040 L0012041
SRCGROUP P1OFFSIT L0012042 L0012043 L0012044 L0012045 L0012046 L0012047
SRCGROUP P1OFFSIT L0012048 L0012049 L0012050 L0012051 L0012052 L0012053
SRCGROUP P1OFFSIT L0012054 L0012055 L0012056 L0012057 L0012058 L0012059
SRCGROUP P1OFFSIT L0012060 L0012061 L0012062 L0012063 L0012064 L0012065
SRCGROUP P1OFFSIT L0012066 L0012067 L0012068 L0012069 L0012070 L0012071
SRCGROUP P1OFFSIT L0012072 L0012073 L0012074 L0012075 L0012076 L0012077
SRCGROUP P1OFFSIT L0012078 L0012079 L0012080 L0012081 L0012082 L0012083
SRCGROUP P1OFFSIT L0012084 L0012085 L0012086 L0012087 L0012088 L0012089
SRCGROUP P1OFFSIT L0012090 L0012091 L0012092 L0012093 L0012094 L0012095
SRCGROUP P1OFFSIT L0012096 L0012097 L0012098 L0012099 L0012100 L0012101
SRCGROUP P1OFFSIT L0012102 L0012103 L0012104 L0012105 L0012106 L0012107
SRCGROUP P1OFFSIT L0012108 L0012109 L0012110 L0012111 L0012112 L0012113
SRCGROUP P1OFFSIT L0012114 L0012115 L0012116 L0012117 L0012118 L0012119
SRCGROUP P1OFFSIT L0012120 L0012121 L0012122 L0012123 L0012124 L0012125
SRCGROUP P1OFFSIT L0012126 L0012127 L0012128 L0012129 L0012130 L0012131
SRCGROUP P1OFFSIT L0012132 L0012133 L0012134 L0012135 L0012136 L0012137
SRCGROUP P1OFFSIT L0012138 L0012139 L0012140 L0012141 L0012142 L0012143
SRCGROUP P1OFFSIT L0012144 L0012145 L0012146 L0012147 L0012148 L0012149
SRCGROUP P1OFFSIT L0012150 L0012151 L0012152 L0012153 L0012154 L0012155
SRCGROUP P1OFFSIT L0012156 L0012157 L0012158 L0012159 L0012160 L0012161
SRCGROUP P1OFFSIT L0012162 L0012163
SRCGROUP P2ONSITE L0011686 L0011687 L0011688 L0011689 L0011690 L0011691
SRCGROUP P2ONSITE L0011692 L0011693 L0011694 L0011695 L0011696 L0011697
SRCGROUP P2ONSITE L0011698 L0011699 L0011700 L0011701 L0011702 L0011703
SRCGROUP P2ONSITE L0011704 L0011705 L0011706 L0011707 L0011708 L0011709
SRCGROUP P2ONSITE L0011710 L0011711 L0011712 L0011713 L0011714 L0011715
SRCGROUP P2ONSITE L0011716 L0011717 L0011718 L0011719 L0011720 L0011721
SRCGROUP P2ONSITE L0011722 L0011723 L0011724 L0011725 L0011726 L0011727
SRCGROUP P2ONSITE L0011728 L0011729 L0011730 L0011731 L0011732 L0011733
SRCGROUP P2ONSITE L0011734 L0011735 L0011736 L0011737 L0011738 L0011739
SRCGROUP P2ONSITE L0011740 L0011741 L0011742 L0011743 L0011744 L0011745
SRCGROUP P2ONSITE L0011746 L0011747 L0011748 L0011749 L0011750 L0011751
SRCGROUP P2ONSITE L0011752 L0011753 L0011754 L0011755 L0011756 L0011757
SRCGROUP P2ONSITE L0011758 L0011759 L0011760 L0011761 L0011762 L0011763
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   SRCGROUP P2ONSITE L0011764 L0011765 L0011766 L0011767 L0011768 L0011769
   SRCGROUP P2ONSITE L0011770 L0011771 L0011772 L0011773 L0011774 L0011775
   SRCGROUP P2ONSITE L0011776 L0011777 L0011778 L0011779 L0011780 L0011781
   SRCGROUP P2ONSITE L0011782 L0011783 L0011784 L0011785 L0011786 L0011787
   SRCGROUP P2ONSITE L0011788 L0011789 L0011790 L0011791 L0011792 L0011793
   SRCGROUP P2ONSITE L0011794 L0011795 L0011796 L0011797 L0011798 L0011799
   SRCGROUP P2ONSITE L0011800 L0011801 L0011802 L0011803 L0011804 L0011805
   SRCGROUP P2ONSITE L0011806 L0011807 L0011808 L0011809 L0011810 L0011811
   SRCGROUP P2ONSITE L0011812 L0011813 L0011814 L0011815 L0011816 L0011817
   SRCGROUP P2ONSITE L0011818 L0011819 L0011820 L0011821 L0011822 L0011823
   SRCGROUP P2ONSITE L0011824 L0011825 L0011826 L0011827 L0011828 L0011829
   SRCGROUP P2ONSITE L0011830 L0011831 L0011832 L0011833 L0011834 L0011835
   SRCGROUP P2ONSITE L0011836 L0011837 L0011838 L0011839 L0011840 L0011841
   SRCGROUP P2ONSITE L0011842 L0011843 L0011844 L0011845 L0011846 L0011847
   SRCGROUP P2ONSITE L0011848 L0011849 L0011850 L0011851 L0011852 L0011853
   SRCGROUP P2ONSITE L0011854 L0011855 L0011856 L0011857 L0011858 L0011859
   SRCGROUP P2ONSITE L0011860 L0011861 L0011862 L0011863 L0011864 L0011865
   SRCGROUP P2ONSITE L0011866 L0011867 L0011868 L0011869 L0011870 L0011871
   SRCGROUP P2ONSITE L0011872 L0011873 L0011874 L0011875 L0011876 L0011877
   SRCGROUP P2ONSITE L0011878 L0011879 L0011880 L0011881 L0011882 L0011883
   SRCGROUP P2ONSITE L0011884 L0011885 L0011886 L0011887 L0011888 L0011889
   SRCGROUP P2ONSITE L0011890 L0011891
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_Construction.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
```

```
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_CONSTRUCTION.AD\01H1GALL.PLT 31
   PLOTFILE 1 P1ONSITE 1ST ONTARIOEUCLID_CONSTRUCTION.AD\01H1G001.PLT 32
   PLOTFILE 1 P1OFFSIT 1ST ONTARIOEUCLID_CONSTRUCTION.AD\01H1G002.PLT 33
   PLOTFILE 1 P2ONSITE 1ST ONTARIOEUCLID_CONSTRUCTION.AD\01H1G003.PLT 34
   PLOTFILE PERIOD ALL ONTARIOEUCLID_CONSTRUCTION.AD\PE00GALL.PLT 35
   PLOTFILE PERIOD P1ONSITE ONTARIOEUCLID_CONSTRUCTION.AD\PE00G001.PLT 36
   PLOTFILE PERIOD P1OFFSIT ONTARIOEUCLID_CONSTRUCTION.AD\PE00G002.PLT 37
   PLOTFILE PERIOD P2ONSITE ONTARIOEUCLID_CONSTRUCTION.AD\PE00G003.PLT 38
   SUMMFILE OntarioEuclid_Construction.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186   15549       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187   15549       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
```

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- - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for  1081 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
         1. Stack-tip Downwash.
         2. Model Accounts for ELEVated Terrain Effects.
         3. Use Calms Processing Routine.
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:   1081 Source(s);       4 Source Group(s); and     516
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:   1081 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216
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 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   198.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      4.7 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   OntarioEuclid_Construction.err

 **File for Summary of Results:   OntarioEuclid_Construction.sum

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:25:05

                                   PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -
```

```
 L0012164         0   0.16584E-02  439950.0 3762855.8   220.0     3.89     6.98
3.62     YES   HRDOW
 L0012165         0   0.16584E-02  439965.0 3762855.9   220.0     3.89     6.98
3.62     YES   HRDOW
 L0012166         0   0.16584E-02  439980.0 3762856.0   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012167         0   0.16584E-02  439995.0 3762856.0   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012168         0   0.16584E-02  440010.0 3762856.1   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012169         0   0.16584E-02  440025.0 3762856.2   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012170         0   0.16584E-02  440040.0 3762856.2   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012171         0   0.16584E-02  440055.0 3762856.3   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012172         0   0.16584E-02  440070.0 3762856.4   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012173         0   0.16584E-02  440085.0 3762856.4   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012174         0   0.16584E-02  440100.0 3762856.5   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012175         0   0.16584E-02  440115.0 3762856.6   220.2     3.89     6.98
3.62     YES   HRDOW
 L0012176         0   0.16584E-02  440130.0 3762856.6   220.2     3.89     6.98
3.62     YES   HRDOW
 L0012177         0   0.16584E-02  440145.0 3762856.7   220.2     3.89     6.98
3.62     YES   HRDOW
 L0012178         0   0.16584E-02  440160.0 3762856.8   220.3     3.89     6.98
3.62     YES   HRDOW
 L0012179         0   0.16584E-02  440175.0 3762856.8   220.3     3.89     6.98
3.62     YES   HRDOW
 L0012180         0   0.16584E-02  440190.0 3762856.9   220.4     3.89     6.98
3.62     YES   HRDOW
 L0012181         0   0.16584E-02  440205.0 3762857.0   220.4     3.89     6.98
3.62     YES   HRDOW
 L0012182         0   0.16584E-02  440220.0 3762857.0   220.5     3.89     6.98
3.62     YES   HRDOW
 L0012183         0   0.16584E-02  440235.0 3762857.1   220.5     3.89     6.98
3.62     YES   HRDOW
 L0012184         0   0.16584E-02  440250.0 3762857.2   220.5     3.89     6.98
3.62     YES   HRDOW
 L0012185         0   0.16584E-02  440265.0 3762857.2   220.5     3.89     6.98
3.62     YES   HRDOW
 L0012186         0   0.16584E-02  440280.0 3762857.3   220.6     3.89     6.98
3.62     YES   HRDOW
 L0012187         0   0.16584E-02  440295.0 3762857.4   220.7     3.89     6.98
3.62     YES   HRDOW
 L0012188         0   0.16584E-02  440310.0 3762857.4   220.7     3.89     6.98
3.62     YES   HRDOW
 L0012189         0   0.16584E-02  440325.0 3762857.5   220.8     3.89     6.98
```

3.62 YES HRDOW
L0012190 0 0.16584E-02 440340.0 3762857.6 220.8 3.89 6.98
3.62 YES HRDOW
L0012191 0 0.16584E-02 440353.1 3762855.7 220.8 3.89 6.98
3.62 YES HRDOW
L0012192 0 0.16584E-02 440353.1 3762840.7 220.6 3.89 6.98
3.62 YES HRDOW
L0012193 0 0.16584E-02 440348.2 3762830.5 220.5 3.89 6.98
3.62 YES HRDOW
L0012194 0 0.16584E-02 440333.2 3762830.4 220.4 3.89 6.98
3.62 YES HRDOW
L0012195 0 0.16584E-02 440318.2 3762830.3 220.4 3.89 6.98
3.62 YES HRDOW
L0012196 0 0.16584E-02 440303.2 3762830.2 220.5 3.89 6.98
3.62 YES HRDOW
L0012197 0 0.16584E-02 440288.2 3762830.1 220.4 3.89 6.98
3.62 YES HRDOW
L0012198 0 0.16584E-02 440273.2 3762830.1 220.1 3.89 6.98
3.62 YES HRDOW
L0012199 0 0.16584E-02 440258.2 3762830.0 220.1 3.89 6.98
3.62 YES HRDOW
L0012200 0 0.16584E-02 440243.2 3762829.9 220.1 3.89 6.98
3.62 YES HRDOW
L0012201 0 0.16584E-02 440228.2 3762829.8 220.2 3.89 6.98
3.62 YES HRDOW
L0012202 0 0.16584E-02 440213.2 3762829.7 220.1 3.89 6.98
3.62 YES HRDOW
L0012203 0 0.16584E-02 440198.2 3762829.6 220.0 3.89 6.98
3.62 YES HRDOW

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012204	0	0.16584E-02	440183.2	3762829.5	219.9	3.89	6.98	3.62	YES	HRDOW

L0012205	0	0.16584E-02	440168.2	3762829.4	219.8	3.89	6.98	
3.62	YES	HRDOW						
L0012206	0	0.16584E-02	440153.2	3762829.4	219.8	3.89	6.98	
3.62	YES	HRDOW						
L0012207	0	0.16584E-02	440138.2	3762829.3	219.8	3.89	6.98	
3.62	YES	HRDOW						
L0012208	0	0.16584E-02	440123.2	3762829.2	219.8	3.89	6.98	
3.62	YES	HRDOW						
L0012209	0	0.16584E-02	440108.2	3762829.1	219.7	3.89	6.98	
3.62	YES	HRDOW						
L0012210	0	0.16584E-02	440093.2	3762829.0	219.7	3.89	6.98	
3.62	YES	HRDOW						
L0012211	0	0.16584E-02	440078.2	3762828.9	219.7	3.89	6.98	
3.62	YES	HRDOW						
L0012212	0	0.16584E-02	440063.2	3762828.8	219.8	3.89	6.98	
3.62	YES	HRDOW						
L0012213	0	0.16584E-02	440048.2	3762828.7	219.8	3.89	6.98	
3.62	YES	HRDOW						
L0012214	0	0.16584E-02	440033.2	3762828.6	219.8	3.89	6.98	
3.62	YES	HRDOW						
L0012215	0	0.16584E-02	440018.2	3762828.6	219.8	3.89	6.98	
3.62	YES	HRDOW						
L0012216	0	0.16584E-02	440003.2	3762828.5	219.7	3.89	6.98	
3.62	YES	HRDOW						
L0012217	0	0.16584E-02	439988.2	3762828.4	219.7	3.89	6.98	
3.62	YES	HRDOW						
L0012218	0	0.16584E-02	439973.2	3762828.3	219.7	3.89	6.98	
3.62	YES	HRDOW						
L0012219	0	0.16584E-02	439958.2	3762828.2	219.7	3.89	6.98	
3.62	YES	HRDOW						
L0012220	0	0.16584E-02	439943.7	3762827.6	219.6	3.89	6.98	
3.62	YES	HRDOW						
L0012221	0	0.16584E-02	439943.2	3762812.6	219.5	3.89	6.98	
3.62	YES	HRDOW						
L0012222	0	0.16584E-02	439942.6	3762797.6	219.3	3.89	6.98	
3.62	YES	HRDOW						
L0012223	0	0.16584E-02	439956.1	3762796.4	219.4	3.89	6.98	
3.62	YES	HRDOW						
L0012224	0	0.16584E-02	439971.1	3762796.5	219.4	3.89	6.98	
3.62	YES	HRDOW						
L0012225	0	0.16584E-02	439986.1	3762796.7	219.4	3.89	6.98	
3.62	YES	HRDOW						
L0012226	0	0.16584E-02	440001.1	3762796.8	219.5	3.89	6.98	
3.62	YES	HRDOW						
L0012227	0	0.16584E-02	440016.1	3762797.0	219.5	3.89	6.98	
3.62	YES	HRDOW						
L0012228	0	0.16584E-02	440031.1	3762797.1	219.5	3.89	6.98	
3.62	YES	HRDOW						
L0012229	0	0.16584E-02	440046.1	3762797.3	219.5	3.89	6.98	
3.62	YES	HRDOW						
L0012230	0	0.16584E-02	440061.1	3762797.4	219.5	3.89	6.98	

3.62   YES   HRDOW
 L0012231   0   0.16584E-02 440076.1 3762797.6   219.5   3.89   6.98
3.62   YES   HRDOW
 L0012232   0   0.16584E-02 440091.1 3762797.7   219.4   3.89   6.98
3.62   YES   HRDOW
 L0012233   0   0.16584E-02 440106.1 3762797.9   219.5   3.89   6.98
3.62   YES   HRDOW
 L0012234   0   0.16584E-02 440121.1 3762798.1   219.5   3.89   6.98
3.62   YES   HRDOW
 L0012235   0   0.16584E-02 440136.1 3762798.2   219.4   3.89   6.98
3.62   YES   HRDOW
 L0012236   0   0.16584E-02 440151.1 3762798.4   219.4   3.89   6.98
3.62   YES   HRDOW
 L0012237   0   0.16584E-02 440166.1 3762798.5   219.4   3.89   6.98
3.62   YES   HRDOW
 L0012238   0   0.16584E-02 440181.1 3762798.7   219.6   3.89   6.98
3.62   YES   HRDOW
 L0012239   0   0.16584E-02 440196.1 3762798.8   219.8   3.89   6.98
3.62   YES   HRDOW
 L0012240   0   0.16584E-02 440211.1 3762799.0   219.9   3.89   6.98
3.62   YES   HRDOW
 L0012241   0   0.16584E-02 440226.1 3762799.1   220.0   3.89   6.98
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 L0012242   0   0.16584E-02 440241.1 3762799.3   220.0   3.89   6.98
3.62   YES   HRDOW
 L0012243   0   0.16584E-02 440256.1 3762799.4   219.9   3.89   6.98
3.62   YES   HRDOW

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - - -

 L0012244   0   0.16584E-02 440271.1 3762799.6   219.9   3.89   6.98
3.62   YES   HRDOW
 L0012245   0   0.16584E-02 440286.1 3762799.8   220.0   3.89   6.98
3.62   YES   HRDOW

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 L0012246         0   0.16584E-02  440301.1 3762799.9   220.1     3.89     6.98
3.62     YES   HRDOW
 L0012247         0   0.16584E-02  440316.1 3762800.1   219.9     3.89     6.98
3.62     YES   HRDOW
 L0012248         0   0.16584E-02  440331.1 3762800.2   219.9     3.89     6.98
3.62     YES   HRDOW
 L0012249         0   0.16584E-02  440346.1 3762800.4   220.0     3.89     6.98
3.62     YES   HRDOW
 L0012250         0   0.16584E-02  440351.5 3762790.6   219.8     3.89     6.98
3.62     YES   HRDOW
 L0012251         0   0.16584E-02  440351.8 3762775.6   219.6     3.89     6.98
3.62     YES   HRDOW
 L0012252         0   0.16584E-02  440340.3 3762772.1   219.5     3.89     6.98
3.62     YES   HRDOW
 L0012253         0   0.16584E-02  440325.3 3762772.1   219.4     3.89     6.98
3.62     YES   HRDOW
 L0012254         0   0.16584E-02  440310.3 3762772.0   219.3     3.89     6.98
3.62     YES   HRDOW
 L0012255         0   0.16584E-02  440295.3 3762772.0   219.3     3.89     6.98
3.62     YES   HRDOW
 L0012256         0   0.16584E-02  440280.3 3762771.9   219.6     3.89     6.98
3.62     YES   HRDOW
 L0012257         0   0.16584E-02  440265.3 3762771.9   219.7     3.89     6.98
3.62     YES   HRDOW
 L0012258         0   0.16584E-02  440250.3 3762771.8   219.8     3.89     6.98
3.62     YES   HRDOW
 L0012259         0   0.16584E-02  440235.3 3762771.8   219.8     3.89     6.98
3.62     YES   HRDOW
 L0012260         0   0.16584E-02  440220.3 3762771.8   219.8     3.89     6.98
3.62     YES   HRDOW
 L0012261         0   0.16584E-02  440205.3 3762771.7   219.6     3.89     6.98
3.62     YES   HRDOW
 L0012262         0   0.16584E-02  440190.3 3762771.7   219.5     3.89     6.98
3.62     YES   HRDOW
 L0012263         0   0.16584E-02  440175.3 3762771.6   219.3     3.89     6.98
3.62     YES   HRDOW
 L0012264         0   0.16584E-02  440160.3 3762771.6   219.2     3.89     6.98
3.62     YES   HRDOW
 L0012265         0   0.16584E-02  440145.3 3762771.5   219.1     3.89     6.98
3.62     YES   HRDOW
 L0012266         0   0.16584E-02  440130.3 3762771.5   219.2     3.89     6.98
3.62     YES   HRDOW
 L0012267         0   0.16584E-02  440115.3 3762771.4   219.2     3.89     6.98
3.62     YES   HRDOW
 L0012268         0   0.16584E-02  440100.3 3762771.4   219.2     3.89     6.98
3.62     YES   HRDOW
 L0012269         0   0.16584E-02  440085.3 3762771.4   219.2     3.89     6.98
3.62     YES   HRDOW
 L0012270         0   0.16584E-02  440070.3 3762771.3   219.3     3.89     6.98
3.62     YES   HRDOW
 L0012271         0   0.16584E-02  440055.3 3762771.3   219.3     3.89     6.98
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012284	0	0.16584E-02	439990.4	3762737.0	218.8	3.89	6.98	3.62	YES	HRDOW
L0012285	0	0.16584E-02	440005.4	3762737.3	218.9	3.89	6.98	3.62	YES	HRDOW
L0012286	0	0.16584E-02	440020.4	3762737.6	218.9	3.89	6.98	3.62	YES	HRDOW

L0012287	0	0.16584E-02	440035.4	3762737.9	218.9	3.89	6.98	
3.62	YES	HRDOW						
L0012288	0	0.16584E-02	440050.4	3762738.2	218.9	3.89	6.98	
3.62	YES	HRDOW						
L0012289	0	0.16584E-02	440065.4	3762738.5	218.9	3.89	6.98	
3.62	YES	HRDOW						
L0012290	0	0.16584E-02	440080.4	3762738.8	218.9	3.89	6.98	
3.62	YES	HRDOW						
L0012291	0	0.16584E-02	440095.4	3762739.2	218.9	3.89	6.98	
3.62	YES	HRDOW						
L0012292	0	0.16584E-02	440110.4	3762739.5	218.9	3.89	6.98	
3.62	YES	HRDOW						
L0012293	0	0.16584E-02	440125.4	3762739.8	218.9	3.89	6.98	
3.62	YES	HRDOW						
L0012294	0	0.16584E-02	440140.4	3762740.1	218.8	3.89	6.98	
3.62	YES	HRDOW						
L0012295	0	0.16584E-02	440155.4	3762740.4	219.0	3.89	6.98	
3.62	YES	HRDOW						
L0012296	0	0.16584E-02	440170.4	3762740.7	219.2	3.89	6.98	
3.62	YES	HRDOW						
L0012297	0	0.16584E-02	440185.4	3762741.0	219.4	3.89	6.98	
3.62	YES	HRDOW						
L0012298	0	0.16584E-02	440200.4	3762741.3	219.5	3.89	6.98	
3.62	YES	HRDOW						
L0012299	0	0.16584E-02	440215.3	3762741.6	219.5	3.89	6.98	
3.62	YES	HRDOW						
L0012300	0	0.16584E-02	440230.3	3762741.9	219.5	3.89	6.98	
3.62	YES	HRDOW						
L0012301	0	0.16584E-02	440245.3	3762742.2	219.5	3.89	6.98	
3.62	YES	HRDOW						
L0012302	0	0.16584E-02	440260.3	3762742.6	219.4	3.89	6.98	
3.62	YES	HRDOW						
L0012303	0	0.16584E-02	440275.3	3762742.9	219.2	3.89	6.98	
3.62	YES	HRDOW						
L0012304	0	0.16584E-02	440290.3	3762743.2	218.9	3.89	6.98	
3.62	YES	HRDOW						
L0012305	0	0.16584E-02	440305.3	3762743.5	218.8	3.89	6.98	
3.62	YES	HRDOW						
L0012306	0	0.16584E-02	440320.3	3762743.8	219.0	3.89	6.98	
3.62	YES	HRDOW						
L0012307	0	0.16584E-02	440335.3	3762744.1	219.1	3.89	6.98	
3.62	YES	HRDOW						
L0012308	0	0.16584E-02	440350.3	3762744.4	219.3	3.89	6.98	
3.62	YES	HRDOW						
L0012309	0	0.16584E-02	440352.1	3762731.0	219.2	3.89	6.98	
3.62	YES	HRDOW						
L0012310	0	0.16584E-02	440352.5	3762716.0	219.0	3.89	6.98	
3.62	YES	HRDOW						
L0012311	0	0.16584E-02	440338.5	3762714.6	218.8	3.89	6.98	
3.62	YES	HRDOW						
L0012312	0	0.16584E-02	440323.5	3762714.3	218.6	3.89	6.98	

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3.62     YES   HRDOW
 L0012313         0   0.16584E-02  440308.5 3762714.0   218.5     3.89     6.98
3.62     YES   HRDOW
 L0012314         0   0.16584E-02  440293.5 3762713.7   218.4     3.89     6.98
3.62     YES   HRDOW
 L0012315         0   0.16584E-02  440278.5 3762713.3   218.8     3.89     6.98
3.62     YES   HRDOW
 L0012316         0   0.16584E-02  440263.5 3762713.0   219.1     3.89     6.98
3.62     YES   HRDOW
 L0012317         0   0.16584E-02  440248.5 3762712.7   219.2     3.89     6.98
3.62     YES   HRDOW
 L0012318         0   0.16584E-02  440233.6 3762712.3   219.2     3.89     6.98
3.62     YES   HRDOW
 L0012319         0   0.16584E-02  440218.6 3762712.0   219.1     3.89     6.98
3.62     YES   HRDOW
 L0012320         0   0.16584E-02  440203.6 3762711.7   219.3     3.89     6.98
3.62     YES   HRDOW
 L0012321         0   0.16584E-02  440188.6 3762711.3   219.3     3.89     6.98
3.62     YES   HRDOW
 L0012322         0   0.16584E-02  440173.6 3762711.0   219.1     3.89     6.98
3.62     YES   HRDOW
 L0012323         0   0.16584E-02  440158.6 3762710.7   218.8     3.89     6.98
3.62     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0012324         0   0.16584E-02  440143.6 3762710.3   218.5     3.89     6.98
3.62     YES   HRDOW
 L0012325         0   0.16584E-02  440128.6 3762710.0   218.5     3.89     6.98
3.62     YES   HRDOW
 L0012326         0   0.16584E-02  440113.6 3762709.7   218.5     3.89     6.98
3.62     YES   HRDOW
 L0012327         0   0.16584E-02  440098.6 3762709.4   218.5     3.89     6.98
3.62     YES   HRDOW
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 L0012328         0   0.16584E-02  440083.6 3762709.0   218.6     3.89     6.98
3.62     YES   HRDOW
 L0012329         0   0.16584E-02  440068.6 3762708.7   218.6     3.89     6.98
3.62     YES   HRDOW
 L0012330         0   0.16584E-02  440053.6 3762708.4   218.6     3.89     6.98
3.62     YES   HRDOW
 L0012331         0   0.16584E-02  440038.6 3762708.0   218.6     3.89     6.98
3.62     YES   HRDOW
 L0012332         0   0.16584E-02  440023.6 3762707.7   218.6     3.89     6.98
3.62     YES   HRDOW
 L0012333         0   0.16584E-02  440008.6 3762707.4   218.5     3.89     6.98
3.62     YES   HRDOW
 L0012334         0   0.16584E-02  439993.6 3762707.0   218.5     3.89     6.98
3.62     YES   HRDOW
 L0012335         0   0.16584E-02  439978.6 3762706.7   218.4     3.89     6.98
3.62     YES   HRDOW
 L0012336         0   0.16584E-02  439963.6 3762706.4   218.4     3.89     6.98
3.62     YES   HRDOW
 L0012337         0   0.16584E-02  439948.6 3762706.0   218.3     3.89     6.98
3.62     YES   HRDOW
 L0012338         0   0.16584E-02  439943.0 3762696.4   218.1     3.89     6.98
3.62     YES   HRDOW
 L0012339         0   0.16584E-02  439942.7 3762681.4   217.9     3.89     6.98
3.62     YES   HRDOW
 L0012340         0   0.16584E-02  439950.1 3762674.2   217.9     3.89     6.98
3.62     YES   HRDOW
 L0012341         0   0.16584E-02  439965.1 3762674.7   217.9     3.89     6.98
3.62     YES   HRDOW
 L0012342         0   0.16584E-02  439980.1 3762675.1   218.0     3.89     6.98
3.62     YES   HRDOW
 L0012343         0   0.16584E-02  439995.1 3762675.5   218.0     3.89     6.98
3.62     YES   HRDOW
 L0012344         0   0.16584E-02  440010.1 3762675.9   218.1     3.89     6.98
3.62     YES   HRDOW
 L0012345         0   0.16584E-02  440025.1 3762676.3   218.1     3.89     6.98
3.62     YES   HRDOW
 L0012346         0   0.16584E-02  440040.1 3762676.7   218.2     3.89     6.98
3.62     YES   HRDOW
 L0012347         0   0.16584E-02  440055.1 3762677.2   218.2     3.89     6.98
3.62     YES   HRDOW
 L0012348         0   0.16584E-02  440070.1 3762677.6   218.2     3.89     6.98
3.62     YES   HRDOW
 L0012349         0   0.16584E-02  440085.1 3762678.0   218.1     3.89     6.98
3.62     YES   HRDOW
 L0012350         0   0.16584E-02  440100.1 3762678.4   218.1     3.89     6.98
3.62     YES   HRDOW
 L0012351         0   0.16584E-02  440115.1 3762678.8   218.1     3.89     6.98
3.62     YES   HRDOW
 L0012352         0   0.16584E-02  440130.1 3762679.3   218.0     3.89     6.98
3.62     YES   HRDOW
 L0012353         0   0.16584E-02  440145.1 3762679.7   218.0     3.89     6.98
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0012364	0	0.16584E-02	440310.0	3762684.3	218.1	3.89	6.98	3.62	YES HRDOW
L0012365	0	0.16584E-02	440325.0	3762684.7	218.3	3.89	6.98	3.62	YES HRDOW
L0012366	0	0.16584E-02	440340.0	3762685.1	218.5	3.89	6.98	3.62	YES HRDOW
L0012367	0	0.16584E-02	440351.3	3762681.7	218.7	3.89	6.98	3.62	YES HRDOW
L0012368	0	0.16584E-02	440351.3	3762666.7	218.5	3.89	6.98	3.62	YES HRDOW

L0012369	0	0.16584E-02	440347.0	3762655.8	218.4	3.89	6.98	3.62
YES	HRDOW							
L0012370	0	0.16584E-02	440332.1	3762655.3	218.1	3.89	6.98	3.62
YES	HRDOW							
L0012371	0	0.16584E-02	440317.1	3762654.8	217.8	3.89	6.98	3.62
YES	HRDOW							
L0012372	0	0.16584E-02	440302.1	3762654.3	217.7	3.89	6.98	3.62
YES	HRDOW							
L0012373	0	0.16584E-02	440287.1	3762653.8	217.9	3.89	6.98	3.62
YES	HRDOW							
L0012374	0	0.16584E-02	440272.1	3762653.3	218.2	3.89	6.98	3.62
YES	HRDOW							
L0012375	0	0.16584E-02	440257.1	3762652.8	218.3	3.89	6.98	3.62
YES	HRDOW							
L0012376	0	0.16584E-02	440242.1	3762652.3	218.4	3.89	6.98	3.62
YES	HRDOW							
L0012377	0	0.16584E-02	440227.1	3762651.7	218.4	3.89	6.98	3.62
YES	HRDOW							
L0012378	0	0.16584E-02	440212.1	3762651.2	218.3	3.89	6.98	3.62
YES	HRDOW							
L0012379	0	0.16584E-02	440197.1	3762650.7	218.2	3.89	6.98	3.62
YES	HRDOW							
L0012380	0	0.16584E-02	440182.1	3762650.2	218.0	3.89	6.98	3.62
YES	HRDOW							
L0012381	0	0.16584E-02	440167.2	3762649.7	217.8	3.89	6.98	3.62
YES	HRDOW							
L0012382	0	0.16584E-02	440152.2	3762649.2	217.6	3.89	6.98	3.62
YES	HRDOW							
L0012383	0	0.16584E-02	440137.2	3762648.7	217.5	3.89	6.98	3.62
YES	HRDOW							
L0012384	0	0.16584E-02	440122.2	3762648.2	217.6	3.89	6.98	3.62
YES	HRDOW							
L0012385	0	0.16584E-02	440107.2	3762647.7	217.7	3.89	6.98	3.62
YES	HRDOW							
L0012386	0	0.16584E-02	440092.2	3762647.2	217.8	3.89	6.98	3.62
YES	HRDOW							
L0012387	0	0.16584E-02	440077.2	3762646.6	217.9	3.89	6.98	3.62
YES	HRDOW							
L0012388	0	0.16584E-02	440062.2	3762646.1	217.9	3.89	6.98	3.62
YES	HRDOW							
L0012389	0	0.16584E-02	440047.2	3762645.6	218.0	3.89	6.98	3.62
YES	HRDOW							
L0012390	0	0.16584E-02	440032.2	3762645.1	217.9	3.89	6.98	3.62
YES	HRDOW							
L0012391	0	0.16584E-02	440017.2	3762644.6	217.6	3.89	6.98	3.62
YES	HRDOW							
L0012392	0	0.16584E-02	440002.2	3762644.1	217.5	3.89	6.98	3.62
YES	HRDOW							
L0012393	0	0.16584E-02	439987.3	3762643.6	217.4	3.89	6.98	3.62
YES	HRDOW							
L0012394	0	0.16584E-02	439972.3	3762643.1	217.3	3.89	6.98	

3.62 YES HRDOW
L0012395 0 0.16584E-02 439957.3 3762642.6 217.3 3.89 6.98
3.62 YES HRDOW
L0012396 0 0.16584E-02 439943.7 3762640.7 217.2 3.89 6.98
3.62 YES HRDOW
L0012397 0 0.16584E-02 439943.7 3762625.7 217.0 3.89 6.98
3.62 YES HRDOW
L0012398 0 0.16584E-02 439945.1 3762612.1 216.9 3.89 6.98
3.62 YES HRDOW
L0012399 0 0.16584E-02 439960.1 3762612.6 217.0 3.89 6.98
3.62 YES HRDOW
L0012400 0 0.16584E-02 439975.1 3762613.2 216.9 3.89 6.98
3.62 YES HRDOW
L0012401 0 0.16584E-02 439990.1 3762613.7 216.9 3.89 6.98
3.62 YES HRDOW
L0012402 0 0.16584E-02 440005.1 3762614.3 217.1 3.89 6.98
3.62 YES HRDOW
L0012403 0 0.16584E-02 440020.1 3762614.8 217.4 3.89 6.98
3.62 YES HRDOW

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012404	0	0.16584E-02	440035.0	3762615.4	217.8	3.89	6.98	3.62	YES	HRDOW
L0012405	0	0.16584E-02	440050.0	3762615.9	217.8	3.89	6.98	3.62	YES	HRDOW
L0012406	0	0.16584E-02	440065.0	3762616.5	217.7	3.89	6.98	3.62	YES	HRDOW
L0012407	0	0.16584E-02	440080.0	3762617.0	217.5	3.89	6.98	3.62	YES	HRDOW
L0012408	0	0.16584E-02	440095.0	3762617.6	217.4	3.89	6.98	3.62	YES	HRDOW
L0012409	0	0.16584E-02	440110.0	3762618.2	217.2	3.89	6.98	3.62	YES	HRDOW

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 L0012410         0   0.16584E-02  440125.0 3762618.7   217.1     3.89     6.98
3.62     YES   HRDOW
 L0012411         0   0.16584E-02  440140.0 3762619.3   217.1     3.89     6.98
3.62     YES   HRDOW
 L0012412         0   0.16584E-02  440155.0 3762619.8   217.2     3.89     6.98
3.62     YES   HRDOW
 L0012413         0   0.16584E-02  440170.0 3762620.4   217.5     3.89     6.98
3.62     YES   HRDOW
 L0012414         0   0.16584E-02  440184.9 3762620.9   217.7     3.89     6.98
3.62     YES   HRDOW
 L0012415         0   0.16584E-02  440199.9 3762621.5   217.9     3.89     6.98
3.62     YES   HRDOW
 L0012416         0   0.16584E-02  440214.9 3762622.0   218.0     3.89     6.98
3.62     YES   HRDOW
 L0012417         0   0.16584E-02  440229.9 3762622.6   217.9     3.89     6.98
3.62     YES   HRDOW
 L0012418         0   0.16584E-02  440244.9 3762623.1   217.9     3.89     6.98
3.62     YES   HRDOW
 L0012419         0   0.16584E-02  440259.9 3762623.7   217.7     3.89     6.98
3.62     YES   HRDOW
 L0012420         0   0.16584E-02  440274.9 3762624.2   217.5     3.89     6.98
3.62     YES   HRDOW
 L0012421         0   0.16584E-02  440289.9 3762624.8   217.3     3.89     6.98
3.62     YES   HRDOW
 L0012422         0   0.16584E-02  440304.9 3762625.4   217.3     3.89     6.98
3.62     YES   HRDOW
 L0012423         0   0.16584E-02  440319.8 3762625.9   217.5     3.89     6.98
3.62     YES   HRDOW
 L0012424         0   0.16584E-02  440334.8 3762626.5   217.8     3.89     6.98
3.62     YES   HRDOW
 L0012425         0   0.16584E-02  440349.8 3762627.0   218.1     3.89     6.98
3.62     YES   HRDOW
 L0012426         0   0.16584E-02  440351.0 3762613.5   218.0     3.89     6.98
3.62     YES   HRDOW
 L0012427         0   0.16584E-02  440350.7 3762598.5   217.7     3.89     6.98
3.62     YES   HRDOW
 L0012428         0   0.16584E-02  440339.0 3762594.9   217.4     3.89     6.98
3.62     YES   HRDOW
 L0012429         0   0.16584E-02  440324.0 3762594.5   217.0     3.89     6.98
3.62     YES   HRDOW
 L0012430         0   0.16584E-02  440309.0 3762594.1   216.8     3.89     6.98
3.62     YES   HRDOW
 L0012431         0   0.16584E-02  440294.0 3762593.7   216.6     3.89     6.98
3.62     YES   HRDOW
 L0012432         0   0.16584E-02  440279.0 3762593.3   216.8     3.89     6.98
3.62     YES   HRDOW
 L0012433         0   0.16584E-02  440264.0 3762592.9   216.9     3.89     6.98
3.62     YES   HRDOW
 L0012434         0   0.16584E-02  440249.0 3762592.5   217.2     3.89     6.98
3.62     YES   HRDOW
 L0012435         0   0.16584E-02  440234.1 3762592.1   217.4     3.89     6.98
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3.62 YES HRDOW
L0012436 0 0.16584E-02 440219.1 3762591.7 217.5 3.89 6.98
3.62 YES HRDOW
L0012437 0 0.16584E-02 440204.1 3762591.3 217.5 3.89 6.98
3.62 YES HRDOW
L0012438 0 0.16584E-02 440189.1 3762590.9 217.4 3.89 6.98
3.62 YES HRDOW
L0012439 0 0.16584E-02 440174.1 3762590.5 217.2 3.89 6.98
3.62 YES HRDOW
L0012440 0 0.16584E-02 440159.1 3762590.1 217.0 3.89 6.98
3.62 YES HRDOW
L0012441 0 0.16584E-02 440144.1 3762589.7 216.7 3.89 6.98
3.62 YES HRDOW
L0012442 0 0.16584E-02 440129.1 3762589.3 216.7 3.89 6.98
3.62 YES HRDOW
L0012443 0 0.16584E-02 440114.1 3762588.9 216.7 3.89 6.98
3.62 YES HRDOW

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0012444	0	0.16584E-02	440099.1	3762588.5	216.9	3.89	6.98	3.62	YES HRDOW
L0012445	0	0.16584E-02	440084.1	3762588.1	217.1	3.89	6.98	3.62	YES HRDOW
L0012446	0	0.16584E-02	440069.1	3762587.7	217.3	3.89	6.98	3.62	YES HRDOW
L0012447	0	0.16584E-02	440054.1	3762587.3	217.3	3.89	6.98	3.62	YES HRDOW
L0012448	0	0.16584E-02	440039.1	3762586.9	217.4	3.89	6.98	3.62	YES HRDOW
L0012449	0	0.16584E-02	440024.1	3762586.5	217.1	3.89	6.98	3.62	YES HRDOW
L0012450	0	0.16584E-02	440009.1	3762586.1	216.8	3.89	6.98	3.62	YES HRDOW

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 L0012451         0   0.16584E-02  439994.1 3762585.7   216.6     3.89     6.98
3.62     YES   HRDOW
 L0012452         0   0.16584E-02  439979.1 3762585.3   216.5     3.89     6.98
3.62     YES   HRDOW
 L0012453         0   0.16584E-02  439964.2 3762584.9   216.5     3.89     6.98
3.62     YES   HRDOW
 L0012454         0   0.16584E-02  439949.2 3762584.5   216.5     3.89     6.98
3.62     YES   HRDOW
 L0012455         0   0.16584E-02  439942.0 3762576.0   216.3     3.89     6.98
3.62     YES   HRDOW
 L0012456         0   0.16584E-02  439941.1 3762561.0   216.0     3.89     6.98
3.62     YES   HRDOW
 L0012457         0   0.16584E-02  439940.1 3762546.0   215.7     3.89     6.98
3.62     YES   HRDOW
 L0012458         0   0.16584E-02  439954.9 3762546.3   215.8     3.89     6.98
3.62     YES   HRDOW
 L0012459         0   0.16584E-02  439969.9 3762546.8   215.9     3.89     6.98
3.62     YES   HRDOW
 L0012460         0   0.16584E-02  439984.9 3762547.4   216.0     3.89     6.98
3.62     YES   HRDOW
 L0012461         0   0.16584E-02  439999.9 3762547.9   216.1     3.89     6.98
3.62     YES   HRDOW
 L0012462         0   0.16584E-02  440014.9 3762548.4   216.4     3.89     6.98
3.62     YES   HRDOW
 L0012463         0   0.16584E-02  440029.9 3762548.9   216.8     3.89     6.98
3.62     YES   HRDOW
 L0012464         0   0.16584E-02  440044.8 3762549.5   217.0     3.89     6.98
3.62     YES   HRDOW
 L0012465         0   0.16584E-02  440059.8 3762550.0   216.9     3.89     6.98
3.62     YES   HRDOW
 L0012466         0   0.16584E-02  440074.8 3762550.5   216.8     3.89     6.98
3.62     YES   HRDOW
 L0012467         0   0.16584E-02  440089.8 3762551.0   216.6     3.89     6.98
3.62     YES   HRDOW
 L0012468         0   0.16584E-02  440104.8 3762551.6   216.4     3.89     6.98
3.62     YES   HRDOW
 L0012469         0   0.16584E-02  440119.8 3762552.1   216.2     3.89     6.98
3.62     YES   HRDOW
 L0012470         0   0.16584E-02  440134.8 3762552.6   216.2     3.89     6.98
3.62     YES   HRDOW
 L0012471         0   0.16584E-02  440149.8 3762553.1   216.6     3.89     6.98
3.62     YES   HRDOW
 L0012472         0   0.16584E-02  440164.8 3762553.6   217.4     3.89     6.98
3.62     YES   HRDOW
 L0012473         0   0.16584E-02  440179.8 3762554.2   217.0     3.89     6.98
3.62     YES   HRDOW
 L0012474         0   0.16584E-02  440194.8 3762554.7   216.5     3.89     6.98
3.62     YES   HRDOW
 L0012475         0   0.16584E-02  440209.7 3762555.2   216.3     3.89     6.98
3.62     YES   HRDOW
 L0012476         0   0.16584E-02  440224.7 3762555.7   216.1     3.89     6.98
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3.62 YES HRDOW
L0012477 0 0.16584E-02 440239.7 3762556.3 215.8 3.89 6.98
3.62 YES HRDOW
L0012478 0 0.16584E-02 440254.7 3762556.8 215.5 3.89 6.98
3.62 YES HRDOW
L0012479 0 0.16584E-02 440269.7 3762557.3 215.2 3.89 6.98
3.62 YES HRDOW
L0012480 0 0.16584E-02 440284.7 3762557.8 215.2 3.89 6.98
3.62 YES HRDOW
L0012481 0 0.16584E-02 440299.7 3762558.4 215.2 3.89 6.98
3.62 YES HRDOW
L0012482 0 0.16584E-02 440314.7 3762558.9 215.2 3.89 6.98
3.62 YES HRDOW
L0012483 0 0.16584E-02 440329.7 3762559.4 215.6 3.89 6.98
3.62 YES HRDOW

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0012484	0	0.16584E-02	440344.7	3762559.9	216.2	3.89	6.98	3.62	YES	HRDOW
L0012485	0	0.16584E-02	440353.7	3762554.3	216.5	3.89	6.98	3.62	YES	HRDOW
L0012486	0	0.16584E-02	440353.7	3762539.3	216.2	3.89	6.98	3.62	YES	HRDOW
L0012487	0	0.16584E-02	440343.6	3762534.0	215.7	3.89	6.98	3.62	YES	HRDOW
L0012488	0	0.16584E-02	440328.6	3762533.4	214.8	3.89	6.98	3.62	YES	HRDOW
L0012489	0	0.16584E-02	440313.6	3762532.8	214.4	3.89	6.98	3.62	YES	HRDOW
L0012490	0	0.16584E-02	440298.6	3762532.3	214.5	3.89	6.98	3.62	YES	HRDOW
L0012491	0	0.16584E-02	440283.6	3762531.7	214.5	3.89	6.98	3.62	YES	HRDOW

L0012492	0	0.16584E-02	440268.6	3762531.1	214.4	3.89	6.98	3.62
YES	HRDOW							
L0012493	0	0.16584E-02	440253.6	3762530.6	214.6	3.89	6.98	3.62
YES	HRDOW							
L0012494	0	0.16584E-02	440238.7	3762530.0	214.9	3.89	6.98	3.62
YES	HRDOW							
L0012495	0	0.16584E-02	440223.7	3762529.4	215.4	3.89	6.98	3.62
YES	HRDOW							
L0012496	0	0.16584E-02	440208.7	3762528.9	215.7	3.89	6.98	3.62
YES	HRDOW							
L0012497	0	0.16584E-02	440193.7	3762528.3	216.0	3.89	6.98	3.62
YES	HRDOW							
L0012498	0	0.16584E-02	440178.7	3762527.7	216.7	3.89	6.98	3.62
YES	HRDOW							
L0012499	0	0.16584E-02	440163.7	3762527.2	217.1	3.89	6.98	3.62
YES	HRDOW							
L0012500	0	0.16584E-02	440148.7	3762526.6	216.3	3.89	6.98	3.62
YES	HRDOW							
L0012501	0	0.16584E-02	440133.7	3762526.0	215.9	3.89	6.98	3.62
YES	HRDOW							
L0012502	0	0.16584E-02	440118.7	3762525.4	215.8	3.89	6.98	3.62
YES	HRDOW							
L0012503	0	0.16584E-02	440103.8	3762524.9	216.0	3.89	6.98	3.62
YES	HRDOW							
L0012504	0	0.16584E-02	440088.8	3762524.3	216.2	3.89	6.98	3.62
YES	HRDOW							
L0012505	0	0.16584E-02	440073.8	3762523.7	216.4	3.89	6.98	3.62
YES	HRDOW							
L0012506	0	0.16584E-02	440058.8	3762523.2	216.6	3.89	6.98	3.62
YES	HRDOW							
L0012507	0	0.16584E-02	440043.8	3762522.6	216.8	3.89	6.98	3.62
YES	HRDOW							
L0012508	0	0.16584E-02	440028.8	3762522.0	216.6	3.89	6.98	3.62
YES	HRDOW							
L0012509	0	0.16584E-02	440013.8	3762521.5	216.2	3.89	6.98	3.62
YES	HRDOW							
L0012510	0	0.16584E-02	439998.8	3762520.9	215.8	3.89	6.98	3.62
YES	HRDOW							
L0012511	0	0.16584E-02	439983.8	3762520.3	215.5	3.89	6.98	3.62
YES	HRDOW							
L0012512	0	0.16584E-02	439968.9	3762519.8	215.4	3.89	6.98	3.62
YES	HRDOW							
L0012513	0	0.16584E-02	439953.9	3762519.2	215.4	3.89	6.98	3.62
YES	HRDOW							
L0012514	0	0.16584E-02	439941.2	3762516.3	215.3	3.89	6.98	3.62
YES	HRDOW							
L0012515	0	0.16584E-02	439940.7	3762501.3	215.1	3.89	6.98	3.62
YES	HRDOW							
L0012516	0	0.16584E-02	439940.2	3762486.3	215.0	3.89	6.98	3.62
YES	HRDOW							
L0012517	0	0.16584E-02	439953.8	3762485.8	214.9	3.89	6.98	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012524	0	0.16584E-02	440058.7	3762491.5	216.1	3.89	6.98	3.62	YES	HRDOW
L0012525	0	0.16584E-02	440073.7	3762492.4	216.0	3.89	6.98	3.62	YES	HRDOW
L0012526	0	0.16584E-02	440088.6	3762493.2	215.8	3.89	6.98	3.62	YES	HRDOW
L0012527	0	0.16584E-02	440103.6	3762494.0	215.7	3.89	6.98	3.62	YES	HRDOW
L0012528	0	0.16584E-02	440118.6	3762494.8	215.5	3.89	6.98	3.62	YES	HRDOW
L0012529	0	0.16584E-02	440133.6	3762495.7	215.6	3.89	6.98	3.62	YES	HRDOW
L0012530	0	0.16584E-02	440148.5	3762496.5	216.0	3.89	6.98	3.62	YES	HRDOW
L0012531	0	0.16584E-02	440163.5	3762497.3	216.7	3.89	6.98	3.62	YES	HRDOW
L0012532	0	0.16584E-02	440178.5	3762498.1	216.5	3.89	6.98	3.62	YES	HRDOW

L0012533	0	0.16584E-02	440193.5	3762499.0	216.0	3.89	6.98	3.62
YES	HRDOW							
L0012534	0	0.16584E-02	440208.5	3762499.8	215.8	3.89	6.98	3.62
YES	HRDOW							
L0012535	0	0.16584E-02	440223.4	3762500.6	215.6	3.89	6.98	3.62
YES	HRDOW							
L0012536	0	0.16584E-02	440238.4	3762501.4	215.5	3.89	6.98	3.62
YES	HRDOW							
L0012537	0	0.16584E-02	440253.4	3762502.3	215.5	3.89	6.98	3.62
YES	HRDOW							
L0012538	0	0.16584E-02	440268.4	3762503.1	215.6	3.89	6.98	3.62
YES	HRDOW							
L0012539	0	0.16584E-02	440283.3	3762503.9	215.7	3.89	6.98	3.62
YES	HRDOW							
L0012540	0	0.16584E-02	440298.3	3762504.7	215.7	3.89	6.98	3.62
YES	HRDOW							
L0012541	0	0.16584E-02	440313.3	3762505.6	215.7	3.89	6.98	3.62
YES	HRDOW							
L0012542	0	0.16584E-02	440328.3	3762506.4	215.9	3.89	6.98	3.62
YES	HRDOW							
L0012543	0	0.16584E-02	440343.2	3762507.2	216.6	3.89	6.98	3.62
YES	HRDOW							
L0012544	0	0.16584E-02	440355.7	3762505.1	217.3	3.89	6.98	3.62
YES	HRDOW							
L0012545	0	0.16584E-02	440356.6	3762490.2	218.1	3.89	6.98	3.62
YES	HRDOW							
L0012546	0	0.16584E-02	440352.9	3762479.4	218.2	3.89	6.98	3.62
YES	HRDOW							
L0012547	0	0.16584E-02	440337.9	3762478.6	218.3	3.89	6.98	3.62
YES	HRDOW							
L0012548	0	0.16584E-02	440322.9	3762477.9	218.1	3.89	6.98	3.62
YES	HRDOW							
L0012549	0	0.16584E-02	440308.0	3762477.1	218.0	3.89	6.98	3.62
YES	HRDOW							
L0012550	0	0.16584E-02	440293.0	3762476.3	217.8	3.89	6.98	3.62
YES	HRDOW							
L0012551	0	0.16584E-02	440278.0	3762475.6	217.5	3.89	6.98	3.62
YES	HRDOW							
L0012552	0	0.16584E-02	440263.0	3762474.8	217.1	3.89	6.98	3.62
YES	HRDOW							
L0012553	0	0.16584E-02	440248.0	3762474.1	216.6	3.89	6.98	3.62
YES	HRDOW							
L0012554	0	0.16584E-02	440233.0	3762473.3	216.2	3.89	6.98	3.62
YES	HRDOW							
L0012555	0	0.16584E-02	440218.1	3762472.6	215.9	3.89	6.98	3.62
YES	HRDOW							
L0012556	0	0.16584E-02	440203.1	3762471.8	216.0	3.89	6.98	3.62
YES	HRDOW							
L0012557	0	0.16584E-02	440188.1	3762471.1	216.2	3.89	6.98	3.62
YES	HRDOW							
L0012558	0	0.16584E-02	440173.1	3762470.3	216.5	3.89	6.98	

3.62 YES HRDOW
L0012559 0 0.16584E-02 440158.1 3762469.6 216.2 3.89 6.98
3.62 YES HRDOW
L0012560 0 0.16584E-02 440143.2 3762468.8 215.6 3.89 6.98
3.62 YES HRDOW
L0012561 0 0.16584E-02 440128.2 3762468.0 215.4 3.89 6.98
3.62 YES HRDOW
L0012562 0 0.16584E-02 440113.2 3762467.3 215.3 3.89 6.98
3.62 YES HRDOW
L0012563 0 0.16584E-02 440098.2 3762466.5 215.4 3.89 6.98
3.62 YES HRDOW

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012564	0	0.16584E-02	440083.2	3762465.8	215.5	3.89	6.98	3.62	YES	HRDOW
L0012565	0	0.16584E-02	440068.3	3762465.0	215.7	3.89	6.98	3.62	YES	HRDOW
L0012566	0	0.16584E-02	440053.3	3762464.3	215.7	3.89	6.98	3.62	YES	HRDOW
L0012567	0	0.16584E-02	440038.3	3762463.5	215.7	3.89	6.98	3.62	YES	HRDOW
L0012568	0	0.16584E-02	440023.3	3762462.8	215.4	3.89	6.98	3.62	YES	HRDOW
L0012569	0	0.16584E-02	440008.3	3762462.0	215.1	3.89	6.98	3.62	YES	HRDOW
L0012570	0	0.16584E-02	439993.3	3762461.3	214.9	3.89	6.98	3.62	YES	HRDOW
L0012571	0	0.16584E-02	439978.4	3762460.5	214.7	3.89	6.98	3.62	YES	HRDOW
L0012572	0	0.16584E-02	439963.4	3762459.8	214.5	3.89	6.98	3.62	YES	HRDOW
L0012573	0	0.16584E-02	439948.4	3762459.0	214.6	3.89	6.98	3.62	YES	HRDOW

L0012574	0	0.16584E-02	439939.1	3762453.0	214.5	3.89	6.98	
3.62	YES	HRDOW						
L0012575	0	0.16584E-02	439939.7	3762438.0	214.2	3.89	6.98	
3.62	YES	HRDOW						
L0012576	0	0.16584E-02	439944.3	3762427.4	214.0	3.89	6.98	
3.62	YES	HRDOW						
L0012577	0	0.16584E-02	439959.3	3762428.1	213.9	3.89	6.98	
3.62	YES	HRDOW						
L0012578	0	0.16584E-02	439974.3	3762428.9	214.2	3.89	6.98	
3.62	YES	HRDOW						
L0012579	0	0.16584E-02	439989.3	3762429.6	214.5	3.89	6.98	
3.62	YES	HRDOW						
L0012580	0	0.16584E-02	440004.2	3762430.3	214.9	3.89	6.98	
3.62	YES	HRDOW						
L0012581	0	0.16584E-02	440019.2	3762431.1	215.2	3.89	6.98	
3.62	YES	HRDOW						
L0012582	0	0.16584E-02	440034.2	3762431.8	215.4	3.89	6.98	
3.62	YES	HRDOW						
L0012583	0	0.16584E-02	440049.2	3762432.5	215.4	3.89	6.98	
3.62	YES	HRDOW						
L0012584	0	0.16584E-02	440064.2	3762433.2	215.3	3.89	6.98	
3.62	YES	HRDOW						
L0012585	0	0.16584E-02	440079.1	3762434.0	215.2	3.89	6.98	
3.62	YES	HRDOW						
L0012586	0	0.16584E-02	440094.1	3762434.7	215.1	3.89	6.98	
3.62	YES	HRDOW						
L0012587	0	0.16584E-02	440109.1	3762435.4	215.1	3.89	6.98	
3.62	YES	HRDOW						
L0012588	0	0.16584E-02	440124.1	3762436.1	215.1	3.89	6.98	
3.62	YES	HRDOW						
L0012589	0	0.16584E-02	440139.1	3762436.9	215.2	3.89	6.98	
3.62	YES	HRDOW						
L0012590	0	0.16584E-02	440154.1	3762437.6	215.7	3.89	6.98	
3.62	YES	HRDOW						
L0012591	0	0.16584E-02	440163.4	3762432.5	216.0	3.89	6.98	
3.62	YES	HRDOW						
L0012592	0	0.16584E-02	440163.1	3762417.5	215.7	3.89	6.98	
3.62	YES	HRDOW						
L0012593	0	0.16584E-02	440161.6	3762403.7	215.4	3.89	6.98	
3.62	YES	HRDOW						
L0012594	0	0.16584E-02	440146.6	3762403.1	214.8	3.89	6.98	
3.62	YES	HRDOW						
L0012595	0	0.16584E-02	440131.6	3762402.5	214.7	3.89	6.98	
3.62	YES	HRDOW						
L0012596	0	0.16584E-02	440116.6	3762401.9	214.8	3.89	6.98	
3.62	YES	HRDOW						
L0012597	0	0.16584E-02	440101.6	3762401.3	214.8	3.89	6.98	
3.62	YES	HRDOW						
L0012598	0	0.16584E-02	440086.6	3762400.8	214.8	3.89	6.98	
3.62	YES	HRDOW						
L0012599	0	0.16584E-02	440071.6	3762400.2	214.8	3.89	6.98	

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012604	0	0.16584E-02	439996.7	3762397.2	214.4	3.89	6.98	3.62	YES	HRDOW
L0012605	0	0.16584E-02	439981.7	3762396.7	213.8	3.89	6.98	3.62	YES	HRDOW
L0012606	0	0.16584E-02	439966.7	3762396.1	213.3	3.89	6.98	3.62	YES	HRDOW
L0012607	0	0.16584E-02	439951.7	3762395.5	213.3	3.89	6.98	3.62	YES	HRDOW
L0012608	0	0.16584E-02	439946.9	3762384.7	213.3	3.89	6.98	3.62	YES	HRDOW
L0012609	0	0.16584E-02	439946.2	3762369.7	213.3	3.89	6.98	3.62	YES	HRDOW
L0012610	0	0.16584E-02	439959.0	3762368.0	213.1	3.89	6.98	3.62	YES	HRDOW
L0012611	0	0.16584E-02	439974.0	3762368.5	213.4	3.89	6.98	3.62	YES	HRDOW
L0012612	0	0.16584E-02	439989.0	3762369.0	213.7	3.89	6.98	3.62	YES	HRDOW
L0012613	0	0.16584E-02	440004.0	3762369.5	214.2	3.89	6.98	3.62	YES	HRDOW
L0012614	0	0.16584E-02	440019.0	3762370.0	214.4	3.89	6.98	3.62	YES	HRDOW

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 L0012615         0   0.16584E-02  440034.0 3762370.5   214.4     3.89     6.98
3.62     YES   HRDOW
 L0012616         0   0.16584E-02  440049.0 3762371.0   214.4     3.89     6.98
3.62     YES   HRDOW
 L0012617         0   0.16584E-02  440064.0 3762371.5   214.3     3.89     6.98
3.62     YES   HRDOW
 L0012618         0   0.16584E-02  440079.0 3762372.0   214.3     3.89     6.98
3.62     YES   HRDOW
 L0012619         0   0.16584E-02  440094.0 3762372.5   214.3     3.89     6.98
3.62     YES   HRDOW
 L0012620         0   0.16584E-02  440109.0 3762372.9   214.2     3.89     6.98
3.62     YES   HRDOW
 L0012621         0   0.16584E-02  440124.0 3762373.4   214.2     3.89     6.98
3.62     YES   HRDOW
 L0012622         0   0.16584E-02  440138.9 3762373.9   214.1     3.89     6.98
3.62     YES   HRDOW
 L0012623         0   0.16584E-02  440153.9 3762374.4   214.5     3.89     6.98
3.62     YES   HRDOW
 L0012624         0   0.16584E-02  440167.0 3762373.0   214.9     3.89     6.98
3.62     YES   HRDOW
 L0012625         0   0.16584E-02  440166.6 3762358.0   214.7     3.89     6.98
3.62     YES   HRDOW
 L0012626         0   0.16584E-02  440155.1 3762353.9   214.2     3.89     6.98
3.62     YES   HRDOW
 L0012627         0   0.16584E-02  440140.1 3762353.2   213.7     3.89     6.98
3.62     YES   HRDOW
 L0012628         0   0.16584E-02  440125.1 3762352.6   213.8     3.89     6.98
3.62     YES   HRDOW
 L0012629         0   0.16584E-02  440110.1 3762351.9   213.9     3.89     6.98
3.62     YES   HRDOW
 L0012630         0   0.16584E-02  440095.1 3762351.3   213.9     3.89     6.98
3.62     YES   HRDOW
 L0012631         0   0.16584E-02  440080.2 3762350.7   214.0     3.89     6.98
3.62     YES   HRDOW
 L0012632         0   0.16584E-02  440065.2 3762350.0   214.0     3.89     6.98
3.62     YES   HRDOW
 L0012633         0   0.16584E-02  440050.2 3762349.4   214.0     3.89     6.98
3.62     YES   HRDOW
 L0012634         0   0.16584E-02  440035.2 3762348.7   214.0     3.89     6.98
3.62     YES   HRDOW
 L0012635         0   0.16584E-02  440020.2 3762348.1   214.0     3.89     6.98
3.62     YES   HRDOW
 L0012636         0   0.16584E-02  440005.2 3762347.4   213.9     3.89     6.98
3.62     YES   HRDOW
 L0012637         0   0.16584E-02  439990.2 3762346.8   213.6     3.89     6.98
3.62     YES   HRDOW
 L0012638         0   0.16584E-02  439975.3 3762346.1   213.3     3.89     6.98
3.62     YES   HRDOW
 L0012639         0   0.16584E-02  439960.3 3762345.5   213.1     3.89     6.98
3.62     YES   HRDOW
 L0012640         0   0.16584E-02  439945.3 3762344.8   213.2     3.89     6.98
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3.62 YES HRDOW
L0012641 0 0.16584E-02 439942.6 3762331.9 213.2 3.89 6.98
3.62 YES HRDOW
L0012642 0 0.16584E-02 439943.3 3762318.3 213.1 3.89 6.98
3.62 YES HRDOW
L0012643 0 0.16584E-02 439958.3 3762318.3 213.0 3.89 6.98
3.62 YES HRDOW

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012644	0	0.16584E-02	439973.3	3762318.3	213.2	3.89	6.98	3.62	YES	HRDOW
L0012645	0	0.16584E-02	439988.3	3762318.3	213.3	3.89	6.98	3.62	YES	HRDOW
L0012646	0	0.16584E-02	440003.3	3762318.3	213.5	3.89	6.98	3.62	YES	HRDOW
L0012647	0	0.16584E-02	440018.3	3762318.3	213.5	3.89	6.98	3.62	YES	HRDOW
L0012648	0	0.16584E-02	440033.3	3762318.3	213.5	3.89	6.98	3.62	YES	HRDOW
L0012649	0	0.16584E-02	440048.3	3762318.3	213.6	3.89	6.98	3.62	YES	HRDOW
L0012650	0	0.16584E-02	440063.3	3762318.3	213.6	3.89	6.98	3.62	YES	HRDOW
L0012651	0	0.16584E-02	440078.3	3762318.3	213.6	3.89	6.98	3.62	YES	HRDOW
L0012652	0	0.16584E-02	440093.3	3762318.3	213.6	3.89	6.98	3.62	YES	HRDOW
L0012653	0	0.16584E-02	440108.3	3762318.3	213.5	3.89	6.98	3.62	YES	HRDOW
L0012654	0	0.16584E-02	440123.3	3762318.3	213.4	3.89	6.98	3.62	YES	HRDOW
L0012655	0	0.16584E-02	440138.3	3762318.3	213.4	3.89	6.98	3.62	YES	HRDOW

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 L0012656         0   0.16584E-02  440153.3 3762318.3   213.7     3.89     6.98
3.62     YES   HRDOW
 L0012657         0   0.16584E-02  440168.3 3762318.3   214.1     3.89     6.98
3.62     YES   HRDOW
 L0012658         0   0.16584E-02  440183.3 3762318.3   214.2     3.89     6.98
3.62     YES   HRDOW
 L0012659         0   0.16584E-02  440198.3 3762318.3   214.1     3.89     6.98
3.62     YES   HRDOW
 L0012660         0   0.16584E-02  440213.3 3762318.3   213.9     3.89     6.98
3.62     YES   HRDOW
 L0012661         0   0.16584E-02  440228.3 3762318.3   213.6     3.89     6.98
3.62     YES   HRDOW
 L0012662         0   0.16584E-02  440243.3 3762318.3   213.5     3.89     6.98
3.62     YES   HRDOW
 L0012663         0   0.16584E-02  440258.3 3762318.3   213.9     3.89     6.98
3.62     YES   HRDOW
 L0012664         0   0.16584E-02  440273.3 3762318.3   214.3     3.89     6.98
3.62     YES   HRDOW
 L0012665         0   0.16584E-02  440288.3 3762318.3   214.6     3.89     6.98
3.62     YES   HRDOW
 L0012666         0   0.16584E-02  440303.3 3762318.3   214.7     3.89     6.98
3.62     YES   HRDOW
 L0012667         0   0.16584E-02  440318.3 3762318.3   214.7     3.89     6.98
3.62     YES   HRDOW
 L0012668         0   0.16584E-02  440333.3 3762318.3   214.7     3.89     6.98
3.62     YES   HRDOW
 L0012669         0   0.16584E-02  440348.3 3762318.3   214.6     3.89     6.98
3.62     YES   HRDOW
 L0012670         0   0.16584E-02  440354.9 3762309.9   214.4     3.89     6.98
3.62     YES   HRDOW
 L0012671         0   0.16584E-02  440354.9 3762294.9   214.1     3.89     6.98
3.62     YES   HRDOW
 L0012672         0   0.16584E-02  440341.8 3762292.9   214.2     3.89     6.98
3.62     YES   HRDOW
 L0012673         0   0.16584E-02  440326.8 3762292.9   214.3     3.89     6.98
3.62     YES   HRDOW
 L0012674         0   0.16584E-02  440311.8 3762292.9   214.4     3.89     6.98
3.62     YES   HRDOW
 L0012675         0   0.16584E-02  440296.8 3762292.8   214.4     3.89     6.98
3.62     YES   HRDOW
 L0012676         0   0.16584E-02  440281.8 3762292.8   214.1     3.89     6.98
3.62     YES   HRDOW
 L0012677         0   0.16584E-02  440266.8 3762292.7   213.8     3.89     6.98
3.62     YES   HRDOW
 L0012678         0   0.16584E-02  440251.8 3762292.7   213.4     3.89     6.98
3.62     YES   HRDOW
 L0012679         0   0.16584E-02  440236.8 3762292.6   213.2     3.89     6.98
3.62     YES   HRDOW
 L0012680         0   0.16584E-02  440221.8 3762292.6   213.4     3.89     6.98
3.62     YES   HRDOW
 L0012681         0   0.16584E-02  440206.8 3762292.5   213.6     3.89     6.98
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE VARY BY
L0012684	0	0.16584E-02	440161.8	3762292.4	213.6	3.89	6.98	3.62	YES	HRDOW
L0012685	0	0.16584E-02	440146.8	3762292.4	213.3	3.89	6.98	3.62	YES	HRDOW
L0012686	0	0.16584E-02	440131.8	3762292.3	213.2	3.89	6.98	3.62	YES	HRDOW
L0012687	0	0.16584E-02	440116.8	3762292.3	213.3	3.89	6.98	3.62	YES	HRDOW
L0012688	0	0.16584E-02	440101.8	3762292.2	213.3	3.89	6.98	3.62	YES	HRDOW
L0012689	0	0.16584E-02	440086.8	3762292.2	213.4	3.89	6.98	3.62	YES	HRDOW
L0012690	0	0.16584E-02	440071.8	3762292.1	213.3	3.89	6.98	3.62	YES	HRDOW
L0012691	0	0.16584E-02	440056.8	3762292.1	213.3	3.89	6.98	3.62	YES	HRDOW
L0012692	0	0.16584E-02	440041.8	3762292.1	213.3	3.89	6.98	3.62	YES	HRDOW
L0012693	0	0.16584E-02	440026.8	3762292.0	213.2	3.89	6.98	3.62	YES	HRDOW
L0012694	0	0.16584E-02	440011.8	3762292.0	213.2	3.89	6.98	3.62	YES	HRDOW
L0012695	0	0.16584E-02	439996.8	3762291.9	213.1	3.89	6.98	3.62	YES	HRDOW
L0012696	0	0.16584E-02	439981.8	3762291.9	213.0	3.89	6.98	3.62	YES	HRDOW

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 L0012697         0   0.16584E-02  439966.8 3762291.8   212.9     3.89     6.98
3.62     YES   HRDOW
 L0012698         0   0.16584E-02  439951.8 3762291.8   212.8     3.89     6.98
3.62     YES   HRDOW
 L0012699         0   0.16584E-02  439944.3 3762284.2   212.7     3.89     6.98
3.62     YES   HRDOW
 L0012700         0   0.16584E-02  439944.3 3762269.2   212.6     3.89     6.98
3.62     YES   HRDOW
 L0012701         0   0.16584E-02  439953.6 3762263.7   212.4     3.89     6.98
3.62     YES   HRDOW
 L0012702         0   0.16584E-02  439968.6 3762264.0   212.5     3.89     6.98
3.62     YES   HRDOW
 L0012703         0   0.16584E-02  439983.6 3762264.3   212.6     3.89     6.98
3.62     YES   HRDOW
 L0012704         0   0.16584E-02  439998.6 3762264.6   212.7     3.89     6.98
3.62     YES   HRDOW
 L0012705         0   0.16584E-02  440013.6 3762265.0   212.8     3.89     6.98
3.62     YES   HRDOW
 L0012706         0   0.16584E-02  440028.6 3762265.3   212.9     3.89     6.98
3.62     YES   HRDOW
 L0012707         0   0.16584E-02  440043.6 3762265.6   213.0     3.89     6.98
3.62     YES   HRDOW
 L0012708         0   0.16584E-02  440058.6 3762265.9   213.1     3.89     6.98
3.62     YES   HRDOW
 L0012709         0   0.16584E-02  440073.6 3762266.2   213.1     3.89     6.98
3.62     YES   HRDOW
 L0012710         0   0.16584E-02  440088.6 3762266.6   213.1     3.89     6.98
3.62     YES   HRDOW
 L0012711         0   0.16584E-02  440103.6 3762266.9   213.1     3.89     6.98
3.62     YES   HRDOW
 L0012712         0   0.16584E-02  440118.6 3762267.2   213.2     3.89     6.98
3.62     YES   HRDOW
 L0012713         0   0.16584E-02  440133.6 3762267.5   213.1     3.89     6.98
3.62     YES   HRDOW
 L0012714         0   0.16584E-02  440148.6 3762267.9   213.2     3.89     6.98
3.62     YES   HRDOW
 L0012715         0   0.16584E-02  440163.6 3762268.2   213.4     3.89     6.98
3.62     YES   HRDOW
 L0012716         0   0.16584E-02  440169.9 3762259.2   213.4     3.89     6.98
3.62     YES   HRDOW
 L0012717         0   0.16584E-02  440170.5 3762244.2   213.3     3.89     6.98
3.62     YES   HRDOW
 L0012718         0   0.16584E-02  440158.7 3762241.1   213.2     3.89     6.98
3.62     YES   HRDOW
 L0012719         0   0.16584E-02  440143.7 3762240.9   213.1     3.89     6.98
3.62     YES   HRDOW
 L0012720         0   0.16584E-02  440128.7 3762240.7   213.0     3.89     6.98
3.62     YES   HRDOW
 L0012721         0   0.16584E-02  440113.7 3762240.5   213.0     3.89     6.98
3.62     YES   HRDOW
 L0012722         0   0.16584E-02  440098.7 3762240.3   213.0     3.89     6.98
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	URBAN SOURCE SZ	EMISSION RATE SCALAR VARY BY
L0012724	0	0.16584E-02	440068.7	3762239.9	212.9	3.89	6.98	3.62	YES HRDOW
L0012725	0	0.16584E-02	440053.7	3762239.7	212.9	3.89	6.98	3.62	YES HRDOW
L0012726	0	0.16584E-02	440038.7	3762239.5	212.9	3.89	6.98	3.62	YES HRDOW
L0012727	0	0.16584E-02	440023.7	3762239.3	212.8	3.89	6.98	3.62	YES HRDOW
L0012728	0	0.16584E-02	440008.7	3762239.1	212.7	3.89	6.98	3.62	YES HRDOW
L0012729	0	0.16584E-02	439993.7	3762238.9	212.5	3.89	6.98	3.62	YES HRDOW
L0012730	0	0.16584E-02	439978.7	3762238.7	212.2	3.89	6.98	3.62	YES HRDOW
L0012731	0	0.16584E-02	439963.7	3762238.5	211.9	3.89	6.98	3.62	YES HRDOW
L0012732	0	0.16584E-02	439948.7	3762238.3	211.9	3.89	6.98	3.62	YES HRDOW
L0012733	0	0.16584E-02	439944.1	3762227.0	211.7	3.89	6.98	3.62	YES HRDOW
L0012734	0	0.16584E-02	439943.0	3762212.0	211.4	3.89	6.98	3.62	YES HRDOW
L0012735	0	0.16584E-02	439951.2	3762205.9	211.1	3.89	6.98	3.62	YES HRDOW
L0012736	0	0.16584E-02	439966.2	3762206.4	210.9	3.89	6.98	3.62	YES HRDOW
L0012737	0	0.16584E-02	439981.2	3762206.8	211.2	3.89	6.98	3.62	YES HRDOW

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 L0012738         0   0.16584E-02  439996.1 3762207.3   211.8     3.89     6.98
3.62     YES   HRDOW
 L0012739         0   0.16584E-02  440011.1 3762207.7   212.6     3.89     6.98
3.62     YES   HRDOW
 L0012740         0   0.16584E-02  440026.1 3762208.2   212.7     3.89     6.98
3.62     YES   HRDOW
 L0012741         0   0.16584E-02  440041.1 3762208.6   212.9     3.89     6.98
3.62     YES   HRDOW
 L0012742         0   0.16584E-02  440056.1 3762209.0   212.8     3.89     6.98
3.62     YES   HRDOW
 L0012743         0   0.16584E-02  440071.1 3762209.5   212.8     3.89     6.98
3.62     YES   HRDOW
 L0012744         0   0.16584E-02  440086.1 3762209.9   212.8     3.89     6.98
3.62     YES   HRDOW
 L0012745         0   0.16584E-02  440101.1 3762210.4   212.8     3.89     6.98
3.62     YES   HRDOW
 L0012746         0   0.16584E-02  440116.1 3762210.8   212.9     3.89     6.98
3.62     YES   HRDOW
 L0012747         0   0.16584E-02  440131.1 3762211.2   213.0     3.89     6.98
3.62     YES   HRDOW
 L0012748         0   0.16584E-02  440146.1 3762211.7   213.1     3.89     6.98
3.62     YES   HRDOW
 L0012749         0   0.16584E-02  440161.1 3762212.1   213.2     3.89     6.98
3.62     YES   HRDOW
 L0012750         0   0.16584E-02  440167.5 3762203.9   213.1     3.89     6.98
3.62     YES   HRDOW
 L0012751         0   0.16584E-02  440167.1 3762188.9   213.0     3.89     6.98
3.62     YES   HRDOW
 L0012752         0   0.16584E-02  440154.0 3762186.5   212.9     3.89     6.98
3.62     YES   HRDOW
 L0012753         0   0.16584E-02  440139.0 3762185.8   212.8     3.89     6.98
3.62     YES   HRDOW
 L0012754         0   0.16584E-02  440124.0 3762185.2   212.8     3.89     6.98
3.62     YES   HRDOW
 L0012755         0   0.16584E-02  440109.0 3762184.6   212.7     3.89     6.98
3.62     YES   HRDOW
 L0012756         0   0.16584E-02  440094.0 3762183.9   212.7     3.89     6.98
3.62     YES   HRDOW
 L0012757         0   0.16584E-02  440079.0 3762183.3   212.7     3.89     6.98
3.62     YES   HRDOW
 L0012758         0   0.16584E-02  440064.0 3762182.7   212.7     3.89     6.98
3.62     YES   HRDOW
 L0012759         0   0.16584E-02  440049.1 3762182.0   212.7     3.89     6.98
3.62     YES   HRDOW
 L0012760         0   0.16584E-02  440034.1 3762181.4   212.7     3.89     6.98
3.62     YES   HRDOW
 L0012761         0   0.16584E-02  440019.1 3762180.8   212.5     3.89     6.98
3.62     YES   HRDOW
 L0012762         0   0.16584E-02  440004.1 3762180.1   212.2     3.89     6.98
3.62     YES   HRDOW
 L0012763         0   0.16584E-02  439989.1 3762179.5   211.8     3.89     6.98
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0012764	0	0.16584E-02	439974.1	3762178.9	211.6	3.89	6.98	3.62	YES	HRDOW
L0012765	0	0.16584E-02	439959.1	3762178.2	211.5	3.89	6.98	3.62	YES	HRDOW
L0012766	0	0.16584E-02	439944.2	3762177.6	211.6	3.89	6.98	3.62	YES	HRDOW
L0011892	0	0.54802E-02	439902.0	3762096.9	210.3	3.11	6.98	2.89	YES	HRDOW
L0011893	0	0.54802E-02	439902.0	3762111.9	210.4	3.11	6.98	2.89	YES	HRDOW
L0011894	0	0.54802E-02	439902.1	3762126.9	210.5	3.11	6.98	2.89	YES	HRDOW
L0011895	0	0.54802E-02	439902.2	3762141.9	210.6	3.11	6.98	2.89	YES	HRDOW
L0011896	0	0.54802E-02	439902.2	3762156.9	210.7	3.11	6.98	2.89	YES	HRDOW
L0011897	0	0.54802E-02	439902.3	3762171.9	210.8	3.11	6.98	2.89	YES	HRDOW
L0011898	0	0.54802E-02	439902.3	3762186.9	211.0	3.11	6.98	2.89	YES	HRDOW
L0011899	0	0.54802E-02	439902.4	3762201.9	211.2	3.11	6.98	2.89	YES	HRDOW
L0011900	0	0.54802E-02	439902.4	3762216.9	211.4	3.11	6.98	2.89	YES	HRDOW
L0011901	0	0.54802E-02	439902.5	3762231.9	211.6	3.11	6.98	2.89	YES	HRDOW
L0011902	0	0.54802E-02	439902.6	3762246.9	211.8	3.11	6.98	2.89	YES	HRDOW
L0011903	0	0.54802E-02	439902.6	3762261.9	212.0	3.11	6.98	2.89	YES	HRDOW

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 L0011904         0   0.54802E-02  439902.7 3762276.9   212.3     3.11     6.98
2.89     YES   HRDOW
 L0011905         0   0.54802E-02  439902.7 3762291.9   212.5     3.11     6.98
2.89     YES   HRDOW
 L0011906         0   0.54802E-02  439902.8 3762306.9   212.8     3.11     6.98
2.89     YES   HRDOW
 L0011907         0   0.54802E-02  439902.8 3762321.9   213.0     3.11     6.98
2.89     YES   HRDOW
 L0011908         0   0.54802E-02  439902.9 3762336.9   213.2     3.11     6.98
2.89     YES   HRDOW
 L0011909         0   0.54802E-02  439903.0 3762351.9   213.5     3.11     6.98
2.89     YES   HRDOW
 L0011910         0   0.54802E-02  439903.0 3762366.9   213.7     3.11     6.98
2.89     YES   HRDOW
 L0011911         0   0.54802E-02  439903.1 3762381.9   213.9     3.11     6.98
2.89     YES   HRDOW
 L0011912         0   0.54802E-02  439903.1 3762396.9   214.1     3.11     6.98
2.89     YES   HRDOW
 L0011913         0   0.54802E-02  439903.2 3762411.9   214.2     3.11     6.98
2.89     YES   HRDOW
 L0011914         0   0.54802E-02  439903.2 3762426.9   214.4     3.11     6.98
2.89     YES   HRDOW
 L0011915         0   0.54802E-02  439903.3 3762441.9   214.6     3.11     6.98
2.89     YES   HRDOW
 L0011916         0   0.54802E-02  439903.4 3762456.9   214.8     3.11     6.98
2.89     YES   HRDOW
 L0011917         0   0.54802E-02  439903.4 3762471.9   215.0     3.11     6.98
2.89     YES   HRDOW
 L0011918         0   0.54802E-02  439903.5 3762486.9   215.2     3.11     6.98
2.89     YES   HRDOW
 L0011919         0   0.54802E-02  439903.5 3762501.9   215.3     3.11     6.98
2.89     YES   HRDOW
 L0011920         0   0.54802E-02  439903.6 3762516.9   215.5     3.11     6.98
2.89     YES   HRDOW
 L0011921         0   0.54802E-02  439903.6 3762531.9   215.7     3.11     6.98
2.89     YES   HRDOW
 L0011922         0   0.54802E-02  439903.7 3762546.9   215.8     3.11     6.98
2.89     YES   HRDOW
 L0011923         0   0.54802E-02  439903.8 3762561.9   216.0     3.11     6.98
2.89     YES   HRDOW
 L0011924         0   0.54802E-02  439903.8 3762576.9   216.2     3.11     6.98
2.89     YES   HRDOW
 L0011925         0   0.54802E-02  439903.9 3762591.9   216.3     3.11     6.98
2.89     YES   HRDOW
 L0011926         0   0.54802E-02  439903.9 3762606.9   216.5     3.11     6.98
2.89     YES   HRDOW
 L0011927         0   0.54802E-02  439904.0 3762621.9   216.7     3.11     6.98
2.89     YES   HRDOW
 L0011928         0   0.54802E-02  439904.0 3762636.9   216.9     3.11     6.98
2.89     YES   HRDOW
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011929	0	0.54802E-02	439904.1	3762651.9	217.2	3.11	6.98	2.89	YES	HRDOW
L0011930	0	0.54802E-02	439904.2	3762666.9	217.4	3.11	6.98	2.89	YES	HRDOW
L0011931	0	0.54802E-02	439904.2	3762681.9	217.6	3.11	6.98	2.89	YES	HRDOW
L0011932	0	0.54802E-02	439904.3	3762696.9	217.8	3.11	6.98	2.89	YES	HRDOW
L0011933	0	0.54802E-02	439904.3	3762711.9	218.0	3.11	6.98	2.89	YES	HRDOW
L0011934	0	0.54802E-02	439904.4	3762726.9	218.2	3.11	6.98	2.89	YES	HRDOW
L0011935	0	0.54802E-02	439904.4	3762741.9	218.4	3.11	6.98	2.89	YES	HRDOW
L0011936	0	0.54802E-02	439904.5	3762756.9	218.6	3.11	6.98	2.89	YES	HRDOW
L0011937	0	0.54802E-02	439904.6	3762771.9	218.8	3.11	6.98	2.89	YES	HRDOW
L0011938	0	0.54802E-02	439904.6	3762786.9	219.0	3.11	6.98	2.89	YES	HRDOW
L0011939	0	0.54802E-02	439904.7	3762801.9	219.2	3.11	6.98	2.89	YES	HRDOW
L0011940	0	0.54802E-02	439904.7	3762816.9	219.4	3.11	6.98	2.89	YES	HRDOW
L0011941	0	0.54802E-02	439904.8	3762831.9	219.6	3.11	6.98	2.89	YES	HRDOW
L0011942	0	0.54802E-02	439904.8	3762846.9	219.8	3.11	6.98	2.89	YES	HRDOW
L0011943	0	0.54802E-02	439904.9	3762861.9	220.0	3.11	6.98	2.89	YES	HRDOW
L0011944	0	0.54802E-02	439905.0	3762876.9	220.3	3.11	6.98	2.89	YES	HRDOW

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 L0011945         0   0.54802E-02  439905.0 3762891.9   220.5     3.11     6.98
2.89     YES   HRDOW
 L0011946         0   0.54802E-02  439905.1 3762906.9   220.7     3.11     6.98
2.89     YES   HRDOW
 L0011947         0   0.54802E-02  439905.1 3762921.9   220.8     3.11     6.98
2.89     YES   HRDOW
 L0011948         0   0.54802E-02  439905.2 3762936.9   221.0     3.11     6.98
2.89     YES   HRDOW
 L0011949         0   0.54802E-02  439905.2 3762951.9   221.2     3.11     6.98
2.89     YES   HRDOW
 L0011950         0   0.54802E-02  439905.3 3762966.9   221.3     3.11     6.98
2.89     YES   HRDOW
 L0011951         0   0.54802E-02  439905.3 3762981.9   221.5     3.11     6.98
2.89     YES   HRDOW
 L0011952         0   0.54802E-02  439905.4 3762996.9   221.7     3.11     6.98
2.89     YES   HRDOW
 L0011953         0   0.54802E-02  439905.5 3763011.9   221.9     3.11     6.98
2.89     YES   HRDOW
 L0011954         0   0.54802E-02  439905.5 3763026.9   222.0     3.11     6.98
2.89     YES   HRDOW
 L0011955         0   0.54802E-02  439905.6 3763041.9   222.2     3.11     6.98
2.89     YES   HRDOW
 L0011956         0   0.54802E-02  439905.6 3763056.9   222.3     3.11     6.98
2.89     YES   HRDOW
 L0011957         0   0.54802E-02  439905.7 3763071.9   222.5     3.11     6.98
2.89     YES   HRDOW
 L0011958         0   0.54802E-02  439905.7 3763086.9   222.7     3.11     6.98
2.89     YES   HRDOW
 L0011959         0   0.54802E-02  439905.8 3763101.9   222.8     3.11     6.98
2.89     YES   HRDOW
 L0011960         0   0.54802E-02  439905.9 3763116.9   223.0     3.11     6.98
2.89     YES   HRDOW
 L0011961         0   0.54802E-02  439905.9 3763131.9   223.2     3.11     6.98
2.89     YES   HRDOW
 L0011962         0   0.54802E-02  439906.0 3763146.9   223.4     3.11     6.98
2.89     YES   HRDOW
 L0011963         0   0.54802E-02  439906.0 3763161.9   223.6     3.11     6.98
2.89     YES   HRDOW
 L0011964         0   0.54802E-02  439906.1 3763176.9   223.9     3.11     6.98
2.89     YES   HRDOW
 L0011965         0   0.54802E-02  439906.1 3763191.9   224.1     3.11     6.98
2.89     YES   HRDOW
 L0011966         0   0.54802E-02  439906.2 3763206.9   224.3     3.11     6.98
2.89     YES   HRDOW
 L0011967         0   0.54802E-02  439906.3 3763221.9   224.5     3.11     6.98
2.89     YES   HRDOW
 L0011968         0   0.54802E-02  439906.3 3763236.9   224.8     3.11     6.98
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0011969	0	0.54802E-02	439906.4	3763251.9	225.0	3.11	6.98	2.89	YES	HRDOW
L0011970	0	0.54802E-02	439906.4	3763266.9	225.2	3.11	6.98	2.89	YES	HRDOW
L0011971	0	0.54802E-02	439906.5	3763281.9	225.4	3.11	6.98	2.89	YES	HRDOW
L0011972	0	0.54802E-02	439906.5	3763296.9	225.5	3.11	6.98	2.89	YES	HRDOW
L0011973	0	0.54802E-02	439906.6	3763311.9	225.7	3.11	6.98	2.89	YES	HRDOW
L0011974	0	0.54802E-02	439906.7	3763326.9	225.9	3.11	6.98	2.89	YES	HRDOW
L0011975	0	0.54802E-02	439906.7	3763341.9	226.0	3.11	6.98	2.89	YES	HRDOW
L0011976	0	0.54802E-02	439906.8	3763356.9	226.2	3.11	6.98	2.89	YES	HRDOW
L0011977	0	0.54802E-02	439906.8	3763371.9	226.3	3.11	6.98	2.89	YES	HRDOW
L0011978	0	0.54802E-02	439906.9	3763386.9	226.5	3.11	6.98	2.89	YES	HRDOW
L0011979	0	0.54802E-02	439906.9	3763401.9	226.6	3.11	6.98	2.89	YES	HRDOW
L0011980	0	0.54802E-02	439907.0	3763416.9	226.8	3.11	6.98	2.89	YES	HRDOW
L0011981	0	0.54802E-02	439907.1	3763431.9	226.9	3.11	6.98	2.89	YES	HRDOW
L0011982	0	0.54802E-02	439907.1	3763446.9	227.0	3.11	6.98	2.89	YES	HRDOW
L0011983	0	0.19716E-02	439900.2	3762076.7	210.1	3.11	4.19	2.89	YES	HRDOW
L0011984	0	0.19716E-02	439909.2	3762076.7	210.2	3.11	4.19	2.89	YES	HRDOW
L0011985	0	0.19716E-02	439918.2	3762076.7	210.2	3.11	4.19	2.89	YES	HRDOW

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 L0011986         0   0.19716E-02  439927.2 3762076.7   210.2     3.11     4.19
2.89     YES   HRDOW
 L0011987         0   0.19716E-02  439936.2 3762076.7   210.2     3.11     4.19
2.89     YES   HRDOW
 L0011988         0   0.19716E-02  439945.2 3762076.7   210.2     3.11     4.19
2.89     YES   HRDOW
 L0011989         0   0.19716E-02  439954.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0011990         0   0.19716E-02  439963.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0011991         0   0.19716E-02  439972.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0011992         0   0.19716E-02  439981.2 3762076.7   210.2     3.11     4.19
2.89     YES   HRDOW
 L0011993         0   0.19716E-02  439990.2 3762076.7   210.2     3.11     4.19
2.89     YES   HRDOW
 L0011994         0   0.19716E-02  439999.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0011995         0   0.19716E-02  440008.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0011996         0   0.19716E-02  440017.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0011997         0   0.19716E-02  440026.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0011998         0   0.19716E-02  440035.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0011999         0   0.19716E-02  440044.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0012000         0   0.19716E-02  440053.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0012001         0   0.19716E-02  440062.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0012002         0   0.19716E-02  440071.2 3762076.7   210.3     3.11     4.19
2.89     YES   HRDOW
 L0012003         0   0.19716E-02  440080.2 3762076.7   210.4     3.11     4.19
2.89     YES   HRDOW
 L0012004         0   0.19716E-02  440089.2 3762076.7   210.4     3.11     4.19
2.89     YES   HRDOW
 L0012005         0   0.19716E-02  440098.2 3762076.7   210.4     3.11     4.19
2.89     YES   HRDOW
 L0012006         0   0.19716E-02  440107.2 3762076.7   210.4     3.11     4.19
2.89     YES   HRDOW
 L0012007         0   0.19716E-02  440116.2 3762076.7   210.4     3.11     4.19
2.89     YES   HRDOW
 L0012008         0   0.19716E-02  440125.2 3762076.7   210.5     3.11     4.19
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0012009	0	0.19716E-02	440134.2	3762076.7	210.5	3.11	4.19	2.89	YES	HRDOW
L0012010	0	0.19716E-02	440143.2	3762076.7	210.5	3.11	4.19	2.89	YES	HRDOW
L0012011	0	0.19716E-02	440152.2	3762076.7	210.6	3.11	4.19	2.89	YES	HRDOW
L0012012	0	0.19716E-02	440161.2	3762076.7	210.6	3.11	4.19	2.89	YES	HRDOW
L0012013	0	0.19716E-02	440170.2	3762076.7	210.6	3.11	4.19	2.89	YES	HRDOW
L0012014	0	0.19716E-02	440179.2	3762076.7	210.7	3.11	4.19	2.89	YES	HRDOW
L0012015	0	0.19716E-02	440188.2	3762076.7	210.8	3.11	4.19	2.89	YES	HRDOW
L0012016	0	0.19716E-02	440197.2	3762076.7	210.8	3.11	4.19	2.89	YES	HRDOW
L0012017	0	0.19716E-02	440206.2	3762076.7	210.8	3.11	4.19	2.89	YES	HRDOW
L0012018	0	0.19716E-02	440215.2	3762076.7	210.9	3.11	4.19	2.89	YES	HRDOW
L0012019	0	0.19716E-02	440224.2	3762076.7	210.9	3.11	4.19	2.89	YES	HRDOW
L0012020	0	0.19716E-02	440233.2	3762076.7	210.9	3.11	4.19	2.89	YES	HRDOW
L0012021	0	0.19716E-02	440242.2	3762076.7	211.0	3.11	4.19	2.89	YES	HRDOW
L0012022	0	0.19716E-02	440251.2	3762076.7	211.0	3.11	4.19	2.89	YES	HRDOW
L0012023	0	0.19716E-02	440260.2	3762076.7	211.0	3.11	4.19	2.89	YES	HRDOW
L0012024	0	0.19716E-02	440269.2	3762076.7	211.1	3.11	4.19	2.89	YES	HRDOW
L0012025	0	0.19716E-02	440278.2	3762076.7	211.1	3.11	4.19	2.89	YES	HRDOW
L0012026	0	0.19716E-02	440287.2	3762076.7	211.1	3.11	4.19	2.89	YES	HRDOW

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 L0012027         0   0.19716E-02  440296.2 3762076.7   211.0     3.11     4.19
2.89     YES   HRDOW
 L0012028         0   0.19716E-02  440305.2 3762076.7   211.0     3.11     4.19
2.89     YES   HRDOW
 L0012029         0   0.19716E-02  440314.2 3762076.7   211.0     3.11     4.19
2.89     YES   HRDOW
 L0012030         0   0.19716E-02  440323.2 3762076.7   210.9     3.11     4.19
2.89     YES   HRDOW
 L0012031         0   0.19716E-02  440332.2 3762076.7   210.8     3.11     4.19
2.89     YES   HRDOW
 L0012032         0   0.19716E-02  440341.2 3762076.7   210.8     3.11     4.19
2.89     YES   HRDOW
 L0012033         0   0.19716E-02  440350.2 3762076.7   210.9     3.11     4.19
2.89     YES   HRDOW
 L0012034         0   0.19716E-02  440359.2 3762076.7   211.1     3.11     4.19
2.89     YES   HRDOW
 L0012035         0   0.19716E-02  440368.2 3762076.7   211.3     3.11     4.19
2.89     YES   HRDOW
 L0012036         0   0.19716E-02  440377.2 3762076.7   211.4     3.11     4.19
2.89     YES   HRDOW
 L0012037         0   0.19716E-02  440386.2 3762076.7   211.5     3.11     4.19
2.89     YES   HRDOW
 L0012038         0   0.19716E-02  440395.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012039         0   0.19716E-02  440404.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012040         0   0.19716E-02  440413.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012041         0   0.19716E-02  440422.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012042         0   0.19716E-02  440431.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012043         0   0.19716E-02  440440.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012044         0   0.19716E-02  440449.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012045         0   0.19716E-02  440458.2 3762076.7   211.5     3.11     4.19
2.89     YES   HRDOW
 L0012046         0   0.19716E-02  440467.2 3762076.7   211.5     3.11     4.19
2.89     YES   HRDOW
 L0012047         0   0.19716E-02  440476.2 3762076.7   211.5     3.11     4.19
2.89     YES   HRDOW
 L0012048         0   0.19716E-02  440485.2 3762076.7   211.5     3.11     4.19
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0012049	0	0.19716E-02	440494.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012050	0	0.19716E-02	440503.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012051	0	0.19716E-02	440512.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012052	0	0.19716E-02	440521.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012053	0	0.19716E-02	440530.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012054	0	0.19716E-02	440539.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012055	0	0.19716E-02	440548.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012056	0	0.19716E-02	440557.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012057	0	0.19716E-02	440566.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012058	0	0.19716E-02	440575.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012059	0	0.19716E-02	440584.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012060	0	0.19716E-02	440593.2	3762076.7	211.5	3.11	4.19	2.89	YES	HRDOW
L0012061	0	0.19716E-02	440602.2	3762076.7	211.5	3.11	4.19	2.89	YES	HRDOW
L0012062	0	0.19716E-02	440611.2	3762076.7	211.5	3.11	4.19	2.89	YES	HRDOW
L0012063	0	0.19716E-02	440620.2	3762076.7	211.5	3.11	4.19	2.89	YES	HRDOW
L0012064	0	0.19716E-02	440629.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012065	0	0.19716E-02	440638.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012066	0	0.19716E-02	440647.2	3762076.7	211.7	3.11	4.19	2.89	YES	HRDOW
L0012067	0	0.19716E-02	440656.2	3762076.7	211.8	3.11	4.19	2.89	YES	HRDOW

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 L0012068         0   0.19716E-02  440665.2 3762076.7   211.8     3.11     4.19
2.89     YES   HRDOW
 L0012069         0   0.19716E-02  440674.2 3762076.7   211.9     3.11     4.19
2.89     YES   HRDOW
 L0012070         0   0.19716E-02  440683.2 3762076.7   211.9     3.11     4.19
2.89     YES   HRDOW
 L0012071         0   0.19716E-02  440692.2 3762076.7   212.0     3.11     4.19
2.89     YES   HRDOW
 L0012072         0   0.19716E-02  440701.2 3762076.7   212.0     3.11     4.19
2.89     YES   HRDOW
 L0012073         0   0.19716E-02  440710.2 3762076.7   212.0     3.11     4.19
2.89     YES   HRDOW
 L0012074         0   0.19716E-02  440719.2 3762076.7   212.0     3.11     4.19
2.89     YES   HRDOW
 L0012075         0   0.19716E-02  440728.2 3762076.7   212.1     3.11     4.19
2.89     YES   HRDOW
 L0012076         0   0.19716E-02  440737.2 3762076.7   212.1     3.11     4.19
2.89     YES   HRDOW
 L0012077         0   0.19716E-02  440746.2 3762076.7   212.1     3.11     4.19
2.89     YES   HRDOW
 L0012078         0   0.19716E-02  440755.2 3762076.7   212.1     3.11     4.19
2.89     YES   HRDOW
 L0012079         0   0.19716E-02  440764.2 3762076.7   212.1     3.11     4.19
2.89     YES   HRDOW
 L0012080         0   0.19716E-02  440773.2 3762076.7   212.1     3.11     4.19
2.89     YES   HRDOW
 L0012081         0   0.19716E-02  440782.2 3762076.7   212.1     3.11     4.19
2.89     YES   HRDOW
 L0012082         0   0.19716E-02  440791.2 3762076.7   212.0     3.11     4.19
2.89     YES   HRDOW
 L0012083         0   0.19716E-02  440800.2 3762076.7   211.9     3.11     4.19
2.89     YES   HRDOW
 L0012084         0   0.19716E-02  440809.2 3762076.7   211.9     3.11     4.19
2.89     YES   HRDOW
 L0012085         0   0.19716E-02  440818.2 3762076.7   211.9     3.11     4.19
2.89     YES   HRDOW
 L0012086         0   0.19716E-02  440827.2 3762076.7   211.8     3.11     4.19
2.89     YES   HRDOW
 L0012087         0   0.19716E-02  440836.2 3762076.7   211.8     3.11     4.19
2.89     YES   HRDOW
 L0012088         0   0.19716E-02  440845.2 3762076.7   211.8     3.11     4.19
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE VARY BY
L0012089	0	0.19716E-02	440854.2	3762076.7	211.8	3.11	4.19	2.89	YES	HRDOW
L0012090	0	0.19716E-02	440863.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012091	0	0.19716E-02	440872.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012092	0	0.19716E-02	440881.2	3762076.7	212.0	3.11	4.19	2.89	YES	HRDOW
L0012093	0	0.19716E-02	440890.2	3762076.7	212.0	3.11	4.19	2.89	YES	HRDOW
L0012094	0	0.19716E-02	440899.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012095	0	0.19716E-02	440908.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012096	0	0.19716E-02	440917.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012097	0	0.19716E-02	440926.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012098	0	0.19716E-02	440935.2	3762076.7	212.0	3.11	4.19	2.89	YES	HRDOW
L0012099	0	0.19716E-02	440944.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012100	0	0.19716E-02	440953.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012101	0	0.19716E-02	440962.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012102	0	0.19716E-02	440971.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012103	0	0.19716E-02	440980.2	3762076.7	211.9	3.11	4.19	2.89	YES	HRDOW
L0012104	0	0.19716E-02	440989.2	3762076.7	211.8	3.11	4.19	2.89	YES	HRDOW
L0012105	0	0.19716E-02	440998.2	3762076.7	211.8	3.11	4.19	2.89	YES	HRDOW
L0012106	0	0.19716E-02	441007.2	3762076.7	211.7	3.11	4.19	2.89	YES	HRDOW
L0012107	0	0.19716E-02	441016.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW
L0012108	0	0.19716E-02	441025.2	3762076.7	211.6	3.11	4.19	2.89	YES	HRDOW

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 L0012109         0   0.19716E-02  441034.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012110         0   0.19716E-02  441043.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012111         0   0.19716E-02  441052.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012112         0   0.19716E-02  441061.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012113         0   0.19716E-02  441070.2 3762076.7   211.6     3.11     4.19
2.89     YES   HRDOW
 L0012114         0   0.19716E-02  441079.2 3762076.7   211.5     3.11     4.19
2.89     YES   HRDOW
 L0012115         0   0.19716E-02  441088.2 3762076.7   211.5     3.11     4.19
2.89     YES   HRDOW
 L0012116         0   0.19716E-02  441097.2 3762076.7   211.4     3.11     4.19
2.89     YES   HRDOW
 L0012117         0   0.19716E-02  441106.2 3762076.7   211.4     3.11     4.19
2.89     YES   HRDOW
 L0012118         0   0.19716E-02  441115.2 3762076.7   211.3     3.11     4.19
2.89     YES   HRDOW
 L0012119         0   0.19716E-02  441124.2 3762076.7   211.3     3.11     4.19
2.89     YES   HRDOW
 L0012120         0   0.19716E-02  441133.2 3762076.7   211.3     3.11     4.19
2.89     YES   HRDOW
 L0012121         0   0.19716E-02  441142.2 3762076.7   211.3     3.11     4.19
2.89     YES   HRDOW
 L0012122         0   0.19716E-02  441151.2 3762076.7   211.4     3.11     4.19
2.89     YES   HRDOW
 L0012123         0   0.54945E-02  439898.1 3762057.2   209.9     3.11     6.98
2.89     YES   HRDOW
 L0012124         0   0.54945E-02  439897.9 3762042.2   209.8     3.11     6.98
2.89     YES   HRDOW
 L0012125         0   0.54945E-02  439897.7 3762027.2   209.7     3.11     6.98
2.89     YES   HRDOW
 L0012126         0   0.54945E-02  439897.5 3762012.2   209.6     3.11     6.98
2.89     YES   HRDOW
 L0012127         0   0.54945E-02  439897.3 3761997.2   209.5     3.11     6.98
2.89     YES   HRDOW
 L0012128         0   0.54945E-02  439897.2 3761982.2   209.4     3.11     6.98
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***
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SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0012129	0	0.54945E-02	439897.0	3761967.2	209.2	3.11	6.98	2.89	YES	HRDOW
L0012130	0	0.54945E-02	439896.8	3761952.2	209.1	3.11	6.98	2.89	YES	HRDOW
L0012131	0	0.54945E-02	439896.6	3761937.2	208.9	3.11	6.98	2.89	YES	HRDOW
L0012132	0	0.54945E-02	439896.4	3761922.2	208.8	3.11	6.98	2.89	YES	HRDOW
L0012133	0	0.54945E-02	439896.3	3761907.2	208.7	3.11	6.98	2.89	YES	HRDOW
L0012134	0	0.54945E-02	439896.1	3761892.2	208.6	3.11	6.98	2.89	YES	HRDOW
L0012135	0	0.54945E-02	439895.9	3761877.2	208.4	3.11	6.98	2.89	YES	HRDOW
L0012136	0	0.54945E-02	439895.7	3761862.2	208.3	3.11	6.98	2.89	YES	HRDOW
L0012137	0	0.54945E-02	439895.5	3761847.2	208.2	3.11	6.98	2.89	YES	HRDOW
L0012138	0	0.54945E-02	439895.4	3761832.2	208.0	3.11	6.98	2.89	YES	HRDOW
L0012139	0	0.54945E-02	439895.2	3761817.2	207.9	3.11	6.98	2.89	YES	HRDOW
L0012140	0	0.54945E-02	439895.0	3761802.2	207.8	3.11	6.98	2.89	YES	HRDOW
L0012141	0	0.54945E-02	439894.8	3761787.2	207.6	3.11	6.98	2.89	YES	HRDOW
L0012142	0	0.54945E-02	439894.6	3761772.2	207.5	3.11	6.98	2.89	YES	HRDOW
L0012143	0	0.54945E-02	439894.5	3761757.2	207.4	3.11	6.98	2.89	YES	HRDOW
L0012144	0	0.54945E-02	439894.3	3761742.2	207.2	3.11	6.98	2.89	YES	HRDOW
L0012145	0	0.54945E-02	439894.1	3761727.2	207.1	3.11	6.98	2.89	YES	HRDOW
L0012146	0	0.54945E-02	439893.9	3761712.2	207.0	3.11	6.98	2.89	YES	HRDOW
L0012147	0	0.54945E-02	439893.7	3761697.2	206.9	3.11	6.98	2.89	YES	HRDOW
L0012148	0	0.54945E-02	439893.6	3761682.2	206.7	3.11	6.98	2.89	YES	HRDOW
L0012149	0	0.54945E-02	439893.4	3761667.2	206.6	3.11	6.98	2.89	YES	HRDOW

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 L0012150         0   0.54945E-02  439893.2 3761652.2   206.5     3.11     6.98
2.89     YES   HRDOW
 L0012151         0   0.54945E-02  439893.0 3761637.2   206.3     3.11     6.98
2.89     YES   HRDOW
 L0012152         0   0.54945E-02  439892.8 3761622.2   206.2     3.11     6.98
2.89     YES   HRDOW
 L0012153         0   0.54945E-02  439892.7 3761607.2   206.1     3.11     6.98
2.89     YES   HRDOW
 L0012154         0   0.54945E-02  439892.5 3761592.2   206.0     3.11     6.98
2.89     YES   HRDOW
 L0012155         0   0.54945E-02  439892.3 3761577.2   205.8     3.11     6.98
2.89     YES   HRDOW
 L0012156         0   0.54945E-02  439892.1 3761562.2   205.7     3.11     6.98
2.89     YES   HRDOW
 L0012157         0   0.54945E-02  439891.9 3761547.2   205.5     3.11     6.98
2.89     YES   HRDOW
 L0012158         0   0.54945E-02  439891.8 3761532.2   205.3     3.11     6.98
2.89     YES   HRDOW
 L0012159         0   0.54945E-02  439891.6 3761517.2   205.1     3.11     6.98
2.89     YES   HRDOW
 L0012160         0   0.54945E-02  439891.4 3761502.2   205.0     3.11     6.98
2.89     YES   HRDOW
 L0012161         0   0.54945E-02  439891.2 3761487.2   204.8     3.11     6.98
2.89     YES   HRDOW
 L0012162         0   0.54945E-02  439891.0 3761472.2   204.6     3.11     6.98
2.89     YES   HRDOW
 L0012163         0   0.54945E-02  439890.9 3761457.2   204.4     3.11     6.98
2.89     YES   HRDOW
 L0011686         0   0.48544E-02  440183.9 3762469.3   216.2     3.11     6.98
2.89     YES   HRDOW
 L0011687         0   0.48544E-02  440198.9 3762469.5   216.0     3.11     6.98
2.89     YES   HRDOW
 L0011688         0   0.48544E-02  440213.9 3762469.7   215.9     3.11     6.98
2.89     YES   HRDOW
 L0011689         0   0.48544E-02  440228.9 3762469.9   216.0     3.11     6.98
2.89     YES   HRDOW
 L0011690         0   0.48544E-02  440243.9 3762470.1   216.3     3.11     6.98
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
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SOURCE ID	PART. SCALAR CATS.	(GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ SOURCE (METERS)	
L0011691	0	0.48544E-02	440258.9	3762470.3	216.7	3.11	6.98	2.89	YES HRDOW
L0011692	0	0.48544E-02	440273.9	3762470.5	217.1	3.11	6.98	2.89	YES HRDOW
L0011693	0	0.48544E-02	440288.9	3762470.7	217.3	3.11	6.98	2.89	YES HRDOW
L0011694	0	0.48544E-02	440303.9	3762470.9	217.4	3.11	6.98	2.89	YES HRDOW
L0011695	0	0.48544E-02	440318.9	3762471.1	217.5	3.11	6.98	2.89	YES HRDOW
L0011696	0	0.48544E-02	440333.9	3762471.3	217.6	3.11	6.98	2.89	YES HRDOW
L0011697	0	0.48544E-02	440348.6	3762471.2	217.6	3.11	6.98	2.89	YES HRDOW
L0011698	0	0.48544E-02	440349.0	3762456.2	216.2	3.11	6.98	2.89	YES HRDOW
L0011699	0	0.48544E-02	440349.4	3762441.2	215.6	3.11	6.98	2.89	YES HRDOW
L0011700	0	0.48544E-02	440334.8	3762440.6	215.6	3.11	6.98	2.89	YES HRDOW
L0011701	0	0.48544E-02	440319.8	3762440.5	215.6	3.11	6.98	2.89	YES HRDOW
L0011702	0	0.48544E-02	440304.8	3762440.3	215.6	3.11	6.98	2.89	YES HRDOW
L0011703	0	0.48544E-02	440289.8	3762440.2	215.6	3.11	6.98	2.89	YES HRDOW
L0011704	0	0.48544E-02	440274.8	3762440.1	215.6	3.11	6.98	2.89	YES HRDOW
L0011705	0	0.48544E-02	440259.8	3762439.9	215.5	3.11	6.98	2.89	YES HRDOW
L0011706	0	0.48544E-02	440244.8	3762439.8	215.4	3.11	6.98	2.89	YES HRDOW
L0011707	0	0.48544E-02	440229.8	3762439.7	215.4	3.11	6.98	2.89	YES HRDOW
L0011708	0	0.48544E-02	440214.8	3762439.5	215.4	3.11	6.98	2.89	YES HRDOW
L0011709	0	0.48544E-02	440199.8	3762439.4	215.6	3.11	6.98	2.89	YES HRDOW
L0011710	0	0.48544E-02	440184.8	3762439.2	215.8	3.11	6.98	2.89	YES HRDOW
L0011711	0	0.48544E-02	440179.7	3762429.5	215.8	3.11	6.98	2.89	YES HRDOW
L0011712	0	0.48544E-02	440180.1	3762414.6	215.5	3.11	6.98	2.89	YES HRDOW

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 L0011713         0   0.48544E-02  440190.7 3762410.3   215.2     3.11     6.98
2.89     YES   HRDOW
 L0011714         0   0.48544E-02  440205.7 3762410.8   215.0     3.11     6.98
2.89     YES   HRDOW
 L0011715         0   0.48544E-02  440220.7 3762411.3   214.8     3.11     6.98
2.89     YES   HRDOW
 L0011716         0   0.48544E-02  440235.7 3762411.7   214.7     3.11     6.98
2.89     YES   HRDOW
 L0011717         0   0.48544E-02  440250.7 3762412.2   214.8     3.11     6.98
2.89     YES   HRDOW
 L0011718         0   0.48544E-02  440265.6 3762412.7   215.0     3.11     6.98
2.89     YES   HRDOW
 L0011719         0   0.48544E-02  440280.6 3762413.2   215.1     3.11     6.98
2.89     YES   HRDOW
 L0011720         0   0.48544E-02  440295.6 3762413.6   215.2     3.11     6.98
2.89     YES   HRDOW
 L0011721         0   0.48544E-02  440310.6 3762414.1   215.2     3.11     6.98
2.89     YES   HRDOW
 L0011722         0   0.48544E-02  440325.6 3762414.6   215.2     3.11     6.98
2.89     YES   HRDOW
 L0011723         0   0.48544E-02  440340.6 3762415.0   215.2     3.11     6.98
2.89     YES   HRDOW
 L0011724         0   0.48544E-02  440350.8 3762410.7   215.2     3.11     6.98
2.89     YES   HRDOW
 L0011725         0   0.48544E-02  440350.3 3762395.7   215.1     3.11     6.98
2.89     YES   HRDOW
 L0011726         0   0.48544E-02  440340.8 3762389.8   215.0     3.11     6.98
2.89     YES   HRDOW
 L0011727         0   0.48544E-02  440325.8 3762389.5   215.0     3.11     6.98
2.89     YES   HRDOW
 L0011728         0   0.48544E-02  440310.8 3762389.1   215.0     3.11     6.98
2.89     YES   HRDOW
 L0011729         0   0.48544E-02  440295.8 3762388.8   215.0     3.11     6.98
2.89     YES   HRDOW
 L0011730         0   0.48544E-02  440280.8 3762388.5   214.9     3.11     6.98
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
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ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)		BY
L0011731	0	0.48544E-02	440265.8	3762388.1	214.8	3.11	6.98	2.89	YES	HRDOW
L0011732	0	0.48544E-02	440250.8	3762387.8	214.4	3.11	6.98	2.89	YES	HRDOW
L0011733	0	0.48544E-02	440235.8	3762387.4	214.3	3.11	6.98	2.89	YES	HRDOW
L0011734	0	0.48544E-02	440220.8	3762387.1	214.4	3.11	6.98	2.89	YES	HRDOW
L0011735	0	0.48544E-02	440205.8	3762386.8	214.7	3.11	6.98	2.89	YES	HRDOW
L0011736	0	0.48544E-02	440190.8	3762386.4	214.9	3.11	6.98	2.89	YES	HRDOW
L0011737	0	0.48544E-02	440178.6	3762383.3	215.0	3.11	6.98	2.89	YES	HRDOW
L0011738	0	0.48544E-02	440178.3	3762368.3	214.8	3.11	6.98	2.89	YES	HRDOW
L0011739	0	0.48544E-02	440178.5	3762353.9	214.6	3.11	6.98	2.89	YES	HRDOW
L0011740	0	0.48544E-02	440193.5	3762354.4	214.6	3.11	6.98	2.89	YES	HRDOW
L0011741	0	0.48544E-02	440208.5	3762355.0	214.4	3.11	6.98	2.89	YES	HRDOW
L0011742	0	0.48544E-02	440223.5	3762355.5	214.2	3.11	6.98	2.89	YES	HRDOW
L0011743	0	0.48544E-02	440238.5	3762356.0	214.0	3.11	6.98	2.89	YES	HRDOW
L0011744	0	0.48544E-02	440253.5	3762356.6	214.2	3.11	6.98	2.89	YES	HRDOW
L0011745	0	0.48544E-02	440268.5	3762357.1	214.6	3.11	6.98	2.89	YES	HRDOW
L0011746	0	0.48544E-02	440283.5	3762357.7	214.8	3.11	6.98	2.89	YES	HRDOW
L0011747	0	0.48544E-02	440298.4	3762358.2	215.0	3.11	6.98	2.89	YES	HRDOW
L0011748	0	0.48544E-02	440313.4	3762358.7	215.0	3.11	6.98	2.89	YES	HRDOW
L0011749	0	0.48544E-02	440328.4	3762359.3	214.9	3.11	6.98	2.89	YES	HRDOW
L0011750	0	0.48544E-02	440343.4	3762359.8	214.9	3.11	6.98	2.89	YES	HRDOW
L0011751	0	0.48544E-02	440348.5	3762351.0	214.9	3.11	6.98	2.89	YES	HRDOW
L0011752	0	0.48544E-02	440347.1	3762336.1	214.9	3.11	6.98	2.89	YES	HRDOW
L0011753	0	0.48544E-02	440332.7	3762334.9	214.9	3.11	6.98	2.89	YES	HRDOW

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 L0011754         0   0.48544E-02  440317.7 3762334.3   214.9     3.11     6.98
2.89     YES   HRDOW
 L0011755         0   0.48544E-02  440302.8 3762333.7   214.9     3.11     6.98
2.89     YES   HRDOW
 L0011756         0   0.48544E-02  440287.8 3762333.1   214.8     3.11     6.98
2.89     YES   HRDOW
 L0011757         0   0.48544E-02  440272.8 3762332.5   214.4     3.11     6.98
2.89     YES   HRDOW
 L0011758         0   0.48544E-02  440257.8 3762332.0   214.0     3.11     6.98
2.89     YES   HRDOW
 L0011759         0   0.48544E-02  440242.8 3762331.4   213.6     3.11     6.98
2.89     YES   HRDOW
 L0011760         0   0.48544E-02  440227.8 3762330.8   213.8     3.11     6.98
2.89     YES   HRDOW
 L0011761         0   0.48544E-02  440212.8 3762330.2   214.0     3.11     6.98
2.89     YES   HRDOW
 L0011762         0   0.48544E-02  440197.8 3762329.6   214.3     3.11     6.98
2.89     YES   HRDOW
 L0011763         0   0.48544E-02  440188.7 3762323.4   214.3     3.11     6.98
2.89     YES   HRDOW
 L0011764         0   0.48544E-02  440188.7 3762308.4   214.1     3.11     6.98
2.89     YES   HRDOW
 L0011765         0   0.48544E-02  440188.7 3762293.4   213.9     3.11     6.98
2.89     YES   HRDOW
 L0011766         0   0.48544E-02  440188.7 3762278.4   213.7     3.11     6.98
2.89     YES   HRDOW
 L0011767         0   0.48544E-02  440188.7 3762263.4   213.5     3.11     6.98
2.89     YES   HRDOW
 L0011768         0   0.48544E-02  440195.8 3762256.1   213.3     3.11     6.98
2.89     YES   HRDOW
 L0011769         0   0.48544E-02  440210.7 3762257.3   213.1     3.11     6.98
2.89     YES   HRDOW
 L0011770         0   0.48544E-02  440225.7 3762258.5   212.9     3.11     6.98
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0011795         0   0.48544E-02  440193.6 3762198.6   212.7     3.11     6.98
2.89     YES   HRDOW
 L0011796         0   0.48544E-02  440208.6 3762198.6   212.3     3.11     6.98
2.89     YES   HRDOW
 L0011797         0   0.48544E-02  440223.6 3762198.6   212.1     3.11     6.98
2.89     YES   HRDOW
 L0011798         0   0.48544E-02  440238.6 3762198.6   211.9     3.11     6.98
2.89     YES   HRDOW
 L0011799         0   0.48544E-02  440253.6 3762198.6   212.2     3.11     6.98
2.89     YES   HRDOW
 L0011800         0   0.48544E-02  440268.6 3762198.6   212.6     3.11     6.98
2.89     YES   HRDOW
 L0011801         0   0.48544E-02  440283.6 3762198.6   213.0     3.11     6.98
2.89     YES   HRDOW
 L0011802         0   0.48544E-02  440298.6 3762198.6   213.3     3.11     6.98
2.89     YES   HRDOW
 L0011803         0   0.48544E-02  440313.6 3762198.6   213.4     3.11     6.98
2.89     YES   HRDOW
 L0011804         0   0.48544E-02  440328.6 3762198.6   213.4     3.11     6.98
2.89     YES   HRDOW
 L0011805         0   0.48544E-02  440343.6 3762198.6   213.3     3.11     6.98
2.89     YES   HRDOW
 L0011806         0   0.48544E-02  440350.1 3762190.1   213.1     3.11     6.98
2.89     YES   HRDOW
 L0011807         0   0.48544E-02  440350.1 3762175.1   212.9     3.11     6.98
2.89     YES   HRDOW
 L0011808         0   0.48544E-02  440345.5 3762164.6   212.6     3.11     6.98
2.89     YES   HRDOW
 L0011809         0   0.48544E-02  440330.5 3762164.2   212.6     3.11     6.98
2.89     YES   HRDOW
 L0011810         0   0.48544E-02  440315.5 3762163.8   212.6     3.11     6.98
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -
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 L0011811         0   0.48544E-02  440300.5 3762163.4   212.5     3.11     6.98
2.89     YES   HRDOW
 L0011812         0   0.48544E-02  440285.5 3762162.9   212.4     3.11     6.98
2.89     YES   HRDOW
 L0011813         0   0.48544E-02  440270.5 3762162.5   212.2     3.11     6.98
2.89     YES   HRDOW
 L0011814         0   0.48544E-02  440255.5 3762162.1   212.0     3.11     6.98
2.89     YES   HRDOW
 L0011815         0   0.48544E-02  440240.5 3762161.6   211.7     3.11     6.98
2.89     YES   HRDOW
 L0011816         0   0.48544E-02  440225.5 3762161.2   211.8     3.11     6.98
2.89     YES   HRDOW
 L0011817         0   0.48544E-02  440210.5 3762160.8   211.9     3.11     6.98
2.89     YES   HRDOW
 L0011818         0   0.48544E-02  440195.5 3762160.3   212.0     3.11     6.98
2.89     YES   HRDOW
 L0011819         0   0.48544E-02  440180.5 3762159.9   212.0     3.11     6.98
2.89     YES   HRDOW
 L0011820         0   0.48544E-02  440165.6 3762159.5   212.1     3.11     6.98
2.89     YES   HRDOW
 L0011821         0   0.48544E-02  440150.6 3762159.0   212.0     3.11     6.98
2.89     YES   HRDOW
 L0011822         0   0.48544E-02  440135.6 3762158.6   211.9     3.11     6.98
2.89     YES   HRDOW
 L0011823         0   0.48544E-02  440120.6 3762158.2   211.8     3.11     6.98
2.89     YES   HRDOW
 L0011824         0   0.48544E-02  440105.6 3762157.8   211.7     3.11     6.98
2.89     YES   HRDOW
 L0011825         0   0.48544E-02  440090.6 3762157.3   211.7     3.11     6.98
2.89     YES   HRDOW
 L0011826         0   0.48544E-02  440075.6 3762156.9   211.7     3.11     6.98
2.89     YES   HRDOW
 L0011827         0   0.48544E-02  440060.6 3762156.5   211.7     3.11     6.98
2.89     YES   HRDOW
 L0011828         0   0.48544E-02  440045.6 3762156.0   211.6     3.11     6.98
2.89     YES   HRDOW
 L0011829         0   0.48544E-02  440030.6 3762155.6   211.6     3.11     6.98
2.89     YES   HRDOW
 L0011830         0   0.48544E-02  440015.6 3762155.2   211.5     3.11     6.98
2.89     YES   HRDOW
 L0011831         0   0.48544E-02  440000.6 3762154.7   211.4     3.11     6.98
2.89     YES   HRDOW
 L0011832         0   0.48544E-02  439985.6 3762154.3   211.3     3.11     6.98
2.89     YES   HRDOW
 L0011833         0   0.48544E-02  439970.6 3762153.9   211.2     3.11     6.98
2.89     YES   HRDOW
 L0011834         0   0.48544E-02  439955.6 3762153.4   211.2     3.11     6.98
2.89     YES   HRDOW
 L0011835         0   0.48544E-02  439949.1 3762145.0   211.0     3.11     6.98
2.89     YES   HRDOW
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 L0011836         0   0.48544E-02  439949.4 3762130.0   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011837         0   0.48544E-02  439955.6 3762121.1   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011838         0   0.48544E-02  439970.6 3762121.5   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011839         0   0.48544E-02  439985.6 3762121.9   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011840         0   0.48544E-02  440000.6 3762122.2   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011841         0   0.48544E-02  440015.6 3762122.6   210.7     3.11     6.98
2.89     YES   HRDOW
 L0011842         0   0.48544E-02  440030.6 3762123.0   210.7     3.11     6.98
2.89     YES   HRDOW
 L0011843         0   0.48544E-02  440045.6 3762123.4   210.7     3.11     6.98
2.89     YES   HRDOW
 L0011844         0   0.48544E-02  440060.6 3762123.7   210.7     3.11     6.98
2.89     YES   HRDOW
 L0011845         0   0.48544E-02  440075.6 3762124.1   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011846         0   0.48544E-02  440090.5 3762124.5   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011847         0   0.48544E-02  440105.5 3762124.9   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011848         0   0.48544E-02  440120.5 3762125.2   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011849         0   0.48544E-02  440135.5 3762125.6   211.0     3.11     6.98
2.89     YES   HRDOW
 L0011850         0   0.48544E-02  440150.5 3762126.0   211.1     3.11     6.98
2.89     YES   HRDOW
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS)  (METERS) (METERS) (METERS)  (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0011851         0   0.48544E-02  440165.5 3762126.4   211.2     3.11     6.98
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2.89     YES   HRDOW
 L0011853         0   0.48544E-02  440195.5 3762127.1   211.3     3.11     6.98
2.89     YES   HRDOW
 L0011854         0   0.48544E-02  440210.5 3762127.5   211.5     3.11     6.98
2.89     YES   HRDOW
 L0011855         0   0.48544E-02  440225.5 3762127.9   211.5     3.11     6.98
2.89     YES   HRDOW
 L0011856         0   0.48544E-02  440240.5 3762128.2   211.6     3.11     6.98
2.89     YES   HRDOW
 L0011857         0   0.48544E-02  440255.5 3762128.6   211.7     3.11     6.98
2.89     YES   HRDOW
 L0011858         0   0.48544E-02  440270.5 3762129.0   211.7     3.11     6.98
2.89     YES   HRDOW
 L0011859         0   0.48544E-02  440285.5 3762129.4   211.8     3.11     6.98
2.89     YES   HRDOW
 L0011860         0   0.48544E-02  440300.5 3762129.7   211.7     3.11     6.98
2.89     YES   HRDOW
 L0011861         0   0.48544E-02  440315.5 3762130.1   211.5     3.11     6.98
2.89     YES   HRDOW
 L0011862         0   0.48544E-02  440330.5 3762130.5   211.3     3.11     6.98
2.89     YES   HRDOW
 L0011863         0   0.48544E-02  440345.5 3762130.9   211.3     3.11     6.98
2.89     YES   HRDOW
 L0011864         0   0.48544E-02  440351.0 3762120.0   211.0     3.11     6.98
2.89     YES   HRDOW
 L0011865         0   0.48544E-02  440353.2 3762105.1   210.9     3.11     6.98
2.89     YES   HRDOW
 L0011866         0   0.48544E-02  440338.5 3762104.4   210.6     3.11     6.98
2.89     YES   HRDOW
 L0011867         0   0.48544E-02  440323.5 3762104.0   210.9     3.11     6.98
2.89     YES   HRDOW
 L0011868         0   0.48544E-02  440308.5 3762103.6   211.1     3.11     6.98
2.89     YES   HRDOW
 L0011869         0   0.48544E-02  440293.5 3762103.2   211.4     3.11     6.98
2.89     YES   HRDOW
 L0011870         0   0.48544E-02  440278.5 3762102.8   211.4     3.11     6.98
2.89     YES   HRDOW
 L0011871         0   0.48544E-02  440263.6 3762102.4   211.4     3.11     6.98
2.89     YES   HRDOW
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2.89     YES   HRDOW
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2.89     YES   HRDOW
 L0011875         0   0.48544E-02  440203.6 3762100.8   211.1     3.11     6.98
2.89     YES   HRDOW
 L0011876         0   0.48544E-02  440188.6 3762100.4   211.0     3.11     6.98
2.89     YES   HRDOW
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 L0011877         0   0.48544E-02  440173.6 3762100.0   210.9     3.11     6.98
2.89     YES   HRDOW
 L0011878         0   0.48544E-02  440158.6 3762099.6   210.8     3.11     6.98
2.89     YES   HRDOW
 L0011879         0   0.48544E-02  440143.6 3762099.2   210.7     3.11     6.98
2.89     YES   HRDOW
 L0011880         0   0.48544E-02  440128.6 3762098.8   210.6     3.11     6.98
2.89     YES   HRDOW
 L0011881         0   0.48544E-02  440113.6 3762098.4   210.5     3.11     6.98
2.89     YES   HRDOW
 L0011882         0   0.48544E-02  440098.6 3762098.0   210.5     3.11     6.98
2.89     YES   HRDOW
 L0011883         0   0.48544E-02  440083.6 3762097.6   210.5     3.11     6.98
2.89     YES   HRDOW
 L0011884         0   0.48544E-02  440068.6 3762097.2   210.5     3.11     6.98
2.89     YES   HRDOW
 L0011885         0   0.48544E-02  440053.6 3762096.8   210.5     3.11     6.98
2.89     YES   HRDOW
 L0011886         0   0.48544E-02  440038.6 3762096.4   210.4     3.11     6.98
2.89     YES   HRDOW
 L0011887         0   0.48544E-02  440023.6 3762096.0   210.5     3.11     6.98
2.89     YES   HRDOW
 L0011888         0   0.48544E-02  440008.6 3762095.6   210.5     3.11     6.98
2.89     YES   HRDOW
 L0011889         0   0.48544E-02  439993.7 3762095.2   210.5     3.11     6.98
2.89     YES   HRDOW
 L0011890         0   0.48544E-02  439978.7 3762094.8   210.5     3.11     6.98
2.89     YES   HRDOW
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

                                  PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0011891         0   0.48544E-02  439963.7 3762094.4   210.5     3.11     6.98
2.89     YES   HRDOW
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs

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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID   SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                           ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID — SOURCE IDs

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

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L0012097 , L0012098 , L0012099 , L0012100 , L0012101 ,
L0012102 , L0012103 , L0012104 ,

L0012105 , L0012106 , L0012107 , L0012108 , L0012109 ,
L0012110 , L0012111 , L0012112 ,

L0012113 , L0012114 , L0012115 , L0012116 , L0012117 ,
L0012118 , L0012119 , L0012120 ,

L0012121 , L0012122 , L0012123 , L0012124 , L0012125 ,
L0012126 , L0012127 , L0012128 ,

L0012129 , L0012130 , L0012131 , L0012132 , L0012133 ,
L0012134 , L0012135 , L0012136 ,

L0012137 , L0012138 , L0012139 , L0012140 , L0012141 ,
L0012142 , L0012143 , L0012144 ,

L0012145 , L0012146 , L0012147 , L0012148 , L0012149 ,
L0012150 , L0012151 , L0012152 ,

L0012153 , L0012154 , L0012155 , L0012156 , L0012157 ,
L0012158 , L0012159 , L0012160 ,

L0012161 , L0012162 , L0012163 , L0011686 , L0011687 ,
L0011688 , L0011689 , L0011690 ,

L0011691 , L0011692 , L0011693 , L0011694 , L0011695 ,
L0011696 , L0011697 , L0011698 ,

L0011699 , L0011700 , L0011701 , L0011702 , L0011703 ,
L0011704 , L0011705 , L0011706 ,

L0011707 , L0011708 , L0011709 , L0011710 , L0011711 ,
L0011712 , L0011713 , L0011714 ,

L0011715 , L0011716 , L0011717 , L0011718 , L0011719 ,
L0011720 , L0011721 , L0011722 ,

L0011723 , L0011724 , L0011725 , L0011726 , L0011727 ,
L0011728 , L0011729 , L0011730 ,

L0011731 , L0011732 , L0011733 , L0011734 , L0011735 ,
L0011736 , L0011737 , L0011738 ,

L0011739 , L0011740 , L0011741 , L0011742 , L0011743 ,
L0011744 , L0011745 , L0011746 ,

L0011747 , L0011748 , L0011749 , L0011750 , L0011751 ,
L0011752 , L0011753 , L0011754 ,

L0011755 , L0011756 , L0011757 , L0011758 , L0011759 ,
L0011760 , L0011761 , L0011762 ,

L0011763 , L0011764 , L0011765 , L0011766 , L0011767 ,
L0011768 , L0011769 , L0011770 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0011771 , L0011772 , L0011773 , L0011774 , L0011775 ,
L0011776 , L0011777 , L0011778 ,

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             L0011779    , L0011780    , L0011781    , L0011782    , L0011783    ,
L0011784    , L0011785    , L0011786    ,

             L0011787    , L0011788    , L0011789    , L0011790    , L0011791    ,
L0011792    , L0011793    , L0011794    ,

             L0011795    , L0011796    , L0011797    , L0011798    , L0011799    ,
L0011800    , L0011801    , L0011802    ,

             L0011803    , L0011804    , L0011805    , L0011806    , L0011807    ,
L0011808    , L0011809    , L0011810    ,

             L0011811    , L0011812    , L0011813    , L0011814    , L0011815    ,
L0011816    , L0011817    , L0011818    ,

             L0011819    , L0011820    , L0011821    , L0011822    , L0011823    ,
L0011824    , L0011825    , L0011826    ,

             L0011827    , L0011828    , L0011829    , L0011830    , L0011831    ,
L0011832    , L0011833    , L0011834    ,

             L0011835    , L0011836    , L0011837    , L0011838    , L0011839    ,
L0011840    , L0011841    , L0011842    ,

             L0011843    , L0011844    , L0011845    , L0011846    , L0011847    ,
L0011848    , L0011849    , L0011850    ,

             L0011851    , L0011852    , L0011853    , L0011854    , L0011855    ,
L0011856    , L0011857    , L0011858    ,

             L0011859    , L0011860    , L0011861    , L0011862    , L0011863    ,
L0011864    , L0011865    , L0011866    ,

             L0011867    , L0011868    , L0011869    , L0011870    , L0011871    ,
L0011872    , L0011873    , L0011874    ,

             L0011875    , L0011876    , L0011877    , L0011878    , L0011879    ,
L0011880    , L0011881    , L0011882    ,

             L0011883    , L0011884    , L0011885    , L0011886    , L0011887    ,
L0011888    , L0011889    , L0011890    ,

             L0011891    ,
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                           ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:25:05

                                    PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012164 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012165 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012166     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012167   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012168   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012170   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012171 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012172 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012173   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012174   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012175   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012176   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012177 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012178 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012179 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
```

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012181     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012182 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012183 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012184     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012185   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0012186     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012187     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012188     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012189 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012190 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012191 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012192   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012193 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012194 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

```
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012195     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
```

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012196   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012197     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012198     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012199 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012200   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012201   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012202 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012203 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012204 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012205 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012206     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012207     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012208     ; SOURCE TYPE = VOLUME   :
```

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                    PAGE  96
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012209     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012210     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012211 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012212 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012213     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012214     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012215 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012216 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012217     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012218   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012219   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012221 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012222 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012223 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012224   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012225   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012226   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012228 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012229 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012230 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 119
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012232     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012233 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012234 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                      ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012235     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012236   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012237     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012238     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012239     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012240   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012241   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012242 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012243   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012244 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012245 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012246 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012247   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012248     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 136
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012249     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012250   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012251   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012252   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012253 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012254 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

SOURCE ID = L0012255 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012256 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 144
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012257     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012258 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012260     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012261     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012262 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012263 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012264     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012265     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012266 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012267 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012268   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012269   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012270   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012272   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012273 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012274 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012275   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012276   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012277   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012278   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012279 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012280 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012281 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
```

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012283     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012284 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012285 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012286     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012287   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012288     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012289     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

                                    PAGE 177
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012290     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012291 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012292 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012293     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012294   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012295 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012296 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012297 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012298   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0012299     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012300     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012301   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012302   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012303   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012304 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012305 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012306 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012307 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012308     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012309 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012310 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012311     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012312     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012313 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012314 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012315     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012316     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012317 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012319     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012320   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012321   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012323   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012324 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012325 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012326   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012327   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012328   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012329   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012330 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012331 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012332 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05

                                    PAGE 221
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012334     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012335 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012336 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                   PAGE 224
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012337     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012338   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0012339     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012340     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

                                    PAGE 228
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012341     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012342   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012343   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

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- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012344     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012345   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012346 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012347 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012348 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012349   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012350     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012351     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012352   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012353   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012354   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012355 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012356 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00										

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 246
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012359     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012360 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012361 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 249
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012362     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 250
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012363     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012364 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012365 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 253
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012366     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012367     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012368 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012369 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 257
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012370     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012371   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012372   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012374   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012375 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012376 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00		

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012377   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012378   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012379   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012380   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012381 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012382 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012383 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 272
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012385     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012386 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012387 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012388     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012389   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012390     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012391     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 279
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012392     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012393 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012394 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

```
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012395     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012396   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012397 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012398 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012399 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012400   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012401     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012402     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012403 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012404   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012405   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012406 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012407 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012408 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012409 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012410     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012411 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012413     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012414     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012415 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012416 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012417     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012418     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

                                    PAGE 306
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012419 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012420 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012421   ; SOURCE TYPE = VOLUME   :

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

- - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012422   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012423   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012425   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012426 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012427 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012428   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012429   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012430   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012431   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012432 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012433 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012434 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
```

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012436     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012437 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012438 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012439     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012440 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0012441     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012442     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012443     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012444 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012445 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012446 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012447   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012448 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012449 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012450   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012451   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012452     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012453     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012454   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012455   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012456   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012457 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012458 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

SOURCE ID = L0012459 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012460 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 348
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012461     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012462 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012463 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012464     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012465     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012466 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012467 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 355
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012468     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012469     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012470 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012471 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012472   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012473   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012474   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012476   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012477 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012478 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY											
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00		

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012479   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012480   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012481   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012483 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012484 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012485 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012487     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012488 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012489 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 377
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012490     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012491   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012492     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 380
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012493     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

                                    PAGE 381
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012494     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012495 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012496 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012497 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012498   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012499 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012500 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012501 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012502   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012503     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 391
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012504     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012505   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012506   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012507   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012508 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012509 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SOURCE ID = L0012510 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012511 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 399
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012512     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012513 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012514 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012515     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012516     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012517 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012518 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012519     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012520     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 410
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012523     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012524   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012525   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012527   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012528 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012529 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012530   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012531   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012532   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012533   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012534 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012535 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012536 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012537 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SOURCE ID = L0012537 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05

                                    PAGE 425
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012538     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012539 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012540 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012541     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012542   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012543     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012544     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012545     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012546 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012547 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012548 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012549   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012550 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012551 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012552 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012553   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012554     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 442
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012555     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012556   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012557   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012558   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012559 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012560 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012561 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012562 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 450
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012563     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012564 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012565 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012566     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 454
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012567     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012568 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012569 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012570     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012571     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012572 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012573 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 461
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012574     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012575   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012576   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012577 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012578   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012579 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012580 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012581   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012582   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012583   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012584   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012585 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012586 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012587 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012589     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012590 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012591 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                   PAGE 479
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012592     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012593   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0012594     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012595     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 483
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012596     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012597 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012598 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012599 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012600   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012601 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012602 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012603 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012604   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0012605     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 493
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012606     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012607   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012608   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012609   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012610 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012611 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012614 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012615 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012616 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012617     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 505
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012618     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012619 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012620 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                   PAGE 508
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012621     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012622     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012623 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012624 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 512
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012625     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012626   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012627   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012629   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012630 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012631 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012632   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012633   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012634   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012636 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012637 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012638 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05

                                    PAGE 527
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012640     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012641 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012642 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 530
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012643     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012644   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012645     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 533
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012646     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 534
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012647     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012648 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012649 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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- - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012650     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - -
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22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012651   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012652 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012653 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012654 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012655   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012656     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 544
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012657     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012658   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012659   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012660   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012661 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012662 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

SOURCE ID = L0012663 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012664 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 552
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012665     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012666 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012667 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                    PAGE 555
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012668     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 556
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012669     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012670 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012671 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 559
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012672     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012673     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012674 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012675 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 563
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012676     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012677   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012678   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012680   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012681 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012682 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012683 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012684   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012685   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012687 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012688 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012689 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012691     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012692 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012693 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                   PAGE 581
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012694     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012695   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012696     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012697     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

                                    PAGE 585
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012698     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012699   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012700   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012701 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012702   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012703 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012704 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012705 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012706   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0012707     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 595
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012708     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012709   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012710   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012711   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012712 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012713   ; SOURCE TYPE = VOLUME   :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
```

DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

SOURCE ID = L0012714 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012715 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 603
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012716     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012717 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012718 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                    PAGE 606
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012719     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012720     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012721 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012722 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 610
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012723     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012724     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012725 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012726 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 614
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012727     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012728   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012729   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012730 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012731   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012732 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012733 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012734   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012735   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012736   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012738 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012739 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012740 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05

                                    PAGE 629
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012742     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012743 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012744 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                   PAGE 632
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012745     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012746   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0012747     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 635
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012748     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

                                    PAGE 636
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012749     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012750 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012751 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012752 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012753   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012754 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012755 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012756 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012757   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0012758     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012759     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012760   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012761   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012762   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012763 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012764 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012765 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012766 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011892 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011893 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011894 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                    PAGE 657
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011895     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 658
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011896     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011897 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011898 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 661
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011899     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011900     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011901 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011902 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011903   ; SOURCE TYPE = VOLUME   :

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

- - - -

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011904   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011905   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011906 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 669
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011907     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011908 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011909 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011910   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011911   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0011912   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011914 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011915 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011916 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011918   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011919 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011920 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

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    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                   PAGE 683
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011921     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011922   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0011923     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011924     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 687
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011925     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011926   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011927   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011928     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011929   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011930 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011931 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

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14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011932     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011933   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0011934     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 697
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011935     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
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6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011936   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011937   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011938   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011939 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011940   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                        DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                        DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011941 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 705
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011943     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011944 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011945 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                    PAGE 708
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011946     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                    PAGE 709
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011947     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011948 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011949 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 712
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011950     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011951     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011952 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011953 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 716
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011954     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011955   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011956   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011958   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011959 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011960 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011961 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011962   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0011963   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011964   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011965 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011966 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011967 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 731
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011969     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011970 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011971 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011972     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011973   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0011974     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011975     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011976     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011977 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011978 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011979 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011980   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011981 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011982 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011983 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011984   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0011985     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011986     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011987   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011988   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011989   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011990 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011991 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011992 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011993 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 756
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011994     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011995 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011996 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                    PAGE 759
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011997     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 760
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011998     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011999 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012000 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 763
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012001     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012002     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012003 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012004 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 767
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012005     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012006   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012007   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012009   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012010 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012011 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012012   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012013   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012014   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012016 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012017 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012018 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012020     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012021 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012022 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012023     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012024   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012025     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012026     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 789
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012027     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012028 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012029 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012030 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012031   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012032 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012033 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

```
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012034     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012035   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012036     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012037     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012038   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012039   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012040   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012041 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012042 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

SOURCE ID = L0012043 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012044 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 807
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012045     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012046 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012047 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      17:25:05

                                    PAGE 810
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012048     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 811
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012049     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012050 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012051 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012052     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012053     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012054 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012055 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 818
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012056     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012057   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012058   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012059 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012060   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012061 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012062 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012063 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012064   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012065   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012066   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012067 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012068 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012069 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- - - -

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012071     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012072 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012073 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012074     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                             ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***        17:25:05

                                    PAGE 837
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012075     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                             ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***        17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *
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 SOURCE ID = L0012076     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 839
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012077     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

                                    PAGE 840
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012078     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012079 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012080 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 843
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012081     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
```

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012082   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012083 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012084 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012085 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012086   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0012087     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

                                  PAGE 850
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012088     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012089   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012090   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012091   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```


* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012092 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SATURDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
```

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012093 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

SOURCE ID = L0012094 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012095 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

```
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 858
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012096     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012097 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012098 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 861
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012099     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 862
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012100     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012101 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012102 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012103     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012104     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

                                    PAGE 867
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012105 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012106 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 869
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012107     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012108   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012109   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012110 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012111   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012112 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012113 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012114 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012115   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0012116   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012117   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012118 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012119 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012120 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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DAY OF WEEK = SUNDAY

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012122 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012123 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012124 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012125     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012126   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012127     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 890
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012128     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

                                    PAGE 891
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012129     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012130 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012131 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012132 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012133   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012134 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012135 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012136   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012137   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0012138     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                  PAGE 901
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012139     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012140   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012141   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012142   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012143 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012144 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012145 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012146 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012147 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012148 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

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  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      17:25:05

                                   PAGE 912
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012150     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 913
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012151     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012152 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012153 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012154     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

                                    PAGE 917
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012155     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012156 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012157 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 920
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012158     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012159   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0012160   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0012162   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0012163 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011686 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011687 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011688   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0011689   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011691 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011692 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011693 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 935
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011695     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011696 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011697 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011698     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011699   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0011700     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011701     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                   PAGE 942
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011702     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011703 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011704 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 945
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011705     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
                                                  DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011706   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011707 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011708 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011709 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011710   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0011711     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011712     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011713   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011714   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011715   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011716 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011717 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

SOURCE ID = L0011718 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011719 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011720 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011721   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                  DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                  DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                  DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011722   ; SOURCE TYPE = VOLUME   :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011723     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011724     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011725 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011726 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011727     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011728     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

                                    PAGE 969
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011729 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011730 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 971
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011731     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011732   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011733   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011734 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011735   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011736 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011737 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011738   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011739   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0011740   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011741   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011742 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01
13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00
7	.0000E+00	8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00
13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00
19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011743 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011744 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011746     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011747 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011748 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 989
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011749     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                            DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                            DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011750 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

```
 SOURCE ID = L0011751     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                  PAGE 992
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011752     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          17:25:05

                                    PAGE 993
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011753     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011754 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011755 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

- -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011756 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

- -

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.1000E+01	9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01
15	.1000E+01	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00
22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00
8	.0000E+00	9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00
15	.0000E+00	16	.0000E+00	17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011757   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011758 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011759 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

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14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1000
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011760     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011761   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0011762     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1003
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011763     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011764   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011765   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011766   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011767 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011768   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011769 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011770 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011771 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011772   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011773   ; SOURCE TYPE = VOLUME   :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1014
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011774     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
```

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1015
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011775     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011776 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011777 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                PAGE  1018
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011778     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***        17:25:05

                                  PAGE  1019
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011779     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***        17:25:05

                                  PAGE  1020
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011780 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011781 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1022
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011782     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011783   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011784   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011786   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011787 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011788 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011789   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011790   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0011791   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011792   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011793 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011794 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011795 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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 - - -
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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1037
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011797     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011798 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011799 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011801   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0011802     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011803     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1044
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011804     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
```

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011805   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                 DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011806   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

- -
DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SUNDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011807 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011808 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011809 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011810 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011811   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                              DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                              DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011812   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0011813     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1054
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011814     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
↑ *** AERMOD - VERSION 21112 ***   *** Ontario Euclid CSTN
                        ***   03/30/23
 *** AERMET - VERSION 16216 ***   ***
                       ***   17:25:05

                                PAGE 1055
 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011815   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
↑ *** AERMOD - VERSION 21112 ***   *** Ontario Euclid CSTN
                        ***   03/30/23

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011816   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                    DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011817   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011818 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011819 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011820 ; SOURCE TYPE = VOLUME :
HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
- - - -

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011822   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011823 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011824 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1065
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011825     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                  PAGE  1066
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011826     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011827 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011828 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1069
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011829     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
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    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011830     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:25:05

                                  PAGE  1071
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011831 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011832 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                               PAGE  1073
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011833     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011834   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011835   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011836 ; SOURCE TYPE = VOLUME :

HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR HOUR SCALAR
HOUR SCALAR HOUR SCALAR HOUR SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00

14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011837   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011838 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011839 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00						

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011840   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011841   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF

WEEK (HRDOW) *

 SOURCE ID = L0011842   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011843   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011844 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01								
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00								
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00								
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00								

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011845 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011846 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

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   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1088
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011848     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011849 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

↟ *** AERMOD - VERSION 21112 *** *** Ontario Euclid CSTN
*** *** 03/30/23
*** AERMET - VERSION 16216 *** ***
*** 17:25:05

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011850 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01

```
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1091
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011851     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011852   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

```
 SOURCE ID = L0011853     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

                                PAGE  1094
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011854     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1095
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011855     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011856   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                 DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011857   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011858   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - -

22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011859   ; SOURCE TYPE = VOLUME   :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR				

DAY OF WEEK = WEEKDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011860 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011861 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01						

```
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1102
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011862     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                              DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011863   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

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 SOURCE ID = L0011864     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

                                PAGE  1105
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011865     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
                                                 DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                 DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
```

6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011866   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011867   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011868   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011869 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00
DAY OF WEEK = SATURDAY
1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011870   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011871 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011872 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011873 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .1000E+01
9 .1000E+01 10 .1000E+01 11 .1000E+01 12 .1000E+01 13 .1000E+01
14 .1000E+01 15 .1000E+01 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011874 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011875 ; SOURCE TYPE = VOLUME :

```
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011876     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
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```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1117
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011877     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011878 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SUNDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011879 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = WEEKDAY															

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                PAGE  1120
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011880     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
```

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

                                  PAGE  1121
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011881     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                            ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                            ***       17:25:05

                                  PAGE  1122
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011882 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011883 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00						

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22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1124
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011884     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                          DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                          DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
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                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011885   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01   14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                                                DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00   6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00   14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00   22 .0000E+00   23 .0000E+00   24 .0000E+00

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

 SOURCE ID = L0011886   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR

HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -

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14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1128
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011888     ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -
                                                DAY OF WEEK = WEEKDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .1000E+01
    9  .1000E+01   10  .1000E+01   11  .1000E+01   12  .1000E+01   13  .1000E+01
14  .1000E+01   15  .1000E+01   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011889 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.1000E+01
9	.1000E+01	10	.1000E+01	11	.1000E+01	12	.1000E+01	13	.1000E+01	14	.1000E+01	15	.1000E+01	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SUNDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW) *

SOURCE ID = L0011890 ; SOURCE TYPE = VOLUME :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = WEEKDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00

6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW) *

 SOURCE ID = L0011891   ; SOURCE TYPE = VOLUME   :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                          DAY OF WEEK = WEEKDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .1000E+01
    9 .1000E+01   10 .1000E+01   11 .1000E+01   12 .1000E+01   13 .1000E+01
14 .1000E+01   15 .1000E+01   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SATURDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                          DAY OF WEEK = SUNDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(440407.9, 3761497.8, 205.4, 205.4, 0.0); (439943.4, 3761716.3, 206.8, 206.8, 0.0);
(439170.2, 3763092.5, 220.1, 220.1, 0.0); (439220.2, 3763092.5, 220.7, 220.7, 0.0);
(439270.2, 3763092.5, 220.6, 220.6, 0.0); (439320.2, 3763092.5, 220.9, 220.9, 0.0);
(439370.2, 3763092.5, 221.0, 221.0, 0.0); (439420.2, 3763092.5, 220.7, 220.7, 0.0);
(439470.2, 3763092.5, 220.4, 220.4, 0.0); (439520.2, 3763092.5, 220.4, 220.4, 0.0);
(439570.2, 3763092.5, 220.4, 220.4, 0.0); (439620.2, 3763092.5, 220.9, 220.9, 0.0);
(439670.2, 3763092.5, 221.6, 221.6, 0.0); (439720.2, 3763092.5, 221.9, 221.9, 0.0);
(439770.2, 3763092.5, 222.1, 222.1, 0.0); (439820.2, 3763092.5, 222.3, 222.3, 0.0);
(439870.2, 3763092.5, 222.6, 222.6, 0.0); (439170.2, 3763142.5, 220.8, 220.8, 0.0);
(439220.2, 3763142.5, 221.2, 221.2, 0.0); (439270.2, 3763142.5, 221.0, 221.0, 0.0);
(439320.2, 3763142.5, 221.3, 221.3, 0.0); (439370.2, 3763142.5, 221.3, 221.3, 0.0);
(439420.2, 3763142.5, 221.0, 221.0, 0.0); (439470.2, 3763142.5, 221.3, 221.3, 0.0);
(439520.2, 3763142.5, 221.5, 221.5, 0.0); (439570.2, 3763142.5, 221.2, 221.2, 0.0);
(439620.2, 3763142.5, 221.3, 221.3, 0.0); (439670.2, 3763142.5, 222.0, 222.0, 0.0);
(439720.2, 3763142.5, 222.3, 222.3, 0.0); (439770.2, 3763142.5, 222.6, 222.6, 0.0);
(439820.2, 3763142.5, 222.9, 222.9, 0.0); (439870.2, 3763142.5, 223.2, 223.2, 0.0);
(439170.2, 3763192.5, 221.4, 221.4, 0.0); (439220.2, 3763192.5, 221.6, 221.6, 0.0);

```
     ( 439270.2, 3763192.5,     221.3,     221.3,       0.0);         ( 439320.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439370.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439420.2,
3763192.5,     221.3,     221.3,       0.0);
     ( 439470.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439520.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439570.2, 3763192.5,     221.8,     221.8,       0.0);         ( 439620.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439670.2, 3763192.5,     222.5,     222.5,       0.0);         ( 439720.2,
3763192.5,     223.2,     223.2,       0.0);
     ( 439770.2, 3763192.5,     223.5,     223.5,       0.0);         ( 439820.2,
3763192.5,     223.7,     223.7,       0.0);
     ( 439870.2, 3763192.5,     223.9,     223.9,       0.0);         ( 439170.2,
3763242.5,     222.1,     222.1,       0.0);
     ( 439220.2, 3763242.5,     222.1,     222.1,       0.0);         ( 439270.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439320.2, 3763242.5,     222.0,     222.0,       0.0);         ( 439370.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439420.2, 3763242.5,     221.9,     221.9,       0.0);         ( 439470.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439520.2, 3763242.5,     222.3,     222.3,       0.0);         ( 439570.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439620.2, 3763242.5,     222.2,     222.2,       0.0);         ( 439670.2,
3763242.5,     222.8,     222.8,       0.0);
     ( 439720.2, 3763242.5,     223.5,     223.5,       0.0);         ( 439770.2,
3763242.5,     224.0,     224.0,       0.0);
     ( 439820.2, 3763242.5,     224.3,     224.3,       0.0);         ( 439870.2,
3763242.5,     224.5,     224.5,       0.0);
     ( 439170.2, 3763292.5,     222.9,     222.9,       0.0);         ( 439220.2,
3763292.5,     223.4,     223.4,       0.0);
     ( 439270.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439320.2,
3763292.5,     223.0,     223.0,       0.0);
     ( 439370.2, 3763292.5,     222.5,     222.5,       0.0);         ( 439420.2,
3763292.5,     222.9,     222.9,       0.0);
     ( 439470.2, 3763292.5,     223.2,     223.2,       0.0);         ( 439520.2,
3763292.5,     223.5,     223.5,       0.0);
     ( 439570.2, 3763292.5,     223.0,     223.0,       0.0);         ( 439620.2,
3763292.5,     223.1,     223.1,       0.0);
     ( 439670.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439720.2,
3763292.5,     224.0,     224.0,       0.0);
     ( 439770.2, 3763292.5,     224.8,     224.8,       0.0);         ( 439820.2,
3763292.5,     225.1,     225.1,       0.0);
     ( 439870.2, 3763292.5,     225.1,     225.1,       0.0);         ( 439170.2,
3763342.5,     223.6,     223.6,       0.0);
     ( 439220.2, 3763342.5,     224.0,     224.0,       0.0);         ( 439270.2,
3763342.5,     223.5,     223.5,       0.0);
     ( 439320.2, 3763342.5,     223.4,     223.4,       0.0);         ( 439370.2,
3763342.5,     223.0,     223.0,       0.0);
     ( 439420.2, 3763342.5,     223.3,     223.3,       0.0);         ( 439470.2,
3763342.5,     223.6,     223.6,       0.0);
     ( 439520.2, 3763342.5,     223.9,     223.9,       0.0);         ( 439570.2,
```

3763342.5, 223.7, 223.7, 0.0);
(439620.2, 3763342.5, 223.5, 223.5, 0.0); (439670.2, 3763342.5, 223.9, 223.9, 0.0);
(439720.2, 3763342.5, 224.4, 224.4, 0.0); (439770.2, 3763342.5, 225.3, 225.3, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439820.2, 3763342.5, 225.6, 225.6, 0.0); (439870.2, 3763342.5, 225.8, 225.8, 0.0);
(439170.2, 3763392.5, 224.3, 224.3, 0.0); (439220.2, 3763392.5, 224.5, 224.5, 0.0);
(439270.2, 3763392.5, 223.9, 223.9, 0.0); (439320.2, 3763392.5, 224.3, 224.3, 0.0);
(439370.2, 3763392.5, 224.0, 224.0, 0.0); (439420.2, 3763392.5, 224.4, 224.4, 0.0);
(439470.2, 3763392.5, 224.7, 224.7, 0.0); (439520.2, 3763392.5, 224.3, 224.3, 0.0);
(439570.2, 3763392.5, 224.2, 224.2, 0.0); (439620.2, 3763392.5, 224.0, 224.0, 0.0);
(439670.2, 3763392.5, 224.5, 224.5, 0.0); (439720.2, 3763392.5, 224.8, 224.8, 0.0);
(439770.2, 3763392.5, 225.6, 225.6, 0.0); (439820.2, 3763392.5, 226.0, 226.0, 0.0);
(439870.2, 3763392.5, 226.3, 226.3, 0.0); (439170.2, 3763442.5, 225.0, 225.0, 0.0);
(439220.2, 3763442.5, 225.1, 225.1, 0.0); (439270.2, 3763442.5, 224.5, 224.5, 0.0);
(439320.2, 3763442.5, 224.5, 224.5, 0.0); (439370.2, 3763442.5, 224.6, 224.6, 0.0);
(439420.2, 3763442.5, 224.7, 224.7, 0.0); (439470.2, 3763442.5, 225.0, 225.0, 0.0);
(439520.2, 3763442.5, 224.7, 224.7, 0.0); (439570.2, 3763442.5, 224.7, 224.7, 0.0);
(439620.2, 3763442.5, 224.6, 224.6, 0.0); (439670.2, 3763442.5, 225.0, 225.0, 0.0);
(439720.2, 3763442.5, 225.4, 225.4, 0.0); (439770.2, 3763442.5, 226.1, 226.1, 0.0);
(439820.2, 3763442.5, 226.5, 226.5, 0.0); (439870.2, 3763442.5, 226.7, 226.7, 0.0);
(439203.2, 3762911.2, 218.2, 218.2, 0.0); (439253.2, 3762911.2, 218.6, 218.6, 0.0);

```
     ( 439303.2, 3762911.2,     218.7,     218.7,       0.0);         ( 439353.2,
3762911.2,     217.9,     217.9,       0.0);
     ( 439403.2, 3762911.2,     218.0,     218.0,       0.0);         ( 439453.2,
3762911.2,     218.3,     218.3,       0.0);
     ( 439503.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439553.2,
3762911.2,     218.5,     218.5,       0.0);
     ( 439203.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439253.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439303.2, 3762961.2,     219.2,     219.2,       0.0);         ( 439353.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439403.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439453.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439503.2, 3762961.2,     218.7,     218.7,       0.0);         ( 439553.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439203.2, 3763011.2,     219.6,     219.6,       0.0);         ( 439253.2,
3763011.2,     219.7,     219.7,       0.0);
     ( 439303.2, 3763011.2,     219.9,     219.9,       0.0);         ( 439353.2,
3763011.2,     220.0,     220.0,       0.0);
     ( 439403.2, 3763011.2,     219.2,     219.2,       0.0);         ( 439453.2,
3763011.2,     219.4,     219.4,       0.0);
     ( 439503.2, 3763011.2,     219.1,     219.1,       0.0);         ( 439553.2,
3763011.2,     219.5,     219.5,       0.0);
     ( 439203.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439253.2,
3763061.2,     220.5,     220.5,       0.0);
     ( 439303.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439353.2,
3763061.2,     220.8,     220.8,       0.0);
     ( 439403.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439453.2,
3763061.2,     220.4,     220.4,       0.0);
     ( 439503.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439553.2,
3763061.2,     220.3,     220.3,       0.0);
     ( 439196.0, 3762392.5,     212.6,     212.6,       0.0);         ( 439246.0,
3762392.5,     212.7,     212.7,       0.0);
     ( 439296.0, 3762392.5,     212.7,     212.7,       0.0);         ( 439346.0,
3762392.5,     212.6,     212.6,       0.0);
     ( 439396.0, 3762392.5,     212.5,     212.5,       0.0);         ( 439446.0,
3762392.5,     212.2,     212.2,       0.0);
     ( 439496.0, 3762392.5,     212.2,     212.2,       0.0);         ( 439546.0,
3762392.5,     212.5,     212.5,       0.0);
     ( 439196.0, 3762442.5,     213.1,     213.1,       0.0);         ( 439246.0,
3762442.5,     213.1,     213.1,       0.0);
     ( 439296.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439346.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439396.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439446.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439496.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439546.0,
3762442.5,     213.4,     213.4,       0.0);
     ( 439196.0, 3762492.5,     213.6,     213.6,       0.0);         ( 439246.0,
3762492.5,     213.5,     213.5,       0.0);
     ( 439296.0, 3762492.5,     213.7,     213.7,       0.0);         ( 439346.0,
3762492.5,     214.0,     214.0,       0.0);
     ( 439396.0, 3762492.5,     213.9,     213.9,       0.0);         ( 439446.0,
```

3762492.5,   213.9,   213.9,   0.0);
     (439496.0, 3762492.5,   214.2,   214.2,   0.0);   (439546.0,
3762492.5,   214.4,   214.4,   0.0);
     (439196.0, 3762542.5,   214.1,   214.1,   0.0);   (439246.0,
3762542.5,   213.8,   213.8,   0.0);

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (439296.0, 3762542.5,   214.0,   214.0,   0.0);   (439346.0,
3762542.5,   214.0,   214.0,   0.0);
     (439396.0, 3762542.5,   214.2,   214.2,   0.0);   (439446.0,
3762542.5,   214.2,   214.2,   0.0);
     (439496.0, 3762542.5,   214.7,   214.7,   0.0);   (439546.0,
3762542.5,   214.7,   214.7,   0.0);
     (439196.0, 3762592.5,   214.6,   214.6,   0.0);   (439246.0,
3762592.5,   214.8,   214.8,   0.0);
     (439296.0, 3762592.5,   214.7,   214.7,   0.0);   (439346.0,
3762592.5,   214.4,   214.4,   0.0);
     (439396.0, 3762592.5,   214.4,   214.4,   0.0);   (439446.0,
3762592.5,   214.5,   214.5,   0.0);
     (439496.0, 3762592.5,   215.1,   215.1,   0.0);   (439546.0,
3762592.5,   215.2,   215.2,   0.0);
     (439196.0, 3762642.5,   215.1,   215.1,   0.0);   (439246.0,
3762642.5,   215.4,   215.4,   0.0);
     (439296.0, 3762642.5,   214.9,   214.9,   0.0);   (439346.0,
3762642.5,   214.4,   214.4,   0.0);
     (439396.0, 3762642.5,   214.6,   214.6,   0.0);   (439446.0,
3762642.5,   214.8,   214.8,   0.0);
     (439496.0, 3762642.5,   215.5,   215.5,   0.0);   (439546.0,
3762642.5,   215.6,   215.6,   0.0);
     (439196.0, 3762692.5,   215.8,   215.8,   0.0);   (439246.0,
3762692.5,   215.8,   215.8,   0.0);
     (439296.0, 3762692.5,   215.9,   215.9,   0.0);   (439346.0,
3762692.5,   215.7,   215.7,   0.0);
     (439396.0, 3762692.5,   215.1,   215.1,   0.0);   (439446.0,
3762692.5,   215.3,   215.3,   0.0);
     (439496.0, 3762692.5,   215.9,   215.9,   0.0);   (439546.0,
3762692.5,   216.1,   216.1,   0.0);
     (439196.0, 3762742.5,   216.5,   216.5,   0.0);   (439246.0,
3762742.5,   216.1,   216.1,   0.0);
     (439296.0, 3762742.5,   216.3,   216.3,   0.0);   (439346.0,
3762742.5,   216.1,   216.1,   0.0);

```
     ( 439396.0, 3762742.5,     216.0,     216.0,       0.0);         ( 439446.0,
3762742.5,     216.0,     216.0,       0.0);
     ( 439496.0, 3762742.5,     216.7,     216.7,       0.0);         ( 439546.0,
3762742.5,     216.8,     216.8,       0.0);
     ( 439196.0, 3762792.5,     217.1,     217.1,       0.0);         ( 439246.0,
3762792.5,     216.4,     216.4,       0.0);
     ( 439296.0, 3762792.5,     216.8,     216.8,       0.0);         ( 439346.0,
3762792.5,     216.8,     216.8,       0.0);
     ( 439396.0, 3762792.5,     216.9,     216.9,       0.0);         ( 439446.0,
3762792.5,     216.7,     216.7,       0.0);
     ( 439496.0, 3762792.5,     217.3,     217.3,       0.0);         ( 439546.0,
3762792.5,     217.4,     217.4,       0.0);
     ( 439196.0, 3762842.5,     217.7,     217.7,       0.0);         ( 439246.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439296.0, 3762842.5,     217.0,     217.0,       0.0);         ( 439346.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439396.0, 3762842.5,     217.2,     217.2,       0.0);         ( 439446.0,
3762842.5,     217.3,     217.3,       0.0);
     ( 439496.0, 3762842.5,     217.9,     217.9,       0.0);         ( 439546.0,
3762842.5,     218.0,     218.0,       0.0);
     ( 439573.3, 3762470.5,     213.7,     213.7,       0.0);         ( 439623.3,
3762470.5,     214.1,     214.1,       0.0);
     ( 439673.3, 3762470.5,     214.2,     214.2,       0.0);         ( 439723.3,
3762470.5,     214.3,     214.3,       0.0);
     ( 439773.3, 3762470.5,     214.4,     214.4,       0.0);         ( 439823.3,
3762470.5,     214.4,     214.4,       0.0);
     ( 439873.3, 3762470.5,     214.7,     214.7,       0.0);         ( 439573.3,
3762520.5,     214.3,     214.3,       0.0);
     ( 439623.3, 3762520.5,     214.5,     214.5,       0.0);         ( 439673.3,
3762520.5,     214.8,     214.8,       0.0);
     ( 439723.3, 3762520.5,     215.1,     215.1,       0.0);         ( 439773.3,
3762520.5,     215.1,     215.1,       0.0);
     ( 439823.3, 3762520.5,     214.8,     214.8,       0.0);         ( 439873.3,
3762520.5,     215.2,     215.2,       0.0);
     ( 439573.3, 3762570.5,     214.8,     214.8,       0.0);         ( 439623.3,
3762570.5,     215.0,     215.0,       0.0);
     ( 439673.3, 3762570.5,     215.4,     215.4,       0.0);         ( 439723.3,
3762570.5,     215.5,     215.5,       0.0);
     ( 439773.3, 3762570.5,     215.5,     215.5,       0.0);         ( 439823.3,
3762570.5,     215.3,     215.3,       0.0);
     ( 439873.3, 3762570.5,     215.9,     215.9,       0.0);         ( 439573.3,
3762620.5,     215.3,     215.3,       0.0);
     ( 439623.3, 3762620.5,     215.6,     215.6,       0.0);         ( 439673.3,
3762620.5,     215.7,     215.7,       0.0);
     ( 439723.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439773.3,
3762620.5,     215.8,     215.8,       0.0);
     ( 439823.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439873.3,
3762620.5,     216.5,     216.5,       0.0);
     ( 439573.3, 3762670.5,     215.8,     215.8,       0.0);         ( 439623.3,
3762670.5,     216.5,     216.5,       0.0);
     ( 439673.3, 3762670.5,     216.5,     216.5,       0.0);         ( 439723.3,
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

     (439202.3, 3761448.9,   202.5,   202.5,   0.0);   (439252.3,
3761448.9,   202.5,   202.5,   0.0);
     (439302.3, 3761448.9,   202.4,   202.4,   0.0);   (439352.3,
3761448.9,   202.5,   202.5,   0.0);
     (439402.3, 3761448.9,   202.6,   202.6,   0.0);   (439452.3,
3761448.9,   202.6,   202.6,   0.0);
     (439502.3, 3761448.9,   203.1,   203.1,   0.0);   (439552.3,
3761448.9,   203.1,   203.1,   0.0);
     (439152.3, 3761498.9,   204.0,   204.0,   0.0);   (439202.3,
3761498.9,   203.9,   203.9,   0.0);
     (439252.3, 3761498.9,   204.3,   204.3,   0.0);   (439302.3,
3761498.9,   203.6,   203.6,   0.0);
     (439352.3, 3761498.9,   203.2,   203.2,   0.0);   (439402.3,
3761498.9,   202.9,   202.9,   0.0);
     (439452.3, 3761498.9,   202.7,   202.7,   0.0);   (439502.3,
3761498.9,   203.3,   203.3,   0.0);
     (439552.3, 3761498.9,   203.5,   203.5,   0.0);   (439152.3,
3761548.9,   204.7,   204.7,   0.0);
     (439202.3, 3761548.9,   204.3,   204.3,   0.0);   (439252.3,
3761548.9,   204.4,   204.4,   0.0);
     (439302.3, 3761548.9,   203.7,   203.7,   0.0);   (439352.3,
3761548.9,   203.0,   203.0,   0.0);
     (439402.3, 3761548.9,   203.1,   203.1,   0.0);   (439452.3,
3761548.9,   203.0,   203.0,   0.0);
     (439502.3, 3761548.9,   203.2,   203.2,   0.0);   (439552.3,
3761548.9,   203.6,   203.6,   0.0);
     (439152.3, 3761598.9,   205.2,   205.2,   0.0);   (439202.3,
3761598.9,   204.5,   204.5,   0.0);
     (439252.3, 3761598.9,   204.5,   204.5,   0.0);   (439302.3,
3761598.9,   204.2,   204.2,   0.0);
     (439352.3, 3761598.9,   203.5,   203.5,   0.0);   (439402.3,
3761598.9,   203.6,   203.6,   0.0);
     (439452.3, 3761598.9,   203.8,   203.8,   0.0);   (439502.3,
3761598.9,   203.6,   203.6,   0.0);

```
     ( 439552.3, 3761598.9,     204.0,     204.0,       0.0);         ( 439152.3,
3761648.9,     205.5,     205.5,       0.0);
     ( 439202.3, 3761648.9,     205.1,     205.1,       0.0);         ( 439252.3,
3761648.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761648.9,     204.9,     204.9,       0.0);         ( 439352.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439402.3, 3761648.9,     204.5,     204.5,       0.0);         ( 439452.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439502.3, 3761648.9,     204.7,     204.7,       0.0);         ( 439552.3,
3761648.9,     204.9,     204.9,       0.0);
     ( 439152.3, 3761698.9,     206.0,     206.0,       0.0);         ( 439202.3,
3761698.9,     205.4,     205.4,       0.0);
     ( 439252.3, 3761698.9,     204.9,     204.9,       0.0);         ( 439302.3,
3761698.9,     205.0,     205.0,       0.0);
     ( 439352.3, 3761698.9,     205.2,     205.2,       0.0);         ( 439402.3,
3761698.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761698.9,     204.8,     204.8,       0.0);         ( 439502.3,
3761698.9,     205.3,     205.3,       0.0);
     ( 439552.3, 3761698.9,     205.7,     205.7,       0.0);         ( 439152.3,
3761748.9,     206.1,     206.1,       0.0);
     ( 439202.3, 3761748.9,     205.8,     205.8,       0.0);         ( 439252.3,
3761748.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761748.9,     205.2,     205.2,       0.0);         ( 439352.3,
3761748.9,     205.2,     205.2,       0.0);
     ( 439402.3, 3761748.9,     205.4,     205.4,       0.0);         ( 439452.3,
3761748.9,     205.1,     205.1,       0.0);
     ( 439502.3, 3761748.9,     204.8,     204.8,       0.0);         ( 439552.3,
3761748.9,     205.5,     205.5,       0.0);
     ( 439152.3, 3761798.9,     206.4,     206.4,       0.0);         ( 439202.3,
3761798.9,     206.4,     206.4,       0.0);
     ( 439252.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439302.3,
3761798.9,     206.2,     206.2,       0.0);
     ( 439352.3, 3761798.9,     205.6,     205.6,       0.0);         ( 439402.3,
3761798.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439502.3,
3761798.9,     205.2,     205.2,       0.0);
     ( 439552.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439152.3,
3761848.9,     206.9,     206.9,       0.0);
     ( 439202.3, 3761848.9,     206.7,     206.7,       0.0);         ( 439252.3,
3761848.9,     206.1,     206.1,       0.0);
     ( 439302.3, 3761848.9,     206.2,     206.2,       0.0);         ( 439352.3,
3761848.9,     205.6,     205.6,       0.0);
     ( 439402.3, 3761848.9,     206.3,     206.3,       0.0);         ( 439452.3,
3761848.9,     206.3,     206.3,       0.0);
     ( 439502.3, 3761848.9,     205.5,     205.5,       0.0);         ( 439552.3,
3761848.9,     206.3,     206.3,       0.0);
     ( 439152.3, 3761898.9,     207.6,     207.6,       0.0);         ( 439202.3,
3761898.9,     207.2,     207.2,       0.0);
     ( 439252.3, 3761898.9,     206.5,     206.5,       0.0);         ( 439302.3,
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(439552.3, 3761898.9, 207.6, 207.6, 0.0); (439152.3, 3761948.9, 208.1, 208.1, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439202.3, 3761948.9, 207.6, 207.6, 0.0); (439252.3, 3761948.9, 206.9, 206.9, 0.0);
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(439402.3, 3761948.9, 207.3, 207.3, 0.0); (439452.3, 3761948.9, 208.1, 208.1, 0.0);
(439502.3, 3761948.9, 208.5, 208.5, 0.0); (439552.3, 3761948.9, 208.8, 208.8, 0.0);
(439152.3, 3761998.9, 208.6, 208.6, 0.0); (439202.3, 3761998.9, 207.9, 207.9, 0.0);
(439252.3, 3761998.9, 207.2, 207.2, 0.0); (439302.3, 3761998.9, 208.0, 208.0, 0.0);
(439352.3, 3761998.9, 208.5, 208.5, 0.0); (439402.3, 3761998.9, 208.0, 208.0, 0.0);
(439452.3, 3761998.9, 208.2, 208.2, 0.0); (439502.3, 3761998.9, 208.5, 208.5, 0.0);
(439552.3, 3761998.9, 208.9, 208.9, 0.0); (439152.3, 3762048.9, 209.2, 209.2, 0.0);
(439202.3, 3762048.9, 209.1, 209.1, 0.0); (439252.3, 3762048.9, 209.0, 209.0, 0.0);
(439302.3, 3762048.9, 209.0, 209.0, 0.0); (439352.3, 3762048.9, 209.0, 209.0, 0.0);
(439402.3, 3762048.9, 208.7, 208.7, 0.0); (439452.3, 3762048.9, 209.0, 209.0, 0.0);
(439502.3, 3762048.9, 209.2, 209.2, 0.0); (439552.3, 3762048.9, 209.4, 209.4, 0.0);
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(439716.6, 3761420.6, 203.4, 203.4, 0.0); (439766.6, 3761420.6, 203.6, 203.6, 0.0);
(439816.6, 3761420.6, 203.5, 203.5, 0.0); (439866.6, 3761420.6, 203.8, 203.8, 0.0);
(439616.6, 3761470.6, 203.2, 203.2, 0.0); (439666.6, 3761470.6, 203.4, 203.4, 0.0);

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3761470.6,     203.8,     203.8,       0.0);
     ( 439816.6, 3761470.6,     203.7,     203.7,       0.0);         ( 439866.6,
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     ( 439616.6, 3761520.6,     203.5,     203.5,       0.0);         ( 439666.6,
3761520.6,     203.7,     203.7,       0.0);
     ( 439716.6, 3761520.6,     204.0,     204.0,       0.0);         ( 439766.6,
3761520.6,     204.4,     204.4,       0.0);
     ( 439816.6, 3761520.6,     204.5,     204.5,       0.0);         ( 439866.6,
3761520.6,     204.9,     204.9,       0.0);
     ( 439616.6, 3761570.6,     204.1,     204.1,       0.0);         ( 439666.6,
3761570.6,     204.4,     204.4,       0.0);
     ( 439716.6, 3761570.6,     204.7,     204.7,       0.0);         ( 439766.6,
3761570.6,     205.2,     205.2,       0.0);
     ( 439816.6, 3761570.6,     205.4,     205.4,       0.0);         ( 439866.6,
3761570.6,     205.5,     205.5,       0.0);
     ( 440451.1, 3762893.8,     220.7,     220.7,       0.0);         ( 440501.1,
3762893.8,     220.6,     220.6,       0.0);
     ( 440551.1, 3762893.8,     220.3,     220.3,       0.0);         ( 440601.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440651.1, 3762893.8,     220.5,     220.5,       0.0);         ( 440701.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440751.1, 3762893.8,     220.2,     220.2,       0.0);         ( 440801.1,
3762893.8,     220.2,     220.2,       0.0);
     ( 440851.1, 3762893.8,     219.8,     219.8,       0.0);         ( 440451.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 440501.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440551.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440601.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440651.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440701.1, 3762943.8,     221.0,     221.0,       0.0);         ( 440751.1,
3762943.8,     220.5,     220.5,       0.0);
     ( 440801.1, 3762943.8,     220.8,     220.8,       0.0);         ( 440851.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 441116.7, 3763135.3,     223.3,     223.3,       0.0);         ( 441166.7,
3763135.3,     222.9,     222.9,       0.0);
     ( 441116.7, 3763185.3,     223.9,     223.9,       0.0);         ( 441166.7,
3763185.3,     223.5,     223.5,       0.0);
     ( 441116.7, 3763235.3,     224.2,     224.2,       0.0);         ( 441166.7,
3763235.3,     223.9,     223.9,       0.0);
     ( 441116.7, 3763285.3,     225.2,     225.2,       0.0);         ( 441166.7,
3763285.3,     224.6,     224.6,       0.0);
     ( 441116.7, 3763335.3,     225.8,     225.8,       0.0);         ( 441166.7,
3763335.3,     225.4,     225.4,       0.0);
     ( 441116.7, 3763385.3,     226.3,     226.3,       0.0);         ( 441166.7,
3763385.3,     226.3,     226.3,       0.0);
     ( 441116.7, 3763435.3,     227.0,     227.0,       0.0);         ( 441166.7,
3763435.3,     226.8,     226.8,       0.0);
     ( 440433.4, 3762815.1,     219.6,     219.6,       0.0);         ( 440483.4,
3762815.1,     219.4,     219.4,       0.0);
     ( 440533.4, 3762815.1,     219.2,     219.2,       0.0);         ( 440583.4,
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

     (440833.4, 3762815.1,   219.4,   219.4,   0.0);   (440883.4,
3762815.1,   219.5,   219.5,   0.0);
     (440933.4, 3762815.1,   219.0,   219.0,   0.0);   (440983.4,
3762815.1,   218.8,   218.8,   0.0);
     (440433.4, 3762865.1,   220.3,   220.3,   0.0);   (440483.4,
3762865.1,   220.1,   220.1,   0.0);
     (440533.4, 3762865.1,   219.9,   219.9,   0.0);   (440583.4,
3762865.1,   219.9,   219.9,   0.0);
     (440633.4, 3762865.1,   220.0,   220.0,   0.0);   (440683.4,
3762865.1,   219.9,   219.9,   0.0);
     (440733.4, 3762865.1,   220.0,   220.0,   0.0);   (440783.4,
3762865.1,   219.9,   219.9,   0.0);
     (440833.4, 3762865.1,   219.6,   219.6,   0.0);   (440883.4,
3762865.1,   219.3,   219.3,   0.0);
     (440933.4, 3762865.1,   219.0,   219.0,   0.0);   (440983.4,
3762865.1,   218.9,   218.9,   0.0);
     (441118.3, 3762686.0,   217.2,   217.2,   0.0);   (441168.3,
3762686.0,   217.0,   217.0,   0.0);
     (441118.3, 3762736.0,   218.2,   218.2,   0.0);   (441168.3,
3762736.0,   217.5,   217.5,   0.0);
     (441118.3, 3762786.0,   218.3,   218.3,   0.0);   (441168.3,
3762786.0,   218.0,   218.0,   0.0);
     (441118.3, 3762836.0,   218.4,   218.4,   0.0);   (441168.3,
3762836.0,   218.3,   218.3,   0.0);
     (440411.7, 3762093.4,   211.8,   211.8,   0.0);   (440461.7,
3762093.4,   211.7,   211.7,   0.0);
     (440511.7, 3762093.4,   211.8,   211.8,   0.0);   (440561.7,
3762093.4,   211.8,   211.8,   0.0);
     (440611.7, 3762093.4,   211.6,   211.6,   0.0);   (440411.7,
3762143.4,   212.7,   212.7,   0.0);
     (440461.7, 3762143.4,   212.3,   212.3,   0.0);   (440511.7,
3762143.4,   212.5,   212.5,   0.0);
     (440561.7, 3762143.4,   212.2,   212.2,   0.0);   (440611.7,
3762143.4,   212.4,   212.4,   0.0);

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     ( 440406.6, 3762008.9,     210.5,     210.5,       0.0);         ( 440456.6,
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     ( 440506.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440556.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440606.6, 3762008.9,     210.7,     210.7,       0.0);         ( 440656.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440706.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440756.6,
3762008.9,     211.0,     211.0,       0.0);
     ( 440806.6, 3762008.9,     210.4,     210.4,       0.0);         ( 440856.6,
3762008.9,     210.6,     210.6,       0.0);
     ( 440906.6, 3762008.9,     211.3,     211.3,       0.0);         ( 440956.6,
3762008.9,     211.2,     211.2,       0.0);
     ( 441006.6, 3762008.9,     211.1,     211.1,       0.0);         ( 441056.6,
3762008.9,     210.5,     210.5,       0.0);
     ( 441106.6, 3762008.9,     210.4,     210.4,       0.0);         ( 441156.6,
3762008.9,     210.4,     210.4,       0.0);
     ( 440406.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440456.6,
3762058.9,     211.2,     211.2,       0.0);
     ( 440506.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440556.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 440606.6, 3762058.9,     211.2,     211.2,       0.0);         ( 440656.6,
3762058.9,     211.4,     211.4,       0.0);
     ( 440706.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440756.6,
3762058.9,     212.0,     212.0,       0.0);
     ( 440806.6, 3762058.9,     211.4,     211.4,       0.0);         ( 440856.6,
3762058.9,     211.5,     211.5,       0.0);
     ( 440906.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440956.6,
3762058.9,     211.7,     211.7,       0.0);
     ( 441006.6, 3762058.9,     211.5,     211.5,       0.0);         ( 441056.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 441106.6, 3762058.9,     211.1,     211.1,       0.0);         ( 441156.6,
3762058.9,     211.1,     211.1,       0.0);
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                           ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       17:25:05

                                  PAGE  1138
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                  *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                    (1=YES; 0=NO)

            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
            1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***
(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0

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 12 01 01   1 02   -2.7  0.070 -9.000 -9.000 -999.   44.     11.3  0.09   0.74
1.00    0.80  342.    7.9  280.9    2.0
 12 01 01   1 03   -5.6  0.098 -9.000 -9.000 -999.   73.     14.7  0.09   0.74
1.00    1.20    9.    7.9  281.4    2.0
 12 01 01   1 04   -3.5  0.078 -9.000 -9.000 -999.   52.     11.9  0.09   0.74
1.00    0.94   21.    7.9  282.0    2.0
 12 01 01   1 05   -8.4  0.119 -9.000 -9.000 -999.   99.     18.1  0.09   0.74
1.00    1.45  353.    7.9  279.9    2.0
 12 01 01   1 06   -7.6  0.113 -9.000 -9.000 -999.   91.     17.0  0.09   0.74
1.00    1.38  325.    7.9  277.5    2.0
 12 01 01   1 07   -8.0  0.117 -9.000 -9.000 -999.   96.     17.7  0.09   0.74
1.00    1.42  313.    7.9  281.4    2.0
 12 01 01   1 08   -5.2  0.101 -9.000 -9.000 -999.   77.     17.5  0.09   0.74
0.53    1.23   19.    7.9  280.9    2.0
 12 01 01   1 09   23.2  0.117  0.267  0.012   29.   97.     -6.2  0.09   0.74
0.31    0.96  318.    7.9  287.5    2.0
 12 01 01   1 10   65.2  0.101  0.531  0.014   82.   77.     -1.4  0.09   0.74
0.24    0.63  244.    7.9  291.4    2.0
 12 01 01   1 11   95.5  0.162  0.778  0.008  176.  156.     -4.0  0.09   0.74
0.21    1.23   91.    7.9  296.4    2.0
 12 01 01   1 12  110.8  0.197  1.018  0.005  338.  209.     -6.1  0.09   0.74
0.20    1.60   90.    7.9  299.9    2.0
 12 01 01   1 13  110.5  0.229  1.184  0.005  534.  262.     -9.6  0.09   0.74
0.20    1.98   92.    7.9  302.0    2.0
 12 01 01   1 14   94.6  0.185  1.215  0.005  674.  191.     -5.9  0.09   0.74
0.21    1.50   73.    7.9  303.1    2.0
 12 01 01   1 15   68.6  0.187  1.184  0.005  858.  194.     -8.4  0.09   0.74
0.25    1.59   64.    7.9  303.1    2.0
 12 01 01   1 16   24.9  0.255  0.862  0.005  911.  308.    -58.8  0.09   0.74
0.34    2.61   92.    7.9  300.4    2.0
 12 01 01   1 17  -13.7  0.168 -9.000 -9.000 -999.  168.     31.1  0.09   0.74
0.62    1.98  107.    7.9  295.4    2.0
 12 01 01   1 18  -26.7  0.279 -9.000 -9.000 -999.  354.     85.6  0.09   0.74
1.00    3.22  134.    7.9  291.4    2.0
 12 01 01   1 19   -8.0  0.118 -9.000 -9.000 -999.  120.     18.2  0.09   0.74
1.00    1.43   37.    7.9  290.4    2.0
 12 01 01   1 20   -7.7  0.115 -9.000 -9.000 -999.   94.     17.6  0.09   0.74
1.00    1.40   49.    7.9  287.0    2.0
 12 01 01   1 21   -9.7  0.130 -9.000 -9.000 -999.  113.     20.2  0.09   0.74
1.00    1.57   26.    7.9  288.8    2.0
 12 01 01   1 22   -4.8  0.090 -9.000 -9.000 -999.   65.     13.6  0.09   0.74
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONSITE ***
INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 ,
L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 ,
L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 ,
L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.04787	439943.36	3761716.33	0.07660
439170.17	3763092.51	0.04232	439220.17	3763092.51	0.04496
439270.17	3763092.51	0.04816	439320.17	3763092.51	0.05154
439370.17	3763092.51	0.05544	439420.17	3763092.51	0.05998
439470.17	3763092.51	0.06521	439520.17	3763092.51	0.07085
439570.17	3763092.51	0.07716	439620.17	3763092.51	0.08392
439670.17	3763092.51	0.09132	439720.17	3763092.51	0.09999
439770.17	3763092.51	0.10997	439820.17	3763092.51	0.12095
439870.17	3763092.51	0.13280	439170.17	3763142.51	0.04024
439220.17	3763142.51	0.04262	439270.17	3763142.51	0.04550

```
         439320.17    3763142.51        0.04841                    439370.17
3763142.51        0.05180
         439420.17    3763142.51        0.05571                    439470.17
3763142.51        0.05967
         439520.17    3763142.51        0.06410                    439570.17
3763142.51        0.06932
         439620.17    3763142.51        0.07481                    439670.17
3763142.51        0.08032
         439720.17    3763142.51        0.08659                    439770.17
3763142.51        0.09348
         439820.17    3763142.51        0.10080                    439870.17
3763142.51        0.10844
         439170.17    3763192.51        0.03824                    439220.17
3763192.51        0.04041
         439270.17    3763192.51        0.04297                    439320.17
3763192.51        0.04541
         439370.17    3763192.51        0.04835                    439420.17
3763192.51        0.05167
         439470.17    3763192.51        0.05488                    439520.17
3763192.51        0.05849
         439570.17    3763192.51        0.06248                    439620.17
3763192.51        0.06685
         439670.17    3763192.51        0.07081                    439720.17
3763192.51        0.07490
         439770.17    3763192.51        0.07956                    439820.17
3763192.51        0.08475
         439870.17    3763192.51        0.09014                    439170.17
3763242.51        0.03628
         439220.17    3763242.51        0.03825                    439270.17
3763242.51        0.04047
         439320.17    3763242.51        0.04271                    439370.17
3763242.51        0.04518
         439420.17    3763242.51        0.04781                    439470.17
3763242.51        0.05041
         439520.17    3763242.51        0.05334                    439570.17
3763242.51        0.05651
         439620.17    3763242.51        0.05989                    439670.17
3763242.51        0.06299
         439720.17    3763242.51        0.06588                    439770.17
3763242.51        0.06898
         439820.17    3763242.51        0.07225                    439870.17
3763242.51        0.07575
         439170.17    3763292.51        0.03433                    439220.17
3763292.51        0.03579
         439270.17    3763292.51        0.03765                    439320.17
3763292.51        0.03975
         439370.17    3763292.51        0.04204                    439420.17
3763292.51        0.04399
         439470.17    3763292.51        0.04606                    439520.17
3763292.51        0.04827
         439570.17    3763292.51        0.05107                    439620.17
```

3763292.51 0.05351
439670.17 3763292.51 0.05602 439720.17 3763292.51 0.05809
439770.17 3763292.51 0.05963 439820.17 3763292.51 0.06205
439870.17 3763292.51 0.06472 439170.17 3763342.51 0.03244
439220.17 3763342.51 0.03374 439270.17 3763342.51 0.03558
*** AERMOD - VERSION 21112 *** *** Ontario Euclid CSTN
*** 03/30/23
*** AERMET - VERSION 16216 *** ***
*** 17:25:05

PAGE 1141
*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONSITE ***
INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 ,
L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 ,
L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 ,
L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.03727	439370.17	3763342.51	0.03919
439420.17	3763342.51	0.04082	439470.17	3763342.51	0.04245
439520.17	3763342.51	0.04416	439570.17	3763342.51	0.04623
439620.17	3763342.51	0.04837	439670.17	3763342.51	0.05013
439720.17	3763342.51	0.05164	439770.17	3763342.51	0.05246
439820.17	3763342.51	0.05422	439870.17	3763342.51	0.05623
439170.17	3763392.51	0.03062	439220.17		

3763392.51 0.03181
439270.17 3763392.51 0.03346 439320.17
3763392.51 0.03469
439370.17 3763392.51 0.03624 439420.17
3763392.51 0.03744
439470.17 3763392.51 0.03871 439520.17
3763392.51 0.04045
439570.17 3763392.51 0.04208 439620.17
3763392.51 0.04377
439670.17 3763392.51 0.04482 439720.17
3763392.51 0.04612
439770.17 3763392.51 0.04689 439820.17
3763392.51 0.04817
439870.17 3763392.51 0.04966 439170.17
3763442.51 0.02888
439220.17 3763442.51 0.02995 439270.17
3763442.51 0.03141
439320.17 3763442.51 0.03256 439370.17
3763442.51 0.03367
439420.17 3763442.51 0.03482 439470.17
3763442.51 0.03581
439520.17 3763442.51 0.03720 439570.17
3763442.51 0.03834
439620.17 3763442.51 0.03961 439670.17
3763442.51 0.04049
439720.17 3763442.51 0.04132 439770.17
3763442.51 0.04212
439820.17 3763442.51 0.04315 439870.17
3763442.51 0.04438
439203.20 3762911.16 0.05221 439253.20
3762911.16 0.05656
439303.20 3762911.16 0.06171 439353.20
3762911.16 0.06813
439403.20 3762911.16 0.07521 439453.20
3762911.16 0.08349
439503.20 3762911.16 0.09376 439553.20
3762911.16 0.10590
439203.20 3762961.16 0.05002 439253.20
3762961.16 0.05409
439303.20 3762961.16 0.05865 439353.20
3762961.16 0.06414
439403.20 3762961.16 0.07051 439453.20
3762961.16 0.07777
439503.20 3762961.16 0.08660 439553.20
3762961.16 0.09691
439203.20 3763011.16 0.04771 439253.20
3763011.16 0.05135
439303.20 3763011.16 0.05545 439353.20
3763011.16 0.06015
439403.20 3763011.16 0.06602 439453.20
3763011.16 0.07224

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         439503.20    3763011.16        0.07972                       439553.20
3763011.16        0.08809
         439203.20    3763061.16        0.04549                       439253.20
3763061.16        0.04861
         439303.20    3763061.16        0.05221                       439353.20
3763061.16        0.05626
         439403.20    3763061.16        0.06105                       439453.20
3763061.16        0.06654
         439503.20    3763061.16        0.07281                       439553.20
3763061.16        0.07965
         439196.01    3762392.48        0.05959                       439246.01
3762392.48        0.06561
         439296.01    3762392.48        0.07275                       439346.01
3762392.48        0.08132
         439396.01    3762392.48        0.09176                       439446.01
3762392.48        0.10464
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1142
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONSITE ***
                                  INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                  L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
                  L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                  L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         439496.01    3762392.48        0.12082                       439546.01
3762392.48        0.14155
         439196.01    3762442.48        0.06026                       439246.01
3762442.48        0.06641
         439296.01    3762442.48        0.07372                       439346.01
3762442.48        0.08251
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         439396.01    3762442.48        0.09322                    439446.01
3762442.48        0.10647
         439496.01    3762442.48        0.12311                    439546.01
3762442.48        0.14444
         439196.01    3762492.48        0.06063                    439246.01
3762492.48        0.06684
         439296.01    3762492.48        0.07423                    439346.01
3762492.48        0.08312
         439396.01    3762492.48        0.09397                    439446.01
3762492.48        0.10738
         439496.01    3762492.48        0.12420                    439546.01
3762492.48        0.14575
         439196.01    3762542.48        0.06067                    439246.01
3762542.48        0.06689
         439296.01    3762542.48        0.07428                    439346.01
3762542.48        0.08318
         439396.01    3762542.48        0.09401                    439446.01
3762542.48        0.10740
         439496.01    3762542.48        0.12415                    439546.01
3762542.48        0.14565
         439196.01    3762592.48        0.06038                    439246.01
3762592.48        0.06653
         439296.01    3762592.48        0.07385                    439346.01
3762592.48        0.08265
         439396.01    3762592.48        0.09334                    439446.01
3762592.48        0.10652
         439496.01    3762592.48        0.12298                    439546.01
3762592.48        0.14409
         439196.01    3762642.48        0.05977                    439246.01
3762642.48        0.06578
         439296.01    3762642.48        0.07296                    439346.01
3762642.48        0.08155
         439396.01    3762642.48        0.09196                    439446.01
3762642.48        0.10475
         439496.01    3762642.48        0.12070                    439546.01
3762642.48        0.14110
         439196.01    3762692.48        0.05884                    439246.01
3762692.48        0.06467
         439296.01    3762692.48        0.07156                    439346.01
3762692.48        0.07983
         439396.01    3762692.48        0.08986                    439446.01
3762692.48        0.10210
         439496.01    3762692.48        0.11729                    439546.01
3762692.48        0.13667
         439196.01    3762742.48        0.05759                    439246.01
3762742.48        0.06321
         439296.01    3762742.48        0.06977                    439346.01
3762742.48        0.07762
         439396.01    3762742.48        0.08708                    439446.01
3762742.48        0.09860
         439496.01    3762742.48        0.11277                    439546.01
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3762742.48        0.13084
         439196.01    3762792.48        0.05607                        439246.01
3762792.48        0.06144
         439296.01    3762792.48        0.06759                        439346.01
3762792.48        0.07490
         439396.01    3762792.48        0.08368                        439446.01
3762792.48        0.09438
         439496.01    3762792.48        0.10737                        439546.01
3762792.48        0.12384
         439196.01    3762842.48        0.05434                        439246.01
3762842.48        0.05937
         439296.01    3762842.48        0.06513                        439346.01
3762842.48        0.07189
         439396.01    3762842.48        0.07992                        439446.01
3762842.48        0.08960
         439496.01    3762842.48        0.10120                        439546.01
3762842.48        0.11578
         439573.31    3762470.54        0.15980                        439623.31
3762470.54        0.19277
         439673.31    3762470.54        0.23797                        439723.31
3762470.54        0.30255
         439773.31    3762470.54        0.40033                        439823.31
3762470.54        0.56390
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                PAGE  1143
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONSITE ***
                                    INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                   L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
                   L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                   L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- -

439873.31	3762470.54	0.89698	439573.31	3762520.54	0.16036
439623.31	3762520.54	0.19343	439673.31	3762520.54	0.23865
439723.31	3762520.54	0.30312	439773.31	3762520.54	0.40084
439823.31	3762520.54	0.56454	439873.31	3762520.54	0.89566
439573.31	3762570.54	0.15925	439623.31	3762570.54	0.19186
439673.31	3762570.54	0.23646	439723.31	3762570.54	0.30015
439773.31	3762570.54	0.39664	439823.31	3762570.54	0.55744
439873.31	3762570.54	0.88012	439573.31	3762620.54	0.15648
439623.31	3762620.54	0.18815	439673.31	3762620.54	0.23154
439723.31	3762620.54	0.29344	439773.31	3762620.54	0.38754
439823.31	3762620.54	0.54409	439873.31	3762620.54	0.85534
439573.31	3762670.54	0.15207	439623.31	3762670.54	0.18209
439673.31	3762670.54	0.22352	439723.31	3762670.54	0.28276
439773.31	3762670.54	0.37272	439823.31	3762670.54	0.52421
439873.31	3762670.54	0.82910	439152.35	3761448.92	0.02832
439202.35	3761448.92	0.02939	439252.35	3761448.92	0.03053
439302.35	3761448.92	0.03171	439352.35	3761448.92	0.03292
439402.35	3761448.92	0.03415	439452.35	3761448.92	0.03539
439502.35	3761448.92	0.03663	439552.35	3761448.92	0.03782
439152.35	3761498.92	0.02949	439202.35	3761498.92	0.03070
439252.35	3761498.92	0.03200	439302.35	3761498.92	0.03329
439352.35	3761498.92	0.03464	439402.35	3761498.92	0.03602
439452.35	3761498.92	0.03743	439502.35	3761498.92	0.03889
439552.35	3761498.92	0.04030	439152.35	3761548.92	0.03071
439202.35	3761548.92	0.03205	439252.35	3761548.92	0.03347

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         439302.35    3761548.92        0.03492                      439352.35
3761548.92        0.03643
         439402.35    3761548.92        0.03804                      439452.35
3761548.92        0.03968
         439502.35    3761548.92        0.04135                      439552.35
3761548.92        0.04304
         439152.35    3761598.92        0.03199                      439202.35
3761598.92        0.03345
         439252.35    3761598.92        0.03503                      439302.35
3761598.92        0.03670
         439352.35    3761598.92        0.03841                      439402.35
3761598.92        0.04026
         439452.35    3761598.92        0.04218                      439502.35
3761598.92        0.04411
         439552.35    3761598.92        0.04612                      439152.35
3761648.92        0.03333
         439202.35    3761648.92        0.03496                      439252.35
3761648.92        0.03672
         439302.35    3761648.92        0.03860                      439352.35
3761648.92        0.04057
         439402.35    3761648.92        0.04269                      439452.35
3761648.92        0.04490
         439502.35    3761648.92        0.04722                      439552.35
3761648.92        0.04960
         439152.35    3761698.92        0.03473                      439202.35
3761698.92        0.03652
         439252.35    3761698.92        0.03846                      439302.35
3761698.92        0.04058
         439352.35    3761698.92        0.04287                      439402.35
3761698.92        0.04533
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                PAGE  1144
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONSITE ***
                                    INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                 L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
                 L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                 L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	0.04785	439502.35	3761698.92	0.05061
439552.35	3761698.92	0.05347	439152.35	3761748.92	0.03618
439202.35	3761748.92	0.03818	439252.35	3761748.92	0.04032
439302.35	3761748.92	0.04271	439352.35	3761748.92	0.04529
439402.35	3761748.92	0.04808	439452.35	3761748.92	0.05106
439502.35	3761748.92	0.05424	439552.35	3761748.92	0.05771
439152.35	3761798.92	0.03769	439202.35	3761798.92	0.03991
439252.35	3761798.92	0.04232	439302.35	3761798.92	0.04501
439352.35	3761798.92	0.04789	439402.35	3761798.92	0.05108
439452.35	3761798.92	0.05461	439502.35	3761798.92	0.05833
439552.35	3761798.92	0.06250	439152.35	3761848.92	0.03926
439202.35	3761848.92	0.04171	439252.35	3761848.92	0.04437
439302.35	3761848.92	0.04737	439352.35	3761848.92	0.05063
439402.35	3761848.92	0.05436	439452.35	3761848.92	0.05842
439502.35	3761848.92	0.06282	439552.35	3761848.92	0.06784
439152.35	3761898.92	0.04090	439202.35	3761898.92	0.04358
439252.35	3761898.92	0.04654	439302.35	3761898.92	0.04992
439352.35	3761898.92	0.05365	439402.35	3761898.92	0.05783
439452.35	3761898.92	0.06261	439502.35	3761898.92	0.06792
439552.35	3761898.92	0.07388	439152.35	3761948.92	0.04258
439202.35	3761948.92	0.04551	439252.35	3761948.92	0.04877
439302.35	3761948.92	0.05256	439352.35		

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3761948.92        0.05679
         439402.35    3761948.92        0.06155                        439452.35
3761948.92        0.06708
         439502.35    3761948.92        0.07336                        439552.35
3761948.92        0.08054
         439152.35    3761998.92        0.04428                        439202.35
3761998.92        0.04747
         439252.35    3761998.92        0.05107                        439302.35
3761998.92        0.05528
         439352.35    3761998.92        0.06006                        439402.35
3761998.92        0.06546
         439452.35    3761998.92        0.07178                        439502.35
3761998.92        0.07912
         439552.35    3761998.92        0.08772                        439152.35
3762048.92        0.04598
         439202.35    3762048.92        0.04950                        439252.35
3762048.92        0.05351
         439302.35    3762048.92        0.05811                        439352.35
3762048.92        0.06341
         439402.35    3762048.92        0.06956                        439452.35
3762048.92        0.07680
         439502.35    3762048.92        0.08534                        439552.35
3762048.92        0.09553
         439616.61    3761420.65        0.03781                        439666.61
3761420.65        0.03875
         439716.61    3761420.65        0.03960                        439766.61
3761420.65        0.04036
         439816.61    3761420.65        0.04102                        439866.61
3761420.65        0.04165
         439616.61    3761470.65        0.04041                        439666.61
3761470.65        0.04153
         439716.61    3761470.65        0.04257                        439766.61
3761470.65        0.04350
         439816.61    3761470.65        0.04430                        439866.61
3761470.65        0.04509
         439616.61    3761520.65        0.04332                        439666.61
3761520.65        0.04469
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                  PAGE  1145
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONSITE ***
                                    INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                   L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
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                 L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                 L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         439716.61    3761520.65        0.04596                      439766.61
3761520.65        0.04714
         439816.61    3761520.65        0.04816                      439866.61
3761520.65        0.04910
         439616.61    3761570.65        0.04661                      439666.61
3761570.65        0.04830
         439716.61    3761570.65        0.04989                      439766.61
3761570.65        0.05136
         439816.61    3761570.65        0.05266                      439866.61
3761570.65        0.05381
         440451.14    3762893.83        0.71336                      440501.14
3762893.83        0.55696
         440551.14    3762893.83        0.45329                      440601.14
3762893.83        0.37853
         440651.14    3762893.83        0.32264                      440701.14
3762893.83        0.27922
         440751.14    3762893.83        0.24509                      440801.14
3762893.83        0.21685
         440851.14    3762893.83        0.19370                      440451.14
3762943.83        0.48441
         440501.14    3762943.83        0.41652                      440551.14
3762943.83        0.36019
         440601.14    3762943.83        0.31276                      440651.14
3762943.83        0.27484
         440701.14    3762943.83        0.24346                      440751.14
3762943.83        0.21786
         440801.14    3762943.83        0.19498                      440851.14
3762943.83        0.17557
         441116.67    3763135.31        0.08195                      441166.67
3763135.31        0.07800
         441116.67    3763185.31        0.07457                      441166.67
3763185.31        0.07151
         441116.67    3763235.31        0.06769                      441166.67
3763235.31        0.06531
         441116.67    3763285.31        0.06091                      441166.67
3763285.31        0.05934
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         441116.67    3763335.31        0.05488                      441166.67
3763335.31        0.05370
         441116.67    3763385.31        0.04952                      441166.67
3763385.31        0.04855
         441116.67    3763435.31        0.04470                      441166.67
3763435.31        0.04407
         440433.43    3762815.13        1.21998                      440483.43
3762815.13        0.83936
         440533.43    3762815.13        0.63367                      440583.43
3762815.13        0.50284
         440633.43    3762815.13        0.41290                      440683.43
3762815.13        0.34695
         440733.43    3762815.13        0.29642                      440783.43
3762815.13        0.25711
         440833.43    3762815.13        0.22507                      440883.43
3762815.13        0.19911
         440933.43    3762815.13        0.17790                      440983.43
3762815.13        0.15989
         440433.43    3762865.13        0.98413                      440483.43
3762865.13        0.70349
         440533.43    3762865.13        0.54623                      440583.43
3762865.13        0.44314
         440633.43    3762865.13        0.36975                      440683.43
3762865.13        0.31509
         440733.43    3762865.13        0.27240                      440783.43
3762865.13        0.23856
         440833.43    3762865.13        0.21117                      440883.43
3762865.13        0.18842
         440933.43    3762865.13        0.16931                      440983.43
3762865.13        0.15290
         441118.27    3762686.02        0.12720                      441168.27
3762686.02        0.11599
         441118.27    3762736.02        0.12670                      441168.27
3762736.02        0.11580
         441118.27    3762786.02        0.12495                      441168.27
3762786.02        0.11433
         441118.27    3762836.02        0.12174                      441168.27
3762836.02        0.11169
         440411.67    3762093.41        0.25152                      440461.67
3762093.41        0.22102
         440511.67    3762093.41        0.19531                      440561.67
3762093.41        0.17371
         440611.67    3762093.41        0.15551                      440411.67
3762143.41        0.32792
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONSITE ***

INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 , L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 , L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 , L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	0.27895	440511.67	3762143.41	0.24007
440561.67	3762143.41	0.20899	440611.67	3762143.41	0.18378
440406.61	3762008.86	0.17276	440456.61	3762008.86	0.15766
440506.61	3762008.86	0.14393	440556.61	3762008.86	0.13160
440606.61	3762008.86	0.12063	440656.61	3762008.86	0.11092
440706.61	3762008.86	0.10232	440756.61	3762008.86	0.09470
440806.61	3762008.86	0.08791	440856.61	3762008.86	0.08188
440906.61	3762008.86	0.07651	440956.61	3762008.86	0.07169
441006.61	3762008.86	0.06735	441056.61	3762008.86	0.06344
441106.61	3762008.86	0.05992	441156.61	3762008.86	0.05673
440406.61	3762058.86	0.21523	440456.61	3762058.86	0.19248
440506.61	3762058.86	0.17262	440556.61	3762058.86	0.15542
440606.61	3762058.86	0.14057	440656.61	3762058.86	0.12775
440706.61	3762058.86	0.11664	440756.61	3762058.86	0.10697
440806.61	3762058.86	0.09850	440856.61		

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***

INCLUDING SOURCE(S): L0011892 , L0011893 , L0011894 , L0011895 , L0011896 ,
L0011897 , L0011898 , L0011899 , L0011900 , L0011901 , L0011902 , L0011903 , L0011904 ,
L0011905 , L0011906 , L0011907 , L0011908 , L0011909 , L0011910 , L0011911 , L0011912 ,
L0011913 , L0011914 , L0011915 , L0011916 , L0011917 , L0011918 , L0011919 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.10573	439943.36	3761716.33	2.00117
439170.17	3763092.51	0.04393	439220.17	3763092.51	0.04761
439270.17	3763092.51	0.05215	439320.17	3763092.51	0.05753
439370.17	3763092.51	0.06420	439420.17	3763092.51	0.07266
439470.17	3763092.51	0.08357	439520.17	3763092.51	0.09781
439570.17	3763092.51	0.11721	439620.17	3763092.51	0.14451
439670.17	3763092.51	0.18537	439720.17	3763092.51	0.25217
439770.17	3763092.51	0.37561	439820.17		

```
3763092.51        0.66351
         439870.17    3763092.51        1.83335                   439170.17
3763142.51        0.04258
         439220.17    3763142.51        0.04612                   439270.17
3763142.51        0.05050
         439320.17    3763142.51        0.05563                   439370.17
3763142.51        0.06205
         439420.17    3763142.51        0.07021                   439470.17
3763142.51        0.08051
         439520.17    3763142.51        0.09418                   439570.17
3763142.51        0.11313
         439620.17    3763142.51        0.14001                   439670.17
3763142.51        0.18018
         439720.17    3763142.51        0.24622                   439770.17
3763142.51        0.36866
         439820.17    3763142.51        0.65463                   439870.17
3763142.51        1.81448
         439170.17    3763192.51        0.04116                   439220.17
3763192.51        0.04457
         439270.17    3763192.51        0.04875                   439320.17
3763192.51        0.05358
         439370.17    3763192.51        0.05972                   439420.17
3763192.51        0.06753
         439470.17    3763192.51        0.07732                   439520.17
3763192.51        0.09044
         439570.17    3763192.51        0.10855                   439620.17
3763192.51        0.13458
         439670.17    3763192.51        0.17369                   439720.17
3763192.51        0.23808
         439770.17    3763192.51        0.35867                   439820.17
3763192.51        0.64257
         439870.17    3763192.51        1.79239                   439170.17
3763242.51        0.03967
         439220.17    3763242.51        0.04291                   439270.17
3763242.51        0.04683
         439320.17    3763242.51        0.05147                   439370.17
3763242.51        0.05724
         439420.17    3763242.51        0.06449                   439470.17
3763242.51        0.07372
         439520.17    3763242.51        0.08614                   439570.17
3763242.51        0.10332
         439620.17    3763242.51        0.12811                   439670.17
3763242.51        0.16577
         439720.17    3763242.51        0.22820                   439770.17
3763242.51        0.34645
         439820.17    3763242.51        0.62695                   439870.17
3763242.51        1.76604
         439170.17    3763292.51        0.03807                   439220.17
3763292.51        0.04097
         439270.17    3763292.51        0.04459                   439320.17
3763292.51        0.04899
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***
INCLUDING SOURCE(S): L0011892 , L0011893 , L0011894 , L0011895 , L0011896 ,
L0011897 , L0011898 , L0011899 , L0011900 , L0011901 , L0011902 , L0011903 , L0011904 ,
L0011905 , L0011906 , L0011907 , L0011908 , L0011909 , L0011910 , L0011911 , L0011912 ,
L0011913 , L0011914 , L0011915 , L0011916 , L0011917 , L0011918 , L0011919 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.04656	439370.17	3763342.51	0.05155
439420.17	3763342.51	0.05758	439470.17	3763342.51	0.06532
439520.17	3763342.51	0.07565	439570.17	3763342.51	0.09014
439620.17	3763342.51	0.11109	439670.17	3763342.51	0.14309
439370.17	3763292.51	0.05447	439420.17	3763292.51	0.06106
439470.17	3763292.51	0.06960	439520.17	3763292.51	0.08100
439570.17	3763292.51	0.09717	439620.17	3763292.51	0.12016
439670.17	3763292.51	0.15562	439720.17	3763292.51	0.21489
439770.17	3763292.51	0.32829	439820.17	3763292.51	0.60357
439870.17	3763292.51	1.73131	439170.17	3763342.51	0.03643
439220.17	3763342.51	0.03913	439270.17	3763342.51	0.04256

```
         439720.17    3763342.51        0.19723                    439770.17
3763342.51        0.30230
         439820.17    3763342.51        0.56552                    439870.17
3763342.51        1.67593
         439170.17    3763392.51        0.03475                    439220.17
3763392.51        0.03726
         439270.17    3763392.51        0.04038                    439320.17
3763392.51        0.04388
         439370.17    3763392.51        0.04833                    439420.17
3763392.51        0.05364
         439470.17    3763392.51        0.06048                    439520.17
3763392.51        0.06980
         439570.17    3763392.51        0.08243                    439620.17
3763392.51        0.10055
         439670.17    3763392.51        0.12788                    439720.17
3763392.51        0.17421
         439770.17    3763392.51        0.26432                    439820.17
3763392.51        0.49599
         439870.17    3763392.51        1.54651                    439170.17
3763442.51        0.03307
         439220.17    3763442.51        0.03533                    439270.17
3763442.51        0.03814
         439320.17    3763442.51        0.04132                    439370.17
3763442.51        0.04513
         439420.17    3763442.51        0.04985                    439470.17
3763442.51        0.05575
         439520.17    3763442.51        0.06365                    439570.17
3763442.51        0.07413
         439620.17    3763442.51        0.08891                    439670.17
3763442.51        0.11070
         439720.17    3763442.51        0.14608                    439770.17
3763442.51        0.21194
         439820.17    3763442.51        0.37185                    439870.17
3763442.51        1.09073
         439203.20    3762911.16        0.05088                    439253.20
3762911.16        0.05560
         439303.20    3762911.16        0.06131                    439353.20
3762911.16        0.06845
         439403.20    3762911.16        0.07699                    439453.20
3762911.16        0.08770
         439503.20    3762911.16        0.10170                    439553.20
3762911.16        0.12007
         439203.20    3762961.16        0.04974                    439253.20
3762961.16        0.05438
         439303.20    3762961.16        0.05989                    439353.20
3762961.16        0.06673
         439403.20    3762961.16        0.07518                    439453.20
3762961.16        0.08570
         439503.20    3762961.16        0.09952                    439553.20
3762961.16        0.11774
         439203.20    3763011.16        0.04847                    439253.20
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3763011.16        0.05295
         439303.20    3763011.16        0.05832                      439353.20
3763011.16        0.06486
         439403.20    3763011.16        0.07330                      439453.20
3763011.16        0.08361
         439503.20    3763011.16        0.09717                      439553.20
3763011.16        0.11505
         439203.20    3763061.16        0.04717                      439253.20
3763061.16        0.05144
         439303.20    3763061.16        0.05662                      439353.20
3763061.16        0.06295
         439403.20    3763061.16        0.07092                      439453.20
3763061.16        0.08107
         439503.20    3763061.16        0.09432                      439553.20
3763061.16        0.11192
         439196.01    3762392.48        0.05825                      439246.01
3762392.48        0.06385
         439296.01    3762392.48        0.07050                      439346.01
3762392.48        0.07846
         439396.01    3762392.48        0.08815                      439446.01
3762392.48        0.10019
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                  PAGE  1149
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1OFFSIT ***
                                    INCLUDING SOURCE(S):     L0011892    , L0011893
, L0011894    , L0011895    , L0011896    ,
                  L0011897    , L0011898    , L0011899    , L0011900    , L0011901
, L0011902    , L0011903    , L0011904    ,
                  L0011905    , L0011906    , L0011907    , L0011908    , L0011909
, L0011910    , L0011911    , L0011912    ,
                  L0011913    , L0011914    , L0011915    , L0011916    , L0011917
, L0011918    , L0011919    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439496.01    3762392.48        0.11531                      439546.01
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3762392.48        0.13493
         439196.01    3762442.48        0.05784                    439246.01
3762442.48        0.06339
         439296.01    3762442.48        0.06987                    439346.01
3762442.48        0.07770
         439396.01    3762442.48        0.08721                    439446.01
3762442.48        0.09896
         439496.01    3762442.48        0.11386                    439546.01
3762442.48        0.13327
         439196.01    3762492.48        0.05736                    439246.01
3762492.48        0.06287
         439296.01    3762492.48        0.06928                    439346.01
3762492.48        0.07695
         439396.01    3762492.48        0.08635                    439446.01
3762492.48        0.09798
         439496.01    3762492.48        0.11256                    439546.01
3762492.48        0.13163
         439196.01    3762542.48        0.05682                    439246.01
3762542.48        0.06227
         439296.01    3762542.48        0.06861                    439346.01
3762542.48        0.07625
         439396.01    3762542.48        0.08548                    439446.01
3762542.48        0.09695
         439496.01    3762542.48        0.11130                    439546.01
3762542.48        0.13023
         439196.01    3762592.48        0.05620                    439246.01
3762592.48        0.06147
         439296.01    3762592.48        0.06778                    439346.01
3762592.48        0.07536
         439396.01    3762592.48        0.08454                    439446.01
3762592.48        0.09585
         439496.01    3762592.48        0.11003                    439546.01
3762592.48        0.12881
         439196.01    3762642.48        0.05549                    439246.01
3762642.48        0.06058
         439296.01    3762642.48        0.06697                    439346.01
3762642.48        0.07450
         439396.01    3762642.48        0.08352                    439446.01
3762642.48        0.09469
         439496.01    3762642.48        0.10863                    439546.01
3762642.48        0.12720
         439196.01    3762692.48        0.05460                    439246.01
3762692.48        0.05974
         439296.01    3762692.48        0.06576                    439346.01
3762692.48        0.07316
         439396.01    3762692.48        0.08234                    439446.01
3762692.48        0.09339
         439496.01    3762692.48        0.10715                    439546.01
3762692.48        0.12552
         439196.01    3762742.48        0.05367                    439246.01
3762742.48        0.05882
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         439296.01    3762742.48        0.06476                      439346.01
3762742.48        0.07201
         439396.01    3762742.48        0.08086                      439446.01
3762742.48        0.09179
         439496.01    3762742.48        0.10538                      439546.01
3762742.48        0.12366
         439196.01    3762792.48        0.05261                      439246.01
3762792.48        0.05787
         439296.01    3762792.48        0.06359                      439346.01
3762792.48        0.07062
         439396.01    3762792.48        0.07927                      439446.01
3762792.48        0.09016
         439496.01    3762792.48        0.10365                      439546.01
3762792.48        0.12174
         439196.01    3762842.48        0.05164                      439246.01
3762842.48        0.05665
         439296.01    3762842.48        0.06243                      439346.01
3762842.48        0.06937
         439396.01    3762842.48        0.07783                      439446.01
3762842.48        0.08849
         439496.01    3762842.48        0.10190                      439546.01
3762842.48        0.11983
         439573.31    3762470.54        0.14565                      439623.31
3762470.54        0.17674
         439673.31    3762470.54        0.22256                      439723.31
3762470.54        0.29634
         439773.31    3762470.54        0.43239                      439823.31
3762470.54        0.75883
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1150
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1OFFSIT ***
                                   INCLUDING SOURCE(S):     L0011892    , L0011893
, L0011894    , L0011895    , L0011896    ,
                  L0011897    , L0011898    , L0011899    , L0011900    , L0011901
, L0011902    , L0011903    , L0011904    ,
                  L0011905    , L0011906    , L0011907    , L0011908    , L0011909
, L0011910    , L0011911    , L0011912    ,
                  L0011913    , L0011914    , L0011915    , L0011916    , L0011917
, L0011918    , L0011919    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	2.22006	439573.31	3762520.54	0.14403
439623.31	3762520.54	0.17495	439673.31	3762520.54	0.22032
439723.31	3762520.54	0.29328	439773.31	3762520.54	0.42861
439823.31	3762520.54	0.75386	439873.31	3762520.54	2.20117
439573.31	3762570.54	0.14246	439623.31	3762570.54	0.17307
439673.31	3762570.54	0.21802	439723.31	3762570.54	0.29066
439773.31	3762570.54	0.42555	439823.31	3762570.54	0.74878
439873.31	3762570.54	2.18670	439573.31	3762620.54	0.14082
439623.31	3762620.54	0.17109	439673.31	3762620.54	0.21604
439723.31	3762620.54	0.28830	439773.31	3762620.54	0.42274
439823.31	3762620.54	0.74378	439873.31	3762620.54	2.17025
439573.31	3762670.54	0.13905	439623.31	3762670.54	0.16874
439673.31	3762670.54	0.21355	439723.31	3762670.54	0.28564
439773.31	3762670.54	0.41877	439823.31	3762670.54	0.73840
439873.31	3762670.54	2.14949	439152.35	3761448.92	0.03980
439202.35	3761448.92	0.04268	439252.35	3761448.92	0.04605
439302.35	3761448.92	0.04997	439352.35	3761448.92	0.05464
439402.35	3761448.92	0.06026	439452.35	3761448.92	0.06717
439502.35	3761448.92	0.07594	439552.35	3761448.92	0.08732
439152.35	3761498.92	0.04143	439202.35	3761498.92	0.04461
439252.35	3761498.92	0.04834	439302.35	3761498.92	0.05267
439352.35	3761498.92	0.05786	439402.35	3761498.92	0.06420
439452.35	3761498.92	0.07211	439502.35		

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3761498.92        0.08233
         439552.35    3761498.92        0.09586                      439152.35
3761548.92        0.04303
         439202.35    3761548.92        0.04647                      439252.35
3761548.92        0.05050
         439302.35    3761548.92        0.05525                      439352.35
3761548.92        0.06096
         439402.35    3761548.92        0.06802                      439452.35
3761548.92        0.07690
         439502.35    3761548.92        0.08842                      439552.35
3761548.92        0.10391
         439152.35    3761598.92        0.04457                      439202.35
3761598.92        0.04824
         439252.35    3761598.92        0.05258                      439302.35
3761598.92        0.05774
         439352.35    3761598.92        0.06394                      439402.35
3761598.92        0.07166
         439452.35    3761598.92        0.08142                      439502.35
3761598.92        0.09408
         439552.35    3761598.92        0.11121                      439152.35
3761648.92        0.04603
         439202.35    3761648.92        0.04994                      439252.35
3761648.92        0.05457
         439302.35    3761648.92        0.06010                      439352.35
3761648.92        0.06677
         439402.35    3761648.92        0.07506                      439452.35
3761648.92        0.08555
         439502.35    3761648.92        0.09922                      439552.35
3761648.92        0.11763
         439152.35    3761698.92        0.04741                      439202.35
3761698.92        0.05154
         439252.35    3761698.92        0.05640                      439302.35
3761698.92        0.06225
         439352.35    3761698.92        0.06936                      439402.35
3761698.92        0.07816
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                  PAGE  1151
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1OFFSIT ***
                                    INCLUDING SOURCE(S):     L0011892    , L0011893
, L0011894    , L0011895    , L0011896    ,
                  L0011897    , L0011898    , L0011899    , L0011900    , L0011901
, L0011902    , L0011903    , L0011904    ,
                  L0011905    , L0011906    , L0011907    , L0011908    , L0011909
, L0011910    , L0011911    , L0011912    ,
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L0011913 , L0011914 , L0011915 , L0011916 , L0011917
, L0011918 , L0011919 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	0.08923	439502.35	3761698.92	0.10370
439552.35	3761698.92	0.12310	439152.35	3761748.92	0.04869
439202.35	3761748.92	0.05302	439252.35	3761748.92	0.05810
439302.35	3761748.92	0.06424	439352.35	3761748.92	0.07168
439402.35	3761748.92	0.08088	439452.35	3761748.92	0.09249
439502.35	3761748.92	0.10753	439552.35	3761748.92	0.12773
439152.35	3761798.92	0.04987	439202.35	3761798.92	0.05438
439252.35	3761798.92	0.05969	439302.35	3761798.92	0.06606
439352.35	3761798.92	0.07377	439402.35	3761798.92	0.08332
439452.35	3761798.92	0.09538	439502.35	3761798.92	0.11090
439552.35	3761798.92	0.13169	439152.35	3761848.92	0.05093
439202.35	3761848.92	0.05559	439252.35	3761848.92	0.06108
439302.35	3761848.92	0.06766	439352.35	3761848.92	0.07561
439402.35	3761848.92	0.08548	439452.35	3761848.92	0.09786
439502.35	3761848.92	0.11379	439552.35	3761848.92	0.13505
439152.35	3761898.92	0.05187	439202.35	3761898.92	0.05666
439252.35	3761898.92	0.06230	439302.35	3761898.92	0.06906
439352.35	3761898.92	0.07724	439402.35	3761898.92	0.08732
439452.35	3761898.92	0.09997	439502.35	3761898.92	0.11627

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         439552.35    3761898.92        0.13785                      439152.35
3761948.92        0.05267
         439202.35    3761948.92        0.05757                      439252.35
3761948.92        0.06333
         439302.35    3761948.92        0.07023                      439352.35
3761948.92        0.07857
         439402.35    3761948.92        0.08884                      439452.35
3761948.92        0.10169
         439502.35    3761948.92        0.11820                      439552.35
3761948.92        0.14003
         439152.35    3761998.92        0.05333                      439202.35
3761998.92        0.05831
         439252.35    3761998.92        0.06416                      439302.35
3761998.92        0.07116
         439352.35    3761998.92        0.07961                      439402.35
3761998.92        0.09003
         439452.35    3761998.92        0.10306                      439502.35
3761998.92        0.11977
         439552.35    3761998.92        0.14183                      439152.35
3762048.92        0.05385
         439202.35    3762048.92        0.05887                      439252.35
3762048.92        0.06479
         439302.35    3762048.92        0.07185                      439352.35
3762048.92        0.08038
         439402.35    3762048.92        0.09087                      439452.35
3762048.92        0.10397
         439502.35    3762048.92        0.12076                      439552.35
3762048.92        0.14293
         439616.61    3761420.65        0.10074                      439666.61
3761420.65        0.12189
         439716.61    3761420.65        0.15432                      439766.61
3761420.65        0.20993
         439816.61    3761420.65        0.32296                      439866.61
3761420.65        0.58806
         439616.61    3761470.65        0.11407                      439666.61
3761470.65        0.14217
         439716.61    3761470.65        0.18870                      439766.61
3761470.65        0.27966
         439816.61    3761470.65        0.52472                      439866.61
3761470.65        2.03552
         439616.61    3761520.65        0.12694                      439666.61
3761520.65        0.16141
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

                                PAGE  1152
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: P1OFFSIT ***
INCLUDING SOURCE(S): L0011892 , L0011893
, L0011894 , L0011895 , L0011896 ,
L0011897 , L0011898 , L0011899 , L0011900 , L0011901
, L0011902 , L0011903 , L0011904 ,
L0011905 , L0011906 , L0011907 , L0011908 , L0011909
, L0011910 , L0011911 , L0011912 ,
L0011913 , L0011914 , L0011915 , L0011916 , L0011917
, L0011918 , L0011919 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	0.22017	439766.61	3761520.65	0.33883
439816.61	3761520.65	0.66343	439866.61	3761520.65	2.44777
439616.61	3761570.65	0.13843	439666.61	3761570.65	0.17772
439716.61	3761570.65	0.24450	439766.61	3761570.65	0.37695
439816.61	3761570.65	0.72356	439866.61	3761570.65	2.49639
440451.14	3762893.83	0.13084	440501.14	3762893.83	0.11831
440551.14	3762893.83	0.10799	440601.14	3762893.83	0.09918
440651.14	3762893.83	0.09175	440701.14	3762893.83	0.08541
440751.14	3762893.83	0.08010	440801.14	3762893.83	0.07536
440851.14	3762893.83	0.07133	440451.14	3762943.83	0.12839
440501.14	3762943.83	0.11578	440551.14	3762943.83	0.10554
440601.14	3762943.83	0.09674	440651.14	3762943.83	0.08948
440701.14	3762943.83	0.08327	440751.14	3762943.83	0.07808
440801.14	3762943.83	0.07322	440851.14	3762943.83	0.06894
441116.67	3763135.31	0.04713	441166.67	3763135.31	0.04523
441116.67	3763185.31	0.04560	441166.67		

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3763185.31        0.04378
         441116.67    3763235.31        0.04411                    441166.67
3763235.31        0.04233
         441116.67    3763285.31        0.04247                    441166.67
3763285.31        0.04083
         441116.67    3763335.31        0.04085                    441166.67
3763335.31        0.03927
         441116.67    3763385.31        0.03923                    441166.67
3763385.31        0.03768
         441116.67    3763435.31        0.03755                    441166.67
3763435.31        0.03614
         440433.43    3762815.13        0.14029                    440483.43
3762815.13        0.12676
         440533.43    3762815.13        0.11568                    440583.43
3762815.13        0.10621
         440633.43    3762815.13        0.09835                    440683.43
3762815.13        0.09163
         440733.43    3762815.13        0.08575                    440783.43
3762815.13        0.08080
         440833.43    3762815.13        0.07625                    440883.43
3762815.13        0.07232
         440933.43    3762815.13        0.06900                    440983.43
3762815.13        0.06592
         440433.43    3762865.13        0.13756                    440483.43
3762865.13        0.12406
         440533.43    3762865.13        0.11295                    440583.43
3762865.13        0.10361
         440633.43    3762865.13        0.09568                    440683.43
3762865.13        0.08903
         440733.43    3762865.13        0.08322                    440783.43
3762865.13        0.07827
         440833.43    3762865.13        0.07400                    440883.43
3762865.13        0.07021
         440933.43    3762865.13        0.06685                    440983.43
3762865.13        0.06372
         441118.27    3762686.02        0.06608                    441168.27
3762686.02        0.06372
         441118.27    3762736.02        0.06268                    441168.27
3762736.02        0.06046
         441118.27    3762786.02        0.06011                    441168.27
3762786.02        0.05782
         441118.27    3762836.02        0.05787                    441168.27
3762836.02        0.05560
         440411.67    3762093.41        3.06911                    440461.67
3762093.41        3.05806
         440511.67    3762093.41        3.04803                    440561.67
3762093.41        3.03996
         440611.67    3762093.41        3.03259                    440411.67
3762143.41        0.83431
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***
                                  INCLUDING SOURCE(S):   L0011892   , L0011893 , L0011894   , L0011895   , L0011896   ,
                 L0011897   , L0011898   , L0011899   , L0011900   , L0011901 , L0011902   , L0011903   , L0011904   ,
                 L0011905   , L0011906   , L0011907   , L0011908   , L0011909 , L0011910   , L0011911   , L0011912   ,
                 L0011913   , L0011914   , L0011915   , L0011916   , L0011917 , L0011918   , L0011919   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0011686 , L0011687 , L0011688 , L0011689 , L0011690 ,
L0011691 , L0011692 , L0011693 , L0011694 , L0011695 , L0011696 , L0011697 , L0011698 ,
L0011699 , L0011700 , L0011701 , L0011702 , L0011703 , L0011704 , L0011705 , L0011706 ,
L0011707 , L0011708 , L0011709 , L0011710 , L0011711 , L0011712 , L0011713 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.08222	439943.36	3761716.33	0.14594
439170.17	3763092.51	0.02839	439220.17	3763092.51	0.02927
439270.17	3763092.51	0.03049	439320.17	3763092.51	0.03158
439370.17	3763092.51	0.03278	439420.17	3763092.51	0.03413
439470.17	3763092.51	0.03561	439520.17	3763092.51	0.03692
440606.61	3762058.86	2.61951	440656.61	3762058.86	2.60831
440706.61	3762058.86	2.61333	440756.61	3762058.86	2.61271
440806.61	3762058.86	2.57497	440856.61	3762058.86	2.58087
440906.61	3762058.86	2.58765	440956.61	3762058.86	2.56616
441006.61	3762058.86	2.54074	441056.61	3762058.86	2.49408
441106.61	3762058.86	2.36345	441156.61	3762058.86	1.49174

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         439570.17    3763092.51        0.03818                    439620.17
3763092.51        0.03919
         439670.17    3763092.51        0.04012                    439720.17
3763092.51        0.04115
         439770.17    3763092.51        0.04222                    439820.17
3763092.51        0.04321
         439870.17    3763092.51        0.04417                    439170.17
3763142.51        0.02698
         439220.17    3763142.51        0.02786                    439270.17
3763142.51        0.02894
         439320.17    3763142.51        0.02986                    439370.17
3763142.51        0.03092
         439420.17    3763142.51        0.03210                    439470.17
3763142.51        0.03307
         439520.17    3763142.51        0.03406                    439570.17
3763142.51        0.03522
         439620.17    3763142.51        0.03619                    439670.17
3763142.51        0.03690
         439720.17    3763142.51        0.03766                    439770.17
3763142.51        0.03841
         439820.17    3763142.51        0.03910                    439870.17
3763142.51        0.03982
         439170.17    3763192.51        0.02572                    439220.17
3763192.51        0.02655
         439270.17    3763192.51        0.02750                    439320.17
3763192.51        0.02827
         439370.17    3763192.51        0.02920                    439420.17
3763192.51        0.03021
         439470.17    3763192.51        0.03099                    439520.17
3763192.51        0.03183
         439570.17    3763192.51        0.03267                    439620.17
3763192.51        0.03349
         439670.17    3763192.51        0.03397                    439720.17
3763192.51        0.03438
         439770.17    3763192.51        0.03488                    439820.17
3763192.51        0.03548
         439870.17    3763192.51        0.03612                    439170.17
3763242.51        0.02454
         439220.17    3763242.51        0.02529                    439270.17
3763242.51        0.02611
         439320.17    3763242.51        0.02686                    439370.17
3763242.51        0.02764
         439420.17    3763242.51        0.02840                    439470.17
3763242.51        0.02904
         439520.17    3763242.51        0.02973                    439570.17
3763242.51        0.03041
         439620.17    3763242.51        0.03105                    439670.17
3763242.51        0.03144
         439720.17    3763242.51        0.03172                    439770.17
3763242.51        0.03207
         439820.17    3763242.51        0.03247                    439870.17
```

3763242.51   0.03298
         439170.17   3763292.51   0.02337   439220.17
3763292.51   0.02392
         439270.17   3763292.51   0.02460   439320.17
3763292.51   0.02532
         439370.17   3763292.51   0.02609   439420.17
3763292.51   0.02661
         439470.17   3763292.51   0.02713   439520.17
3763292.51   0.02763
         439570.17   3763292.51   0.02828   439620.17
3763292.51   0.02871
         439670.17   3763292.51   0.02910   439720.17
3763292.51   0.02932
         439770.17   3763292.51   0.02948   439820.17
3763292.51   0.02984
         439870.17   3763292.51   0.03034   439170.17
3763342.51   0.02230
         439220.17   3763342.51   0.02281   439270.17
3763342.51   0.02347

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                  INCLUDING SOURCE(S):   L0011686   , L0011687
, L0011688   , L0011689   , L0011690   ,
                  L0011691   , L0011692   , L0011693   , L0011694   , L0011695
, L0011696   , L0011697   , L0011698   ,
                  L0011699   , L0011700   , L0011701   , L0011702   , L0011703
, L0011704   , L0011705   , L0011706   ,
                  L0011707   , L0011708   , L0011709   , L0011710   , L0011711
, L0011712   , L0011713   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
3763342.51        0.02554
         439520.17    3763342.51        0.02592                    439570.17
3763342.51        0.02637
         439620.17    3763342.51        0.02678                    439670.17
3763342.51        0.02704
         439720.17    3763342.51        0.02723                    439770.17
3763342.51        0.02731
         439820.17    3763342.51        0.02762                    439870.17
3763342.51        0.02804
         439170.17    3763392.51        0.02130                    439220.17
3763392.51        0.02177
         439270.17    3763392.51        0.02236                    439320.17
3763392.51        0.02277
         439370.17    3763392.51        0.02327                    439420.17
3763392.51        0.02361
         439470.17    3763392.51        0.02394                    439520.17
3763392.51        0.02435
         439570.17    3763392.51        0.02468                    439620.17
3763392.51        0.02502
         439670.17    3763392.51        0.02517                    439720.17
3763392.51        0.02539
         439770.17    3763392.51        0.02549                    439820.17
3763392.51        0.02573
         439870.17    3763392.51        0.02608                    439170.17
3763442.51        0.02036
         439220.17    3763442.51        0.02078                    439270.17
3763442.51        0.02130
         439320.17    3763442.51        0.02169                    439370.17
3763442.51        0.02204
         439420.17    3763442.51        0.02236                    439470.17
3763442.51        0.02261
         439520.17    3763442.51        0.02293                    439570.17
3763442.51        0.02316
         439620.17    3763442.51        0.02340                    439670.17
3763442.51        0.02355
         439720.17    3763442.51        0.02370                    439770.17
3763442.51        0.02383
         439820.17    3763442.51        0.02406                    439870.17
3763442.51        0.02440
         439203.20    3762911.16        0.03487                    439253.20
3762911.16        0.03658
         439303.20    3762911.16        0.03850                    439353.20
3762911.16        0.04094
         439403.20    3762911.16        0.04317                    439453.20
3762911.16        0.04543
         439503.20    3762911.16        0.04802                    439553.20
3762911.16        0.05049
         439203.20    3762961.16        0.03323                    439253.20
3762961.16        0.03483
         439303.20    3762961.16        0.03642                    439353.20
3762961.16        0.03837
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         439403.20    3762961.16        0.04038                      439453.20
3762961.16        0.04231
         439503.20    3762961.16        0.04455                      439553.20
3762961.16        0.04663
         439203.20    3763011.16        0.03156                      439253.20
3763011.16        0.03294
         439303.20    3763011.16        0.03435                      439353.20
3763011.16        0.03578
         439403.20    3763011.16        0.03792                      439453.20
3763011.16        0.03953
         439503.20    3763011.16        0.04141                      439553.20
3763011.16        0.04303
         439203.20    3763061.16        0.02994                      439253.20
3763061.16        0.03104
         439303.20    3763061.16        0.03223                      439353.20
3763061.16        0.03352
         439403.20    3763061.16        0.03499                      439453.20
3763061.16        0.03656
         439503.20    3763061.16        0.03816                      439553.20
3763061.16        0.03952
         439196.01    3762392.48        0.05095                      439246.01
3762392.48        0.05546
         439296.01    3762392.48        0.06071                      439346.01
3762392.48        0.06686
         439396.01    3762392.48        0.07415                      439446.01
3762392.48        0.08288
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                PAGE  1156
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0011686    , L0011687
, L0011688    , L0011689    , L0011690    ,
                  L0011691    , L0011692    , L0011693    , L0011694    , L0011695
, L0011696    , L0011697    , L0011698    ,
                  L0011699    , L0011700    , L0011701    , L0011702    , L0011703
, L0011704    , L0011705    , L0011706    ,
                  L0011707    , L0011708    , L0011709    , L0011710    , L0011711
, L0011712    , L0011713    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	0.09334	439546.01	3762392.48	0.10602
439196.01	3762442.48	0.04982	439246.01	3762442.48	0.05410
439296.01	3762442.48	0.05901	439346.01	3762442.48	0.06477
439396.01	3762442.48	0.07152	439446.01	3762442.48	0.07949
439496.01	3762442.48	0.08901	439546.01	3762442.48	0.10044
439196.01	3762492.48	0.04854	439246.01	3762492.48	0.05258
439296.01	3762492.48	0.05717	439346.01	3762492.48	0.06248
439396.01	3762492.48	0.06869	439446.01	3762492.48	0.07597
439496.01	3762492.48	0.08445	439546.01	3762492.48	0.09455
439196.01	3762542.48	0.04713	439246.01	3762542.48	0.05091
439296.01	3762542.48	0.05518	439346.01	3762542.48	0.06009
439396.01	3762542.48	0.06571	439446.01	3762542.48	0.07225
439496.01	3762542.48	0.07977	439546.01	3762542.48	0.08868
439196.01	3762592.48	0.04564	439246.01	3762592.48	0.04909
439296.01	3762592.48	0.05303	439346.01	3762592.48	0.05752
439396.01	3762592.48	0.06262	439446.01	3762592.48	0.06844
439496.01	3762592.48	0.07505	439546.01	3762592.48	0.08282
439196.01	3762642.48	0.04407	439246.01	3762642.48	0.04723
439296.01	3762642.48	0.05087	439346.01	3762642.48	0.05495
439396.01	3762642.48	0.05949	439446.01	3762642.48	0.06463
439496.01	3762642.48	0.07039	439546.01	3762642.48	0.07698
439196.01	3762692.48	0.04230	439246.01	3762692.48	0.04520
439296.01	3762692.48	0.04831	439346.01	3762692.48	0.05210
439396.01	3762692.48	0.05634	439446.01		

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3762692.48        0.06087
         439496.01    3762692.48        0.06555                      439546.01
3762692.48        0.07119
         439196.01    3762742.48        0.04037                      439246.01
3762742.48        0.04319
         439296.01    3762742.48        0.04599                      439346.01
3762742.48        0.04931
         439396.01    3762742.48        0.05294                      439446.01
3762742.48        0.05688
         439496.01    3762742.48        0.06082                      439546.01
3762742.48        0.06561
         439196.01    3762792.48        0.03851                      439246.01
3762792.48        0.04125
         439296.01    3762792.48        0.04365                      439346.01
3762792.48        0.04645
         439396.01    3762792.48        0.04957                      439446.01
3762792.48        0.05310
         439496.01    3762792.48        0.05649                      439546.01
3762792.48        0.06051
         439196.01    3762842.48        0.03680                      439246.01
3762842.48        0.03918
         439296.01    3762842.48        0.04151                      439346.01
3762842.48        0.04402
         439396.01    3762842.48        0.04667                      439446.01
3762842.48        0.04962
         439496.01    3762842.48        0.05250                      439546.01
3762842.48        0.05582
         439573.31    3762470.54        0.10396                      439623.31
3762470.54        0.11814
         439673.31    3762470.54        0.13548                      439723.31
3762470.54        0.15692
         439773.31    3762470.54        0.18367                      439823.31
3762470.54        0.21791
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        17:25:05

                                PAGE  1157
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0011686    , L0011687
, L0011688    , L0011689    , L0011690    ,
                  L0011691    , L0011692    , L0011693    , L0011694    , L0011695
, L0011696    , L0011697    , L0011698    ,
                  L0011699    , L0011700    , L0011701    , L0011702    , L0011703
, L0011704    , L0011705    , L0011706    ,
                  L0011707    , L0011708    , L0011709    , L0011710    , L0011711
, L0011712    , L0011713    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	0.26253	439573.31	3762520.54	0.09721
439623.31	3762520.54	0.10953	439673.31	3762520.54	0.12427
439723.31	3762520.54	0.14215	439773.31	3762520.54	0.16431
439823.31	3762520.54	0.19253	439873.31	3762520.54	0.22816
439573.31	3762570.54	0.09052	439623.31	3762570.54	0.10104
439673.31	3762570.54	0.11346	439723.31	3762570.54	0.12823
439773.31	3762570.54	0.14639	439823.31	3762570.54	0.16894
439873.31	3762570.54	0.19525	439573.31	3762620.54	0.08399
439623.31	3762620.54	0.09274	439673.31	3762620.54	0.10309
439723.31	3762620.54	0.11485	439773.31	3762620.54	0.12945
439823.31	3762620.54	0.14670	439873.31	3762620.54	0.16634
439573.31	3762670.54	0.07746	439623.31	3762670.54	0.08422
439673.31	3762670.54	0.09273	439723.31	3762670.54	0.10246
439773.31	3762670.54	0.11335	439823.31	3762670.54	0.12650
439873.31	3762670.54	0.14165	439152.35	3761448.92	0.03264
439202.35	3761448.92	0.03427	439252.35	3761448.92	0.03607
439302.35	3761448.92	0.03801	439352.35	3761448.92	0.04010
439402.35	3761448.92	0.04235	439452.35	3761448.92	0.04474
439502.35	3761448.92	0.04731	439552.35	3761448.92	0.04998
439152.35	3761498.92	0.03389	439202.35	3761498.92	0.03571

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         439252.35    3761498.92        0.03772                      439302.35
3761498.92        0.03984
         439352.35    3761498.92        0.04216                      439402.35
3761498.92        0.04467
         439452.35    3761498.92        0.04738                      439502.35
3761498.92        0.05035
         439552.35    3761498.92        0.05348                      439152.35
3761548.92        0.03517
         439202.35    3761548.92        0.03716                      439252.35
3761548.92        0.03935
         439302.35    3761548.92        0.04170                      439352.35
3761548.92        0.04427
         439402.35    3761548.92        0.04713                      439452.35
3761548.92        0.05024
         439502.35    3761548.92        0.05363                      439552.35
3761548.92        0.05730
         439152.35    3761598.92        0.03648                      439202.35
3761598.92        0.03863
         439252.35    3761598.92        0.04103                      439302.35
3761598.92        0.04366
         439352.35    3761598.92        0.04654                      439402.35
3761598.92        0.04977
         439452.35    3761598.92        0.05334                      439502.35
3761598.92        0.05723
         439552.35    3761598.92        0.06155                      439152.35
3761648.92        0.03780
         439202.35    3761648.92        0.04016                      439252.35
3761648.92        0.04279
         439302.35    3761648.92        0.04571                      439352.35
3761648.92        0.04894
         439402.35    3761648.92        0.05258                      439452.35
3761648.92        0.05664
         439502.35    3761648.92        0.06118                      439552.35
3761648.92        0.06623
         439152.35    3761698.92        0.03915                      439202.35
3761698.92        0.04170
         439252.35    3761698.92        0.04456                      439302.35
3761698.92        0.04779
         439352.35    3761698.92        0.05142                      439402.35
3761698.92        0.05554
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       17:25:05

                                PAGE  1158
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0011686    , L0011687
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, L0011688 , L0011689 , L0011690 ,
L0011691 , L0011692 , L0011693 , L0011694 , L0011695
, L0011696 , L0011697 , L0011698 ,
L0011699 , L0011700 , L0011701 , L0011702 , L0011703
, L0011704 , L0011705 , L0011706 ,
L0011707 , L0011708 , L0011709 , L0011710 , L0011711
, L0011712 , L0011713 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	0.06011	439502.35	3761698.92	0.06538
439552.35	3761698.92	0.07132	439152.35	3761748.92	0.04051
439202.35	3761748.92	0.04329	439252.35	3761748.92	0.04638
439302.35	3761748.92	0.04993	439352.35	3761748.92	0.05395
439402.35	3761748.92	0.05854	439452.35	3761748.92	0.06376
439502.35	3761748.92	0.06975	439552.35	3761748.92	0.07673
439152.35	3761798.92	0.04188	439202.35	3761798.92	0.04489
439252.35	3761798.92	0.04828	439302.35	3761798.92	0.05217
439352.35	3761798.92	0.05657	439402.35	3761798.92	0.06167
439452.35	3761798.92	0.06763	439502.35	3761798.92	0.07446
439552.35	3761798.92	0.08261	439152.35	3761848.92	0.04326
439202.35	3761848.92	0.04650	439252.35	3761848.92	0.05015
439302.35	3761848.92	0.05438	439352.35	3761848.92	0.05922
439402.35	3761848.92	0.06495	439452.35	3761848.92	0.07160
439502.35	3761848.92	0.07940	439552.35	3761848.92	0.08885
439152.35	3761898.92	0.04462	439202.35	3761898.92	0.04808
439252.35	3761898.92	0.05202	439302.35		

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3761898.92        0.05664
         439352.35    3761898.92        0.06197                    439402.35
3761898.92        0.06824
         439452.35    3761898.92        0.07573                    439502.35
3761898.92        0.08466
         439552.35    3761898.92        0.09549                    439152.35
3761948.92        0.04588
         439202.35    3761948.92        0.04956                    439252.35
3761948.92        0.05379
         439302.35    3761948.92        0.05878                    439352.35
3761948.92        0.06460
         439402.35    3761948.92        0.07147                    439452.35
3761948.92        0.07978
         439502.35    3761948.92        0.08985                    439552.35
3761948.92        0.10224
         439152.35    3761998.92        0.04700                    439202.35
3761998.92        0.05089
         439252.35    3761998.92        0.05538                    439302.35
3761998.92        0.06072
         439352.35    3761998.92        0.06700                    439402.35
3761998.92        0.07446
         439452.35    3761998.92        0.08354                    439502.35
3761998.92        0.09471
         439552.35    3761998.92        0.10870                    439152.35
3762048.92        0.04793
         439202.35    3762048.92        0.05202                    439252.35
3762048.92        0.05677
         439302.35    3762048.92        0.06237                    439352.35
3762048.92        0.06902
         439402.35    3762048.92        0.07701                    439452.35
3762048.92        0.08680
         439502.35    3762048.92        0.09896                    439552.35
3762048.92        0.11438
         439616.61    3761420.65        0.05137                    439666.61
3761420.65        0.05395
         439716.61    3761420.65        0.05648                    439766.61
3761420.65        0.05891
         439816.61    3761420.65        0.06114                    439866.61
3761420.65        0.06323
         439616.61    3761470.65        0.05529                    439666.61
3761470.65        0.05837
         439716.61    3761470.65        0.06146                    439766.61
3761470.65        0.06447
         439816.61    3761470.65        0.06730                    439866.61
3761470.65        0.06998
         439616.61    3761520.65        0.05966                    439666.61
3761520.65        0.06339
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***

INCLUDING SOURCE(S): L0011686 , L0011687 , L0011688 , L0011689 , L0011690 , L0011691 , L0011692 , L0011693 , L0011694 , L0011695 , L0011696 , L0011697 , L0011698 , L0011699 , L0011700 , L0011701 , L0011702 , L0011703 , L0011704 , L0011705 , L0011706 , L0011707 , L0011708 , L0011709 , L0011710 , L0011711 , L0011712 , L0011713 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	0.06720	439766.61	3761520.65	0.07099
439816.61	3761520.65	0.07460	439866.61	3761520.65	0.07804
439616.61	3761570.65	0.06458	439666.61	3761570.65	0.06912
439716.61	3761570.65	0.07384	439766.61	3761570.65	0.07863
439816.61	3761570.65	0.08330	439866.61	3761570.65	0.08774
440451.14	3762893.83	0.09455	440501.14	3762893.83	0.09364
440551.14	3762893.83	0.09303	440601.14	3762893.83	0.09201
440651.14	3762893.83	0.09132	440701.14	3762893.83	0.09071
440751.14	3762893.83	0.09056	440801.14	3762893.83	0.08961
440851.14	3762893.83	0.08905	440451.14	3762943.83	0.07941
440501.14	3762943.83	0.07806	440551.14	3762943.83	0.07744
440601.14	3762943.83	0.07646	440651.14	3762943.83	0.07627
440701.14	3762943.83	0.07618	440751.14	3762943.83	0.07668

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         440801.14    3762943.83        0.07561                    440851.14
3762943.83        0.07456
         441116.67    3763135.31        0.04362                    441166.67
3763135.31        0.04347
         441116.67    3763185.31        0.03927                    441166.67
3763185.31        0.03925
         441116.67    3763235.31        0.03561                    441166.67
3763235.31        0.03563
         441116.67    3763285.31        0.03229                    441166.67
3763285.31        0.03245
         441116.67    3763335.31        0.02953                    441166.67
3763335.31        0.02963
         441116.67    3763385.31        0.02719                    441166.67
3763385.31        0.02719
         441116.67    3763435.31        0.02514                    441166.67
3763435.31        0.02516
         440433.43    3762815.13        0.13355                    440483.43
3762815.13        0.13190
         440533.43    3762815.13        0.13081                    440583.43
3762815.13        0.12902
         440633.43    3762815.13        0.12764                    440683.43
3762815.13        0.12573
         440733.43    3762815.13        0.12295                    440783.43
3762815.13        0.12015
         440833.43    3762815.13        0.11621                    440883.43
3762815.13        0.11224
         440933.43    3762815.13        0.10854                    440983.43
3762815.13        0.10433
         440433.43    3762865.13        0.10684                    440483.43
3762865.13        0.10569
         440533.43    3762865.13        0.10504                    440583.43
3762865.13        0.10405
         440633.43    3762865.13        0.10277                    440683.43
3762865.13        0.10234
         440733.43    3762865.13        0.10094                    440783.43
3762865.13        0.09994
         440833.43    3762865.13        0.09848                    440883.43
3762865.13        0.09643
         440933.43    3762865.13        0.09414                    440983.43
3762865.13        0.09123
         441118.27    3762686.02        0.11995                    441168.27
3762686.02        0.11185
         441118.27    3762736.02        0.10882                    441168.27
3762736.02        0.10265
         441118.27    3762786.02        0.09841                    441168.27
3762786.02        0.09343
         441118.27    3762836.02        0.08845                    441168.27
3762836.02        0.08463
         440411.67    3762093.41        2.15718                    440461.67
3762093.41        1.30698
         440511.67    3762093.41        0.91347                    440561.67
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):   L0011686   , L0011687
, L0011688   , L0011689   , L0011690   ,
                  L0011691   , L0011692   , L0011693   , L0011694   , L0011695
, L0011696   , L0011697   , L0011698   ,
                  L0011699   , L0011700   , L0011701   , L0011702   , L0011703
, L0011704   , L0011705   , L0011706   ,
                  L0011707   , L0011708   , L0011709   , L0011710   , L0011711
, L0011712   , L0011713   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         440461.67   3762143.41   1.76820   440511.67
3762143.41   1.17325
         440561.67   3762143.41   0.84859   440611.67
3762143.41   0.64702
         440406.61   3762008.86   0.82617   440456.61
3762008.86   0.66138
         440506.61   3762008.86   0.53600   440556.61
3762008.86   0.44151
         440606.61   3762008.86   0.36933   440656.61
3762008.86   0.31330
         440706.61   3762008.86   0.26913   440756.61
3762008.86   0.23379
         440806.61   3762008.86   0.20523   440856.61
3762008.86   0.18171
         440906.61   3762008.86   0.16214   440956.61
3762008.86   0.14579
         441006.61   3762008.86   0.13193   441056.61
3762008.86   0.12011
         441106.61   3762008.86   0.10990   441156.61

3762008.86 0.10104
  440406.61 3762058.86 1.43960 440456.61
3762058.86 1.00958
  440506.61 3762058.86 0.75238 440556.61
3762058.86 0.58562
  440606.61 3762058.86 0.47043 440656.61
3762058.86 0.38697
  440706.61 3762058.86 0.32436 440756.61
3762058.86 0.27632
  440806.61 3762058.86 0.23884 440856.61
3762058.86 0.20864
  440906.61 3762058.86 0.18404 440956.61
3762058.86 0.16384
  441006.61 3762058.86 0.14699 441056.61
3762058.86 0.13276
  441106.61 3762058.86 0.12063 441156.61
3762058.86 0.11021

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 ,
L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 ,
L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 ,
L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.23582	439943.36	3761716.33	2.22371
439170.17	3763092.51	0.11464	439220.17	3763092.51	0.12184
439270.17	3763092.51	0.13081	439320.17		

```
3763092.51        0.14064
         439370.17    3763092.51        0.15242                    439420.17
3763092.51        0.16677
         439470.17    3763092.51        0.18438                    439520.17
3763092.51        0.20558
         439570.17    3763092.51        0.23255                    439620.17
3763092.51        0.26762
         439670.17    3763092.51        0.31682                    439720.17
3763092.51        0.39331
         439770.17    3763092.51        0.52779                    439820.17
3763092.51        0.82767
         439870.17    3763092.51        2.01033                    439170.17
3763142.51        0.10980
         439220.17    3763142.51        0.11660                    439270.17
3763142.51        0.12495
         439320.17    3763142.51        0.13391                    439370.17
3763142.51        0.14477
         439420.17    3763142.51        0.15802                    439470.17
3763142.51        0.17325
         439520.17    3763142.51        0.19234                    439570.17
3763142.51        0.21767
         439620.17    3763142.51        0.25101                    439670.17
3763142.51        0.29740
         439720.17    3763142.51        0.37048                    439770.17
3763142.51        0.50055
         439820.17    3763142.51        0.79452                    439870.17
3763142.51        1.96274
         439170.17    3763192.51        0.10511                    439220.17
3763192.51        0.11154
         439270.17    3763192.51        0.11922                    439320.17
3763192.51        0.12726
         439370.17    3763192.51        0.13726                    439420.17
3763192.51        0.14941
         439470.17    3763192.51        0.16318                    439520.17
3763192.51        0.18076
         439570.17    3763192.51        0.20370                    439620.17
3763192.51        0.23492
         439670.17    3763192.51        0.27846                    439720.17
3763192.51        0.34736
         439770.17    3763192.51        0.47312                    439820.17
3763192.51        0.76280
         439870.17    3763192.51        1.91865                    439170.17
3763242.51        0.10049
         439220.17    3763242.51        0.10645                    439270.17
3763242.51        0.11341
         439320.17    3763242.51        0.12104                    439370.17
3763242.51        0.13006
         439420.17    3763242.51        0.14070                    439470.17
3763242.51        0.15317
         439520.17    3763242.51        0.16921                    439570.17
3763242.51        0.19023
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         439620.17    3763242.51        0.21905                      439670.17
3763242.51        0.26020
         439720.17    3763242.51        0.32580                      439770.17
3763242.51        0.44750
         439820.17    3763242.51        0.73167                      439870.17
3763242.51        1.87478
         439170.17    3763292.51        0.09577                      439220.17
3763292.51        0.10068
         439270.17    3763292.51        0.10683                      439320.17
3763292.51        0.11406
         439370.17    3763292.51        0.12260                      439420.17
3763292.51        0.13165
         439470.17    3763292.51        0.14279                      439520.17
3763292.51        0.15691
         439570.17    3763292.51        0.17652                      439620.17
3763292.51        0.20238
         439670.17    3763292.51        0.24074                      439720.17
3763292.51        0.30230
         439770.17    3763292.51        0.41739                      439820.17
3763292.51        0.69546
         439870.17    3763292.51        1.82638                      439170.17
3763342.51        0.09116
         439220.17    3763342.51        0.09567                      439270.17
3763342.51        0.10161
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       17:25:05

                                PAGE  1162
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                    INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                 L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
                 L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                 L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
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3762911.16   0.27646
         439203.20   3762961.16   0.13299   439253.20
3762961.16   0.14331
         439303.20   3762961.16   0.15497   439353.20
3762961.16   0.16924
         439403.20   3762961.16   0.18606   439453.20
3762961.16   0.20579
         439503.20   3762961.16   0.23067   439553.20
3762961.16   0.26128
         439203.20   3763011.16   0.12774   439253.20
3763011.16   0.13725
         439303.20   3763011.16   0.14812   439353.20
3763011.16   0.16079
         439403.20   3763011.16   0.17724   439453.20
3763011.16   0.19538
         439503.20   3763011.16   0.21831   439553.20
3763011.16   0.24616
         439203.20   3763061.16   0.12260   439253.20
3763061.16   0.13108
         439303.20   3763061.16   0.14107   439353.20
3763061.16   0.15273
         439403.20   3763061.16   0.16696   439453.20
3763061.16   0.18417
         439503.20   3763061.16   0.20530   439553.20
3763061.16   0.23110
         439196.01   3762392.48   0.16879   439246.01
3762392.48   0.18492
         439296.01   3762392.48   0.20395   439346.01
3762392.48   0.22665
         439396.01   3762392.48   0.25406   439446.01
3762392.48   0.28770

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0012164   , L0012165
, L0012166   , L0012167   , L0012168   ,
                  L0012169   , L0012170   , L0012171   , L0012172   , L0012173
, L0012174   , L0012175   , L0012176   ,
                  L0012177   , L0012178   , L0012179   , L0012180   , L0012181
, L0012182   , L0012183   , L0012184   ,
                  L0012185   , L0012186   , L0012187   , L0012188   , L0012189
, L0012190   , L0012191   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	0.32947	439546.01	3762392.48	0.38250
439196.01	3762442.48	0.16793	439246.01	3762442.48	0.18390
439296.01	3762442.48	0.20260	439346.01	3762442.48	0.22498
439396.01	3762442.48	0.25195	439446.01	3762442.48	0.28491
439496.01	3762442.48	0.32598	439546.01	3762442.48	0.37815
439196.01	3762492.48	0.16653	439246.01	3762492.48	0.18228
439296.01	3762492.48	0.20069	439346.01	3762492.48	0.22255
439396.01	3762492.48	0.24901	439446.01	3762492.48	0.28133
439496.01	3762492.48	0.32121	439546.01	3762492.48	0.37194
439196.01	3762542.48	0.16462	439246.01	3762542.48	0.18007
439296.01	3762542.48	0.19808	439346.01	3762542.48	0.21952
439396.01	3762542.48	0.24520	439446.01	3762542.48	0.27659
439496.01	3762542.48	0.31522	439546.01	3762542.48	0.36457
439196.01	3762592.48	0.16221	439246.01	3762592.48	0.17709
439296.01	3762592.48	0.19465	439346.01	3762592.48	0.21552
439396.01	3762592.48	0.24051	439446.01	3762592.48	0.27081
439496.01	3762592.48	0.30805	439546.01	3762592.48	0.35572
439196.01	3762642.48	0.15933	439246.01	3762642.48	0.17360
439296.01	3762642.48	0.19079	439346.01	3762642.48	0.21100
439396.01	3762642.48	0.23496	439446.01	3762642.48	0.26407
439496.01	3762642.48	0.29971	439546.01	3762642.48	0.34528

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         439196.01    3762692.48        0.15574                      439246.01
3762692.48        0.16961
         439296.01    3762692.48        0.18563                      439346.01
3762692.48        0.20509
         439396.01    3762692.48        0.22855                      439446.01
3762692.48        0.25636
         439496.01    3762692.48        0.28999                      439546.01
3762692.48        0.33338
         439196.01    3762742.48        0.15163                      439246.01
3762742.48        0.16522
         439296.01    3762742.48        0.18052                      439346.01
3762742.48        0.19894
         439396.01    3762742.48        0.22087                      439446.01
3762742.48        0.24728
         439496.01    3762742.48        0.27897                      439546.01
3762742.48        0.32011
         439196.01    3762792.48        0.14719                      439246.01
3762792.48        0.16056
         439296.01    3762792.48        0.17482                      439346.01
3762792.48        0.19197
         439396.01    3762792.48        0.21253                      439446.01
3762792.48        0.23764
         439496.01    3762792.48        0.26751                      439546.01
3762792.48        0.30609
         439196.01    3762842.48        0.14278                      439246.01
3762842.48        0.15520
         439296.01    3762842.48        0.16907                      439346.01
3762842.48        0.18528
         439396.01    3762842.48        0.20442                      439446.01
3762842.48        0.22770
         439496.01    3762842.48        0.25560                      439546.01
3762842.48        0.29143
         439573.31    3762470.54        0.40942                      439623.31
3762470.54        0.48766
         439673.31    3762470.54        0.59601                      439723.31
3762470.54        0.75582
         439773.31    3762470.54        1.01640                      439823.31
3762470.54        1.54065
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1164
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                L0012169    , L0012170    , L0012171    , L0012172    , L0012173
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, L0012174    , L0012175    , L0012176    ,
                L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         439873.31    3762470.54        3.37957                       439573.31
3762520.54        0.40160
         439623.31    3762520.54        0.47791                       439673.31
3762520.54        0.58323
         439723.31    3762520.54        0.73854                       439773.31
3762520.54        0.99376
         439823.31    3762520.54        1.51094                       439873.31
3762520.54        3.32499
         439573.31    3762570.54        0.39222                       439623.31
3762570.54        0.46598
         439673.31    3762570.54        0.56794                       439723.31
3762570.54        0.71903
         439773.31    3762570.54        0.96857                       439823.31
3762570.54        1.47516
         439873.31    3762570.54        3.26207                       439573.31
3762620.54        0.38129
         439623.31    3762620.54        0.45198                       439673.31
3762620.54        0.55067
         439723.31    3762620.54        0.69659                       439773.31
3762620.54        0.93973
         439823.31    3762620.54        1.43457                       439873.31
3762620.54        3.19192
         439573.31    3762670.54        0.36858                       439623.31
3762670.54        0.43505
         439673.31    3762670.54        0.52980                       439723.31
3762670.54        0.67086
         439773.31    3762670.54        0.90484                       439823.31
3762670.54        1.38912
         439873.31    3762670.54        3.12023                       439152.35
3761448.92        0.10077
         439202.35    3761448.92        0.10634                       439252.35
3761448.92        0.11265
         439302.35    3761448.92        0.11969                       439352.35
3761448.92        0.12766
         439402.35    3761448.92        0.13676                       439452.35
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3761448.92        0.14730
         439502.35    3761448.92        0.15989                    439552.35
3761448.92        0.17512
         439152.35    3761498.92        0.10481                    439202.35
3761498.92        0.11103
         439252.35    3761498.92        0.11806                    439302.35
3761498.92        0.12580
         439352.35    3761498.92        0.13465                    439402.35
3761498.92        0.14490
         439452.35    3761498.92        0.15693                    439502.35
3761498.92        0.17157
         439552.35    3761498.92        0.18964                    439152.35
3761548.92        0.10891
         439202.35    3761548.92        0.11567                    439252.35
3761548.92        0.12332
         439302.35    3761548.92        0.13187                    439352.35
3761548.92        0.14166
         439402.35    3761548.92        0.15319                    439452.35
3761548.92        0.16682
         439502.35    3761548.92        0.18340                    439552.35
3761548.92        0.20425
         439152.35    3761598.92        0.11304                    439202.35
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         439252.35    3761598.92        0.12865                    439302.35
3761598.92        0.13810
         439352.35    3761598.92        0.14889                    439402.35
3761598.92        0.16169
         439452.35    3761598.92        0.17694                    439502.35
3761598.92        0.19542
         439552.35    3761598.92        0.21888                    439152.35
3761648.92        0.11716
         439202.35    3761648.92        0.12506                    439252.35
3761648.92        0.13408
         439302.35    3761648.92        0.14441                    439352.35
3761648.92        0.15629
         439402.35    3761648.92        0.17033                    439452.35
3761648.92        0.18709
         439502.35    3761648.92        0.20762                    439552.35
3761648.92        0.23346
         439152.35    3761698.92        0.12129                    439202.35
3761698.92        0.12976
         439252.35    3761698.92        0.13942                    439302.35
3761698.92        0.15062
         439352.35    3761698.92        0.16365                    439402.35
3761698.92        0.17903
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 , L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 , L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 , L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	0.19718	439502.35	3761698.92	0.21969
439552.35	3761698.92	0.24790	439152.35	3761748.92	0.12537
439202.35	3761748.92	0.13448	439252.35	3761748.92	0.14480
439302.35	3761748.92	0.15688	439352.35	3761748.92	0.17091
439402.35	3761748.92	0.18751	439452.35	3761748.92	0.20732
439502.35	3761748.92	0.23152	439552.35	3761748.92	0.26216
439152.35	3761798.92	0.12944	439202.35	3761798.92	0.13918
439252.35	3761798.92	0.15028	439302.35	3761798.92	0.16324
439352.35	3761798.92	0.17823	439402.35	3761798.92	0.19607
439452.35	3761798.92	0.21762	439502.35	3761798.92	0.24369
439552.35	3761798.92	0.27679	439152.35	3761848.92	0.13346
439202.35	3761848.92	0.14380	439252.35	3761848.92	0.15561
439302.35	3761848.92	0.16941	439352.35	3761848.92	0.18547
439402.35	3761848.92	0.20478	439452.35	3761848.92	0.22789

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         439502.35    3761848.92        0.25601                    439552.35
3761848.92        0.29174
         439152.35    3761898.92        0.13740                    439202.35
3761898.92        0.14832
         439252.35    3761898.92        0.16086                    439302.35
3761898.92        0.17562
         439352.35    3761898.92        0.19286                    439402.35
3761898.92        0.21339
         439452.35    3761898.92        0.23832                    439502.35
3761898.92        0.26884
         439552.35    3761898.92        0.30722                    439152.35
3761948.92        0.14113
         439202.35    3761948.92        0.15264                    439252.35
3761948.92        0.16590
         439302.35    3761948.92        0.18157                    439352.35
3761948.92        0.19996
         439402.35    3761948.92        0.22186                    439452.35
3761948.92        0.24855
         439502.35    3761948.92        0.28140                    439552.35
3761948.92        0.32281
         439152.35    3761998.92        0.14461                    439202.35
3761998.92        0.15667
         439252.35    3761998.92        0.17062                    439302.35
3761998.92        0.18717
         439352.35    3761998.92        0.20668                    439402.35
3761998.92        0.22995
         439452.35    3761998.92        0.25838                    439502.35
3761998.92        0.29360
         439552.35    3761998.92        0.33824                    439152.35
3762048.92        0.14776
         439202.35    3762048.92        0.16039                    439252.35
3762048.92        0.17508
         439302.35    3762048.92        0.19233                    439352.35
3762048.92        0.21281
         439402.35    3762048.92        0.23743                    439452.35
3762048.92        0.26757
         439502.35    3762048.92        0.30507                    439552.35
3762048.92        0.35284
         439616.61    3761420.65        0.18992                    439666.61
3761420.65        0.21460
         439716.61    3761420.65        0.25040                    439766.61
3761420.65        0.30920
         439816.61    3761420.65        0.42512                    439866.61
3761420.65        0.69294
         439616.61    3761470.65        0.20977                    439666.61
3761470.65        0.24208
         439716.61    3761470.65        0.29273                    439766.61
3761470.65        0.38763
         439816.61    3761470.65        0.63632                    439866.61
3761470.65        2.15058
         439616.61    3761520.65        0.22991                    439666.61
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 , L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 , L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 , L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	0.33333	439766.61	3761520.65	0.45696
439816.61	3761520.65	0.78619	439866.61	3761520.65	2.57491
439616.61	3761570.65	0.24962	439666.61	3761570.65	0.29514
439716.61	3761570.65	0.36822	439766.61	3761570.65	0.50694
439816.61	3761570.65	0.85953	439866.61	3761570.65	2.63794
440451.14	3762893.83	0.93875	440501.14	3762893.83	0.76891
440551.14	3762893.83	0.65430	440601.14	3762893.83	0.56972
440651.14	3762893.83	0.50570	440701.14	3762893.83	0.45534
440751.14	3762893.83	0.41576	440801.14	3762893.83	0.38182
440851.14	3762893.83	0.35407	440451.14	3762943.83	0.69221
440501.14	3762943.83	0.61036	440551.14		

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3762943.83        0.54317
         440601.14    3762943.83        0.48596                    440651.14
3762943.83        0.44058
         440701.14    3762943.83        0.40291                    440751.14
3762943.83        0.37262
         440801.14    3762943.83        0.34381                    440851.14
3762943.83        0.31907
         441116.67    3763135.31        0.17270                    441166.67
3763135.31        0.16670
         441116.67    3763185.31        0.15944                    441166.67
3763185.31        0.15453
         441116.67    3763235.31        0.14741                    441166.67
3763235.31        0.14328
         441116.67    3763285.31        0.13568                    441166.67
3763285.31        0.13262
         441116.67    3763335.31        0.12526                    441166.67
3763335.31        0.12260
         441116.67    3763385.31        0.11593                    441166.67
3763385.31        0.11343
         441116.67    3763435.31        0.10739                    441166.67
3763435.31        0.10538
         440433.43    3762815.13        1.49382                    440483.43
3762815.13        1.09802
         440533.43    3762815.13        0.88016                    440583.43
3762815.13        0.73807
         440633.43    3762815.13        0.63888                    440683.43
3762815.13        0.56431
         440733.43    3762815.13        0.50513                    440783.43
3762815.13        0.45806
         440833.43    3762815.13        0.41753                    440883.43
3762815.13        0.38367
         440933.43    3762815.13        0.35543                    440983.43
3762815.13        0.33015
         440433.43    3762865.13        1.22852                    440483.43
3762865.13        0.93323
         440533.43    3762865.13        0.76422                    440583.43
3762865.13        0.65081
         440633.43    3762865.13        0.56821                    440683.43
3762865.13        0.50646
         440733.43    3762865.13        0.45655                    440783.43
3762865.13        0.41676
         440833.43    3762865.13        0.38365                    440883.43
3762865.13        0.35506
         440933.43    3762865.13        0.33030                    440983.43
3762865.13        0.30785
         441118.27    3762686.02        0.31324                    441168.27
3762686.02        0.29155
         441118.27    3762736.02        0.29820                    441168.27
3762736.02        0.27892
         441118.27    3762786.02        0.28346                    441168.27
3762786.02        0.26557
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                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0012164   , L0012165
, L0012166   , L0012167   , L0012168   ,
                  L0012169   , L0012170   , L0012171   , L0012172   , L0012173
, L0012174   , L0012175   , L0012176   ,
                  L0012177   , L0012178   , L0012179   , L0012180   , L0012181
, L0012182   , L0012183   , L0012184   ,
                  L0012185   , L0012186   , L0012187   , L0012188   , L0012189
, L0012190   , L0012191   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONSITE ***
INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 ,
L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 ,
L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 ,
L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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        440407.86   3761497.84       13.07487  (16121608)              439943.36
3761716.33       19.61250  (16122008)
        439170.17   3763092.51       11.75552  (13012508)              439220.17
3763092.51       12.56125  (13012508)
        439270.17   3763092.51       12.98501  (13012508)              439320.17
3763092.51       13.66056  (13012508)
        439370.17   3763092.51       14.42814  (16123008)              439420.17
3763092.51       15.12416  (16123008)
        439470.17   3763092.51       15.59289  (16123008)              439520.17
3763092.51       16.45433  (16123008)
        439570.17   3763092.51       17.50285  (14022508)              439620.17
3763092.51       19.38379  (14022508)
        439670.17   3763092.51       21.34343  (14022508)              439720.17
3763092.51       22.72572  (14022508)
        439770.17   3763092.51       23.47646  (14022508)              439820.17
3763092.51       23.53913  (14022508)
        439870.17   3763092.51       22.90399  (12120608)              439170.17
3763142.51       11.93783  (13012508)
        439220.17   3763142.51       12.52785  (13012508)              439270.17
3763142.51       12.74956  (16123008)
        439320.17   3763142.51       13.88860  (16123008)              439370.17
3763142.51       14.67359  (16123008)
        439420.17   3763142.51       15.10207  (16123008)              439470.17
3763142.51       15.99270  (16123008)
        439520.17   3763142.51       17.01100  (14022508)              439570.17
3763142.51       18.00487  (14022508)
        439620.17   3763142.51       19.14931  (14022508)              439670.17
3763142.51       20.51608  (14022508)
        439720.17   3763142.51       21.24602  (14022508)              439770.17
3763142.51       21.35264  (14022508)
        439820.17   3763142.51       21.21122  (12120608)              439870.17
3763142.51       20.55278  (12122608)
        439170.17   3763192.51       11.81578  (13012508)              439220.17
3763192.51       12.49905  (16123008)
        439270.17   3763192.51       13.09153  (16123008)              439320.17
3763192.51       14.18372  (16123008)
        439370.17   3763192.51       14.67874  (16123008)              439420.17
3763192.51       14.86363  (16123008)
        439470.17   3763192.51       15.92117  (14022508)              439520.17
3763192.51       17.10117  (14022508)
        439570.17   3763192.51       17.98374  (14022508)              439620.17
3763192.51       18.56826  (14022508)
        439670.17   3763192.51       19.52392  (14022508)              439720.17
3763192.51       20.59899  (12120608)
        439770.17   3763192.51       20.63550  (12120608)              439820.17
3763192.51       20.47792  (12122608)
        439870.17   3763192.51       20.81012  (12122608)              439170.17
3763242.51       12.14443  (16123008)
        439220.17   3763242.51       12.92609  (16123008)              439270.17
3763242.51       13.35925  (16123008)
        439320.17   3763242.51       13.97334  (16123008)              439370.17
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3763242.51       14.31136  (16123008)
        439420.17   3763242.51       14.92296  (14022508)               439470.17
3763242.51       16.22443  (14022508)
        439520.17   3763242.51       17.05255  (14022508)               439570.17
3763242.51       17.53782  (14022508)
        439620.17   3763242.51       17.69804  (14022508)               439670.17
3763242.51       18.23666  (12120608)
        439720.17   3763242.51       18.99582  (12120608)               439770.17
3763242.51       19.32017  (12122608)
        439820.17   3763242.51       21.36393  (12122608)               439870.17
3763242.51       22.35190  (12122608)
        439170.17   3763292.51       12.70542  (16123008)               439220.17
3763292.51       13.76877  (16123008)
        439270.17   3763292.51       14.27505  (16123008)               439320.17
3763292.51       14.33544  (16123008)
        439370.17   3763292.51       14.33806  (14022508)               439420.17
3763292.51       15.63908  (14022508)
        439470.17   3763292.51       16.73739  (14022508)               439520.17
3763292.51       17.43886  (14022508)
        439570.17   3763292.51       17.23034  (12120608)               439620.17
3763292.51       17.64816  (12120608)
        439670.17   3763292.51       17.62630  (12120608)               439720.17
3763292.51       17.92584  (12120608)
        439770.17   3763292.51       21.07253  (12122608)               439820.17
3763292.51       22.57727  (12122608)
        439870.17   3763292.51       23.01345  (12122608)               439170.17
3763342.51       13.15285  (16123008)
        439220.17   3763342.51       13.95523  (16123008)               439270.17
3763342.51       13.82201  (16123008)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1169
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONSITE ***
                                    INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                  L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
                  L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                  L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	13.87334	(16123008)	439370.17	3763342.51	14.59899	(14022508)
439420.17	3763342.51	15.61735	(14022508)	439470.17	3763342.51	16.45607	(14022508)
439520.17	3763342.51	17.26525	(12120608)	439570.17	3763342.51	17.27504	(12120608)
439620.17	3763342.51	16.76839	(12120608)	439670.17	3763342.51	16.68636	(12120608)
439720.17	3763342.51	17.47476	(12122608)	439770.17	3763342.51	21.34608	(12122608)
439820.17	3763342.51	22.53867	(12122608)	439870.17	3763342.51	22.44797	(12122608)
439170.17	3763392.51	13.40770	(16123008)	439220.17	3763392.51	13.93616	(16123008)
439270.17	3763392.51	13.52453	(16123008)	439320.17	3763392.51	14.42610	(14022508)
439370.17	3763392.51	15.16059	(14022508)	439420.17	3763392.51	16.10885	(14022508)
439470.17	3763392.51	17.16575	(12120608)	439520.17	3763392.51	17.20042	(12120608)
439570.17	3763392.51	16.88716	(12120608)	439620.17	3763392.51	16.10795	(12120608)
439670.17	3763392.51	16.34548	(12120608)	439720.17	3763392.51	18.10660	(12122608)
439770.17	3763392.51	20.73997	(12122608)	439820.17	3763392.51	21.67710	(12122608)
439870.17	3763392.51	21.41671	(12122608)	439170.17	3763442.51	13.49145	(16123008)
439220.17	3763442.51	13.76345	(16123008)	439270.17	3763442.51	13.65853	(14022508)
439320.17	3763442.51	14.55934	(14022508)	439370.17	3763442.51	15.31558	(14022508)
439420.17	3763442.51	16.01503	(12120608)	439470.17	3763442.51	16.96958	(12120608)
439520.17	3763442.51	16.82117	(12120608)	439570.17	3763442.51	16.68850	(12120608)
439620.17	3763442.51	15.74976	(12120608)	439670.17	3763442.51	16.35592	(12122608)
439720.17	3763442.51	18.70293	(12122608)	439770.17	3763442.51	20.37317	(12122608)
439820.17	3763442.51	20.89335	(12122608)	439870.17	3763442.51	20.26084	(12122608)
439203.20	3762911.16	11.93138	(12112808)	439253.20	3762911.16	12.51017	(12112808)

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        439303.20   3762911.16       13.15872  (12112808)                439353.20
3762911.16       13.99724  (12112808)
        439403.20   3762911.16       14.77615  (12112808)                439453.20
3762911.16       15.60167  (12112808)
        439503.20   3762911.16       16.58075  (12112808)                439553.20
3762911.16       17.93694  (13012508)
        439203.20   3762961.16       11.63325  (12112808)                439253.20
3762961.16       12.14264  (12112808)
        439303.20   3762961.16       12.87525  (13012508)                439353.20
3762961.16       13.58461  (13012508)
        439403.20   3762961.16       14.44039  (13012508)                439453.20
3762961.16       15.51629  (13012508)
        439503.20   3762961.16       16.66934  (13012508)                439553.20
3762961.16       18.00049  (13012508)
        439203.20   3763011.16       11.83338  (13012508)                439253.20
3763011.16       12.55037  (13012508)
        439303.20   3763011.16       13.31652  (13012508)                439353.20
3763011.16       14.05720  (13012508)
        439403.20   3763011.16       14.56092  (13012508)                439453.20
3763011.16       15.49652  (13012508)
        439503.20   3763011.16       16.48149  (13012508)                439553.20
3763011.16       17.58887  (13012508)
        439203.20   3763061.16       12.11059  (13012508)                439253.20
3763061.16       12.90424  (13012508)
        439303.20   3763061.16       13.55023  (13012508)                439353.20
3763061.16       14.23748  (13012508)
        439403.20   3763061.16       14.70908  (16123008)                439453.20
3763061.16       15.39918  (16123008)
        439503.20   3763061.16       16.13211  (16123008)                439553.20
3763061.16       17.31404  (16123008)
        439196.01   3762392.48       10.81801  (14120908)                439246.01
3762392.48       11.41974  (14120908)
        439296.01   3762392.48       12.10146  (16011208)                439346.01
3762392.48       12.97601  (16011208)
        439396.01   3762392.48       13.92022  (16011208)                439446.01
3762392.48       14.93767  (16011208)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                PAGE  1170
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONSITE ***
                                    INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                 L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
                 L0012177    , L0012178    , L0012179    , L0012180    , L0012181
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, L0012182 , L0012183 , L0012184 ,
L0012185 , L0012186 , L0012187 , L0012188 , L0012189
, L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	16.31326	(16112908)	439546.01	3762392.48	18.20437	(16112908)
439196.01	3762442.48	11.58725	(14120908)	439246.01	3762442.48	12.20135	(14120908)
439296.01	3762442.48	12.89096	(14120908)	439346.01	3762442.48	13.63998	(14120908)
439396.01	3762442.48	14.47564	(14120908)	439446.01	3762442.48	15.41785	(14120908)
439496.01	3762442.48	16.48035	(14120908)	439546.01	3762442.48	17.69884	(14120908)
439196.01	3762492.48	12.16380	(14120908)	439246.01	3762492.48	12.78299	(14120908)
439296.01	3762492.48	13.47760	(14120908)	439346.01	3762492.48	14.24344	(14120908)
439396.01	3762492.48	15.08119	(14120908)	439446.01	3762492.48	16.01992	(14120908)
439496.01	3762492.48	17.11426	(14120908)	439546.01	3762492.48	18.36230	(14120908)
439196.01	3762542.48	12.55937	(14120908)	439246.01	3762542.48	13.18439	(14120908)
439296.01	3762542.48	13.88743	(14120908)	439346.01	3762542.48	14.65404	(14120908)
439396.01	3762542.48	15.51981	(14120908)	439446.01	3762542.48	16.48446	(14120908)
439496.01	3762542.48	17.61608	(14120908)	439546.01	3762542.48	18.88725	(14120908)
439196.01	3762592.48	12.75918	(14120908)	439246.01	3762592.48	13.41981	(14120908)
439296.01	3762592.48	14.13249	(14120908)	439346.01	3762592.48	14.91140	(14120908)
439396.01	3762592.48	15.78675	(14120908)	439446.01	3762592.48	16.78833	(14120908)
439496.01	3762592.48	17.96685	(14120908)	439546.01	3762592.48	19.27726	(14120908)
439196.01	3762642.48	12.72938	(14120908)	439246.01	3762642.48	13.40520	(14120908)
439296.01	3762642.48	14.11649	(14120908)	439346.01			

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3762642.48       14.90237  (14120908)
        439396.01   3762642.48       15.81886  (14120908)                439446.01
3762642.48       16.85787  (14120908)
        439496.01   3762642.48       18.07754  (14120908)                439546.01
3762642.48       19.43473  (14120908)
        439196.01   3762692.48       12.41847  (14120908)                439246.01
3762692.48       13.08257  (14120908)
        439296.01   3762692.48       13.82457  (14120908)                439346.01
3762692.48       14.63895  (14120908)
        439396.01   3762692.48       15.52438  (14120908)                439446.01
3762692.48       16.57729  (14120908)
        439496.01   3762692.48       17.82364  (14120908)                439546.01
3762692.48       19.21732  (14120908)
        439196.01   3762742.48       11.77935  (14120908)                439246.01
3762742.48       12.40153  (14120908)
        439296.01   3762742.48       13.11268  (14120908)                439346.01
3762742.48       13.89637  (14120908)
        439396.01   3762742.48       14.78537  (14120908)                439446.01
3762742.48       15.80625  (14120908)
        439496.01   3762742.48       17.02415  (14120908)                439546.01
3762742.48       18.40140  (14120908)
        439196.01   3762792.48       11.51081  (12112808)                439246.01
3762792.48       12.25352  (12112808)
        439296.01   3762792.48       13.03837  (12112808)                439346.01
3762792.48       13.89763  (12112808)
        439396.01   3762792.48       14.84710  (12112808)                439446.01
3762792.48       15.90539  (12112808)
        439496.01   3762792.48       17.10484  (12112808)                439546.01
3762792.48       18.48396  (12112808)
        439196.01   3762842.48       11.81001  (12112808)                439246.01
3762842.48       12.52597  (12112808)
        439296.01   3762842.48       13.28123  (12112808)                439346.01
3762842.48       14.10591  (12112808)
        439396.01   3762842.48       15.01702  (12112808)                439446.01
3762842.48       16.03042  (12112808)
        439496.01   3762842.48       17.15711  (12112808)                439546.01
3762842.48       18.46319  (12112808)
        439573.31   3762470.54       18.81303  (14120908)                439623.31
3762470.54       20.42168  (14120908)
        439673.31   3762470.54       22.76430  (16112908)                439723.31
3762470.54       25.95724  (16112908)
        439773.31   3762470.54       29.82108  (16112908)                439823.31
3762470.54       34.66343  (16112908)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       17:25:05

                                PAGE  1171
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONSITE ***
INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 ,
L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 ,
L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 ,
L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	42.23066	(13021208)	439573.31	3762520.54	19.41978	(14120908)
439623.31	3762520.54	21.05920	(14120908)	439673.31	3762520.54	23.07998	(14120908)
439723.31	3762520.54	25.62103	(14120908)	439773.31	3762520.54	28.90286	(14120908)
439823.31	3762520.54	33.64940	(13122508)	439873.31	3762520.54	41.22747	(13122508)
439573.31	3762570.54	19.90677	(14120908)	439623.31	3762570.54	21.60191	(14120908)
439673.31	3762570.54	23.67663	(14120908)	439723.31	3762570.54	26.24165	(14120908)
439773.31	3762570.54	29.52691	(14120908)	439823.31	3762570.54	33.89896	(14120908)
439873.31	3762570.54	40.64264	(14120908)	439573.31	3762620.54	20.20854	(14120908)
439623.31	3762620.54	21.94656	(14120908)	439673.31	3762620.54	24.02381	(14120908)
439723.31	3762620.54	26.60799	(14120908)	439773.31	3762620.54	29.85074	(14120908)
439823.31	3762620.54	34.23355	(14120908)	439873.31	3762620.54	41.01094	(14120908)
439573.31	3762670.54	20.20622	(14120908)	439623.31	3762670.54	22.03660	(14120908)
439673.31	3762670.54	24.13999	(14120908)	439723.31	3762670.54	26.72803	(14120908)
439773.31	3762670.54	30.06027	(14120908)	439823.31	3762670.54	34.47164	(14120908)
439873.31	3762670.54	40.80915	(14120908)	439152.35	3761448.92	8.77397	(16011108)

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        439202.35   3761448.92        9.25066  (16011108)               439252.35
3761448.92        9.65453  (16011108)
        439302.35   3761448.92       10.04055  (13112508)               439352.35
3761448.92       10.46712  (13112508)
        439402.35   3761448.92       10.66534  (13112508)               439452.35
3761448.92       10.58853  (13112508)
        439502.35   3761448.92       11.44986  (15012208)               439552.35
3761448.92       11.98610  (15012208)
        439152.35   3761498.92        8.79995  (16020908)               439202.35
3761498.92        9.37559  (16011108)
        439252.35   3761498.92        9.99316  (16011108)               439302.35
3761498.92       10.36038  (16011108)
        439352.35   3761498.92       10.79547  (13112508)               439402.35
3761498.92       11.19287  (13112508)
        439452.35   3761498.92       11.32262  (13112508)               439502.35
3761498.92       11.63996  (15012208)
        439552.35   3761498.92       12.44486  (15012208)               439152.35
3761548.92        9.26141  (16012708)
        439202.35   3761548.92        9.36595  (16020908)               439252.35
3761548.92       10.05027  (16011108)
        439302.35   3761548.92       10.60705  (16011108)               439352.35
3761548.92       10.98580  (16011108)
        439402.35   3761548.92       11.57372  (13112508)               439452.35
3761548.92       11.96828  (13112508)
        439502.35   3761548.92       12.05737  (13112508)               439552.35
3761548.92       12.76295  (15012208)
        439152.35   3761598.92        9.73406  (16012708)               439202.35
3761598.92        9.86361  (16012708)
        439252.35   3761598.92        9.99043  (16020908)               439302.35
3761598.92       10.73164  (16011108)
        439352.35   3761598.92       11.31981  (16011108)               439402.35
3761598.92       11.82592  (13112508)
        439452.35   3761598.92       12.51101  (13112508)               439502.35
3761598.92       12.86231  (13112508)
        439552.35   3761598.92       12.98616  (15012208)               439152.35
3761648.92       10.03722  (16012708)
        439202.35   3761648.92       10.35976  (16012708)               439252.35
3761648.92       10.57123  (16012708)
        439302.35   3761648.92       10.70677  (16020908)               439352.35
3761648.92       11.53851  (16011108)
        439402.35   3761648.92       12.26986  (16011108)               439452.35
3761648.92       12.87142  (13112508)
        439502.35   3761648.92       13.58556  (13112508)               439552.35
3761648.92       13.94049  (13112508)
        439152.35   3761698.92       10.16655  (16012708)               439202.35
3761698.92       10.66202  (16012708)
        439252.35   3761698.92       11.04736  (16012708)               439302.35
3761698.92       11.32741  (16012708)
        439352.35   3761698.92       11.52786  (16011108)               439402.35
3761698.92       12.54844  (16011108)
♠ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONSITE ***
INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 , L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 , L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 , L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	13.25215	(16011108)	439502.35	3761698.92	14.06508	(13112508)
439552.35	3761698.92	14.82017	(13112508)	439152.35	3761748.92	10.09399	(16012708)
439202.35	3761748.92	10.77317	(16012708)	439252.35	3761748.92	11.33379	(16012708)
439302.35	3761748.92	11.85068	(16012708)	439352.35	3761748.92	12.20302	(16012708)
439402.35	3761748.92	12.45607	(16011108)	439452.35	3761748.92	13.50626	(16011108)
439502.35	3761748.92	14.33593	(16011108)	439552.35	3761748.92	15.36625	(13112508)
439152.35	3761798.92	9.95010	(13021208)	439202.35	3761798.92	10.68321	(16012708)
439252.35	3761798.92	11.44911	(16012708)	439302.35	3761798.92	12.19304	(16012708)
439352.35	3761798.92	12.75288	(16012708)	439402.35	3761798.92	13.19679	(16012708)
439452.35	3761798.92	13.56326	(16011108)	439502.35	3761798.92	14.66837	(16011108)
439552.35	3761798.92	15.77824	(16011108)	439152.35	3761848.92	10.53251	(13021208)
439202.35	3761848.92	10.77799	(13021208)	439252.35			

3761848.92 11.28729 (16012708)
439302.35 3761848.92 12.20356 (16012708) 439352.35
3761848.92 13.00192 (16012708)
439402.35 3761848.92 13.80455 (16012708) 439452.35
3761848.92 14.39110 (16012708)
439502.35 3761848.92 14.68331 (16011108) 439552.35
3761848.92 16.20781 (16011108)
439152.35 3761898.92 10.90971 (13021208) 439202.35
3761898.92 11.31449 (13021208)
439252.35 3761898.92 11.63535 (13021208) 439302.35
3761898.92 12.03920 (16012708)
439352.35 3761898.92 13.07471 (16012708) 439402.35
3761898.92 14.06509 (16012708)
439452.35 3761898.92 15.04744 (16012708) 439502.35
3761898.92 15.81541 (16012708)
439552.35 3761898.92 16.43477 (16011108) 439152.35
3761948.92 11.41022 (16112908)
439202.35 3761948.92 11.66226 (16112908) 439252.35
3761948.92 12.09162 (13021208)
439302.35 3761948.92 12.64177 (13021208) 439352.35
3761948.92 13.08500 (13021208)
439402.35 3761948.92 14.02470 (16012708) 439452.35
3761948.92 15.29672 (16012708)
439502.35 3761948.92 16.46997 (16012708) 439552.35
3761948.92 17.50895 (16012708)
439152.35 3761998.92 11.85547 (16112908) 439202.35
3761998.92 12.24966 (16112908)
439252.35 3761998.92 12.59569 (16112908) 439302.35
3761998.92 13.05886 (16112908)
439352.35 3761998.92 13.70579 (13021208) 439402.35
3761998.92 14.27159 (13021208)
439452.35 3761998.92 15.12839 (16012708) 439502.35
3761998.92 16.57507 (16012708)
439552.35 3761998.92 18.02683 (16012708) 439152.35
3762048.92 12.03663 (16112908)
439202.35 3762048.92 12.63224 (16112908) 439252.35
3762048.92 13.20821 (16112908)
439302.35 3762048.92 13.77885 (16112908) 439352.35
3762048.92 14.32861 (16112908)
439402.35 3762048.92 14.82834 (16112908) 439452.35
3762048.92 15.62874 (13021208)
439502.35 3762048.92 16.45855 (13021208) 439552.35
3762048.92 18.11417 (16012708)
439616.61 3761420.65 11.71932 (14120808) 439666.61
3761420.65 11.95942 (14120808)
439716.61 3761420.65 12.07002 (16020508) 439766.61
3761420.65 12.11881 (16020508)
439816.61 3761420.65 12.65883 (16122008) 439866.61
3761420.65 13.10172 (16122008)
439616.61 3761470.65 12.45426 (15012208) 439666.61
3761470.65 12.63552 (14120808)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONSITE ***
INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 ,
L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 ,
L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 ,
L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761470.65	12.64592	(16020508)	439766.61	3761470.65	12.90386	(16020508)
439816.61	3761470.65	13.20865	(16122008)	439866.61	3761470.65	13.86309	(16122008)
439616.61	3761520.65	13.21489	(15012208)	439666.61	3761520.65	13.28238	(14120808)
439716.61	3761520.65	13.52016	(14120808)	439766.61	3761520.65	13.73884	(16020508)
439816.61	3761520.65	13.83193	(16122008)	439866.61	3761520.65	14.69959	(16122008)
439616.61	3761570.65	13.93521	(15012208)	439666.61	3761570.65	14.20565	(15012208)
439716.61	3761570.65	14.43780	(14120808)	439766.61	3761570.65	14.58243	(16020508)
439816.61	3761570.65	14.72019	(16020508)	439866.61	3761570.65	15.58352	(16122008)
440451.14	3762893.83	31.51330	(13020508)	440501.14	3762893.83	28.65266	(13020508)
440551.14	3762893.83	26.23581	(13020508)	440601.14	3762893.83	24.16062	(13020508)
440651.14	3762893.83	22.43901	(13020508)	440701.14	3762893.83	20.97976	(13020508)

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        440751.14   3762893.83       19.65195  (13020508)               440801.14
3762893.83       18.47474  (13020508)
        440851.14   3762893.83       17.32081  (13020508)               440451.14
3762943.83       26.14303  (13121908)
        440501.14   3762943.83       24.53965  (14122508)               440551.14
3762943.83       22.98298  (14122508)
        440601.14   3762943.83       21.81309  (14122508)               440651.14
3762943.83       20.59679  (14122508)
        440701.14   3762943.83       19.50804  (13020508)               440751.14
3762943.83       18.63580  (13020508)
        440801.14   3762943.83       17.76813  (13020508)               440851.14
3762943.83       17.07780  (13020508)
        441116.67   3763135.31       14.50312  (14122508)               441166.67
3763135.31       13.50675  (14122508)
        441116.67   3763185.31       14.62261  (14122508)               441166.67
3763185.31       13.74575  (14122508)
        441116.67   3763235.31       14.07064  (14122508)               441166.67
3763235.31       13.59617  (14122508)
        441116.67   3763285.31       14.18407  (14122508)               441166.67
3763285.31       13.48681  (14122508)
        441116.67   3763335.31       13.36401  (14122508)               441166.67
3763335.31       13.22124  (14122508)
        441116.67   3763385.31       11.93173  (14122508)               441166.67
3763385.31       12.40397  (14122508)
        441116.67   3763435.31       10.33369  (14122508)               441166.67
3763435.31       10.95719  (14122508)
        440433.43   3762815.13       38.54294  (13111908)               440483.43
3762815.13       32.82097  (13020508)
        440533.43   3762815.13       29.21728  (13020508)               440583.43
3762815.13       26.34348  (13020508)
        440633.43   3762815.13       24.01349  (13020508)               440683.43
3762815.13       22.02626  (13020508)
        440733.43   3762815.13       20.31998  (13020508)               440783.43
3762815.13       18.94371  (14013108)
        440833.43   3762815.13       17.71802  (14013108)               440883.43
3762815.13       16.64793  (14013108)
        440933.43   3762815.13       15.66849  (14013108)               440983.43
3762815.13       14.77113  (14013108)
        440433.43   3762865.13       36.28040  (13020508)               440483.43
3762865.13       31.74516  (13020508)
        440533.43   3762865.13       28.41217  (13020508)               440583.43
3762865.13       25.79522  (13020508)
        440633.43   3762865.13       23.67636  (13020508)               440683.43
3762865.13       21.89461  (13020508)
        440733.43   3762865.13       20.37693  (13020508)               440783.43
3762865.13       19.00225  (13020508)
        440833.43   3762865.13       17.77390  (13020508)               440883.43
3762865.13       16.57896  (13020508)
        440933.43   3762865.13       15.52950  (14013108)               440983.43
3762865.13       14.71849  (14013108)
        441118.27   3762686.02       11.83878  (16122608)               441168.27
```

3762686.02   11.19617 (16122608)
        441118.27   3762736.02   12.23337 (16122608)   441168.27
3762736.02   11.59443 (16122608)
        441118.27   3762786.02   12.39702 (14013108)   441168.27
3762786.02   11.69689 (16122608)
        441118.27   3762836.02   12.77520 (14013108)   441168.27
3762836.02   12.07711 (14013108)
        440411.67   3762093.41   24.80742 (13121808)   440461.67
3762093.41   22.67234 (13121808)
        440511.67   3762093.41   20.14704 (13121808)   440561.67
3762093.41   17.78175 (15011608)
        440611.67   3762093.41   15.89612 (16021108)   440411.67
3762143.41   26.61865 (13121808)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONSITE ***
                                    INCLUDING SOURCE(S):   L0012164   , L0012165
, L0012166   , L0012167   , L0012168   ,
                  L0012169   , L0012170   , L0012171   , L0012172   , L0012173
, L0012174   , L0012175   , L0012176   ,
                  L0012177   , L0012178   , L0012179   , L0012180   , L0012181
, L0012182   , L0012183   , L0012184   ,
                  L0012185   , L0012186   , L0012187   , L0012188   , L0012189
, L0012190   , L0012191   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440461.67   3762143.41   23.51004 (13121808)   440511.67
3762143.41   20.37636 (15011608)
        440561.67   3762143.41   17.94557 (15011608)   440611.67
3762143.41   16.47651 (16021108)
        440406.61   3762008.86   22.52727 (13121808)   440456.61
3762008.86   21.23301 (13121808)
        440506.61   3762008.86   19.60589 (13121808)   440556.61
3762008.86   17.64226 (13121808)
        440606.61   3762008.86   15.76356 (15011608)   440656.61

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3762008.86       14.20518  (15011608)
        440706.61   3762008.86       13.30826  (16021108)                440756.61
3762008.86       12.54558  (16021108)
        440806.61   3762008.86       11.69431  (16021108)                440856.61
3762008.86       10.83433  (16021108)
        440906.61   3762008.86       10.47861  (14120208)                440956.61
3762008.86       10.31709  (14120208)
        441006.61   3762008.86       10.14730  (14120208)                441056.61
3762008.86        9.97534  (13020808)
        441106.61   3762008.86        9.83735  (13020808)                441156.61
3762008.86        9.69010  (13020808)
        440406.61   3762058.86       23.90792  (13121808)                440456.61
3762058.86       22.20922  (13121808)
        440506.61   3762058.86       20.12133  (13121808)                440556.61
3762058.86       17.75331  (13121808)
        440606.61   3762058.86       15.93538  (15011608)                440656.61
3762058.86       14.61920  (16021108)
        440706.61   3762058.86       13.71885  (16021108)                440756.61
3762058.86       12.77287  (16021108)
        440806.61   3762058.86       11.99176  (14120208)                440856.61
3762058.86       11.71206  (14120208)
        440906.61   3762058.86       11.49907  (13020808)                440956.61
3762058.86       11.27489  (13020808)
        441006.61   3762058.86       11.04607  (13020808)                441056.61
3762058.86       10.81655  (13020808)
        441106.61   3762058.86       10.58101  (13020808)                441156.61
3762058.86       10.33949  (13020808)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

                                PAGE  1175
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1OFFSIT ***
                                    INCLUDING SOURCE(S):     L0011892    , L0011893
, L0011894    , L0011895    , L0011896    ,
                  L0011897    , L0011898    , L0011899    , L0011900    , L0011901
, L0011902    , L0011903    , L0011904    ,
                  L0011905    , L0011906    , L0011907    , L0011908    , L0011909
, L0011910    , L0011911    , L0011912    ,
                  L0011913    , L0011914    , L0011915    , L0011916    , L0011917
, L0011918    , L0011919    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	8.79220	(13121808)	439943.36	3761716.33	39.35510	(16111608)
439170.17	3763092.51	7.67044	(14121708)	439220.17	3763092.51	8.25146	(14121708)
439270.17	3763092.51	8.69934	(12120608)	439320.17	3763092.51	9.28575	(12120608)
439370.17	3763092.51	9.75292	(12120608)	439420.17	3763092.51	10.01607	(12120608)
439470.17	3763092.51	11.14371	(12122608)	439520.17	3763092.51	12.32138	(12122608)
439570.17	3763092.51	13.31086	(12122608)	439620.17	3763092.51	14.62011	(12122608)
439670.17	3763092.51	16.21488	(12122608)	439720.17	3763092.51	17.27756	(12122608)
439770.17	3763092.51	21.56043	(13021808)	439820.17	3763092.51	30.68801	(13021808)
439870.17	3763092.51	51.20339	(14013008)	439170.17	3763142.51	7.79826	(14121708)
439220.17	3763142.51	8.29752	(12120608)	439270.17	3763142.51	8.72238	(12120608)
439320.17	3763142.51	9.26618	(12120608)	439370.17	3763142.51	9.63933	(12120608)
439420.17	3763142.51	10.05840	(12122608)	439470.17	3763142.51	11.47236	(12122608)
439520.17	3763142.51	12.79431	(12122608)	439570.17	3763142.51	13.55856	(12122608)
439620.17	3763142.51	14.27187	(12122608)	439670.17	3763142.51	15.70660	(12122608)
439720.17	3763142.51	16.63959	(12122608)	439770.17	3763142.51	21.66593	(13021808)
439820.17	3763142.51	30.76576	(14021808)	439870.17	3763142.51	51.15384	(14013008)
439170.17	3763192.51	7.88926	(14121708)	439220.17	3763192.51	8.35396	(12120608)
439270.17	3763192.51	8.70105	(12120608)	439320.17	3763192.51	9.24127	(12120608)
439370.17	3763192.51	9.49830	(12120608)	439420.17	3763192.51	10.15839	(12122608)
439470.17	3763192.51	11.52550	(12122608)	439520.17	3763192.51	12.67030	(12122608)
439570.17	3763192.51	13.50748	(12122608)	439620.17	3763192.51	14.01307	(12122608)
439670.17	3763192.51	15.22911	(12122608)	439720.17	3763192.51	16.61447	(12122608)
439770.17	3763192.51	21.98511	(13021808)	439820.17	3763192.51	30.97865	(13021808)

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        439870.17   3763192.51       51.21524  (14013008)               439170.17
3763242.51        7.96190  (12120608)
        439220.17   3763242.51        8.39638  (12120608)               439270.17
3763242.51        8.71065  (12120608)
        439320.17   3763242.51        9.06005  (12120608)               439370.17
3763242.51        9.24324  (12120608)
        439420.17   3763242.51       10.32364  (12122608)               439470.17
3763242.51       11.60364  (12122608)
        439520.17   3763242.51       12.58881  (12122608)               439570.17
3763242.51       13.25971  (12122608)
        439620.17   3763242.51       13.61837  (12122608)               439670.17
3763242.51       14.39892  (12122608)
        439720.17   3763242.51       15.93416  (13021808)               439770.17
3763242.51       21.99339  (13021808)
        439820.17   3763242.51       30.97613  (14021808)               439870.17
3763242.51       51.07056  (14013008)
        439170.17   3763292.51        8.06897  (12120608)               439220.17
3763292.51        8.56900  (12120608)
        439270.17   3763292.51        8.93078  (12120608)               439320.17
3763292.51        9.16289  (12120608)
        439370.17   3763292.51        9.29979  (12122608)               439420.17
3763292.51       10.61233  (12122608)
        439470.17   3763292.51       11.84807  (12122608)               439520.17
3763292.51       12.94629  (12122608)
        439570.17   3763292.51       13.17093  (12122608)               439620.17
3763292.51       13.64193  (12122608)
        439670.17   3763292.51       13.97332  (12122608)               439720.17
3763292.51       16.02414  (13021808)
        439770.17   3763292.51       22.12149  (13021808)               439820.17
3763292.51       31.01901  (14021808)
        439870.17   3763292.51       50.75879  (14013008)               439170.17
3763342.51        8.14153  (12120608)
        439220.17   3763342.51        8.57857  (12120608)               439270.17
3763342.51        8.78459  (12120608)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       17:25:05

                                  PAGE  1176
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1OFFSIT ***
                                    INCLUDING SOURCE(S):     L0011892    , L0011893
, L0011894    , L0011895    , L0011896    ,
                  L0011897    , L0011898    , L0011899    , L0011900    , L0011901
, L0011902    , L0011903    , L0011904    ,
                  L0011905    , L0011906    , L0011907    , L0011908    , L0011909
, L0011910    , L0011911    , L0011912    ,
                  L0011913    , L0011914    , L0011915    , L0011916    , L0011917
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, L0011918   , L0011919   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	8.97281	(12120608)	439370.17	3763342.51	9.43514	(12122608)
439420.17	3763342.51	10.63005	(12122608)	439470.17	3763342.51	11.77939	(12122608)
439520.17	3763342.51	12.74577	(12122608)	439570.17	3763342.51	13.11547	(12122608)
439620.17	3763342.51	13.05885	(12122608)	439670.17	3763342.51	13.44352	(12122608)
439720.17	3763342.51	16.05037	(13021808)	439770.17	3763342.51	22.05419	(13021808)
439820.17	3763342.51	30.70371	(14021808)	439870.17	3763342.51	50.28692	(14013008)
439170.17	3763392.51	8.18387	(12120608)	439220.17	3763392.51	8.54454	(12120608)
439270.17	3763392.51	8.68171	(12120608)	439320.17	3763392.51	9.00769	(12120608)
439370.17	3763392.51	9.69901	(12122608)	439420.17	3763392.51	10.89954	(12122608)
439470.17	3763392.51	11.98946	(12122608)	439520.17	3763392.51	12.51595	(12122608)
439570.17	3763392.51	12.74472	(12122608)	439620.17	3763392.51	12.61052	(12122608)
439670.17	3763392.51	12.92149	(12122608)	439720.17	3763392.51	16.01711	(13021808)
439770.17	3763392.51	21.72987	(13021808)	439820.17	3763392.51	30.13301	(14021808)
439870.17	3763392.51	49.20054	(14021808)	439170.17	3763442.51	8.19534	(12120608)
439220.17	3763442.51	8.51037	(12120608)	439270.17	3763442.51	8.60365	(12120608)
439320.17	3763442.51	8.76483	(12120608)	439370.17	3763442.51	9.83712	(12122608)
439420.17	3763442.51	10.85056	(12122608)	439470.17	3763442.51	11.79758	(12122608)
439520.17	3763442.51	12.19701	(12122608)	439570.17	3763442.51	12.42573	(12122608)
439620.17	3763442.51	12.20352	(12122608)	439670.17	3763442.51	12.10226	(12122608)
439720.17	3763442.51	15.98701	(13021808)	439770.17			

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3763442.51       21.44975  (13021808)
        439820.17   3763442.51       29.39238  (14021808)                439870.17
3763442.51       46.97330  (14021808)
        439203.20   3762911.16        7.81999  (16123008)                439253.20
3762911.16        8.20322  (16123008)
        439303.20   3762911.16        8.61240  (14022508)                439353.20
3762911.16        8.92117  (12120608)
        439403.20   3762911.16        9.51677  (12120608)                439453.20
3762911.16       10.13690  (12120608)
        439503.20   3762911.16       11.14115  (12122608)                439553.20
3762911.16       12.72643  (12122608)
        439203.20   3762961.16        7.81432  (16123008)                439253.20
3762961.16        8.14798  (14022508)
        439303.20   3762961.16        8.75290  (12120608)                439353.20
3762961.16        9.24034  (12120608)
        439403.20   3762961.16        9.62891  (12120608)                439453.20
3762961.16       10.16402  (12120608)
        439503.20   3762961.16       11.36949  (12122608)                439553.20
3762961.16       12.75197  (12122608)
        439203.20   3763011.16        7.87252  (16123008)                439253.20
3763011.16        8.34868  (14121708)
        439303.20   3763011.16        8.93572  (12120608)                439353.20
3763011.16        9.53957  (12120608)
        439403.20   3763011.16        9.55655  (12120608)                439453.20
3763011.16       10.29996  (12122608)
        439503.20   3763011.16       11.45057  (12122608)                439553.20
3763011.16       12.88304  (12122608)
        439203.20   3763061.16        7.96484  (14121708)                439253.20
3763061.16        8.50386  (14121708)
        439303.20   3763061.16        9.09086  (12120608)                439353.20
3763061.16        9.66166  (12120608)
        439403.20   3763061.16       10.03064  (12120608)                439453.20
3763061.16       10.71668  (12122608)
        439503.20   3763061.16       11.89028  (12122608)                439553.20
3763061.16       13.14627  (12122608)
        439196.01   3762392.48        7.57951  (12112808)                439246.01
3762392.48        8.07725  (12112808)
        439296.01   3762392.48        8.62030  (12112808)                439346.01
3762392.48        9.20864  (12112808)
        439396.01   3762392.48        9.84161  (12112808)                439446.01
3762392.48       10.52882  (12112808)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:25:05

                                PAGE  1177
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1OFFSIT ***
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                                  INCLUDING SOURCE(S):     L0011892    , L0011893
, L0011894    , L0011895    , L0011896    ,
                  L0011897    , L0011898    , L0011899    , L0011900    , L0011901
, L0011902    , L0011903    , L0011904    ,
                  L0011905    , L0011906    , L0011907    , L0011908    , L0011909
, L0011910    , L0011911    , L0011912    ,
                  L0011913    , L0011914    , L0011915    , L0011916    , L0011917
, L0011918    , L0011919    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
        439496.01   3762392.48       11.27478  (12112808)               439546.01
3762392.48       12.11524  (12112808)
        439196.01   3762442.48        7.63254  (12112808)               439246.01
3762442.48        8.07650  (12112808)
        439296.01   3762442.48        8.52934  (12112808)               439346.01
3762442.48        9.03112  (12112808)
        439396.01   3762442.48        9.56730  (12112808)               439446.01
3762442.48       10.14838  (12112808)
        439496.01   3762442.48       10.79517  (12112808)               439546.01
3762442.48       11.54112  (12112808)
        439196.01   3762492.48        7.54649  (12112808)               439246.01
3762492.48        7.93283  (12112808)
        439296.01   3762492.48        8.32182  (12112808)               439346.01
3762492.48        8.73591  (12112808)
        439396.01   3762492.48        9.20090  (12112808)               439446.01
3762492.48        9.70858  (12112808)
        439496.01   3762492.48       10.43931  (13012508)               439546.01
3762492.48       11.41473  (13012508)
        439196.01   3762542.48        7.35691  (12112808)               439246.01
3762542.48        7.69172  (12112808)
        439296.01   3762542.48        8.02388  (12112808)               439346.01
3762542.48        8.39145  (12112808)
        439396.01   3762542.48        8.88569  (13012508)               439446.01
3762542.48        9.61914  (13012508)
        439496.01   3762542.48       10.37415  (13012508)               439546.01
3762542.48       11.25609  (13012508)
        439196.01   3762592.48        7.09135  (12112808)               439246.01
3762592.48        7.35788  (12112808)
        439296.01   3762592.48        7.74171  (13012508)               439346.01
3762592.48        8.29809  (13012508)
        439396.01   3762592.48        8.91605  (13012508)               439446.01
3762592.48        9.55963  (13012508)
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        439496.01   3762592.48       10.23346  (13012508)              439546.01
3762592.48       11.05476  (13012508)
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3762642.48        7.64326  (13012508)
        439296.01   3762642.48        7.78893  (13012508)              439346.01
3762642.48        8.31358  (13012508)
        439396.01   3762642.48        8.85745  (13012508)              439446.01
3762642.48        9.43828  (13012508)
        439496.01   3762642.48       10.20314  (14022508)              439546.01
3762642.48       11.22568  (14022508)
        439196.01   3762692.48        7.39578  (13012508)              439246.01
3762692.48        7.70236  (13012508)
        439296.01   3762692.48        8.14430  (13012508)              439346.01
3762692.48        8.35784  (13012508)
        439396.01   3762692.48        8.72324  (13012508)              439446.01
3762692.48        9.25018  (13012508)
        439496.01   3762692.48       10.49902  (14022508)              439546.01
3762692.48       11.51978  (12122608)
        439196.01   3762742.48        7.60199  (13012508)              439246.01
3762742.48        7.75123  (13012508)
        439296.01   3762742.48        8.18583  (16123008)              439346.01
3762742.48        8.56364  (16123008)
        439396.01   3762742.48        8.98808  (14022508)              439446.01
3762742.48        9.72657  (14022508)
        439496.01   3762742.48       10.71787  (14022508)              439546.01
3762742.48       11.85520  (12122608)
        439196.01   3762792.48        7.77227  (13012508)              439246.01
3762792.48        7.75735  (16123008)
        439296.01   3762792.48        8.27831  (16123008)              439346.01
3762792.48        8.74979  (16123008)
        439396.01   3762792.48        9.30229  (14022508)              439446.01
3762792.48        9.86146  (14022508)
        439496.01   3762792.48       10.78548  (12120608)              439546.01
3762792.48       12.17589  (12122608)
        439196.01   3762842.48        7.69116  (16123008)              439246.01
3762842.48        7.89985  (16123008)
        439296.01   3762842.48        8.20983  (16123008)              439346.01
3762842.48        8.70933  (14022508)
        439396.01   3762842.48        9.29003  (14022508)              439446.01
3762842.48        9.85332  (14022508)
        439496.01   3762842.48       10.83685  (12122608)              439546.01
3762842.48       12.41841  (12122608)
        439573.31   3762470.54       12.10033  (13012508)              439623.31
3762470.54       13.34342  (13012508)
        439673.31   3762470.54       14.87256  (13012508)              439723.31
3762470.54       17.08082  (14022508)
        439773.31   3762470.54       21.06225  (14022508)              439823.31
3762470.54       27.97518  (14022508)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***
INCLUDING SOURCE(S): L0011892 , L0011893 , L0011894 , L0011895 , L0011896 ,
L0011897 , L0011898 , L0011899 , L0011900 , L0011901 , L0011902 , L0011903 , L0011904 ,
L0011905 , L0011906 , L0011907 , L0011908 , L0011909 , L0011910 , L0011911 , L0011912 ,
L0011913 , L0011914 , L0011915 , L0011916 , L0011917 , L0011918 , L0011919 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	57.33335	(12013008)	439573.31	3762520.54	11.91910	(13012508)
439623.31	3762520.54	13.07550	(13012508)	439673.31	3762520.54	14.52495	(13012508)
439723.31	3762520.54	16.96356	(14022508)	439773.31	3762520.54	20.80970	(14022508)
439823.31	3762520.54	27.61971	(14022508)	439873.31	3762520.54	56.84542	(12013008)
439573.31	3762570.54	11.68237	(13012508)	439623.31	3762570.54	13.11541	(12122608)
439673.31	3762570.54	15.17701	(12122608)	439723.31	3762570.54	17.20507	(14022508)
439773.31	3762570.54	20.77100	(14022508)	439823.31	3762570.54	27.95563	(14021808)
439873.31	3762570.54	56.44964	(12013008)	439573.31	3762620.54	11.76372	(12122608)
439623.31	3762620.54	13.64409	(12122608)	439673.31	3762620.54	15.26630	(12122608)
439723.31	3762620.54	17.25906	(12122608)	439773.31	3762620.54	20.63258	(14022508)
439823.31	3762620.54	28.49686	(14021808)	439873.31	3762620.54	56.03847	(12013008)
439573.31	3762670.54	12.17780	(12122608)	439623.31	3762670.54	14.48465	(12122608)
439673.31	3762670.54	15.99292	(12122608)	439723.31			

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3762670.54       17.67612  (12122608)
        439773.31   3762670.54       20.78279  (14022508)                439823.31
3762670.54       29.19422  (14021808)
        439873.31   3762670.54       55.56381  (12013008)                439152.35
3761448.92        6.90704  (16112908)
        439202.35   3761448.92        7.14491  (16112908)                439252.35
3761448.92        7.42027  (16112908)
        439302.35   3761448.92        7.70459  (16112908)                439352.35
3761448.92        8.01119  (16112908)
        439402.35   3761448.92        8.34904  (16112908)                439452.35
3761448.92        8.73663  (13021208)
        439502.35   3761448.92        9.46360  (16012708)                439552.35
3761448.92       10.25942  (16012708)
        439152.35   3761498.92        7.00628  (16112908)                439202.35
3761498.92        7.32671  (16112908)
        439252.35   3761498.92        7.68176  (16112908)                439302.35
3761498.92        7.98719  (16112908)
        439352.35   3761498.92        8.31857  (16112908)                439402.35
3761498.92        8.68166  (16112908)
        439452.35   3761498.92        9.08759  (16112908)                439502.35
3761498.92        9.62767  (16112908)
        439552.35   3761498.92       10.42620  (16012708)                439152.35
3761548.92        7.02083  (16112908)
        439202.35   3761548.92        7.38837  (16112908)                439252.35
3761548.92        7.78444  (16112908)
        439302.35   3761548.92        8.14679  (16112908)                439352.35
3761548.92        8.51251  (16112908)
        439402.35   3761548.92        8.94559  (16112908)                439452.35
3761548.92        9.41134  (16112908)
        439502.35   3761548.92        9.95204  (16112908)                439552.35
3761548.92       10.62589  (16112908)
        439152.35   3761598.92        6.94179  (16112908)                439202.35
3761598.92        7.34576  (16112908)
        439252.35   3761598.92        7.79297  (16112908)                439302.35
3761598.92        8.24643  (16112908)
        439352.35   3761598.92        8.67806  (16112908)                439402.35
3761598.92        9.18892  (16112908)
        439452.35   3761598.92        9.74039  (16112908)                439502.35
3761598.92       10.30861  (16112908)
        439552.35   3761598.92       11.04203  (16112908)                439152.35
3761648.92        6.75867  (16112908)
        439202.35   3761648.92        7.21368  (16112908)                439252.35
3761648.92        7.71760  (16112908)
        439302.35   3761648.92        8.24834  (16112908)                439352.35
3761648.92        8.78426  (16112908)
        439402.35   3761648.92        9.38004  (16112908)                439452.35
3761648.92       10.00285  (16112908)
        439502.35   3761648.92       10.70426  (16112908)                439552.35
3761648.92       11.49375  (16112908)
        439152.35   3761698.92        6.61541  (16011208)                439202.35
3761698.92        6.96438  (16112908)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***
INCLUDING SOURCE(S): L0011892 , L0011893 , L0011894 , L0011895 , L0011896 , L0011897 , L0011898 , L0011899 , L0011900 , L0011901 , L0011902 , L0011903 , L0011904 , L0011905 , L0011906 , L0011907 , L0011908 , L0011909 , L0011910 , L0011911 , L0011912 , L0011913 , L0011914 , L0011915 , L0011916 , L0011917 , L0011918 , L0011919 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439252.35	3761698.92	7.48321	(16112908)	439302.35	3761698.92	8.07891	(16112908)
439352.35	3761698.92	8.73153	(16112908)	439402.35	3761698.92	9.44773	(16112908)
439452.35	3761698.92	10.12503	(16112908)	439502.35	3761698.92	10.96822	(16112908)
439552.35	3761698.92	11.88826	(16112908)	439152.35	3761748.92	6.67318	(16011208)
439202.35	3761748.92	7.04832	(16011208)	439252.35	3761748.92	7.43423	(16011208)
439302.35	3761748.92	7.87911	(16011208)	439352.35	3761748.92	8.47347	(16112908)
439402.35	3761748.92	9.25237	(16112908)	439452.35	3761748.92	10.07633	(16112908)
439502.35	3761748.92	10.96276	(16112908)	439552.35	3761748.92	12.05609	(16112908)
439152.35	3761798.92	6.60667	(16011208)	439202.35	3761798.92	7.03157	(16011208)
439252.35	3761798.92	7.48390	(16011208)	439302.35	3761798.92	8.00040	(16011208)
439352.35	3761798.92	8.53500	(16011208)	439402.35	3761798.92	9.14103	(16011208)

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        439452.35   3761798.92        9.84456  (16112908)              439502.35
3761798.92       10.82001  (16112908)
        439552.35   3761798.92       12.09180  (16112908)              439152.35
3761848.92        6.42073  (14121208)
        439202.35   3761848.92        6.85967  (16011208)              439252.35
3761848.92        7.34459  (16011208)
        439302.35   3761848.92        7.90372  (16011208)              439352.35
3761848.92        8.50635  (16011208)
        439402.35   3761848.92        9.23478  (16011208)              439452.35
3761848.92       10.02676  (16011208)
        439502.35   3761848.92       10.87447  (16011208)              439552.35
3761848.92       11.95416  (16011208)
        439152.35   3761898.92        6.57623  (14121208)              439202.35
3761898.92        6.95444  (14121208)
        439252.35   3761898.92        7.36682  (14121208)              439302.35
3761898.92        7.85497  (14121208)
        439352.35   3761898.92        8.38458  (14121208)              439402.35
3761898.92        9.04677  (16011208)
        439452.35   3761898.92        9.95665  (16011208)              439502.35
3761898.92       10.98648  (16011208)
        439552.35   3761898.92       12.20379  (16011208)              439152.35
3761948.92        6.92340  (14120908)
        439202.35   3761948.92        7.26518  (14120908)              439252.35
3761948.92        7.63347  (14120908)
        439302.35   3761948.92        8.08827  (14120908)              439352.35
3761948.92        8.58041  (14120908)
        439402.35   3761948.92        9.25099  (14121208)              439452.35
3761948.92       10.07078  (14121208)
        439502.35   3761948.92       11.02308  (14121208)              439552.35
3761948.92       12.15938  (14121208)
        439152.35   3761998.92        7.46706  (14120908)              439202.35
3761998.92        7.86265  (14120908)
        439252.35   3761998.92        8.29717  (14120908)              439302.35
3761998.92        8.83685  (14120908)
        439352.35   3761998.92        9.43742  (14120908)              439402.35
3761998.92       10.09011  (14120908)
        439452.35   3761998.92       10.88158  (14120908)              439502.35
3761998.92       11.81446  (14120908)
        439552.35   3761998.92       12.94557  (14120908)              439152.35
3762048.92        7.88527  (14120908)
        439202.35   3762048.92        8.34130  (14120908)              439252.35
3762048.92        8.85289  (14120908)
        439302.35   3762048.92        9.43571  (14120908)              439352.35
3762048.92       10.10242  (14120908)
        439402.35   3762048.92       10.86555  (14120908)              439452.35
3762048.92       11.78062  (14120908)
        439502.35   3762048.92       12.86963  (14120908)              439552.35
3762048.92       14.19284  (14120908)
        439616.61   3761420.65       11.57328  (13112508)              439666.61
3761420.65       13.22112  (15012208)
        439716.61   3761420.65       15.53905  (15012208)              439766.61
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3761420.65   19.16654 (14120808)
        439816.61   3761420.65   26.12195 (15120208)   439866.61
3761420.65   43.83960 (16121908)
        439616.61   3761470.65   11.68523 (13112508)   439666.61
3761470.65   13.31758 (13112508)
        439716.61   3761470.65   15.77900 (14120808)   439766.61
3761470.65   19.71413 (14120808)
        439816.61   3761470.65   27.40356 (15120208)   439866.61
3761470.65   52.61053 (15120208)
        439616.61   3761520.65   11.85862 (16012708)   439666.61
3761520.65   13.51119 (13112508)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1OFFSIT ***
                                  INCLUDING SOURCE(S):   L0011892   , L0011893
, L0011894   , L0011895   , L0011896   ,
                  L0011897   , L0011898   , L0011899   , L0011900   , L0011901
, L0011902   , L0011903   , L0011904   ,
                  L0011905   , L0011906   , L0011907   , L0011908   , L0011909
, L0011910   , L0011911   , L0011912   ,
                  L0011913   , L0011914   , L0011915   , L0011916   , L0011917
, L0011918   , L0011919   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439716.61   3761520.65   16.03190 (14120808)   439766.61
3761520.65   20.30637 (14120808)
        439816.61   3761520.65   28.59959 (15120208)   439866.61
3761520.65   56.35292 (12013008)
        439616.61   3761570.65   12.11610 (16012708)   439666.61
3761570.65   13.68197 (13112508)
        439716.61   3761570.65   16.24356 (14120808)   439766.61
3761570.65   20.75399 (14120808)
        439816.61   3761570.65   29.35628 (15120208)   439866.61
3761570.65   58.75633 (12013008)
        440451.14   3762893.83   10.87274 (14121508)   440501.14

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3762893.83        9.75459  (14121508)
        440551.14   3762893.83        8.62834  (14121508)                440601.14
3762893.83        7.60217  (14121508)
        440651.14   3762893.83        6.66328  (14121508)                440701.14
3762893.83        5.87136  (14121508)
        440751.14   3762893.83        5.21830  (14121508)                440801.14
3762893.83        5.03683  (14122508)
        440851.14   3762893.83        4.95154  (14122508)                440451.14
3762943.83       10.93475  (14121508)
        440501.14   3762943.83        9.93941  (14121508)                440551.14
3762943.83        8.85415  (14121508)
        440601.14   3762943.83        7.84286  (14121508)                440651.14
3762943.83        6.87537  (14121508)
        440701.14   3762943.83        6.03450  (14121508)                440751.14
3762943.83        5.32426  (14121508)
        440801.14   3762943.83        4.91154  (14122508)                440851.14
3762943.83        4.95135  (14122508)
        441116.67   3763135.31        4.25404  (14122508)                441166.67
3763135.31        4.21504  (14122508)
        441116.67   3763185.31        4.14891  (14122508)                441166.67
3763185.31        4.08536  (14122508)
        441116.67   3763235.31        4.05119  (14122508)                441166.67
3763235.31        3.97749  (14122508)
        441116.67   3763285.31        4.02146  (14122508)                441166.67
3763285.31        3.91055  (14122508)
        441116.67   3763335.31        3.98094  (14122508)                441166.67
3763335.31        3.88164  (14122508)
        441116.67   3763385.31        3.93854  (14122508)                441166.67
3763385.31        3.86764  (14122508)
        441116.67   3763435.31        3.90497  (14122508)                441166.67
3763435.31        3.82424  (14122508)
        440433.43   3762815.13       11.04032  (14121508)                440483.43
3762815.13        9.82247  (14121508)
        440533.43   3762815.13        8.62620  (14121508)                440583.43
3762815.13        7.57790  (14121508)
        440633.43   3762815.13        6.63538  (14121508)                440683.43
3762815.13        5.86221  (14121508)
        440733.43   3762815.13        5.41398  (14122508)                440783.43
3762815.13        5.38648  (14122508)
        440833.43   3762815.13        5.50690  (14122508)                440883.43
3762815.13        5.57101  (14122508)
        440933.43   3762815.13        5.57427  (14122508)                440983.43
3762815.13        5.63999  (14122508)
        440433.43   3762865.13       11.17585  (14121508)                440483.43
3762865.13       10.02907  (14121508)
        440533.43   3762865.13        8.88234  (14121508)                440583.43
3762865.13        7.81131  (14121508)
        440633.43   3762865.13        6.85081  (14121508)                440683.43
3762865.13        6.02695  (14121508)
        440733.43   3762865.13        5.36545  (14121508)                440783.43
3762865.13        5.17964  (14122508)
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        440833.43   3762865.13        5.10837  (14122508)                440883.43
3762865.13        5.10517  (14122508)
        440933.43   3762865.13        5.10259  (14122508)                440983.43
3762865.13        5.19353  (14122508)
        441118.27   3762686.02        6.93338  (14122508)                441168.27
3762686.02        6.90729  (14122508)
        441118.27   3762736.02        6.61932  (14122508)                441168.27
3762736.02        6.54131  (14122508)
        441118.27   3762786.02        6.13924  (14122508)                441168.27
3762786.02        6.16854  (14122508)
        441118.27   3762836.02        5.66706  (14122508)                441168.27
3762836.02        5.74943  (14122508)
        440411.67   3762093.41       54.44469  (12013008)                440461.67
3762093.41       54.03462  (12013008)
        440511.67   3762093.41       53.66173  (12013008)                440561.67
3762093.41       53.32446  (12013008)
        440611.67   3762093.41       53.00302  (12013008)                440411.67
3762143.41       22.24056  (14122508)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:25:05

                                PAGE  1181
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1OFFSIT ***
                                  INCLUDING SOURCE(S):     L0011892    , L0011893
, L0011894    , L0011895    , L0011896    ,
                  L0011897    , L0011898    , L0011899    , L0011900    , L0011901
, L0011902    , L0011903    , L0011904    ,
                  L0011905    , L0011906    , L0011907    , L0011908    , L0011909
, L0011910    , L0011911    , L0011912    ,
                  L0011913    , L0011914    , L0011915    , L0011916    , L0011917
, L0011918    , L0011919    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        440461.67   3762143.41       22.00259  (13111908)                440511.67
3762143.41       21.96969  (13111908)
        440561.67   3762143.41       21.95271  (13111908)                440611.67
3762143.41       21.91413  (13111908)
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        440406.61   3762008.86       22.04737  (14120208)                440456.61
3762008.86       21.88402  (14120208)
        440506.61   3762008.86       21.69745  (14120208)                440556.61
3762008.86       21.48059  (14120208)
        440606.61   3762008.86       21.29352  (14120208)                440656.61
3762008.86       21.12491  (14120208)
        440706.61   3762008.86       20.98753  (14120208)                440756.61
3762008.86       20.85132  (14120208)
        440806.61   3762008.86       20.43994  (14120208)                440856.61
3762008.86       20.33597  (14120208)
        440906.61   3762008.86       20.37926  (14120208)                440956.61
3762008.86       20.11756  (14120208)
        441006.61   3762008.86       19.82263  (14120208)                441056.61
3762008.86       19.28275  (14120208)
        441106.61   3762008.86       18.80624  (13020808)                441156.61
3762008.86       18.25175  (13020808)
        440406.61   3762058.86       51.97906  (12013008)                440456.61
3762058.86       51.54538  (12013008)
        440506.61   3762058.86       51.19373  (12013008)                440556.61
3762058.86       50.85161  (12013008)
        440606.61   3762058.86       50.55899  (12013008)                440656.61
3762058.86       50.21087  (12013008)
        440706.61   3762058.86       50.05745  (12013008)                440756.61
3762058.86       49.82874  (12013008)
        440806.61   3762058.86       49.18416  (12013008)                440856.61
3762058.86       48.95532  (12013008)
        440906.61   3762058.86       48.71189  (12013008)                440956.61
3762058.86       48.07324  (12013008)
        441006.61   3762058.86       47.23517  (12013008)                441056.61
3762058.86       45.82682  (12013008)
        441106.61   3762058.86       42.58250  (12013008)                441156.61
3762058.86       35.19538  (12012708)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

                                PAGE  1182
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                 INCLUDING SOURCE(S):     L0011686    , L0011687
, L0011688    , L0011689    , L0011690    ,
                 L0011691    , L0011692    , L0011693    , L0011694    , L0011695
, L0011696    , L0011697    , L0011698    ,
                 L0011699    , L0011700    , L0011701    , L0011702    , L0011703
, L0011704    , L0011705    , L0011706    ,
                 L0011707    , L0011708    , L0011709    , L0011710    , L0011711
, L0011712    , L0011713    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	21.17300	(14012108)	439943.36	3761716.33	32.26967	(15012208)
439170.17	3763092.51	13.53052	(16123008)	439220.17	3763092.51	14.60499	(16123008)
439270.17	3763092.51	15.20327	(16123008)	439320.17	3763092.51	15.83679	(16123008)
439370.17	3763092.51	16.09096	(16123008)	439420.17	3763092.51	15.79010	(16123008)
439470.17	3763092.51	16.79698	(14022508)	439520.17	3763092.51	17.71776	(14022508)
439570.17	3763092.51	18.37078	(14022508)	439620.17	3763092.51	19.60142	(12120608)
439670.17	3763092.51	20.93001	(12120608)	439720.17	3763092.51	21.12265	(12120608)
439770.17	3763092.51	20.10836	(12120608)	439820.17	3763092.51	18.54084	(16012808)
439870.17	3763092.51	21.20842	(12122608)	439170.17	3763142.51	13.94624	(16123008)
439220.17	3763142.51	14.71931	(16123008)	439270.17	3763142.51	14.98594	(16123008)
439320.17	3763142.51	15.35799	(16123008)	439370.17	3763142.51	15.21122	(16123008)
439420.17	3763142.51	16.09542	(14022508)	439470.17	3763142.51	17.22234	(14022508)
439520.17	3763142.51	17.98314	(14022508)	439570.17	3763142.51	18.47022	(12120608)
439620.17	3763142.51	19.28466	(12120608)	439670.17	3763142.51	19.87660	(12120608)
439720.17	3763142.51	19.36087	(12120608)	439770.17	3763142.51	18.26171	(16012808)
439820.17	3763142.51	18.79916	(12122608)	439870.17	3763142.51	21.81639	(12122608)
439170.17	3763192.51	14.07496	(16123008)	439220.17	3763192.51	14.46356	(16123008)
439270.17	3763192.51	14.44472	(16123008)	439320.17	3763192.51	14.46881	(16123008)
439370.17	3763192.51	15.36161	(14022508)	439420.17	3763192.51	16.19250	(14022508)
439470.17	3763192.51	16.95930	(14022508)	439520.17	3763192.51	17.65034	(12120608)
439570.17	3763192.51	18.42467	(12120608)	439620.17			

3763192.51 18.56862 (12120608)
  439670.17 3763192.51 18.58872 (12120608) 439720.17
3763192.51 18.30213 (16012808)
  439770.17 3763192.51 17.38233 (16012808) 439820.17
3763192.51 19.71982 (12122608)
  439870.17 3763192.51 22.25468 (12122608) 439170.17
3763242.51 13.87376 (16123008)
  439220.17 3763242.51 13.94123 (16123008) 439270.17
3763242.51 13.62273 (16123008)
  439320.17 3763242.51 14.53391 (14022508) 439370.17
3763242.51 15.44112 (14022508)
  439420.17 3763242.51 16.04953 (14022508) 439470.17
3763242.51 16.75004 (12120608)
  439520.17 3763242.51 17.61622 (12120608) 439570.17
3763242.51 17.90566 (12120608)
  439620.17 3763242.51 17.49287 (12120608) 439670.17
3763242.51 16.95335 (16012808)
  439720.17 3763242.51 16.83967 (16012808) 439770.17
3763242.51 17.41476 (12122608)
  439820.17 3763242.51 20.30807 (12122608) 439870.17
3763242.51 22.44975 (12122608)
  439170.17 3763292.51 13.49108 (16123008) 439220.17
3763292.51 13.81250 (14121608)
  439270.17 3763292.51 14.43452 (14121608) 439320.17
3763292.51 14.88797 (14022508)
  439370.17 3763292.51 15.37202 (14022508) 439420.17
3763292.51 16.03346 (14121708)
  439470.17 3763292.51 17.07829 (12120608) 439520.17
3763292.51 17.66231 (12120608)
  439570.17 3763292.51 17.24142 (12120608) 439620.17
3763292.51 16.54530 (16012808)
  439670.17 3763292.51 16.12456 (16012808) 439720.17
3763292.51 15.31877 (16012808)
  439770.17 3763292.51 18.25980 (12122608) 439820.17
3763292.51 20.79858 (12122608)
  439870.17 3763292.51 22.25752 (12122608) 439170.17
3763342.51 13.22029 (14121608)
  439220.17 3763342.51 14.10258 (14121608) 439270.17
3763342.51 14.17956 (14022508)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                INCLUDING SOURCE(S):   L0011686   , L0011687
, L0011688   , L0011689   , L0011690   ,

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                L0011691    , L0011692    , L0011693    , L0011694    , L0011695
, L0011696    , L0011697    , L0011698    ,
                L0011699    , L0011700    , L0011701    , L0011702    , L0011703
, L0011704    , L0011705    , L0011706    ,
                L0011707    , L0011708    , L0011709    , L0011710    , L0011711
, L0011712    , L0011713    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439320.17   3763342.51       14.92694  (14121708)               439370.17
3763342.51       15.18795  (14121708)
        439420.17   3763342.51       16.08900  (12120608)               439470.17
3763342.51       16.78509  (12120608)
        439520.17   3763342.51       16.90971  (12120608)               439570.17
3763342.51       16.26457  (16012808)
        439620.17   3763342.51       15.72823  (16012808)               439670.17
3763342.51       14.97334  (16012808)
        439720.17   3763342.51       15.75790  (12122608)               439770.17
3763342.51       18.76555  (12122608)
        439820.17   3763342.51       20.93333  (12122608)               439870.17
3763342.51       21.88870  (12122608)
        439170.17   3763392.51       13.58223  (14121608)               439220.17
3763392.51       14.06813  (14121608)
        439270.17   3763392.51       14.38044  (14121708)               439320.17
3763392.51       15.05938  (14121708)
        439370.17   3763392.51       15.45946  (12120608)               439420.17
3763392.51       16.23207  (12120608)
        439470.17   3763392.51       16.48909  (12120608)               439520.17
3763392.51       15.97818  (16012808)
        439570.17   3763392.51       15.73762  (16012808)               439620.17
3763392.51       14.77878  (16012808)
        439670.17   3763392.51       13.84252  (12122608)               439720.17
3763392.51       16.26671  (12122608)
        439770.17   3763392.51       18.90532  (12122608)               439820.17
3763392.51       20.70500  (12122608)
        439870.17   3763392.51       21.16743  (12122608)               439170.17
3763442.51       13.66445  (14121608)
        439220.17   3763442.51       14.08740  (14121708)               439270.17
3763442.51       14.40037  (14121708)
        439320.17   3763442.51       14.75543  (12120608)               439370.17
3763442.51       15.46745  (12120608)
        439420.17   3763442.51       15.72517  (12120608)               439470.17
3763442.51       15.62721  (16012808)
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        439520.17   3763442.51       15.47197  (16012808)                439570.17
3763442.51       14.96106  (16012808)
        439620.17   3763442.51       13.71179  (16012808)                439670.17
3763442.51       14.45803  (12122608)
        439720.17   3763442.51       16.84649  (12122608)                439770.17
3763442.51       19.07226  (12122608)
        439820.17   3763442.51       20.35383  (12122608)                439870.17
3763442.51       20.17442  (12122608)
        439203.20   3762911.16       13.35443  (13012508)                439253.20
3762911.16       13.66871  (13012508)
        439303.20   3762911.16       14.23704  (13012408)                439353.20
3762911.16       14.56378  (16123008)
        439403.20   3762911.16       15.44357  (16123008)                439453.20
3762911.16       16.40778  (16123008)
        439503.20   3762911.16       16.76130  (16123008)                439553.20
3762911.16       17.37503  (16123008)
        439203.20   3762961.16       13.10123  (13012408)                439253.20
3762961.16       13.61654  (13012408)
        439303.20   3762961.16       14.82076  (16123008)                439353.20
3762961.16       15.46464  (16123008)
        439403.20   3762961.16       15.90608  (16123008)                439453.20
3762961.16       16.46777  (16123008)
        439503.20   3762961.16       16.33518  (16123008)                439553.20
3762961.16       17.54384  (14022508)
        439203.20   3763011.16       13.54696  (13012408)                439253.20
3763011.16       14.37025  (16123008)
        439303.20   3763011.16       15.35196  (16123008)                439353.20
3763011.16       16.26937  (16123008)
        439403.20   3763011.16       15.60314  (16123008)                439453.20
3763011.16       15.87593  (16123008)
        439503.20   3763011.16       16.50285  (14022508)                439553.20
3763011.16       17.93708  (14022508)
        439203.20   3763061.16       13.95473  (16123008)                439253.20
3763061.16       14.97925  (16123008)
        439303.20   3763061.16       15.80500  (16123008)                439353.20
3763061.16       16.39526  (16123008)
        439403.20   3763061.16       16.48606  (16123008)                439453.20
3763061.16       16.26770  (14022508)
        439503.20   3763061.16       17.38660  (14022508)                439553.20
3763061.16       18.49070  (14022508)
        439196.01   3762392.48       12.96781  (14120908)                439246.01
3762392.48       13.51989  (14120908)
        439296.01   3762392.48       14.10943  (14120908)                439346.01
3762392.48       14.83828  (15121408)
        439396.01   3762392.48       15.93458  (12112808)                439446.01
3762392.48       17.38441  (12112808)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***          03/30/23
 *** AERMET - VERSION  16216 ***   ***
                          ***         17:25:05
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0011686 , L0011687 , L0011688 , L0011689 , L0011690 , L0011691 , L0011692 , L0011693 , L0011694 , L0011695 , L0011696 , L0011697 , L0011698 , L0011699 , L0011700 , L0011701 , L0011702 , L0011703 , L0011704 , L0011705 , L0011706 , L0011707 , L0011708 , L0011709 , L0011710 , L0011711 , L0011712 , L0011713 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	18.86563	(12112808)	439546.01	3762392.48	20.34005	(12112808)
439196.01	3762442.48	12.14776	(15121408)	439246.01	3762442.48	13.14790	(12112808)
439296.01	3762442.48	14.24053	(12112808)	439346.01	3762442.48	15.37201	(12112808)
439396.01	3762442.48	16.52595	(12112808)	439446.01	3762442.48	17.68432	(12112808)
439496.01	3762442.48	18.83120	(12112808)	439546.01	3762442.48	19.96013	(12112808)
439196.01	3762492.48	12.88938	(12112808)	439246.01	3762492.48	13.79546	(12112808)
439296.01	3762492.48	14.71753	(12112808)	439346.01	3762492.48	15.64553	(12112808)
439396.01	3762492.48	16.57191	(12112808)	439446.01	3762492.48	17.49290	(12112808)
439496.01	3762492.48	18.41595	(12112808)	439546.01	3762492.48	19.36347	(12112808)
439196.01	3762542.48	13.23844	(12112808)	439246.01	3762542.48	13.98675	(12112808)
439296.01	3762542.48	14.73235	(12112808)	439346.01	3762542.48	15.47217	(12112808)
439396.01	3762542.48	16.20865	(12112808)	439446.01	3762542.48	16.95024	(12112808)
439496.01	3762542.48	17.71649	(12112808)	439546.01	3762542.48	18.53535	(12112808)
439196.01	3762592.48	13.18338	(12112808)	439246.01			

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3762592.48       13.77019  (12112808)
        439296.01   3762592.48       14.34711  (12112808)                439346.01
3762592.48       14.91498  (12112808)
        439396.01   3762592.48       15.47988  (12112808)                439446.01
3762592.48       16.05400  (12112808)
        439496.01   3762592.48       16.65174  (12112808)                439546.01
3762592.48       17.87272  (13012508)
        439196.01   3762642.48       12.76030  (12112808)                439246.01
3762642.48       13.18606  (12112808)
        439296.01   3762642.48       13.59799  (12112808)                439346.01
3762642.48       13.99201  (12112808)
        439396.01   3762642.48       14.40912  (13012508)                439446.01
3762642.48       15.62615  (13012508)
        439496.01   3762642.48       16.83073  (13012508)                439546.01
3762642.48       18.00398  (13012508)
        439196.01   3762692.48       11.98143  (12112808)                439246.01
3762692.48       12.22101  (12112808)
        439296.01   3762692.48       13.37536  (13012508)                439346.01
3762692.48       13.95999  (13012508)
        439396.01   3762692.48       14.80834  (13012508)                439446.01
3762692.48       15.84257  (13012508)
        439496.01   3762692.48       16.96179  (13012508)                439546.01
3762692.48       17.88017  (13012508)
        439196.01   3762742.48       12.55709  (13012508)                439246.01
3762742.48       12.93813  (13012508)
        439296.01   3762742.48       13.96271  (13012508)                439346.01
3762742.48       14.51029  (13012508)
        439396.01   3762742.48       15.12973  (13012508)                439446.01
3762742.48       15.86032  (13012508)
        439496.01   3762742.48       16.78104  (13012508)                439546.01
3762742.48       17.34393  (13012508)
        439196.01   3762792.48       13.55759  (13012508)                439246.01
3762792.48       13.33556  (13012508)
        439296.01   3762792.48       14.32073  (13012508)                439346.01
3762792.48       14.85005  (13012508)
        439396.01   3762792.48       15.22740  (13012508)                439446.01
3762792.48       15.44331  (13012508)
        439496.01   3762792.48       16.73453  (16123008)                439546.01
3762792.48       17.79273  (16123008)
        439196.01   3762842.48       13.79806  (13012508)                439246.01
3762842.48       13.67862  (13012508)
        439296.01   3762842.48       13.96669  (13012508)                439346.01
3762842.48       14.21484  (13012508)
        439396.01   3762842.48       14.64569  (16123008)                439446.01
3762842.48       15.65309  (16123008)
        439496.01   3762842.48       17.09278  (16123008)                439546.01
3762842.48       18.00707  (16123008)
        439573.31   3762470.54       20.21114  (12112808)                439623.31
3762470.54       21.31334  (12112808)
        439673.31   3762470.54       22.56854  (12112808)                439723.31
3762470.54       24.08320  (12112808)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0011686 , L0011687 , L0011688 , L0011689 , L0011690 ,
L0011691 , L0011692 , L0011693 , L0011694 , L0011695 , L0011696 , L0011697 , L0011698 ,
L0011699 , L0011700 , L0011701 , L0011702 , L0011703 , L0011704 , L0011705 , L0011706 ,
L0011707 , L0011708 , L0011709 , L0011710 , L0011711 , L0011712 , L0011713 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	31.47956	(12112808)	439573.31	3762520.54	19.44975	(12112808)
439623.31	3762520.54	20.48649	(12112808)	439673.31	3762520.54	21.70178	(12112808)
439723.31	3762520.54	23.18404	(13012508)	439773.31	3762520.54	25.25300	(13012508)
439823.31	3762520.54	27.84246	(13012508)	439873.31	3762520.54	31.11625	(13012508)
439573.31	3762570.54	18.52751	(13012508)	439623.31	3762570.54	19.99167	(13012508)
439673.31	3762570.54	21.54700	(13012508)	439723.31	3762570.54	23.25428	(13012508)
439773.31	3762570.54	25.35501	(13012508)	439823.31	3762570.54	27.85918	(13012508)
439873.31	3762570.54	30.56208	(13012508)	439573.31	3762620.54	18.69688	(13012508)
439623.31	3762620.54	19.96174	(13012508)	439673.31	3762620.54	21.40888	(13012508)
439723.31	3762620.54	22.91553	(13012508)	439773.31	3762620.54	24.65407	(13012508)

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        439823.31   3762620.54       26.47313  (13012508)                439873.31
3762620.54       29.06434  (16123008)
        439573.31   3762670.54       18.51052  (13012508)                439623.31
3762670.54       19.77140  (13012508)
        439673.31   3762670.54       20.76849  (13012508)                439723.31
3762670.54       21.79935  (13012508)
        439773.31   3762670.54       23.81611  (16123008)                439823.31
3762670.54       25.87190  (16123008)
        439873.31   3762670.54       27.99652  (14022508)                439152.35
3761448.92       10.51686  (16012708)
        439202.35   3761448.92       11.58066  (16012708)                439252.35
3761448.92       12.57739  (16012708)
        439302.35   3761448.92       13.38822  (16012708)                439352.35
3761448.92       13.93805  (16012708)
        439402.35   3761448.92       14.14760  (16012708)                439452.35
3761448.92       14.33632  (16020908)
        439502.35   3761448.92       15.54357  (16011108)                439552.35
3761448.92       16.53814  (16011108)
        439152.35   3761498.92       11.58328  (13021208)                439202.35
3761498.92       11.54872  (13021208)
        439252.35   3761498.92       12.41670  (16012708)                439302.35
3761498.92       13.54521  (16012708)
        439352.35   3761498.92       14.48728  (16012708)                439402.35
3761498.92       15.13557  (16012708)
        439452.35   3761498.92       15.38907  (16012708)                439502.35
3761498.92       15.63679  (16020908)
        439552.35   3761498.92       17.06857  (16011108)                439152.35
3761548.92       12.38589  (13021208)
        439202.35   3761548.92       12.66123  (13021208)                439252.35
3761548.92       12.75947  (13021208)
        439302.35   3761548.92       13.18110  (16012708)                439352.35
3761548.92       14.50302  (16012708)
        439402.35   3761548.92       15.66720  (16012708)                439452.35
3761548.92       16.48614  (16012708)
        439502.35   3761548.92       16.85782  (16012708)                439552.35
3761548.92       17.11522  (16020908)
        439152.35   3761598.92       12.84822  (14122608)                439202.35
3761598.92       13.37025  (13021208)
        439252.35   3761598.92       13.83613  (13021208)                439302.35
3761598.92       14.07075  (13021208)
        439352.35   3761598.92       14.04417  (16012708)                439402.35
3761598.92       15.68460  (16012708)
        439452.35   3761598.92       17.11035  (16012708)                439502.35
3761598.92       18.10609  (16012708)
        439552.35   3761598.92       18.63639  (16012708)                439152.35
3761648.92       13.67774  (16112908)
        439202.35   3761648.92       13.93351  (16112908)                439252.35
3761648.92       14.45119  (13021208)
        439302.35   3761648.92       15.14165  (13021208)                439352.35
3761648.92       15.57343  (13021208)
        439402.35   3761648.92       15.74639  (13021208)                439452.35
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3761648.92 17.06440 (16012708)
439502.35 3761648.92 18.81381 (16012708) 439552.35
3761648.92 20.12601 (16012708)
439152.35 3761698.92 14.27629 (16112908) 439202.35
3761698.92 14.89053 (16112908)
439252.35 3761698.92 15.37033 (16112908) 439302.35
3761698.92 15.72681 (16112908)
439352.35 3761698.92 16.54278 (13021208) 439402.35
3761698.92 17.33473 (13021208)
*** AERMOD - VERSION 21112 *** *** Ontario Euclid CSTN
*** 03/30/23
*** AERMET - VERSION 16216 *** ***
*** 17:25:05

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0011686 , L0011687 , L0011688 , L0011689 , L0011690 ,
L0011691 , L0011692 , L0011693 , L0011694 , L0011695 , L0011696 , L0011697 , L0011698 ,
L0011699 , L0011700 , L0011701 , L0011702 , L0011703 , L0011704 , L0011705 , L0011706 ,
L0011707 , L0011708 , L0011709 , L0011710 , L0011711 , L0011712 , L0011713 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
- - - -

```
3761798.92       14.84829  (16112908)
        439252.35   3761798.92       16.08604  (16112908)                439302.35
3761798.92       17.39060  (16112908)
        439352.35   3761798.92       18.52360  (16112908)                439402.35
3761798.92       19.58850  (16112908)
        439452.35   3761798.92       20.52020  (16112908)                439502.35
3761798.92       21.22027  (13021208)
        439552.35   3761798.92       22.65376  (13021208)                439152.35
3761848.92       12.42203  (13122508)
        439202.35   3761848.92       13.77467  (16112908)                439252.35
3761848.92       15.21055  (16112908)
        439302.35   3761848.92       16.79320  (16112908)                439352.35
3761848.92       18.36076  (16112908)
        439402.35   3761848.92       20.11987  (16112908)                439452.35
3761848.92       21.74232  (16112908)
        439502.35   3761848.92       23.05936  (16112908)                439552.35
3761848.92       24.39294  (16112908)
        439152.35   3761898.92       12.68794  (16011208)                439202.35
3761898.92       13.37246  (16011208)
        439252.35   3761898.92       14.04794  (16011208)                439302.35
3761898.92       15.43643  (16112908)
        439352.35   3761898.92       17.29275  (16112908)                439402.35
3761898.92       19.32066  (16112908)
        439452.35   3761898.92       21.62195  (16112908)                439502.35
3761898.92       23.92843  (16112908)
        439552.35   3761898.92       26.26040  (16112908)                439152.35
3761948.92       12.62265  (16011208)
        439202.35   3761948.92       13.48113  (16011208)                439252.35
3761948.92       14.37747  (16011208)
        439302.35   3761948.92       15.41123  (16011208)                439352.35
3761948.92       16.47074  (16011208)
        439402.35   3761948.92       17.55482  (16011208)                439452.35
3761948.92       19.95288  (16112908)
        439502.35   3761948.92       22.77603  (16112908)                439552.35
3761948.92       25.91736  (16112908)
        439152.35   3761998.92       11.97277  (16011208)                439202.35
3761998.92       12.90940  (16011208)
        439252.35   3761998.92       13.92415  (16011208)                439302.35
3761998.92       15.12177  (16011208)
        439352.35   3761998.92       16.42277  (16011208)                439402.35
3761998.92       17.79524  (16011208)
        439452.35   3761998.92       19.37635  (16011208)                439502.35
3761998.92       21.13905  (16011208)
        439552.35   3761998.92       23.23448  (16112908)                439152.35
3762048.92       11.59644  (14121208)
        439202.35   3762048.92       12.27469  (14121208)                439252.35
3762048.92       13.01902  (14121208)
        439302.35   3762048.92       14.06494  (16011208)                439352.35
3762048.92       15.39063  (16011208)
        439402.35   3762048.92       16.87193  (16011208)                439452.35
3762048.92       18.59255  (16011208)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0011686 , L0011687 , L0011688 , L0011689 , L0011690 ,
L0011691 , L0011692 , L0011693 , L0011694 , L0011695 , L0011696 , L0011697 , L0011698 ,
L0011699 , L0011700 , L0011701 , L0011702 , L0011703 , L0011704 , L0011705 , L0011706 ,
L0011707 , L0011708 , L0011709 , L0011710 , L0011711 , L0011712 , L0011713 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439502.35	3762048.92	20.57502	(16011208)	439552.35	3762048.92	22.89670	(16011208)
439616.61	3761420.65	17.01559	(13112508)	439666.61	3761420.65	17.13053	(13112508)
439716.61	3761420.65	17.82430	(15012208)	439766.61	3761420.65	18.86278	(15012208)
439816.61	3761420.65	18.90615	(15012208)	439866.61	3761420.65	18.98905	(14120808)
439616.61	3761470.65	17.84230	(13112508)	439666.61	3761470.65	18.53784	(13112508)
439716.61	3761470.65	18.38891	(13112508)	439766.61	3761470.65	19.84490	(15012208)
439816.61	3761470.65	20.47212	(15012208)	439866.61	3761470.65	20.39871	(14120808)
439616.61	3761520.65	18.70029	(16011108)	439666.61	3761520.65	19.69672	(13112508)
439716.61	3761520.65	20.22741	(13112508)	439766.61	3761520.65	20.68618	(15012208)
439816.61	3761520.65	22.03862	(15012208)	439866.61	3761520.65	22.25753	(15012208)
439616.61	3761570.65	19.50941	(16011108)	439666.61	3761570.65	20.70682	(16011108)

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        439716.61   3761570.65       21.86168  (13112508)              439766.61
3761570.65       22.17083  (13112508)
        439816.61   3761570.65       23.47169  (15012208)              439866.61
3761570.65       24.39478  (15012208)
        440451.14   3762893.83       27.91772  (14121508)              440501.14
3762893.83       28.43520  (14121508)
        440551.14   3762893.83       26.64593  (14121508)              440601.14
3762893.83       24.09004  (14121508)
        440651.14   3762893.83       19.75749  (14121508)              440701.14
3762893.83       15.00361  (14121508)
        440751.14   3762893.83       14.04467  (13121908)              440801.14
3762893.83       15.58962  (13121908)
        440851.14   3762893.83       16.05843  (13121908)              440451.14
3762943.83       25.89076  (14121508)
        440501.14   3762943.83       28.97084  (14121508)              440551.14
3762943.83       28.40403  (14121508)
        440601.14   3762943.83       26.65149  (14121508)              440651.14
3762943.83       22.00428  (14121508)
        440701.14   3762943.83       16.98478  (14121508)              440751.14
3762943.83       12.01984  (14121508)
        440801.14   3762943.83       12.94568  (13121908)              440851.14
3762943.83       14.54602  (13121908)
        441116.67   3763135.31       11.68760  (13121908)              441166.67
3763135.31       11.95853  (13121908)
        441116.67   3763185.31       10.23726  (13121908)              441166.67
3763185.31       10.84844  (13121908)
        441116.67   3763235.31        8.65417  (13121908)              441166.67
3763235.31        9.50814  (13121908)
        441116.67   3763285.31        7.07842  (13121908)              441166.67
3763285.31        8.07448  (13121908)
        441116.67   3763335.31        5.59942  (13121908)              441166.67
3763335.31        6.63594  (13121908)
        441116.67   3763385.31        4.30202  (13121908)              441166.67
3763385.31        5.27487  (13121908)
        441116.67   3763435.31        4.46410  (14121508)              441166.67
3763435.31        4.08237  (13121908)
        440433.43   3762815.13       25.80144  (12121808)              440483.43
3762815.13       24.04351  (14121508)
        440533.43   3762815.13       21.81068  (14121508)              440583.43
3762815.13       19.75042  (14121508)
        440633.43   3762815.13       16.14010  (14121508)              440683.43
3762815.13       16.83292  (13121908)
        440733.43   3762815.13       18.34697  (13121908)              440783.43
3762815.13       18.90205  (13121908)
        440833.43   3762815.13       18.99773  (13121908)              440883.43
3762815.13       18.34457  (13121908)
        440933.43   3762815.13       17.50476  (14122508)              440983.43
3762815.13       17.81468  (14122508)
        440433.43   3762865.13       27.27700  (12121808)              440483.43
3762865.13       27.03270  (14121508)
        440533.43   3762865.13       24.52827  (14121508)              440583.43
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0011686 , L0011687 , L0011688 , L0011689 , L0011690 ,
L0011691 , L0011692 , L0011693 , L0011694 , L0011695 , L0011696 , L0011697 , L0011698 ,
L0011699 , L0011700 , L0011701 , L0011702 , L0011703 , L0011704 , L0011705 , L0011706 ,
L0011707 , L0011708 , L0011709 , L0011710 , L0011711 , L0011712 , L0011713 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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- - - - - - - - - - - - - - - - - - - - - - - -
        440461.67   3762143.41       65.73017  (12012708)                440511.67
3762143.41       53.76583  (12012708)
        440561.67   3762143.41       45.37431  (12012708)                440611.67
3762143.41       39.32859  (12012708)
        440406.61   3762008.86       65.48892  (13121808)                440456.61
3762008.86       50.82276  (13121808)
        440506.61   3762008.86       39.98125  (14120208)                440556.61
3762008.86       37.56328  (13020808)
        440606.61   3762008.86       34.86604  (13020808)                440656.61
3762008.86       32.19297  (13020808)
        440706.61   3762008.86       29.73347  (13020808)                440756.61
3762008.86       27.50947  (13020808)
        440806.61   3762008.86       25.37547  (13020808)                440856.61
3762008.86       23.55137  (13020808)
        440906.61   3762008.86       21.90308  (13020808)                440956.61
3762008.86       20.27232  (13020808)
        441006.61   3762008.86       18.74134  (13020808)                441056.61
3762008.86       17.26113  (13020808)
        441106.61   3762008.86       15.89911  (13020808)                441156.61
3762008.86       14.62386  (13020808)
        440406.61   3762058.86       72.30493  (13121808)                440456.61
3762058.86       57.54813  (13020808)
        440506.61   3762058.86       49.56866  (13020808)                440556.61
3762058.86       43.10131  (13020808)
        440606.61   3762058.86       37.95522  (13020808)                440656.61
3762058.86       33.90363  (13020808)
        440706.61   3762058.86       30.64507  (13020808)                440756.61
3762058.86       27.86911  (13020808)
        440806.61   3762058.86       25.37178  (13020808)                440856.61
3762058.86       23.21778  (13020808)
        440906.61   3762058.86       21.26576  (13020808)                440956.61
3762058.86       19.42204  (13020808)
        441006.61   3762058.86       17.90738  (12012708)                441056.61
3762058.86       16.97790  (12012708)
        441106.61   3762058.86       16.13311  (12012708)                441156.61
3762058.86       15.36130  (12012708)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
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                                 PAGE  1189
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                  L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
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                 L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                 L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440407.86   3761497.84       41.31793  (16121608)               439943.36
3761716.33       60.62884  (15120208)
        439170.17   3763092.51       30.86416  (16123008)               439220.17
3763092.51       33.69821  (16123008)
        439270.17   3763092.51       35.43212  (16123008)               439320.17
3763092.51       37.60913  (16123008)
        439370.17   3763092.51       39.04908  (16123008)               439420.17
3763092.51       39.65218  (16123008)
        439470.17   3763092.51       41.14572  (14022508)               439520.17
3763092.51       44.01263  (14022508)
        439570.17   3763092.51       46.87549  (14022508)               439620.17
3763092.51       50.42581  (14022508)
        439670.17   3763092.51       54.44482  (12120608)               439720.17
3763092.51       58.09155  (12120608)
        439770.17   3763092.51       61.23937  (12120608)               439820.17
3763092.51       65.85085  (12120608)
        439870.17   3763092.51       80.16654  (12122608)               439170.17
3763142.51       32.19736  (16123008)
        439220.17   3763142.51       34.52569  (16123008)               439270.17
3763142.51       35.60741  (16123008)
        439320.17   3763142.51       37.39002  (16123008)               439370.17
3763142.51       38.21085  (16123008)
        439420.17   3763142.51       39.42663  (14022508)               439470.17
3763142.51       42.60666  (14022508)
        439520.17   3763142.51       45.32689  (14022508)               439570.17
3763142.51       46.87928  (14022508)
        439620.17   3763142.51       48.92640  (12120608)               439670.17
3763142.51       52.65770  (12120608)
        439720.17   3763142.51       55.10296  (12120608)               439770.17
3763142.51       57.29229  (12120608)
        439820.17   3763142.51       60.97564  (12120608)               439870.17
3763142.51       80.36885  (12122608)
        439170.17   3763192.51       33.06261  (16123008)               439220.17
3763192.51       34.64587  (16123008)
        439270.17   3763192.51       35.22364  (16123008)               439320.17
3763192.51       36.65018  (16123008)
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        439370.17   3763192.51       37.71412  (14022508)                439420.17
3763192.51       39.78875  (14022508)
        439470.17   3763192.51       42.51815  (14022508)                439520.17
3763192.51       44.43263  (14022508)
        439570.17   3763192.51       46.24711  (12120608)                439620.17
3763192.51       47.80746  (12120608)
        439670.17   3763192.51       50.69325  (12120608)                439720.17
3763192.51       52.97610  (12120608)
        439770.17   3763192.51       54.15014  (12122608)                439820.17
3763192.51       62.44630  (12122608)
        439870.17   3763192.51       80.53199  (12122608)                439170.17
3763242.51       33.43750  (16123008)
        439220.17   3763242.51       34.38390  (16123008)                439270.17
3763242.51       34.53773  (16123008)
        439320.17   3763242.51       35.68584  (14022508)                439370.17
3763242.51       38.06311  (14022508)
        439420.17   3763242.51       40.03883  (14022508)                439470.17
3763242.51       42.12531  (14022508)
        439520.17   3763242.51       44.01961  (12120608)                439570.17
3763242.51       45.45763  (12120608)
        439620.17   3763242.51       46.13867  (12120608)                439670.17
3763242.51       47.54429  (12120608)
        439720.17   3763242.51       48.76323  (12120608)                439770.17
3763242.51       54.19137  (12122608)
        439820.17   3763242.51       63.29006  (12122608)                439870.17
3763242.51       81.51138  (12122608)
        439170.17   3763292.51       33.56367  (16123008)                439220.17
3763292.51       34.82726  (16123008)
        439270.17   3763292.51       34.83208  (16123008)                439320.17
3763292.51       36.99607  (14022508)
        439370.17   3763292.51       38.42807  (14022508)                439420.17
3763292.51       40.50552  (14022508)
        439470.17   3763292.51       43.06650  (12120608)                439520.17
3763292.51       45.15722  (12120608)
        439570.17   3763292.51       44.71882  (12120608)                439620.17
3763292.51       45.13077  (12120608)
        439670.17   3763292.51       44.84079  (12120608)                439720.17
3763292.51       47.24370  (12122608)
        439770.17   3763292.51       56.38339  (12122608)                439820.17
3763292.51       64.34817  (12122608)
        439870.17   3763292.51       80.95346  (12122608)                439170.17
3763342.51       33.19235  (16123008)
        439220.17   3763342.51       33.78473  (14121608)                439270.17
3763342.51       35.21259  (14022508)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:25:05

                                PAGE  1190
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 , L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 , L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 , L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	37.13731	(14022508)	439370.17	3763342.51	38.10179	(14022508)
439420.17	3763342.51	40.26829	(12120608)	439470.17	3763342.51	42.64653	(12120608)
439520.17	3763342.51	44.03796	(12120608)	439570.17	3763342.51	43.55673	(12120608)
439620.17	3763342.51	42.28491	(12120608)	439670.17	3763342.51	41.65023	(12120608)
439720.17	3763342.51	47.29286	(12122608)	439770.17	3763342.51	56.20741	(12122608)
439820.17	3763342.51	63.07527	(12122608)	439870.17	3763342.51	78.53381	(12122608)
439170.17	3763392.51	32.50725	(14121608)	439220.17	3763392.51	34.13772	(14121608)
439270.17	3763392.51	35.57698	(14022508)	439320.17	3763392.51	37.46723	(14022508)
439370.17	3763392.51	38.88683	(12120608)	439420.17	3763392.51	41.51231	(12120608)
439470.17	3763392.51	43.27750	(12120608)	439520.17	3763392.51	42.64034	(12120608)
439570.17	3763392.51	41.45345	(12120608)	439620.17	3763392.51	39.62221	(12120608)
439670.17	3763392.51	42.55668	(12122608)	439720.17	3763392.51	47.37718	(12122608)
439770.17	3763392.51	54.05218	(12122608)	439820.17	3763392.51	59.96107	(12122608)
439870.17	3763392.51	76.15963	(14021808)	439170.17	3763442.51	33.22815	(14121608)
439220.17	3763442.51	34.73324	(14121708)	439270.17			

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3763442.51       35.69763  (14121708)
        439320.17   3763442.51       37.18645  (12120608)              439370.17
3763442.51       39.39637  (12120608)
        439420.17   3763442.51       40.78359  (12120608)              439470.17
3763442.51       41.75093  (12120608)
        439520.17   3763442.51       40.65223  (12120608)              439570.17
3763442.51       39.44906  (12120608)
        439620.17   3763442.51       38.08595  (12122608)              439670.17
3763442.51       42.91621  (12122608)
        439720.17   3763442.51       47.67607  (12122608)              439770.17
3763442.51       52.37339  (12122608)
        439820.17   3763442.51       56.07750  (12122608)              439870.17
3763442.51       73.68302  (14021808)
        439203.20   3762911.16       31.07397  (13012508)              439253.20
3762911.16       32.74205  (13012508)
        439303.20   3762911.16       33.90895  (13012508)              439353.20
3762911.16       33.96885  (13012508)
        439403.20   3762911.16       35.54797  (16123008)              439453.20
3762911.16       38.75712  (16123008)
        439503.20   3762911.16       40.89162  (16123008)              439553.20
3762911.16       44.20903  (16123008)
        439203.20   3762961.16       31.16161  (13012508)              439253.20
3762961.16       32.01974  (13012508)
        439303.20   3762961.16       33.74025  (16123008)              439353.20
3762961.16       35.61180  (16123008)
        439403.20   3762961.16       37.35680  (16123008)              439453.20
3762961.16       39.76197  (16123008)
        439503.20   3762961.16       41.24437  (16123008)              439553.20
3762961.16       43.66885  (14022508)
        439203.20   3763011.16       30.99652  (13012508)              439253.20
3763011.16       32.81024  (16123008)
        439303.20   3763011.16       35.34997  (16123008)              439353.20
3763011.16       37.81947  (16123008)
        439403.20   3763011.16       37.57890  (16123008)              439453.20
3763011.16       39.60605  (16123008)
        439503.20   3763011.16       40.64056  (16123008)              439553.20
3763011.16       44.82997  (14022508)
        439203.20   3763061.16       31.80425  (16123008)              439253.20
3763061.16       34.54155  (16123008)
        439303.20   3763061.16       36.82144  (16123008)              439353.20
3763061.16       38.88071  (16123008)
        439403.20   3763061.16       39.97034  (16123008)              439453.20
3763061.16       40.48434  (16123008)
        439503.20   3763061.16       42.64822  (14022508)              439553.20
3763061.16       46.17376  (14022508)
        439196.01   3762392.48       29.83455  (14120908)              439246.01
3762392.48       31.24042  (14120908)
        439296.01   3762392.48       32.77803  (14120908)              439346.01
3762392.48       34.47999  (14120908)
        439396.01   3762392.48       36.37427  (14120908)              439446.01
3762392.48       38.48992  (14120908)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0012164 , L0012165 , L0012166 , L0012167 , L0012168 , L0012169 , L0012170 , L0012171 , L0012172 , L0012173 , L0012174 , L0012175 , L0012176 , L0012177 , L0012178 , L0012179 , L0012180 , L0012181 , L0012182 , L0012183 , L0012184 , L0012185 , L0012186 , L0012187 , L0012188 , L0012189 , L0012190 , L0012191 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	40.95543	(14120908)	439546.01	3762392.48	43.86605	(14120908)
439196.01	3762442.48	28.64486	(14120908)	439246.01	3762442.48	29.94283	(14120908)
439296.01	3762442.48	31.39172	(14120908)	439346.01	3762442.48	32.98821	(14120908)
439396.01	3762442.48	35.07250	(12112808)	439446.01	3762442.48	38.02844	(12112808)
439496.01	3762442.48	41.23541	(12112808)	439546.01	3762442.48	44.75569	(12112808)
439196.01	3762492.48	27.39332	(15121408)	439246.01	3762492.48	29.19431	(12112808)
439296.01	3762492.48	31.36515	(12112808)	439346.01	3762492.48	33.68199	(12112808)
439396.01	3762492.48	36.17540	(12112808)	439446.01	3762492.48	38.85289	(12112808)
439496.01	3762492.48	41.77135	(12112808)	439546.01	3762492.48	45.02059	(12112808)
439196.01	3762542.48	28.40093	(12112808)	439246.01	3762542.48	30.28311	(12112808)
439296.01	3762542.48	32.25444	(12112808)	439346.01	3762542.48	34.35307	(12112808)

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        439396.01   3762542.48       36.59532  (12112808)               439446.01
3762542.48       39.02330  (12112808)
        439496.01   3762542.48       41.69206  (12112808)               439546.01
3762542.48       44.70188  (12112808)
        439196.01   3762592.48       29.07998  (12112808)               439246.01
3762592.48       30.75028  (12112808)
        439296.01   3762592.48       32.52688  (12112808)               439346.01
3762592.48       34.40831  (12112808)
        439396.01   3762592.48       36.41573  (12112808)               439446.01
3762592.48       38.59491  (12112808)
        439496.01   3762592.48       41.01463  (12112808)               439546.01
3762592.48       43.75682  (12112808)
        439196.01   3762642.48       29.22913  (12112808)               439246.01
3762642.48       30.66365  (12112808)
        439296.01   3762642.48       32.27161  (12112808)               439346.01
3762642.48       33.92072  (12112808)
        439396.01   3762642.48       35.68419  (12112808)               439446.01
3762642.48       37.60655  (12112808)
        439496.01   3762642.48       39.69460  (12112808)               439546.01
3762642.48       42.98868  (13012508)
        439196.01   3762692.48       28.83973  (12112808)               439246.01
3762692.48       30.08134  (12112808)
        439296.01   3762692.48       31.36483  (12112808)               439346.01
3762692.48       32.84754  (12112808)
        439396.01   3762692.48       34.47550  (12112808)               439446.01
3762692.48       36.91456  (13012508)
        439496.01   3762692.48       40.26516  (13012508)               439546.01
3762692.48       43.67549  (13012508)
        439196.01   3762742.48       28.09041  (12112808)               439246.01
3762742.48       29.10188  (12112808)
        439296.01   3762742.48       30.95469  (13012508)               439346.01
3762742.48       32.94639  (13012508)
        439396.01   3762742.48       35.15356  (13012508)               439446.01
3762742.48       37.74247  (13012508)
        439496.01   3762742.48       41.04582  (13012508)               439546.01
3762742.48       43.93062  (13012508)
        439196.01   3762792.48       29.22284  (13012508)               439246.01
3762792.48       29.68875  (13012508)
        439296.01   3762792.48       32.27841  (13012508)               439346.01
3762792.48       34.28740  (13012508)
        439396.01   3762792.48       36.24576  (13012508)               439446.01
3762792.48       38.17940  (13012508)
        439496.01   3762792.48       40.92403  (13012508)               439546.01
3762792.48       43.34585  (13012508)
        439196.01   3762842.48       30.25922  (13012508)               439246.01
3762842.48       31.05969  (13012508)
        439296.01   3762842.48       32.61011  (13012508)               439346.01
3762842.48       34.27324  (13012508)
        439396.01   3762842.48       36.10938  (13012508)               439446.01
3762842.48       37.89361  (13012508)
        439496.01   3762842.48       39.98544  (16123008)               439546.01
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0012164   , L0012165
, L0012166   , L0012167   , L0012168   ,
                   L0012169   , L0012170   , L0012171   , L0012172   , L0012173
, L0012174   , L0012175   , L0012176   ,
                   L0012177   , L0012178   , L0012179   , L0012180   , L0012181
, L0012182   , L0012183   , L0012184   ,
                   L0012185   , L0012186   , L0012187   , L0012188   , L0012189
, L0012190   , L0012191   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439873.31   3762470.54   107.87303 (12013008)   439573.31
3762520.54   46.80543 (12112808)
        439623.31   3762520.54   50.73827 (12112808)   439673.31
3762520.54   55.51904 (12112808)
        439723.31   3762520.54   61.59392 (12112808)   439773.31
3762520.54   69.78845 (12112808)
        439823.31   3762520.54   82.72148 (13012508)   439873.31
3762520.54   106.62442 (14021908)
        439573.31   3762570.54   45.99833 (12112808)   439623.31
3762570.54   49.64378 (12112808)
        439673.31   3762570.54   54.29218 (13012508)   439723.31
3762570.54   61.14034 (13012508)
        439773.31   3762570.54   70.14673 (13012508)   439823.31
3762570.54   82.92760 (13012508)
        439873.31   3762570.54   106.82242 (14022508)   439573.31

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3762620.54       44.91035  (13012508)
        439623.31   3762620.54       49.44065  (13012508)                439673.31
3762620.54       54.82339  (13012508)
        439723.31   3762620.54       61.26599  (13012508)                439773.31
3762620.54       69.61975  (13012508)
        439823.31   3762620.54       81.41129  (13012508)                439873.31
3762620.54      109.27600  (14022508)
        439573.31   3762670.54       45.45714  (13012508)                439623.31
3762670.54       49.98842  (13012508)
        439673.31   3762670.54       54.69554  (13012508)                439723.31
3762670.54       60.52528  (13012508)
        439773.31   3762670.54       68.59243  (16123008)                439823.31
3762670.54       81.70286  (16123008)
        439873.31   3762670.54      110.30595  (14022508)                439152.35
3761448.92       23.96095  (16012708)
        439202.35   3761448.92       25.11533  (16012708)                439252.35
3761448.92       26.18198  (16012708)
        439302.35   3761448.92       26.99253  (16012708)                439352.35
3761448.92       27.49380  (16012708)
        439402.35   3761448.92       29.52945  (16011108)                439452.35
3761448.92       31.53192  (16011108)
        439502.35   3761448.92       33.46534  (13112508)                439552.35
3761448.92       35.61527  (13112508)
        439152.35   3761498.92       23.79666  (16012708)                439202.35
3761498.92       25.35801  (16012708)
        439252.35   3761498.92       26.89620  (16012708)                439302.35
3761498.92       28.07467  (16012708)
        439352.35   3761498.92       29.01603  (16012708)                439402.35
3761498.92       29.61926  (16012708)
        439452.35   3761498.92       31.79423  (16011108)                439502.35
3761498.92       34.20451  (16011108)
        439552.35   3761498.92       36.54549  (13112508)                439152.35
3761548.92       23.90311  (13021208)
        439202.35   3761548.92       25.07801  (16012708)                439252.35
3761548.92       26.91011  (16012708)
        439302.35   3761548.92       28.52342  (16012708)                439352.35
3761548.92       29.93146  (16012708)
        439402.35   3761548.92       31.17681  (16012708)                439452.35
3761548.92       32.01764  (16012708)
        439502.35   3761548.92       34.51424  (16011108)                439552.35
3761548.92       37.18259  (16011108)
        439152.35   3761598.92       25.07859  (13021208)                439202.35
3761598.92       25.70026  (13021208)
        439252.35   3761598.92       26.45652  (16012708)                439302.35
3761598.92       28.50943  (16012708)
        439352.35   3761598.92       30.39359  (16012708)                439402.35
3761598.92       32.26639  (16012708)
        439452.35   3761598.92       33.86005  (16012708)                439502.35
3761598.92       34.92916  (16012708)
        439552.35   3761598.92       37.90137  (16011108)                439152.35
3761648.92       25.75703  (14122608)
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        439202.35   3761648.92       26.77100  (13021208)                439252.35
3761648.92       27.73980  (13021208)
        439302.35   3761648.92       28.51935  (13021208)                439352.35
3761648.92       30.35965  (16012708)
        439402.35   3761648.92       32.77464  (16012708)                439452.35
3761648.92       35.02909  (16012708)
        439502.35   3761648.92       37.05855  (16012708)                439552.35
3761648.92       38.62720  (16012708)
        439152.35   3761698.92       27.18023  (16112908)                439202.35
3761698.92       27.85804  (16112908)
        439252.35   3761698.92       28.55058  (13021208)                439302.35
3761698.92       29.87393  (13021208)
        439352.35   3761698.92       31.06162  (13021208)                439402.35
3761698.92       32.59553  (16012708)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***         03/30/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        17:25:05

                                PAGE  1193
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                  L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
                  L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                  L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439452.35   3761698.92       35.32106  (16012708)                439502.35
3761698.92       38.25540  (16012708)
        439552.35   3761698.92       40.90320  (16012708)                439152.35
3761748.92       27.96370  (16112908)
        439202.35   3761748.92       29.10080  (16112908)                439252.35
3761748.92       30.04743  (16112908)
        439302.35   3761748.92       31.09124  (16112908)                439352.35
3761748.92       32.23067  (13021208)
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        439402.35   3761748.92       33.87599  (13021208)              439452.35
3761748.92       35.24285  (13021208)
        439502.35   3761748.92       38.17670  (16012708)              439552.35
3761748.92       41.87481  (16012708)
        439152.35   3761798.92       28.08878  (16112908)              439202.35
3761798.92       29.61584  (16112908)
        439252.35   3761798.92       31.06488  (16112908)              439302.35
3761798.92       32.65874  (16112908)
        439352.35   3761798.92       33.97636  (16112908)              439402.35
3761798.92       35.30293  (16112908)
        439452.35   3761798.92       37.06993  (13021208)              439502.35
3761798.92       38.97148  (13021208)
        439552.35   3761798.92       41.84382  (16012708)              439152.35
3761848.92       27.60426  (16112908)
        439202.35   3761848.92       29.34679  (16112908)              439252.35
3761848.92       31.07601  (16112908)
        439302.35   3761848.92       33.02128  (16112908)              439352.35
3761848.92       34.87188  (16112908)
        439402.35   3761848.92       37.10563  (16112908)              439452.35
3761848.92       39.14284  (16112908)
        439502.35   3761848.92       40.79094  (16112908)              439552.35
3761848.92       43.55296  (13021208)
        439152.35   3761898.92       26.65438  (16112908)              439202.35
3761898.92       28.47337  (16112908)
        439252.35   3761898.92       30.36497  (16112908)              439302.35
3761898.92       32.67963  (16112908)
        439352.35   3761898.92       34.98909  (16112908)              439402.35
3761898.92       37.49945  (16112908)
        439452.35   3761898.92       40.45286  (16112908)              439502.35
3761898.92       43.37165  (16112908)
        439552.35   3761898.92       46.44195  (16112908)              439152.35
3761948.92       25.33382  (16112908)
        439202.35   3761948.92       27.14730  (16112908)              439252.35
3761948.92       29.06663  (16112908)
        439302.35   3761948.92       31.49922  (16112908)              439352.35
3761948.92       34.04320  (16112908)
        439402.35   3761948.92       36.74520  (16112908)              439452.35
3761948.92       40.10826  (16112908)
        439502.35   3761948.92       43.76133  (16112908)              439552.35
3761948.92       47.82461  (16112908)
        439152.35   3761998.92       25.17278  (16011208)              439202.35
3761998.92       26.53948  (16011208)
        439252.35   3761998.92       28.01271  (16011208)              439302.35
3761998.92       29.84606  (16112908)
        439352.35   3761998.92       32.46061  (16112908)              439402.35
3761998.92       35.14394  (16112908)
        439452.35   3761998.92       38.42089  (16112908)              439502.35
3761998.92       42.18703  (16112908)
        439552.35   3761998.92       46.65153  (16112908)              439152.35
3762048.92       24.63959  (16011208)
        439202.35   3762048.92       26.12613  (16011208)              439252.35
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3762048.92   27.75554 (16011208)
        439302.35   3762048.92   29.57259 (16011208)   439352.35
3762048.92   31.59911 (16011208)
        439402.35   3762048.92   33.85066 (16011208)   439452.35
3762048.92   36.49243 (16011208)
        439502.35   3762048.92   39.99288 (16112908)   439552.35
3762048.92   44.26744 (16112908)
        439616.61   3761420.65   36.82179 (15012208)   439666.61
3761420.65   40.44141 (15012208)
        439716.61   3761420.65   43.69455 (15012208)   439766.61
3761420.65   47.26672 (14120808)
        439816.61   3761420.65   53.90689 (14120808)   439866.61
3761420.65   70.60779 (16122008)
        439616.61   3761470.65   38.39831 (13112508)   439666.61
3761470.65   41.25679 (15012208)
        439716.61   3761470.65   45.30268 (15012208)   439766.61
3761470.65   49.33705 (15012208)
        439816.61   3761470.65   57.06159 (14120808)   439866.61
3761470.65   80.26679 (15120208)
        439616.61   3761520.65   40.17183 (13112508)   439666.61
3761520.65   42.21525 (13112508)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                INCLUDING SOURCE(S):   L0012164   , L0012165
, L0012166   , L0012167   , L0012168   ,
                   L0012169   , L0012170   , L0012171   , L0012172   , L0012173
, L0012174   , L0012175   , L0012176   ,
                   L0012177   , L0012178   , L0012179   , L0012180   , L0012181
, L0012182   , L0012183   , L0012184   ,
                   L0012185   , L0012186   , L0012187   , L0012188   , L0012189
, L0012190   , L0012191   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439716.61   3761520.65   46.74955 (15012208)   439766.61

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3761520.65       51.91733  (15012208)
        439816.61   3761520.65       60.24134  (14120808)                439866.61
3761520.65       84.30238  (16020508)
        439616.61   3761570.65       41.58016  (13112508)                439666.61
3761570.65       44.62440  (13112508)
        439716.61   3761570.65       47.97968  (15012208)                439766.61
3761570.65       54.26519  (15012208)
        439816.61   3761570.65       63.01193  (14120808)                439866.61
3761570.65       86.92483  (14120808)
        440451.14   3762893.83       61.51799  (14121508)                440501.14
3762893.83       55.34623  (14121508)
        440551.14   3762893.83       48.45547  (14121508)                440601.14
3762893.83       42.02513  (14121508)
        440651.14   3762893.83       34.55173  (14121508)                440701.14
3762893.83       31.54222  (13121908)
        440751.14   3762893.83       31.43188  (13121908)                440801.14
3762893.83       31.28905  (14122508)
        440851.14   3762893.83       30.93567  (14122508)                440451.14
3762943.83       58.96534  (14121508)
        440501.14   3762943.83       57.17258  (14121508)                440551.14
3762943.83       51.34249  (14121508)
        440601.14   3762943.83       45.61706  (14121508)                440651.14
3762943.83       37.32628  (14121508)
        440701.14   3762943.83       29.63518  (14121508)                440751.14
3762943.83       29.10183  (13121908)
        440801.14   3762943.83       29.67247  (13121908)                440851.14
3762943.83       30.83691  (14122508)
        441116.67   3763135.31       25.96895  (14122508)                441166.67
3763135.31       26.30778  (14122508)
        441116.67   3763185.31       23.84785  (14122508)                441166.67
3763185.31       24.15031  (14122508)
        441116.67   3763235.31       21.56447  (14122508)                441166.67
3763235.31       22.03005  (14122508)
        441116.67   3763285.31       20.43454  (14122508)                441166.67
3763285.31       20.45308  (13121908)
        441116.67   3763335.31       18.91413  (13121908)                441166.67
3763335.31       19.26538  (13121908)
        441116.67   3763385.31       17.50787  (13121908)                441166.67
3763385.31       18.00737  (13121908)
        441116.67   3763435.31       16.07684  (13121908)                441166.67
3763435.31       16.66975  (13121908)
        440433.43   3762815.13       60.61341  (14121508)                440483.43
3762815.13       52.13020  (14121508)
        440533.43   3762815.13       43.96603  (14121508)                440583.43
3762815.13       38.00043  (14121508)
        440633.43   3762815.13       35.33554  (13121908)                440683.43
3762815.13       35.09947  (13121908)
        440733.43   3762815.13       35.18746  (14122508)                440783.43
3762815.13       35.09767  (14122508)
        440833.43   3762815.13       36.01109  (14122508)                440883.43
3762815.13       36.16588  (14122508)
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        440933.43   3762815.13       34.55337  (14122508)                440983.43
3762815.13       33.42409  (14122508)
        440433.43   3762865.13       61.88224  (14121508)                440483.43
3762865.13       55.41600  (14121508)
        440533.43   3762865.13       47.63254  (14121508)                440583.43
3762865.13       41.11144  (14121508)
        440633.43   3762865.13       35.10310  (14121508)                440683.43
3762865.13       32.65475  (13121908)
        440733.43   3762865.13       32.74186  (13121908)                440783.43
3762865.13       32.68763  (14122508)
        440833.43   3762865.13       32.38372  (14122508)                440883.43
3762865.13       32.17025  (14122508)
        440933.43   3762865.13       31.56095  (14122508)                440983.43
3762865.13       31.40859  (14122508)
        441118.27   3762686.02       30.72530  (13020508)                441168.27
3762686.02       29.32315  (13020508)
        441118.27   3762736.02       30.39547  (13020508)                441168.27
3762736.02       28.91533  (13020508)
        441118.27   3762786.02       29.65797  (13020608)                441168.27
3762786.02       28.03577  (13020508)
        441118.27   3762836.02       29.50699  (14122508)                441168.27
3762836.02       27.92497  (14122508)
        440411.67   3762093.41      114.66783  (14120208)                440461.67
3762093.41       96.85190  (12012708)
        440511.67   3762093.41       86.80155  (12012708)                440561.67
3762093.41       80.06722  (12013008)
        440611.67   3762093.41       75.44338  (12013008)                440411.67
3762143.41      109.01344  (12012708)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        03/30/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        17:25:05

                                PAGE  1195
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                  INCLUDING SOURCE(S):     L0012164    , L0012165
, L0012166    , L0012167    , L0012168    ,
                  L0012169    , L0012170    , L0012171    , L0012172    , L0012173
, L0012174    , L0012175    , L0012176    ,
                  L0012177    , L0012178    , L0012179    , L0012180    , L0012181
, L0012182    , L0012183    , L0012184    ,
                  L0012185    , L0012186    , L0012187    , L0012188    , L0012189
, L0012190    , L0012191    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
P1ONSITE	1ST HIGHEST VALUE IS	1.21998 AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC	
	2ND HIGHEST VALUE IS	0.98413 AT (440433.43, 3762865.13, 220.29, 220.29, 0.00)	DC	
	3RD HIGHEST VALUE IS	0.89698 AT (439873.31, 3762470.54, 214.70, 214.70, 0.00)	DC	
	4TH HIGHEST VALUE IS	0.89566 AT (439873.31, 3762520.54, 215.18, 215.18, 0.00)	DC	
	5TH HIGHEST VALUE IS	0.88012 AT (439873.31, 3762570.54, 215.86, 215.86, 0.00)	DC	
	6TH HIGHEST VALUE IS	0.85534 AT (439873.31, 3762620.54, 216.53, 216.53, 0.00)	DC	
	7TH HIGHEST VALUE IS	0.83936 AT (440483.43, 3762815.13, 219.43, 219.43, 0.00)	DC	
	8TH HIGHEST VALUE IS	0.82910 AT (439873.31, 3762670.54, 217.06, 217.06, 0.00)	DC	
	9TH HIGHEST VALUE IS	0.71336 AT (440451.14, 3762893.83, 220.74, 220.74, 0.00)	DC	
	10TH HIGHEST VALUE IS	0.70349 AT (440483.43, 3762865.13, 220.09, 220.09, 0.00)	DC	
P1OFFSIT	1ST HIGHEST VALUE IS	3.06911 AT (440411.67, 3762093.41, 211.84, 211.84, 0.00)	DC	
	2ND HIGHEST VALUE IS	3.05806 AT (440461.67, 3762093.41, 211.67, 211.67, 0.00)	DC	
	3RD HIGHEST VALUE IS	3.04803 AT (440511.67, 3762093.41, 211.78, 211.78, 0.00)	DC	
	4TH HIGHEST VALUE IS	3.03996 AT (440561.67, 3762093.41, 211.77, 211.77, 0.00)	DC	
	5TH HIGHEST VALUE IS	3.03259 AT (440611.67, 3762093.41, 211.64, 211.64, 0.00)	DC	
	6TH HIGHEST VALUE IS	2.65570 AT (440406.61, 3762058.86, 211.32, 211.32, 0.00)	DC	
	7TH HIGHEST VALUE IS	2.64227 AT (440456.61, 3762058.86, 211.24, 211.24, 0.00)	DC	
	8TH HIGHEST VALUE IS	2.63465 AT (440506.61, 3762058.86, 211.29, 211.29, 0.00)	DC	
	9TH HIGHEST VALUE IS	2.62499 AT (440556.61, 3762058.86, 211.31,		

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  211.31,    0.00)  DC
        10TH HIGHEST VALUE IS       2.61951 AT (  440606.61,  3762058.86,   211.25,
  211.25,    0.00)  DC

P2ONSITE  1ST HIGHEST VALUE IS      3.11472 AT (  440411.67,  3762143.41,   212.66,
  212.66,    0.00)  DC
         2ND HIGHEST VALUE IS       2.15718 AT (  440411.67,  3762093.41,   211.84,
  211.84,    0.00)  DC
         3RD HIGHEST VALUE IS       1.76820 AT (  440461.67,  3762143.41,   212.34,
  212.34,    0.00)  DC
         4TH HIGHEST VALUE IS       1.43960 AT (  440406.61,  3762058.86,   211.32,
  211.32,    0.00)  DC
         5TH HIGHEST VALUE IS       1.30698 AT (  440461.67,  3762093.41,   211.67,
  211.67,    0.00)  DC
         6TH HIGHEST VALUE IS       1.17325 AT (  440511.67,  3762143.41,   212.45,
  212.45,    0.00)  DC
         7TH HIGHEST VALUE IS       1.00958 AT (  440456.61,  3762058.86,   211.24,
  211.24,    0.00)  DC
         8TH HIGHEST VALUE IS       0.91347 AT (  440511.67,  3762093.41,   211.78,
  211.78,    0.00)  DC
         9TH HIGHEST VALUE IS       0.84859 AT (  440561.67,  3762143.41,   212.23,
  212.23,    0.00)  DC
        10TH HIGHEST VALUE IS       0.82617 AT (  440406.61,  3762008.86,   210.47,
  210.47,    0.00)  DC

ALL       1ST HIGHEST VALUE IS      5.47781 AT (  440411.67,  3762093.41,   211.84,
  211.84,    0.00)  DC
         2ND HIGHEST VALUE IS       4.58606 AT (  440461.67,  3762093.41,   211.67,
  211.67,    0.00)  DC
         3RD HIGHEST VALUE IS       4.31053 AT (  440406.61,  3762058.86,   211.32,
  211.32,    0.00)  DC
         4TH HIGHEST VALUE IS       4.27694 AT (  440411.67,  3762143.41,   212.66,
  212.66,    0.00)  DC
         5TH HIGHEST VALUE IS       4.15681 AT (  440511.67,  3762093.41,   211.78,
  211.78,    0.00)  DC
         6TH HIGHEST VALUE IS       3.89904 AT (  440561.67,  3762093.41,   211.77,
  211.77,    0.00)  DC
         7TH HIGHEST VALUE IS       3.84433 AT (  440456.61,  3762058.86,   211.24,
  211.24,    0.00)  DC
         8TH HIGHEST VALUE IS       3.72542 AT (  440611.67,  3762093.41,   211.64,
  211.64,    0.00)  DC
         9TH HIGHEST VALUE IS       3.55965 AT (  440506.61,  3762058.86,   211.29,
  211.29,    0.00)  DC
        10TH HIGHEST VALUE IS       3.37957 AT (  439873.31,  3762470.54,   214.70,
  214.70,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	NETWORK OF TYPE	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	GRID-ID
P1ONSITE HIGH 1ST HIGH VALUE IS	42.23066	ON 13021208:	AT	(439873.31, 3762470.54, 214.70, 214.70, 0.00)	DC
P1OFFSIT HIGH 1ST HIGH VALUE IS	58.75633	ON 12013008:	AT	(439866.61, 3761570.65, 205.51, 205.51, 0.00)	DC
P2ONSITE HIGH 1ST HIGH VALUE IS	83.68383	ON 12012708:	AT	(440411.67, 3762143.41, 212.66, 212.66, 0.00)	DC
ALL HIGH 1ST HIGH VALUE IS	125.51514	ON 15011608:	AT	(440406.61, 3762058.86, 211.32, 211.32, 0.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

```
A Total of            0 Fatal Error Message(s)
A Total of            2 Warning Message(s)
A Total of         1279 Informational Message(s)

A Total of        43848 Hours Were Processed

A Total of          917 Calm Hours Identified

A Total of          362 Missing Hours Identified (  0.83 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186   15549       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187   15549       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/3/2023
** File: C:\Lakes\OntarioEuclid_Phase1Ops\OntarioEuclid_Phase1Ops.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid Phase1Ops
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_Phase1Ops.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Building 1 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330408
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439979.680, 3762795.008, 219.39, 3.11, 6.98
** 440019.164, 3762795.008, 219.45, 3.11, 6.98
** ------------------------------------------------------------------------
   LOCATION L0011959     VOLUME   439987.180 3762795.008 219.43
   LOCATION L0011960     VOLUME   440002.180 3762795.008 219.45
```

```
   LOCATION L0011961     VOLUME   440017.180 3762795.008 219.47
** End of LINE VOLUME Source ID = SLINE26
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Building 2 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330416
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439977.938, 3762735.201, 218.71, 3.11, 6.98
** 440018.584, 3762735.201, 218.82, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0011962     VOLUME   439985.438 3762735.201 218.79
   LOCATION L0011963     VOLUME   440000.438 3762735.201 218.84
   LOCATION L0011964     VOLUME   440015.438 3762735.201 218.88
** End of LINE VOLUME Source ID = SLINE27
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Building 3 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330399
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439995.358, 3762633.007, 217.26, 3.11, 6.98
** 439995.938, 3762581.909, 216.46, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0011953     VOLUME   439995.443 3762625.507 217.14
   LOCATION L0011954     VOLUME   439995.613 3762610.508 216.95
   LOCATION L0011955     VOLUME   439995.784 3762595.509 216.73
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Building 4 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330427
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440075.488, 3762801.976, 219.54, 3.11, 6.98
** 440117.294, 3762801.976, 219.49, 3.11, 6.98
```

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** ----------------------------------------------------------------------
   LOCATION L0011965     VOLUME   440082.988 3762801.976 219.48
   LOCATION L0011966     VOLUME   440097.988 3762801.976 219.47
   LOCATION L0011967     VOLUME   440112.988 3762801.976 219.49
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Building 5 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1508732
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440078.391, 3762717.201, 218.56, 3.11, 6.98
** 440078.391, 3762659.136, 217.97, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0011968     VOLUME   440078.391 3762709.701 218.57
   LOCATION L0011969     VOLUME   440078.391 3762694.701 218.38
   LOCATION L0011970     VOLUME   440078.391 3762679.701 218.18
   LOCATION L0011971     VOLUME   440078.391 3762664.701 218.00
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC Building 6 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1839182
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440237.489, 3762788.041, 219.93, 3.11, 6.98
** 440238.651, 3762709.653, 219.12, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0011972     VOLUME   440237.600 3762780.541 219.88
   LOCATION L0011973     VOLUME   440237.823 3762765.543 219.78
   LOCATION L0011974     VOLUME   440238.045 3762750.545 219.62
   LOCATION L0011975     VOLUME   440238.267 3762735.546 219.44
   LOCATION L0011976     VOLUME   440238.489 3762720.548 219.27
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Building 7 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
```

```
** Emission Rate = 0.0660826
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440296.716, 3762795.008, 219.86, 3.11, 6.98
** 440296.716, 3762742.169, 218.72, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0011977     VOLUME   440296.716 3762787.508 219.78
   LOCATION L0011978     VOLUME   440296.716 3762772.508 219.34
   LOCATION L0011979     VOLUME   440296.716 3762757.508 218.93
   LOCATION L0011980     VOLUME   440296.716 3762742.508 218.70
** End of LINE VOLUME Source ID = SLINE32
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Building 8 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.150874
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440246.780, 3762543.586, 214.83, 3.11, 6.98
** 440301.942, 3762543.586, 214.44, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0011981     VOLUME   440254.280 3762543.586 214.62
   LOCATION L0011982     VOLUME   440269.280 3762543.586 214.34
   LOCATION L0011983     VOLUME   440284.280 3762543.586 214.39
   LOCATION L0011984     VOLUME   440299.280 3762543.586 214.40
** End of LINE VOLUME Source ID = SLINE33
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Building 9  Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.150876
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440053.423, 3762439.650, 215.38, 3.11, 6.98
** 440121.359, 3762440.230, 215.09, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0011985     VOLUME   440060.923 3762439.714 215.39
   LOCATION L0011986     VOLUME   440075.922 3762439.842 215.27
   LOCATION L0011987     VOLUME   440090.921 3762439.970 215.16
   LOCATION L0011988     VOLUME   440105.921 3762440.098 215.11
   LOCATION L0011989     VOLUME   440120.920 3762440.227 215.12
** End of LINE VOLUME Source ID = SLINE34
```

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** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Building 10 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330475
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440051.681, 3762374.617, 214.11, 3.11, 6.98
** 440121.940, 3762375.778, 214.33, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0011990     VOLUME   440059.180 3762374.741 214.42
   LOCATION L0011991     VOLUME   440074.178 3762374.989 214.38
   LOCATION L0011992     VOLUME   440089.176 3762375.237 214.35
   LOCATION L0011993     VOLUME   440104.174 3762375.484 214.32
   LOCATION L0011994     VOLUME   440119.172 3762375.732 214.26
** End of LINE VOLUME Source ID = SLINE35
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC Building 11 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330382
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 2
** 439969.228, 3762487.263, 214.84, 0.52, 6.98
** 439995.938, 3762463.456, 214.83, 0.52, 6.98
** ------------------------------------------------------------------
   LOCATION L0011995     VOLUME   439974.827 3762482.273 214.89
   LOCATION L0011996     VOLUME   439986.025 3762472.292 214.87
** End of LINE VOLUME Source ID = SLINE36
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Building 12 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330377
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439972.712, 3762357.197, 213.29, 3.11, 6.98
** 439994.196, 3762332.229, 213.46, 3.11, 6.98
** ------------------------------------------------------------------
```

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   LOCATION L0011997     VOLUME   439977.604 3762351.512 213.39
   LOCATION L0011998     VOLUME   439987.388 3762340.142 213.51
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Building 13 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0660877
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440018.003, 3762237.583, 212.71, 3.11, 6.98
** 440088.262, 3762238.164, 212.91, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0011999     VOLUME   440025.503 3762237.645 212.81
   LOCATION L0012000     VOLUME   440040.502 3762237.769 212.89
   LOCATION L0012001     VOLUME   440055.502 3762237.893 212.91
   LOCATION L0012002     VOLUME   440070.501 3762238.017 212.92
   LOCATION L0012003     VOLUME   440085.501 3762238.141 212.91
** End of LINE VOLUME Source ID = SLINE38
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE19
** DESCRSRC Schaefer btwn Euclid & Sultana
** PREFIX
** Length of Side = 13.00
** Configuration = Adjacent
** Emission Rate = 0.070456918
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439910.981, 3762880.968, 220.43, 3.11, 6.05
** 440369.873, 3762879.519, 221.00, 3.11, 6.05
** ----------------------------------------------------------------------
   LOCATION L0012462     VOLUME   439917.481 3762880.948 220.41
   LOCATION L0012463     VOLUME   439930.481 3762880.907 220.52
   LOCATION L0012464     VOLUME   439943.481 3762880.866 220.58
   LOCATION L0012465     VOLUME   439956.481 3762880.825 220.56
   LOCATION L0012466     VOLUME   439969.481 3762880.783 220.56
   LOCATION L0012467     VOLUME   439982.481 3762880.742 220.59
   LOCATION L0012468     VOLUME   439995.481 3762880.701 220.60
   LOCATION L0012469     VOLUME   440008.481 3762880.660 220.58
   LOCATION L0012470     VOLUME   440021.481 3762880.619 220.54
   LOCATION L0012471     VOLUME   440034.480 3762880.578 220.49
   LOCATION L0012472     VOLUME   440047.480 3762880.537 220.47
   LOCATION L0012473     VOLUME   440060.480 3762880.496 220.50
   LOCATION L0012474     VOLUME   440073.480 3762880.455 220.56
   LOCATION L0012475     VOLUME   440086.480 3762880.414 220.65
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   LOCATION L0012476     VOLUME   440099.480 3762880.373 220.72
   LOCATION L0012477     VOLUME   440112.480 3762880.332 220.77
   LOCATION L0012478     VOLUME   440125.480 3762880.291 220.82
   LOCATION L0012479     VOLUME   440138.480 3762880.250 220.87
   LOCATION L0012480     VOLUME   440151.480 3762880.209 220.92
   LOCATION L0012481     VOLUME   440164.480 3762880.168 220.97
   LOCATION L0012482     VOLUME   440177.480 3762880.127 221.00
   LOCATION L0012483     VOLUME   440190.480 3762880.086 221.02
   LOCATION L0012484     VOLUME   440203.480 3762880.045 221.04
   LOCATION L0012485     VOLUME   440216.480 3762880.003 221.05
   LOCATION L0012486     VOLUME   440229.479 3762879.962 221.06
   LOCATION L0012487     VOLUME   440242.479 3762879.921 221.08
   LOCATION L0012488     VOLUME   440255.479 3762879.880 221.11
   LOCATION L0012489     VOLUME   440268.479 3762879.839 221.15
   LOCATION L0012490     VOLUME   440281.479 3762879.798 221.17
   LOCATION L0012491     VOLUME   440294.479 3762879.757 221.19
   LOCATION L0012492     VOLUME   440307.479 3762879.716 221.19
   LOCATION L0012493     VOLUME   440320.479 3762879.675 221.19
   LOCATION L0012494     VOLUME   440333.479 3762879.634 221.19
   LOCATION L0012495     VOLUME   440346.479 3762879.593 221.19
   LOCATION L0012496     VOLUME   440359.479 3762879.552 221.08
** End of LINE VOLUME Source ID = SLINE19
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE20
** DESCRSRC Sultana btwn Schaefer & Edison
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.112287945
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440370.861, 3762872.001, 220.82, 3.11, 5.58
** 440388.866, 3762079.941, 211.66, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0012532     VOLUME   440370.997 3762866.003 220.76
   LOCATION L0012533     VOLUME   440371.270 3762854.006 220.57
   LOCATION L0012534     VOLUME   440371.543 3762842.009 220.42
   LOCATION L0012535     VOLUME   440371.815 3762830.012 220.28
   LOCATION L0012536     VOLUME   440372.088 3762818.015 220.15
   LOCATION L0012537     VOLUME   440372.361 3762806.018 220.02
   LOCATION L0012538     VOLUME   440372.633 3762794.021 219.89
   LOCATION L0012539     VOLUME   440372.906 3762782.025 219.76
   LOCATION L0012540     VOLUME   440373.179 3762770.028 219.63
   LOCATION L0012541     VOLUME   440373.452 3762758.031 219.50
   LOCATION L0012542     VOLUME   440373.724 3762746.034 219.38
   LOCATION L0012543     VOLUME   440373.997 3762734.037 219.25
   LOCATION L0012544     VOLUME   440374.270 3762722.040 219.11
   LOCATION L0012545     VOLUME   440374.542 3762710.043 218.97
   LOCATION L0012546     VOLUME   440374.815 3762698.046 218.83
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LOCATION L0012547     VOLUME   440375.088 3762686.049 218.74
LOCATION L0012548     VOLUME   440375.361 3762674.052 218.65
LOCATION L0012549     VOLUME   440375.633 3762662.056 218.55
LOCATION L0012550     VOLUME   440375.906 3762650.059 218.44
LOCATION L0012551     VOLUME   440376.179 3762638.062 218.33
LOCATION L0012552     VOLUME   440376.452 3762626.065 218.22
LOCATION L0012553     VOLUME   440376.724 3762614.068 218.10
LOCATION L0012554     VOLUME   440376.997 3762602.071 217.95
LOCATION L0012555     VOLUME   440377.270 3762590.074 217.76
LOCATION L0012556     VOLUME   440377.542 3762578.077 217.56
LOCATION L0012557     VOLUME   440377.815 3762566.080 217.44
LOCATION L0012558     VOLUME   440378.088 3762554.083 217.34
LOCATION L0012559     VOLUME   440378.361 3762542.087 217.29
LOCATION L0012560     VOLUME   440378.633 3762530.090 217.43
LOCATION L0012561     VOLUME   440378.906 3762518.093 217.57
LOCATION L0012562     VOLUME   440379.179 3762506.096 217.58
LOCATION L0012563     VOLUME   440379.451 3762494.099 217.51
LOCATION L0012564     VOLUME   440379.724 3762482.102 217.42
LOCATION L0012565     VOLUME   440379.997 3762470.105 216.81
LOCATION L0012566     VOLUME   440380.270 3762458.108 216.22
LOCATION L0012567     VOLUME   440380.542 3762446.111 215.82
LOCATION L0012568     VOLUME   440380.815 3762434.114 215.62
LOCATION L0012569     VOLUME   440381.088 3762422.118 215.42
LOCATION L0012570     VOLUME   440381.361 3762410.121 215.24
LOCATION L0012571     VOLUME   440381.633 3762398.124 215.06
LOCATION L0012572     VOLUME   440381.906 3762386.127 214.90
LOCATION L0012573     VOLUME   440382.179 3762374.130 214.81
LOCATION L0012574     VOLUME   440382.451 3762362.133 214.71
LOCATION L0012575     VOLUME   440382.724 3762350.136 214.62
LOCATION L0012576     VOLUME   440382.997 3762338.139 214.54
LOCATION L0012577     VOLUME   440383.270 3762326.142 214.43
LOCATION L0012578     VOLUME   440383.542 3762314.145 214.25
LOCATION L0012579     VOLUME   440383.815 3762302.149 214.06
LOCATION L0012580     VOLUME   440384.088 3762290.152 213.89
LOCATION L0012581     VOLUME   440384.361 3762278.155 213.72
LOCATION L0012582     VOLUME   440384.633 3762266.158 213.56
LOCATION L0012583     VOLUME   440384.906 3762254.161 213.46
LOCATION L0012584     VOLUME   440385.179 3762242.164 213.37
LOCATION L0012585     VOLUME   440385.451 3762230.167 213.29
LOCATION L0012586     VOLUME   440385.724 3762218.170 213.22
LOCATION L0012587     VOLUME   440385.997 3762206.173 213.15
LOCATION L0012588     VOLUME   440386.270 3762194.176 213.06
LOCATION L0012589     VOLUME   440386.542 3762182.180 212.97
LOCATION L0012590     VOLUME   440386.815 3762170.183 212.86
LOCATION L0012591     VOLUME   440387.088 3762158.186 212.71
LOCATION L0012592     VOLUME   440387.360 3762146.189 212.56
LOCATION L0012593     VOLUME   440387.633 3762134.192 212.36
LOCATION L0012594     VOLUME   440387.906 3762122.195 212.14
LOCATION L0012595     VOLUME   440388.179 3762110.198 211.95
LOCATION L0012596     VOLUME   440388.451 3762098.201 211.82
LOCATION L0012597     VOLUME   440388.724 3762086.204 211.69
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** End of LINE VOLUME Source ID = SLINE20
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE24
** DESCRSRC Euclid btwn Schaefer &Edison
** PREFIX
** Length of Side = 27.00
** Configuration = Adjacent
** Emission Rate = 0.254465488
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439896.782, 3762874.682, 220.09, 3.11, 12.56
** 439899.515, 3762076.692, 210.14, 3.11, 12.56
** ----------------------------------------------------------------------
   LOCATION L0012724     VOLUME   439896.828 3762861.182 219.98
   LOCATION L0012725     VOLUME   439896.920 3762834.183 219.58
   LOCATION L0012726     VOLUME   439897.013 3762807.183 219.19
   LOCATION L0012727     VOLUME   439897.105 3762780.183 218.80
   LOCATION L0012728     VOLUME   439897.198 3762753.183 218.42
   LOCATION L0012729     VOLUME   439897.290 3762726.183 218.06
   LOCATION L0012730     VOLUME   439897.383 3762699.183 217.70
   LOCATION L0012731     VOLUME   439897.475 3762672.183 217.31
   LOCATION L0012732     VOLUME   439897.568 3762645.184 216.99
   LOCATION L0012733     VOLUME   439897.660 3762618.184 216.64
   LOCATION L0012734     VOLUME   439897.753 3762591.184 216.29
   LOCATION L0012735     VOLUME   439897.845 3762564.184 215.98
   LOCATION L0012736     VOLUME   439897.938 3762537.184 215.67
   LOCATION L0012737     VOLUME   439898.030 3762510.184 215.35
   LOCATION L0012738     VOLUME   439898.122 3762483.185 215.07
   LOCATION L0012739     VOLUME   439898.215 3762456.185 214.77
   LOCATION L0012740     VOLUME   439898.307 3762429.185 214.41
   LOCATION L0012741     VOLUME   439898.400 3762402.185 214.05
   LOCATION L0012742     VOLUME   439898.492 3762375.185 213.71
   LOCATION L0012743     VOLUME   439898.585 3762348.185 213.34
   LOCATION L0012744     VOLUME   439898.677 3762321.186 212.96
   LOCATION L0012745     VOLUME   439898.770 3762294.186 212.54
   LOCATION L0012746     VOLUME   439898.862 3762267.186 212.07
   LOCATION L0012747     VOLUME   439898.955 3762240.186 211.64
   LOCATION L0012748     VOLUME   439899.047 3762213.186 211.27
   LOCATION L0012749     VOLUME   439899.140 3762186.186 210.96
   LOCATION L0012750     VOLUME   439899.232 3762159.187 210.70
   LOCATION L0012751     VOLUME   439899.325 3762132.187 210.50
   LOCATION L0012752     VOLUME   439899.417 3762105.187 210.32
   LOCATION L0012753     VOLUME   439899.509 3762078.187 210.12
** End of LINE VOLUME Source ID = SLINE24
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE21
** DESCRSRC Edison btwn Euclid & Sultana
** PREFIX
```

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** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.06730474
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439913.010, 3762074.518, 210.14, 3.11, 5.58
** 440387.875, 3762074.024, 211.52, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0012598     VOLUME   439919.010 3762074.512 210.19
   LOCATION L0012599     VOLUME   439931.010 3762074.499 210.20
   LOCATION L0012600     VOLUME   439943.010 3762074.487 210.22
   LOCATION L0012601     VOLUME   439955.010 3762074.474 210.25
   LOCATION L0012602     VOLUME   439967.010 3762074.462 210.24
   LOCATION L0012603     VOLUME   439979.010 3762074.449 210.22
   LOCATION L0012604     VOLUME   439991.010 3762074.437 210.21
   LOCATION L0012605     VOLUME   440003.010 3762074.425 210.22
   LOCATION L0012606     VOLUME   440015.010 3762074.412 210.23
   LOCATION L0012607     VOLUME   440027.010 3762074.400 210.24
   LOCATION L0012608     VOLUME   440039.010 3762074.387 210.26
   LOCATION L0012609     VOLUME   440051.010 3762074.375 210.29
   LOCATION L0012610     VOLUME   440063.010 3762074.362 210.31
   LOCATION L0012611     VOLUME   440075.010 3762074.350 210.33
   LOCATION L0012612     VOLUME   440087.010 3762074.337 210.35
   LOCATION L0012613     VOLUME   440099.010 3762074.325 210.37
   LOCATION L0012614     VOLUME   440111.010 3762074.312 210.38
   LOCATION L0012615     VOLUME   440123.010 3762074.300 210.41
   LOCATION L0012616     VOLUME   440135.010 3762074.287 210.45
   LOCATION L0012617     VOLUME   440147.010 3762074.275 210.49
   LOCATION L0012618     VOLUME   440159.010 3762074.262 210.54
   LOCATION L0012619     VOLUME   440171.010 3762074.250 210.61
   LOCATION L0012620     VOLUME   440183.010 3762074.237 210.69
   LOCATION L0012621     VOLUME   440195.010 3762074.225 210.76
   LOCATION L0012622     VOLUME   440207.010 3762074.212 210.80
   LOCATION L0012623     VOLUME   440219.010 3762074.200 210.85
   LOCATION L0012624     VOLUME   440231.010 3762074.188 210.89
   LOCATION L0012625     VOLUME   440243.010 3762074.175 210.94
   LOCATION L0012626     VOLUME   440255.010 3762074.163 210.98
   LOCATION L0012627     VOLUME   440267.010 3762074.150 211.02
   LOCATION L0012628     VOLUME   440279.010 3762074.138 211.03
   LOCATION L0012629     VOLUME   440291.010 3762074.125 211.03
   LOCATION L0012630     VOLUME   440303.010 3762074.113 211.00
   LOCATION L0012631     VOLUME   440315.010 3762074.100 210.95
   LOCATION L0012632     VOLUME   440327.010 3762074.088 210.88
   LOCATION L0012633     VOLUME   440339.010 3762074.075 210.80
   LOCATION L0012634     VOLUME   440351.010 3762074.063 210.90
   LOCATION L0012635     VOLUME   440363.010 3762074.050 211.13
   LOCATION L0012636     VOLUME   440375.010 3762074.038 211.32
   LOCATION L0012637     VOLUME   440387.010 3762074.025 211.47
** End of LINE VOLUME Source ID = SLINE21
** ------------------------------------------------------------------
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE22
** DESCRSRC Edison e/o Sultana
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.109354258
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440393.829, 3762073.840, 211.58, 3.11, 5.58
** 441165.394, 3762075.321, 211.37, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0012638     VOLUME   440399.829 3762073.852 211.57
   LOCATION L0012639     VOLUME   440411.829 3762073.875 211.57
   LOCATION L0012640     VOLUME   440423.829 3762073.898 211.57
   LOCATION L0012641     VOLUME   440435.829 3762073.921 211.53
   LOCATION L0012642     VOLUME   440447.829 3762073.944 211.50
   LOCATION L0012643     VOLUME   440459.829 3762073.967 211.48
   LOCATION L0012644     VOLUME   440471.829 3762073.990 211.45
   LOCATION L0012645     VOLUME   440483.829 3762074.013 211.48
   LOCATION L0012646     VOLUME   440495.829 3762074.036 211.52
   LOCATION L0012647     VOLUME   440507.829 3762074.059 211.54
   LOCATION L0012648     VOLUME   440519.829 3762074.082 211.56
   LOCATION L0012649     VOLUME   440531.829 3762074.105 211.57
   LOCATION L0012650     VOLUME   440543.829 3762074.128 211.57
   LOCATION L0012651     VOLUME   440555.829 3762074.151 211.58
   LOCATION L0012652     VOLUME   440567.829 3762074.174 211.59
   LOCATION L0012653     VOLUME   440579.829 3762074.197 211.57
   LOCATION L0012654     VOLUME   440591.829 3762074.220 211.51
   LOCATION L0012655     VOLUME   440603.829 3762074.243 211.46
   LOCATION L0012656     VOLUME   440615.829 3762074.266 211.47
   LOCATION L0012657     VOLUME   440627.829 3762074.289 211.49
   LOCATION L0012658     VOLUME   440639.829 3762074.312 211.58
   LOCATION L0012659     VOLUME   440651.829 3762074.335 211.67
   LOCATION L0012660     VOLUME   440663.829 3762074.358 211.77
   LOCATION L0012661     VOLUME   440675.829 3762074.381 211.87
   LOCATION L0012662     VOLUME   440687.829 3762074.404 211.92
   LOCATION L0012663     VOLUME   440699.829 3762074.428 211.97
   LOCATION L0012664     VOLUME   440711.829 3762074.451 212.00
   LOCATION L0012665     VOLUME   440723.829 3762074.474 212.02
   LOCATION L0012666     VOLUME   440735.829 3762074.497 212.05
   LOCATION L0012667     VOLUME   440747.829 3762074.520 212.08
   LOCATION L0012668     VOLUME   440759.829 3762074.543 212.09
   LOCATION L0012669     VOLUME   440771.829 3762074.566 212.08
   LOCATION L0012670     VOLUME   440783.829 3762074.589 212.04
   LOCATION L0012671     VOLUME   440795.829 3762074.612 211.93
   LOCATION L0012672     VOLUME   440807.829 3762074.635 211.84
   LOCATION L0012673     VOLUME   440819.829 3762074.658 211.79
   LOCATION L0012674     VOLUME   440831.829 3762074.681 211.75
   LOCATION L0012675     VOLUME   440843.829 3762074.704 211.78
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   LOCATION L0012676     VOLUME   440855.829 3762074.727 211.81
   LOCATION L0012677     VOLUME   440867.829 3762074.750 211.87
   LOCATION L0012678     VOLUME   440879.829 3762074.773 211.94
   LOCATION L0012679     VOLUME   440891.828 3762074.796 211.94
   LOCATION L0012680     VOLUME   440903.828 3762074.819 211.91
   LOCATION L0012681     VOLUME   440915.828 3762074.842 211.92
   LOCATION L0012682     VOLUME   440927.828 3762074.865 211.93
   LOCATION L0012683     VOLUME   440939.828 3762074.888 211.92
   LOCATION L0012684     VOLUME   440951.828 3762074.911 211.89
   LOCATION L0012685     VOLUME   440963.828 3762074.934 211.87
   LOCATION L0012686     VOLUME   440975.828 3762074.957 211.85
   LOCATION L0012687     VOLUME   440987.828 3762074.980 211.82
   LOCATION L0012688     VOLUME   440999.828 3762075.003 211.72
   LOCATION L0012689     VOLUME   441011.828 3762075.026 211.63
   LOCATION L0012690     VOLUME   441023.828 3762075.049 211.60
   LOCATION L0012691     VOLUME   441035.828 3762075.072 211.57
   LOCATION L0012692     VOLUME   441047.828 3762075.095 211.56
   LOCATION L0012693     VOLUME   441059.828 3762075.118 211.56
   LOCATION L0012694     VOLUME   441071.828 3762075.142 211.52
   LOCATION L0012695     VOLUME   441083.828 3762075.165 211.48
   LOCATION L0012696     VOLUME   441095.828 3762075.188 211.41
   LOCATION L0012697     VOLUME   441107.828 3762075.211 211.32
   LOCATION L0012698     VOLUME   441119.828 3762075.234 211.29
   LOCATION L0012699     VOLUME   441131.828 3762075.257 211.30
   LOCATION L0012700     VOLUME   441143.828 3762075.280 211.31
   LOCATION L0012701     VOLUME   441155.828 3762075.303 211.33
** End of LINE VOLUME Source ID = SLINE22
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE23
** DESCRSRC Euclid n/o Schaefer
** PREFIX
** Length of Side = 27.00
** Configuration = Adjacent
** Emission Rate = 0.189764927
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439895.743, 3762877.491, 220.26, 3.11, 12.56
** 439901.848, 3763472.572, 227.18, 3.11, 12.56
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   LOCATION L0012702     VOLUME   439895.882 3762890.991 220.41
   LOCATION L0012703     VOLUME   439896.159 3762917.989 220.75
   LOCATION L0012704     VOLUME   439896.436 3762944.988 221.03
   LOCATION L0012705     VOLUME   439896.713 3762971.986 221.31
   LOCATION L0012706     VOLUME   439896.990 3762998.985 221.60
   LOCATION L0012707     VOLUME   439897.267 3763025.984 221.88
   LOCATION L0012708     VOLUME   439897.544 3763052.982 222.17
   LOCATION L0012709     VOLUME   439897.821 3763079.981 222.49
   LOCATION L0012710     VOLUME   439898.098 3763106.979 222.82
   LOCATION L0012711     VOLUME   439898.375 3763133.978 223.17
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   LOCATION L0012712     VOLUME   439898.652 3763160.976 223.55
   LOCATION L0012713     VOLUME   439898.929 3763187.975 223.93
   LOCATION L0012714     VOLUME   439899.206 3763214.974 224.33
   LOCATION L0012715     VOLUME   439899.483 3763241.972 224.73
   LOCATION L0012716     VOLUME   439899.759 3763268.971 225.09
   LOCATION L0012717     VOLUME   439900.036 3763295.969 225.42
   LOCATION L0012718     VOLUME   439900.313 3763322.968 225.75
   LOCATION L0012719     VOLUME   439900.590 3763349.966 226.05
   LOCATION L0012720     VOLUME   439900.867 3763376.965 226.34
   LOCATION L0012721     VOLUME   439901.144 3763403.964 226.59
   LOCATION L0012722     VOLUME   439901.421 3763430.962 226.83
   LOCATION L0012723     VOLUME   439901.698 3763457.961 227.07
** End of LINE VOLUME Source ID = SLINE23
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE25
** DESCRSRC Euclid s/o Edison
** PREFIX
** Length of Side = 27.00
** Configuration = Adjacent
** Emission Rate = 0.196365724
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439898.016, 3762063.116, 209.92, 3.11, 12.56
** 439895.604, 3761447.370, 204.23, 3.11, 12.56
** ----------------------------------------------------------------------
   LOCATION L0012754     VOLUME   439897.963 3762049.616 209.88
   LOCATION L0012755     VOLUME   439897.857 3762022.616 209.69
   LOCATION L0012756     VOLUME   439897.751 3761995.616 209.48
   LOCATION L0012757     VOLUME   439897.646 3761968.616 209.25
   LOCATION L0012758     VOLUME   439897.540 3761941.617 209.00
   LOCATION L0012759     VOLUME   439897.434 3761914.617 208.76
   LOCATION L0012760     VOLUME   439897.328 3761887.617 208.53
   LOCATION L0012761     VOLUME   439897.223 3761860.617 208.30
   LOCATION L0012762     VOLUME   439897.117 3761833.617 208.07
   LOCATION L0012763     VOLUME   439897.011 3761806.618 207.83
   LOCATION L0012764     VOLUME   439896.905 3761779.618 207.59
   LOCATION L0012765     VOLUME   439896.800 3761752.618 207.34
   LOCATION L0012766     VOLUME   439896.694 3761725.618 207.11
   LOCATION L0012767     VOLUME   439896.588 3761698.618 206.89
   LOCATION L0012768     VOLUME   439896.482 3761671.619 206.66
   LOCATION L0012769     VOLUME   439896.377 3761644.619 206.42
   LOCATION L0012770     VOLUME   439896.271 3761617.619 206.21
   LOCATION L0012771     VOLUME   439896.165 3761590.619 206.00
   LOCATION L0012772     VOLUME   439896.059 3761563.619 205.73
   LOCATION L0012773     VOLUME   439895.954 3761536.620 205.41
   LOCATION L0012774     VOLUME   439895.848 3761509.620 205.09
   LOCATION L0012775     VOLUME   439895.742 3761482.620 204.78
   LOCATION L0012776     VOLUME   439895.636 3761455.620 204.47
** End of LINE VOLUME Source ID = SLINE25
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Onsite Building 1
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.071417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.723, 3762869.914, 220.47, 3.11, 5.58
** 440153.303, 3762781.342, 219.32, 3.11, 5.58
** 440038.286, 3762782.601, 219.42, 3.11, 5.58
** 440037.446, 3762773.786, 219.18, 3.11, 5.58
** 439977.839, 3762774.206, 219.07, 3.11, 5.58
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   LOCATION L0013092     VOLUME   440153.695 3762863.914 220.47
   LOCATION L0013093     VOLUME   440153.638 3762851.914 220.15
   LOCATION L0013094     VOLUME   440153.581 3762839.914 219.95
   LOCATION L0013095     VOLUME   440153.524 3762827.914 219.76
   LOCATION L0013096     VOLUME   440153.467 3762815.915 219.59
   LOCATION L0013097     VOLUME   440153.410 3762803.915 219.46
   LOCATION L0013098     VOLUME   440153.353 3762791.915 219.33
   LOCATION L0013099     VOLUME   440151.876 3762781.358 219.24
   LOCATION L0013100     VOLUME   440139.877 3762781.489 219.24
   LOCATION L0013101     VOLUME   440127.878 3762781.620 219.28
   LOCATION L0013102     VOLUME   440115.878 3762781.752 219.32
   LOCATION L0013103     VOLUME   440103.879 3762781.883 219.31
   LOCATION L0013104     VOLUME   440091.880 3762782.015 219.31
   LOCATION L0013105     VOLUME   440079.881 3762782.146 219.34
   LOCATION L0013106     VOLUME   440067.881 3762782.277 219.36
   LOCATION L0013107     VOLUME   440055.882 3762782.409 219.37
   LOCATION L0013108     VOLUME   440043.883 3762782.540 219.38
   LOCATION L0013109     VOLUME   440037.679 3762776.227 219.32
   LOCATION L0013110     VOLUME   440027.899 3762773.853 219.30
   LOCATION L0013111     VOLUME   440015.899 3762773.938 219.29
   LOCATION L0013112     VOLUME   440003.899 3762774.022 219.27
   LOCATION L0013113     VOLUME   439991.900 3762774.107 219.24
   LOCATION L0013114     VOLUME   439979.900 3762774.191 219.21
** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Onsite Building 2
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.077690289
** Vertical Dimension = 6.22
** SZINIT = 2.89
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** Nodes = 5
** 440153.303, 3762869.494, 220.45, 3.11, 5.58
** 440153.723, 3762762.872, 219.11, 3.11, 5.58
** 440038.706, 3762761.613, 219.20, 3.11, 5.58
** 440037.866, 3762747.341, 218.83, 3.11, 5.58
** 439977.839, 3762746.501, 218.71, 3.11, 5.58
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   LOCATION L0013115     VOLUME   440153.327 3762863.494 220.46
   LOCATION L0013116     VOLUME   440153.374 3762851.494 220.14
   LOCATION L0013117     VOLUME   440153.421 3762839.494 219.95
   LOCATION L0013118     VOLUME   440153.469 3762827.495 219.75
   LOCATION L0013119     VOLUME   440153.516 3762815.495 219.59
   LOCATION L0013120     VOLUME   440153.563 3762803.495 219.46
   LOCATION L0013121     VOLUME   440153.610 3762791.495 219.33
   LOCATION L0013122     VOLUME   440153.658 3762779.495 219.23
   LOCATION L0013123     VOLUME   440153.705 3762767.495 219.14
   LOCATION L0013124     VOLUME   440146.346 3762762.791 219.06
   LOCATION L0013125     VOLUME   440134.347 3762762.660 219.07
   LOCATION L0013126     VOLUME   440122.348 3762762.529 219.11
   LOCATION L0013127     VOLUME   440110.349 3762762.397 219.13
   LOCATION L0013128     VOLUME   440098.349 3762762.266 219.14
   LOCATION L0013129     VOLUME   440086.350 3762762.134 219.16
   LOCATION L0013130     VOLUME   440074.351 3762762.003 219.18
   LOCATION L0013131     VOLUME   440062.351 3762761.872 219.19
   LOCATION L0013132     VOLUME   440050.352 3762761.740 219.20
   LOCATION L0013133     VOLUME   440038.685 3762761.261 219.20
   LOCATION L0013134     VOLUME   440037.980 3762749.281 219.06
   LOCATION L0013135     VOLUME   440027.811 3762747.200 219.03
   LOCATION L0013136     VOLUME   440015.812 3762747.032 219.02
   LOCATION L0013137     VOLUME   440003.814 3762746.864 218.98
   LOCATION L0013138     VOLUME   439991.815 3762746.697 218.95
   LOCATION L0013139     VOLUME   439979.816 3762746.529 218.91
** End of LINE VOLUME Source ID = SLINE7
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Onsite Building 3
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.104488189
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440152.464, 3762870.334, 220.46, 3.11, 5.58
** 440153.723, 3762630.644, 217.47, 3.11, 5.58
** 440047.521, 3762597.062, 217.53, 3.11, 5.58
** 440044.163, 3762611.754, 217.81, 3.11, 5.58
** 440012.260, 3762611.754, 217.20, 3.11, 5.58
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   LOCATION L0013140     VOLUME   440152.495 3762864.334 220.48
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   LOCATION L0013141     VOLUME   440152.558 3762852.334 220.16
   LOCATION L0013142     VOLUME   440152.621 3762840.334 219.96
   LOCATION L0013143     VOLUME   440152.684 3762828.334 219.76
   LOCATION L0013144     VOLUME   440152.747 3762816.334 219.60
   LOCATION L0013145     VOLUME   440152.811 3762804.335 219.47
   LOCATION L0013146     VOLUME   440152.874 3762792.335 219.33
   LOCATION L0013147     VOLUME   440152.937 3762780.335 219.24
   LOCATION L0013148     VOLUME   440153.000 3762768.335 219.14
   LOCATION L0013149     VOLUME   440153.063 3762756.335 219.06
   LOCATION L0013150     VOLUME   440153.126 3762744.335 219.01
   LOCATION L0013151     VOLUME   440153.189 3762732.336 218.96
   LOCATION L0013152     VOLUME   440153.252 3762720.336 218.83
   LOCATION L0013153     VOLUME   440153.315 3762708.336 218.69
   LOCATION L0013154     VOLUME   440153.378 3762696.336 218.52
   LOCATION L0013155     VOLUME   440153.441 3762684.336 218.27
   LOCATION L0013156     VOLUME   440153.504 3762672.336 218.02
   LOCATION L0013157     VOLUME   440153.567 3762660.337 217.82
   LOCATION L0013158     VOLUME   440153.630 3762648.337 217.64
   LOCATION L0013159     VOLUME   440153.693 3762636.337 217.46
   LOCATION L0013160     VOLUME   440147.710 3762628.742 217.28
   LOCATION L0013161     VOLUME   440136.268 3762625.125 217.18
   LOCATION L0013162     VOLUME   440124.826 3762621.507 217.16
   LOCATION L0013163     VOLUME   440113.385 3762617.889 217.17
   LOCATION L0013164     VOLUME   440101.943 3762614.271 217.26
   LOCATION L0013165     VOLUME   440090.501 3762610.653 217.36
   LOCATION L0013166     VOLUME   440079.060 3762607.035 217.41
   LOCATION L0013167     VOLUME   440067.618 3762603.417 217.47
   LOCATION L0013168     VOLUME   440056.177 3762599.799 217.54
   LOCATION L0013169     VOLUME   440046.870 3762599.911 217.62
   LOCATION L0013170     VOLUME   440044.196 3762611.609 217.83
   LOCATION L0013171     VOLUME   440032.312 3762611.754 217.71
   LOCATION L0013172     VOLUME   440020.312 3762611.754 217.40
** End of LINE VOLUME Source ID = SLINE8
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Onite Building 4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.042309711
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440152.464, 3762869.914, 220.45, 3.11, 5.58
** 440152.884, 3762782.601, 219.33, 3.11, 5.58
** 440079.004, 3762783.021, 219.38, 3.11, 5.58
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   LOCATION L0013173     VOLUME   440152.493 3762863.914 220.47
   LOCATION L0013174     VOLUME   440152.550 3762851.914 220.15
   LOCATION L0013175     VOLUME   440152.608 3762839.914 219.95
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   LOCATION L0013176     VOLUME   440152.666 3762827.914 219.76
   LOCATION L0013177     VOLUME   440152.723 3762815.915 219.60
   LOCATION L0013178     VOLUME   440152.781 3762803.915 219.46
   LOCATION L0013179     VOLUME   440152.839 3762791.915 219.33
   LOCATION L0013180     VOLUME   440150.197 3762782.617 219.25
   LOCATION L0013181     VOLUME   440138.197 3762782.685 219.26
   LOCATION L0013182     VOLUME   440126.198 3762782.753 219.30
   LOCATION L0013183     VOLUME   440114.198 3762782.821 219.33
   LOCATION L0013184     VOLUME   440102.198 3762782.889 219.32
   LOCATION L0013185     VOLUME   440090.198 3762782.958 219.32
** End of LINE VOLUME Source ID = SLINE9
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Onsite Building 5
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.153937008
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 440152.884, 3762870.754, 220.48, 3.11, 5.58
** 440155.402, 3762635.681, 217.50, 3.11, 5.58
** 440062.633, 3762599.581, 217.46, 3.11, 5.58
** 440059.694, 3762709.981, 218.54, 3.11, 5.58
** 440058.855, 3762763.712, 219.18, 3.11, 5.58
** 440146.587, 3762762.452, 219.03, 3.11, 5.58
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   LOCATION L0013186     VOLUME   440152.948 3762864.754 220.49
   LOCATION L0013187     VOLUME   440153.076 3762852.755 220.16
   LOCATION L0013188     VOLUME   440153.205 3762840.755 219.97
   LOCATION L0013189     VOLUME   440153.334 3762828.756 219.77
   LOCATION L0013190     VOLUME   440153.462 3762816.757 219.60
   LOCATION L0013191     VOLUME   440153.591 3762804.757 219.47
   LOCATION L0013192     VOLUME   440153.719 3762792.758 219.34
   LOCATION L0013193     VOLUME   440153.848 3762780.759 219.24
   LOCATION L0013194     VOLUME   440153.976 3762768.759 219.15
   LOCATION L0013195     VOLUME   440154.105 3762756.760 219.07
   LOCATION L0013196     VOLUME   440154.233 3762744.761 219.03
   LOCATION L0013197     VOLUME   440154.362 3762732.761 218.98
   LOCATION L0013198     VOLUME   440154.491 3762720.762 218.86
   LOCATION L0013199     VOLUME   440154.619 3762708.763 218.72
   LOCATION L0013200     VOLUME   440154.748 3762696.763 218.56
   LOCATION L0013201     VOLUME   440154.876 3762684.764 218.31
   LOCATION L0013202     VOLUME   440155.005 3762672.765 218.05
   LOCATION L0013203     VOLUME   440155.133 3762660.766 217.85
   LOCATION L0013204     VOLUME   440155.262 3762648.766 217.66
   LOCATION L0013205     VOLUME   440155.391 3762636.767 217.48
   LOCATION L0013206     VOLUME   440145.231 3762631.723 217.30
   LOCATION L0013207     VOLUME   440134.048 3762627.371 217.22
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   LOCATION L0013208     VOLUME   440122.865 3762623.020 217.19
   LOCATION L0013209     VOLUME   440111.682 3762618.668 217.20
   LOCATION L0013210     VOLUME   440100.498 3762614.316 217.28
   LOCATION L0013211     VOLUME   440089.315 3762609.964 217.36
   LOCATION L0013212     VOLUME   440078.132 3762605.612 217.40
   LOCATION L0013213     VOLUME   440066.949 3762601.261 217.45
   LOCATION L0013214     VOLUME   440062.437 3762606.946 217.57
   LOCATION L0013215     VOLUME   440062.117 3762618.942 217.70
   LOCATION L0013216     VOLUME   440061.798 3762630.938 217.82
   LOCATION L0013217     VOLUME   440061.479 3762642.934 217.92
   LOCATION L0013218     VOLUME   440061.159 3762654.929 217.98
   LOCATION L0013219     VOLUME   440060.840 3762666.925 218.05
   LOCATION L0013220     VOLUME   440060.521 3762678.921 218.20
   LOCATION L0013221     VOLUME   440060.202 3762690.917 218.37
   LOCATION L0013222     VOLUME   440059.882 3762702.912 218.53
   LOCATION L0013223     VOLUME   440059.617 3762714.909 218.67
   LOCATION L0013224     VOLUME   440059.430 3762726.908 218.81
   LOCATION L0013225     VOLUME   440059.242 3762738.906 218.95
   LOCATION L0013226     VOLUME   440059.055 3762750.905 219.08
   LOCATION L0013227     VOLUME   440058.867 3762762.903 219.20
   LOCATION L0013228     VOLUME   440070.045 3762763.551 219.20
   LOCATION L0013229     VOLUME   440082.044 3762763.379 219.17
   LOCATION L0013230     VOLUME   440094.043 3762763.207 219.15
   LOCATION L0013231     VOLUME   440106.041 3762763.034 219.14
   LOCATION L0013232     VOLUME   440118.040 3762762.862 219.13
   LOCATION L0013233     VOLUME   440130.039 3762762.690 219.09
   LOCATION L0013234     VOLUME   440142.038 3762762.518 219.05
** End of LINE VOLUME Source ID = SLINE10
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC Onsite Building 6
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.064015748
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 3
** 440369.066, 3762686.893, 218.77, 0.52, 5.58
** 440258.246, 3762657.929, 218.44, 0.52, 5.58
** 440253.629, 3762787.219, 219.89, 0.52, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013235     VOLUME   440363.261 3762685.376 218.72
   LOCATION L0013236     VOLUME   440351.651 3762682.342 218.66
   LOCATION L0013237     VOLUME   440340.041 3762679.307 218.47
   LOCATION L0013238     VOLUME   440328.431 3762676.273 218.22
   LOCATION L0013239     VOLUME   440316.821 3762673.238 218.02
   LOCATION L0013240     VOLUME   440305.211 3762670.204 217.91
   LOCATION L0013241     VOLUME   440293.601 3762667.170 217.90
   LOCATION L0013242     VOLUME   440281.991 3762664.135 218.20
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   LOCATION L0013243     VOLUME   440270.381 3762661.101 218.46
   LOCATION L0013244     VOLUME   440258.771 3762658.066 218.42
   LOCATION L0013245     VOLUME   440257.837 3762669.380 218.64
   LOCATION L0013246     VOLUME   440257.409 3762681.372 218.78
   LOCATION L0013247     VOLUME   440256.981 3762693.364 218.92
   LOCATION L0013248     VOLUME   440256.552 3762705.357 219.04
   LOCATION L0013249     VOLUME   440256.124 3762717.349 219.15
   LOCATION L0013250     VOLUME   440255.696 3762729.341 219.25
   LOCATION L0013251     VOLUME   440255.268 3762741.334 219.43
   LOCATION L0013252     VOLUME   440254.839 3762753.326 219.61
   LOCATION L0013253     VOLUME   440254.411 3762765.318 219.74
   LOCATION L0013254     VOLUME   440253.983 3762777.311 219.81
** End of LINE VOLUME Source ID = SLINE11
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Onsite Building 7
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057874016
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440368.646, 3762688.573, 218.78, 3.11, 5.58
** 440279.655, 3762665.065, 218.35, 3.11, 5.58
** 440278.395, 3762793.515, 219.79, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013255     VOLUME   440362.845 3762687.040 218.73
   LOCATION L0013256     VOLUME   440351.243 3762683.975 218.67
   LOCATION L0013257     VOLUME   440339.641 3762680.911 218.48
   LOCATION L0013258     VOLUME   440328.039 3762677.846 218.23
   LOCATION L0013259     VOLUME   440316.437 3762674.781 218.04
   LOCATION L0013260     VOLUME   440304.835 3762671.717 217.93
   LOCATION L0013261     VOLUME   440293.233 3762668.652 217.93
   LOCATION L0013262     VOLUME   440281.631 3762665.587 218.24
   LOCATION L0013263     VOLUME   440279.557 3762675.021 218.42
   LOCATION L0013264     VOLUME   440279.439 3762687.020 218.55
   LOCATION L0013265     VOLUME   440279.322 3762699.020 218.68
   LOCATION L0013266     VOLUME   440279.204 3762711.019 218.76
   LOCATION L0013267     VOLUME   440279.086 3762723.018 218.84
   LOCATION L0013268     VOLUME   440278.969 3762735.018 218.98
   LOCATION L0013269     VOLUME   440278.851 3762747.017 219.19
   LOCATION L0013270     VOLUME   440278.734 3762759.017 219.40
   LOCATION L0013271     VOLUME   440278.616 3762771.016 219.56
   LOCATION L0013272     VOLUME   440278.498 3762783.016 219.72
** End of LINE VOLUME Source ID = SLINE12
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
** DESCRSRC Onsite PA4
```

```
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.124120735
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.284, 3762525.123, 215.59, 3.11, 5.58
** 439990.794, 3762536.975, 215.91, 3.11, 5.58
** 440357.234, 3762635.746, 218.25, 3.11, 5.58
** 440370.074, 3762637.721, 218.37, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0013273     VOLUME   439917.218 3762526.007 215.59
   LOCATION L0013274     VOLUME   439929.087 3762527.777 215.53
   LOCATION L0013275     VOLUME   439940.956 3762529.546 215.51
   LOCATION L0013276     VOLUME   439952.825 3762531.315 215.54
   LOCATION L0013277     VOLUME   439964.694 3762533.084 215.59
   LOCATION L0013278     VOLUME   439976.563 3762534.854 215.69
   LOCATION L0013279     VOLUME   439988.432 3762536.623 215.81
   LOCATION L0013280     VOLUME   440000.074 3762539.476 216.04
   LOCATION L0013281     VOLUME   440011.661 3762542.599 216.25
   LOCATION L0013282     VOLUME   440023.247 3762545.723 216.58
   LOCATION L0013283     VOLUME   440034.834 3762548.846 216.94
   LOCATION L0013284     VOLUME   440046.420 3762551.969 217.02
   LOCATION L0013285     VOLUME   440058.007 3762555.092 216.99
   LOCATION L0013286     VOLUME   440069.593 3762558.215 216.92
   LOCATION L0013287     VOLUME   440081.180 3762561.338 216.81
   LOCATION L0013288     VOLUME   440092.766 3762564.461 216.69
   LOCATION L0013289     VOLUME   440104.353 3762567.584 216.56
   LOCATION L0013290     VOLUME   440115.939 3762570.707 216.42
   LOCATION L0013291     VOLUME   440127.526 3762573.830 216.46
   LOCATION L0013292     VOLUME   440139.112 3762576.953 216.50
   LOCATION L0013293     VOLUME   440150.699 3762580.076 216.74
   LOCATION L0013294     VOLUME   440162.285 3762583.199 217.01
   LOCATION L0013295     VOLUME   440173.871 3762586.322 217.18
   LOCATION L0013296     VOLUME   440185.458 3762589.445 217.33
   LOCATION L0013297     VOLUME   440197.044 3762592.568 217.49
   LOCATION L0013298     VOLUME   440208.631 3762595.691 217.59
   LOCATION L0013299     VOLUME   440220.217 3762598.814 217.64
   LOCATION L0013300     VOLUME   440231.804 3762601.937 217.59
   LOCATION L0013301     VOLUME   440243.390 3762605.060 217.54
   LOCATION L0013302     VOLUME   440254.977 3762608.183 217.43
   LOCATION L0013303     VOLUME   440266.563 3762611.306 217.33
   LOCATION L0013304     VOLUME   440278.150 3762614.429 217.25
   LOCATION L0013305     VOLUME   440289.736 3762617.552 217.17
   LOCATION L0013306     VOLUME   440301.323 3762620.676 217.21
   LOCATION L0013307     VOLUME   440312.909 3762623.799 217.40
   LOCATION L0013308     VOLUME   440324.496 3762626.922 217.61
   LOCATION L0013309     VOLUME   440336.082 3762630.045 217.91
   LOCATION L0013310     VOLUME   440347.669 3762633.168 218.20
   LOCATION L0013311     VOLUME   440359.303 3762636.064 218.29
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** End of LINE VOLUME Source ID = SLINE39
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Onsite Building 8
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.032493438
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440370.568, 3762567.100, 217.52, 3.11, 5.58
** 440275.748, 3762564.137, 215.57, 3.11, 5.58
** 440248.092, 3762555.742, 215.39, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0013312     VOLUME   440364.571 3762566.913 217.25
   LOCATION L0013313     VOLUME   440352.577 3762566.538 216.81
   LOCATION L0013314     VOLUME   440340.582 3762566.163 216.37
   LOCATION L0013315     VOLUME   440328.588 3762565.788 215.92
   LOCATION L0013316     VOLUME   440316.594 3762565.414 215.63
   LOCATION L0013317     VOLUME   440304.600 3762565.039 215.60
   LOCATION L0013318     VOLUME   440292.606 3762564.664 215.58
   LOCATION L0013319     VOLUME   440280.612 3762564.289 215.60
   LOCATION L0013320     VOLUME   440268.922 3762562.065 215.51
   LOCATION L0013321     VOLUME   440257.439 3762558.579 215.52
** End of LINE VOLUME Source ID = SLINE13
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Onsite Building 9
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057847769
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.778, 3762403.635, 214.16, 3.11, 5.58
** 440009.067, 3762407.585, 215.02, 3.11, 5.58
** 440010.055, 3762416.969, 215.13, 3.11, 5.58
** 440123.641, 3762419.932, 214.99, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0013322     VOLUME   439917.773 3762403.878 214.06
   LOCATION L0013323     VOLUME   439929.763 3762404.365 213.82
   LOCATION L0013324     VOLUME   439941.753 3762404.852 213.63
   LOCATION L0013325     VOLUME   439953.743 3762405.339 213.47
   LOCATION L0013326     VOLUME   439965.733 3762405.826 213.51
   LOCATION L0013327     VOLUME   439977.723 3762406.313 213.84
   LOCATION L0013328     VOLUME   439989.714 3762406.800 214.20
   LOCATION L0013329     VOLUME   440001.704 3762407.286 214.68
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   LOCATION L0013330     VOLUME   440009.552 3762412.191 215.01
   LOCATION L0013331     VOLUME   440017.248 3762417.156 215.19
   LOCATION L0013332     VOLUME   440029.244 3762417.469 215.29
   LOCATION L0013333     VOLUME   440041.240 3762417.782 215.34
   LOCATION L0013334     VOLUME   440053.236 3762418.095 215.22
   LOCATION L0013335     VOLUME   440065.232 3762418.408 215.11
   LOCATION L0013336     VOLUME   440077.227 3762418.721 215.03
   LOCATION L0013337     VOLUME   440089.223 3762419.034 214.95
   LOCATION L0013338     VOLUME   440101.219 3762419.347 214.97
   LOCATION L0013339     VOLUME   440113.215 3762419.660 214.99
** End of LINE VOLUME Source ID = SLINE14
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC Onsite Building 10
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057454068
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439910.790, 3762403.635, 214.16, 3.11, 5.58
** 440002.647, 3762408.573, 214.95, 3.11, 5.58
** 440012.524, 3762396.227, 214.97, 3.11, 5.58
** 440123.641, 3762393.758, 214.57, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013340     VOLUME   439916.781 3762403.957 214.08
   LOCATION L0013341     VOLUME   439928.764 3762404.601 213.85
   LOCATION L0013342     VOLUME   439940.747 3762405.245 213.65
   LOCATION L0013343     VOLUME   439952.730 3762405.889 213.49
   LOCATION L0013344     VOLUME   439964.712 3762406.534 213.50
   LOCATION L0013345     VOLUME   439976.695 3762407.178 213.83
   LOCATION L0013346     VOLUME   439988.678 3762407.822 214.18
   LOCATION L0013347     VOLUME   440000.660 3762408.466 214.65
   LOCATION L0013348     VOLUME   440008.900 3762400.756 214.91
   LOCATION L0013349     VOLUME   440018.722 3762396.089 215.05
   LOCATION L0013350     VOLUME   440030.719 3762395.823 215.09
   LOCATION L0013351     VOLUME   440042.716 3762395.556 215.05
   LOCATION L0013352     VOLUME   440054.713 3762395.289 214.89
   LOCATION L0013353     VOLUME   440066.710 3762395.023 214.76
   LOCATION L0013354     VOLUME   440078.707 3762394.756 214.71
   LOCATION L0013355     VOLUME   440090.704 3762394.490 214.67
   LOCATION L0013356     VOLUME   440102.701 3762394.223 214.68
   LOCATION L0013357     VOLUME   440114.698 3762393.956 214.69
** End of LINE VOLUME Source ID = SLINE15
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Onsite Building 11
** PREFIX
```

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** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.059317585
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.308, 3762405.338, 214.18, 3.11, 5.58
** 440007.437, 3762407.437, 215.01, 3.11, 5.58
** 440007.017, 3762503.146, 215.85, 3.11, 5.58
** 439978.892, 3762483.837, 214.97, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013358     VOLUME   439917.306 3762405.469 214.09
   LOCATION L0013359     VOLUME   439929.304 3762405.731 213.85
   LOCATION L0013360     VOLUME   439941.301 3762405.993 213.66
   LOCATION L0013361     VOLUME   439953.298 3762406.255 213.49
   LOCATION L0013362     VOLUME   439965.295 3762406.517 213.51
   LOCATION L0013363     VOLUME   439977.292 3762406.779 213.83
   LOCATION L0013364     VOLUME   439989.289 3762407.041 214.19
   LOCATION L0013365     VOLUME   440001.286 3762407.303 214.66
   LOCATION L0013366     VOLUME   440007.411 3762413.286 214.94
   LOCATION L0013367     VOLUME   440007.359 3762425.285 215.02
   LOCATION L0013368     VOLUME   440007.306 3762437.285 215.03
   LOCATION L0013369     VOLUME   440007.253 3762449.285 215.03
   LOCATION L0013370     VOLUME   440007.201 3762461.285 215.08
   LOCATION L0013371     VOLUME   440007.148 3762473.285 215.17
   LOCATION L0013372     VOLUME   440007.095 3762485.285 215.26
   LOCATION L0013373     VOLUME   440007.043 3762497.285 215.53
   LOCATION L0013374     VOLUME   440001.957 3762499.672 215.49
   LOCATION L0013375     VOLUME   439992.064 3762492.880 215.19
   LOCATION L0013376     VOLUME   439982.171 3762486.088 214.99
** End of LINE VOLUME Source ID = SLINE16
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Onsite Building 12
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.051417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.728, 3762405.338, 214.18, 3.11, 5.58
** 440004.918, 3762406.598, 214.98, 3.11, 5.58
** 440007.437, 3762332.297, 213.67, 3.11, 5.58
** 439979.732, 3762326.420, 213.41, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013377     VOLUME   439917.727 3762405.420 214.08
   LOCATION L0013378     VOLUME   439929.726 3762405.582 213.84
   LOCATION L0013379     VOLUME   439941.725 3762405.744 213.65
   LOCATION L0013380     VOLUME   439953.724 3762405.906 213.48
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   LOCATION L0013381     VOLUME   439965.723 3762406.068 213.51
   LOCATION L0013382     VOLUME   439977.722 3762406.230 213.83
   LOCATION L0013383     VOLUME   439989.721 3762406.392 214.19
   LOCATION L0013384     VOLUME   440001.719 3762406.555 214.67
   LOCATION L0013385     VOLUME   440005.216 3762397.802 214.73
   LOCATION L0013386     VOLUME   440005.623 3762385.809 214.57
   LOCATION L0013387     VOLUME   440006.029 3762373.816 214.34
   LOCATION L0013388     VOLUME   440006.436 3762361.822 214.10
   LOCATION L0013389     VOLUME   440006.842 3762349.829 213.93
   LOCATION L0013390     VOLUME   440007.249 3762337.836 213.75
   LOCATION L0013391     VOLUME   440001.119 3762330.957 213.59
   LOCATION L0013392     VOLUME   439989.381 3762328.467 213.46
** End of LINE VOLUME Source ID = SLINE17
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Onsite Building 13
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.045616798
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439912.567, 3762260.096, 212.15, 3.11, 5.58
** 440086.355, 3762258.417, 213.09, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013393     VOLUME   439918.567 3762260.038 212.19
   LOCATION L0013394     VOLUME   439930.566 3762259.922 212.36
   LOCATION L0013395     VOLUME   439942.566 3762259.806 212.39
   LOCATION L0013396     VOLUME   439954.565 3762259.690 212.35
   LOCATION L0013397     VOLUME   439966.565 3762259.574 212.40
   LOCATION L0013398     VOLUME   439978.564 3762259.458 212.53
   LOCATION L0013399     VOLUME   439990.564 3762259.342 212.64
   LOCATION L0013400     VOLUME   440002.563 3762259.226 212.73
   LOCATION L0013401     VOLUME   440014.562 3762259.110 212.82
   LOCATION L0013402     VOLUME   440026.562 3762258.994 212.90
   LOCATION L0013403     VOLUME   440038.561 3762258.878 212.97
   LOCATION L0013404     VOLUME   440050.561 3762258.762 213.01
   LOCATION L0013405     VOLUME   440062.560 3762258.647 213.05
   LOCATION L0013406     VOLUME   440074.560 3762258.531 213.05
** End of LINE VOLUME Source ID = SLINE18
   LOCATION PAREA1       AREAPOLY   439975.943  3762818.332      219.590
** DESCRSRC Generator PA 1
   LOCATION PAREA2       AREAPOLY   439957.487  3762492.276      214.950
** DESCRSRC Generator PA 2
   LOCATION PAREA3       AREAPOLY   439958.855  3762265.335      212.460
** DESCRSRC Generator PA 3A
** Source Parameters **
** LINE VOLUME Source ID = SLINE26
   SRCPARAM L0011959     0.0110136      3.11      6.98      2.89
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   SRCPARAM L0011960     0.0110136      3.11      6.98      2.89
   SRCPARAM L0011961     0.0110136      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0011962     0.0110138667      3.11      6.98      2.89
   SRCPARAM L0011963     0.0110138667      3.11      6.98      2.89
   SRCPARAM L0011964     0.0110138667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0011953     0.0110133      3.11      6.98      2.89
   SRCPARAM L0011954     0.0110133      3.11      6.98      2.89
   SRCPARAM L0011955     0.0110133      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0011965     0.0110142333      3.11      6.98      2.89
   SRCPARAM L0011966     0.0110142333      3.11      6.98      2.89
   SRCPARAM L0011967     0.0110142333      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
   SRCPARAM L0011968     0.0377183      3.11      6.98      2.89
   SRCPARAM L0011969     0.0377183      3.11      6.98      2.89
   SRCPARAM L0011970     0.0377183      3.11      6.98      2.89
   SRCPARAM L0011971     0.0377183      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0011972     0.03678364      3.11      6.98      2.89
   SRCPARAM L0011973     0.03678364      3.11      6.98      2.89
   SRCPARAM L0011974     0.03678364      3.11      6.98      2.89
   SRCPARAM L0011975     0.03678364      3.11      6.98      2.89
   SRCPARAM L0011976     0.03678364      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0011977     0.01652065      3.11      6.98      2.89
   SRCPARAM L0011978     0.01652065      3.11      6.98      2.89
   SRCPARAM L0011979     0.01652065      3.11      6.98      2.89
   SRCPARAM L0011980     0.01652065      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0011981     0.0377185      3.11      6.98      2.89
   SRCPARAM L0011982     0.0377185      3.11      6.98      2.89
   SRCPARAM L0011983     0.0377185      3.11      6.98      2.89
   SRCPARAM L0011984     0.0377185      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0011985     0.0301752      3.11      6.98      2.89
   SRCPARAM L0011986     0.0301752      3.11      6.98      2.89
   SRCPARAM L0011987     0.0301752      3.11      6.98      2.89
   SRCPARAM L0011988     0.0301752      3.11      6.98      2.89
   SRCPARAM L0011989     0.0301752      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
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   SRCPARAM L0011990     0.0066095      3.11      6.98      2.89
   SRCPARAM L0011991     0.0066095      3.11      6.98      2.89
   SRCPARAM L0011992     0.0066095      3.11      6.98      2.89
   SRCPARAM L0011993     0.0066095      3.11      6.98      2.89
   SRCPARAM L0011994     0.0066095      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0011995     0.0165191      0.52      6.98      0.48
   SRCPARAM L0011996     0.0165191      0.52      6.98      0.48
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0011997     0.01651885      3.11      6.98      2.89
   SRCPARAM L0011998     0.01651885      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0011999     0.01321754      3.11      6.98      2.89
   SRCPARAM L0012000     0.01321754      3.11      6.98      2.89
   SRCPARAM L0012001     0.01321754      3.11      6.98      2.89
   SRCPARAM L0012002     0.01321754      3.11      6.98      2.89
   SRCPARAM L0012003     0.01321754      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE19
   SRCPARAM L0012462     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012463     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012464     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012465     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012466     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012467     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012468     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012469     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012470     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012471     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012472     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012473     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012474     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012475     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012476     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012477     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012478     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012479     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012480     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012481     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012482     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012483     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012484     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012485     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012486     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012487     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012488     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012489     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012490     0.0020130548      3.11      6.05      2.89
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   SRCPARAM L0012491     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012492     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012493     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012494     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012495     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012496     0.0020130548      3.11      6.05      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE20
   SRCPARAM L0012532     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012533     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012534     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012535     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012536     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012537     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012538     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012539     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012540     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012541     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012542     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012543     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012544     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012545     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012546     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012547     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012548     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012549     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012550     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012551     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012552     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012553     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012554     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012555     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012556     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012557     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012558     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012559     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012560     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012561     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012562     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012563     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012564     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012565     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012566     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012567     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012568     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012569     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012570     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012571     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012572     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012573     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012574     0.0017013325      3.11      5.58      2.89
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   SRCPARAM L0012575     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012576     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012577     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012578     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012579     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012580     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012581     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012582     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012583     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012584     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012585     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012586     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012587     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012588     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012589     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012590     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012591     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012592     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012593     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012594     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012595     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012596     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012597     0.0017013325      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE24
   SRCPARAM L0012724     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012725     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012726     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012727     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012728     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012729     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012730     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012731     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012732     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012733     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012734     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012735     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012736     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012737     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012738     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012739     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012740     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012741     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012742     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012743     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012744     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012745     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012746     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012747     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012748     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012749     0.0084821829      3.11     12.56      2.89
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   SRCPARAM L0012750     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012751     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012752     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012753     0.0084821829      3.11     12.56      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE21
   SRCPARAM L0012598     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012599     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012600     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012601     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012602     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012603     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012604     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012605     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012606     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012607     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012608     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012609     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012610     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012611     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012612     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012613     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012614     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012615     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012616     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012617     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012618     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012619     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012620     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012621     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012622     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012623     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012624     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012625     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012626     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012627     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012628     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012629     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012630     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012631     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012632     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012633     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012634     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012635     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012636     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012637     0.0016826185      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE22
   SRCPARAM L0012638     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012639     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012640     0.0017086603      3.11      5.58      2.89
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SRCPARAM L0012641     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012642     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012643     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012644     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012645     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012646     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012647     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012648     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012649     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012650     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012651     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012652     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012653     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012654     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012655     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012656     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012657     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012658     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012659     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012660     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012661     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012662     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012663     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012664     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012665     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012666     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012667     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012668     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012669     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012670     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012671     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012672     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012673     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012674     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012675     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012676     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012677     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012678     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012679     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012680     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012681     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012682     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012683     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012684     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012685     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012686     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012687     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012688     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012689     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012690     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012691     0.0017086603      3.11      5.58      2.89
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   SRCPARAM L0012692     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012693     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012694     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012695     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012696     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012697     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012698     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012699     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012700     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012701     0.0017086603      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE23
   SRCPARAM L0012702     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012703     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012704     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012705     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012706     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012707     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012708     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012709     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012710     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012711     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012712     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012713     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012714     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012715     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012716     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012717     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012718     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012719     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012720     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012721     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012722     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012723     0.0086256785      3.11     12.56      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE25
   SRCPARAM L0012754     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012755     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012756     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012757     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012758     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012759     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012760     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012761     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012762     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012763     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012764     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012765     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012766     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012767     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012768     0.0085376402      3.11     12.56      2.89
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   SRCPARAM L0012769     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012770     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012771     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012772     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012773     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012774     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012775     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012776     0.0085376402      3.11     12.56      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0013092     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013093     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013094     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013095     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013096     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013097     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013098     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013099     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013100     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013101     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013102     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013103     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013104     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013105     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013106     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013107     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013108     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013109     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013110     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013111     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013112     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013113     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013114     0.003105101      3.11      5.58      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0013115     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013116     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013117     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013118     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013119     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013120     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013121     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013122     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013123     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013124     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013125     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013126     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013127     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013128     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013129     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013130     0.0031076116      3.11      5.58      2.89
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   SRCPARAM L0013131     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013132     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013133     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013134     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013135     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013136     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013137     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013138     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013139     0.0031076116      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0013140     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013141     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013142     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013143     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013144     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013145     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013146     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013147     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013148     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013149     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013150     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013151     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013152     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013153     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013154     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013155     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013156     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013157     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013158     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013159     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013160     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013161     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013162     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013163     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013164     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013165     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013166     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013167     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013168     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013169     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013170     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013171     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013172     0.0031663088      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0013173     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013174     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013175     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013176     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013177     0.0032545932      3.11      5.58      2.89
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   SRCPARAM L0013178     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013179     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013180     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013181     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013182     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013183     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013184     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013185     0.0032545932      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0013186     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013187     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013188     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013189     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013190     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013191     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013192     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013193     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013194     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013195     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013196     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013197     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013198     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013199     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013200     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013201     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013202     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013203     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013204     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013205     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013206     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013207     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013208     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013209     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013210     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013211     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013212     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013213     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013214     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013215     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013216     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013217     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013218     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013219     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013220     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013221     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013222     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013223     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013224     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013225     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013226     0.0031415716      3.11      5.58      2.89
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   SRCPARAM L0013227     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013228     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013229     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013230     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013231     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013232     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013233     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013234     0.0031415716      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0013235     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013236     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013237     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013238     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013239     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013240     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013241     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013242     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013243     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013244     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013245     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013246     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013247     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013248     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013249     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013250     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013251     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013252     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013253     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013254     0.0032007874      0.52      5.58      0.48
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0013255     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013256     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013257     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013258     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013259     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013260     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013261     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013262     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013263     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013264     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013265     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013266     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013267     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013268     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013269     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013270     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013271     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013272     0.0032152231      3.11      5.58      2.89
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** LINE VOLUME Source ID = SLINE39
   SRCPARAM L0013273     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013274     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013275     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013276     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013277     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013278     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013279     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013280     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013281     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013282     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013283     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013284     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013285     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013286     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013287     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013288     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013289     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013290     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013291     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013292     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013293     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013294     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013295     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013296     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013297     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013298     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013299     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013300     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013301     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013302     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013303     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013304     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013305     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013306     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013307     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013308     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013309     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013310     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013311     0.0031825829      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0013312     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013313     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013314     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013315     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013316     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013317     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013318     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013319     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013320     0.0032493438      3.11      5.58      2.89
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   SRCPARAM L0013321     0.0032493438      3.11      5.58      2.89
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** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0013322     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013323     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013324     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013325     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013326     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013327     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013328     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013329     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013330     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013331     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013332     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013333     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013334     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013335     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013336     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013337     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013338     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013339     0.0032137649      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0013340     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013341     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013342     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013343     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013344     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013345     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013346     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013347     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013348     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013349     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013350     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013351     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013352     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013353     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013354     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013355     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013356     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013357     0.0031918927      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0013358     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013359     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013360     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013361     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013362     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013363     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013364     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013365     0.0031219782      3.11      5.58      2.89
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   SRCPARAM L0013366     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013367     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013368     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013369     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013370     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013371     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013372     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013373     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013374     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013375     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013376     0.0031219782      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0013377     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013378     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013379     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013380     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013381     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013382     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013383     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013384     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013385     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013386     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013387     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013388     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013389     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013390     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013391     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013392     0.0032135827      3.11      5.58      2.89
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** LINE VOLUME Source ID = SLINE18
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   SRCPARAM L0013394     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013395     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013396     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013397     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013398     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013399     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013400     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013401     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013402     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013403     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013404     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013405     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013406     0.0032583427      3.11      5.58      2.89
** ------------------------------------------------------------------
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   AREAVERT PAREA1       439975.943 3762818.332 440317.038 3762818.332
   AREAVERT PAREA1       440314.304 3762676.153 439968.424 3762587.974
   AREAVERT PAREA1       439969.108 3762819.700
   SRCPARAM PAREA2       8.4798E-06     5.000         9
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   AREAVERT PAREA2       440038.147 3762320.020 440037.464 3762357.616
   AREAVERT PAREA2       440154.352 3762357.616 440146.833 3762481.339
   AREAVERT PAREA2       440359.419 3762482.023 440353.267 3762577.721
   AREAVERT PAREA2       440271.240 3762571.569
   SRCPARAM PAREA3       4.0539E-06     5.000         5
   AREAVERT PAREA3       439958.855 3762265.335 439958.855 3762181.258
   AREAVERT PAREA3       440165.289 3762180.574 440159.820 3762266.703
   AREAVERT PAREA3       439956.804 3762268.070
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
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   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   SRCGROUP P1GEN    PAREA1 PAREA2 PAREA3
   SRCGROUP ALL
SO FINISHED
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** AERMOD Receptor Pathway
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**
**
RE STARTING
   INCLUDED OntarioEuclid_Phase1Ops.rou
RE FINISHED
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****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
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   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
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** AERMOD Output Pathway
****************************************
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OU STARTING
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   RECTABLE 1 1ST
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   PLOTFILE 1 P1ONRUN 1ST ONTARIOEUCLID_PHASE1OPS.AD\01H1G001.PLT 32
   PLOTFILE 1 P1ONIDLE 1ST ONTARIOEUCLID_PHASE1OPS.AD\01H1G002.PLT 33
   PLOTFILE 1 P1OFFSIT 1ST ONTARIOEUCLID_PHASE1OPS.AD\01H1G003.PLT 34
   PLOTFILE 1 P1GEN 1ST ONTARIOEUCLID_PHASE1OPS.AD\01H1G004.PLT 35
   PLOTFILE PERIOD ALL ONTARIOEUCLID_PHASE1OPS.AD\PE00GALL.PLT 36
   PLOTFILE PERIOD P1ONRUN ONTARIOEUCLID_PHASE1OPS.AD\PE00G001.PLT 37
   PLOTFILE PERIOD P1ONIDLE ONTARIOEUCLID_PHASE1OPS.AD\PE00G002.PLT 38
   PLOTFILE PERIOD P1OFFSIT ONTARIOEUCLID_PHASE1OPS.AD\PE00G003.PLT 39
   PLOTFILE PERIOD P1GEN ONTARIOEUCLID_PHASE1OPS.AD\PE00G004.PLT 40
   SUMMFILE OntarioEuclid_Phase1Ops.sum
OU FINISHED
**
****************************************
** Project Parameters
****************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

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** Lakes Environmental AERMOD MPI
**
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**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/3/2023
** File: C:\Lakes\OntarioEuclid_Phase1Ops\OntarioEuclid_Phase1Ops.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid Phase1Ops
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_Phase1Ops.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Building 1 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330408
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439979.680, 3762795.008, 219.39, 3.11, 6.98
** 440019.164, 3762795.008, 219.45, 3.11, 6.98
** ------------------------------------------------------------------------
   LOCATION L0011959     VOLUME   439987.180 3762795.008 219.43
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   LOCATION L0011960     VOLUME   440002.180 3762795.008 219.45
   LOCATION L0011961     VOLUME   440017.180 3762795.008 219.47
** End of LINE VOLUME Source ID = SLINE26
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Building 2 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330416
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439977.938, 3762735.201, 218.71, 3.11, 6.98
** 440018.584, 3762735.201, 218.82, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0011962     VOLUME   439985.438 3762735.201 218.79
   LOCATION L0011963     VOLUME   440000.438 3762735.201 218.84
   LOCATION L0011964     VOLUME   440015.438 3762735.201 218.88
** End of LINE VOLUME Source ID = SLINE27
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Building 3 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330399
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439995.358, 3762633.007, 217.26, 3.11, 6.98
** 439995.938, 3762581.909, 216.46, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0011953     VOLUME   439995.443 3762625.507 217.14
   LOCATION L0011954     VOLUME   439995.613 3762610.508 216.95
   LOCATION L0011955     VOLUME   439995.784 3762595.509 216.73
** End of LINE VOLUME Source ID = SLINE28
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Building 4 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330427
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440075.488, 3762801.976, 219.54, 3.11, 6.98
```

```
** 440117.294, 3762801.976, 219.49, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0011965     VOLUME   440082.988 3762801.976 219.48
   LOCATION L0011966     VOLUME   440097.988 3762801.976 219.47
   LOCATION L0011967     VOLUME   440112.988 3762801.976 219.49
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Building 5 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1508732
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440078.391, 3762717.201, 218.56, 3.11, 6.98
** 440078.391, 3762659.136, 217.97, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0011968     VOLUME   440078.391 3762709.701 218.57
   LOCATION L0011969     VOLUME   440078.391 3762694.701 218.38
   LOCATION L0011970     VOLUME   440078.391 3762679.701 218.18
   LOCATION L0011971     VOLUME   440078.391 3762664.701 218.00
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC Building 6 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1839182
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440237.489, 3762788.041, 219.93, 3.11, 6.98
** 440238.651, 3762709.653, 219.12, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0011972     VOLUME   440237.600 3762780.541 219.88
   LOCATION L0011973     VOLUME   440237.823 3762765.543 219.78
   LOCATION L0011974     VOLUME   440238.045 3762750.545 219.62
   LOCATION L0011975     VOLUME   440238.267 3762735.546 219.44
   LOCATION L0011976     VOLUME   440238.489 3762720.548 219.27
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Building 7 Idle
** PREFIX
** Length of Side = 15.00
```

```
** Configuration = Adjacent
** Emission Rate = 0.0660826
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440296.716, 3762795.008, 219.86, 3.11, 6.98
** 440296.716, 3762742.169, 218.72, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0011977     VOLUME   440296.716 3762787.508 219.78
   LOCATION L0011978     VOLUME   440296.716 3762772.508 219.34
   LOCATION L0011979     VOLUME   440296.716 3762757.508 218.93
   LOCATION L0011980     VOLUME   440296.716 3762742.508 218.70
** End of LINE VOLUME Source ID = SLINE32
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Building 8 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.150874
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440246.780, 3762543.586, 214.83, 3.11, 6.98
** 440301.942, 3762543.586, 214.44, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0011981     VOLUME   440254.280 3762543.586 214.62
   LOCATION L0011982     VOLUME   440269.280 3762543.586 214.34
   LOCATION L0011983     VOLUME   440284.280 3762543.586 214.39
   LOCATION L0011984     VOLUME   440299.280 3762543.586 214.40
** End of LINE VOLUME Source ID = SLINE33
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Building 9  Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.150876
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440053.423, 3762439.650, 215.38, 3.11, 6.98
** 440121.359, 3762440.230, 215.09, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0011985     VOLUME   440060.923 3762439.714 215.39
   LOCATION L0011986     VOLUME   440075.922 3762439.842 215.27
   LOCATION L0011987     VOLUME   440090.921 3762439.970 215.16
   LOCATION L0011988     VOLUME   440105.921 3762440.098 215.11
   LOCATION L0011989     VOLUME   440120.920 3762440.227 215.12
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** End of LINE VOLUME Source ID = SLINE34
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Building 10 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330475
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440051.681, 3762374.617, 214.11, 3.11, 6.98
** 440121.940, 3762375.778, 214.33, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0011990     VOLUME   440059.180 3762374.741 214.42
   LOCATION L0011991     VOLUME   440074.178 3762374.989 214.38
   LOCATION L0011992     VOLUME   440089.176 3762375.237 214.35
   LOCATION L0011993     VOLUME   440104.174 3762375.484 214.32
   LOCATION L0011994     VOLUME   440119.172 3762375.732 214.26
** End of LINE VOLUME Source ID = SLINE35
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC Building 11 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330382
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 2
** 439969.228, 3762487.263, 214.84, 0.52, 6.98
** 439995.938, 3762463.456, 214.83, 0.52, 6.98
** ------------------------------------------------------------------
   LOCATION L0011995     VOLUME   439974.827 3762482.273 214.89
   LOCATION L0011996     VOLUME   439986.025 3762472.292 214.87
** End of LINE VOLUME Source ID = SLINE36
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Building 12 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0330377
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439972.712, 3762357.197, 213.29, 3.11, 6.98
** 439994.196, 3762332.229, 213.46, 3.11, 6.98
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** ----------------------------------------------------------------------
   LOCATION L0011997     VOLUME   439977.604 3762351.512 213.39
   LOCATION L0011998     VOLUME   439987.388 3762340.142 213.51
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Building 13 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0660877
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440018.003, 3762237.583, 212.71, 3.11, 6.98
** 440088.262, 3762238.164, 212.91, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0011999     VOLUME   440025.503 3762237.645 212.81
   LOCATION L0012000     VOLUME   440040.502 3762237.769 212.89
   LOCATION L0012001     VOLUME   440055.502 3762237.893 212.91
   LOCATION L0012002     VOLUME   440070.501 3762238.017 212.92
   LOCATION L0012003     VOLUME   440085.501 3762238.141 212.91
** End of LINE VOLUME Source ID = SLINE38
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE19
** DESCRSRC Schaefer btwn Euclid & Sultana
** PREFIX
** Length of Side = 13.00
** Configuration = Adjacent
** Emission Rate = 0.070456918
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439910.981, 3762880.968, 220.43, 3.11, 6.05
** 440369.873, 3762879.519, 221.00, 3.11, 6.05
** ----------------------------------------------------------------------
   LOCATION L0012462     VOLUME   439917.481 3762880.948 220.41
   LOCATION L0012463     VOLUME   439930.481 3762880.907 220.52
   LOCATION L0012464     VOLUME   439943.481 3762880.866 220.58
   LOCATION L0012465     VOLUME   439956.481 3762880.825 220.56
   LOCATION L0012466     VOLUME   439969.481 3762880.783 220.56
   LOCATION L0012467     VOLUME   439982.481 3762880.742 220.59
   LOCATION L0012468     VOLUME   439995.481 3762880.701 220.60
   LOCATION L0012469     VOLUME   440008.481 3762880.660 220.58
   LOCATION L0012470     VOLUME   440021.481 3762880.619 220.54
   LOCATION L0012471     VOLUME   440034.480 3762880.578 220.49
   LOCATION L0012472     VOLUME   440047.480 3762880.537 220.47
   LOCATION L0012473     VOLUME   440060.480 3762880.496 220.50
   LOCATION L0012474     VOLUME   440073.480 3762880.455 220.56
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   LOCATION L0012475     VOLUME   440086.480 3762880.414 220.65
   LOCATION L0012476     VOLUME   440099.480 3762880.373 220.72
   LOCATION L0012477     VOLUME   440112.480 3762880.332 220.77
   LOCATION L0012478     VOLUME   440125.480 3762880.291 220.82
   LOCATION L0012479     VOLUME   440138.480 3762880.250 220.87
   LOCATION L0012480     VOLUME   440151.480 3762880.209 220.92
   LOCATION L0012481     VOLUME   440164.480 3762880.168 220.97
   LOCATION L0012482     VOLUME   440177.480 3762880.127 221.00
   LOCATION L0012483     VOLUME   440190.480 3762880.086 221.02
   LOCATION L0012484     VOLUME   440203.480 3762880.045 221.04
   LOCATION L0012485     VOLUME   440216.480 3762880.003 221.05
   LOCATION L0012486     VOLUME   440229.479 3762879.962 221.06
   LOCATION L0012487     VOLUME   440242.479 3762879.921 221.08
   LOCATION L0012488     VOLUME   440255.479 3762879.880 221.11
   LOCATION L0012489     VOLUME   440268.479 3762879.839 221.15
   LOCATION L0012490     VOLUME   440281.479 3762879.798 221.17
   LOCATION L0012491     VOLUME   440294.479 3762879.757 221.19
   LOCATION L0012492     VOLUME   440307.479 3762879.716 221.19
   LOCATION L0012493     VOLUME   440320.479 3762879.675 221.19
   LOCATION L0012494     VOLUME   440333.479 3762879.634 221.19
   LOCATION L0012495     VOLUME   440346.479 3762879.593 221.19
   LOCATION L0012496     VOLUME   440359.479 3762879.552 221.08
** End of LINE VOLUME Source ID = SLINE19
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE20
** DESCRSRC Sultana btwn Schaefer & Edison
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.112287945
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440370.861, 3762872.001, 220.82, 3.11, 5.58
** 440388.866, 3762079.941, 211.66, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0012532     VOLUME   440370.997 3762866.003 220.76
   LOCATION L0012533     VOLUME   440371.270 3762854.006 220.57
   LOCATION L0012534     VOLUME   440371.543 3762842.009 220.42
   LOCATION L0012535     VOLUME   440371.815 3762830.012 220.28
   LOCATION L0012536     VOLUME   440372.088 3762818.015 220.15
   LOCATION L0012537     VOLUME   440372.361 3762806.018 220.02
   LOCATION L0012538     VOLUME   440372.633 3762794.021 219.89
   LOCATION L0012539     VOLUME   440372.906 3762782.025 219.76
   LOCATION L0012540     VOLUME   440373.179 3762770.028 219.63
   LOCATION L0012541     VOLUME   440373.452 3762758.031 219.50
   LOCATION L0012542     VOLUME   440373.724 3762746.034 219.38
   LOCATION L0012543     VOLUME   440373.997 3762734.037 219.25
   LOCATION L0012544     VOLUME   440374.270 3762722.040 219.11
   LOCATION L0012545     VOLUME   440374.542 3762710.043 218.97
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LOCATION L0012546 VOLUME 440374.815 3762698.046 218.83
LOCATION L0012547 VOLUME 440375.088 3762686.049 218.74
LOCATION L0012548 VOLUME 440375.361 3762674.052 218.65
LOCATION L0012549 VOLUME 440375.633 3762662.056 218.55
LOCATION L0012550 VOLUME 440375.906 3762650.059 218.44
LOCATION L0012551 VOLUME 440376.179 3762638.062 218.33
LOCATION L0012552 VOLUME 440376.452 3762626.065 218.22
LOCATION L0012553 VOLUME 440376.724 3762614.068 218.10
LOCATION L0012554 VOLUME 440376.997 3762602.071 217.95
LOCATION L0012555 VOLUME 440377.270 3762590.074 217.76
LOCATION L0012556 VOLUME 440377.542 3762578.077 217.56
LOCATION L0012557 VOLUME 440377.815 3762566.080 217.44
LOCATION L0012558 VOLUME 440378.088 3762554.083 217.34
LOCATION L0012559 VOLUME 440378.361 3762542.087 217.29
LOCATION L0012560 VOLUME 440378.633 3762530.090 217.43
LOCATION L0012561 VOLUME 440378.906 3762518.093 217.57
LOCATION L0012562 VOLUME 440379.179 3762506.096 217.58
LOCATION L0012563 VOLUME 440379.451 3762494.099 217.51
LOCATION L0012564 VOLUME 440379.724 3762482.102 217.42
LOCATION L0012565 VOLUME 440379.997 3762470.105 216.81
LOCATION L0012566 VOLUME 440380.270 3762458.108 216.22
LOCATION L0012567 VOLUME 440380.542 3762446.111 215.82
LOCATION L0012568 VOLUME 440380.815 3762434.114 215.62
LOCATION L0012569 VOLUME 440381.088 3762422.118 215.42
LOCATION L0012570 VOLUME 440381.361 3762410.121 215.24
LOCATION L0012571 VOLUME 440381.633 3762398.124 215.06
LOCATION L0012572 VOLUME 440381.906 3762386.127 214.90
LOCATION L0012573 VOLUME 440382.179 3762374.130 214.81
LOCATION L0012574 VOLUME 440382.451 3762362.133 214.71
LOCATION L0012575 VOLUME 440382.724 3762350.136 214.62
LOCATION L0012576 VOLUME 440382.997 3762338.139 214.54
LOCATION L0012577 VOLUME 440383.270 3762326.142 214.43
LOCATION L0012578 VOLUME 440383.542 3762314.145 214.25
LOCATION L0012579 VOLUME 440383.815 3762302.149 214.06
LOCATION L0012580 VOLUME 440384.088 3762290.152 213.89
LOCATION L0012581 VOLUME 440384.361 3762278.155 213.72
LOCATION L0012582 VOLUME 440384.633 3762266.158 213.56
LOCATION L0012583 VOLUME 440384.906 3762254.161 213.46
LOCATION L0012584 VOLUME 440385.179 3762242.164 213.37
LOCATION L0012585 VOLUME 440385.451 3762230.167 213.29
LOCATION L0012586 VOLUME 440385.724 3762218.170 213.22
LOCATION L0012587 VOLUME 440385.997 3762206.173 213.15
LOCATION L0012588 VOLUME 440386.270 3762194.176 213.06
LOCATION L0012589 VOLUME 440386.542 3762182.180 212.97
LOCATION L0012590 VOLUME 440386.815 3762170.183 212.86
LOCATION L0012591 VOLUME 440387.088 3762158.186 212.71
LOCATION L0012592 VOLUME 440387.360 3762146.189 212.56
LOCATION L0012593 VOLUME 440387.633 3762134.192 212.36
LOCATION L0012594 VOLUME 440387.906 3762122.195 212.14
LOCATION L0012595 VOLUME 440388.179 3762110.198 211.95
LOCATION L0012596 VOLUME 440388.451 3762098.201 211.82

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   LOCATION L0012597     VOLUME   440388.724 3762086.204 211.69
** End of LINE VOLUME Source ID = SLINE20
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE24
** DESCRSRC Euclid btwn Schaefer &Edison
** PREFIX
** Length of Side = 27.00
** Configuration = Adjacent
** Emission Rate = 0.254465488
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439896.782, 3762874.682, 220.09, 3.11, 12.56
** 439899.515, 3762076.692, 210.14, 3.11, 12.56
** ----------------------------------------------------------------
   LOCATION L0012724     VOLUME   439896.828 3762861.182 219.98
   LOCATION L0012725     VOLUME   439896.920 3762834.183 219.58
   LOCATION L0012726     VOLUME   439897.013 3762807.183 219.19
   LOCATION L0012727     VOLUME   439897.105 3762780.183 218.80
   LOCATION L0012728     VOLUME   439897.198 3762753.183 218.42
   LOCATION L0012729     VOLUME   439897.290 3762726.183 218.06
   LOCATION L0012730     VOLUME   439897.383 3762699.183 217.70
   LOCATION L0012731     VOLUME   439897.475 3762672.183 217.31
   LOCATION L0012732     VOLUME   439897.568 3762645.184 216.99
   LOCATION L0012733     VOLUME   439897.660 3762618.184 216.64
   LOCATION L0012734     VOLUME   439897.753 3762591.184 216.29
   LOCATION L0012735     VOLUME   439897.845 3762564.184 215.98
   LOCATION L0012736     VOLUME   439897.938 3762537.184 215.67
   LOCATION L0012737     VOLUME   439898.030 3762510.184 215.35
   LOCATION L0012738     VOLUME   439898.122 3762483.185 215.07
   LOCATION L0012739     VOLUME   439898.215 3762456.185 214.77
   LOCATION L0012740     VOLUME   439898.307 3762429.185 214.41
   LOCATION L0012741     VOLUME   439898.400 3762402.185 214.05
   LOCATION L0012742     VOLUME   439898.492 3762375.185 213.71
   LOCATION L0012743     VOLUME   439898.585 3762348.185 213.34
   LOCATION L0012744     VOLUME   439898.677 3762321.186 212.96
   LOCATION L0012745     VOLUME   439898.770 3762294.186 212.54
   LOCATION L0012746     VOLUME   439898.862 3762267.186 212.07
   LOCATION L0012747     VOLUME   439898.955 3762240.186 211.64
   LOCATION L0012748     VOLUME   439899.047 3762213.186 211.27
   LOCATION L0012749     VOLUME   439899.140 3762186.186 210.96
   LOCATION L0012750     VOLUME   439899.232 3762159.187 210.70
   LOCATION L0012751     VOLUME   439899.325 3762132.187 210.50
   LOCATION L0012752     VOLUME   439899.417 3762105.187 210.32
   LOCATION L0012753     VOLUME   439899.509 3762078.187 210.12
** End of LINE VOLUME Source ID = SLINE24
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE21
** DESCRSRC Edison btwn Euclid & Sultana
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** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.06730474
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439913.010, 3762074.518, 210.14, 3.11, 5.58
** 440387.875, 3762074.024, 211.52, 3.11, 5.58
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   LOCATION L0012598     VOLUME   439919.010 3762074.512 210.19
   LOCATION L0012599     VOLUME   439931.010 3762074.499 210.20
   LOCATION L0012600     VOLUME   439943.010 3762074.487 210.22
   LOCATION L0012601     VOLUME   439955.010 3762074.474 210.25
   LOCATION L0012602     VOLUME   439967.010 3762074.462 210.24
   LOCATION L0012603     VOLUME   439979.010 3762074.449 210.22
   LOCATION L0012604     VOLUME   439991.010 3762074.437 210.21
   LOCATION L0012605     VOLUME   440003.010 3762074.425 210.22
   LOCATION L0012606     VOLUME   440015.010 3762074.412 210.23
   LOCATION L0012607     VOLUME   440027.010 3762074.400 210.24
   LOCATION L0012608     VOLUME   440039.010 3762074.387 210.26
   LOCATION L0012609     VOLUME   440051.010 3762074.375 210.29
   LOCATION L0012610     VOLUME   440063.010 3762074.362 210.31
   LOCATION L0012611     VOLUME   440075.010 3762074.350 210.33
   LOCATION L0012612     VOLUME   440087.010 3762074.337 210.35
   LOCATION L0012613     VOLUME   440099.010 3762074.325 210.37
   LOCATION L0012614     VOLUME   440111.010 3762074.312 210.38
   LOCATION L0012615     VOLUME   440123.010 3762074.300 210.41
   LOCATION L0012616     VOLUME   440135.010 3762074.287 210.45
   LOCATION L0012617     VOLUME   440147.010 3762074.275 210.49
   LOCATION L0012618     VOLUME   440159.010 3762074.262 210.54
   LOCATION L0012619     VOLUME   440171.010 3762074.250 210.61
   LOCATION L0012620     VOLUME   440183.010 3762074.237 210.69
   LOCATION L0012621     VOLUME   440195.010 3762074.225 210.76
   LOCATION L0012622     VOLUME   440207.010 3762074.212 210.80
   LOCATION L0012623     VOLUME   440219.010 3762074.200 210.85
   LOCATION L0012624     VOLUME   440231.010 3762074.188 210.89
   LOCATION L0012625     VOLUME   440243.010 3762074.175 210.94
   LOCATION L0012626     VOLUME   440255.010 3762074.163 210.98
   LOCATION L0012627     VOLUME   440267.010 3762074.150 211.02
   LOCATION L0012628     VOLUME   440279.010 3762074.138 211.03
   LOCATION L0012629     VOLUME   440291.010 3762074.125 211.03
   LOCATION L0012630     VOLUME   440303.010 3762074.113 211.00
   LOCATION L0012631     VOLUME   440315.010 3762074.100 210.95
   LOCATION L0012632     VOLUME   440327.010 3762074.088 210.88
   LOCATION L0012633     VOLUME   440339.010 3762074.075 210.80
   LOCATION L0012634     VOLUME   440351.010 3762074.063 210.90
   LOCATION L0012635     VOLUME   440363.010 3762074.050 211.13
   LOCATION L0012636     VOLUME   440375.010 3762074.038 211.32
   LOCATION L0012637     VOLUME   440387.010 3762074.025 211.47
** End of LINE VOLUME Source ID = SLINE21
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE22
** DESCRSRC Edison e/o Sultana
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.109354258
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440393.829, 3762073.840, 211.58, 3.11, 5.58
** 441165.394, 3762075.321, 211.37, 3.11, 5.58
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   LOCATION L0012638     VOLUME   440399.829 3762073.852 211.57
   LOCATION L0012639     VOLUME   440411.829 3762073.875 211.57
   LOCATION L0012640     VOLUME   440423.829 3762073.898 211.57
   LOCATION L0012641     VOLUME   440435.829 3762073.921 211.53
   LOCATION L0012642     VOLUME   440447.829 3762073.944 211.50
   LOCATION L0012643     VOLUME   440459.829 3762073.967 211.48
   LOCATION L0012644     VOLUME   440471.829 3762073.990 211.45
   LOCATION L0012645     VOLUME   440483.829 3762074.013 211.48
   LOCATION L0012646     VOLUME   440495.829 3762074.036 211.52
   LOCATION L0012647     VOLUME   440507.829 3762074.059 211.54
   LOCATION L0012648     VOLUME   440519.829 3762074.082 211.56
   LOCATION L0012649     VOLUME   440531.829 3762074.105 211.57
   LOCATION L0012650     VOLUME   440543.829 3762074.128 211.57
   LOCATION L0012651     VOLUME   440555.829 3762074.151 211.58
   LOCATION L0012652     VOLUME   440567.829 3762074.174 211.59
   LOCATION L0012653     VOLUME   440579.829 3762074.197 211.57
   LOCATION L0012654     VOLUME   440591.829 3762074.220 211.51
   LOCATION L0012655     VOLUME   440603.829 3762074.243 211.46
   LOCATION L0012656     VOLUME   440615.829 3762074.266 211.47
   LOCATION L0012657     VOLUME   440627.829 3762074.289 211.49
   LOCATION L0012658     VOLUME   440639.829 3762074.312 211.58
   LOCATION L0012659     VOLUME   440651.829 3762074.335 211.67
   LOCATION L0012660     VOLUME   440663.829 3762074.358 211.77
   LOCATION L0012661     VOLUME   440675.829 3762074.381 211.87
   LOCATION L0012662     VOLUME   440687.829 3762074.404 211.92
   LOCATION L0012663     VOLUME   440699.829 3762074.428 211.97
   LOCATION L0012664     VOLUME   440711.829 3762074.451 212.00
   LOCATION L0012665     VOLUME   440723.829 3762074.474 212.02
   LOCATION L0012666     VOLUME   440735.829 3762074.497 212.05
   LOCATION L0012667     VOLUME   440747.829 3762074.520 212.08
   LOCATION L0012668     VOLUME   440759.829 3762074.543 212.09
   LOCATION L0012669     VOLUME   440771.829 3762074.566 212.08
   LOCATION L0012670     VOLUME   440783.829 3762074.589 212.04
   LOCATION L0012671     VOLUME   440795.829 3762074.612 211.93
   LOCATION L0012672     VOLUME   440807.829 3762074.635 211.84
   LOCATION L0012673     VOLUME   440819.829 3762074.658 211.79
   LOCATION L0012674     VOLUME   440831.829 3762074.681 211.75
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   LOCATION L0012675     VOLUME   440843.829 3762074.704 211.78
   LOCATION L0012676     VOLUME   440855.829 3762074.727 211.81
   LOCATION L0012677     VOLUME   440867.829 3762074.750 211.87
   LOCATION L0012678     VOLUME   440879.829 3762074.773 211.94
   LOCATION L0012679     VOLUME   440891.828 3762074.796 211.94
   LOCATION L0012680     VOLUME   440903.828 3762074.819 211.91
   LOCATION L0012681     VOLUME   440915.828 3762074.842 211.92
   LOCATION L0012682     VOLUME   440927.828 3762074.865 211.93
   LOCATION L0012683     VOLUME   440939.828 3762074.888 211.92
   LOCATION L0012684     VOLUME   440951.828 3762074.911 211.89
   LOCATION L0012685     VOLUME   440963.828 3762074.934 211.87
   LOCATION L0012686     VOLUME   440975.828 3762074.957 211.85
   LOCATION L0012687     VOLUME   440987.828 3762074.980 211.82
   LOCATION L0012688     VOLUME   440999.828 3762075.003 211.72
   LOCATION L0012689     VOLUME   441011.828 3762075.026 211.63
   LOCATION L0012690     VOLUME   441023.828 3762075.049 211.60
   LOCATION L0012691     VOLUME   441035.828 3762075.072 211.57
   LOCATION L0012692     VOLUME   441047.828 3762075.095 211.56
   LOCATION L0012693     VOLUME   441059.828 3762075.118 211.56
   LOCATION L0012694     VOLUME   441071.828 3762075.142 211.52
   LOCATION L0012695     VOLUME   441083.828 3762075.165 211.48
   LOCATION L0012696     VOLUME   441095.828 3762075.188 211.41
   LOCATION L0012697     VOLUME   441107.828 3762075.211 211.32
   LOCATION L0012698     VOLUME   441119.828 3762075.234 211.29
   LOCATION L0012699     VOLUME   441131.828 3762075.257 211.30
   LOCATION L0012700     VOLUME   441143.828 3762075.280 211.31
   LOCATION L0012701     VOLUME   441155.828 3762075.303 211.33
** End of LINE VOLUME Source ID = SLINE22
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE23
** DESCRSRC Euclid n/o Schaefer
** PREFIX
** Length of Side = 27.00
** Configuration = Adjacent
** Emission Rate = 0.189764927
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439895.743, 3762877.491, 220.26, 3.11, 12.56
** 439901.848, 3763472.572, 227.18, 3.11, 12.56
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   LOCATION L0012702     VOLUME   439895.882 3762890.991 220.41
   LOCATION L0012703     VOLUME   439896.159 3762917.989 220.75
   LOCATION L0012704     VOLUME   439896.436 3762944.988 221.03
   LOCATION L0012705     VOLUME   439896.713 3762971.986 221.31
   LOCATION L0012706     VOLUME   439896.990 3762998.985 221.60
   LOCATION L0012707     VOLUME   439897.267 3763025.984 221.88
   LOCATION L0012708     VOLUME   439897.544 3763052.982 222.17
   LOCATION L0012709     VOLUME   439897.821 3763079.981 222.49
   LOCATION L0012710     VOLUME   439898.098 3763106.979 222.82
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   LOCATION L0012711     VOLUME   439898.375 3763133.978 223.17
   LOCATION L0012712     VOLUME   439898.652 3763160.976 223.55
   LOCATION L0012713     VOLUME   439898.929 3763187.975 223.93
   LOCATION L0012714     VOLUME   439899.206 3763214.974 224.33
   LOCATION L0012715     VOLUME   439899.483 3763241.972 224.73
   LOCATION L0012716     VOLUME   439899.759 3763268.971 225.09
   LOCATION L0012717     VOLUME   439900.036 3763295.969 225.42
   LOCATION L0012718     VOLUME   439900.313 3763322.968 225.75
   LOCATION L0012719     VOLUME   439900.590 3763349.966 226.05
   LOCATION L0012720     VOLUME   439900.867 3763376.965 226.34
   LOCATION L0012721     VOLUME   439901.144 3763403.964 226.59
   LOCATION L0012722     VOLUME   439901.421 3763430.962 226.83
   LOCATION L0012723     VOLUME   439901.698 3763457.961 227.07
** End of LINE VOLUME Source ID = SLINE23
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE25
** DESCRSRC Euclid s/o Edison
** PREFIX
** Length of Side = 27.00
** Configuration = Adjacent
** Emission Rate = 0.196365724
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439898.016, 3762063.116, 209.92, 3.11, 12.56
** 439895.604, 3761447.370, 204.23, 3.11, 12.56
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   LOCATION L0012754     VOLUME   439897.963 3762049.616 209.88
   LOCATION L0012755     VOLUME   439897.857 3762022.616 209.69
   LOCATION L0012756     VOLUME   439897.751 3761995.616 209.48
   LOCATION L0012757     VOLUME   439897.646 3761968.616 209.25
   LOCATION L0012758     VOLUME   439897.540 3761941.617 209.00
   LOCATION L0012759     VOLUME   439897.434 3761914.617 208.76
   LOCATION L0012760     VOLUME   439897.328 3761887.617 208.53
   LOCATION L0012761     VOLUME   439897.223 3761860.617 208.30
   LOCATION L0012762     VOLUME   439897.117 3761833.617 208.07
   LOCATION L0012763     VOLUME   439897.011 3761806.618 207.83
   LOCATION L0012764     VOLUME   439896.905 3761779.618 207.59
   LOCATION L0012765     VOLUME   439896.800 3761752.618 207.34
   LOCATION L0012766     VOLUME   439896.694 3761725.618 207.11
   LOCATION L0012767     VOLUME   439896.588 3761698.618 206.89
   LOCATION L0012768     VOLUME   439896.482 3761671.619 206.66
   LOCATION L0012769     VOLUME   439896.377 3761644.619 206.42
   LOCATION L0012770     VOLUME   439896.271 3761617.619 206.21
   LOCATION L0012771     VOLUME   439896.165 3761590.619 206.00
   LOCATION L0012772     VOLUME   439896.059 3761563.619 205.73
   LOCATION L0012773     VOLUME   439895.954 3761536.620 205.41
   LOCATION L0012774     VOLUME   439895.848 3761509.620 205.09
   LOCATION L0012775     VOLUME   439895.742 3761482.620 204.78
   LOCATION L0012776     VOLUME   439895.636 3761455.620 204.47
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** End of LINE VOLUME Source ID = SLINE25
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Onsite Building 1
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.071417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.723, 3762869.914, 220.47, 3.11, 5.58
** 440153.303, 3762781.342, 219.32, 3.11, 5.58
** 440038.286, 3762782.601, 219.42, 3.11, 5.58
** 440037.446, 3762773.786, 219.18, 3.11, 5.58
** 439977.839, 3762774.206, 219.07, 3.11, 5.58
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   LOCATION L0013092     VOLUME   440153.695 3762863.914 220.47
   LOCATION L0013093     VOLUME   440153.638 3762851.914 220.15
   LOCATION L0013094     VOLUME   440153.581 3762839.914 219.95
   LOCATION L0013095     VOLUME   440153.524 3762827.914 219.76
   LOCATION L0013096     VOLUME   440153.467 3762815.915 219.59
   LOCATION L0013097     VOLUME   440153.410 3762803.915 219.46
   LOCATION L0013098     VOLUME   440153.353 3762791.915 219.33
   LOCATION L0013099     VOLUME   440151.876 3762781.358 219.24
   LOCATION L0013100     VOLUME   440139.877 3762781.489 219.24
   LOCATION L0013101     VOLUME   440127.878 3762781.620 219.28
   LOCATION L0013102     VOLUME   440115.878 3762781.752 219.32
   LOCATION L0013103     VOLUME   440103.879 3762781.883 219.31
   LOCATION L0013104     VOLUME   440091.880 3762782.015 219.31
   LOCATION L0013105     VOLUME   440079.881 3762782.146 219.34
   LOCATION L0013106     VOLUME   440067.881 3762782.277 219.36
   LOCATION L0013107     VOLUME   440055.882 3762782.409 219.37
   LOCATION L0013108     VOLUME   440043.883 3762782.540 219.38
   LOCATION L0013109     VOLUME   440037.679 3762776.227 219.32
   LOCATION L0013110     VOLUME   440027.899 3762773.853 219.30
   LOCATION L0013111     VOLUME   440015.899 3762773.938 219.29
   LOCATION L0013112     VOLUME   440003.899 3762774.022 219.27
   LOCATION L0013113     VOLUME   439991.900 3762774.107 219.24
   LOCATION L0013114     VOLUME   439979.900 3762774.191 219.21
** End of LINE VOLUME Source ID = SLINE6
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Onsite Building 2
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.077690289
** Vertical Dimension = 6.22
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** SZINIT = 2.89
** Nodes = 5
** 440153.303, 3762869.494, 220.45, 3.11, 5.58
** 440153.723, 3762762.872, 219.11, 3.11, 5.58
** 440038.706, 3762761.613, 219.20, 3.11, 5.58
** 440037.866, 3762747.341, 218.83, 3.11, 5.58
** 439977.839, 3762746.501, 218.71, 3.11, 5.58
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   LOCATION L0013115     VOLUME   440153.327 3762863.494 220.46
   LOCATION L0013116     VOLUME   440153.374 3762851.494 220.14
   LOCATION L0013117     VOLUME   440153.421 3762839.494 219.95
   LOCATION L0013118     VOLUME   440153.469 3762827.495 219.75
   LOCATION L0013119     VOLUME   440153.516 3762815.495 219.59
   LOCATION L0013120     VOLUME   440153.563 3762803.495 219.46
   LOCATION L0013121     VOLUME   440153.610 3762791.495 219.33
   LOCATION L0013122     VOLUME   440153.658 3762779.495 219.23
   LOCATION L0013123     VOLUME   440153.705 3762767.495 219.14
   LOCATION L0013124     VOLUME   440146.346 3762762.791 219.06
   LOCATION L0013125     VOLUME   440134.347 3762762.660 219.07
   LOCATION L0013126     VOLUME   440122.348 3762762.529 219.11
   LOCATION L0013127     VOLUME   440110.349 3762762.397 219.13
   LOCATION L0013128     VOLUME   440098.349 3762762.266 219.14
   LOCATION L0013129     VOLUME   440086.350 3762762.134 219.16
   LOCATION L0013130     VOLUME   440074.351 3762762.003 219.18
   LOCATION L0013131     VOLUME   440062.351 3762761.872 219.19
   LOCATION L0013132     VOLUME   440050.352 3762761.740 219.20
   LOCATION L0013133     VOLUME   440038.685 3762761.261 219.20
   LOCATION L0013134     VOLUME   440037.980 3762749.281 219.06
   LOCATION L0013135     VOLUME   440027.811 3762747.200 219.03
   LOCATION L0013136     VOLUME   440015.812 3762747.032 219.02
   LOCATION L0013137     VOLUME   440003.814 3762746.864 218.98
   LOCATION L0013138     VOLUME   439991.815 3762746.697 218.95
   LOCATION L0013139     VOLUME   439979.816 3762746.529 218.91
** End of LINE VOLUME Source ID = SLINE7
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Onsite Building 3
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.104488189
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440152.464, 3762870.334, 220.46, 3.11, 5.58
** 440153.723, 3762630.644, 217.47, 3.11, 5.58
** 440047.521, 3762597.062, 217.53, 3.11, 5.58
** 440044.163, 3762611.754, 217.81, 3.11, 5.58
** 440012.260, 3762611.754, 217.20, 3.11, 5.58
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   LOCATION L0013140     VOLUME   440152.495 3762864.334 220.48
   LOCATION L0013141     VOLUME   440152.558 3762852.334 220.16
   LOCATION L0013142     VOLUME   440152.621 3762840.334 219.96
   LOCATION L0013143     VOLUME   440152.684 3762828.334 219.76
   LOCATION L0013144     VOLUME   440152.747 3762816.334 219.60
   LOCATION L0013145     VOLUME   440152.811 3762804.335 219.47
   LOCATION L0013146     VOLUME   440152.874 3762792.335 219.33
   LOCATION L0013147     VOLUME   440152.937 3762780.335 219.24
   LOCATION L0013148     VOLUME   440153.000 3762768.335 219.14
   LOCATION L0013149     VOLUME   440153.063 3762756.335 219.06
   LOCATION L0013150     VOLUME   440153.126 3762744.335 219.01
   LOCATION L0013151     VOLUME   440153.189 3762732.336 218.96
   LOCATION L0013152     VOLUME   440153.252 3762720.336 218.83
   LOCATION L0013153     VOLUME   440153.315 3762708.336 218.69
   LOCATION L0013154     VOLUME   440153.378 3762696.336 218.52
   LOCATION L0013155     VOLUME   440153.441 3762684.336 218.27
   LOCATION L0013156     VOLUME   440153.504 3762672.336 218.02
   LOCATION L0013157     VOLUME   440153.567 3762660.337 217.82
   LOCATION L0013158     VOLUME   440153.630 3762648.337 217.64
   LOCATION L0013159     VOLUME   440153.693 3762636.337 217.46
   LOCATION L0013160     VOLUME   440147.710 3762628.742 217.28
   LOCATION L0013161     VOLUME   440136.268 3762625.125 217.18
   LOCATION L0013162     VOLUME   440124.826 3762621.507 217.16
   LOCATION L0013163     VOLUME   440113.385 3762617.889 217.17
   LOCATION L0013164     VOLUME   440101.943 3762614.271 217.26
   LOCATION L0013165     VOLUME   440090.501 3762610.653 217.36
   LOCATION L0013166     VOLUME   440079.060 3762607.035 217.41
   LOCATION L0013167     VOLUME   440067.618 3762603.417 217.47
   LOCATION L0013168     VOLUME   440056.177 3762599.799 217.54
   LOCATION L0013169     VOLUME   440046.870 3762599.911 217.62
   LOCATION L0013170     VOLUME   440044.196 3762611.609 217.83
   LOCATION L0013171     VOLUME   440032.312 3762611.754 217.71
   LOCATION L0013172     VOLUME   440020.312 3762611.754 217.40
** End of LINE VOLUME Source ID = SLINE8
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Onite Building 4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.042309711
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440152.464, 3762869.914, 220.45, 3.11, 5.58
** 440152.884, 3762782.601, 219.33, 3.11, 5.58
** 440079.004, 3762783.021, 219.38, 3.11, 5.58
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   LOCATION L0013173     VOLUME   440152.493 3762863.914 220.47
   LOCATION L0013174     VOLUME   440152.550 3762851.914 220.15
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   LOCATION L0013175     VOLUME   440152.608 3762839.914 219.95
   LOCATION L0013176     VOLUME   440152.666 3762827.914 219.76
   LOCATION L0013177     VOLUME   440152.723 3762815.915 219.60
   LOCATION L0013178     VOLUME   440152.781 3762803.915 219.46
   LOCATION L0013179     VOLUME   440152.839 3762791.915 219.33
   LOCATION L0013180     VOLUME   440150.197 3762782.617 219.25
   LOCATION L0013181     VOLUME   440138.197 3762782.685 219.26
   LOCATION L0013182     VOLUME   440126.198 3762782.753 219.30
   LOCATION L0013183     VOLUME   440114.198 3762782.821 219.33
   LOCATION L0013184     VOLUME   440102.198 3762782.889 219.32
   LOCATION L0013185     VOLUME   440090.198 3762782.958 219.32
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Onsite Building 5
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.153937008
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 440152.884, 3762870.754, 220.48, 3.11, 5.58
** 440155.402, 3762635.681, 217.50, 3.11, 5.58
** 440062.633, 3762599.581, 217.46, 3.11, 5.58
** 440059.694, 3762709.981, 218.54, 3.11, 5.58
** 440058.855, 3762763.712, 219.18, 3.11, 5.58
** 440146.587, 3762762.452, 219.03, 3.11, 5.58
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   LOCATION L0013186     VOLUME   440152.948 3762864.754 220.49
   LOCATION L0013187     VOLUME   440153.076 3762852.755 220.16
   LOCATION L0013188     VOLUME   440153.205 3762840.755 219.97
   LOCATION L0013189     VOLUME   440153.334 3762828.756 219.77
   LOCATION L0013190     VOLUME   440153.462 3762816.757 219.60
   LOCATION L0013191     VOLUME   440153.591 3762804.757 219.47
   LOCATION L0013192     VOLUME   440153.719 3762792.758 219.34
   LOCATION L0013193     VOLUME   440153.848 3762780.759 219.24
   LOCATION L0013194     VOLUME   440153.976 3762768.759 219.15
   LOCATION L0013195     VOLUME   440154.105 3762756.760 219.07
   LOCATION L0013196     VOLUME   440154.233 3762744.761 219.03
   LOCATION L0013197     VOLUME   440154.362 3762732.761 218.98
   LOCATION L0013198     VOLUME   440154.491 3762720.762 218.86
   LOCATION L0013199     VOLUME   440154.619 3762708.763 218.72
   LOCATION L0013200     VOLUME   440154.748 3762696.763 218.56
   LOCATION L0013201     VOLUME   440154.876 3762684.764 218.31
   LOCATION L0013202     VOLUME   440155.005 3762672.765 218.05
   LOCATION L0013203     VOLUME   440155.133 3762660.766 217.85
   LOCATION L0013204     VOLUME   440155.262 3762648.766 217.66
   LOCATION L0013205     VOLUME   440155.391 3762636.767 217.48
   LOCATION L0013206     VOLUME   440145.231 3762631.723 217.30
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   LOCATION L0013207     VOLUME   440134.048 3762627.371 217.22
   LOCATION L0013208     VOLUME   440122.865 3762623.020 217.19
   LOCATION L0013209     VOLUME   440111.682 3762618.668 217.20
   LOCATION L0013210     VOLUME   440100.498 3762614.316 217.28
   LOCATION L0013211     VOLUME   440089.315 3762609.964 217.36
   LOCATION L0013212     VOLUME   440078.132 3762605.612 217.40
   LOCATION L0013213     VOLUME   440066.949 3762601.261 217.45
   LOCATION L0013214     VOLUME   440062.437 3762606.946 217.57
   LOCATION L0013215     VOLUME   440062.117 3762618.942 217.70
   LOCATION L0013216     VOLUME   440061.798 3762630.938 217.82
   LOCATION L0013217     VOLUME   440061.479 3762642.934 217.92
   LOCATION L0013218     VOLUME   440061.159 3762654.929 217.98
   LOCATION L0013219     VOLUME   440060.840 3762666.925 218.05
   LOCATION L0013220     VOLUME   440060.521 3762678.921 218.20
   LOCATION L0013221     VOLUME   440060.202 3762690.917 218.37
   LOCATION L0013222     VOLUME   440059.882 3762702.912 218.53
   LOCATION L0013223     VOLUME   440059.617 3762714.909 218.67
   LOCATION L0013224     VOLUME   440059.430 3762726.908 218.81
   LOCATION L0013225     VOLUME   440059.242 3762738.906 218.95
   LOCATION L0013226     VOLUME   440059.055 3762750.905 219.08
   LOCATION L0013227     VOLUME   440058.867 3762762.903 219.20
   LOCATION L0013228     VOLUME   440070.045 3762763.551 219.20
   LOCATION L0013229     VOLUME   440082.044 3762763.379 219.17
   LOCATION L0013230     VOLUME   440094.043 3762763.207 219.15
   LOCATION L0013231     VOLUME   440106.041 3762763.034 219.14
   LOCATION L0013232     VOLUME   440118.040 3762762.862 219.13
   LOCATION L0013233     VOLUME   440130.039 3762762.690 219.09
   LOCATION L0013234     VOLUME   440142.038 3762762.518 219.05
** End of LINE VOLUME Source ID = SLINE10
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC Onsite Building 6
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.064015748
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 3
** 440369.066, 3762686.893, 218.77, 0.52, 5.58
** 440258.246, 3762657.929, 218.44, 0.52, 5.58
** 440253.629, 3762787.219, 219.89, 0.52, 5.58
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   LOCATION L0013235     VOLUME   440363.261 3762685.376 218.72
   LOCATION L0013236     VOLUME   440351.651 3762682.342 218.66
   LOCATION L0013237     VOLUME   440340.041 3762679.307 218.47
   LOCATION L0013238     VOLUME   440328.431 3762676.273 218.22
   LOCATION L0013239     VOLUME   440316.821 3762673.238 218.02
   LOCATION L0013240     VOLUME   440305.211 3762670.204 217.91
   LOCATION L0013241     VOLUME   440293.601 3762667.170 217.90
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   LOCATION L0013242     VOLUME   440281.991 3762664.135 218.20
   LOCATION L0013243     VOLUME   440270.381 3762661.101 218.46
   LOCATION L0013244     VOLUME   440258.771 3762658.066 218.42
   LOCATION L0013245     VOLUME   440257.837 3762669.380 218.64
   LOCATION L0013246     VOLUME   440257.409 3762681.372 218.78
   LOCATION L0013247     VOLUME   440256.981 3762693.364 218.92
   LOCATION L0013248     VOLUME   440256.552 3762705.357 219.04
   LOCATION L0013249     VOLUME   440256.124 3762717.349 219.15
   LOCATION L0013250     VOLUME   440255.696 3762729.341 219.25
   LOCATION L0013251     VOLUME   440255.268 3762741.334 219.43
   LOCATION L0013252     VOLUME   440254.839 3762753.326 219.61
   LOCATION L0013253     VOLUME   440254.411 3762765.318 219.74
   LOCATION L0013254     VOLUME   440253.983 3762777.311 219.81
** End of LINE VOLUME Source ID = SLINE11
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Onsite Building 7
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057874016
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440368.646, 3762688.573, 218.78, 3.11, 5.58
** 440279.655, 3762665.065, 218.35, 3.11, 5.58
** 440278.395, 3762793.515, 219.79, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013255     VOLUME   440362.845 3762687.040 218.73
   LOCATION L0013256     VOLUME   440351.243 3762683.975 218.67
   LOCATION L0013257     VOLUME   440339.641 3762680.911 218.48
   LOCATION L0013258     VOLUME   440328.039 3762677.846 218.23
   LOCATION L0013259     VOLUME   440316.437 3762674.781 218.04
   LOCATION L0013260     VOLUME   440304.835 3762671.717 217.93
   LOCATION L0013261     VOLUME   440293.233 3762668.652 217.93
   LOCATION L0013262     VOLUME   440281.631 3762665.587 218.24
   LOCATION L0013263     VOLUME   440279.557 3762675.021 218.42
   LOCATION L0013264     VOLUME   440279.439 3762687.020 218.55
   LOCATION L0013265     VOLUME   440279.322 3762699.020 218.68
   LOCATION L0013266     VOLUME   440279.204 3762711.019 218.76
   LOCATION L0013267     VOLUME   440279.086 3762723.018 218.84
   LOCATION L0013268     VOLUME   440278.969 3762735.018 218.98
   LOCATION L0013269     VOLUME   440278.851 3762747.017 219.19
   LOCATION L0013270     VOLUME   440278.734 3762759.017 219.40
   LOCATION L0013271     VOLUME   440278.616 3762771.016 219.56
   LOCATION L0013272     VOLUME   440278.498 3762783.016 219.72
** End of LINE VOLUME Source ID = SLINE12
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
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** DESCRSRC Onsite PA4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.124120735
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.284, 3762525.123, 215.59, 3.11, 5.58
** 439990.794, 3762536.975, 215.91, 3.11, 5.58
** 440357.234, 3762635.746, 218.25, 3.11, 5.58
** 440370.074, 3762637.721, 218.37, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0013273     VOLUME   439917.218 3762526.007 215.59
   LOCATION L0013274     VOLUME   439929.087 3762527.777 215.53
   LOCATION L0013275     VOLUME   439940.956 3762529.546 215.51
   LOCATION L0013276     VOLUME   439952.825 3762531.315 215.54
   LOCATION L0013277     VOLUME   439964.694 3762533.084 215.59
   LOCATION L0013278     VOLUME   439976.563 3762534.854 215.69
   LOCATION L0013279     VOLUME   439988.432 3762536.623 215.81
   LOCATION L0013280     VOLUME   440000.074 3762539.476 216.04
   LOCATION L0013281     VOLUME   440011.661 3762542.599 216.25
   LOCATION L0013282     VOLUME   440023.247 3762545.723 216.58
   LOCATION L0013283     VOLUME   440034.834 3762548.846 216.94
   LOCATION L0013284     VOLUME   440046.420 3762551.969 217.02
   LOCATION L0013285     VOLUME   440058.007 3762555.092 216.99
   LOCATION L0013286     VOLUME   440069.593 3762558.215 216.92
   LOCATION L0013287     VOLUME   440081.180 3762561.338 216.81
   LOCATION L0013288     VOLUME   440092.766 3762564.461 216.69
   LOCATION L0013289     VOLUME   440104.353 3762567.584 216.56
   LOCATION L0013290     VOLUME   440115.939 3762570.707 216.42
   LOCATION L0013291     VOLUME   440127.526 3762573.830 216.46
   LOCATION L0013292     VOLUME   440139.112 3762576.953 216.50
   LOCATION L0013293     VOLUME   440150.699 3762580.076 216.74
   LOCATION L0013294     VOLUME   440162.285 3762583.199 217.01
   LOCATION L0013295     VOLUME   440173.871 3762586.322 217.18
   LOCATION L0013296     VOLUME   440185.458 3762589.445 217.33
   LOCATION L0013297     VOLUME   440197.044 3762592.568 217.49
   LOCATION L0013298     VOLUME   440208.631 3762595.691 217.59
   LOCATION L0013299     VOLUME   440220.217 3762598.814 217.64
   LOCATION L0013300     VOLUME   440231.804 3762601.937 217.59
   LOCATION L0013301     VOLUME   440243.390 3762605.060 217.54
   LOCATION L0013302     VOLUME   440254.977 3762608.183 217.43
   LOCATION L0013303     VOLUME   440266.563 3762611.306 217.33
   LOCATION L0013304     VOLUME   440278.150 3762614.429 217.25
   LOCATION L0013305     VOLUME   440289.736 3762617.552 217.17
   LOCATION L0013306     VOLUME   440301.323 3762620.676 217.21
   LOCATION L0013307     VOLUME   440312.909 3762623.799 217.40
   LOCATION L0013308     VOLUME   440324.496 3762626.922 217.61
   LOCATION L0013309     VOLUME   440336.082 3762630.045 217.91
   LOCATION L0013310     VOLUME   440347.669 3762633.168 218.20
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   LOCATION L0013311     VOLUME   440359.303 3762636.064 218.29
** End of LINE VOLUME Source ID = SLINE39
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Onsite Building 8
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.032493438
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440370.568, 3762567.100, 217.52, 3.11, 5.58
** 440275.748, 3762564.137, 215.57, 3.11, 5.58
** 440248.092, 3762555.742, 215.39, 3.11, 5.58
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   LOCATION L0013312     VOLUME   440364.571 3762566.913 217.25
   LOCATION L0013313     VOLUME   440352.577 3762566.538 216.81
   LOCATION L0013314     VOLUME   440340.582 3762566.163 216.37
   LOCATION L0013315     VOLUME   440328.588 3762565.788 215.92
   LOCATION L0013316     VOLUME   440316.594 3762565.414 215.63
   LOCATION L0013317     VOLUME   440304.600 3762565.039 215.60
   LOCATION L0013318     VOLUME   440292.606 3762564.664 215.58
   LOCATION L0013319     VOLUME   440280.612 3762564.289 215.60
   LOCATION L0013320     VOLUME   440268.922 3762562.065 215.51
   LOCATION L0013321     VOLUME   440257.439 3762558.579 215.52
** End of LINE VOLUME Source ID = SLINE13
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Onsite Building 9
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057847769
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.778, 3762403.635, 214.16, 3.11, 5.58
** 440009.067, 3762407.585, 215.02, 3.11, 5.58
** 440010.055, 3762416.969, 215.13, 3.11, 5.58
** 440123.641, 3762419.932, 214.99, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013322     VOLUME   439917.773 3762403.878 214.06
   LOCATION L0013323     VOLUME   439929.763 3762404.365 213.82
   LOCATION L0013324     VOLUME   439941.753 3762404.852 213.63
   LOCATION L0013325     VOLUME   439953.743 3762405.339 213.47
   LOCATION L0013326     VOLUME   439965.733 3762405.826 213.51
   LOCATION L0013327     VOLUME   439977.723 3762406.313 213.84
   LOCATION L0013328     VOLUME   439989.714 3762406.800 214.20
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   LOCATION L0013329     VOLUME   440001.704 3762407.286 214.68
   LOCATION L0013330     VOLUME   440009.552 3762412.191 215.01
   LOCATION L0013331     VOLUME   440017.248 3762417.156 215.19
   LOCATION L0013332     VOLUME   440029.244 3762417.469 215.29
   LOCATION L0013333     VOLUME   440041.240 3762417.782 215.34
   LOCATION L0013334     VOLUME   440053.236 3762418.095 215.22
   LOCATION L0013335     VOLUME   440065.232 3762418.408 215.11
   LOCATION L0013336     VOLUME   440077.227 3762418.721 215.03
   LOCATION L0013337     VOLUME   440089.223 3762419.034 214.95
   LOCATION L0013338     VOLUME   440101.219 3762419.347 214.97
   LOCATION L0013339     VOLUME   440113.215 3762419.660 214.99
** End of LINE VOLUME Source ID = SLINE14
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC Onsite Building 10
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057454068
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439910.790, 3762403.635, 214.16, 3.11, 5.58
** 440002.647, 3762408.573, 214.95, 3.11, 5.58
** 440012.524, 3762396.227, 214.97, 3.11, 5.58
** 440123.641, 3762393.758, 214.57, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013340     VOLUME   439916.781 3762403.957 214.08
   LOCATION L0013341     VOLUME   439928.764 3762404.601 213.85
   LOCATION L0013342     VOLUME   439940.747 3762405.245 213.65
   LOCATION L0013343     VOLUME   439952.730 3762405.889 213.49
   LOCATION L0013344     VOLUME   439964.712 3762406.534 213.50
   LOCATION L0013345     VOLUME   439976.695 3762407.178 213.83
   LOCATION L0013346     VOLUME   439988.678 3762407.822 214.18
   LOCATION L0013347     VOLUME   440000.660 3762408.466 214.65
   LOCATION L0013348     VOLUME   440008.900 3762400.756 214.91
   LOCATION L0013349     VOLUME   440018.722 3762396.089 215.05
   LOCATION L0013350     VOLUME   440030.719 3762395.823 215.09
   LOCATION L0013351     VOLUME   440042.716 3762395.556 215.05
   LOCATION L0013352     VOLUME   440054.713 3762395.289 214.89
   LOCATION L0013353     VOLUME   440066.710 3762395.023 214.76
   LOCATION L0013354     VOLUME   440078.707 3762394.756 214.71
   LOCATION L0013355     VOLUME   440090.704 3762394.490 214.67
   LOCATION L0013356     VOLUME   440102.701 3762394.223 214.68
   LOCATION L0013357     VOLUME   440114.698 3762393.956 214.69
** End of LINE VOLUME Source ID = SLINE15
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Onsite Building 11
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** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.059317585
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.308, 3762405.338, 214.18, 3.11, 5.58
** 440007.437, 3762407.437, 215.01, 3.11, 5.58
** 440007.017, 3762503.146, 215.85, 3.11, 5.58
** 439978.892, 3762483.837, 214.97, 3.11, 5.58
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   LOCATION L0013358     VOLUME   439917.306 3762405.469 214.09
   LOCATION L0013359     VOLUME   439929.304 3762405.731 213.85
   LOCATION L0013360     VOLUME   439941.301 3762405.993 213.66
   LOCATION L0013361     VOLUME   439953.298 3762406.255 213.49
   LOCATION L0013362     VOLUME   439965.295 3762406.517 213.51
   LOCATION L0013363     VOLUME   439977.292 3762406.779 213.83
   LOCATION L0013364     VOLUME   439989.289 3762407.041 214.19
   LOCATION L0013365     VOLUME   440001.286 3762407.303 214.66
   LOCATION L0013366     VOLUME   440007.411 3762413.286 214.94
   LOCATION L0013367     VOLUME   440007.359 3762425.285 215.02
   LOCATION L0013368     VOLUME   440007.306 3762437.285 215.03
   LOCATION L0013369     VOLUME   440007.253 3762449.285 215.03
   LOCATION L0013370     VOLUME   440007.201 3762461.285 215.08
   LOCATION L0013371     VOLUME   440007.148 3762473.285 215.17
   LOCATION L0013372     VOLUME   440007.095 3762485.285 215.26
   LOCATION L0013373     VOLUME   440007.043 3762497.285 215.53
   LOCATION L0013374     VOLUME   440001.957 3762499.672 215.49
   LOCATION L0013375     VOLUME   439992.064 3762492.880 215.19
   LOCATION L0013376     VOLUME   439982.171 3762486.088 214.99
** End of LINE VOLUME Source ID = SLINE16
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Onsite Building 12
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.051417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.728, 3762405.338, 214.18, 3.11, 5.58
** 440004.918, 3762406.598, 214.98, 3.11, 5.58
** 440007.437, 3762332.297, 213.67, 3.11, 5.58
** 439979.732, 3762326.420, 213.41, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013377     VOLUME   439917.727 3762405.420 214.08
   LOCATION L0013378     VOLUME   439929.726 3762405.582 213.84
   LOCATION L0013379     VOLUME   439941.725 3762405.744 213.65
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   LOCATION L0013380     VOLUME   439953.724 3762405.906 213.48
   LOCATION L0013381     VOLUME   439965.723 3762406.068 213.51
   LOCATION L0013382     VOLUME   439977.722 3762406.230 213.83
   LOCATION L0013383     VOLUME   439989.721 3762406.392 214.19
   LOCATION L0013384     VOLUME   440001.719 3762406.555 214.67
   LOCATION L0013385     VOLUME   440005.216 3762397.802 214.73
   LOCATION L0013386     VOLUME   440005.623 3762385.809 214.57
   LOCATION L0013387     VOLUME   440006.029 3762373.816 214.34
   LOCATION L0013388     VOLUME   440006.436 3762361.822 214.10
   LOCATION L0013389     VOLUME   440006.842 3762349.829 213.93
   LOCATION L0013390     VOLUME   440007.249 3762337.836 213.75
   LOCATION L0013391     VOLUME   440001.119 3762330.957 213.59
   LOCATION L0013392     VOLUME   439989.381 3762328.467 213.46
** End of LINE VOLUME Source ID = SLINE17
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Onsite Building 13
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.045616798
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439912.567, 3762260.096, 212.15, 3.11, 5.58
** 440086.355, 3762258.417, 213.09, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013393     VOLUME   439918.567 3762260.038 212.19
   LOCATION L0013394     VOLUME   439930.566 3762259.922 212.36
   LOCATION L0013395     VOLUME   439942.566 3762259.806 212.39
   LOCATION L0013396     VOLUME   439954.565 3762259.690 212.35
   LOCATION L0013397     VOLUME   439966.565 3762259.574 212.40
   LOCATION L0013398     VOLUME   439978.564 3762259.458 212.53
   LOCATION L0013399     VOLUME   439990.564 3762259.342 212.64
   LOCATION L0013400     VOLUME   440002.563 3762259.226 212.73
   LOCATION L0013401     VOLUME   440014.562 3762259.110 212.82
   LOCATION L0013402     VOLUME   440026.562 3762258.994 212.90
   LOCATION L0013403     VOLUME   440038.561 3762258.878 212.97
   LOCATION L0013404     VOLUME   440050.561 3762258.762 213.01
   LOCATION L0013405     VOLUME   440062.560 3762258.647 213.05
   LOCATION L0013406     VOLUME   440074.560 3762258.531 213.05
** End of LINE VOLUME Source ID = SLINE18
   LOCATION PAREA1       AREAPOLY   439975.943  3762818.332      219.590
** DESCRSRC Generator PA 1
   LOCATION PAREA2       AREAPOLY   439957.487  3762492.276      214.950
** DESCRSRC Generator PA 2
   LOCATION PAREA3       AREAPOLY   439958.855  3762265.335      212.460
** DESCRSRC Generator PA 3A
** Source Parameters **
** LINE VOLUME Source ID = SLINE26
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   SRCPARAM L0011959     0.0110136      3.11      6.98      2.89
   SRCPARAM L0011960     0.0110136      3.11      6.98      2.89
   SRCPARAM L0011961     0.0110136      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0011962     0.0110138667      3.11      6.98      2.89
   SRCPARAM L0011963     0.0110138667      3.11      6.98      2.89
   SRCPARAM L0011964     0.0110138667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0011953     0.0110133      3.11      6.98      2.89
   SRCPARAM L0011954     0.0110133      3.11      6.98      2.89
   SRCPARAM L0011955     0.0110133      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0011965     0.0110142333      3.11      6.98      2.89
   SRCPARAM L0011966     0.0110142333      3.11      6.98      2.89
   SRCPARAM L0011967     0.0110142333      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
   SRCPARAM L0011968     0.0377183      3.11      6.98      2.89
   SRCPARAM L0011969     0.0377183      3.11      6.98      2.89
   SRCPARAM L0011970     0.0377183      3.11      6.98      2.89
   SRCPARAM L0011971     0.0377183      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0011972     0.03678364      3.11      6.98      2.89
   SRCPARAM L0011973     0.03678364      3.11      6.98      2.89
   SRCPARAM L0011974     0.03678364      3.11      6.98      2.89
   SRCPARAM L0011975     0.03678364      3.11      6.98      2.89
   SRCPARAM L0011976     0.03678364      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0011977     0.01652065      3.11      6.98      2.89
   SRCPARAM L0011978     0.01652065      3.11      6.98      2.89
   SRCPARAM L0011979     0.01652065      3.11      6.98      2.89
   SRCPARAM L0011980     0.01652065      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0011981     0.0377185      3.11      6.98      2.89
   SRCPARAM L0011982     0.0377185      3.11      6.98      2.89
   SRCPARAM L0011983     0.0377185      3.11      6.98      2.89
   SRCPARAM L0011984     0.0377185      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0011985     0.0301752      3.11      6.98      2.89
   SRCPARAM L0011986     0.0301752      3.11      6.98      2.89
   SRCPARAM L0011987     0.0301752      3.11      6.98      2.89
   SRCPARAM L0011988     0.0301752      3.11      6.98      2.89
   SRCPARAM L0011989     0.0301752      3.11      6.98      2.89
** ------------------------------------------------------------------
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** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0011990     0.0066095      3.11      6.98      2.89
   SRCPARAM L0011991     0.0066095      3.11      6.98      2.89
   SRCPARAM L0011992     0.0066095      3.11      6.98      2.89
   SRCPARAM L0011993     0.0066095      3.11      6.98      2.89
   SRCPARAM L0011994     0.0066095      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0011995     0.0165191      0.52      6.98      0.48
   SRCPARAM L0011996     0.0165191      0.52      6.98      0.48
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0011997     0.01651885      3.11      6.98      2.89
   SRCPARAM L0011998     0.01651885      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0011999     0.01321754      3.11      6.98      2.89
   SRCPARAM L0012000     0.01321754      3.11      6.98      2.89
   SRCPARAM L0012001     0.01321754      3.11      6.98      2.89
   SRCPARAM L0012002     0.01321754      3.11      6.98      2.89
   SRCPARAM L0012003     0.01321754      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE19
   SRCPARAM L0012462     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012463     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012464     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012465     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012466     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012467     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012468     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012469     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012470     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012471     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012472     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012473     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012474     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012475     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012476     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012477     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012478     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012479     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012480     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012481     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012482     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012483     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012484     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012485     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012486     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012487     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012488     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012489     0.0020130548      3.11      6.05      2.89
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   SRCPARAM L0012490     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012491     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012492     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012493     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012494     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012495     0.0020130548      3.11      6.05      2.89
   SRCPARAM L0012496     0.0020130548      3.11      6.05      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE20
   SRCPARAM L0012532     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012533     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012534     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012535     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012536     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012537     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012538     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012539     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012540     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012541     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012542     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012543     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012544     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012545     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012546     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012547     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012548     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012549     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012550     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012551     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012552     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012553     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012554     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012555     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012556     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012557     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012558     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012559     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012560     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012561     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012562     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012563     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012564     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012565     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012566     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012567     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012568     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012569     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012570     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012571     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012572     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012573     0.0017013325      3.11      5.58      2.89
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   SRCPARAM L0012574     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012575     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012576     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012577     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012578     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012579     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012580     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012581     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012582     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012583     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012584     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012585     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012586     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012587     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012588     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012589     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012590     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012591     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012592     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012593     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012594     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012595     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012596     0.0017013325      3.11      5.58      2.89
   SRCPARAM L0012597     0.0017013325      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE24
   SRCPARAM L0012724     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012725     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012726     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012727     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012728     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012729     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012730     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012731     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012732     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012733     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012734     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012735     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012736     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012737     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012738     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012739     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012740     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012741     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012742     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012743     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012744     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012745     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012746     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012747     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012748     0.0084821829      3.11     12.56      2.89
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   SRCPARAM L0012749     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012750     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012751     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012752     0.0084821829      3.11     12.56      2.89
   SRCPARAM L0012753     0.0084821829      3.11     12.56      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE21
   SRCPARAM L0012598     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012599     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012600     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012601     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012602     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012603     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012604     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012605     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012606     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012607     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012608     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012609     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012610     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012611     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012612     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012613     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012614     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012615     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012616     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012617     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012618     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012619     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012620     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012621     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012622     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012623     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012624     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012625     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012626     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012627     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012628     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012629     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012630     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012631     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012632     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012633     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012634     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012635     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012636     0.0016826185      3.11      5.58      2.89
   SRCPARAM L0012637     0.0016826185      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE22
   SRCPARAM L0012638     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012639     0.0017086603      3.11      5.58      2.89
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SRCPARAM L0012640     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012641     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012642     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012643     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012644     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012645     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012646     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012647     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012648     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012649     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012650     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012651     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012652     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012653     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012654     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012655     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012656     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012657     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012658     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012659     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012660     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012661     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012662     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012663     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012664     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012665     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012666     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012667     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012668     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012669     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012670     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012671     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012672     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012673     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012674     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012675     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012676     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012677     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012678     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012679     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012680     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012681     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012682     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012683     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012684     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012685     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012686     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012687     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012688     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012689     0.0017086603      3.11      5.58      2.89
SRCPARAM L0012690     0.0017086603      3.11      5.58      2.89
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   SRCPARAM L0012691     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012692     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012693     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012694     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012695     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012696     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012697     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012698     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012699     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012700     0.0017086603      3.11      5.58      2.89
   SRCPARAM L0012701     0.0017086603      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE23
   SRCPARAM L0012702     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012703     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012704     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012705     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012706     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012707     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012708     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012709     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012710     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012711     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012712     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012713     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012714     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012715     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012716     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012717     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012718     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012719     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012720     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012721     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012722     0.0086256785      3.11     12.56      2.89
   SRCPARAM L0012723     0.0086256785      3.11     12.56      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE25
   SRCPARAM L0012754     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012755     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012756     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012757     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012758     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012759     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012760     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012761     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012762     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012763     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012764     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012765     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012766     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012767     0.0085376402      3.11     12.56      2.89
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   SRCPARAM L0012768     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012769     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012770     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012771     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012772     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012773     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012774     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012775     0.0085376402      3.11     12.56      2.89
   SRCPARAM L0012776     0.0085376402      3.11     12.56      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0013092     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013093     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013094     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013095     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013096     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013097     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013098     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013099     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013100     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013101     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013102     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013103     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013104     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013105     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013106     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013107     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013108     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013109     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013110     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013111     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013112     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013113     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013114     0.003105101      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0013115     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013116     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013117     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013118     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013119     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013120     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013121     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013122     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013123     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013124     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013125     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013126     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013127     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013128     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013129     0.0031076116      3.11      5.58      2.89
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   SRCPARAM L0013130     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013131     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013132     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013133     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013134     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013135     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013136     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013137     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013138     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013139     0.0031076116      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0013140     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013141     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013142     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013143     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013144     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013145     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013146     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013147     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013148     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013149     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013150     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013151     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013152     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013153     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013154     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013155     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013156     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013157     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013158     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013159     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013160     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013161     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013162     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013163     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013164     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013165     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013166     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013167     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013168     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013169     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013170     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013171     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013172     0.0031663088      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0013173     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013174     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013175     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013176     0.0032545932      3.11      5.58      2.89
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   SRCPARAM L0013177     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013178     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013179     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013180     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013181     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013182     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013183     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013184     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013185     0.0032545932      3.11      5.58      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0013186     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013187     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013188     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013189     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013190     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013191     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013192     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013193     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013194     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013195     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013196     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013197     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013198     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013199     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013200     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013201     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013202     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013203     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013204     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013205     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013206     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013207     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013208     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013209     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013210     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013211     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013212     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013213     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013214     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013215     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013216     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013217     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013218     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013219     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013220     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013221     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013222     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013223     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013224     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013225     0.0031415716      3.11      5.58      2.89
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   SRCPARAM L0013226     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013227     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013228     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013229     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013230     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013231     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013232     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013233     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013234     0.0031415716      3.11      5.58      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0013235     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013236     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013237     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013238     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013239     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013240     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013241     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013242     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013243     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013244     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013245     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013246     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013247     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013248     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013249     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013250     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013251     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013252     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013253     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013254     0.0032007874      0.52      5.58      0.48
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0013255     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013256     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013257     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013258     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013259     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013260     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013261     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013262     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013263     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013264     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013265     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013266     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013267     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013268     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013269     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013270     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013271     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013272     0.0032152231      3.11      5.58      2.89
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** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE39
   SRCPARAM L0013273     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013274     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013275     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013276     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013277     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013278     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013279     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013280     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013281     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013282     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013283     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013284     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013285     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013286     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013287     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013288     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013289     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013290     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013291     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013292     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013293     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013294     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013295     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013296     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013297     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013298     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013299     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013300     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013301     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013302     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013303     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013304     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013305     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013306     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013307     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013308     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013309     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013310     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013311     0.0031825829      3.11      5.58      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0013312     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013313     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013314     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013315     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013316     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013317     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013318     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013319     0.0032493438      3.11      5.58      2.89
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   SRCPARAM L0013320     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013321     0.0032493438      3.11      5.58      2.89
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** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0013322     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013323     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013324     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013325     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013326     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013327     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013328     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013329     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013330     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013331     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013332     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013333     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013334     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013335     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013336     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013337     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013338     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013339     0.0032137649      3.11      5.58      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0013340     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013341     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013342     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013343     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013344     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013345     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013346     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013347     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013348     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013349     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013350     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013351     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013352     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013353     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013354     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013355     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013356     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013357     0.0031918927      3.11      5.58      2.89
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** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0013358     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013359     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013360     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013361     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013362     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013363     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013364     0.0031219782      3.11      5.58      2.89
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   SRCPARAM L0013365     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013366     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013367     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013368     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013369     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013370     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013371     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013372     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013373     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013374     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013375     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013376     0.0031219782      3.11      5.58      2.89
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** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0013377     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013378     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013379     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013380     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013381     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013382     0.0032135827      3.11      5.58      2.89
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   SRCPARAM L0013384     0.0032135827      3.11      5.58      2.89
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   SRCPARAM L0013386     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013387     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013388     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013389     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013390     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013391     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013392     0.0032135827      3.11      5.58      2.89
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** LINE VOLUME Source ID = SLINE18
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   SRCPARAM L0013394     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013395     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013396     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013397     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013398     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013399     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013400     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013401     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013402     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013403     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013404     0.0032583427      3.11      5.58      2.89
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   SRCPARAM L0013406     0.0032583427      3.11      5.58      2.89
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   AREAVERT PAREA1       439975.943 3762818.332 440317.038 3762818.332
   AREAVERT PAREA1       440314.304 3762676.153 439968.424 3762587.974
   AREAVERT PAREA1       439969.108 3762819.700
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   SRCPARAM PAREA2       8.4798E-06     5.000         9
   AREAVERT PAREA2       439957.487 3762492.276 439958.855 3762320.020
   AREAVERT PAREA2       440038.147 3762320.020 440037.464 3762357.616
   AREAVERT PAREA2       440154.352 3762357.616 440146.833 3762481.339
   AREAVERT PAREA2       440359.419 3762482.023 440353.267 3762577.721
   AREAVERT PAREA2       440271.240 3762571.569
   SRCPARAM PAREA3       4.0539E-06     5.000         5
   AREAVERT PAREA3       439958.855 3762265.335 439958.855 3762181.258
   AREAVERT PAREA3       440165.289 3762180.574 440159.820 3762266.703
   AREAVERT PAREA3       439956.804 3762268.070
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
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   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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SRCGROUP P1OFFSIT L0012551 L0012552 L0012553 L0012554 L0012555 L0012556
SRCGROUP P1OFFSIT L0012557 L0012558 L0012559 L0012560 L0012561 L0012562
SRCGROUP P1OFFSIT L0012563 L0012564 L0012565 L0012566 L0012567 L0012568
SRCGROUP P1OFFSIT L0012569 L0012570 L0012571 L0012572 L0012573 L0012574
SRCGROUP P1OFFSIT L0012575 L0012576 L0012577 L0012578 L0012579 L0012580
SRCGROUP P1OFFSIT L0012581 L0012582 L0012583 L0012584 L0012585 L0012586
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   SRCGROUP P1OFFSIT L0012587 L0012588 L0012589 L0012590 L0012591 L0012592
   SRCGROUP P1OFFSIT L0012593 L0012594 L0012595 L0012596 L0012597 L0012724
   SRCGROUP P1OFFSIT L0012725 L0012726 L0012727 L0012728 L0012729 L0012730
   SRCGROUP P1OFFSIT L0012731 L0012732 L0012733 L0012734 L0012735 L0012736
   SRCGROUP P1OFFSIT L0012737 L0012738 L0012739 L0012740 L0012741 L0012742
   SRCGROUP P1OFFSIT L0012743 L0012744 L0012745 L0012746 L0012747 L0012748
   SRCGROUP P1OFFSIT L0012749 L0012750 L0012751 L0012752 L0012753 L0012598
   SRCGROUP P1OFFSIT L0012599 L0012600 L0012601 L0012602 L0012603 L0012604
   SRCGROUP P1OFFSIT L0012605 L0012606 L0012607 L0012608 L0012609 L0012610
   SRCGROUP P1OFFSIT L0012611 L0012612 L0012613 L0012614 L0012615 L0012616
   SRCGROUP P1OFFSIT L0012617 L0012618 L0012619 L0012620 L0012621 L0012622
   SRCGROUP P1OFFSIT L0012623 L0012624 L0012625 L0012626 L0012627 L0012628
   SRCGROUP P1OFFSIT L0012629 L0012630 L0012631 L0012632 L0012633 L0012634
   SRCGROUP P1OFFSIT L0012635 L0012636 L0012637 L0012638 L0012639 L0012640
   SRCGROUP P1OFFSIT L0012641 L0012642 L0012643 L0012644 L0012645 L0012646
   SRCGROUP P1OFFSIT L0012647 L0012648 L0012649 L0012650 L0012651 L0012652
   SRCGROUP P1OFFSIT L0012653 L0012654 L0012655 L0012656 L0012657 L0012658
   SRCGROUP P1OFFSIT L0012659 L0012660 L0012661 L0012662 L0012663 L0012664
   SRCGROUP P1OFFSIT L0012665 L0012666 L0012667 L0012668 L0012669 L0012670
   SRCGROUP P1OFFSIT L0012671 L0012672 L0012673 L0012674 L0012675 L0012676
   SRCGROUP P1OFFSIT L0012677 L0012678 L0012679 L0012680 L0012681 L0012682
   SRCGROUP P1OFFSIT L0012683 L0012684 L0012685 L0012686 L0012687 L0012688
   SRCGROUP P1OFFSIT L0012689 L0012690 L0012691 L0012692 L0012693 L0012694
   SRCGROUP P1OFFSIT L0012695 L0012696 L0012697 L0012698 L0012699 L0012700
   SRCGROUP P1OFFSIT L0012701 L0012702 L0012703 L0012704 L0012705 L0012706
   SRCGROUP P1OFFSIT L0012707 L0012708 L0012709 L0012710 L0012711 L0012712
   SRCGROUP P1OFFSIT L0012713 L0012714 L0012715 L0012716 L0012717 L0012718
   SRCGROUP P1OFFSIT L0012719 L0012720 L0012721 L0012722 L0012723 L0012754
   SRCGROUP P1OFFSIT L0012755 L0012756 L0012757 L0012758 L0012759 L0012760
   SRCGROUP P1OFFSIT L0012761 L0012762 L0012763 L0012764 L0012765 L0012766
   SRCGROUP P1OFFSIT L0012767 L0012768 L0012769 L0012770 L0012771 L0012772
   SRCGROUP P1OFFSIT L0012773 L0012774 L0012775 L0012776
   SRCGROUP P1GEN    PAREA1 PAREA2 PAREA3
   SRCGROUP ALL
SO FINISHED
**
****************************************
** AERMOD Receptor Pathway
****************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_Phase1Ops.rou
RE FINISHED
**
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
```

```
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_PHASE1OPS.AD\01H1GALL.PLT 31
   PLOTFILE 1 P1ONRUN 1ST ONTARIOEUCLID_PHASE1OPS.AD\01H1G001.PLT 32
   PLOTFILE 1 P1ONIDLE 1ST ONTARIOEUCLID_PHASE1OPS.AD\01H1G002.PLT 33
   PLOTFILE 1 P1OFFSIT 1ST ONTARIOEUCLID_PHASE1OPS.AD\01H1G003.PLT 34
   PLOTFILE 1 P1GEN 1ST ONTARIOEUCLID_PHASE1OPS.AD\01H1G004.PLT 35
   PLOTFILE PERIOD ALL ONTARIOEUCLID_PHASE1OPS.AD\PE00GALL.PLT 36
   PLOTFILE PERIOD P1ONRUN ONTARIOEUCLID_PHASE1OPS.AD\PE00G001.PLT 37
   PLOTFILE PERIOD P1ONIDLE ONTARIOEUCLID_PHASE1OPS.AD\PE00G002.PLT 38
   PLOTFILE PERIOD P1OFFSIT ONTARIOEUCLID_PHASE1OPS.AD\PE00G003.PLT 39
   PLOTFILE PERIOD P1GEN ONTARIOEUCLID_PHASE1OPS.AD\PE00G004.PLT 40
   SUMMFILE OntarioEuclid_Phase1Ops.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    2147       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    2147       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 *********************************
 *** SETUP Finishes Successfully ***
```

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 ***********************************

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                           ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       22:47:09

                                     PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   646 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:    646 Source(s);       5 Source Group(s); and     528
Receptor(s)

                with:      0 POINT(s), including
```

```
                    0 POINTCAP(s) and      0 POINTHOR(s)
               and:   643 VOLUME source(s)
               and:     3 AREA type source(s)
               and:     0 LINE source(s)
               and:     0 RLINE/RLINEXT source(s)
               and:     0 OPENPIT source(s)
               and:     0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   198.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      5.0 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   OntarioEuclid_Phase1Ops.err

 **File for Summary of Results:   OntarioEuclid_Phase1Ops.sum

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                              ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                             ***        22:47:09

                                        PAGE   2
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0011959	0	0.11014E-01	439987.2	3762795.0	219.4	3.11	6.98	2.89	YES
L0011960	0	0.11014E-01	440002.2	3762795.0	219.5	3.11	6.98	2.89	YES
L0011961	0	0.11014E-01	440017.2	3762795.0	219.5	3.11	6.98	2.89	YES
L0011962	0	0.11014E-01	439985.4	3762735.2	218.8	3.11	6.98	2.89	YES
L0011963	0	0.11014E-01	440000.4	3762735.2	218.8	3.11	6.98	2.89	YES
L0011964	0	0.11014E-01	440015.4	3762735.2	218.9	3.11	6.98	2.89	YES
L0011953	0	0.11013E-01	439995.4	3762625.5	217.1	3.11	6.98	2.89	YES
L0011954	0	0.11013E-01	439995.6	3762610.5	217.0	3.11	6.98	2.89	YES
L0011955	0	0.11013E-01	439995.8	3762595.5	216.7	3.11	6.98	2.89	YES
L0011965	0	0.11014E-01	440083.0	3762802.0	219.5	3.11	6.98	2.89	YES
L0011966	0	0.11014E-01	440098.0	3762802.0	219.5	3.11	6.98	2.89	YES
L0011967	0	0.11014E-01	440113.0	3762802.0	219.5	3.11	6.98	2.89	YES
L0011968	0	0.37718E-01	440078.4	3762709.7	218.6	3.11	6.98	2.89	YES
L0011969	0	0.37718E-01	440078.4	3762694.7	218.4	3.11	6.98	2.89	YES
L0011970	0	0.37718E-01	440078.4	3762679.7	218.2	3.11	6.98	2.89	YES
L0011971	0	0.37718E-01	440078.4	3762664.7	218.0	3.11	6.98	2.89	YES
L0011972	0	0.36784E-01	440237.6	3762780.5	219.9	3.11	6.98	2.89	YES
L0011973	0	0.36784E-01	440237.8	3762765.5	219.8	3.11	6.98	2.89	YES
L0011974	0	0.36784E-01	440238.0	3762750.5	219.6	3.11	6.98	2.89	YES

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 L0011975         0   0.36784E-01  440238.3 3762735.5   219.4     3.11     6.98
2.89     YES
 L0011976         0   0.36784E-01  440238.5 3762720.5   219.3     3.11     6.98
2.89     YES
 L0011977         0   0.16521E-01  440296.7 3762787.5   219.8     3.11     6.98
2.89     YES
 L0011978         0   0.16521E-01  440296.7 3762772.5   219.3     3.11     6.98
2.89     YES
 L0011979         0   0.16521E-01  440296.7 3762757.5   218.9     3.11     6.98
2.89     YES
 L0011980         0   0.16521E-01  440296.7 3762742.5   218.7     3.11     6.98
2.89     YES
 L0011981         0   0.37719E-01  440254.3 3762543.6   214.6     3.11     6.98
2.89     YES
 L0011982         0   0.37719E-01  440269.3 3762543.6   214.3     3.11     6.98
2.89     YES
 L0011983         0   0.37719E-01  440284.3 3762543.6   214.4     3.11     6.98
2.89     YES
 L0011984         0   0.37719E-01  440299.3 3762543.6   214.4     3.11     6.98
2.89     YES
 L0011985         0   0.30175E-01  440060.9 3762439.7   215.4     3.11     6.98
2.89     YES
 L0011986         0   0.30175E-01  440075.9 3762439.8   215.3     3.11     6.98
2.89     YES
 L0011987         0   0.30175E-01  440090.9 3762440.0   215.2     3.11     6.98
2.89     YES
 L0011988         0   0.30175E-01  440105.9 3762440.1   215.1     3.11     6.98
2.89     YES
 L0011989         0   0.30175E-01  440120.9 3762440.2   215.1     3.11     6.98
2.89     YES
 L0011990         0   0.66095E-02  440059.2 3762374.7   214.4     3.11     6.98
2.89     YES
 L0011991         0   0.66095E-02  440074.2 3762375.0   214.4     3.11     6.98
2.89     YES
 L0011992         0   0.66095E-02  440089.2 3762375.2   214.4     3.11     6.98
2.89     YES
 L0011993         0   0.66095E-02  440104.2 3762375.5   214.3     3.11     6.98
2.89     YES
 L0011994         0   0.66095E-02  440119.2 3762375.7   214.3     3.11     6.98
2.89     YES
 L0011995         0   0.16519E-01  439974.8 3762482.3   214.9     0.52     6.98
0.48     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:47:09

                                   PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0011996	0	0.16519E-01	439986.0	3762472.3	214.9	0.52	6.98	0.48	YES	
L0011997	0	0.16519E-01	439977.6	3762351.5	213.4	3.11	6.98	2.89	YES	
L0011998	0	0.16519E-01	439987.4	3762340.1	213.5	3.11	6.98	2.89	YES	
L0011999	0	0.13218E-01	440025.5	3762237.6	212.8	3.11	6.98	2.89	YES	
L0012000	0	0.13218E-01	440040.5	3762237.8	212.9	3.11	6.98	2.89	YES	
L0012001	0	0.13218E-01	440055.5	3762237.9	212.9	3.11	6.98	2.89	YES	
L0012002	0	0.13218E-01	440070.5	3762238.0	212.9	3.11	6.98	2.89	YES	
L0012003	0	0.13218E-01	440085.5	3762238.1	212.9	3.11	6.98	2.89	YES	
L0012462	0	0.20131E-02	439917.5	3762880.9	220.4	3.11	6.05	2.89	YES	
L0012463	0	0.20131E-02	439930.5	3762880.9	220.5	3.11	6.05	2.89	YES	
L0012464	0	0.20131E-02	439943.5	3762880.9	220.6	3.11	6.05	2.89	YES	
L0012465	0	0.20131E-02	439956.5	3762880.8	220.6	3.11	6.05	2.89	YES	
L0012466	0	0.20131E-02	439969.5	3762880.8	220.6	3.11	6.05	2.89	YES	
L0012467	0	0.20131E-02	439982.5	3762880.7	220.6	3.11	6.05	2.89	YES	
L0012468	0	0.20131E-02	439995.5	3762880.7	220.6	3.11	6.05	2.89	YES	
L0012469	0	0.20131E-02	440008.5	3762880.7	220.6	3.11	6.05	2.89	YES	
L0012470	0	0.20131E-02	440021.5	3762880.6	220.5	3.11	6.05	2.89	YES	
L0012471	0	0.20131E-02	440034.5	3762880.6	220.5	3.11	6.05	2.89	YES	
L0012472	0	0.20131E-02	440047.5	3762880.5	220.5	3.11	6.05	2.89	YES	
L0012473	0	0.20131E-02	440060.5	3762880.5	220.5	3.11	6.05	2.89	YES	

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 L0012474         0   0.20131E-02  440073.5 3762880.5   220.6     3.11     6.05
2.89     YES
 L0012475         0   0.20131E-02  440086.5 3762880.4   220.7     3.11     6.05
2.89     YES
 L0012476         0   0.20131E-02  440099.5 3762880.4   220.7     3.11     6.05
2.89     YES
 L0012477         0   0.20131E-02  440112.5 3762880.3   220.8     3.11     6.05
2.89     YES
 L0012478         0   0.20131E-02  440125.5 3762880.3   220.8     3.11     6.05
2.89     YES
 L0012479         0   0.20131E-02  440138.5 3762880.2   220.9     3.11     6.05
2.89     YES
 L0012480         0   0.20131E-02  440151.5 3762880.2   220.9     3.11     6.05
2.89     YES
 L0012481         0   0.20131E-02  440164.5 3762880.2   221.0     3.11     6.05
2.89     YES
 L0012482         0   0.20131E-02  440177.5 3762880.1   221.0     3.11     6.05
2.89     YES
 L0012483         0   0.20131E-02  440190.5 3762880.1   221.0     3.11     6.05
2.89     YES
 L0012484         0   0.20131E-02  440203.5 3762880.0   221.0     3.11     6.05
2.89     YES
 L0012485         0   0.20131E-02  440216.5 3762880.0   221.1     3.11     6.05
2.89     YES
 L0012486         0   0.20131E-02  440229.5 3762880.0   221.1     3.11     6.05
2.89     YES
 L0012487         0   0.20131E-02  440242.5 3762879.9   221.1     3.11     6.05
2.89     YES
 L0012488         0   0.20131E-02  440255.5 3762879.9   221.1     3.11     6.05
2.89     YES
 L0012489         0   0.20131E-02  440268.5 3762879.8   221.2     3.11     6.05
2.89     YES
 L0012490         0   0.20131E-02  440281.5 3762879.8   221.2     3.11     6.05
2.89     YES
 L0012491         0   0.20131E-02  440294.5 3762879.8   221.2     3.11     6.05
2.89     YES
 L0012492         0   0.20131E-02  440307.5 3762879.7   221.2     3.11     6.05
2.89     YES
 L0012493         0   0.20131E-02  440320.5 3762879.7   221.2     3.11     6.05
2.89     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0012494	0	0.20131E-02	440333.5	3762879.6	221.2	3.11	6.05	2.89	YES
L0012495	0	0.20131E-02	440346.5	3762879.6	221.2	3.11	6.05	2.89	YES
L0012496	0	0.20131E-02	440359.5	3762879.6	221.1	3.11	6.05	2.89	YES
L0012532	0	0.17013E-02	440371.0	3762866.0	220.8	3.11	5.58	2.89	YES
L0012533	0	0.17013E-02	440371.3	3762854.0	220.6	3.11	5.58	2.89	YES
L0012534	0	0.17013E-02	440371.5	3762842.0	220.4	3.11	5.58	2.89	YES
L0012535	0	0.17013E-02	440371.8	3762830.0	220.3	3.11	5.58	2.89	YES
L0012536	0	0.17013E-02	440372.1	3762818.0	220.2	3.11	5.58	2.89	YES
L0012537	0	0.17013E-02	440372.4	3762806.0	220.0	3.11	5.58	2.89	YES
L0012538	0	0.17013E-02	440372.6	3762794.0	219.9	3.11	5.58	2.89	YES
L0012539	0	0.17013E-02	440372.9	3762782.0	219.8	3.11	5.58	2.89	YES
L0012540	0	0.17013E-02	440373.2	3762770.0	219.6	3.11	5.58	2.89	YES
L0012541	0	0.17013E-02	440373.5	3762758.0	219.5	3.11	5.58	2.89	YES
L0012542	0	0.17013E-02	440373.7	3762746.0	219.4	3.11	5.58	2.89	YES
L0012543	0	0.17013E-02	440374.0	3762734.0	219.2	3.11	5.58	2.89	YES
L0012544	0	0.17013E-02	440374.3	3762722.0	219.1	3.11	5.58	2.89	YES
L0012545	0	0.17013E-02	440374.5	3762710.0	219.0	3.11	5.58	2.89	YES
L0012546	0	0.17013E-02	440374.8	3762698.0	218.8	3.11	5.58	2.89	YES
L0012547	0	0.17013E-02	440375.1	3762686.0	218.7	3.11	5.58	2.89	YES
L0012548	0	0.17013E-02	440375.4	3762674.1	218.7	3.11	5.58	2.89	YES
L0012549	0	0.17013E-02	440375.6	3762662.1	218.6	3.11	5.58	2.89	YES

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 L0012550         0   0.17013E-02  440375.9 3762650.1   218.4     3.11     5.58
2.89     YES
 L0012551         0   0.17013E-02  440376.2 3762638.1   218.3     3.11     5.58
2.89     YES
 L0012552         0   0.17013E-02  440376.5 3762626.1   218.2     3.11     5.58
2.89     YES
 L0012553         0   0.17013E-02  440376.7 3762614.1   218.1     3.11     5.58
2.89     YES
 L0012554         0   0.17013E-02  440377.0 3762602.1   218.0     3.11     5.58
2.89     YES
 L0012555         0   0.17013E-02  440377.3 3762590.1   217.8     3.11     5.58
2.89     YES
 L0012556         0   0.17013E-02  440377.5 3762578.1   217.6     3.11     5.58
2.89     YES
 L0012557         0   0.17013E-02  440377.8 3762566.1   217.4     3.11     5.58
2.89     YES
 L0012558         0   0.17013E-02  440378.1 3762554.1   217.3     3.11     5.58
2.89     YES
 L0012559         0   0.17013E-02  440378.4 3762542.1   217.3     3.11     5.58
2.89     YES
 L0012560         0   0.17013E-02  440378.6 3762530.1   217.4     3.11     5.58
2.89     YES
 L0012561         0   0.17013E-02  440378.9 3762518.1   217.6     3.11     5.58
2.89     YES
 L0012562         0   0.17013E-02  440379.2 3762506.1   217.6     3.11     5.58
2.89     YES
 L0012563         0   0.17013E-02  440379.5 3762494.1   217.5     3.11     5.58
2.89     YES
 L0012564         0   0.17013E-02  440379.7 3762482.1   217.4     3.11     5.58
2.89     YES
 L0012565         0   0.17013E-02  440380.0 3762470.1   216.8     3.11     5.58
2.89     YES
 L0012566         0   0.17013E-02  440380.3 3762458.1   216.2     3.11     5.58
2.89     YES
 L0012567         0   0.17013E-02  440380.5 3762446.1   215.8     3.11     5.58
2.89     YES
 L0012568         0   0.17013E-02  440380.8 3762434.1   215.6     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
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SOURCE ID	PART. SCALAR CATS.	(GRAMS/SEC) VARY BY	X (METERS)	Y (METERS)	ELEV. (METERS)	HEIGHT (METERS)	SY (METERS)	SZ SOURCE (METERS)
L0012569	0	0.17013E-02	440381.1	3762422.1	215.4	3.11	5.58	2.89 YES
L0012570	0	0.17013E-02	440381.4	3762410.1	215.2	3.11	5.58	2.89 YES
L0012571	0	0.17013E-02	440381.6	3762398.1	215.1	3.11	5.58	2.89 YES
L0012572	0	0.17013E-02	440381.9	3762386.1	214.9	3.11	5.58	2.89 YES
L0012573	0	0.17013E-02	440382.2	3762374.1	214.8	3.11	5.58	2.89 YES
L0012574	0	0.17013E-02	440382.5	3762362.1	214.7	3.11	5.58	2.89 YES
L0012575	0	0.17013E-02	440382.7	3762350.1	214.6	3.11	5.58	2.89 YES
L0012576	0	0.17013E-02	440383.0	3762338.1	214.5	3.11	5.58	2.89 YES
L0012577	0	0.17013E-02	440383.3	3762326.1	214.4	3.11	5.58	2.89 YES
L0012578	0	0.17013E-02	440383.5	3762314.1	214.2	3.11	5.58	2.89 YES
L0012579	0	0.17013E-02	440383.8	3762302.1	214.1	3.11	5.58	2.89 YES
L0012580	0	0.17013E-02	440384.1	3762290.2	213.9	3.11	5.58	2.89 YES
L0012581	0	0.17013E-02	440384.4	3762278.2	213.7	3.11	5.58	2.89 YES
L0012582	0	0.17013E-02	440384.6	3762266.2	213.6	3.11	5.58	2.89 YES
L0012583	0	0.17013E-02	440384.9	3762254.2	213.5	3.11	5.58	2.89 YES
L0012584	0	0.17013E-02	440385.2	3762242.2	213.4	3.11	5.58	2.89 YES
L0012585	0	0.17013E-02	440385.5	3762230.2	213.3	3.11	5.58	2.89 YES
L0012586	0	0.17013E-02	440385.7	3762218.2	213.2	3.11	5.58	2.89 YES
L0012587	0	0.17013E-02	440386.0	3762206.2	213.2	3.11	5.58	2.89 YES
L0012588	0	0.17013E-02	440386.3	3762194.2	213.1	3.11	5.58	2.89 YES
L0012589	0	0.17013E-02	440386.5	3762182.2	213.0	3.11	5.58	2.89 YES
L0012590	0	0.17013E-02	440386.8	3762170.2	212.9	3.11	5.58	2.89 YES

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 L0012591         0   0.17013E-02  440387.1 3762158.2   212.7     3.11     5.58
2.89     YES
 L0012592         0   0.17013E-02  440387.4 3762146.2   212.6     3.11     5.58
2.89     YES
 L0012593         0   0.17013E-02  440387.6 3762134.2   212.4     3.11     5.58
2.89     YES
 L0012594         0   0.17013E-02  440387.9 3762122.2   212.1     3.11     5.58
2.89     YES
 L0012595         0   0.17013E-02  440388.2 3762110.2   212.0     3.11     5.58
2.89     YES
 L0012596         0   0.17013E-02  440388.5 3762098.2   211.8     3.11     5.58
2.89     YES
 L0012597         0   0.17013E-02  440388.7 3762086.2   211.7     3.11     5.58
2.89     YES
 L0012724         0   0.84822E-02  439896.8 3762861.2   220.0     3.11    12.56
2.89     YES
 L0012725         0   0.84822E-02  439896.9 3762834.2   219.6     3.11    12.56
2.89     YES
 L0012726         0   0.84822E-02  439897.0 3762807.2   219.2     3.11    12.56
2.89     YES
 L0012727         0   0.84822E-02  439897.1 3762780.2   218.8     3.11    12.56
2.89     YES
 L0012728         0   0.84822E-02  439897.2 3762753.2   218.4     3.11    12.56
2.89     YES
 L0012729         0   0.84822E-02  439897.3 3762726.2   218.1     3.11    12.56
2.89     YES
 L0012730         0   0.84822E-02  439897.4 3762699.2   217.7     3.11    12.56
2.89     YES
 L0012731         0   0.84822E-02  439897.5 3762672.2   217.3     3.11    12.56
2.89     YES
 L0012732         0   0.84822E-02  439897.6 3762645.2   217.0     3.11    12.56
2.89     YES
 L0012733         0   0.84822E-02  439897.7 3762618.2   216.6     3.11    12.56
2.89     YES
 L0012734         0   0.84822E-02  439897.8 3762591.2   216.3     3.11    12.56
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***       04/03/23
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
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ID	CATS.		(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	(METERS)	BY
L0012735	0	0.84822E-02	439897.8	3762564.2	216.0	3.11	12.56	2.89	YES
L0012736	0	0.84822E-02	439897.9	3762537.2	215.7	3.11	12.56	2.89	YES
L0012737	0	0.84822E-02	439898.0	3762510.2	215.4	3.11	12.56	2.89	YES
L0012738	0	0.84822E-02	439898.1	3762483.2	215.1	3.11	12.56	2.89	YES
L0012739	0	0.84822E-02	439898.2	3762456.2	214.8	3.11	12.56	2.89	YES
L0012740	0	0.84822E-02	439898.3	3762429.2	214.4	3.11	12.56	2.89	YES
L0012741	0	0.84822E-02	439898.4	3762402.2	214.1	3.11	12.56	2.89	YES
L0012742	0	0.84822E-02	439898.5	3762375.2	213.7	3.11	12.56	2.89	YES
L0012743	0	0.84822E-02	439898.6	3762348.2	213.3	3.11	12.56	2.89	YES
L0012744	0	0.84822E-02	439898.7	3762321.2	213.0	3.11	12.56	2.89	YES
L0012745	0	0.84822E-02	439898.8	3762294.2	212.5	3.11	12.56	2.89	YES
L0012746	0	0.84822E-02	439898.9	3762267.2	212.1	3.11	12.56	2.89	YES
L0012747	0	0.84822E-02	439899.0	3762240.2	211.6	3.11	12.56	2.89	YES
L0012748	0	0.84822E-02	439899.0	3762213.2	211.3	3.11	12.56	2.89	YES
L0012749	0	0.84822E-02	439899.1	3762186.2	211.0	3.11	12.56	2.89	YES
L0012750	0	0.84822E-02	439899.2	3762159.2	210.7	3.11	12.56	2.89	YES
L0012751	0	0.84822E-02	439899.3	3762132.2	210.5	3.11	12.56	2.89	YES
L0012752	0	0.84822E-02	439899.4	3762105.2	210.3	3.11	12.56	2.89	YES
L0012753	0	0.84822E-02	439899.5	3762078.2	210.1	3.11	12.56	2.89	YES
L0012598	0	0.16826E-02	439919.0	3762074.5	210.2	3.11	5.58	2.89	YES
L0012599	0	0.16826E-02	439931.0	3762074.5	210.2	3.11	5.58	2.89	YES
L0012600	0	0.16826E-02	439943.0	3762074.5	210.2	3.11	5.58	2.89	YES
L0012601	0	0.16826E-02	439955.0	3762074.5	210.2	3.11	5.58	2.89	YES

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 L0012602         0   0.16826E-02  439967.0 3762074.5   210.2     3.11     5.58
2.89     YES
 L0012603         0   0.16826E-02  439979.0 3762074.4   210.2     3.11     5.58
2.89     YES
 L0012604         0   0.16826E-02  439991.0 3762074.4   210.2     3.11     5.58
2.89     YES
 L0012605         0   0.16826E-02  440003.0 3762074.4   210.2     3.11     5.58
2.89     YES
 L0012606         0   0.16826E-02  440015.0 3762074.4   210.2     3.11     5.58
2.89     YES
 L0012607         0   0.16826E-02  440027.0 3762074.4   210.2     3.11     5.58
2.89     YES
 L0012608         0   0.16826E-02  440039.0 3762074.4   210.3     3.11     5.58
2.89     YES
 L0012609         0   0.16826E-02  440051.0 3762074.4   210.3     3.11     5.58
2.89     YES
 L0012610         0   0.16826E-02  440063.0 3762074.4   210.3     3.11     5.58
2.89     YES
 L0012611         0   0.16826E-02  440075.0 3762074.3   210.3     3.11     5.58
2.89     YES
 L0012612         0   0.16826E-02  440087.0 3762074.3   210.4     3.11     5.58
2.89     YES
 L0012613         0   0.16826E-02  440099.0 3762074.3   210.4     3.11     5.58
2.89     YES
 L0012614         0   0.16826E-02  440111.0 3762074.3   210.4     3.11     5.58
2.89     YES
 L0012615         0   0.16826E-02  440123.0 3762074.3   210.4     3.11     5.58
2.89     YES
 L0012616         0   0.16826E-02  440135.0 3762074.3   210.5     3.11     5.58
2.89     YES
 L0012617         0   0.16826E-02  440147.0 3762074.3   210.5     3.11     5.58
2.89     YES
 L0012618         0   0.16826E-02  440159.0 3762074.3   210.5     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0012643   0   0.17087E-02 440459.8 3762074.0   211.5   3.11   5.58
2.89   YES
 L0012644   0   0.17087E-02 440471.8 3762074.0   211.5   3.11   5.58
2.89   YES
 L0012645   0   0.17087E-02 440483.8 3762074.0   211.5   3.11   5.58
2.89   YES
 L0012646   0   0.17087E-02 440495.8 3762074.0   211.5   3.11   5.58
2.89   YES
 L0012647   0   0.17087E-02 440507.8 3762074.1   211.5   3.11   5.58
2.89   YES
 L0012648   0   0.17087E-02 440519.8 3762074.1   211.6   3.11   5.58
2.89   YES
 L0012649   0   0.17087E-02 440531.8 3762074.1   211.6   3.11   5.58
2.89   YES
 L0012650   0   0.17087E-02 440543.8 3762074.1   211.6   3.11   5.58
2.89   YES
 L0012651   0   0.17087E-02 440555.8 3762074.2   211.6   3.11   5.58
2.89   YES
 L0012652   0   0.17087E-02 440567.8 3762074.2   211.6   3.11   5.58
2.89   YES
 L0012653   0   0.17087E-02 440579.8 3762074.2   211.6   3.11   5.58
2.89   YES
 L0012654   0   0.17087E-02 440591.8 3762074.2   211.5   3.11   5.58
2.89   YES
 L0012655   0   0.17087E-02 440603.8 3762074.2   211.5   3.11   5.58
2.89   YES
 L0012656   0   0.17087E-02 440615.8 3762074.3   211.5   3.11   5.58
2.89   YES
 L0012657   0   0.17087E-02 440627.8 3762074.3   211.5   3.11   5.58
2.89   YES
 L0012658   0   0.17087E-02 440639.8 3762074.3   211.6   3.11   5.58
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

              NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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L0012659	0	0.17087E-02	440651.8	3762074.3	211.7	3.11	5.58	2.89 YES
L0012660	0	0.17087E-02	440663.8	3762074.4	211.8	3.11	5.58	2.89 YES
L0012661	0	0.17087E-02	440675.8	3762074.4	211.9	3.11	5.58	2.89 YES
L0012662	0	0.17087E-02	440687.8	3762074.4	211.9	3.11	5.58	2.89 YES
L0012663	0	0.17087E-02	440699.8	3762074.4	212.0	3.11	5.58	2.89 YES
L0012664	0	0.17087E-02	440711.8	3762074.5	212.0	3.11	5.58	2.89 YES
L0012665	0	0.17087E-02	440723.8	3762074.5	212.0	3.11	5.58	2.89 YES
L0012666	0	0.17087E-02	440735.8	3762074.5	212.1	3.11	5.58	2.89 YES
L0012667	0	0.17087E-02	440747.8	3762074.5	212.1	3.11	5.58	2.89 YES
L0012668	0	0.17087E-02	440759.8	3762074.5	212.1	3.11	5.58	2.89 YES
L0012669	0	0.17087E-02	440771.8	3762074.6	212.1	3.11	5.58	2.89 YES
L0012670	0	0.17087E-02	440783.8	3762074.6	212.0	3.11	5.58	2.89 YES
L0012671	0	0.17087E-02	440795.8	3762074.6	211.9	3.11	5.58	2.89 YES
L0012672	0	0.17087E-02	440807.8	3762074.6	211.8	3.11	5.58	2.89 YES
L0012673	0	0.17087E-02	440819.8	3762074.7	211.8	3.11	5.58	2.89 YES
L0012674	0	0.17087E-02	440831.8	3762074.7	211.8	3.11	5.58	2.89 YES
L0012675	0	0.17087E-02	440843.8	3762074.7	211.8	3.11	5.58	2.89 YES
L0012676	0	0.17087E-02	440855.8	3762074.7	211.8	3.11	5.58	2.89 YES
L0012677	0	0.17087E-02	440867.8	3762074.8	211.9	3.11	5.58	2.89 YES
L0012678	0	0.17087E-02	440879.8	3762074.8	211.9	3.11	5.58	2.89 YES
L0012679	0	0.17087E-02	440891.8	3762074.8	211.9	3.11	5.58	2.89 YES
L0012680	0	0.17087E-02	440903.8	3762074.8	211.9	3.11	5.58	2.89 YES
L0012681	0	0.17087E-02	440915.8	3762074.8	211.9	3.11	5.58	2.89 YES
L0012682	0	0.17087E-02	440927.8	3762074.9	211.9	3.11	5.58	2.89 YES
L0012683	0	0.17087E-02	440939.8	3762074.9	211.9	3.11	5.58	2.89 YES

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 L0012684         0   0.17087E-02  440951.8 3762074.9   211.9     3.11     5.58
2.89     YES
 L0012685         0   0.17087E-02  440963.8 3762074.9   211.9     3.11     5.58
2.89     YES
 L0012686         0   0.17087E-02  440975.8 3762075.0   211.9     3.11     5.58
2.89     YES
 L0012687         0   0.17087E-02  440987.8 3762075.0   211.8     3.11     5.58
2.89     YES
 L0012688         0   0.17087E-02  440999.8 3762075.0   211.7     3.11     5.58
2.89     YES
 L0012689         0   0.17087E-02  441011.8 3762075.0   211.6     3.11     5.58
2.89     YES
 L0012690         0   0.17087E-02  441023.8 3762075.0   211.6     3.11     5.58
2.89     YES
 L0012691         0   0.17087E-02  441035.8 3762075.1   211.6     3.11     5.58
2.89     YES
 L0012692         0   0.17087E-02  441047.8 3762075.1   211.6     3.11     5.58
2.89     YES
 L0012693         0   0.17087E-02  441059.8 3762075.1   211.6     3.11     5.58
2.89     YES
 L0012694         0   0.17087E-02  441071.8 3762075.1   211.5     3.11     5.58
2.89     YES
 L0012695         0   0.17087E-02  441083.8 3762075.2   211.5     3.11     5.58
2.89     YES
 L0012696         0   0.17087E-02  441095.8 3762075.2   211.4     3.11     5.58
2.89     YES
 L0012697         0   0.17087E-02  441107.8 3762075.2   211.3     3.11     5.58
2.89     YES
 L0012698         0   0.17087E-02  441119.8 3762075.2   211.3     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X         Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0012699         0   0.17087E-02  441131.8 3762075.3   211.3     3.11     5.58
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2.89     YES
 L0012700         0   0.17087E-02  441143.8 3762075.3   211.3     3.11     5.58
2.89     YES
 L0012701         0   0.17087E-02  441155.8 3762075.3   211.3     3.11     5.58
2.89     YES
 L0012702         0   0.86257E-02  439895.9 3762891.0   220.4     3.11    12.56
2.89     YES
 L0012703         0   0.86257E-02  439896.2 3762918.0   220.8     3.11    12.56
2.89     YES
 L0012704         0   0.86257E-02  439896.4 3762945.0   221.0     3.11    12.56
2.89     YES
 L0012705         0   0.86257E-02  439896.7 3762972.0   221.3     3.11    12.56
2.89     YES
 L0012706         0   0.86257E-02  439897.0 3762999.0   221.6     3.11    12.56
2.89     YES
 L0012707         0   0.86257E-02  439897.3 3763026.0   221.9     3.11    12.56
2.89     YES
 L0012708         0   0.86257E-02  439897.5 3763053.0   222.2     3.11    12.56
2.89     YES
 L0012709         0   0.86257E-02  439897.8 3763080.0   222.5     3.11    12.56
2.89     YES
 L0012710         0   0.86257E-02  439898.1 3763107.0   222.8     3.11    12.56
2.89     YES
 L0012711         0   0.86257E-02  439898.4 3763134.0   223.2     3.11    12.56
2.89     YES
 L0012712         0   0.86257E-02  439898.7 3763161.0   223.6     3.11    12.56
2.89     YES
 L0012713         0   0.86257E-02  439898.9 3763188.0   223.9     3.11    12.56
2.89     YES
 L0012714         0   0.86257E-02  439899.2 3763215.0   224.3     3.11    12.56
2.89     YES
 L0012715         0   0.86257E-02  439899.5 3763242.0   224.7     3.11    12.56
2.89     YES
 L0012716         0   0.86257E-02  439899.8 3763269.0   225.1     3.11    12.56
2.89     YES
 L0012717         0   0.86257E-02  439900.0 3763296.0   225.4     3.11    12.56
2.89     YES
 L0012718         0   0.86257E-02  439900.3 3763323.0   225.8     3.11    12.56
2.89     YES
 L0012719         0   0.86257E-02  439900.6 3763350.0   226.1     3.11    12.56
2.89     YES
 L0012720         0   0.86257E-02  439900.9 3763377.0   226.3     3.11    12.56
2.89     YES
 L0012721         0   0.86257E-02  439901.1 3763404.0   226.6     3.11    12.56
2.89     YES
 L0012722         0   0.86257E-02  439901.4 3763431.0   226.8     3.11    12.56
2.89     YES
 L0012723         0   0.86257E-02  439901.7 3763458.0   227.1     3.11    12.56
2.89     YES
 L0012754         0   0.85376E-02  439898.0 3762049.6   209.9     3.11    12.56
2.89     YES
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 L0012755         0   0.85376E-02  439897.9 3762022.6   209.7     3.11    12.56
2.89     YES
 L0012756         0   0.85376E-02  439897.8 3761995.6   209.5     3.11    12.56
2.89     YES
 L0012757         0   0.85376E-02  439897.6 3761968.6   209.2     3.11    12.56
2.89     YES
 L0012758         0   0.85376E-02  439897.5 3761941.6   209.0     3.11    12.56
2.89     YES
 L0012759         0   0.85376E-02  439897.4 3761914.6   208.8     3.11    12.56
2.89     YES
 L0012760         0   0.85376E-02  439897.3 3761887.6   208.5     3.11    12.56
2.89     YES
 L0012761         0   0.85376E-02  439897.2 3761860.6   208.3     3.11    12.56
2.89     YES
 L0012762         0   0.85376E-02  439897.1 3761833.6   208.1     3.11    12.56
2.89     YES
 L0012763         0   0.85376E-02  439897.0 3761806.6   207.8     3.11    12.56
2.89     YES
 L0012764         0   0.85376E-02  439896.9 3761779.6   207.6     3.11    12.56
2.89     YES
 L0012765         0   0.85376E-02  439896.8 3761752.6   207.3     3.11    12.56
2.89     YES
 L0012766         0   0.85376E-02  439896.7 3761725.6   207.1     3.11    12.56
2.89     YES
 L0012767         0   0.85376E-02  439896.6 3761698.6   206.9     3.11    12.56
2.89     YES
 L0012768         0   0.85376E-02  439896.5 3761671.6   206.7     3.11    12.56
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0012769         0   0.85376E-02  439896.4 3761644.6   206.4     3.11    12.56
2.89     YES
 L0012770         0   0.85376E-02  439896.3 3761617.6   206.2     3.11    12.56
```

2.89 YES
L0012771 0 0.85376E-02 439896.2 3761590.6 206.0 3.11 12.56
2.89 YES
L0012772 0 0.85376E-02 439896.1 3761563.6 205.7 3.11 12.56
2.89 YES
L0012773 0 0.85376E-02 439896.0 3761536.6 205.4 3.11 12.56
2.89 YES
L0012774 0 0.85376E-02 439895.8 3761509.6 205.1 3.11 12.56
2.89 YES
L0012775 0 0.85376E-02 439895.7 3761482.6 204.8 3.11 12.56
2.89 YES
L0012776 0 0.85376E-02 439895.6 3761455.6 204.5 3.11 12.56
2.89 YES
L0013092 0 0.31051E-02 440153.7 3762863.9 220.5 3.11 5.58
2.89 YES
L0013093 0 0.31051E-02 440153.6 3762851.9 220.2 3.11 5.58
2.89 YES
L0013094 0 0.31051E-02 440153.6 3762839.9 220.0 3.11 5.58
2.89 YES
L0013095 0 0.31051E-02 440153.5 3762827.9 219.8 3.11 5.58
2.89 YES
L0013096 0 0.31051E-02 440153.5 3762815.9 219.6 3.11 5.58
2.89 YES
L0013097 0 0.31051E-02 440153.4 3762803.9 219.5 3.11 5.58
2.89 YES
L0013098 0 0.31051E-02 440153.4 3762791.9 219.3 3.11 5.58
2.89 YES
L0013099 0 0.31051E-02 440151.9 3762781.4 219.2 3.11 5.58
2.89 YES
L0013100 0 0.31051E-02 440139.9 3762781.5 219.2 3.11 5.58
2.89 YES
L0013101 0 0.31051E-02 440127.9 3762781.6 219.3 3.11 5.58
2.89 YES
L0013102 0 0.31051E-02 440115.9 3762781.8 219.3 3.11 5.58
2.89 YES
L0013103 0 0.31051E-02 440103.9 3762781.9 219.3 3.11 5.58
2.89 YES
L0013104 0 0.31051E-02 440091.9 3762782.0 219.3 3.11 5.58
2.89 YES
L0013105 0 0.31051E-02 440079.9 3762782.1 219.3 3.11 5.58
2.89 YES
L0013106 0 0.31051E-02 440067.9 3762782.3 219.4 3.11 5.58
2.89 YES
L0013107 0 0.31051E-02 440055.9 3762782.4 219.4 3.11 5.58
2.89 YES
L0013108 0 0.31051E-02 440043.9 3762782.5 219.4 3.11 5.58
2.89 YES
L0013109 0 0.31051E-02 440037.7 3762776.2 219.3 3.11 5.58
2.89 YES
L0013110 0 0.31051E-02 440027.9 3762773.9 219.3 3.11 5.58
2.89 YES

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 L0013111         0   0.31051E-02  440015.9 3762773.9   219.3     3.11     5.58
2.89     YES
 L0013112         0   0.31051E-02  440003.9 3762774.0   219.3     3.11     5.58
2.89     YES
 L0013113         0   0.31051E-02  439991.9 3762774.1   219.2     3.11     5.58
2.89     YES
 L0013114         0   0.31051E-02  439979.9 3762774.2   219.2     3.11     5.58
2.89     YES
 L0013115         0   0.31076E-02  440153.3 3762863.5   220.5     3.11     5.58
2.89     YES
 L0013116         0   0.31076E-02  440153.4 3762851.5   220.1     3.11     5.58
2.89     YES
 L0013117         0   0.31076E-02  440153.4 3762839.5   220.0     3.11     5.58
2.89     YES
 L0013118         0   0.31076E-02  440153.5 3762827.5   219.8     3.11     5.58
2.89     YES
 L0013119         0   0.31076E-02  440153.5 3762815.5   219.6     3.11     5.58
2.89     YES
 L0013120         0   0.31076E-02  440153.6 3762803.5   219.5     3.11     5.58
2.89     YES
 L0013121         0   0.31076E-02  440153.6 3762791.5   219.3     3.11     5.58
2.89     YES
 L0013122         0   0.31076E-02  440153.7 3762779.5   219.2     3.11     5.58
2.89     YES
 L0013123         0   0.31076E-02  440153.7 3762767.5   219.1     3.11     5.58
2.89     YES
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                         ***        04/03/23
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0013124         0   0.31076E-02  440146.3 3762762.8   219.1     3.11     5.58
2.89     YES
 L0013125         0   0.31076E-02  440134.3 3762762.7   219.1     3.11     5.58
2.89     YES
 L0013126         0   0.31076E-02  440122.3 3762762.5   219.1     3.11     5.58
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2.89     YES
 L0013127         0   0.31076E-02  440110.3 3762762.4   219.1     3.11     5.58
2.89     YES
 L0013128         0   0.31076E-02  440098.3 3762762.3   219.1     3.11     5.58
2.89     YES
 L0013129         0   0.31076E-02  440086.3 3762762.1   219.2     3.11     5.58
2.89     YES
 L0013130         0   0.31076E-02  440074.4 3762762.0   219.2     3.11     5.58
2.89     YES
 L0013131         0   0.31076E-02  440062.4 3762761.9   219.2     3.11     5.58
2.89     YES
 L0013132         0   0.31076E-02  440050.4 3762761.7   219.2     3.11     5.58
2.89     YES
 L0013133         0   0.31076E-02  440038.7 3762761.3   219.2     3.11     5.58
2.89     YES
 L0013134         0   0.31076E-02  440038.0 3762749.3   219.1     3.11     5.58
2.89     YES
 L0013135         0   0.31076E-02  440027.8 3762747.2   219.0     3.11     5.58
2.89     YES
 L0013136         0   0.31076E-02  440015.8 3762747.0   219.0     3.11     5.58
2.89     YES
 L0013137         0   0.31076E-02  440003.8 3762746.9   219.0     3.11     5.58
2.89     YES
 L0013138         0   0.31076E-02  439991.8 3762746.7   219.0     3.11     5.58
2.89     YES
 L0013139         0   0.31076E-02  439979.8 3762746.5   218.9     3.11     5.58
2.89     YES
 L0013140         0   0.31663E-02  440152.5 3762864.3   220.5     3.11     5.58
2.89     YES
 L0013141         0   0.31663E-02  440152.6 3762852.3   220.2     3.11     5.58
2.89     YES
 L0013142         0   0.31663E-02  440152.6 3762840.3   220.0     3.11     5.58
2.89     YES
 L0013143         0   0.31663E-02  440152.7 3762828.3   219.8     3.11     5.58
2.89     YES
 L0013144         0   0.31663E-02  440152.7 3762816.3   219.6     3.11     5.58
2.89     YES
 L0013145         0   0.31663E-02  440152.8 3762804.3   219.5     3.11     5.58
2.89     YES
 L0013146         0   0.31663E-02  440152.9 3762792.3   219.3     3.11     5.58
2.89     YES
 L0013147         0   0.31663E-02  440152.9 3762780.3   219.2     3.11     5.58
2.89     YES
 L0013148         0   0.31663E-02  440153.0 3762768.3   219.1     3.11     5.58
2.89     YES
 L0013149         0   0.31663E-02  440153.1 3762756.3   219.1     3.11     5.58
2.89     YES
 L0013150         0   0.31663E-02  440153.1 3762744.3   219.0     3.11     5.58
2.89     YES
 L0013151         0   0.31663E-02  440153.2 3762732.3   219.0     3.11     5.58
2.89     YES
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 L0013152         0   0.31663E-02  440153.3 3762720.3   218.8     3.11     5.58
2.89     YES
 L0013153         0   0.31663E-02  440153.3 3762708.3   218.7     3.11     5.58
2.89     YES
 L0013154         0   0.31663E-02  440153.4 3762696.3   218.5     3.11     5.58
2.89     YES
 L0013155         0   0.31663E-02  440153.4 3762684.3   218.3     3.11     5.58
2.89     YES
 L0013156         0   0.31663E-02  440153.5 3762672.3   218.0     3.11     5.58
2.89     YES
 L0013157         0   0.31663E-02  440153.6 3762660.3   217.8     3.11     5.58
2.89     YES
 L0013158         0   0.31663E-02  440153.6 3762648.3   217.6     3.11     5.58
2.89     YES
 L0013159         0   0.31663E-02  440153.7 3762636.3   217.5     3.11     5.58
2.89     YES
 L0013160         0   0.31663E-02  440147.7 3762628.7   217.3     3.11     5.58
2.89     YES
 L0013161         0   0.31663E-02  440136.3 3762625.1   217.2     3.11     5.58
2.89     YES
 L0013162         0   0.31663E-02  440124.8 3762621.5   217.2     3.11     5.58
2.89     YES
 L0013163         0   0.31663E-02  440113.4 3762617.9   217.2     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - -

 L0013164         0   0.31663E-02  440101.9 3762614.3   217.3     3.11     5.58
2.89     YES
 L0013165         0   0.31663E-02  440090.5 3762610.7   217.4     3.11     5.58
2.89     YES
 L0013166         0   0.31663E-02  440079.1 3762607.0   217.4     3.11     5.58
2.89     YES
 L0013167         0   0.31663E-02  440067.6 3762603.4   217.5     3.11     5.58
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2.89     YES
 L0013168         0   0.31663E-02  440056.2 3762599.8   217.5     3.11     5.58
2.89     YES
 L0013169         0   0.31663E-02  440046.9 3762599.9   217.6     3.11     5.58
2.89     YES
 L0013170         0   0.31663E-02  440044.2 3762611.6   217.8     3.11     5.58
2.89     YES
 L0013171         0   0.31663E-02  440032.3 3762611.8   217.7     3.11     5.58
2.89     YES
 L0013172         0   0.31663E-02  440020.3 3762611.8   217.4     3.11     5.58
2.89     YES
 L0013173         0   0.32546E-02  440152.5 3762863.9   220.5     3.11     5.58
2.89     YES
 L0013174         0   0.32546E-02  440152.5 3762851.9   220.2     3.11     5.58
2.89     YES
 L0013175         0   0.32546E-02  440152.6 3762839.9   220.0     3.11     5.58
2.89     YES
 L0013176         0   0.32546E-02  440152.7 3762827.9   219.8     3.11     5.58
2.89     YES
 L0013177         0   0.32546E-02  440152.7 3762815.9   219.6     3.11     5.58
2.89     YES
 L0013178         0   0.32546E-02  440152.8 3762803.9   219.5     3.11     5.58
2.89     YES
 L0013179         0   0.32546E-02  440152.8 3762791.9   219.3     3.11     5.58
2.89     YES
 L0013180         0   0.32546E-02  440150.2 3762782.6   219.2     3.11     5.58
2.89     YES
 L0013181         0   0.32546E-02  440138.2 3762782.7   219.3     3.11     5.58
2.89     YES
 L0013182         0   0.32546E-02  440126.2 3762782.8   219.3     3.11     5.58
2.89     YES
 L0013183         0   0.32546E-02  440114.2 3762782.8   219.3     3.11     5.58
2.89     YES
 L0013184         0   0.32546E-02  440102.2 3762782.9   219.3     3.11     5.58
2.89     YES
 L0013185         0   0.32546E-02  440090.2 3762783.0   219.3     3.11     5.58
2.89     YES
 L0013186         0   0.31416E-02  440152.9 3762864.8   220.5     3.11     5.58
2.89     YES
 L0013187         0   0.31416E-02  440153.1 3762852.8   220.2     3.11     5.58
2.89     YES
 L0013188         0   0.31416E-02  440153.2 3762840.8   220.0     3.11     5.58
2.89     YES
 L0013189         0   0.31416E-02  440153.3 3762828.8   219.8     3.11     5.58
2.89     YES
 L0013190         0   0.31416E-02  440153.5 3762816.8   219.6     3.11     5.58
2.89     YES
 L0013191         0   0.31416E-02  440153.6 3762804.8   219.5     3.11     5.58
2.89     YES
 L0013192         0   0.31416E-02  440153.7 3762792.8   219.3     3.11     5.58
2.89     YES
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 L0013193   0   0.31416E-02 440153.8 3762780.8   219.2   3.11   5.58
2.89   YES
 L0013194   0   0.31416E-02 440154.0 3762768.8   219.2   3.11   5.58
2.89   YES
 L0013195   0   0.31416E-02 440154.1 3762756.8   219.1   3.11   5.58
2.89   YES
 L0013196   0   0.31416E-02 440154.2 3762744.8   219.0   3.11   5.58
2.89   YES
 L0013197   0   0.31416E-02 440154.4 3762732.8   219.0   3.11   5.58
2.89   YES
 L0013198   0   0.31416E-02 440154.5 3762720.8   218.9   3.11   5.58
2.89   YES
 L0013199   0   0.31416E-02 440154.6 3762708.8   218.7   3.11   5.58
2.89   YES
 L0013200   0   0.31416E-02 440154.7 3762696.8   218.6   3.11   5.58
2.89   YES
 L0013201   0   0.31416E-02 440154.9 3762684.8   218.3   3.11   5.58
2.89   YES
 L0013202   0   0.31416E-02 440155.0 3762672.8   218.1   3.11   5.58
2.89   YES
 L0013203   0   0.31416E-02 440155.1 3762660.8   217.9   3.11   5.58
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0013204   0   0.31416E-02 440155.3 3762648.8   217.7   3.11   5.58
2.89   YES
 L0013205   0   0.31416E-02 440155.4 3762636.8   217.5   3.11   5.58
2.89   YES
 L0013206   0   0.31416E-02 440145.2 3762631.7   217.3   3.11   5.58
2.89   YES
 L0013207   0   0.31416E-02 440134.0 3762627.4   217.2   3.11   5.58
2.89   YES
 L0013208   0   0.31416E-02 440122.9 3762623.0   217.2   3.11   5.58

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2.89     YES
 L0013209         0   0.31416E-02  440111.7 3762618.7   217.2     3.11     5.58
2.89     YES
 L0013210         0   0.31416E-02  440100.5 3762614.3   217.3     3.11     5.58
2.89     YES
 L0013211         0   0.31416E-02  440089.3 3762610.0   217.4     3.11     5.58
2.89     YES
 L0013212         0   0.31416E-02  440078.1 3762605.6   217.4     3.11     5.58
2.89     YES
 L0013213         0   0.31416E-02  440066.9 3762601.3   217.5     3.11     5.58
2.89     YES
 L0013214         0   0.31416E-02  440062.4 3762606.9   217.6     3.11     5.58
2.89     YES
 L0013215         0   0.31416E-02  440062.1 3762618.9   217.7     3.11     5.58
2.89     YES
 L0013216         0   0.31416E-02  440061.8 3762630.9   217.8     3.11     5.58
2.89     YES
 L0013217         0   0.31416E-02  440061.5 3762642.9   217.9     3.11     5.58
2.89     YES
 L0013218         0   0.31416E-02  440061.2 3762654.9   218.0     3.11     5.58
2.89     YES
 L0013219         0   0.31416E-02  440060.8 3762666.9   218.1     3.11     5.58
2.89     YES
 L0013220         0   0.31416E-02  440060.5 3762678.9   218.2     3.11     5.58
2.89     YES
 L0013221         0   0.31416E-02  440060.2 3762690.9   218.4     3.11     5.58
2.89     YES
 L0013222         0   0.31416E-02  440059.9 3762702.9   218.5     3.11     5.58
2.89     YES
 L0013223         0   0.31416E-02  440059.6 3762714.9   218.7     3.11     5.58
2.89     YES
 L0013224         0   0.31416E-02  440059.4 3762726.9   218.8     3.11     5.58
2.89     YES
 L0013225         0   0.31416E-02  440059.2 3762738.9   219.0     3.11     5.58
2.89     YES
 L0013226         0   0.31416E-02  440059.1 3762750.9   219.1     3.11     5.58
2.89     YES
 L0013227         0   0.31416E-02  440058.9 3762762.9   219.2     3.11     5.58
2.89     YES
 L0013228         0   0.31416E-02  440070.0 3762763.6   219.2     3.11     5.58
2.89     YES
 L0013229         0   0.31416E-02  440082.0 3762763.4   219.2     3.11     5.58
2.89     YES
 L0013230         0   0.31416E-02  440094.0 3762763.2   219.2     3.11     5.58
2.89     YES
 L0013231         0   0.31416E-02  440106.0 3762763.0   219.1     3.11     5.58
2.89     YES
 L0013232         0   0.31416E-02  440118.0 3762762.9   219.1     3.11     5.58
2.89     YES
 L0013233         0   0.31416E-02  440130.0 3762762.7   219.1     3.11     5.58
2.89     YES
```

 L0013234   0   0.31416E-02 440142.0 3762762.5   219.1   3.11   5.58
2.89   YES
 L0013235   0   0.32008E-02 440363.3 3762685.4   218.7   0.52   5.58
0.48   YES
 L0013236   0   0.32008E-02 440351.7 3762682.3   218.7   0.52   5.58
0.48   YES
 L0013237   0   0.32008E-02 440340.0 3762679.3   218.5   0.52   5.58
0.48   YES
 L0013238   0   0.32008E-02 440328.4 3762676.3   218.2   0.52   5.58
0.48   YES
 L0013239   0   0.32008E-02 440316.8 3762673.2   218.0   0.52   5.58
0.48   YES
 L0013240   0   0.32008E-02 440305.2 3762670.2   217.9   0.52   5.58
0.48   YES
 L0013241   0   0.32008E-02 440293.6 3762667.2   217.9   0.52   5.58
0.48   YES
 L0013242   0   0.32008E-02 440282.0 3762664.1   218.2   0.52   5.58
0.48   YES
 L0013243   0   0.32008E-02 440270.4 3762661.1   218.5   0.52   5.58
0.48   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0013244   0   0.32008E-02 440258.8 3762658.1   218.4   0.52   5.58
0.48   YES
 L0013245   0   0.32008E-02 440257.8 3762669.4   218.6   0.52   5.58
0.48   YES
 L0013246   0   0.32008E-02 440257.4 3762681.4   218.8   0.52   5.58
0.48   YES
 L0013247   0   0.32008E-02 440257.0 3762693.4   218.9   0.52   5.58
0.48   YES
 L0013248   0   0.32008E-02 440256.6 3762705.4   219.0   0.52   5.58
0.48   YES
 L0013249   0   0.32008E-02 440256.1 3762717.3   219.2   0.52   5.58

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0.48     YES
 L0013250         0   0.32008E-02  440255.7 3762729.3   219.2     0.52     5.58
0.48     YES
 L0013251         0   0.32008E-02  440255.3 3762741.3   219.4     0.52     5.58
0.48     YES
 L0013252         0   0.32008E-02  440254.8 3762753.3   219.6     0.52     5.58
0.48     YES
 L0013253         0   0.32008E-02  440254.4 3762765.3   219.7     0.52     5.58
0.48     YES
 L0013254         0   0.32008E-02  440254.0 3762777.3   219.8     0.52     5.58
0.48     YES
 L0013255         0   0.32152E-02  440362.8 3762687.0   218.7     3.11     5.58
2.89     YES
 L0013256         0   0.32152E-02  440351.2 3762684.0   218.7     3.11     5.58
2.89     YES
 L0013257         0   0.32152E-02  440339.6 3762680.9   218.5     3.11     5.58
2.89     YES
 L0013258         0   0.32152E-02  440328.0 3762677.8   218.2     3.11     5.58
2.89     YES
 L0013259         0   0.32152E-02  440316.4 3762674.8   218.0     3.11     5.58
2.89     YES
 L0013260         0   0.32152E-02  440304.8 3762671.7   217.9     3.11     5.58
2.89     YES
 L0013261         0   0.32152E-02  440293.2 3762668.7   217.9     3.11     5.58
2.89     YES
 L0013262         0   0.32152E-02  440281.6 3762665.6   218.2     3.11     5.58
2.89     YES
 L0013263         0   0.32152E-02  440279.6 3762675.0   218.4     3.11     5.58
2.89     YES
 L0013264         0   0.32152E-02  440279.4 3762687.0   218.6     3.11     5.58
2.89     YES
 L0013265         0   0.32152E-02  440279.3 3762699.0   218.7     3.11     5.58
2.89     YES
 L0013266         0   0.32152E-02  440279.2 3762711.0   218.8     3.11     5.58
2.89     YES
 L0013267         0   0.32152E-02  440279.1 3762723.0   218.8     3.11     5.58
2.89     YES
 L0013268         0   0.32152E-02  440279.0 3762735.0   219.0     3.11     5.58
2.89     YES
 L0013269         0   0.32152E-02  440278.9 3762747.0   219.2     3.11     5.58
2.89     YES
 L0013270         0   0.32152E-02  440278.7 3762759.0   219.4     3.11     5.58
2.89     YES
 L0013271         0   0.32152E-02  440278.6 3762771.0   219.6     3.11     5.58
2.89     YES
 L0013272         0   0.32152E-02  440278.5 3762783.0   219.7     3.11     5.58
2.89     YES
 L0013273         0   0.31826E-02  439917.2 3762526.0   215.6     3.11     5.58
2.89     YES
 L0013274         0   0.31826E-02  439929.1 3762527.8   215.5     3.11     5.58
2.89     YES
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 L0013275         0   0.31826E-02  439941.0 3762529.5   215.5     3.11     5.58
2.89     YES
 L0013276         0   0.31826E-02  439952.8 3762531.3   215.5     3.11     5.58
2.89     YES
 L0013277         0   0.31826E-02  439964.7 3762533.1   215.6     3.11     5.58
2.89     YES
 L0013278         0   0.31826E-02  439976.6 3762534.9   215.7     3.11     5.58
2.89     YES
 L0013279         0   0.31826E-02  439988.4 3762536.6   215.8     3.11     5.58
2.89     YES
 L0013280         0   0.31826E-02  440000.1 3762539.5   216.0     3.11     5.58
2.89     YES
 L0013281         0   0.31826E-02  440011.7 3762542.6   216.2     3.11     5.58
2.89     YES
 L0013282         0   0.31826E-02  440023.2 3762545.7   216.6     3.11     5.58
2.89     YES
 L0013283         0   0.31826E-02  440034.8 3762548.8   216.9     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:47:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0013284         0   0.31826E-02  440046.4 3762552.0   217.0     3.11     5.58
2.89     YES
 L0013285         0   0.31826E-02  440058.0 3762555.1   217.0     3.11     5.58
2.89     YES
 L0013286         0   0.31826E-02  440069.6 3762558.2   216.9     3.11     5.58
2.89     YES
 L0013287         0   0.31826E-02  440081.2 3762561.3   216.8     3.11     5.58
2.89     YES
 L0013288         0   0.31826E-02  440092.8 3762564.5   216.7     3.11     5.58
2.89     YES
 L0013289         0   0.31826E-02  440104.4 3762567.6   216.6     3.11     5.58
2.89     YES
 L0013290         0   0.31826E-02  440115.9 3762570.7   216.4     3.11     5.58
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2.89     YES
 L0013291         0   0.31826E-02  440127.5 3762573.8   216.5     3.11     5.58
2.89     YES
 L0013292         0   0.31826E-02  440139.1 3762577.0   216.5     3.11     5.58
2.89     YES
 L0013293         0   0.31826E-02  440150.7 3762580.1   216.7     3.11     5.58
2.89     YES
 L0013294         0   0.31826E-02  440162.3 3762583.2   217.0     3.11     5.58
2.89     YES
 L0013295         0   0.31826E-02  440173.9 3762586.3   217.2     3.11     5.58
2.89     YES
 L0013296         0   0.31826E-02  440185.5 3762589.4   217.3     3.11     5.58
2.89     YES
 L0013297         0   0.31826E-02  440197.0 3762592.6   217.5     3.11     5.58
2.89     YES
 L0013298         0   0.31826E-02  440208.6 3762595.7   217.6     3.11     5.58
2.89     YES
 L0013299         0   0.31826E-02  440220.2 3762598.8   217.6     3.11     5.58
2.89     YES
 L0013300         0   0.31826E-02  440231.8 3762601.9   217.6     3.11     5.58
2.89     YES
 L0013301         0   0.31826E-02  440243.4 3762605.1   217.5     3.11     5.58
2.89     YES
 L0013302         0   0.31826E-02  440255.0 3762608.2   217.4     3.11     5.58
2.89     YES
 L0013303         0   0.31826E-02  440266.6 3762611.3   217.3     3.11     5.58
2.89     YES
 L0013304         0   0.31826E-02  440278.1 3762614.4   217.2     3.11     5.58
2.89     YES
 L0013305         0   0.31826E-02  440289.7 3762617.6   217.2     3.11     5.58
2.89     YES
 L0013306         0   0.31826E-02  440301.3 3762620.7   217.2     3.11     5.58
2.89     YES
 L0013307         0   0.31826E-02  440312.9 3762623.8   217.4     3.11     5.58
2.89     YES
 L0013308         0   0.31826E-02  440324.5 3762626.9   217.6     3.11     5.58
2.89     YES
 L0013309         0   0.31826E-02  440336.1 3762630.0   217.9     3.11     5.58
2.89     YES
 L0013310         0   0.31826E-02  440347.7 3762633.2   218.2     3.11     5.58
2.89     YES
 L0013311         0   0.31826E-02  440359.3 3762636.1   218.3     3.11     5.58
2.89     YES
 L0013312         0   0.32493E-02  440364.6 3762566.9   217.2     3.11     5.58
2.89     YES
 L0013313         0   0.32493E-02  440352.6 3762566.5   216.8     3.11     5.58
2.89     YES
 L0013314         0   0.32493E-02  440340.6 3762566.2   216.4     3.11     5.58
2.89     YES
 L0013315         0   0.32493E-02  440328.6 3762565.8   215.9     3.11     5.58
2.89     YES
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 L0013316   0   0.32493E-02 440316.6 3762565.4   215.6   3.11   5.58
2.89   YES
 L0013317   0   0.32493E-02 440304.6 3762565.0   215.6   3.11   5.58
2.89   YES
 L0013318   0   0.32493E-02 440292.6 3762564.7   215.6   3.11   5.58
2.89   YES
 L0013319   0   0.32493E-02 440280.6 3762564.3   215.6   3.11   5.58
2.89   YES
 L0013320   0   0.32493E-02 440268.9 3762562.1   215.5   3.11   5.58
2.89   YES
 L0013321   0   0.32493E-02 440257.4 3762558.6   215.5   3.11   5.58
2.89   YES
 L0013322   0   0.32138E-02 439917.8 3762403.9   214.1   3.11   5.58
2.89   YES
 L0013323   0   0.32138E-02 439929.8 3762404.4   213.8   3.11   5.58
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0013324   0   0.32138E-02 439941.8 3762404.9   213.6   3.11   5.58
2.89   YES
 L0013325   0   0.32138E-02 439953.7 3762405.3   213.5   3.11   5.58
2.89   YES
 L0013326   0   0.32138E-02 439965.7 3762405.8   213.5   3.11   5.58
2.89   YES
 L0013327   0   0.32138E-02 439977.7 3762406.3   213.8   3.11   5.58
2.89   YES
 L0013328   0   0.32138E-02 439989.7 3762406.8   214.2   3.11   5.58
2.89   YES
 L0013329   0   0.32138E-02 440001.7 3762407.3   214.7   3.11   5.58
2.89   YES
 L0013330   0   0.32138E-02 440009.6 3762412.2   215.0   3.11   5.58
2.89   YES
 L0013331   0   0.32138E-02 440017.2 3762417.2   215.2   3.11   5.58

2.89 YES
L0013332 0 0.32138E-02 440029.2 3762417.5 215.3 3.11 5.58
2.89 YES
L0013333 0 0.32138E-02 440041.2 3762417.8 215.3 3.11 5.58
2.89 YES
L0013334 0 0.32138E-02 440053.2 3762418.1 215.2 3.11 5.58
2.89 YES
L0013335 0 0.32138E-02 440065.2 3762418.4 215.1 3.11 5.58
2.89 YES
L0013336 0 0.32138E-02 440077.2 3762418.7 215.0 3.11 5.58
2.89 YES
L0013337 0 0.32138E-02 440089.2 3762419.0 215.0 3.11 5.58
2.89 YES
L0013338 0 0.32138E-02 440101.2 3762419.3 215.0 3.11 5.58
2.89 YES
L0013339 0 0.32138E-02 440113.2 3762419.7 215.0 3.11 5.58
2.89 YES
L0013340 0 0.31919E-02 439916.8 3762404.0 214.1 3.11 5.58
2.89 YES
L0013341 0 0.31919E-02 439928.8 3762404.6 213.9 3.11 5.58
2.89 YES
L0013342 0 0.31919E-02 439940.7 3762405.2 213.7 3.11 5.58
2.89 YES
L0013343 0 0.31919E-02 439952.7 3762405.9 213.5 3.11 5.58
2.89 YES
L0013344 0 0.31919E-02 439964.7 3762406.5 213.5 3.11 5.58
2.89 YES
L0013345 0 0.31919E-02 439976.7 3762407.2 213.8 3.11 5.58
2.89 YES
L0013346 0 0.31919E-02 439988.7 3762407.8 214.2 3.11 5.58
2.89 YES
L0013347 0 0.31919E-02 440000.7 3762408.5 214.7 3.11 5.58
2.89 YES
L0013348 0 0.31919E-02 440008.9 3762400.8 214.9 3.11 5.58
2.89 YES
L0013349 0 0.31919E-02 440018.7 3762396.1 215.1 3.11 5.58
2.89 YES
L0013350 0 0.31919E-02 440030.7 3762395.8 215.1 3.11 5.58
2.89 YES
L0013351 0 0.31919E-02 440042.7 3762395.6 215.1 3.11 5.58
2.89 YES
L0013352 0 0.31919E-02 440054.7 3762395.3 214.9 3.11 5.58
2.89 YES
L0013353 0 0.31919E-02 440066.7 3762395.0 214.8 3.11 5.58
2.89 YES
L0013354 0 0.31919E-02 440078.7 3762394.8 214.7 3.11 5.58
2.89 YES
L0013355 0 0.31919E-02 440090.7 3762394.5 214.7 3.11 5.58
2.89 YES
L0013356 0 0.31919E-02 440102.7 3762394.2 214.7 3.11 5.58
2.89 YES

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0013357	0	0.31919E-02	440114.7	3762394.0	214.7	3.11	5.58	2.89	YES	
L0013358	0	0.31220E-02	439917.3	3762405.5	214.1	3.11	5.58	2.89	YES	
L0013359	0	0.31220E-02	439929.3	3762405.7	213.9	3.11	5.58	2.89	YES	
L0013360	0	0.31220E-02	439941.3	3762406.0	213.7	3.11	5.58	2.89	YES	
L0013361	0	0.31220E-02	439953.3	3762406.3	213.5	3.11	5.58	2.89	YES	
L0013362	0	0.31220E-02	439965.3	3762406.5	213.5	3.11	5.58	2.89	YES	
L0013363	0	0.31220E-02	439977.3	3762406.8	213.8	3.11	5.58	2.89	YES	
L0013364	0	0.31220E-02	439989.3	3762407.0	214.2	3.11	5.58	2.89	YES	
L0013365	0	0.31220E-02	440001.3	3762407.3	214.7	3.11	5.58	2.89	YES	
L0013366	0	0.31220E-02	440007.4	3762413.3	214.9	3.11	5.58	2.89	YES	
L0013367	0	0.31220E-02	440007.4	3762425.3	215.0	3.11	5.58	2.89	YES	
L0013368	0	0.31220E-02	440007.3	3762437.3	215.0	3.11	5.58	2.89	YES	
L0013369	0	0.31220E-02	440007.3	3762449.3	215.0	3.11	5.58	2.89	YES	
L0013370	0	0.31220E-02	440007.2	3762461.3	215.1	3.11	5.58	2.89	YES	
L0013371	0	0.31220E-02	440007.1	3762473.3	215.2	3.11	5.58	2.89	YES	
L0013372	0	0.31220E-02	440007.1	3762485.3	215.3	3.11	5.58			

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2.89     YES
 L0013373         0   0.31220E-02  440007.0 3762497.3   215.5     3.11     5.58
2.89     YES
 L0013374         0   0.31220E-02  440002.0 3762499.7   215.5     3.11     5.58
2.89     YES
 L0013375         0   0.31220E-02  439992.1 3762492.9   215.2     3.11     5.58
2.89     YES
 L0013376         0   0.31220E-02  439982.2 3762486.1   215.0     3.11     5.58
2.89     YES
 L0013377         0   0.32136E-02  439917.7 3762405.4   214.1     3.11     5.58
2.89     YES
 L0013378         0   0.32136E-02  439929.7 3762405.6   213.8     3.11     5.58
2.89     YES
 L0013379         0   0.32136E-02  439941.7 3762405.7   213.7     3.11     5.58
2.89     YES
 L0013380         0   0.32136E-02  439953.7 3762405.9   213.5     3.11     5.58
2.89     YES
 L0013381         0   0.32136E-02  439965.7 3762406.1   213.5     3.11     5.58
2.89     YES
 L0013382         0   0.32136E-02  439977.7 3762406.2   213.8     3.11     5.58
2.89     YES
 L0013383         0   0.32136E-02  439989.7 3762406.4   214.2     3.11     5.58
2.89     YES
 L0013384         0   0.32136E-02  440001.7 3762406.6   214.7     3.11     5.58
2.89     YES
 L0013385         0   0.32136E-02  440005.2 3762397.8   214.7     3.11     5.58
2.89     YES
 L0013386         0   0.32136E-02  440005.6 3762385.8   214.6     3.11     5.58
2.89     YES
 L0013387         0   0.32136E-02  440006.0 3762373.8   214.3     3.11     5.58
2.89     YES
 L0013388         0   0.32136E-02  440006.4 3762361.8   214.1     3.11     5.58
2.89     YES
 L0013389         0   0.32136E-02  440006.8 3762349.8   213.9     3.11     5.58
2.89     YES
 L0013390         0   0.32136E-02  440007.2 3762337.8   213.8     3.11     5.58
2.89     YES
 L0013391         0   0.32136E-02  440001.1 3762331.0   213.6     3.11     5.58
2.89     YES
 L0013392         0   0.32136E-02  439989.4 3762328.5   213.5     3.11     5.58
2.89     YES
 L0013393         0   0.32583E-02  439918.6 3762260.0   212.2     3.11     5.58
2.89     YES
 L0013394         0   0.32583E-02  439930.6 3762259.9   212.4     3.11     5.58
2.89     YES
 L0013395         0   0.32583E-02  439942.6 3762259.8   212.4     3.11     5.58
2.89     YES
 L0013396         0   0.32583E-02  439954.6 3762259.7   212.4     3.11     5.58
2.89     YES
 L0013397         0   0.32583E-02  439966.6 3762259.6   212.4     3.11     5.58
2.89     YES
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 L0013398         0   0.32583E-02  439978.6 3762259.5   212.5     3.11     5.58
2.89     YES
 L0013399         0   0.32583E-02  439990.6 3762259.3   212.6     3.11     5.58
2.89     YES
 L0013400         0   0.32583E-02  440002.6 3762259.2   212.7     3.11     5.58
2.89     YES
 L0013401         0   0.32583E-02  440014.6 3762259.1   212.8     3.11     5.58
2.89     YES
 L0013402         0   0.32583E-02  440026.6 3762259.0   212.9     3.11     5.58
2.89     YES
 L0013403         0   0.32583E-02  440038.6 3762258.9   213.0     3.11     5.58
2.89     YES
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                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                      BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0013404         0   0.32583E-02  440050.6 3762258.8   213.0     3.11     5.58
2.89     YES
 L0013405         0   0.32583E-02  440062.6 3762258.6   213.1     3.11     5.58
2.89     YES
 L0013406         0   0.32583E-02  440074.6 3762258.5   213.1     3.11     5.58
2.89     YES
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                                                    *** AREAPOLY SOURCE DATA ***

               NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER
 INIT.   URBAN  EMISSION RATE
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PAREA1		0	0.77462E-05	439975.9	3762818.3	219.6	5.00	5	
0.00	YES	HRDOW7							
PAREA2		0	0.84798E-05	439957.5	3762492.3	215.0	5.00	9	
0.00	YES	HRDOW7							
PAREA3		0	0.40539E-05	439958.9	3762265.3	212.5	5.00	5	
0.00	YES	HRDOW7							

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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             L0013172    , L0013173    , L0013174    , L0013175    , L0013176    ,
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L0013185    , L0013186    , L0013187    ,

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L0013193    , L0013194    , L0013195    ,

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L0013201    , L0013202    , L0013203    ,

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L0013209    , L0013210    , L0013211    ,

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L0013217    , L0013218    , L0013219    ,

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L0013225    , L0013226    , L0013227    ,

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L0013233    , L0013234    , L0013235    ,

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L0013241    , L0013242    , L0013243    ,

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L0013249    , L0013250    , L0013251    ,
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                 SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0011988 , L0011989 , L0011990 , L0011991 , L0011992 , L0011993 , L0011994 , L0011995 ,
	L0011996 , L0011997 , L0011998 , L0011999 , L0012000 , L0012001 , L0012002 , L0012003 ,
P1OFFSIT	L0012462 , L0012463 , L0012464 , L0012465 , L0012466 , L0012467 , L0012468 , L0012469 ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                           ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       22:47:09
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
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	L0012769 , L0012770 , L0012771 , L0012772 , L0012773 , L0012774 , L0012775 , L0012776 ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0013385    , L0013386    , L0013387    ,
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:47:09

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID — SOURCE IDs

L0013388 , L0013389 , L0013390 , L0013391 , L0013392 , L0013393 , L0013394 , L0013395 ,

L0013396 , L0013397 , L0013398 , L0013399 , L0013400 , L0013401 , L0013402 , L0013403 ,

L0013404 , L0013405 , L0013406 , PAREA1 , PAREA2 , PAREA3 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID — URBAN POP — SOURCE IDs

2035210. L0011959 , L0011960 , L0011961 , L0011962 , L0011963 , L0011964 , L0011953 , L0011954 ,

L0011955 , L0011965 , L0011966 , L0011967 , L0011968 , L0011969 , L0011970 , L0011971 ,

L0011972 , L0011973 , L0011974 , L0011975 , L0011976 , L0011977 , L0011978 , L0011979 ,

L0011980 , L0011981 , L0011982 , L0011983 , L0011984 , L0011985 , L0011986 , L0011987 ,

L0011988 , L0011989 , L0011990 , L0011991 , L0011992 , L0011993 , L0011994 , L0011995 ,

L0011996 , L0011997 , L0011998 , L0011999 , L0012000 , L0012001 , L0012002 , L0012003 ,

L0012462 , L0012463 , L0012464 , L0012465 , L0012466 , L0012467 , L0012468 , L0012469 ,

L0012470 , L0012471 , L0012472 , L0012473 , L0012474 ,
L0012475 , L0012476 , L0012477 ,

L0012478 , L0012479 , L0012480 , L0012481 , L0012482 ,
L0012483 , L0012484 , L0012485 ,

L0012486 , L0012487 , L0012488 , L0012489 , L0012490 ,
L0012491 , L0012492 , L0012493 ,

L0012494 , L0012495 , L0012496 , L0012532 , L0012533 ,
L0012534 , L0012535 , L0012536 ,

L0012537 , L0012538 , L0012539 , L0012540 , L0012541 ,
L0012542 , L0012543 , L0012544 ,

L0012545 , L0012546 , L0012547 , L0012548 , L0012549 ,
L0012550 , L0012551 , L0012552 ,

L0012553 , L0012554 , L0012555 , L0012556 , L0012557 ,
L0012558 , L0012559 , L0012560 ,

L0012561 , L0012562 , L0012563 , L0012564 , L0012565 ,
L0012566 , L0012567 , L0012568 ,

L0012569 , L0012570 , L0012571 , L0012572 , L0012573 ,
L0012574 , L0012575 , L0012576 ,

L0012577 , L0012578 , L0012579 , L0012580 , L0012581 ,
L0012582 , L0012583 , L0012584 ,

L0012585 , L0012586 , L0012587 , L0012588 , L0012589 ,
L0012590 , L0012591 , L0012592 ,

L0012593 , L0012594 , L0012595 , L0012596 , L0012597 ,
L0012724 , L0012725 , L0012726 ,

L0012727 , L0012728 , L0012729 , L0012730 , L0012731 ,
L0012732 , L0012733 , L0012734 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES
***

URBAN ID	URBAN POP	SOURCE IDs
		L0012735 , L0012736 , L0012737 , L0012738 , L0012739 , L0012740 , L0012741 , L0012742 ,
		L0012743 , L0012744 , L0012745 , L0012746 , L0012747 , L0012748 , L0012749 , L0012750 ,
		L0012751 , L0012752 , L0012753 , L0012598 , L0012599 , L0012600 , L0012601 , L0012602 ,
		L0012603 , L0012604 , L0012605 , L0012606 , L0012607 , L0012608 , L0012609 , L0012610 ,
		L0012611 , L0012612 , L0012613 , L0012614 , L0012615 , L0012616 , L0012617 , L0012618 ,
		L0012619 , L0012620 , L0012621 , L0012622 , L0012623 , L0012624 , L0012625 , L0012626 ,
		L0012627 , L0012628 , L0012629 , L0012630 , L0012631 , L0012632 , L0012633 , L0012634 ,
		L0012635 , L0012636 , L0012637 , L0012638 , L0012639 , L0012640 , L0012641 , L0012642 ,
		L0012643 , L0012644 , L0012645 , L0012646 , L0012647 , L0012648 , L0012649 , L0012650 ,
		L0012651 , L0012652 , L0012653 , L0012654 , L0012655 , L0012656 , L0012657 , L0012658 ,
		L0012659 , L0012660 , L0012661 , L0012662 , L0012663 , L0012664 , L0012665 , L0012666 ,
		L0012667 , L0012668 , L0012669 , L0012670 , L0012671 , L0012672 , L0012673 , L0012674 ,
		L0012675 , L0012676 , L0012677 , L0012678 , L0012679 , L0012680 , L0012681 , L0012682 ,
		L0012683 , L0012684 , L0012685 , L0012686 , L0012687 , L0012688 , L0012689 , L0012690 ,
		L0012691 , L0012692 , L0012693 , L0012694 , L0012695 , L0012696 , L0012697 , L0012698 ,
		L0012699 , L0012700 , L0012701 , L0012702 , L0012703 , L0012704 , L0012705 , L0012706 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0012769 , L0012770 , L0012771 , L0012772 , L0012773 ,
L0012774 , L0012775 , L0012776 ,

L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 ,

L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 ,

L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 ,

L0013116 , L0013117 , L0013118 , L0013119 , L0013120 ,
L0013121 , L0013122 , L0013123 ,

L0013124 , L0013125 , L0013126 , L0013127 , L0013128 ,
L0013129 , L0013130 , L0013131 ,

L0013132 , L0013133 , L0013134 , L0013135 , L0013136 ,
L0013137 , L0013138 , L0013139 ,

L0013140 , L0013141 , L0013142 , L0013143 , L0013144 ,
L0013145 , L0013146 , L0013147 ,

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             L0013148    , L0013149    , L0013150    , L0013151    , L0013152    ,
L0013153    , L0013154    , L0013155    ,

             L0013156    , L0013157    , L0013158    , L0013159    , L0013160    ,
L0013161    , L0013162    , L0013163    ,

             L0013164    , L0013165    , L0013166    , L0013167    , L0013168    ,
L0013169    , L0013170    , L0013171    ,

             L0013172    , L0013173    , L0013174    , L0013175    , L0013176    ,
L0013177    , L0013178    , L0013179    ,

             L0013180    , L0013181    , L0013182    , L0013183    , L0013184    ,
L0013185    , L0013186    , L0013187    ,

             L0013188    , L0013189    , L0013190    , L0013191    , L0013192    ,
L0013193    , L0013194    , L0013195    ,

             L0013196    , L0013197    , L0013198    , L0013199    , L0013200    ,
L0013201    , L0013202    , L0013203    ,

             L0013204    , L0013205    , L0013206    , L0013207    , L0013208    ,
L0013209    , L0013210    , L0013211    ,

             L0013212    , L0013213    , L0013214    , L0013215    , L0013216    ,
L0013217    , L0013218    , L0013219    ,

             L0013220    , L0013221    , L0013222    , L0013223    , L0013224    ,
L0013225    , L0013226    , L0013227    ,

             L0013228    , L0013229    , L0013230    , L0013231    , L0013232    ,
L0013233    , L0013234    , L0013235    ,

             L0013236    , L0013237    , L0013238    , L0013239    , L0013240    ,
L0013241    , L0013242    , L0013243    ,
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------
```

```
            L0013244    , L0013245    , L0013246    , L0013247    , L0013248    ,
L0013249    , L0013250    , L0013251    ,

            L0013252    , L0013253    , L0013254    , L0013255    , L0013256    ,
L0013257    , L0013258    , L0013259    ,

            L0013260    , L0013261    , L0013262    , L0013263    , L0013264    ,
L0013265    , L0013266    , L0013267    ,

            L0013268    , L0013269    , L0013270    , L0013271    , L0013272    ,
L0013273    , L0013274    , L0013275    ,

            L0013276    , L0013277    , L0013278    , L0013279    , L0013280    ,
L0013281    , L0013282    , L0013283    ,

            L0013284    , L0013285    , L0013286    , L0013287    , L0013288    ,
L0013289    , L0013290    , L0013291    ,

            L0013292    , L0013293    , L0013294    , L0013295    , L0013296    ,
L0013297    , L0013298    , L0013299    ,

            L0013300    , L0013301    , L0013302    , L0013303    , L0013304    ,
L0013305    , L0013306    , L0013307    ,

            L0013308    , L0013309    , L0013310    , L0013311    , L0013312    ,
L0013313    , L0013314    , L0013315    ,

            L0013316    , L0013317    , L0013318    , L0013319    , L0013320    ,
L0013321    , L0013322    , L0013323    ,

            L0013324    , L0013325    , L0013326    , L0013327    , L0013328    ,
L0013329    , L0013330    , L0013331    ,

            L0013332    , L0013333    , L0013334    , L0013335    , L0013336    ,
L0013337    , L0013338    , L0013339    ,

            L0013340    , L0013341    , L0013342    , L0013343    , L0013344    ,
L0013345    , L0013346    , L0013347    ,

            L0013348    , L0013349    , L0013350    , L0013351    , L0013352    ,
L0013353    , L0013354    , L0013355    ,

            L0013356    , L0013357    , L0013358    , L0013359    , L0013360    ,
L0013361    , L0013362    , L0013363    ,

            L0013364    , L0013365    , L0013366    , L0013367    , L0013368    ,
L0013369    , L0013370    , L0013371    ,

            L0013372    , L0013373    , L0013374    , L0013375    , L0013376    ,
L0013377    , L0013378    , L0013379    ,
```

                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = PAREA1   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .1000E+01
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = TUESDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *
```

```
 SOURCE ID = PAREA2       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - -
```

                  * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

 SOURCE ID = PAREA3   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -

                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .1000E+01
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = FRIDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00

```
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     ( 440407.9, 3761497.8,     205.4,     205.4,       0.0);         ( 439943.4,
3761716.3,     206.8,     206.8,       0.0);
     ( 439170.2, 3763092.5,     220.1,     220.1,       0.0);         ( 439220.2,
3763092.5,     220.7,     220.7,       0.0);
     ( 439270.2, 3763092.5,     220.6,     220.6,       0.0);         ( 439320.2,
3763092.5,     220.9,     220.9,       0.0);
     ( 439370.2, 3763092.5,     221.0,     221.0,       0.0);         ( 439420.2,
3763092.5,     220.7,     220.7,       0.0);
     ( 439470.2, 3763092.5,     220.4,     220.4,       0.0);         ( 439520.2,
3763092.5,     220.4,     220.4,       0.0);
     ( 439570.2, 3763092.5,     220.4,     220.4,       0.0);         ( 439620.2,
3763092.5,     220.9,     220.9,       0.0);
     ( 439670.2, 3763092.5,     221.6,     221.6,       0.0);         ( 439720.2,
3763092.5,     221.9,     221.9,       0.0);
     ( 439770.2, 3763092.5,     222.1,     222.1,       0.0);         ( 439820.2,
3763092.5,     222.3,     222.3,       0.0);
     ( 439870.2, 3763092.5,     222.6,     222.6,       0.0);         ( 439170.2,
3763142.5,     220.8,     220.8,       0.0);
     ( 439220.2, 3763142.5,     221.2,     221.2,       0.0);         ( 439270.2,
3763142.5,     221.0,     221.0,       0.0);
     ( 439320.2, 3763142.5,     221.3,     221.3,       0.0);         ( 439370.2,
```

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3763142.5,     221.3,     221.3,       0.0);
     ( 439420.2, 3763142.5,     221.0,     221.0,       0.0);         ( 439470.2,
3763142.5,     221.3,     221.3,       0.0);
     ( 439520.2, 3763142.5,     221.5,     221.5,       0.0);         ( 439570.2,
3763142.5,     221.2,     221.2,       0.0);
     ( 439620.2, 3763142.5,     221.3,     221.3,       0.0);         ( 439670.2,
3763142.5,     222.0,     222.0,       0.0);
     ( 439720.2, 3763142.5,     222.3,     222.3,       0.0);         ( 439770.2,
3763142.5,     222.6,     222.6,       0.0);
     ( 439820.2, 3763142.5,     222.9,     222.9,       0.0);         ( 439870.2,
3763142.5,     223.2,     223.2,       0.0);
     ( 439170.2, 3763192.5,     221.4,     221.4,       0.0);         ( 439220.2,
3763192.5,     221.6,     221.6,       0.0);
     ( 439270.2, 3763192.5,     221.3,     221.3,       0.0);         ( 439320.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439370.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439420.2,
3763192.5,     221.3,     221.3,       0.0);
     ( 439470.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439520.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439570.2, 3763192.5,     221.8,     221.8,       0.0);         ( 439620.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439670.2, 3763192.5,     222.5,     222.5,       0.0);         ( 439720.2,
3763192.5,     223.2,     223.2,       0.0);
     ( 439770.2, 3763192.5,     223.5,     223.5,       0.0);         ( 439820.2,
3763192.5,     223.7,     223.7,       0.0);
     ( 439870.2, 3763192.5,     223.9,     223.9,       0.0);         ( 439170.2,
3763242.5,     222.1,     222.1,       0.0);
     ( 439220.2, 3763242.5,     222.1,     222.1,       0.0);         ( 439270.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439320.2, 3763242.5,     222.0,     222.0,       0.0);         ( 439370.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439420.2, 3763242.5,     221.9,     221.9,       0.0);         ( 439470.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439520.2, 3763242.5,     222.3,     222.3,       0.0);         ( 439570.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439620.2, 3763242.5,     222.2,     222.2,       0.0);         ( 439670.2,
3763242.5,     222.8,     222.8,       0.0);
     ( 439720.2, 3763242.5,     223.5,     223.5,       0.0);         ( 439770.2,
3763242.5,     224.0,     224.0,       0.0);
     ( 439820.2, 3763242.5,     224.3,     224.3,       0.0);         ( 439870.2,
3763242.5,     224.5,     224.5,       0.0);
     ( 439170.2, 3763292.5,     222.9,     222.9,       0.0);         ( 439220.2,
3763292.5,     223.4,     223.4,       0.0);
     ( 439270.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439320.2,
3763292.5,     223.0,     223.0,       0.0);
     ( 439370.2, 3763292.5,     222.5,     222.5,       0.0);         ( 439420.2,
3763292.5,     222.9,     222.9,       0.0);
     ( 439470.2, 3763292.5,     223.2,     223.2,       0.0);         ( 439520.2,
3763292.5,     223.5,     223.5,       0.0);
     ( 439570.2, 3763292.5,     223.0,     223.0,       0.0);         ( 439620.2,
3763292.5,     223.1,     223.1,       0.0);
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(439670.2, 3763292.5, 223.3, 223.3, 0.0); (439720.2, 3763292.5, 224.0, 224.0, 0.0);
(439770.2, 3763292.5, 224.8, 224.8, 0.0); (439820.2, 3763292.5, 225.1, 225.1, 0.0);
(439870.2, 3763292.5, 225.1, 225.1, 0.0); (439170.2, 3763342.5, 223.6, 223.6, 0.0);
(439220.2, 3763342.5, 224.0, 224.0, 0.0); (439270.2, 3763342.5, 223.5, 223.5, 0.0);
(439320.2, 3763342.5, 223.4, 223.4, 0.0); (439370.2, 3763342.5, 223.0, 223.0, 0.0);
(439420.2, 3763342.5, 223.3, 223.3, 0.0); (439470.2, 3763342.5, 223.6, 223.6, 0.0);
(439520.2, 3763342.5, 223.9, 223.9, 0.0); (439570.2, 3763342.5, 223.7, 223.7, 0.0);
(439620.2, 3763342.5, 223.5, 223.5, 0.0); (439670.2, 3763342.5, 223.9, 223.9, 0.0);
(439720.2, 3763342.5, 224.4, 224.4, 0.0); (439770.2, 3763342.5, 225.3, 225.3, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439820.2, 3763342.5, 225.6, 225.6, 0.0); (439870.2, 3763342.5, 225.8, 225.8, 0.0);
(439170.2, 3763392.5, 224.3, 224.3, 0.0); (439220.2, 3763392.5, 224.5, 224.5, 0.0);
(439270.2, 3763392.5, 223.9, 223.9, 0.0); (439320.2, 3763392.5, 224.3, 224.3, 0.0);
(439370.2, 3763392.5, 224.0, 224.0, 0.0); (439420.2, 3763392.5, 224.4, 224.4, 0.0);
(439470.2, 3763392.5, 224.7, 224.7, 0.0); (439520.2, 3763392.5, 224.3, 224.3, 0.0);
(439570.2, 3763392.5, 224.2, 224.2, 0.0); (439620.2, 3763392.5, 224.0, 224.0, 0.0);
(439670.2, 3763392.5, 224.5, 224.5, 0.0); (439720.2, 3763392.5, 224.8, 224.8, 0.0);
(439770.2, 3763392.5, 225.6, 225.6, 0.0); (439820.2, 3763392.5, 226.0, 226.0, 0.0);
(439870.2, 3763392.5, 226.3, 226.3, 0.0); (439170.2, 3763442.5, 225.0, 225.0, 0.0);
(439220.2, 3763442.5, 225.1, 225.1, 0.0); (439270.2, 3763442.5, 224.5, 224.5, 0.0);
(439320.2, 3763442.5, 224.5, 224.5, 0.0); (439370.2,

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3763442.5,     224.6,     224.6,       0.0);
     ( 439420.2, 3763442.5,     224.7,     224.7,       0.0);         ( 439470.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439520.2, 3763442.5,     224.7,     224.7,       0.0);         ( 439570.2,
3763442.5,     224.7,     224.7,       0.0);
     ( 439620.2, 3763442.5,     224.6,     224.6,       0.0);         ( 439670.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439720.2, 3763442.5,     225.4,     225.4,       0.0);         ( 439770.2,
3763442.5,     226.1,     226.1,       0.0);
     ( 439820.2, 3763442.5,     226.5,     226.5,       0.0);         ( 439870.2,
3763442.5,     226.7,     226.7,       0.0);
     ( 439203.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439253.2,
3762911.2,     218.6,     218.6,       0.0);
     ( 439303.2, 3762911.2,     218.7,     218.7,       0.0);         ( 439353.2,
3762911.2,     217.9,     217.9,       0.0);
     ( 439403.2, 3762911.2,     218.0,     218.0,       0.0);         ( 439453.2,
3762911.2,     218.3,     218.3,       0.0);
     ( 439503.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439553.2,
3762911.2,     218.5,     218.5,       0.0);
     ( 439203.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439253.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439303.2, 3762961.2,     219.2,     219.2,       0.0);         ( 439353.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439403.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439453.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439503.2, 3762961.2,     218.7,     218.7,       0.0);         ( 439553.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439203.2, 3763011.2,     219.6,     219.6,       0.0);         ( 439253.2,
3763011.2,     219.7,     219.7,       0.0);
     ( 439303.2, 3763011.2,     219.9,     219.9,       0.0);         ( 439353.2,
3763011.2,     220.0,     220.0,       0.0);
     ( 439403.2, 3763011.2,     219.2,     219.2,       0.0);         ( 439453.2,
3763011.2,     219.4,     219.4,       0.0);
     ( 439503.2, 3763011.2,     219.1,     219.1,       0.0);         ( 439553.2,
3763011.2,     219.5,     219.5,       0.0);
     ( 439203.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439253.2,
3763061.2,     220.5,     220.5,       0.0);
     ( 439303.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439353.2,
3763061.2,     220.8,     220.8,       0.0);
     ( 439403.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439453.2,
3763061.2,     220.4,     220.4,       0.0);
     ( 439503.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439553.2,
3763061.2,     220.3,     220.3,       0.0);
     ( 439196.0, 3762392.5,     212.6,     212.6,       0.0);         ( 439246.0,
3762392.5,     212.7,     212.7,       0.0);
     ( 439296.0, 3762392.5,     212.7,     212.7,       0.0);         ( 439346.0,
3762392.5,     212.6,     212.6,       0.0);
     ( 439396.0, 3762392.5,     212.5,     212.5,       0.0);         ( 439446.0,
3762392.5,     212.2,     212.2,       0.0);
     ( 439496.0, 3762392.5,     212.2,     212.2,       0.0);         ( 439546.0,
3762392.5,     212.5,     212.5,       0.0);
```

```
     ( 439196.0, 3762442.5,     213.1,     213.1,       0.0);         ( 439246.0,
3762442.5,     213.1,     213.1,       0.0);
     ( 439296.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439346.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439396.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439446.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439496.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439546.0,
3762442.5,     213.4,     213.4,       0.0);
     ( 439196.0, 3762492.5,     213.6,     213.6,       0.0);         ( 439246.0,
3762492.5,     213.5,     213.5,       0.0);
     ( 439296.0, 3762492.5,     213.7,     213.7,       0.0);         ( 439346.0,
3762492.5,     214.0,     214.0,       0.0);
     ( 439396.0, 3762492.5,     213.9,     213.9,       0.0);         ( 439446.0,
3762492.5,     213.9,     213.9,       0.0);
     ( 439496.0, 3762492.5,     214.2,     214.2,       0.0);         ( 439546.0,
3762492.5,     214.4,     214.4,       0.0);
     ( 439196.0, 3762542.5,     214.1,     214.1,       0.0);         ( 439246.0,
3762542.5,     213.8,     213.8,       0.0);
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                           ***          04/03/23
 *** AERMET - VERSION  16216 ***   ***
                           ***          22:47:09

                                      PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                  *** DISCRETE CARTESIAN RECEPTORS ***
                                                (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     ( 439296.0, 3762542.5,     214.0,     214.0,       0.0);         ( 439346.0,
3762542.5,     214.0,     214.0,       0.0);
     ( 439396.0, 3762542.5,     214.2,     214.2,       0.0);         ( 439446.0,
3762542.5,     214.2,     214.2,       0.0);
     ( 439496.0, 3762542.5,     214.7,     214.7,       0.0);         ( 439546.0,
3762542.5,     214.7,     214.7,       0.0);
     ( 439196.0, 3762592.5,     214.6,     214.6,       0.0);         ( 439246.0,
3762592.5,     214.8,     214.8,       0.0);
     ( 439296.0, 3762592.5,     214.7,     214.7,       0.0);         ( 439346.0,
3762592.5,     214.4,     214.4,       0.0);
     ( 439396.0, 3762592.5,     214.4,     214.4,       0.0);         ( 439446.0,
3762592.5,     214.5,     214.5,       0.0);
     ( 439496.0, 3762592.5,     215.1,     215.1,       0.0);         ( 439546.0,
3762592.5,     215.2,     215.2,       0.0);
     ( 439196.0, 3762642.5,     215.1,     215.1,       0.0);         ( 439246.0,
3762642.5,     215.4,     215.4,       0.0);
     ( 439296.0, 3762642.5,     214.9,     214.9,       0.0);         ( 439346.0,
3762642.5,     214.4,     214.4,       0.0);
     ( 439396.0, 3762642.5,     214.6,     214.6,       0.0);         ( 439446.0,
3762642.5,     214.8,     214.8,       0.0);
     ( 439496.0, 3762642.5,     215.5,     215.5,       0.0);         ( 439546.0,
```

```
3762642.5,     215.6,     215.6,       0.0);
     ( 439196.0, 3762692.5,     215.8,     215.8,       0.0);         ( 439246.0,
3762692.5,     215.8,     215.8,       0.0);
     ( 439296.0, 3762692.5,     215.9,     215.9,       0.0);         ( 439346.0,
3762692.5,     215.7,     215.7,       0.0);
     ( 439396.0, 3762692.5,     215.1,     215.1,       0.0);         ( 439446.0,
3762692.5,     215.3,     215.3,       0.0);
     ( 439496.0, 3762692.5,     215.9,     215.9,       0.0);         ( 439546.0,
3762692.5,     216.1,     216.1,       0.0);
     ( 439196.0, 3762742.5,     216.5,     216.5,       0.0);         ( 439246.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439296.0, 3762742.5,     216.3,     216.3,       0.0);         ( 439346.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439396.0, 3762742.5,     216.0,     216.0,       0.0);         ( 439446.0,
3762742.5,     216.0,     216.0,       0.0);
     ( 439496.0, 3762742.5,     216.7,     216.7,       0.0);         ( 439546.0,
3762742.5,     216.8,     216.8,       0.0);
     ( 439196.0, 3762792.5,     217.1,     217.1,       0.0);         ( 439246.0,
3762792.5,     216.4,     216.4,       0.0);
     ( 439296.0, 3762792.5,     216.8,     216.8,       0.0);         ( 439346.0,
3762792.5,     216.8,     216.8,       0.0);
     ( 439396.0, 3762792.5,     216.9,     216.9,       0.0);         ( 439446.0,
3762792.5,     216.7,     216.7,       0.0);
     ( 439496.0, 3762792.5,     217.3,     217.3,       0.0);         ( 439546.0,
3762792.5,     217.4,     217.4,       0.0);
     ( 439196.0, 3762842.5,     217.7,     217.7,       0.0);         ( 439246.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439296.0, 3762842.5,     217.0,     217.0,       0.0);         ( 439346.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439396.0, 3762842.5,     217.2,     217.2,       0.0);         ( 439446.0,
3762842.5,     217.3,     217.3,       0.0);
     ( 439496.0, 3762842.5,     217.9,     217.9,       0.0);         ( 439546.0,
3762842.5,     218.0,     218.0,       0.0);
     ( 439573.3, 3762470.5,     213.7,     213.7,       0.0);         ( 439623.3,
3762470.5,     214.1,     214.1,       0.0);
     ( 439673.3, 3762470.5,     214.2,     214.2,       0.0);         ( 439723.3,
3762470.5,     214.3,     214.3,       0.0);
     ( 439773.3, 3762470.5,     214.4,     214.4,       0.0);         ( 439823.3,
3762470.5,     214.4,     214.4,       0.0);
     ( 439873.3, 3762470.5,     214.7,     214.7,       0.0);         ( 439573.3,
3762520.5,     214.3,     214.3,       0.0);
     ( 439623.3, 3762520.5,     214.5,     214.5,       0.0);         ( 439673.3,
3762520.5,     214.8,     214.8,       0.0);
     ( 439723.3, 3762520.5,     215.1,     215.1,       0.0);         ( 439773.3,
3762520.5,     215.1,     215.1,       0.0);
     ( 439823.3, 3762520.5,     214.8,     214.8,       0.0);         ( 439873.3,
3762520.5,     215.2,     215.2,       0.0);
     ( 439573.3, 3762570.5,     214.8,     214.8,       0.0);         ( 439623.3,
3762570.5,     215.0,     215.0,       0.0);
     ( 439673.3, 3762570.5,     215.4,     215.4,       0.0);         ( 439723.3,
3762570.5,     215.5,     215.5,       0.0);
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

```
     ( 439773.3, 3762570.5,     215.5,     215.5,       0.0);         ( 439823.3,
3762570.5,     215.3,     215.3,       0.0);
     ( 439873.3, 3762570.5,     215.9,     215.9,       0.0);         ( 439573.3,
3762620.5,     215.3,     215.3,       0.0);
     ( 439623.3, 3762620.5,     215.6,     215.6,       0.0);         ( 439673.3,
3762620.5,     215.7,     215.7,       0.0);
     ( 439723.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439773.3,
3762620.5,     215.8,     215.8,       0.0);
     ( 439823.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439873.3,
3762620.5,     216.5,     216.5,       0.0);
     ( 439573.3, 3762670.5,     215.8,     215.8,       0.0);         ( 439623.3,
3762670.5,     216.5,     216.5,       0.0);
     ( 439673.3, 3762670.5,     216.5,     216.5,       0.0);         ( 439723.3,
3762670.5,     216.6,     216.6,       0.0);
     ( 439773.3, 3762670.5,     216.8,     216.8,       0.0);         ( 439823.3,
3762670.5,     216.9,     216.9,       0.0);
     ( 439873.3, 3762670.5,     217.1,     217.1,       0.0);         ( 439152.3,
3761448.9,     203.3,     203.3,       0.0);
     ( 439202.3, 3761448.9,     202.5,     202.5,       0.0);         ( 439252.3,
3761448.9,     202.5,     202.5,       0.0);
     ( 439302.3, 3761448.9,     202.4,     202.4,       0.0);         ( 439352.3,
3761448.9,     202.5,     202.5,       0.0);
     ( 439402.3, 3761448.9,     202.6,     202.6,       0.0);         ( 439452.3,
3761448.9,     202.6,     202.6,       0.0);
     ( 439502.3, 3761448.9,     203.1,     203.1,       0.0);         ( 439552.3,
3761448.9,     203.1,     203.1,       0.0);
     ( 439152.3, 3761498.9,     204.0,     204.0,       0.0);         ( 439202.3,
3761498.9,     203.9,     203.9,       0.0);
     ( 439252.3, 3761498.9,     204.3,     204.3,       0.0);         ( 439302.3,
3761498.9,     203.6,     203.6,       0.0);
     ( 439352.3, 3761498.9,     203.2,     203.2,       0.0);         ( 439402.3,
3761498.9,     202.9,     202.9,       0.0);
     ( 439452.3, 3761498.9,     202.7,     202.7,       0.0);         ( 439502.3,
3761498.9,     203.3,     203.3,       0.0);
     ( 439552.3, 3761498.9,     203.5,     203.5,       0.0);         ( 439152.3,
3761548.9,     204.7,     204.7,       0.0);
     ( 439202.3, 3761548.9,     204.3,     204.3,       0.0);         ( 439252.3,
3761548.9,     204.4,     204.4,       0.0);
     ( 439302.3, 3761548.9,     203.7,     203.7,       0.0);         ( 439352.3,
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3761548.9,     203.0,     203.0,       0.0);
     ( 439402.3, 3761548.9,     203.1,     203.1,       0.0);         ( 439452.3,
3761548.9,     203.0,     203.0,       0.0);
     ( 439502.3, 3761548.9,     203.2,     203.2,       0.0);         ( 439552.3,
3761548.9,     203.6,     203.6,       0.0);
     ( 439152.3, 3761598.9,     205.2,     205.2,       0.0);         ( 439202.3,
3761598.9,     204.5,     204.5,       0.0);
     ( 439252.3, 3761598.9,     204.5,     204.5,       0.0);         ( 439302.3,
3761598.9,     204.2,     204.2,       0.0);
     ( 439352.3, 3761598.9,     203.5,     203.5,       0.0);         ( 439402.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439452.3, 3761598.9,     203.8,     203.8,       0.0);         ( 439502.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439552.3, 3761598.9,     204.0,     204.0,       0.0);         ( 439152.3,
3761648.9,     205.5,     205.5,       0.0);
     ( 439202.3, 3761648.9,     205.1,     205.1,       0.0);         ( 439252.3,
3761648.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761648.9,     204.9,     204.9,       0.0);         ( 439352.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439402.3, 3761648.9,     204.5,     204.5,       0.0);         ( 439452.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439502.3, 3761648.9,     204.7,     204.7,       0.0);         ( 439552.3,
3761648.9,     204.9,     204.9,       0.0);
     ( 439152.3, 3761698.9,     206.0,     206.0,       0.0);         ( 439202.3,
3761698.9,     205.4,     205.4,       0.0);
     ( 439252.3, 3761698.9,     204.9,     204.9,       0.0);         ( 439302.3,
3761698.9,     205.0,     205.0,       0.0);
     ( 439352.3, 3761698.9,     205.2,     205.2,       0.0);         ( 439402.3,
3761698.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761698.9,     204.8,     204.8,       0.0);         ( 439502.3,
3761698.9,     205.3,     205.3,       0.0);
     ( 439552.3, 3761698.9,     205.7,     205.7,       0.0);         ( 439152.3,
3761748.9,     206.1,     206.1,       0.0);
     ( 439202.3, 3761748.9,     205.8,     205.8,       0.0);         ( 439252.3,
3761748.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761748.9,     205.2,     205.2,       0.0);         ( 439352.3,
3761748.9,     205.2,     205.2,       0.0);
     ( 439402.3, 3761748.9,     205.4,     205.4,       0.0);         ( 439452.3,
3761748.9,     205.1,     205.1,       0.0);
     ( 439502.3, 3761748.9,     204.8,     204.8,       0.0);         ( 439552.3,
3761748.9,     205.5,     205.5,       0.0);
     ( 439152.3, 3761798.9,     206.4,     206.4,       0.0);         ( 439202.3,
3761798.9,     206.4,     206.4,       0.0);
     ( 439252.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439302.3,
3761798.9,     206.2,     206.2,       0.0);
     ( 439352.3, 3761798.9,     205.6,     205.6,       0.0);         ( 439402.3,
3761798.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439502.3,
3761798.9,     205.2,     205.2,       0.0);
     ( 439552.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439152.3,
3761848.9,     206.9,     206.9,       0.0);
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439202.3, 3761948.9, 207.6, 207.6, 0.0); (439252.3, 3761948.9, 206.9, 206.9, 0.0);
(439302.3, 3761948.9, 207.6, 207.6, 0.0); (439352.3, 3761948.9, 207.7, 207.7, 0.0);
(439402.3, 3761948.9, 207.3, 207.3, 0.0); (439452.3, 3761948.9, 208.1, 208.1, 0.0);
(439502.3, 3761948.9, 208.5, 208.5, 0.0); (439552.3, 3761948.9, 208.8, 208.8, 0.0);
(439152.3, 3761998.9, 208.6, 208.6, 0.0); (439202.3, 3761998.9, 207.9, 207.9, 0.0);
(439252.3, 3761998.9, 207.2, 207.2, 0.0); (439302.3, 3761998.9, 208.0, 208.0, 0.0);
(439352.3, 3761998.9, 208.5, 208.5, 0.0); (439402.3, 3761998.9, 208.0, 208.0, 0.0);
(439452.3, 3761998.9, 208.2, 208.2, 0.0); (439502.3, 3761998.9, 208.5, 208.5, 0.0);
(439552.3, 3761998.9, 208.9, 208.9, 0.0); (439152.3, 3762048.9, 209.2, 209.2, 0.0);
(439202.3, 3762048.9, 209.1, 209.1, 0.0); (439252.3, 3762048.9, 209.0, 209.0, 0.0);
(439302.3, 3762048.9, 209.0, 209.0, 0.0); (439352.3,

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3762048.9,     209.0,     209.0,       0.0);
     ( 439402.3, 3762048.9,     208.7,     208.7,       0.0);         ( 439452.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439502.3, 3762048.9,     209.2,     209.2,       0.0);         ( 439552.3,
3762048.9,     209.4,     209.4,       0.0);
     ( 439616.6, 3761420.6,     202.8,     202.8,       0.0);         ( 439666.6,
3761420.6,     203.2,     203.2,       0.0);
     ( 439716.6, 3761420.6,     203.4,     203.4,       0.0);         ( 439766.6,
3761420.6,     203.6,     203.6,       0.0);
     ( 439816.6, 3761420.6,     203.5,     203.5,       0.0);         ( 439866.6,
3761420.6,     203.8,     203.8,       0.0);
     ( 439616.6, 3761470.6,     203.2,     203.2,       0.0);         ( 439666.6,
3761470.6,     203.4,     203.4,       0.0);
     ( 439716.6, 3761470.6,     203.6,     203.6,       0.0);         ( 439766.6,
3761470.6,     203.8,     203.8,       0.0);
     ( 439816.6, 3761470.6,     203.7,     203.7,       0.0);         ( 439866.6,
3761470.6,     204.3,     204.3,       0.0);
     ( 439616.6, 3761520.6,     203.5,     203.5,       0.0);         ( 439666.6,
3761520.6,     203.7,     203.7,       0.0);
     ( 439716.6, 3761520.6,     204.0,     204.0,       0.0);         ( 439766.6,
3761520.6,     204.4,     204.4,       0.0);
     ( 439816.6, 3761520.6,     204.5,     204.5,       0.0);         ( 439866.6,
3761520.6,     204.9,     204.9,       0.0);
     ( 439616.6, 3761570.6,     204.1,     204.1,       0.0);         ( 439666.6,
3761570.6,     204.4,     204.4,       0.0);
     ( 439716.6, 3761570.6,     204.7,     204.7,       0.0);         ( 439766.6,
3761570.6,     205.2,     205.2,       0.0);
     ( 439816.6, 3761570.6,     205.4,     205.4,       0.0);         ( 439866.6,
3761570.6,     205.5,     205.5,       0.0);
     ( 440451.1, 3762893.8,     220.7,     220.7,       0.0);         ( 440501.1,
3762893.8,     220.6,     220.6,       0.0);
     ( 440551.1, 3762893.8,     220.3,     220.3,       0.0);         ( 440601.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440651.1, 3762893.8,     220.5,     220.5,       0.0);         ( 440701.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440751.1, 3762893.8,     220.2,     220.2,       0.0);         ( 440801.1,
3762893.8,     220.2,     220.2,       0.0);
     ( 440851.1, 3762893.8,     219.8,     219.8,       0.0);         ( 440451.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 440501.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440551.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440601.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440651.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440701.1, 3762943.8,     221.0,     221.0,       0.0);         ( 440751.1,
3762943.8,     220.5,     220.5,       0.0);
     ( 440801.1, 3762943.8,     220.8,     220.8,       0.0);         ( 440851.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 441116.7, 3763135.3,     223.3,     223.3,       0.0);         ( 441166.7,
3763135.3,     222.9,     222.9,       0.0);
     ( 441116.7, 3763185.3,     223.9,     223.9,       0.0);         ( 441166.7,
3763185.3,     223.5,     223.5,       0.0);
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(440833.4, 3762815.1, 219.4, 219.4, 0.0); (440883.4, 3762815.1, 219.5, 219.5, 0.0);
(440933.4, 3762815.1, 219.0, 219.0, 0.0); (440983.4, 3762815.1, 218.8, 218.8, 0.0);
(440433.4, 3762865.1, 220.3, 220.3, 0.0); (440483.4, 3762865.1, 220.1, 220.1, 0.0);
(440533.4, 3762865.1, 219.9, 219.9, 0.0); (440583.4, 3762865.1, 219.9, 219.9, 0.0);
(440633.4, 3762865.1, 220.0, 220.0, 0.0); (440683.4, 3762865.1, 219.9, 219.9, 0.0);
(440733.4, 3762865.1, 220.0, 220.0, 0.0); (440783.4, 3762865.1, 219.9, 219.9, 0.0);
(440833.4, 3762865.1, 219.6, 219.6, 0.0); (440883.4, 3762865.1, 219.3, 219.3, 0.0);
(440933.4, 3762865.1, 219.0, 219.0, 0.0); (440983.4, 3762865.1, 218.9, 218.9, 0.0);
(441118.3, 3762686.0, 217.2, 217.2, 0.0); (441168.3, 3762686.0, 217.0, 217.0, 0.0);
(441118.3, 3762736.0, 218.2, 218.2, 0.0); (441168.3, 3762736.0, 217.5, 217.5, 0.0);
(441118.3, 3762786.0, 218.3, 218.3, 0.0); (441168.3,

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3762786.0,     218.0,     218.0,       0.0);
     ( 441118.3, 3762836.0,     218.4,     218.4,       0.0);         ( 441168.3,
3762836.0,     218.3,     218.3,       0.0);
     ( 440411.7, 3762093.4,     211.8,     211.8,       0.0);         ( 440461.7,
3762093.4,     211.7,     211.7,       0.0);
     ( 440511.7, 3762093.4,     211.8,     211.8,       0.0);         ( 440561.7,
3762093.4,     211.8,     211.8,       0.0);
     ( 440611.7, 3762093.4,     211.6,     211.6,       0.0);         ( 440411.7,
3762143.4,     212.7,     212.7,       0.0);
     ( 440461.7, 3762143.4,     212.3,     212.3,       0.0);         ( 440511.7,
3762143.4,     212.5,     212.5,       0.0);
     ( 440561.7, 3762143.4,     212.2,     212.2,       0.0);         ( 440611.7,
3762143.4,     212.4,     212.4,       0.0);
     ( 440406.6, 3762008.9,     210.5,     210.5,       0.0);         ( 440456.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440506.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440556.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440606.6, 3762008.9,     210.7,     210.7,       0.0);         ( 440656.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440706.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440756.6,
3762008.9,     211.0,     211.0,       0.0);
     ( 440806.6, 3762008.9,     210.4,     210.4,       0.0);         ( 440856.6,
3762008.9,     210.6,     210.6,       0.0);
     ( 440906.6, 3762008.9,     211.3,     211.3,       0.0);         ( 440956.6,
3762008.9,     211.2,     211.2,       0.0);
     ( 441006.6, 3762008.9,     211.1,     211.1,       0.0);         ( 441056.6,
3762008.9,     210.5,     210.5,       0.0);
     ( 441106.6, 3762008.9,     210.4,     210.4,       0.0);         ( 441156.6,
3762008.9,     210.4,     210.4,       0.0);
     ( 440406.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440456.6,
3762058.9,     211.2,     211.2,       0.0);
     ( 440506.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440556.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 440606.6, 3762058.9,     211.2,     211.2,       0.0);         ( 440656.6,
3762058.9,     211.4,     211.4,       0.0);
     ( 440706.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440756.6,
3762058.9,     212.0,     212.0,       0.0);
     ( 440806.6, 3762058.9,     211.4,     211.4,       0.0);         ( 440856.6,
3762058.9,     211.5,     211.5,       0.0);
     ( 440906.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440956.6,
3762058.9,     211.7,     211.7,       0.0);
     ( 441006.6, 3762058.9,     211.5,     211.5,       0.0);         ( 441056.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 441106.6, 3762058.9,     211.1,     211.1,       0.0);         ( 441156.6,
3762058.9,     211.1,     211.1,       0.0);
     ( 440191.4, 3762138.4,     211.5,     211.5,       0.0);         ( 440241.4,
3762138.4,     211.7,     211.7,       0.0);
     ( 440291.4, 3762138.4,     212.0,     212.0,       0.0);         ( 440341.4,
3762138.4,     211.6,     211.6,       0.0);
     ( 440191.4, 3762188.4,     212.6,     212.6,       0.0);         ( 440241.4,
3762188.4,     211.8,     211.8,       0.0);
```

* SOURCE-RECEPTOR COMBINATIONS FOR WHICH CALCULATIONS MAY NOT BE PERFORMED *
LESS THAN 1.0 METER; WITHIN OPENPIT; OR BEYOND 80KM FOR FASTAREA/FASTALL

SOURCE ID	- - RECEPTOR LOCATION - - XR (METERS)	YR (METERS)	DISTANCE (METERS)
L0012731	439873.3	3762670.5	-2.78
L0012733	439873.3	3762620.5	-2.54
L0012735	439873.3	3762570.5	-1.66
L0012737	439873.3	3762520.5	-0.20
L0012738	439873.3	3762470.5	0.84

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***
(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

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           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN

```
ALBEDO  REF WS   WD     HT  REF TA     HT
- - - -
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN ***
                                  INCLUDING SOURCE(S):   L0013092   , L0013093
, L0013094   , L0013095   , L0013096   ,
                 L0013097   , L0013098   , L0013099   , L0013100   , L0013101
, L0013102   , L0013103   , L0013104   ,
                 L0013105   , L0013106   , L0013107   , L0013108   , L0013109
, L0013110   , L0013111   , L0013112   ,
                 L0013113   , L0013114   , L0013115   , L0013116   , L0013117
, L0013118   , L0013119   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         440407.86   3761497.84   0.96271   439943.36
3761716.33   1.53963
         439170.17   3763092.51   0.96577   439220.17
3763092.51   1.02499
         439270.17   3763092.51   1.10241   439320.17
3763092.51   1.18295
         439370.17   3763092.51   1.27606   439420.17
3763092.51   1.38452
         439470.17   3763092.51   1.51432   439520.17
3763092.51   1.64838
         439570.17   3763092.51   1.79826   439620.17
3763092.51   1.94965
         439670.17   3763092.51   2.12235   439720.17
3763092.51   2.32408
         439770.17   3763092.51   2.55362   439820.17

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3763092.51        2.79414
         439870.17    3763092.51        3.04907                   439170.17
3763142.51        0.91874
         439220.17    3763142.51        0.97779                   439270.17
3763142.51        1.04875
         439320.17    3763142.51        1.12106                   439370.17
3763142.51        1.20511
         439420.17    3763142.51        1.30238                   439470.17
3763142.51        1.40160
         439520.17    3763142.51        1.51209                   439570.17
3763142.51        1.64442
         439620.17    3763142.51        1.78303                   439670.17
3763142.51        1.92010
         439720.17    3763142.51        2.06946                   439770.17
3763142.51        2.23205
         439820.17    3763142.51        2.40252                   439870.17
3763142.51        2.58374
         439170.17    3763192.51        0.87694                   439220.17
3763192.51        0.93151
         439270.17    3763192.51        0.99718                   439320.17
3763192.51        1.05797
         439370.17    3763192.51        1.13421                   439420.17
3763192.51        1.22252
         439470.17    3763192.51        1.30525                   439520.17
3763192.51        1.40168
         439570.17    3763192.51        1.50877                   439620.17
3763192.51        1.62622
         439670.17    3763192.51        1.71996                   439720.17
3763192.51        1.81680
         439770.17    3763192.51        1.93512                   439820.17
3763192.51        2.06706
         439870.17    3763192.51        2.19918                   439170.17
3763242.51        0.83283
         439220.17    3763242.51        0.88376                   439270.17
3763242.51        0.94279
         439320.17    3763242.51        1.00198                   439370.17
3763242.51        1.06858
         439420.17    3763242.51        1.14072                   439470.17
3763242.51        1.20775
         439520.17    3763242.51        1.28888                   439570.17
3763242.51        1.38000
         439620.17    3763242.51        1.47833                   439670.17
3763242.51        1.55250
         439720.17    3763242.51        1.62733                   439770.17
3763242.51        1.70816
         439820.17    3763242.51        1.73383                   439870.17
3763242.51        1.80003
         439170.17    3763292.51        0.77994                   439220.17
3763292.51        0.81455
         439270.17    3763292.51        0.86356                   439320.17
3763292.51        0.92183
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         439370.17    3763292.51        0.99187                       439420.17
3763292.51        1.04024
         439470.17    3763292.51        1.09789                       439520.17
3763292.51        1.16000
         439570.17    3763292.51        1.24806                       439620.17
3763292.51        1.32059
         439670.17    3763292.51        1.39469                       439720.17
3763292.51        1.44888
         439770.17    3763292.51        1.42272                       439820.17
3763292.51        1.47666
         439870.17    3763292.51        1.54169                       439170.17
3763342.51        0.73317
         439220.17    3763342.51        0.76330                       439270.17
3763342.51        0.81837
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***         04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***         22:47:09

                                   PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
                                   INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439320.17    3763342.51        0.86610                       439370.17
3763342.51        0.92413
         439420.17    3763342.51        0.96982                       439470.17
3763342.51        1.01629
         439520.17    3763342.51        1.06552                       439570.17
3763342.51        1.13338
         439620.17    3763342.51        1.20412                       439670.17
3763342.51        1.25559
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         439720.17    3763342.51        1.25491                    439770.17
3763342.51        1.25268
         439820.17    3763342.51        1.28842                    439870.17
3763342.51        1.33178
         439170.17    3763392.51        0.67485                    439220.17
3763392.51        0.70009
         439270.17    3763392.51        0.76734                    439320.17
3763392.51        0.78668
         439370.17    3763392.51        0.84627                    439420.17
3763392.51        0.85700
         439470.17    3763392.51        0.88937                    439520.17
3763392.51        0.95389
         439570.17    3763392.51        1.01902                    439620.17
3763392.51        1.08934
         439670.17    3763392.51        1.08440                    439720.17
3763392.51        1.11697
         439770.17    3763392.51        1.12122                    439820.17
3763392.51        1.14619
         439870.17    3763392.51        1.17430                    439170.17
3763442.51        0.62462
         439220.17    3763442.51        0.65198                    439270.17
3763442.51        0.69810
         439320.17    3763442.51        0.73039                    439370.17
3763442.51        0.76015
         439420.17    3763442.51        0.79454                    439470.17
3763442.51        0.82061
         439520.17    3763442.51        0.87018                    439570.17
3763442.51        0.90751
         439620.17    3763442.51        0.94967                    439670.17
3763442.51        0.97173
         439720.17    3763442.51        0.99289                    439770.17
3763442.51        1.00396
         439820.17    3763442.51        1.02306                    439870.17
3763442.51        1.04651
         439203.20    3762911.16        1.18411                    439253.20
3762911.16        1.28145
         439303.20    3762911.16        1.39582                    439353.20
3762911.16        1.53696
         439403.20    3762911.16        1.68929                    439453.20
3762911.16        1.86581
         439503.20    3762911.16        2.07392                    439553.20
3762911.16        2.31346
         439203.20    3762961.16        1.13854                    439253.20
3762961.16        1.22896
         439303.20    3762961.16        1.33095                    439353.20
3762961.16        1.45529
         439403.20    3762961.16        1.59967                    439453.20
3762961.16        1.75242
         439503.20    3762961.16        1.94476                    439553.20
3762961.16        2.15173
         439203.20    3763011.16        1.08858                    439253.20
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3763011.16        1.17164
         439303.20    3763011.16        1.26577                      439353.20
3763011.16        1.37082
         439403.20    3763011.16        1.51102                      439453.20
3763011.16        1.64892
         439503.20    3763011.16        1.81737                      439553.20
3763011.16        1.99659
         439203.20    3763061.16        1.03752                      439253.20
3763061.16        1.10978
         439303.20    3763061.16        1.19067                      439353.20
3763061.16        1.28546
         439403.20    3763061.16        1.39693                      439453.20
3763061.16        1.52921
         439503.20    3763061.16        1.67823                      439553.20
3763061.16        1.83149
         439196.01    3762392.48        1.32824                      439246.01
3762392.48        1.45736
         439296.01    3762392.48        1.60756                      439346.01
3762392.48        1.78439
         439396.01    3762392.48        1.99469                      439446.01
3762392.48        2.24717
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       22:47:09

                                    PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
                                    INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439496.01    3762392.48        2.55929                      439546.01
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3762392.48        2.95141
         439196.01    3762442.48        1.33994                    439246.01
3762442.48        1.47134
         439296.01    3762442.48        1.62606                    439346.01
3762442.48        1.80746
         439396.01    3762442.48        2.02414                    439446.01
3762442.48        2.28665
         439496.01    3762442.48        2.60867                    439546.01
3762442.48        3.01187
         439196.01    3762492.48        1.34559                    439246.01
3762492.48        1.47792
         439296.01    3762492.48        1.63383                    439346.01
3762492.48        1.81796
         439396.01    3762492.48        2.03684                    439446.01
3762492.48        2.30160
         439496.01    3762492.48        2.62927                    439546.01
3762492.48        3.03793
         439196.01    3762542.48        1.34539                    439246.01
3762542.48        1.47739
         439296.01    3762542.48        1.63281                    439346.01
3762542.48        1.81571
         439396.01    3762542.48        2.03481                    439446.01
3762542.48        2.29896
         439496.01    3762542.48        2.62506                    439546.01
3762542.48        3.02870
         439196.01    3762592.48        1.33911                    439246.01
3762592.48        1.47099
         439296.01    3762592.48        1.62429                    439346.01
3762592.48        1.80442
         439396.01    3762592.48        2.01931                    439446.01
3762592.48        2.27916
         439496.01    3762592.48        2.59868                    439546.01
3762592.48        2.99165
         439196.01    3762642.48        1.32692                    439246.01
3762642.48        1.45644
         439296.01    3762642.48        1.60580                    439346.01
3762642.48        1.78111
         439396.01    3762642.48        1.99106                    439446.01
3762642.48        2.24331
         439496.01    3762642.48        2.55164                    439546.01
3762642.48        2.92905
         439196.01    3762692.48        1.30894                    439246.01
3762692.48        1.43452
         439296.01    3762692.48        1.58059                    439346.01
3762692.48        1.75110
         439396.01    3762692.48        1.95146                    439446.01
3762692.48        2.19291
         439496.01    3762692.48        2.48654                    439546.01
3762692.48        2.84401
         439196.01    3762742.48        1.28560                    439246.01
3762742.48        1.40622
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         439296.01    3762742.48        1.54647                      439346.01
3762742.48        1.70953
         439396.01    3762742.48        1.90147                      439446.01
3762742.48        2.12978
         439496.01    3762742.48        2.40565                      439546.01
3762742.48        2.73940
         439196.01    3762792.48        1.25743                      439246.01
3762792.48        1.37242
         439296.01    3762792.48        1.50592                      439346.01
3762792.48        1.66061
         439396.01    3762792.48        1.84153                      439446.01
3762792.48        2.05484
         439496.01    3762792.48        2.30977                      439546.01
3762792.48        2.61380
         439196.01    3762842.48        1.22223                      439246.01
3762842.48        1.33444
         439296.01    3762842.48        1.45995                      439346.01
3762842.48        1.60487
         439396.01    3762842.48        1.77293                      439446.01
3762842.48        1.97043
         439496.01    3762842.48        2.19867                      439546.01
3762842.48        2.47598
         439573.31    3762470.54        3.29602                      439623.31
3762470.54        3.90251
         439673.31    3762470.54        4.71510                      439723.31
3762470.54        5.85377
         439773.31    3762470.54        7.56054                      439823.31
3762470.54       10.36298
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:47:09

                                   PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
                                   INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	15.50182	439573.31	3762520.54	3.30072
439623.31	3762520.54	3.89831	439673.31	3762520.54	4.69260
439723.31	3762520.54	5.78314	439773.31	3762520.54	7.34859
439823.31	3762520.54	9.75147	439873.31	3762520.54	14.24491
439573.31	3762570.54	3.26976	439623.31	3762570.54	3.84908
439673.31	3762570.54	4.60793	439723.31	3762570.54	5.62564
439773.31	3762570.54	7.03667	439823.31	3762570.54	9.08797
439873.31	3762570.54	12.40760	439573.31	3762620.54	3.20828
439623.31	3762620.54	3.76079	439673.31	3762620.54	4.47402
439723.31	3762620.54	5.41764	439773.31	3762620.54	6.69295
439823.31	3762620.54	8.47621	439873.31	3762620.54	11.06304
439573.31	3762670.54	3.11987	439623.31	3762670.54	3.64225
439673.31	3762670.54	4.30721	439723.31	3762670.54	5.17851
439773.31	3762670.54	6.35350	439823.31	3762670.54	7.98706
439873.31	3762670.54	10.36994	439152.35	3761448.92	0.63999
439202.35	3761448.92	0.66072	439252.35	3761448.92	0.68329
439302.35	3761448.92	0.70617	439352.35	3761448.92	0.72953
439402.35	3761448.92	0.75320	439452.35	3761448.92	0.77689
439502.35	3761448.92	0.80175	439552.35	3761448.92	0.82524
439152.35	3761498.92	0.67015	439202.35	3761498.92	0.69491
439252.35	3761498.92	0.72147	439302.35	3761498.92	0.74576
439352.35	3761498.92	0.77104	439402.35	3761498.92	0.79696
439452.35	3761498.92	0.82319	439502.35		

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3761498.92        0.85163
         439552.35    3761498.92        0.87894                        439152.35
3761548.92        0.70160
         439202.35    3761548.92        0.72908                        439252.35
3761548.92        0.75811
         439302.35    3761548.92        0.78569                        439352.35
3761548.92        0.81355
         439402.35    3761548.92        0.84379                        439452.35
3761548.92        0.87423
         439502.35    3761548.92        0.90533                        439552.35
3761548.92        0.93733
         439152.35    3761598.92        0.73421                        439202.35
3761598.92        0.76430
         439252.35    3761598.92        0.79663                        439302.35
3761598.92        0.82923
         439352.35    3761598.92        0.86092                        439402.35
3761598.92        0.89579
         439452.35    3761598.92        0.93143                        439502.35
3761598.92        0.96609
         439552.35    3761598.92        1.00330                        439152.35
3761648.92        0.76747
         439202.35    3761648.92        0.80186                        439252.35
3761648.92        0.83848
         439302.35    3761648.92        0.87602                        439352.35
3761648.92        0.91349
         439402.35    3761648.92        0.95335                        439452.35
3761648.92        0.99365
         439502.35    3761648.92        1.03566                        439552.35
3761648.92        1.07808
         439152.35    3761698.92        0.80194                        439202.35
3761698.92        0.84023
         439252.35    3761698.92        0.88022                        439302.35
3761698.92        0.92348
         439352.35    3761698.92        0.96865                        439402.35
3761698.92        1.01586
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      22:47:09

                                   PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
                                   INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
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L0013113 , L0013114 , L0013115 , L0013116 , L0013117
, L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.06016	439502.35	3761698.92	1.11030
439552.35	3761698.92	1.16082	439152.35	3761748.92	0.83661
439202.35	3761748.92	0.88025	439252.35	3761748.92	0.92441
439302.35	3761748.92	0.97393	439352.35	3761748.92	1.02498
439402.35	3761748.92	1.07855	439452.35	3761748.92	1.13236
439502.35	3761748.92	1.18721	439552.35	3761748.92	1.24809
439152.35	3761798.92	0.87219	439202.35	3761798.92	0.92160
439252.35	3761798.92	0.97264	439302.35	3761798.92	1.02922
439352.35	3761798.92	1.08543	439402.35	3761798.92	1.14643
439452.35	3761798.92	1.21260	439502.35	3761798.92	1.27553
439552.35	3761798.92	1.34815	439152.35	3761848.92	0.90855
439202.35	3761848.92	0.96308	439252.35	3761848.92	1.01983
439302.35	3761848.92	1.08280	439352.35	3761848.92	1.14737
439402.35	3761848.92	1.22152	439452.35	3761848.92	1.29685
439502.35	3761848.92	1.37152	439552.35	3761848.92	1.45857
439152.35	3761898.92	0.94578	439202.35	3761898.92	1.00536
439252.35	3761898.92	1.06861	439302.35	3761898.92	1.14166
439352.35	3761898.92	1.21720	439402.35	3761898.92	1.29888
439452.35	3761898.92	1.39085	439502.35	3761898.92	1.48538

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         439552.35    3761898.92        1.58618                        439152.35
3761948.92        0.98234
         439202.35    3761948.92        1.04748                        439252.35
3761948.92        1.11746
         439302.35    3761948.92        1.19991                        439352.35
3761948.92        1.28731
         439402.35    3761948.92        1.38038                        439452.35
3761948.92        1.48796
         439502.35    3761948.92        1.60263                        439552.35
3761948.92        1.72572
         439152.35    3761998.92        1.01842                        439202.35
3761998.92        1.08893
         439252.35    3761998.92        1.16611                        439302.35
3761998.92        1.25810
         439352.35    3761998.92        1.35844                        439402.35
3761998.92        1.46419
         439452.35    3761998.92        1.58567                        439502.35
3761998.92        1.71986
         439552.35    3761998.92        1.86923                        439152.35
3762048.92        1.05367
         439202.35    3762048.92        1.13261                        439252.35
3762048.92        1.22024
         439302.35    3762048.92        1.31852                        439352.35
3762048.92        1.42841
         439402.35    3762048.92        1.55033                        439452.35
3762048.92        1.69035
         439502.35    3762048.92        1.84771                        439552.35
3762048.92        2.02478
         439616.61    3761420.65        0.82412                        439666.61
3761420.65        0.84546
         439716.61    3761420.65        0.86524                        439766.61
3761420.65        0.88332
         439816.61    3761420.65        0.89841                        439866.61
3761420.65        0.91268
         439616.61    3761470.65        0.87895                        439666.61
3761470.65        0.90290
         439716.61    3761470.65        0.92577                        439766.61
3761470.65        0.94680
         439816.61    3761470.65        0.96459                        439866.61
3761470.65        0.98183
         439616.61    3761520.65        0.93960                        439666.61
3761520.65        0.96752
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***         04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:47:09

                                  PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: P1ONRUN ***
                                  INCLUDING SOURCE(S):   L0013092   , L0013093
, L0013094   , L0013095   , L0013096   ,
                  L0013097   , L0013098   , L0013099   , L0013100   , L0013101
, L0013102   , L0013103   , L0013104   ,
                  L0013105   , L0013106   , L0013107   , L0013108   , L0013109
, L0013110   , L0013111   , L0013112   ,
                  L0013113   , L0013114   , L0013115   , L0013116   , L0013117
, L0013118   , L0013119   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439716.61   3761520.65   0.99418   439766.61
3761520.65   1.01973
         439816.61   3761520.65   1.04113   439866.61
3761520.65   1.06086
         439616.61   3761570.65   1.00816   439666.61
3761570.65   1.04068
         439716.61   3761570.65   1.07217   439766.61
3761570.65   1.10239
         439816.61   3761570.65   1.12877   439866.61
3761570.65   1.15083
         440451.14   3762893.83   9.44883   440501.14
3762893.83   8.25137
         440551.14   3762893.83   7.27709   440601.14
3762893.83   6.46176
         440651.14   3762893.83   5.77184   440701.14
3762893.83   5.17842
         440751.14   3762893.83   4.66456   440801.14
3762893.83   4.21609
         440851.14   3762893.83   3.82333   440451.14
3762943.83   7.55488
         440501.14   3762943.83   6.77929   440551.14
3762943.83   6.12454
         440601.14   3762943.83   5.55093   440651.14
3762943.83   5.05532
         440701.14   3762943.83   4.61621   440751.14
3762943.83   4.22491
         440801.14   3762943.83   3.87102   440851.14
3762943.83   3.55329
         441116.67   3763135.31   1.88214   441166.67
3763135.31   1.79192
         441116.67   3763185.31   1.74261   441166.67

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3763185.31        1.66953
         441116.67    3763235.31        1.61143                    441166.67
3763235.31        1.54658
         441116.67    3763285.31        1.48476                    441166.67
3763285.31        1.43960
         441116.67    3763335.31        1.35002                    441166.67
3763335.31        1.32196
         441116.67    3763385.31        1.22277                    441166.67
3763385.31        1.20447
         441116.67    3763435.31        1.10507                    441166.67
3763435.31        1.09457
         440433.43    3762815.13       13.99045                    440483.43
3762815.13       11.56541
         440533.43    3762815.13        9.74823                    440583.43
3762815.13        8.31357
         440633.43    3762815.13        7.16191                    440683.43
3762815.13        6.22973
         440733.43    3762815.13        5.46918                    440783.43
3762815.13        4.84226
         440833.43    3762815.13        4.32117                    440883.43
3762815.13        3.88272
         440933.43    3762815.13        3.50722                    440983.43
3762815.13        3.18532
         440433.43    3762865.13       11.33296                    440483.43
3762865.13        9.66697
         440533.43    3762865.13        8.37127                    440583.43
3762865.13        7.32106
         440633.43    3762865.13        6.44883                    440683.43
3762865.13        5.71479
         440733.43    3762865.13        5.09180                    440783.43
3762865.13        4.56024
         440833.43    3762865.13        4.10453                    440883.43
3762865.13        3.71439
         440933.43    3762865.13        3.37493                    440983.43
3762865.13        3.08239
         441118.27    3762686.02        2.54889                    441168.27
3762686.02        2.34894
         441118.27    3762736.02        2.56243                    441168.27
3762736.02        2.35919
         441118.27    3762786.02        2.54184                    441168.27
3762786.02        2.34509
         441118.27    3762836.02        2.49500                    441168.27
3762836.02        2.30736
         440411.67    3762093.41        3.13887                    440461.67
3762093.41        2.92671
         440511.67    3762093.41        2.73360                    440561.67
3762093.41        2.55412
         440611.67    3762093.41        2.38796                    440411.67
3762143.41        3.64911
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***       04/03/23
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***

INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 , L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 , L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 , L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	3.36654	440511.67	3762143.41	3.11588
440561.67	3762143.41	2.88503	440611.67	3762143.41	2.68009
440406.61	3762008.86	2.50366	440456.61	3762008.86	2.36777
440506.61	3762008.86	2.23734	440556.61	3762008.86	2.11281
440606.61	3762008.86	1.99659	440656.61	3762008.86	1.88808
440706.61	3762008.86	1.78752	440756.61	3762008.86	1.69439
440806.61	3762008.86	1.60413	440856.61	3762008.86	1.52518
440906.61	3762008.86	1.45417	440956.61	3762008.86	1.38516
441006.61	3762008.86	1.32142	441056.61	3762008.86	1.26068
441106.61	3762008.86	1.20563	441156.61	3762008.86	1.15464
440406.61	3762058.86	2.86371	440456.61	3762058.86	2.68655
440506.61	3762058.86	2.52199	440556.61	3762058.86	2.36826

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         440606.61    3762058.86        2.22471                      440656.61
3762058.86        2.09342
         440706.61    3762058.86        1.97390                      440756.61
3762058.86        1.86270
         440806.61    3762058.86        1.75727                      440856.61
3762058.86        1.66416
         440906.61    3762058.86        1.57960                      440956.61
3762058.86        1.50009
         441006.61    3762058.86        1.42646                      441056.61
3762058.86        1.35862
         441106.61    3762058.86        1.29587                      441156.61
3762058.86        1.23791
         440191.38    3762138.44        5.12713                      440241.38
3762138.44        4.71402
         440291.38    3762138.44        4.34621                      440341.38
3762138.44        3.99923
         440191.38    3762188.44        6.59082                      440241.38
3762188.44        5.83060
         440291.38    3762188.44        5.28510                      440341.38
3762188.44        4.79182
         440191.38    3762238.44        8.64125                      440241.38
3762238.44        7.32189
         440291.38    3762238.44        6.46865                      440341.38
3762238.44        5.75147
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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                                  PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                  INCLUDING SOURCE(S):     L0011959    , L0011960
, L0011961    , L0011962    , L0011963    ,
                  L0011964    , L0011953    , L0011954    , L0011955    , L0011965
, L0011966    , L0011967    , L0011968    ,
                  L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                  L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
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3763242.51   0.89442
         439320.17   3763242.51   0.94834   439370.17
3763242.51   1.01121
         439420.17   3763242.51   1.07735   439470.17
3763242.51   1.14016
         439520.17   3763242.51   1.21543   439570.17
3763242.51   1.29702
         439620.17   3763242.51   1.38385   439670.17
3763242.51   1.46636
         439720.17   3763242.51   1.51506   439770.17
3763242.51   1.56300
         439820.17   3763242.51   1.63125   439870.17
3763242.51   1.66102
         439170.17   3763292.51   0.75145   439220.17
3763292.51   0.77758
         439270.17   3763292.51   0.82720   439320.17
3763292.51   0.88333
         439370.17   3763292.51   0.94603   439420.17
3763292.51   0.99839
         439470.17   3763292.51   1.04330   439520.17
3763292.51   1.09604
         439570.17   3763292.51   1.19102   439620.17
3763292.51   1.25214
         439670.17   3763292.51   1.31336   439720.17
3763292.51   1.33666
         439770.17   3763292.51   1.32947   439820.17
3763292.51   1.35836
         439870.17   3763292.51   1.41384   439170.17
3763342.51   0.69887
         439220.17   3763342.51   0.72514   439270.17
3763342.51   0.78081

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                   INCLUDING SOURCE(S):   L0011959   , L0011960
, L0011961   , L0011962   , L0011963   ,
                  L0011964   , L0011953   , L0011954   , L0011955   , L0011965
, L0011966   , L0011967   , L0011968   ,
                  L0011969   , L0011970   , L0011971   , L0011972   , L0011973
, L0011974   , L0011975   , L0011976   ,
                  L0011977   , L0011978   , L0011979   , L0011980   , L0011981
, L0011982   , L0011983   , . . .   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.82906	439370.17	3763342.51	0.88881
439420.17	3763342.51	0.92443	439470.17	3763342.51	0.95896
439520.17	3763342.51	1.00069	439570.17	3763342.51	1.06504
439620.17	3763342.51	1.13255	439670.17	3763342.51	1.16765
439720.17	3763342.51	1.19756	439770.17	3763342.51	1.16383
439820.17	3763342.51	1.19978	439870.17	3763342.51	1.23856
439170.17	3763392.51	0.65231	439220.17	3763392.51	0.67220
439270.17	3763392.51	0.72760	439320.17	3763392.51	0.75849
439370.17	3763392.51	0.80021	439420.17	3763392.51	0.82883
439470.17	3763392.51	0.84431	439520.17	3763392.51	0.91615
439570.17	3763392.51	0.96779	439620.17	3763392.51	1.01727
439670.17	3763392.51	1.02197	439720.17	3763392.51	1.05173
439770.17	3763392.51	1.04919	439820.17	3763392.51	1.07194
439870.17	3763392.51	1.09750	439170.17	3763442.51	0.59519
439220.17	3763442.51	0.62046	439270.17	3763442.51	0.67305
439320.17	3763442.51	0.70130	439370.17	3763442.51	0.72471
439420.17	3763442.51	0.75623	439470.17	3763442.51	0.77389
439520.17	3763442.51	0.82493	439570.17	3763442.51	0.85893
439620.17	3763442.51	0.89648	439670.17	3763442.51	0.90787
439720.17	3763442.51	0.92928	439770.17	3763442.51	0.94293
439820.17	3763442.51	0.96065	439870.17	3763442.51	0.98217

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         439203.20    3762911.16        1.12939                      439253.20
3762911.16        1.21969
         439303.20    3762911.16        1.32747                      439353.20
3762911.16        1.45966
         439403.20    3762911.16        1.60125                      439453.20
3762911.16        1.76739
         439503.20    3762911.16        1.96290                      439553.20
3762911.16        2.18884
         439203.20    3762961.16        1.08839                      439253.20
3762961.16        1.17664
         439303.20    3762961.16        1.27582                      439353.20
3762961.16        1.39030
         439403.20    3762961.16        1.52121                      439453.20
3762961.16        1.67040
         439503.20    3762961.16        1.84489                      439553.20
3762961.16        2.04625
         439203.20    3763011.16        1.03744                      439253.20
3763011.16        1.11442
         439303.20    3763011.16        1.20373                      439353.20
3763011.16        1.30464
         439403.20    3763011.16        1.44629                      439453.20
3763011.16        1.57240
         439503.20    3763011.16        1.73393                      439553.20
3763011.16        1.88608
         439203.20    3763061.16        0.99361                      439253.20
3763061.16        1.04812
         439303.20    3763061.16        1.12695                      439353.20
3763061.16        1.21542
         439403.20    3763061.16        1.31876                      439453.20
3763061.16        1.44153
         439503.20    3763061.16        1.59468                      439553.20
3763061.16        1.72473
         439196.01    3762392.48        1.26345                      439246.01
3762392.48        1.38141
         439296.01    3762392.48        1.51758                      439346.01
3762392.48        1.67641
         439396.01    3762392.48        1.86318                      439446.01
3762392.48        2.08430
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
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                                   PAGE  55
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                   INCLUDING SOURCE(S):     L0011959    , L0011960
, L0011961    , L0011962    , L0011963    ,
                L0011964    , L0011953    , L0011954    , L0011955    , L0011965
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, L0011966    , L0011967    , L0011968    ,
                L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         439496.01    3762392.48        2.35279                       439546.01
3762392.48        2.68234
         439196.01    3762442.48        1.27401                       439246.01
3762442.48        1.39420
         439296.01    3762442.48        1.53468                       439346.01
3762442.48        1.69799
         439396.01    3762442.48        1.89107                       439446.01
3762442.48        2.12203
         439496.01    3762442.48        2.40084                       439546.01
3762442.48        2.74282
         439196.01    3762492.48        1.27899                       439246.01
3762492.48        1.40025
         439296.01    3762492.48        1.54217                       439346.01
3762492.48        1.70855
         439396.01    3762492.48        1.90460                       439446.01
3762492.48        2.13922
         439496.01    3762492.48        2.42589                       439546.01
3762492.48        2.77761
         439196.01    3762542.48        1.27857                       439246.01
3762542.48        1.39980
         439296.01    3762542.48        1.54176                       439346.01
3762542.48        1.70779
         439396.01    3762542.48        1.90531                       439446.01
3762542.48        2.14152
         439496.01    3762542.48        2.43047                       439546.01
3762542.48        2.78403
         439196.01    3762592.48        1.27270                       439246.01
3762592.48        1.39416
         439296.01    3762592.48        1.53473                       439346.01
3762592.48        1.69917
         439396.01    3762592.48        1.89436                       439446.01
3762592.48        2.12916
         439496.01    3762592.48        2.41634                       439546.01
3762592.48        2.76747
         439196.01    3762642.48        1.26160                       439246.01
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3762642.48        1.38126
         439296.01    3762642.48        1.51890                    439346.01
3762642.48        1.67992
         439396.01    3762642.48        1.87216                    439446.01
3762642.48        2.10251
         439496.01    3762642.48        2.38348                    439546.01
3762642.48        2.72703
         439196.01    3762692.48        1.24534                    439246.01
3762692.48        1.36180
         439296.01    3762692.48        1.49697                    439346.01
3762692.48        1.65450
         439396.01    3762692.48        1.83936                    439446.01
3762692.48        2.06185
         439496.01    3762692.48        2.33243                    439546.01
3762692.48        2.66260
         439196.01    3762742.48        1.22422                    439246.01
3762742.48        1.33649
         439296.01    3762742.48        1.46678                    439346.01
3762742.48        1.61812
         439396.01    3762742.48        1.79617                    439446.01
3762742.48        2.00799
         439496.01    3762742.48        2.26437                    439546.01
3762742.48        2.57583
         439196.01    3762792.48        1.19859                    439246.01
3762792.48        1.30592
         439296.01    3762792.48        1.43032                    439346.01
3762792.48        1.57438
         439396.01    3762792.48        1.74289                    439446.01
3762792.48        1.94177
         439496.01    3762792.48        2.18084                    439546.01
3762792.48        2.46981
         439196.01    3762842.48        1.16909                    439246.01
3762842.48        1.27120
         439296.01    3762842.48        1.38844                    439346.01
3762842.48        1.52377
         439396.01    3762842.48        1.68134                    439446.01
3762842.48        1.86617
         439496.01    3762842.48        2.08356                    439546.01
3762842.48        2.33642
         439573.31    3762470.54        2.98831                    439623.31
3762470.54        3.48618
         439673.31    3762470.54        4.12785                    439723.31
3762470.54        4.97834
         439773.31    3762470.54        6.15456                    439823.31
3762470.54        7.87647
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***          04/03/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 , L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 , L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 , L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	10.73908	439573.31	3762520.54	3.01084
439623.31	3762520.54	3.51574	439673.31	3762520.54	4.17054
439723.31	3762520.54	5.04050	439773.31	3762520.54	6.23371
439823.31	3762520.54	7.94567	439873.31	3762520.54	10.67204
439573.31	3762570.54	3.00499	439623.31	3762570.54	3.51095
439673.31	3762570.54	4.16720	439723.31	3762570.54	5.03784
439773.31	3762570.54	6.23152	439823.31	3762570.54	7.93784
439873.31	3762570.54	10.56913	439573.31	3762620.54	2.97213
439623.31	3762620.54	3.47026	439673.31	3762620.54	4.11477
439723.31	3762620.54	4.97416	439773.31	3762620.54	6.15485
439823.31	3762620.54	7.86209	439873.31	3762620.54	10.53875
439573.31	3762670.54	2.91092	439623.31	3762670.54	3.39408
439673.31	3762670.54	4.01561	439723.31	3762670.54	4.84578
439773.31	3762670.54	6.00198	439823.31	3762670.54	7.69369

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         439873.31    3762670.54       10.38128                    439152.35
3761448.92        0.63577
         439202.35    3761448.92        0.65726                    439252.35
3761448.92        0.68067
         439302.35    3761448.92        0.70451                    439352.35
3761448.92        0.72892
         439402.35    3761448.92        0.75376                    439452.35
3761448.92        0.77876
         439502.35    3761448.92        0.80508                    439552.35
3761448.92        0.83024
         439152.35    3761498.92        0.66444                    439202.35
3761498.92        0.68989
         439252.35    3761498.92        0.71727                    439302.35
3761498.92        0.74262
         439352.35    3761498.92        0.76909                    439402.35
3761498.92        0.79633
         439452.35    3761498.92        0.82404                    439502.35
3761498.92        0.85413
         439552.35    3761498.92        0.88333                    439152.35
3761548.92        0.69415
         439202.35    3761548.92        0.72226                    439252.35
3761548.92        0.75209
         439302.35    3761548.92        0.78074                    439352.35
3761548.92        0.80989
         439402.35    3761548.92        0.84156                    439452.35
3761548.92        0.87364
         439502.35    3761548.92        0.90661                    439552.35
3761548.92        0.94077
         439152.35    3761598.92        0.72478                    439202.35
3761598.92        0.75538
         439252.35    3761598.92        0.78840                    439302.35
3761598.92        0.82199
         439352.35    3761598.92        0.85498                    439402.35
3761598.92        0.89135
         439452.35    3761598.92        0.92878                    439502.35
3761598.92        0.96558
         439552.35    3761598.92        1.00524                    439152.35
3761648.92        0.75582
         439202.35    3761648.92        0.79049                    439252.35
3761648.92        0.82759
         439302.35    3761648.92        0.86594                    439352.35
3761648.92        0.90460
         439402.35    3761648.92        0.94598                    439452.35
3761648.92        0.98820
         439502.35    3761648.92        1.03252                    439552.35
3761648.92        1.07773
         439152.35    3761698.92        0.78779                    439202.35
3761698.92        0.82609
         439252.35    3761698.92        0.86634                    439302.35
3761698.92        0.91009
         439352.35    3761698.92        0.95613                    439402.35
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 ,
L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 ,
L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 ,
L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.05097	439502.35	3761698.92	1.10352
439552.35	3761698.92	1.15710	439152.35	3761748.92	0.81974
439202.35	3761748.92	0.86299	439252.35	3761748.92	0.90706
439302.35	3761748.92	0.95664	439352.35	3761748.92	1.00818
439402.35	3761748.92	1.06276	439452.35	3761748.92	1.11829
439502.35	3761748.92	1.17564	439552.35	3761748.92	1.23968
439152.35	3761798.92	0.85235	439202.35	3761798.92	0.90086
439252.35	3761798.92	0.95124	439302.35	3761798.92	1.00727
439352.35	3761798.92	1.06350	439402.35	3761798.92	1.12496
439452.35	3761798.92	1.19218	439502.35	3761798.92	1.25737
439552.35	3761798.92	1.33301	439152.35		

```
3761848.92        0.88549
         439202.35    3761848.92        0.93857                    439252.35
3761848.92        0.99406
         439302.35    3761848.92        1.05579                    439352.35
3761848.92        1.11957
         439402.35    3761848.92        1.19306                    439452.35
3761848.92        1.26862
         439502.35    3761848.92        1.34479                    439552.35
3761848.92        1.43419
         439152.35    3761898.92        0.91931                    439202.35
3761898.92        0.97681
         439252.35    3761898.92        1.03803                    439302.35
3761898.92        1.10875
         439352.35    3761898.92        1.18232                    439402.35
3761898.92        1.26232
         439452.35    3761898.92        1.35283                    439502.35
3761898.92        1.44710
         439552.35    3761898.92        1.54907                    439152.35
3761948.92        0.95236
         439202.35    3761948.92        1.01470                    439252.35
3761948.92        1.08177
         439302.35    3761948.92        1.16068                    439352.35
3761948.92        1.24462
         439402.35    3761948.92        1.33443                    439452.35
3761948.92        1.43850
         439502.35    3761948.92        1.55042                    439552.35
3761948.92        1.67205
         439152.35    3761998.92        0.98487                    439202.35
3761998.92        1.05184
         439252.35    3761998.92        1.12510                    439302.35
3761998.92        1.21218
         439352.35    3761998.92        1.30723                    439402.35
3761998.92        1.40774
         439452.35    3761998.92        1.52333                    439502.35
3761998.92        1.65163
         439552.35    3761998.92        1.79549                    439152.35
3762048.92        1.01650
         439202.35    3762048.92        1.09089                    439252.35
3762048.92        1.17327
         439302.35    3762048.92        1.26544                    439352.35
3762048.92        1.36829
         439402.35    3762048.92        1.48233                    439452.35
3762048.92        1.61317
         439502.35    3762048.92        1.76036                    439552.35
3762048.92        1.92654
         439616.61    3761420.65        0.83161                    439666.61
3761420.65        0.85496
         439716.61    3761420.65        0.87699                    439766.61
3761420.65        0.89761
         439816.61    3761420.65        0.91555                    439866.61
3761420.65        0.93301
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 ,
L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 ,
L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 ,
L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	1.00696	439766.61	3761520.65	1.03600
439816.61	3761520.65	1.06139	439866.61	3761520.65	1.08565
439616.61	3761570.65	1.01448	439666.61	3761570.65	1.05016
439716.61	3761570.65	1.08526	439766.61	3761570.65	1.11963
439816.61	3761570.65	1.15081	439866.61	3761570.65	1.17834
440451.14	3762893.83	9.82271	440501.14	3762893.83	8.58029
440551.14	3762893.83	7.48789	440601.14	3762893.83	6.56469

```
         440651.14    3762893.83        5.81225                    440701.14
3762893.83        5.19263
         440751.14    3762893.83        4.67497                    440801.14
3762893.83        4.23121
         440851.14    3762893.83        3.84680                    440451.14
3762943.83        7.21335
         440501.14    3762943.83        6.65371                    440551.14
3762943.83        6.08950
         440601.14    3762943.83        5.53204                    440651.14
3762943.83        5.03330
         440701.14    3762943.83        4.58941                    440751.14
3762943.83        4.20220
         440801.14    3762943.83        3.85140                    440851.14
3762943.83        3.54204
         441116.67    3763135.31        1.84879                    441166.67
3763135.31        1.76179
         441116.67    3763185.31        1.71060                    441166.67
3763185.31        1.63957
         441116.67    3763235.31        1.56614                    441166.67
3763235.31        1.51650
         441116.67    3763285.31        1.44314                    441166.67
3763285.31        1.40135
         441116.67    3763335.31        1.30533                    441166.67
3763335.31        1.28409
         441116.67    3763385.31        1.17814                    441166.67
3763385.31        1.16429
         441116.67    3763435.31        1.06154                    441166.67
3763435.31        1.05492
         440433.43    3762815.13       16.84303                    440483.43
3762815.13       12.77042
         440533.43    3762815.13       10.26998                    440583.43
3762815.13        8.51340
         440633.43    3762815.13        7.25127                    440683.43
3762815.13        6.28332
         440733.43    3762815.13        5.52192                    440783.43
3762815.13        4.89050
         440833.43    3762815.13        4.39597                    440883.43
3762815.13        3.95984
         440933.43    3762815.13        3.56222                    440983.43
3762815.13        3.24221
         440433.43    3762865.13       12.52902                    440483.43
3762865.13       10.46436
         440533.43    3762865.13        8.80345                    440583.43
3762865.13        7.52602
         440633.43    3762865.13        6.53715                    440683.43
3762865.13        5.75717
         440733.43    3762865.13        5.12164                    440783.43
3762865.13        4.59454
         440833.43    3762865.13        4.14324                    440883.43
3762865.13        3.74141
         440933.43    3762865.13        3.40741                    440983.43
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3762865.13   3.11717
         441118.27   3762686.02   2.63014   441168.27
3762686.02   2.42281
         441118.27   3762736.02   2.63273   441168.27
3762736.02   2.42090
         441118.27   3762786.02   2.60035   441168.27
3762786.02   2.40020
         441118.27   3762836.02   2.54297   441168.27
3762836.02   2.35171
         440411.67   3762093.41   3.61176   440461.67
3762093.41   3.33233
         440511.67   3762093.41   3.08309   440561.67
3762093.41   2.85690
         440611.67   3762093.41   2.65247   440411.67
3762143.41   4.26262

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                    INCLUDING SOURCE(S):   L0011959   , L0011960
, L0011961   , L0011962   , L0011963   ,
                  L0011964   , L0011953   , L0011954   , L0011955   , L0011965
, L0011966   , L0011967   , L0011968   ,
                  L0011969   , L0011970   , L0011971   , L0011972   , L0011973
, L0011974   , L0011975   , L0011976   ,
                  L0011977   , L0011978   , L0011979   , L0011980   , L0011981
, L0011982   , L0011983   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         440461.67   3762143.41   3.87844   440511.67
3762143.41   3.54804
         440561.67   3762143.41   3.25359   440611.67
3762143.41   2.99873
         440406.61   3762008.86   2.81288   440456.61
3762008.86   2.64461
         440506.61   3762008.86   2.48410   440556.61

```
3762008.86        2.33229
         440606.61    3762008.86        2.19225                        440656.61
3762008.86        2.06341
         440706.61    3762008.86        1.94571                        440756.61
3762008.86        1.83799
         440806.61    3762008.86        1.73475                        440856.61
3762008.86        1.64465
         440906.61    3762008.86        1.56385                        440956.61
3762008.86        1.48594
         441006.61    3762008.86        1.41431                        441056.61
3762008.86        1.34646
         441106.61    3762008.86        1.28511                        441156.61
3762008.86        1.22841
         440406.61    3762058.86        3.26349                        440456.61
3762058.86        3.03598
         440506.61    3762058.86        2.82739                        440556.61
3762058.86        2.63572
         440606.61    3762058.86        2.46020                        440656.61
3762058.86        2.30253
         440706.61    3762058.86        2.16117                        440756.61
3762058.86        2.03134
         440806.61    3762058.86        1.90958                        440856.61
3762058.86        1.80242
         440906.61    3762058.86        1.70557                        440956.61
3762058.86        1.61517
         441006.61    3762058.86        1.53191                        441056.61
3762058.86        1.45552
         441106.61    3762058.86        1.38509                        441156.61
3762058.86        1.32018
         440191.38    3762138.44        6.58209                        440241.38
3762138.44        5.88144
         440291.38    3762138.44        5.29463                        440341.38
3762138.44        4.77354
         440191.38    3762188.44        9.25317                        440241.38
3762188.44        7.63443
         440291.38    3762188.44        6.63094                        440341.38
3762188.44        5.83415
         440191.38    3762238.44       12.70318                        440241.38
3762238.44        9.77868
         440291.38    3762238.44        8.21896                        440341.38
3762238.44        7.08414
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:47:09

                                  PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1OFFSIT ***
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                                  INCLUDING SOURCE(S):     L0012462    , L0012463
, L0012464    , L0012465    , L0012466    ,
                  L0012467    , L0012468    , L0012469    , L0012470    , L0012471
, L0012472    , L0012473    , L0012474    ,
                  L0012475    , L0012476    , L0012477    , L0012478    , L0012479
, L0012480    , L0012481    , L0012482    ,
                  L0012483    , L0012484    , L0012485    , L0012486    , L0012487
, L0012488    , L0012489    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         440407.86    3761497.84        1.94616                      439943.36
3761716.33       15.84506
         439170.17    3763092.51        0.93443                      439220.17
3763092.51        1.00922
         439270.17    3763092.51        1.10142                      439320.17
3763092.51        1.20541
         439370.17    3763092.51        1.33238                      439420.17
3763092.51        1.48768
         439470.17    3763092.51        1.68061                      439520.17
3763092.51        1.91617
         439570.17    3763092.51        2.21746                      439620.17
3763092.51        2.61259
         439670.17    3763092.51        3.15855                      439720.17
3763092.51        3.97542
         439770.17    3763092.51        5.32306                      439820.17
3763092.51        8.03992
         439870.17    3763092.51       17.26154                      439170.17
3763142.51        0.90257
         439220.17    3763142.51        0.97447                      439270.17
3763142.51        1.06449
         439320.17    3763142.51        1.16167                      439370.17
3763142.51        1.28326
         439420.17    3763142.51        1.43395                      439470.17
3763142.51        1.61199
         439520.17    3763142.51        1.83385                      439570.17
3763142.51        2.12776
         439620.17    3763142.51        2.50916                      439670.17
3763142.51        3.03919
         439720.17    3763142.51        3.83111                      439770.17
3763142.51        5.14215
         439820.17    3763142.51        7.80064                      439870.17
3763142.51       16.82323
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         439170.17    3763192.51        0.86963                      439220.17
3763192.51        0.94016
         439270.17    3763192.51        1.02460                      439320.17
3763192.51        1.11696
         439370.17    3763192.51        1.23282                      439420.17
3763192.51        1.37589
         439470.17    3763192.51        1.54181                      439520.17
3763192.51        1.75477
         439570.17    3763192.51        2.03000                      439620.17
3763192.51        2.39715
         439670.17    3763192.51        2.90103                      439720.17
3763192.51        3.65970
         439770.17    3763192.51        4.93879                      439820.17
3763192.51        7.55341
         439870.17    3763192.51       16.38348                      439170.17
3763242.51        0.83551
         439220.17    3763242.51        0.90257                      439270.17
3763242.51        0.98310
         439320.17    3763242.51        1.07382                      439370.17
3763242.51        1.18222
         439420.17    3763242.51        1.31249                      439470.17
3763242.51        1.46790
         439520.17    3763242.51        1.66757                      439570.17
3763242.51        1.92626
         439620.17    3763242.51        2.27223                      439670.17
3763242.51        2.74984
         439720.17    3763242.51        3.47656                      439770.17
3763242.51        4.71507
         439820.17    3763242.51        7.27055                      439870.17
3763242.51       15.92082
         439170.17    3763292.51        0.79863                      439220.17
3763292.51        0.85604
         439270.17    3763292.51        0.92873                      439320.17
3763292.51        1.01714
         439370.17    3763292.51        1.12319                      439420.17
3763292.51        1.23809
         439470.17    3763292.51        1.38054                      439520.17
3763292.51        1.56037
         439570.17    3763292.51        1.80784                      439620.17
3763292.51        2.12441
         439670.17    3763292.51        2.57712                      439720.17
3763292.51        3.26130
         439770.17    3763292.51        4.44217                      439820.17
3763292.51        6.93070
         439870.17    3763292.51       15.37469                      439170.17
3763342.51        0.76167
         439220.17    3763342.51        0.81536                      439270.17
3763342.51        0.88760
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***
INCLUDING SOURCE(S): L0012462 , L0012463 , L0012464 , L0012465 , L0012466 , L0012467 , L0012468 , L0012469 , L0012470 , L0012471 , L0012472 , L0012473 , L0012474 , L0012475 , L0012476 , L0012477 , L0012478 , L0012479 , L0012480 , L0012481 , L0012482 , L0012483 , L0012484 , L0012485 , L0012486 , L0012487 , L0012488 , L0012489 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.96780	439370.17	3763342.51	1.06452
439420.17	3763342.51	1.17049	439470.17	3763342.51	1.29941
439520.17	3763342.51	1.46189	439570.17	3763342.51	1.68157
439620.17	3763342.51	1.97239	439670.17	3763342.51	2.37757
439720.17	3763342.51	3.00485	439770.17	3763342.51	4.10058
439820.17	3763342.51	6.46213	439870.17	3763342.51	14.68611
439170.17	3763392.51	0.72442	439220.17	3763392.51	0.77651
439270.17	3763392.51	0.84334	439320.17	3763392.51	0.91008
439370.17	3763392.51	0.99691	439420.17	3763392.51	1.09042
439470.17	3763392.51	1.20517	439520.17	3763392.51	1.35932
439570.17	3763392.51	1.55046	439620.17	3763392.51	1.80739
439670.17	3763392.51	2.15751	439720.17	3763392.51	2.70065
439770.17	3763392.51	3.64934	439820.17		

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3763392.51        5.77154
         439870.17    3763392.51       13.58306                      439170.17
3763442.51        0.68866
         439220.17    3763442.51        0.73531                      439270.17
3763442.51        0.79814
         439320.17    3763442.51        0.86223                      439370.17
3763442.51        0.93402
         439420.17    3763442.51        1.02110                      439470.17
3763442.51        1.12378
         439520.17    3763442.51        1.25565                      439570.17
3763442.51        1.41796
         439620.17    3763442.51        1.63158                      439670.17
3763442.51        1.91949
         439720.17    3763442.51        2.35086                      439770.17
3763442.51        3.07153
         439820.17    3763442.51        4.68232                      439870.17
3763442.51       11.06055
         439203.20    3762911.16        1.09205                      439253.20
3762911.16        1.18759
         439303.20    3762911.16        1.30230                      439353.20
3762911.16        1.44623
         439403.20    3762911.16        1.60589                      439453.20
3762911.16        1.79977
         439503.20    3762911.16        2.04250                      439553.20
3762911.16        2.34274
         439203.20    3762961.16        1.06456                      439253.20
3762961.16        1.16042
         439303.20    3762961.16        1.26910                      439353.20
3762961.16        1.40429
         439403.20    3762961.16        1.56356                      439453.20
3762961.16        1.75389
         439503.20    3762961.16        1.99423                      439553.20
3762961.16        2.28999
         439203.20    3763011.16        1.03385                      439253.20
3763011.16        1.12602
         439303.20    3763011.16        1.23175                      439353.20
3763011.16        1.35880
         439403.20    3763011.16        1.52151                      439453.20
3763011.16        1.70673
         439503.20    3763011.16        1.93869                      439553.20
3763011.16        2.22633
         439203.20    3763061.16        1.00390                      439253.20
3763061.16        1.08841
         439303.20    3763061.16        1.19146                      439353.20
3763061.16        1.31202
         439403.20    3763061.16        1.46268                      439453.20
3763061.16        1.64439
         439503.20    3763061.16        1.87131                      439553.20
3763061.16        2.15329
         439196.01    3762392.48        1.23983                      439246.01
3762392.48        1.34927
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***

INCLUDING SOURCE(S): L0012462 , L0012463 , L0012464 , L0012465 , L0012466 , L0012467 , L0012468 , L0012469 , L0012470 , L0012471 , L0012472 , L0012473 , L0012474 , L0012475 , L0012476 , L0012477 , L0012478 , L0012479 , L0012480 , L0012481 , L0012482 , L0012483 , L0012484 , L0012485 , L0012486 , L0012487 , L0012488 , L0012489 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439296.01	3762392.48	1.47523	439346.01	3762392.48	1.62134
439396.01	3762392.48	1.79429	439446.01	3762392.48	1.99940
439496.01	3762392.48	2.24526	439546.01	3762392.48	2.54662
439196.01	3762442.48	1.23529	439246.01	3762442.48	1.34457
439296.01	3762442.48	1.46832	439346.01	3762442.48	1.61404
439396.01	3762442.48	1.78493	439446.01	3762442.48	1.98796
439496.01	3762442.48	2.23329	439546.01	3762442.48	2.53566
439196.01	3762492.48	1.22889	439246.01	3762492.48	1.33921
439296.01	3762492.48	1.46282	439346.01	3762492.48	1.60626
439396.01	3762492.48	1.77684	439446.01	3762492.48	1.97963
439496.01	3762492.48	2.22201	439546.01	3762492.48	2.52142

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         439196.01    3762542.48        1.22045                    439246.01
3762542.48        1.33053
         439296.01    3762542.48        1.45514                    439346.01
3762542.48        1.60016
         439396.01    3762542.48        1.76847                    439446.01
3762542.48        1.97085
         439496.01    3762542.48        2.20852                    439546.01
3762542.48        2.51049
         439196.01    3762592.48        1.21007                    439246.01
3762592.48        1.31601
         439296.01    3762592.48        1.44164                    439346.01
3762592.48        1.58786
         439396.01    3762592.48        1.75760                    439446.01
3762592.48        1.95767
         439496.01    3762592.48        2.19496                    439546.01
3762592.48        2.49719
         439196.01    3762642.48        1.19635                    439246.01
3762642.48        1.29738
         439296.01    3762642.48        1.42961                    439346.01
3762642.48        1.57669
         439396.01    3762642.48        1.74398                    439446.01
3762642.48        1.94357
         439496.01    3762642.48        2.17452                    439546.01
3762642.48        2.47319
         439196.01    3762692.48        1.17592                    439246.01
3762692.48        1.28105
         439296.01    3762692.48        1.40085                    439346.01
3762692.48        1.54598
         439396.01    3762692.48        1.72560                    439446.01
3762692.48        1.92099
         439496.01    3762692.48        2.15196                    439546.01
3762692.48        2.44952
         439196.01    3762742.48        1.15577                    439246.01
3762742.48        1.26295
         439296.01    3762742.48        1.38060                    439346.01
3762742.48        1.52332
         439396.01    3762742.48        1.69013                    439446.01
3762742.48        1.88828
         439496.01    3762742.48        2.11844                    439546.01
3762742.48        2.41973
         439196.01    3762792.48        1.13092                    439246.01
3762792.48        1.24390
         439296.01    3762792.48        1.35640                    439346.01
3762792.48        1.49374
         439396.01    3762792.48        1.65745                    439446.01
3762792.48        1.85600
         439496.01    3762792.48        2.08834                    439546.01
3762792.48        2.38858
         439196.01    3762842.48        1.10975                    439246.01
3762842.48        1.21663
         439296.01    3762842.48        1.33325                    439346.01
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***
INCLUDING SOURCE(S): L0012462 , L0012463 , L0012464 , L0012465 , L0012466 ,
L0012467 , L0012468 , L0012469 , L0012470 , L0012471 , L0012472 , L0012473 , L0012474 ,
L0012475 , L0012476 , L0012477 , L0012478 , L0012479 , L0012480 , L0012481 , L0012482 ,
L0012483 , L0012484 , L0012485 , L0012486 , L0012487 , L0012488 , L0012489 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	14.69801	439573.31	3762520.54	2.71564
439623.31	3762520.54	3.15550	439673.31	3762520.54	3.75148
439723.31	3762520.54	4.61683	439773.31	3762520.54	6.02354
439823.31	3762520.54	8.85378	439873.31	3762520.54	14.68127
439573.31	3762570.54	2.70376	439623.31	3762570.54	3.14493
439673.31	3762570.54	3.73098	439723.31		

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3762570.54        4.60023
         439773.31    3762570.54        6.01436                    439823.31
3762570.54        8.85979
         439873.31    3762570.54       14.40428                    439573.31
3762620.54        2.68466
         439623.31    3762620.54        3.11986                    439673.31
3762620.54        3.72276
         439723.31    3762620.54        4.59360                    439773.31
3762620.54        6.01560
         439823.31    3762620.54        8.87258                    439873.31
3762620.54       14.26389
         439573.31    3762670.54        2.66015                    439623.31
3762670.54        3.09258
         439673.31    3762670.54        3.70197                    439723.31
3762670.54        4.58724
         439773.31    3762670.54        6.02182                    439823.31
3762670.54        8.92585
         439873.31    3762670.54       14.28070                    439152.35
3761448.92        0.85099
         439202.35    3761448.92        0.90562                    439252.35
3761448.92        0.96903
         439302.35    3761448.92        1.04087                    439352.35
3761448.92        1.12339
         439402.35    3761448.92        1.21913                    439452.35
3761448.92        1.33150
         439502.35    3761448.92        1.46866                    439552.35
3761448.92        1.63437
         439152.35    3761498.92        0.88221                    439202.35
3761498.92        0.94299
         439252.35    3761498.92        1.01332                    439302.35
3761498.92        1.08989
         439352.35    3761498.92        1.17899                    439402.35
3761498.92        1.28353
         439452.35    3761498.92        1.40776                    439502.35
3761498.92        1.56288
         439552.35    3761498.92        1.75379                    439152.35
3761548.92        0.91256
         439202.35    3761548.92        0.97726                    439252.35
3761548.92        1.05178
         439302.35    3761548.92        1.13446                    439352.35
3761548.92        1.22984
         439402.35    3761548.92        1.34505                    439452.35
3761548.92        1.48247
         439502.35    3761548.92        1.65130                    439552.35
3761548.92        1.86569
         439152.35    3761598.92        0.94178                    439202.35
3761598.92        1.00969
         439252.35    3761598.92        1.08859                    439302.35
3761598.92        1.17864
         439352.35    3761598.92        1.28106                    439402.35
3761598.92        1.40589
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         439452.35    3761598.92        1.55621                      439502.35
3761598.92        1.73802
         439552.35    3761598.92        1.97289                      439152.35
3761648.92        0.96930
         439202.35    3761648.92        1.04160                      439252.35
3761648.92        1.12523
         439302.35    3761648.92        1.22140                      439352.35
3761648.92        1.33217
         439402.35    3761648.92        1.46536                      439452.35
3761648.92        1.62517
         439502.35    3761648.92        1.82364                      439552.35
3761648.92        2.07450
         439152.35    3761698.92        0.99569                      439202.35
3761698.92        1.07128
         439252.35    3761698.92        1.15771                      439302.35
3761698.92        1.25950
         439352.35    3761698.92        1.37895                      439402.35
3761698.92        1.52136
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:47:09

                                  PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1OFFSIT ***
                                  INCLUDING SOURCE(S):     L0012462    , L0012463
, L0012464    , L0012465    , L0012466    ,
                  L0012467    , L0012468    , L0012469    , L0012470    , L0012471
, L0012472    , L0012473    , L0012474    ,
                  L0012475    , L0012476    , L0012477    , L0012478    , L0012479
, L0012480    , L0012481    , L0012482    ,
                  L0012483    , L0012484    , L0012485    , L0012486    , L0012487
, L0012488    , L0012489    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         439452.35    3761698.92        1.68717                      439502.35
3761698.92        1.89903
         439552.35    3761698.92        2.16570                      439152.35
3761748.92        1.02003
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         439202.35    3761748.92        1.09964                    439252.35
3761748.92        1.18894
         439302.35    3761748.92        1.29573                    439352.35
3761748.92        1.41988
         439402.35    3761748.92        1.56780                    439452.35
3761748.92        1.74395
         439502.35    3761748.92        1.95962                    439552.35
3761748.92        2.23990
         439152.35    3761798.92        1.04304                    439202.35
3761798.92        1.12637
         439252.35    3761798.92        1.22047                    439302.35
3761798.92        1.33188
         439352.35    3761798.92        1.45863                    439402.35
3761798.92        1.61120
         439452.35    3761798.92        1.79819                    439502.35
3761798.92        2.01971
         439552.35    3761798.92        2.31062                    439152.35
3761848.92        1.06462
         439202.35    3761848.92        1.15048                    439252.35
3761848.92        1.24732
         439302.35    3761848.92        1.36150                    439352.35
3761848.92        1.49245
         439402.35    3761848.92        1.65383                    439452.35
3761848.92        1.84461
         439502.35    3761848.92        2.07279                    439552.35
3761848.92        2.37260
         439152.35    3761898.92        1.08489                    439202.35
3761898.92        1.17274
         439252.35    3761898.92        1.27231                    439302.35
3761898.92        1.39159
         439352.35    3761898.92        1.52813                    439402.35
3761898.92        1.69032
         439452.35    3761898.92        1.88989                    439502.35
3761898.92        2.13083
         439552.35    3761898.92        2.43387                    439152.35
3761948.92        1.10274
         439202.35    3761948.92        1.19251                    439252.35
3761948.92        1.29431
         439302.35    3761948.92        1.41699                    439352.35
3761948.92        1.55809
         439402.35    3761948.92        1.72325                    439452.35
3761948.92        1.92740
         439502.35    3761948.92        2.17540                    439552.35
3761948.92        2.48561
         439152.35    3761998.92        1.11850                    439202.35
3761998.92        1.20965
         439252.35    3761998.92        1.31346                    439302.35
3761998.92        1.43880
         439352.35    3761998.92        1.58391                    439402.35
3761998.92        1.75158
         439452.35    3761998.92        1.95666                    439502.35
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3761998.92        2.20761
         439552.35    3761998.92        2.52315                      439152.35
3762048.92        1.13215
         439202.35    3762048.92        1.22648                      439252.35
3762048.92        1.33429
         439302.35    3762048.92        1.45915                      439352.35
3762048.92        1.60483
         439402.35    3762048.92        1.77612                      439452.35
3762048.92        1.98380
         439502.35    3762048.92        2.23744                      439552.35
3762048.92        2.55466
         439616.61    3761420.65        1.81777                      439666.61
3761420.65        2.08950
         439716.61    3761420.65        2.46876                      439766.61
3761420.65        3.05047
         439816.61    3761420.65        4.07027                      439866.61
3761420.65        6.30039
         439616.61    3761470.65        1.98845                      439666.61
3761470.65        2.32404
         439716.61    3761470.65        2.82168                      439766.61
3761470.65        3.65866
         439816.61    3761470.65        5.43304                      439866.61
3761470.65       12.53872
         439616.61    3761520.65        2.15177                      439666.61
3761520.65        2.54734
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:47:09

                                  PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1OFFSIT ***
                                  INCLUDING SOURCE(S):     L0012462    , L0012463
, L0012464    , L0012465    , L0012466    ,
                  L0012467    , L0012468    , L0012469    , L0012470    , L0012471
, L0012472    , L0012473    , L0012474    ,
                  L0012475    , L0012476    , L0012477    , L0012478    , L0012479
, L0012480    , L0012481    , L0012482    ,
                  L0012483    , L0012484    , L0012485    , L0012486    , L0012487
, L0012488    , L0012489    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M)        CONC
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         440733.43    3762815.13        2.67482                        440783.43
3762815.13        2.44540
         440833.43    3762815.13        2.25348                        440883.43
3762815.13        2.09289
         440933.43    3762815.13        1.95661                        440983.43
3762815.13        1.83822
         440433.43    3762865.13        7.83128                        440483.43
3762865.13        5.50186
         440533.43    3762865.13        4.37203                        440583.43
3762865.13        3.68146
         440633.43    3762865.13        3.20495                        440683.43
3762865.13        2.85315
         440733.43    3762865.13        2.57868                        440783.43
3762865.13        2.35961
         440833.43    3762865.13        2.17917                        440883.43
3762865.13        2.02632
         440933.43    3762865.13        1.89523                        440983.43
3762865.13        1.77997
         441118.27    3762686.02        1.69993                        441168.27
3762686.02        1.61694
         441118.27    3762736.02        1.65184                        441168.27
3762736.02        1.57013
         441118.27    3762786.02        1.60612                        441168.27
3762786.02        1.52651
         441118.27    3762836.02        1.55959                        441168.27
3762836.02        1.48162
         440411.67    3762093.41       21.05271                        440461.67
3762093.41       16.71312
         440511.67    3762093.41       15.62488                        440561.67
3762093.41       15.09334
         440611.67    3762093.41       14.75737                        440411.67
3762143.41       15.79293
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:47:09

                                   PAGE  66
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1OFFSIT ***
                                   INCLUDING SOURCE(S):     L0012462    , L0012463
, L0012464    , L0012465    , L0012466    ,
                  L0012467    , L0012468    , L0012469    , L0012470    , L0012471
, L0012472    , L0012473    , L0012474    ,
                  L0012475    , L0012476    , L0012477    , L0012478    , L0012479
, L0012480    , L0012481    , L0012482    ,
                  L0012483    , L0012484    , L0012485    , L0012486    , L0012487
, L0012488    , L0012489    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	10.33808	440511.67	3762143.41	8.69593
440561.67	3762143.41	7.90869	440611.67	3762143.41	7.43146
440406.61	3762008.86	7.95658	440456.61	3762008.86	7.64891
440506.61	3762008.86	7.34627	440556.61	3762008.86	7.07869
440606.61	3762008.86	6.85662	440656.61	3762008.86	6.66166
440706.61	3762008.86	6.49509	440756.61	3762008.86	6.35101
440806.61	3762008.86	6.15355	440856.61	3762008.86	6.02626
440906.61	3762008.86	5.92553	440956.61	3762008.86	5.74626
441006.61	3762008.86	5.53567	441056.61	3762008.86	5.21033
441106.61	3762008.86	4.73520	441156.61	3762008.86	3.95343
440406.61	3762058.86	18.14263	440456.61	3762058.86	17.02844
440506.61	3762058.86	16.37055	440556.61	3762058.86	15.90503
440606.61	3762058.86	15.55753	440656.61	3762058.86	15.26072
440706.61	3762058.86	15.11053	440756.61	3762058.86	14.93967
440806.61	3762058.86	14.48465	440856.61	3762058.86	14.38902
440906.61	3762058.86	14.31950	440956.61	3762058.86	14.03677
441006.61	3762058.86	13.73519	441056.61	3762058.86	13.34084
441106.61	3762058.86	12.60778	441156.61	3762058.86	9.44031
440191.38	3762138.44	9.05660	440241.38	3762138.44	9.03853
440291.38	3762138.44	9.44537	440341.38	3762138.44	11.22829
440191.38	3762188.44	7.20016	440241.38		

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.00035	439943.36	3761716.33	0.00063
439170.17	3763092.51	0.00028	439220.17	3763092.51	0.00029
439270.17	3763092.51	0.00031	439320.17	3763092.51	0.00032
439370.17	3763092.51	0.00033	439420.17	3763092.51	0.00035
439470.17	3763092.51	0.00036	439520.17	3763092.51	0.00038
439570.17	3763092.51	0.00039	439620.17	3763092.51	0.00040
439670.17	3763092.51	0.00041	439720.17	3763092.51	0.00042
439770.17	3763092.51	0.00045	439820.17	3763092.51	0.00049
439870.17	3763092.51	0.00054	439170.17	3763142.51	0.00024
439220.17	3763142.51	0.00025	439270.17	3763142.51	0.00026
439320.17	3763142.51	0.00027	439370.17		

3763142.51 0.00028
439420.17 3763142.51 0.00028 439470.17
3763142.51 0.00029
439520.17 3763142.51 0.00029 439570.17
3763142.51 0.00030
439620.17 3763142.51 0.00030 439670.17
3763142.51 0.00031
439720.17 3763142.51 0.00033 439770.17
3763142.51 0.00035
439820.17 3763142.51 0.00038 439870.17
3763142.51 0.00043
439170.17 3763192.51 0.00021 439220.17
3763192.51 0.00022
439270.17 3763192.51 0.00022 439320.17
3763192.51 0.00022
439370.17 3763192.51 0.00022 439420.17
3763192.51 0.00023
439470.17 3763192.51 0.00023 439520.17
3763192.51 0.00023
439570.17 3763192.51 0.00023 439620.17
3763192.51 0.00024
439670.17 3763192.51 0.00025 439720.17
3763192.51 0.00026
439770.17 3763192.51 0.00028 439820.17
3763192.51 0.00031
439870.17 3763192.51 0.00035 439170.17
3763242.51 0.00018
439220.17 3763242.51 0.00018 439270.17
3763242.51 0.00018
439320.17 3763242.51 0.00018 439370.17
3763242.51 0.00018
439420.17 3763242.51 0.00018 439470.17
3763242.51 0.00018
439520.17 3763242.51 0.00018 439570.17
3763242.51 0.00018
439620.17 3763242.51 0.00019 439670.17
3763242.51 0.00020
439720.17 3763242.51 0.00022 439770.17
3763242.51 0.00024
439820.17 3763242.51 0.00026 439870.17
3763242.51 0.00029
439170.17 3763292.51 0.00015 439220.17
3763292.51 0.00015
439270.17 3763292.51 0.00015 439320.17
3763292.51 0.00015
439370.17 3763292.51 0.00015 439420.17
3763292.51 0.00014
439470.17 3763292.51 0.00014 439520.17
3763292.51 0.00014
439570.17 3763292.51 0.00015 439620.17
3763292.51 0.00016

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439670.17	3763292.51	0.00017	439720.17	3763292.51	0.00018
439770.17	3763292.51	0.00020	439820.17	3763292.51	0.00023
439870.17	3763292.51	0.00025	439170.17	3763342.51	0.00013
439220.17	3763342.51	0.00012	439270.17	3763342.51	0.00012
439320.17	3763342.51	0.00012	439370.17	3763342.51	0.00012
439420.17	3763342.51	0.00012	439470.17	3763342.51	0.00012
439520.17	3763342.51	0.00012	439570.17	3763342.51	0.00012
439620.17	3763342.51	0.00013	439670.17	3763342.51	0.00015
439720.17	3763342.51	0.00016	439770.17	3763342.51	0.00018
439820.17	3763342.51	0.00020	439870.17	3763342.51	0.00022
439170.17	3763392.51	0.00010	439220.17	3763392.51	0.00010
439270.17	3763392.51	0.00010	439320.17	3763392.51	0.00010
439370.17	3763392.51	0.00010	439420.17	3763392.51	0.00010
439470.17	3763392.51	0.00010	439520.17	3763392.51	0.00010

```
         439570.17    3763392.51        0.00011                    439620.17
3763392.51        0.00012
         439670.17    3763392.51        0.00013                    439720.17
3763392.51        0.00014
         439770.17    3763392.51        0.00016                    439820.17
3763392.51        0.00018
         439870.17    3763392.51        0.00019                    439170.17
3763442.51        0.00009
         439220.17    3763442.51        0.00008                    439270.17
3763442.51        0.00008
         439320.17    3763442.51        0.00008                    439370.17
3763442.51        0.00008
         439420.17    3763442.51        0.00008                    439470.17
3763442.51        0.00008
         439520.17    3763442.51        0.00009                    439570.17
3763442.51        0.00010
         439620.17    3763442.51        0.00011                    439670.17
3763442.51        0.00012
         439720.17    3763442.51        0.00013                    439770.17
3763442.51        0.00014
         439820.17    3763442.51        0.00016                    439870.17
3763442.51        0.00017
         439203.20    3762911.16        0.00042                    439253.20
3762911.16        0.00046
         439303.20    3762911.16        0.00050                    439353.20
3762911.16        0.00055
         439403.20    3762911.16        0.00061                    439453.20
3762911.16        0.00067
         439503.20    3762911.16        0.00075                    439553.20
3762911.16        0.00084
         439203.20    3762961.16        0.00038                    439253.20
3762961.16        0.00042
         439303.20    3762961.16        0.00045                    439353.20
3762961.16        0.00049
         439403.20    3762961.16        0.00053                    439453.20
3762961.16        0.00058
         439503.20    3762961.16        0.00064                    439553.20
3762961.16        0.00070
         439203.20    3763011.16        0.00035                    439253.20
3763011.16        0.00037
         439303.20    3763011.16        0.00040                    439353.20
3763011.16        0.00043
         439403.20    3763011.16        0.00046                    439453.20
3763011.16        0.00049
         439503.20    3763011.16        0.00053                    439553.20
3763011.16        0.00057
         439203.20    3763061.16        0.00031                    439253.20
3763061.16        0.00033
         439303.20    3763061.16        0.00035                    439353.20
3763061.16        0.00037
         439403.20    3763061.16        0.00039                    439453.20
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439503.20	3763061.16	0.00041			
439553.20	3763061.16	0.00043			
439196.01	3762392.48	0.00045			
439246.01	3762392.48	0.00060			
439296.01	3762392.48	0.00067			
439346.01	3762392.48	0.00075			
439396.01	3762392.48	0.00084			
439446.01	3762392.48	0.00096			
439496.01	3762392.48	0.00110			
439546.01	3762392.48	0.00128			
439196.01	3762442.48	0.00061			
439246.01	3762442.48	0.00068			
439296.01	3762442.48	0.00076			
439346.01	3762442.48	0.00086			
439396.01	3762442.48	0.00099			
439446.01	3762442.48	0.00114			
439496.01	3762442.48	0.00132			
439546.01	3762442.48	0.00156			
439196.01	3762492.48	0.00061			
439246.01	3762492.48	0.00068			
439296.01	3762492.48	0.00077			
439346.01	3762492.48	0.00088			
439396.01	3762492.48	0.00100			
439446.01	3762492.48	0.00116			
439496.01	3762492.48	0.00135			
439546.01	3762492.48	0.00159			
439196.01	3762542.48	0.00060			
439246.01	3762542.48	0.00075			

```
3762542.48        0.00068
         439296.01    3762542.48        0.00077                    439346.01
3762542.48        0.00088
         439396.01    3762542.48        0.00100                    439446.01
3762542.48        0.00116
         439496.01    3762542.48        0.00136                    439546.01
3762542.48        0.00160
         439196.01    3762592.48        0.00059                    439246.01
3762592.48        0.00067
         439296.01    3762592.48        0.00076                    439346.01
3762592.48        0.00086
         439396.01    3762592.48        0.00099                    439446.01
3762592.48        0.00114
         439496.01    3762592.48        0.00134                    439546.01
3762592.48        0.00157
         439196.01    3762642.48        0.00058                    439246.01
3762642.48        0.00065
         439296.01    3762642.48        0.00073                    439346.01
3762642.48        0.00083
         439396.01    3762642.48        0.00095                    439446.01
3762642.48        0.00110
         439496.01    3762642.48        0.00128                    439546.01
3762642.48        0.00151
         439196.01    3762692.48        0.00055                    439246.01
3762692.48        0.00062
         439296.01    3762692.48        0.00069                    439346.01
3762692.48        0.00079
         439396.01    3762692.48        0.00090                    439446.01
3762692.48        0.00104
         439496.01    3762692.48        0.00120                    439546.01
3762692.48        0.00141
         439196.01    3762742.48        0.00052                    439246.01
3762742.48        0.00058
         439296.01    3762742.48        0.00065                    439346.01
3762742.48        0.00074
         439396.01    3762742.48        0.00083                    439446.01
3762742.48        0.00096
         439496.01    3762742.48        0.00110                    439546.01
3762742.48        0.00129
         439196.01    3762792.48        0.00049                    439246.01
3762792.48        0.00054
         439296.01    3762792.48        0.00061                    439346.01
3762792.48        0.00068
         439396.01    3762792.48        0.00076                    439446.01
3762792.48        0.00087
         439496.01    3762792.48        0.00100                    439546.01
3762792.48        0.00116
         439196.01    3762842.48        0.00046                    439246.01
3762842.48        0.00051
         439296.01    3762842.48        0.00056                    439346.01
3762842.48        0.00062
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439396.01	3762842.48	0.00069	439446.01	3762842.48	0.00078
439496.01	3762842.48	0.00089	439546.01	3762842.48	0.00102
439573.31	3762470.54	0.00173	439623.31	3762470.54	0.00209
439673.31	3762470.54	0.00256	439723.31	3762470.54	0.00324
439773.31	3762470.54	0.00426	439823.31	3762470.54	0.00593
439873.31	3762470.54	0.00902	439573.31	3762520.54	0.00176
439623.31	3762520.54	0.00211	439673.31	3762520.54	0.00257
439723.31	3762520.54	0.00320	439773.31	3762520.54	0.00410
439823.31	3762520.54	0.00548	439873.31	3762520.54	0.00774
439573.31	3762570.54	0.00175	439623.31	3762570.54	0.00210
439673.31	3762570.54	0.00255	439723.31	3762570.54	0.00315
439773.31	3762570.54	0.00399	439823.31	3762570.54	0.00526
439873.31	3762570.54	0.00733	439573.31	3762620.54	0.00170
439623.31	3762620.54	0.00204	439673.31	3762620.54	0.00248

```
         439723.31    3762620.54        0.00309                    439773.31
3762620.54        0.00396
         439823.31    3762620.54        0.00535                    439873.31
3762620.54        0.00792
         439573.31    3762670.54        0.00161                    439623.31
3762670.54        0.00193
         439673.31    3762670.54        0.00236                    439723.31
3762670.54        0.00297
         439773.31    3762670.54        0.00389                    439823.31
3762670.54        0.00541
         439873.31    3762670.54        0.00826                    439152.35
3761448.92        0.00016
         439202.35    3761448.92        0.00018                    439252.35
3761448.92        0.00019
         439302.35    3761448.92        0.00021                    439352.35
3761448.92        0.00023
         439402.35    3761448.92        0.00025                    439452.35
3761448.92        0.00028
         439502.35    3761448.92        0.00030                    439552.35
3761448.92        0.00031
         439152.35    3761498.92        0.00017                    439202.35
3761498.92        0.00018
         439252.35    3761498.92        0.00020                    439302.35
3761498.92        0.00022
         439352.35    3761498.92        0.00024                    439402.35
3761498.92        0.00026
         439452.35    3761498.92        0.00029                    439502.35
3761498.92        0.00031
         439552.35    3761498.92        0.00033                    439152.35
3761548.92        0.00017
         439202.35    3761548.92        0.00019                    439252.35
3761548.92        0.00020
         439302.35    3761548.92        0.00022                    439352.35
3761548.92        0.00024
         439402.35    3761548.92        0.00027                    439452.35
3761548.92        0.00030
         439502.35    3761548.92        0.00033                    439552.35
3761548.92        0.00035
         439152.35    3761598.92        0.00018                    439202.35
3761598.92        0.00019
         439252.35    3761598.92        0.00021                    439302.35
3761598.92        0.00023
         439352.35    3761598.92        0.00025                    439402.35
3761598.92        0.00028
         439452.35    3761598.92        0.00031                    439502.35
3761598.92        0.00034
         439552.35    3761598.92        0.00038                    439152.35
3761648.92        0.00019
         439202.35    3761648.92        0.00020                    439252.35
3761648.92        0.00022
         439302.35    3761648.92        0.00024                    439352.35
```

3761648.92 0.00026
 439402.35 3761648.92 0.00029 439452.35
3761648.92 0.00032
 439502.35 3761648.92 0.00036 439552.35
3761648.92 0.00040
 439152.35 3761698.92 0.00021 439202.35
3761698.92 0.00022
 439252.35 3761698.92 0.00023 439302.35
3761698.92 0.00025
 439352.35 3761698.92 0.00027 439402.35
3761698.92 0.00030

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	0.00034	439502.35	3761698.92	0.00038
439552.35	3761698.92	0.00042	439152.35	3761748.92	0.00022
439202.35	3761748.92	0.00023	439252.35	3761748.92	0.00025
439302.35	3761748.92	0.00027	439352.35	3761748.92	0.00029
439402.35	3761748.92	0.00032	439452.35	3761748.92	0.00035
439502.35	3761748.92	0.00040	439552.35	3761748.92	0.00045
439152.35	3761798.92	0.00024	439202.35	3761798.92	0.00025
439252.35	3761798.92	0.00027	439302.35	3761798.92	0.00029
439352.35	3761798.92	0.00031	439402.35		

3761798.92 0.00034
439452.35 3761798.92 0.00037 439502.35
3761798.92 0.00042
439552.35 3761798.92 0.00047 439152.35
3761848.92 0.00027
439202.35 3761848.92 0.00028 439252.35
3761848.92 0.00029
439302.35 3761848.92 0.00031 439352.35
3761848.92 0.00034
439402.35 3761848.92 0.00037 439452.35
3761848.92 0.00040
439502.35 3761848.92 0.00045 439552.35
3761848.92 0.00051
439152.35 3761898.92 0.00029 439202.35
3761898.92 0.00031
439252.35 3761898.92 0.00032 439302.35
3761898.92 0.00034
439352.35 3761898.92 0.00037 439402.35
3761898.92 0.00040
439452.35 3761898.92 0.00044 439502.35
3761898.92 0.00049
439552.35 3761898.92 0.00055 439152.35
3761948.92 0.00032
439202.35 3761948.92 0.00034 439252.35
3761948.92 0.00036
439302.35 3761948.92 0.00038 439352.35
3761948.92 0.00041
439402.35 3761948.92 0.00044 439452.35
3761948.92 0.00048
439502.35 3761948.92 0.00054 439552.35
3761948.92 0.00061
439152.35 3761998.92 0.00035 439202.35
3761998.92 0.00037
439252.35 3761998.92 0.00040 439302.35
3761998.92 0.00042
439352.35 3761998.92 0.00045 439402.35
3761998.92 0.00049
439452.35 3761998.92 0.00054 439502.35
3761998.92 0.00060
439552.35 3761998.92 0.00068 439152.35
3762048.92 0.00038
439202.35 3762048.92 0.00041 439252.35
3762048.92 0.00044
439302.35 3762048.92 0.00047 439352.35
3762048.92 0.00051
439402.35 3762048.92 0.00055 439452.35
3762048.92 0.00061
439502.35 3762048.92 0.00068 439552.35
3762048.92 0.00076
439616.61 3761420.65 0.00032 439666.61
3761420.65 0.00032

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761420.65	0.00032	439766.61	3761420.65	0.00031
439816.61	3761420.65	0.00031	439866.61	3761420.65	0.00030
439616.61	3761470.65	0.00034	439666.61	3761470.65	0.00035
439716.61	3761470.65	0.00035	439766.61	3761470.65	0.00035
439816.61	3761470.65	0.00034	439866.61	3761470.65	0.00033
439616.61	3761520.65	0.00037	439666.61	3761520.65	0.00038
439716.61	3761520.65	0.00039	439766.61	3761520.65	0.00039
439816.61	3761520.65	0.00039	439866.61	3761520.65	0.00038
439616.61	3761570.65	0.00040	439666.61	3761570.65	0.00042
439716.61	3761570.65	0.00043	439766.61	3761570.65	0.00044
439816.61	3761570.65	0.00043	439866.61	3761570.65	0.00043
440451.14	3762893.83	0.01488	440501.14	3762893.83	0.01294
440551.14	3762893.83	0.01121	440601.14	3762893.83	0.00971
440651.14	3762893.83	0.00846	440701.14	3762893.83	0.00741

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         440751.14    3762893.83        0.00656                    440801.14
3762893.83        0.00582
         440851.14    3762893.83        0.00521                    440451.14
3762943.83        0.00946
         440501.14    3762943.83        0.00882                    440551.14
3762943.83        0.00811
         440601.14    3762943.83        0.00735                    440651.14
3762943.83        0.00666
         440701.14    3762943.83        0.00602                    440751.14
3762943.83        0.00546
         440801.14    3762943.83        0.00493                    440851.14
3762943.83        0.00446
         441116.67    3763135.31        0.00176                    441166.67
3763135.31        0.00168
         441116.67    3763185.31        0.00154                    441166.67
3763185.31        0.00148
         441116.67    3763235.31        0.00134                    441166.67
3763235.31        0.00129
         441116.67    3763285.31        0.00116                    441166.67
3763285.31        0.00113
         441116.67    3763335.31        0.00101                    441166.67
3763335.31        0.00099
         441116.67    3763385.31        0.00089                    441166.67
3763385.31        0.00087
         441116.67    3763435.31        0.00078                    441166.67
3763435.31        0.00077
         440433.43    3762815.13        0.03218                    440483.43
3762815.13        0.02365
         440533.43    3762815.13        0.01836                    440583.43
3762815.13        0.01474
         440633.43    3762815.13        0.01215                    440683.43
3762815.13        0.01023
         440733.43    3762815.13        0.00874                    440783.43
3762815.13        0.00756
         440833.43    3762815.13        0.00661                    440883.43
3762815.13        0.00582
         440933.43    3762815.13        0.00517                    440983.43
3762815.13        0.00462
         440433.43    3762865.13        0.02080                    440483.43
3762865.13        0.01707
         440533.43    3762865.13        0.01415                    440583.43
3762865.13        0.01188
         440633.43    3762865.13        0.01010                    440683.43
3762865.13        0.00869
         440733.43    3762865.13        0.00755                    440783.43
3762865.13        0.00663
         440833.43    3762865.13        0.00586                    440883.43
3762865.13        0.00522
         440933.43    3762865.13        0.00468                    440983.43
3762865.13        0.00421
         441118.27    3762686.02        0.00393                    441168.27
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3762686.02   0.00355
         441118.27   3762736.02   0.00380   441168.27
3762736.02   0.00344
         441118.27   3762786.02   0.00362   441168.27
3762786.02   0.00328
         441118.27   3762836.02   0.00339   441168.27
3762836.02   0.00309
         440411.67   3762093.41   0.00424   440461.67
3762093.41   0.00390
         440511.67   3762093.41   0.00361   440561.67
3762093.41   0.00336
         440611.67   3762093.41   0.00314   440411.67
3762143.41   0.00588

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN   ***
                                   INCLUDING SOURCE(S):   PAREA1   , PAREA2
, PAREA3   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         440461.67   3762143.41   0.00522   440511.67
3762143.41   0.00471
         440561.67   3762143.41   0.00430   440611.67
3762143.41   0.00396
         440406.61   3762008.86   0.00241   440456.61
3762008.86   0.00234
         440506.61   3762008.86   0.00226   440556.61
3762008.86   0.00218
         440606.61   3762008.86   0.00210   440656.61
3762008.86   0.00202
         440706.61   3762008.86   0.00194   440756.61
3762008.86   0.00186
         440806.61   3762008.86   0.00179   440856.61
3762008.86   0.00172
         440906.61   3762008.86   0.00165   440956.61

```
3762008.86        0.00159
         441006.61    3762008.86        0.00153                    441056.61
3762008.86        0.00147
         441106.61    3762008.86        0.00142                    441156.61
3762008.86        0.00136
         440406.61    3762058.86        0.00337                    440456.61
3762058.86        0.00318
         440506.61    3762058.86        0.00300                    440556.61
3762058.86        0.00283
         440606.61    3762058.86        0.00268                    440656.61
3762058.86        0.00254
         440706.61    3762058.86        0.00240                    440756.61
3762058.86        0.00228
         440806.61    3762058.86        0.00217                    440856.61
3762058.86        0.00207
         440906.61    3762058.86        0.00197                    440956.61
3762058.86        0.00187
         441006.61    3762058.86        0.00179                    441056.61
3762058.86        0.00171
         441106.61    3762058.86        0.00163                    441156.61
3762058.86        0.00156
         440191.38    3762138.44        0.01230                    440241.38
3762138.44        0.01026
         440291.38    3762138.44        0.00833                    440341.38
3762138.44        0.00698
         440191.38    3762188.44        0.03572                    440241.38
3762188.44        0.01908
         440291.38    3762188.44        0.01291                    440341.38
3762188.44        0.00992
         440191.38    3762238.44        0.04595                    440241.38
3762238.44        0.02485
         440291.38    3762238.44        0.01682                    440341.38
3762238.44        0.01292
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:47:09

                                   PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0011959    , L0011960
, L0011961    , L0011962    , L0011963    ,
                  L0011964    , L0011953    , L0011954    , L0011955    , L0011965
, L0011966    , L0011967    , L0011968    ,
                  L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                  L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	3.92205	439943.36	3761716.33	18.98095
439170.17	3763092.51	2.82178	439220.17	3763092.51	3.00689
439270.17	3763092.51	3.24813	439320.17	3763092.51	3.50838
439370.17	3763092.51	3.81505	439420.17	3763092.51	4.17937
439470.17	3763092.51	4.62184	439520.17	3763092.51	5.11498
439570.17	3763092.51	5.69711	439620.17	3763092.51	6.38775
439670.17	3763092.51	7.26327	439720.17	3763092.51	8.45774
439770.17	3763092.51	10.23110	439820.17	3763092.51	13.39708
439870.17	3763092.51	23.09698	439170.17	3763142.51	2.69439
439220.17	3763142.51	2.88038	439270.17	3763142.51	3.10757
439320.17	3763142.51	3.34418	439370.17	3763142.51	3.62784
439420.17	3763142.51	3.96582	439470.17	3763142.51	4.33466
439520.17	3763142.51	4.76889	439570.17	3763142.51	5.31484
439620.17	3763142.51	5.96004	439670.17	3763142.51	6.74666
439720.17	3763142.51	7.82503	439770.17	3763142.51	9.45060
439820.17	3763142.51	12.43690	439870.17	3763142.51	21.78439
439170.17	3763192.51	2.58014	439220.17	3763192.51	2.75692
439270.17	3763192.51	2.96729	439320.17	3763192.51	3.17745
439370.17	3763192.51	3.44117	439420.17	3763192.51	3.75254
439470.17	3763192.51	4.07904	439520.17	3763192.51	4.47455

```
         439570.17    3763192.51        4.95395                        439620.17
3763192.51        5.54406
         439670.17    3763192.51        6.23482                        439720.17
3763192.51        7.18328
         439770.17    3763192.51        8.66613                        439820.17
3763192.51       11.51372
         439870.17    3763192.51       20.57403                        439170.17
3763242.51        2.46052
         439220.17    3763242.51        2.62588                        439270.17
3763242.51        2.82049
         439320.17    3763242.51        3.02433                        439370.17
3763242.51        3.26220
         439420.17    3763242.51        3.53074                        439470.17
3763242.51        3.81599
         439520.17    3763242.51        4.17206                        439570.17
3763242.51        4.60347
         439620.17    3763242.51        5.13461                        439670.17
3763242.51        5.76891
         439720.17    3763242.51        6.61917                        439770.17
3763242.51        7.98647
         439820.17    3763242.51       10.63590                        439870.17
3763242.51       19.38216
         439170.17    3763292.51        2.33016                        439220.17
3763292.51        2.44832
         439270.17    3763292.51        2.61964                        439320.17
3763292.51        2.82245
         439370.17    3763292.51        3.06124                        439420.17
3763292.51        3.27686
         439470.17    3763292.51        3.52187                        439520.17
3763292.51        3.81655
         439570.17    3763292.51        4.24707                        439620.17
3763292.51        4.69730
         439670.17    3763292.51        5.28534                        439720.17
3763292.51        6.04702
         439770.17    3763292.51        7.19456                        439820.17
3763292.51        9.76595
         439870.17    3763292.51       18.33047                        439170.17
3763342.51        2.19383
         439220.17    3763342.51        2.30392                        439270.17
3763342.51        2.48690
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      22:47:09

                                   PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0011959    , L0011960
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```
, L0011961    , L0011962    , L0011963    ,
                L0011964    , L0011953    , L0011954    , L0011955    , L0011965
, L0011966    , L0011967    , L0011968    ,
                L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
         439320.17    3763342.51        2.66308                      439370.17
3763342.51        2.87757
         439420.17    3763342.51        3.06486                      439470.17
3763342.51        3.27478
         439520.17    3763342.51        3.52822                      439570.17
3763342.51        3.88012
         439620.17    3763342.51        4.30919                      439670.17
3763342.51        4.80096
         439720.17    3763342.51        5.45748                      439770.17
3763342.51        6.51727
         439820.17    3763342.51        8.95053                      439870.17
3763342.51       17.25667
         439170.17    3763392.51        2.05169                      439220.17
3763392.51        2.14890
         439270.17    3763392.51        2.33837                      439320.17
3763392.51        2.45535
         439370.17    3763392.51        2.64349                      439420.17
3763392.51        2.77634
         439470.17    3763392.51        2.93895                      439520.17
3763392.51        3.22947
         439570.17    3763392.51        3.53738                      439620.17
3763392.51        3.91412
         439670.17    3763392.51        4.26400                      439720.17
3763392.51        4.86950
         439770.17    3763392.51        5.81991                      439820.17
3763392.51        7.98986
         439870.17    3763392.51       15.85505                      439170.17
3763442.51        1.90857
         439220.17    3763442.51        2.00783                      439270.17
3763442.51        2.16936
         439320.17    3763442.51        2.29400                      439370.17
3763442.51        2.41895
         439420.17    3763442.51        2.57195                      439470.17
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3763442.51        2.71836
         439520.17    3763442.51        2.95085                     439570.17
3763442.51        3.18449
         439620.17    3763442.51        3.47784                     439670.17
3763442.51        3.79921
         439720.17    3763442.51        4.27316                     439770.17
3763442.51        5.01856
         439820.17    3763442.51        6.66618                     439870.17
3763442.51       13.08940
         439203.20    3762911.16        3.40597                     439253.20
3762911.16        3.68920
         439303.20    3762911.16        4.02609                     439353.20
3762911.16        4.44340
         439403.20    3762911.16        4.89704                     439453.20
3762911.16        5.43364
         439503.20    3762911.16        6.08007                     439553.20
3762911.16        6.84588
         439203.20    3762961.16        3.29188                     439253.20
3762961.16        3.56645
         439303.20    3762961.16        3.87632                     439353.20
3762961.16        4.25037
         439403.20    3762961.16        4.68498                     439453.20
3762961.16        5.17730
         439503.20    3762961.16        5.78452                     439553.20
3762961.16        6.48867
         439203.20    3763011.16        3.16022                     439253.20
3763011.16        3.41245
         439303.20    3763011.16        3.70164                     439353.20
3763011.16        4.03469
         439403.20    3763011.16        4.47929                     439453.20
3763011.16        4.92854
         439503.20    3763011.16        5.49052                     439553.20
3763011.16        6.10957
         439203.20    3763061.16        3.03533                     439253.20
3763061.16        3.24664
         439303.20    3763061.16        3.50944                     439353.20
3763061.16        3.81327
         439403.20    3763061.16        4.17876                     439453.20
3763061.16        4.61553
         439503.20    3763061.16        5.14465                     439553.20
3763061.16        5.70996
         439196.01    3762392.48        3.83212                     439246.01
3762392.48        4.18871
         439296.01    3762392.48        4.60111                     439346.01
3762392.48        5.08299
         439396.01    3762392.48        5.65312                     439446.01
3762392.48        6.33197
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:47:09
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 , L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 , L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 , L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	7.15862	439546.01	3762392.48	8.18188
439196.01	3762442.48	3.84984	439246.01	3762442.48	4.21078
439296.01	3762442.48	4.62982	439346.01	3762442.48	5.12036
439396.01	3762442.48	5.70112	439446.01	3762442.48	6.39778
439496.01	3762442.48	7.24412	439546.01	3762442.48	8.29191
439196.01	3762492.48	3.85408	439246.01	3762492.48	4.21806
439296.01	3762492.48	4.63959	439346.01	3762492.48	5.13364
439396.01	3762492.48	5.71928	439446.01	3762492.48	6.42162
439496.01	3762492.48	7.27852	439546.01	3762492.48	8.33855
439196.01	3762542.48	3.84502	439246.01	3762542.48	4.20840
439296.01	3762542.48	4.63048	439346.01	3762542.48	5.12452
439396.01	3762542.48	5.70959	439446.01	3762542.48	6.41250
439496.01	3762542.48	7.26541	439546.01	3762542.48	8.32482

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         439196.01    3762592.48        3.82248                    439246.01
3762592.48        4.18183
         439296.01    3762592.48        4.60142                    439346.01
3762592.48        5.09232
         439396.01    3762592.48        5.67226                    439446.01
3762592.48        6.36714
         439496.01    3762592.48        7.21131                    439546.01
3762592.48        8.25789
         439196.01    3762642.48        3.78545                    439246.01
3762642.48        4.13573
         439296.01    3762642.48        4.55505                    439346.01
3762642.48        5.03855
         439396.01    3762642.48        5.60815                    439446.01
3762642.48        6.29049
         439496.01    3762642.48        7.11092                    439546.01
3762642.48        8.13078
         439196.01    3762692.48        3.73076                    439246.01
3762692.48        4.07798
         439296.01    3762692.48        4.47911                    439346.01
3762692.48        4.95237
         439396.01    3762692.48        5.51732                    439446.01
3762692.48        6.17679
         439496.01    3762692.48        6.97213                    439546.01
3762692.48        7.95756
         439196.01    3762742.48        3.66611                    439246.01
3762742.48        4.00625
         439296.01    3762742.48        4.39450                    439346.01
3762742.48        4.85170
         439396.01    3762742.48        5.38860                    439446.01
3762742.48        6.02701
         439496.01    3762742.48        6.78956                    439546.01
3762742.48        7.73625
         439196.01    3762792.48        3.58743                    439246.01
3762792.48        3.92278
         439296.01    3762792.48        4.29324                    439346.01
3762792.48        4.72941
         439396.01    3762792.48        5.24263                    439446.01
3762792.48        5.85347
         439496.01    3762792.48        6.57994                    439546.01
3762792.48        7.47335
         439196.01    3762842.48        3.50153                    439246.01
3762842.48        3.82277
         439296.01    3762842.48        4.18220                    439346.01
3762842.48        4.59878
         439396.01    3762842.48        5.08307                    439446.01
3762842.48        5.65998
         439496.01    3762842.48        6.33880                    439546.01
3762842.48        7.16497
         439573.31    3762470.54        9.01419                    439623.31
3762470.54       10.55595
         439673.31    3762470.54       12.60891                    439723.31
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0011959   , L0011960
, L0011961   , L0011962   , L0011963   ,
                  L0011964   , L0011953   , L0011954   , L0011955   , L0011965
, L0011966   , L0011967   , L0011968   ,
                  L0011969   , L0011970   , L0011971   , L0011972   , L0011973
, L0011974   , L0011975   , L0011976   ,
                  L0011977   , L0011978   , L0011979   , L0011980   , L0011981
, L0011982   , L0011983   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439873.31   3762470.54   40.94793   439573.31
3762520.54   9.02895
         439623.31   3762520.54   10.57166   439673.31
3762520.54   12.61718
         439723.31   3762520.54   15.44367   439773.31
3762520.54   19.60994
         439823.31   3762520.54   26.55641   439873.31
3762520.54   39.60595
         439573.31   3762570.54   8.98026   439623.31
3762570.54   10.50705
         439673.31   3762570.54   12.50866   439723.31
3762570.54   15.26686
         439773.31   3762570.54   19.28654   439823.31
3762570.54   25.89085
         439873.31   3762570.54   37.38834   439573.31
3762620.54   8.86678
         439623.31   3762620.54   10.35295   439673.31
3762620.54   12.31403
         439723.31   3762620.54   14.98849   439773.31

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3762620.54       18.86736
         439823.31    3762620.54       25.21623                       439873.31
3762620.54       35.87360
         439573.31    3762670.54        8.69254                       439623.31
3762670.54       10.13083
         439673.31    3762670.54       12.02716                       439723.31
3762670.54       14.61450
         439773.31    3762670.54       18.38119                       439823.31
3762670.54       24.61201
         439873.31    3762670.54       35.04018                       439152.35
3761448.92        2.12691
         439202.35    3761448.92        2.22378                       439252.35
3761448.92        2.33319
         439302.35    3761448.92        2.45175                       439352.35
3761448.92        2.58208
         439402.35    3761448.92        2.72635                       439452.35
3761448.92        2.88742
         439502.35    3761448.92        3.07579                       439552.35
3761448.92        3.29017
         439152.35    3761498.92        2.21698                       439202.35
3761498.92        2.32797
         439252.35    3761498.92        2.45225                       439302.35
3761498.92        2.57849
         439352.35    3761498.92        2.71936                       439402.35
3761498.92        2.87708
         439452.35    3761498.92        3.05527                       439502.35
3761498.92        3.26895
         439552.35    3761498.92        3.51640                       439152.35
3761548.92        2.30849
         439202.35    3761548.92        2.42877                       439252.35
3761548.92        2.56218
         439302.35    3761548.92        2.70110                       439352.35
3761548.92        2.85352
         439402.35    3761548.92        3.03067                       439452.35
3761548.92        3.23064
         439502.35    3761548.92        3.46357                       439552.35
3761548.92        3.74415
         439152.35    3761598.92        2.40094                       439202.35
3761598.92        2.52957
         439252.35    3761598.92        2.67384                       439302.35
3761598.92        2.83009
         439352.35    3761598.92        2.99720                       439402.35
3761598.92        3.19330
         439452.35    3761598.92        3.41673                       439502.35
3761598.92        3.67002
         439552.35    3761598.92        3.98180                       439152.35
3761648.92        2.49278
         439202.35    3761648.92        2.63416                       439252.35
3761648.92        2.79151
         439302.35    3761648.92        2.96361                       439352.35
3761648.92        3.15052
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 , L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 , L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 , L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439402.35	3761648.92	3.36498	439452.35	3761648.92	3.60734
439502.35	3761648.92	3.89218	439552.35	3761648.92	4.23071
439152.35	3761698.92	2.58563	439202.35	3761698.92	2.73782
439252.35	3761698.92	2.90450	439302.35	3761698.92	3.09332
439352.35	3761698.92	3.30400	439402.35	3761698.92	3.54218
439452.35	3761698.92	3.79864	439502.35	3761698.92	4.11322
439552.35	3761698.92	4.48403	439152.35	3761748.92	2.67660
439202.35	3761748.92	2.84312	439252.35	3761748.92	3.02065
439302.35	3761748.92	3.22657	439352.35	3761748.92	3.45332
439402.35	3761748.92	3.70942	439452.35	3761748.92	3.99495
439502.35	3761748.92	4.32287	439552.35	3761748.92	4.72811

```
         439152.35    3761798.92        2.76782                    439202.35
3761798.92        2.94908
         439252.35    3761798.92        3.14462                    439302.35
3761798.92        3.36865
         439352.35    3761798.92        3.60787                    439402.35
3761798.92        3.88293
         439452.35    3761798.92        4.20334                    439502.35
3761798.92        4.55304
         439552.35    3761798.92        4.99225                    439152.35
3761848.92        2.85893
         439202.35    3761848.92        3.05240                    439252.35
3761848.92        3.26151
         439302.35    3761848.92        3.50040                    439352.35
3761848.92        3.75973
         439402.35    3761848.92        4.06878                    439452.35
3761848.92        4.41049
         439502.35    3761848.92        4.78956                    439552.35
3761848.92        5.26587
         439152.35    3761898.92        2.95027                    439202.35
3761898.92        3.15521
         439252.35    3761898.92        3.37927                    439302.35
3761898.92        3.64234
         439352.35    3761898.92        3.92802                    439402.35
3761898.92        4.25192
         439452.35    3761898.92        4.63401                    439502.35
3761898.92        5.06380
         439552.35    3761898.92        5.56967                    439152.35
3761948.92        3.03776
         439202.35    3761948.92        3.25503                    439252.35
3761948.92        3.49389
         439302.35    3761948.92        3.77797                    439352.35
3761948.92        4.09043
         439402.35    3761948.92        4.43850                    439452.35
3761948.92        4.85435
         439502.35    3761948.92        5.32898                    439552.35
3761948.92        5.88399
         439152.35    3761998.92        3.12214                    439202.35
3761998.92        3.35079
         439252.35    3761998.92        3.60507                    439302.35
3761998.92        3.90949
         439352.35    3761998.92        4.25004                    439402.35
3761998.92        4.62400
         439452.35    3761998.92        5.06621                    439502.35
3761998.92        5.57969
         439552.35    3761998.92        6.18854                    439152.35
3762048.92        3.20270
         439202.35    3762048.92        3.45039                    439252.35
3762048.92        3.72824
         439302.35    3762048.92        4.04358                    439352.35
3762048.92        4.40204
         439402.35    3762048.92        4.80933                    439452.35
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 ,
L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 ,
L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 ,
L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	5.14836	439766.61	3761520.65	6.24570
439816.61	3761520.65	8.53476	439866.61	3761520.65	16.81575
439616.61	3761570.65	4.32847	439666.61		

```
3761570.65        4.84100
         439716.61    3761570.65        5.58320                    439766.61
3761570.65        6.81112
         439816.61    3761570.65        9.31406                    439866.61
3761570.65       17.77113
         440451.14    3762893.83       25.46586                    440501.14
3762893.83       21.59500
         440551.14    3762893.83       18.70089                    440601.14
3762893.83       16.41091
         440651.14    3762893.83       14.56969                    440701.14
3762893.83       13.05198
         440751.14    3762893.83       11.78107                    440801.14
3762893.83       10.69123
         440851.14    3762893.83        9.75071                    440451.14
3762943.83       19.63138
         440501.14    3762943.83       17.54128                    440551.14
3762943.83       15.76254
         440601.14    3762943.83       14.20338                    440651.14
3762943.83       12.88177
         440701.14    3762943.83       11.73651                    440751.14
3762943.83       10.74748
         440801.14    3762943.83        9.86192                    440851.14
3762943.83        9.08126
         441116.67    3763135.31        4.96525                    441166.67
3763135.31        4.73677
         441116.67    3763185.31        4.62983                    441166.67
3763185.31        4.43925
         441116.67    3763235.31        4.29658                    441166.67
3763235.31        4.13998
         441116.67    3763285.31        3.98866                    441166.67
3763285.31        3.86428
         441116.67    3763335.31        3.66270                    441166.67
3763335.31        3.57729
         441116.67    3763385.31        3.35541                    441166.67
3763385.31        3.29355
         441116.67    3763435.31        3.06628                    441166.67
3763435.31        3.02281
         440433.43    3762815.13       39.04973                    440483.43
3762815.13       30.11396
         440533.43    3762815.13       24.60133                    440583.43
3762815.13       20.67753
         440633.43    3762815.13       17.75949                    440683.43
3762815.13       15.48720
         440733.43    3762815.13       13.67465                    440783.43
3762815.13       12.18573
         440833.43    3762815.13       10.97722                    440883.43
3762815.13        9.94128
         440933.43    3762815.13        9.03121                    440983.43
3762815.13        8.27037
         440433.43    3762865.13       31.71406                    440483.43
3762865.13       25.65027
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         440533.43    3762865.13       21.56090                      440583.43
3762865.13       18.54042
         440633.43    3762865.13       16.20102                      440683.43
3762865.13       14.33380
         440733.43    3762865.13       12.79968                      440783.43
3762865.13       11.52102
         440833.43    3762865.13       10.43281                      440883.43
3762865.13        9.48734
         440933.43    3762865.13        8.68225                      440983.43
3762865.13        7.98374
         441118.27    3762686.02        6.88289                      441168.27
3762686.02        6.39224
         441118.27    3762736.02        6.85080                      441168.27
3762736.02        6.35366
         441118.27    3762786.02        6.75193                      441168.27
3762786.02        6.27508
         441118.27    3762836.02        6.60095                      441168.27
3762836.02        6.14378
         440411.67    3762093.41       27.80758                      440461.67
3762093.41       22.97605
         440511.67    3762093.41       21.44518                      440561.67
3762093.41       20.50771
         440611.67    3762093.41       19.80094                      440411.67
3762143.41       23.71053
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:47:09

                                  PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                  INCLUDING SOURCE(S):     L0011959    , L0011960
, L0011961    , L0011962    , L0011963    ,
                  L0011964    , L0011953    , L0011954    , L0011955    , L0011965
, L0011966    , L0011967    , L0011968    ,
                  L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                  L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	12.15832	(12020717)	439943.36	3761716.33	19.48203	(13031420)
439170.17	3763092.51	13.75873	(15112017)	439220.17	3763092.51	14.49224	(15112017)
439270.17	3763092.51	15.16854	(15112017)	439320.17	3763092.51	16.10008	(15090919)
439370.17	3763092.51	17.10745	(15090919)	439420.17	3763092.51	18.05535	(15090919)
439470.17	3763092.51	18.83634	(15021103)	439520.17	3763092.51	20.10820	(16122818)
439570.17	3763092.51	21.47896	(15031221)	439620.17	3763092.51	23.55348	(15031221)
439670.17	3763092.51	25.10440	(15031221)	439720.17	3763092.51	26.71054	(13101603)
439770.17	3763092.51	28.73183	(14010619)	439820.17	3763092.51	31.12422	(15120218)
439870.17	3763092.51	33.54351	(15072002)	439170.17	3763142.51	13.53141	(15090919)
439220.17	3763142.51	14.22806	(15090919)	439270.17	3763142.51	14.93147	(15090919)
439320.17	3763142.51	15.55505	(15090919)	439370.17	3763142.51	16.19251	(15021103)
439420.17	3763142.51	17.15708	(16122818)	439470.17			

```
3763142.51       18.12381  (16122818)
        439520.17   3763142.51       19.60366  (15031221)                439570.17
3763142.51       20.95161  (15031221)
        439620.17   3763142.51       21.88859  (13101603)                439670.17
3763142.51       23.31862  (13101603)
        439720.17   3763142.51       25.24591  (14010619)                439770.17
3763142.51       27.20184  (15120218)
        439820.17   3763142.51       29.13364  (15012819)                439870.17
3763142.51       31.15917  (16102019)
        439170.17   3763192.51       13.23027  (15090919)                439220.17
3763192.51       13.68688  (15090919)
        439270.17   3763192.51       14.21313  (15021103)                439320.17
3763192.51       15.01037  (16122818)
        439370.17   3763192.51       15.70367  (16122818)                439420.17
3763192.51       16.74066  (15031221)
        439470.17   3763192.51       17.85886  (15031221)                439520.17
3763192.51       18.70622  (15031221)
        439570.17   3763192.51       19.67097  (13101603)                439620.17
3763192.51       20.70289  (14010619)
        439670.17   3763192.51       22.45877  (12010118)                439720.17
3763192.51       24.45318  (15060905)
        439770.17   3763192.51       26.06016  (15012819)                439820.17
3763192.51       27.72378  (16102019)
        439870.17   3763192.51       29.24750  (16110921)                439170.17
3763242.51       12.80637  (16122818)
        439220.17   3763242.51       13.36746  (16122818)                439270.17
3763242.51       13.88273  (15031221)
        439320.17   3763242.51       14.73641  (15031221)                439370.17
3763242.51       15.56523  (15031221)
        439420.17   3763242.51       16.28761  (15031221)                439470.17
3763242.51       17.03222  (13101603)
        439520.17   3763242.51       17.94387  (13101603)                439570.17
3763242.51       18.94241  (14010619)
        439620.17   3763242.51       19.96000  (12010118)                439670.17
3763242.51       21.62577  (15060905)
        439720.17   3763242.51       23.18496  (15012819)                439770.17
3763242.51       24.82057  (16102019)
        439820.17   3763242.51       27.96532  (16102019)                439870.17
3763242.51       29.80803  (16111720)
        439170.17   3763292.51       13.12006  (15031221)                439220.17
3763292.51       14.03454  (15031221)
        439270.17   3763292.51       14.63625  (15031221)                439320.17
3763292.51       15.00382  (15031221)
        439370.17   3763292.51       15.13541  (13101603)                439420.17
3763292.51       16.15243  (15120219)
        439470.17   3763292.51       17.09524  (13101421)                439520.17
3763292.51       18.11038  (16102418)
        439570.17   3763292.51       18.52913  (15120218)                439620.17
3763292.51       19.84489  (15060905)
        439670.17   3763292.51       20.86023  (15012819)                439720.17
3763292.51       22.35007  (16102019)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	14.59483	(15120219)	439370.17	3763342.51	14.97241	(15120219)
439420.17	3763342.51	15.86978	(16102418)	439470.17	3763342.51	16.75174	(16102418)
439520.17	3763342.51	17.61642	(15060905)	439570.17	3763342.51	18.50797	(15060905)
439620.17	3763342.51	19.06455	(15012819)	439670.17	3763342.51	20.17625	(15072002)
439720.17	3763342.51	23.26219	(16102019)	439770.17	3763342.51	25.23868	(14091524)
439820.17	3763342.51	26.60986	(15100921)	439870.17	3763342.51	28.22195	(15101219)
439170.17	3763392.51	13.84500	(15031221)	439220.17	3763392.51	14.78435	(12020718)
439270.17	3763392.51	14.04657	(15120219)	439320.17	3763392.51	15.42680	(13101421)

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        439370.17   3763392.51       15.33573  (16102418)              439420.17
3763392.51       17.20813  (16102418)
        439470.17   3763392.51       18.14754  (15070104)              439520.17
3763392.51       18.56959  (15060905)
        439570.17   3763392.51       18.62830  (15060905)              439620.17
3763392.51       18.65185  (16102019)
        439670.17   3763392.51       21.51700  (16102019)              439720.17
3763392.51       22.42564  (13050222)
        439770.17   3763392.51       24.21450  (14091524)              439820.17
3763392.51       25.82824  (15100921)
        439870.17   3763392.51       27.06901  (15101219)              439170.17
3763442.51       14.49307  (15101220)
        439220.17   3763442.51       14.96724  (15101220)              439270.17
3763442.51       14.95749  (13101421)
        439320.17   3763442.51       15.57649  (13101421)              439370.17
3763442.51       16.23842  (15102306)
        439420.17   3763442.51       16.88625  (15070104)              439470.17
3763442.51       18.08321  (15070104)
        439520.17   3763442.51       18.40883  (14010617)              439570.17
3763442.51       19.16652  (15031521)
        439620.17   3763442.51       19.91392  (16102019)              439670.17
3763442.51       21.00172  (16102019)
        439720.17   3763442.51       21.99437  (14091524)              439770.17
3763442.51       23.46459  (15100921)
        439820.17   3763442.51       24.86937  (15100921)              439870.17
3763442.51       25.70488  (15101219)
        439203.20   3762911.16       15.27188  (15031224)              439253.20
3762911.16       16.13121  (15031224)
        439303.20   3762911.16       17.09861  (15031224)              439353.20
3762911.16       18.19466  (15031223)
        439403.20   3762911.16       19.50483  (15031223)              439453.20
3762911.16       21.15469  (15063019)
        439503.20   3762911.16       23.00419  (15063019)              439553.20
3762911.16       25.08201  (15063019)
        439203.20   3762961.16       15.15125  (15063019)              439253.20
3762961.16       16.08557  (15063019)
        439303.20   3762961.16       17.11483  (15063019)              439353.20
3762961.16       18.26721  (15063019)
        439403.20   3762961.16       19.49622  (15063019)              439453.20
3762961.16       20.74110  (15063019)
        439503.20   3762961.16       22.01967  (15063019)              439553.20
3762961.16       23.84687  (15112017)
        439203.20   3763011.16       15.05786  (15063019)              439253.20
3763011.16       15.79844  (15063019)
        439303.20   3763011.16       16.55558  (15063019)              439353.20
3763011.16       17.29006  (15063019)
        439403.20   3763011.16       18.61198  (15112017)              439453.20
3763011.16       19.96441  (15112017)
        439503.20   3763011.16       21.35184  (15090919)              439553.20
3763011.16       23.19632  (15090919)
        439203.20   3763061.16       14.27483  (16122919)              439253.20
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3763061.16   15.08916 (15112017)
        439303.20   3763061.16   16.02380 (15112017)   439353.20
3763061.16   16.93093 (15112017)
        439403.20   3763061.16   18.05193 (15090919)   439453.20
3763061.16   19.28587 (15090919)
        439503.20   3763061.16   20.50435 (15090919)   439553.20
3763061.16   21.61045 (15021103)
        439196.01   3762392.48   16.26875 (15030621)   439246.01
3762392.48   17.18160 (14051419)
        439296.01   3762392.48   18.32474 (14051419)   439346.01
3762392.48   19.50885 (14051419)
        439396.01   3762392.48   20.73226 (14051419)   439446.01
3762392.48   21.98607 (14051419)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN ***
                                   INCLUDING SOURCE(S):   L0013092   , L0013093
, L0013094   , L0013095   , L0013096   ,
                  L0013097   , L0013098   , L0013099   , L0013100   , L0013101
, L0013102   , L0013103   , L0013104   ,
                  L0013105   , L0013106   , L0013107   , L0013108   , L0013109
, L0013110   , L0013111   , L0013112   ,
                  L0013113   , L0013114   , L0013115   , L0013116   , L0013117
, L0013118   , L0013119   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439496.01   3762392.48   23.47354 (16092601)   439546.01
3762392.48   25.34323 (16092601)
        439196.01   3762442.48   16.06590 (13012017)   439246.01
3762442.48   16.99677 (15030621)
        439296.01   3762442.48   18.10597 (15030621)   439346.01
3762442.48   19.22568 (15030621)
        439396.01   3762442.48   20.43638 (14051419)   439446.01
3762442.48   21.97090 (14051419)
        439496.01   3762442.48   23.56441 (14051419)   439546.01

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3762442.48       25.24942  (14051419)
        439196.01   3762492.48       16.33553  (15100918)                439246.01
3762492.48       17.13774  (15100918)
        439296.01   3762492.48       18.01949  (15100918)                439346.01
3762492.48       19.00641  (13012017)
        439396.01   3762492.48       20.16356  (13012017)                439446.01
3762492.48       21.53458  (15030621)
        439496.01   3762492.48       23.12311  (15030621)                439546.01
3762492.48       24.98444  (14051419)
        439196.01   3762542.48       16.26934  (15100918)                439246.01
3762542.48       17.18764  (15100918)
        439296.01   3762542.48       18.20438  (15100918)                439346.01
3762542.48       19.27094  (15100918)
        439396.01   3762542.48       20.43300  (15100918)                439446.01
3762542.48       21.65591  (15100918)
        439496.01   3762542.48       23.03010  (15100918)                439546.01
3762542.48       24.64995  (13012017)
        439196.01   3762592.48       15.86303  (13101422)                439246.01
3762592.48       16.82048  (13101422)
        439296.01   3762592.48       17.83009  (13101422)                439346.01
3762592.48       18.90581  (13101422)
        439396.01   3762592.48       20.22745  (15100918)                439446.01
3762592.48       21.72146  (15100918)
        439496.01   3762592.48       23.43078  (15100918)                439546.01
3762592.48       25.21530  (15100918)
        439196.01   3762642.48       16.00132  (14020117)                439246.01
3762642.48       16.90875  (14020117)
        439296.01   3762642.48       17.84778  (14020117)                439346.01
3762642.48       18.87647  (14020117)
        439396.01   3762642.48       20.07772  (14011717)                439446.01
3762642.48       21.42584  (14011717)
        439496.01   3762642.48       22.99097  (14011717)                439546.01
3762642.48       24.79220  (13101422)
        439196.01   3762692.48       16.02152  (16102417)                439246.01
3762692.48       16.90739  (16102417)
        439296.01   3762692.48       17.89947  (16102417)                439346.01
3762692.48       18.97569  (16102417)
        439396.01   3762692.48       20.13173  (16102417)                439446.01
3762692.48       21.53255  (16102417)
        439496.01   3762692.48       23.21219  (16102417)                439546.01
3762692.48       25.13996  (14011717)
        439196.01   3762742.48       15.60577  (16122920)                439246.01
3762742.48       16.46262  (16122920)
        439296.01   3762742.48       17.45014  (16122920)                439346.01
3762742.48       18.53653  (16122920)
        439396.01   3762742.48       19.77566  (16122920)                439446.01
3762742.48       21.21076  (16122920)
        439496.01   3762742.48       22.95843  (16102417)                439546.01
3762742.48       24.96373  (16102417)
        439196.01   3762792.48       15.38077  (15051306)                439246.01
3762792.48       16.22703  (15051306)
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        439296.01   3762792.48       17.21742  (15051306)                439346.01
3762792.48       18.32416  (15051306)
        439396.01   3762792.48       19.58078  (15051306)                439446.01
3762792.48       21.01215  (15051306)
        439496.01   3762792.48       22.72933  (15051306)                439546.01
3762792.48       24.69979  (15051306)
        439196.01   3762842.48       15.26869  (13122517)                439246.01
3762842.48       16.14039  (13122517)
        439296.01   3762842.48       17.11612  (13122517)                439346.01
3762842.48       18.21192  (13122517)
        439396.01   3762842.48       19.45804  (13122517)                439446.01
3762842.48       20.88971  (15110717)
        439496.01   3762842.48       22.57699  (15110717)                439546.01
3762842.48       24.52152  (15031224)
        439573.31   3762470.54       26.17239  (14051419)                439623.31
3762470.54       28.30597  (14051419)
        439673.31   3762470.54       30.89629  (16092601)                439723.31
3762470.54       34.43226  (15031321)
        439773.31   3762470.54       39.25394  (14051322)                439823.31
3762470.54       48.00275  (15090919)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        22:47:09

                                    PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONRUN  ***
                                    INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439873.31   3762470.54       63.32288  (14033107)                439573.31
3762520.54       25.72042  (15030621)
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        439623.31   3762520.54       28.11918  (14051419)              439673.31
3762520.54       30.92857  (14051419)
        439723.31   3762520.54       34.25691  (14051419)              439773.31
3762520.54       38.57101  (14051419)
        439823.31   3762520.54       45.17764  (16092601)              439873.31
3762520.54       59.70110  (12101720)
        439573.31   3762570.54       25.89098  (15100918)              439623.31
3762570.54       27.90618  (13012017)
        439673.31   3762570.54       30.42816  (15030621)              439723.31
3762570.54       33.49926  (14051419)
        439773.31   3762570.54       37.16872  (14051419)              439823.31
3762570.54       41.40017  (14051419)
        439873.31   3762570.54       47.91645  (16061924)              439573.31
3762620.54       26.29808  (15100918)
        439623.31   3762620.54       28.69739  (15100918)              439673.31
3762620.54       31.32414  (15100918)
        439723.31   3762620.54       34.24285  (15100918)              439773.31
3762620.54       37.37818  (15100918)
        439823.31   3762620.54       41.12329  (15100918)              439873.31
3762620.54       46.60767  (15100918)
        439573.31   3762670.54       26.29727  (14011717)              439623.31
3762670.54       28.76244  (14011717)
        439673.31   3762670.54       31.46376  (14011717)              439723.31
3762670.54       34.93976  (15100918)
        439773.31   3762670.54       39.23585  (15100918)              439823.31
3762670.54       43.75738  (15100918)
        439873.31   3762670.54       48.69023  (14051419)              439152.35
3761448.92       10.59576  (12010822)
        439202.35   3761448.92       10.80737  (14110501)              439252.35
3761448.92       11.22230  (15031301)
        439302.35   3761448.92       11.45396  (13112508)              439352.35
3761448.92       11.59899  (14022807)
        439402.35   3761448.92       12.26450  (12110417)              439452.35
3761448.92       12.83911  (12110417)
        439502.35   3761448.92       13.09337  (13101517)              439552.35
3761448.92       13.05921  (16092523)
        439152.35   3761498.92       10.99835  (12010822)              439202.35
3761498.92       11.27648  (12010822)
        439252.35   3761498.92       11.62257  (14110501)              439302.35
3761498.92       12.04395  (15031301)
        439352.35   3761498.92       12.22562  (13112508)              439402.35
3761498.92       12.46146  (14022807)
        439452.35   3761498.92       13.28098  (12110417)              439502.35
3761498.92       13.75579  (12110417)
        439552.35   3761498.92       13.86285  (13101517)              439152.35
3761548.92       11.42186  (16021419)
        439202.35   3761548.92       11.73805  (12010822)              439252.35
3761548.92       12.03576  (12010822)
        439302.35   3761548.92       12.42130  (15031301)              439352.35
3761548.92       12.79639  (15031301)
        439402.35   3761548.92       12.99799  (14112323)              439452.35
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3761548.92       13.58162  (12110417)
        439502.35   3761548.92       14.38103  (12110417)                439552.35
3761548.92       14.73472  (13101517)
        439152.35   3761598.92       11.89665  (16021419)                439202.35
3761598.92       12.14351  (16021419)
        439252.35   3761598.92       12.54684  (12010822)                439302.35
3761598.92       12.86076  (14110501)
        439352.35   3761598.92       13.33040  (15031301)                439402.35
3761598.92       13.73233  (13112508)
        439452.35   3761598.92       13.97793  (14022807)                439502.35
3761598.92       14.90304  (12110417)
        439552.35   3761598.92       15.57948  (12110417)                439152.35
3761648.92       12.19029  (16020619)
        439202.35   3761648.92       12.67634  (16021419)                439252.35
3761648.92       13.01855  (16021419)
        439302.35   3761648.92       13.48761  (12010822)                439352.35
3761648.92       13.84503  (14110501)
        439402.35   3761648.92       14.47850  (15031301)                439452.35
3761648.92       14.84526  (13112508)
        439502.35   3761648.92       15.31288  (12110417)                439552.35
3761648.92       16.44669  (12110417)
        439152.35   3761698.92       12.67306  (14042901)                439202.35
3761698.92       13.01423  (16020619)
        439252.35   3761698.92       13.53924  (16021419)                439302.35
3761698.92       13.93446  (16021419)
        439352.35   3761698.92       14.52257  (12010822)                439402.35
3761698.92       15.04607  (14110501)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        22:47:09

                                    PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONRUN  ***
                                    INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	15.67521	(15031301)	439502.35	3761698.92	16.06899	(13112508)
439552.35	3761698.92	17.08772	(12110417)	439152.35	3761748.92	13.00505	(14042901)
439202.35	3761748.92	13.55106	(14042901)	439252.35	3761748.92	13.91468	(16020619)
439302.35	3761748.92	14.58336	(16021419)	439352.35	3761748.92	15.01674	(16021419)
439402.35	3761748.92	15.69151	(12010822)	439452.35	3761748.92	16.26569	(15031301)
439502.35	3761748.92	16.98035	(15031301)	439552.35	3761748.92	17.43056	(14022807)
439152.35	3761798.92	13.21844	(14043002)	439202.35	3761798.92	13.91038	(14042901)
439252.35	3761798.92	14.55654	(14042901)	439302.35	3761798.92	15.11236	(16020619)
439352.35	3761798.92	15.77673	(16021419)	439402.35	3761798.92	16.25574	(16021419)
439452.35	3761798.92	17.09178	(12010822)	439502.35	3761798.92	17.81231	(15031301)
439552.35	3761798.92	18.63288	(13112508)	439152.35	3761848.92	13.68932	(14043002)
439202.35	3761848.92	14.24769	(14043002)	439252.35	3761848.92	14.84790	(14042901)
439302.35	3761848.92	15.71189	(14042901)	439352.35	3761848.92	16.25147	(16020619)
439402.35	3761848.92	17.21481	(16021419)	439452.35	3761848.92	17.81951	(12010822)
439502.35	3761848.92	18.52600	(12010822)	439552.35	3761848.92	19.78222	(15031301)
439152.35	3761898.92	14.05869	(13101522)	439202.35	3761898.92	14.64950	(14043002)
439252.35	3761898.92	15.31342	(14043002)	439302.35	3761898.92	16.06659	(14042901)
439352.35	3761898.92	17.09463	(14042901)	439402.35	3761898.92	17.81449	(16020619)
439452.35	3761898.92	18.98306	(16021419)	439502.35	3761898.92	19.77781	(12010822)
439552.35	3761898.92	20.80449	(14110501)	439152.35	3761948.92	14.24070	(16101918)
439202.35	3761948.92	15.00113	(13101522)	439252.35	3761948.92	15.71924	(13101522)
439302.35	3761948.92	16.67998	(14043002)	439352.35	3761948.92	17.38332	(14043002)
439402.35	3761948.92	18.64629	(14042901)	439452.35	3761948.92	19.69320	(16020619)

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        439502.35   3761948.92       21.07379  (16021419)                439552.35
3761948.92       22.17258  (12010822)
        439152.35   3761998.92       14.72607  (16101918)                439202.35
3761998.92       15.35669  (16101918)
        439252.35   3761998.92       15.92233  (13101522)                439302.35
3761998.92       17.11060  (13101522)
        439352.35   3761998.92       18.17047  (14043002)                439402.35
3761998.92       19.04666  (14043002)
        439452.35   3761998.92       20.51738  (14042901)                439502.35
3761998.92       21.77005  (14042901)
        439552.35   3761998.92       23.41593  (16021419)                439152.35
3762048.92       14.64902  (13100622)
        439202.35   3762048.92       15.70780  (16101918)                439252.35
3762048.92       16.66363  (16101918)
        439302.35   3762048.92       17.46993  (16101918)                439352.35
3762048.92       18.59579  (13101522)
        439402.35   3762048.92       19.72991  (13101522)                439452.35
3762048.92       21.11058  (14043002)
        439502.35   3762048.92       22.73416  (14042901)                439552.35
3762048.92       24.41882  (14042901)
        439616.61   3761420.65       13.01805  (13101419)                439666.61
3761420.65       13.20730  (13101419)
        439716.61   3761420.65       13.36270  (14050102)                439766.61
3761420.65       13.59919  (14050102)
        439816.61   3761420.65       13.47880  (16092606)                439866.61
3761420.65       13.46939  (16092606)
        439616.61   3761470.65       13.65587  (14100421)                439666.61
3761470.65       13.97541  (13101419)
        439716.61   3761470.65       13.91979  (14050102)                439766.61
3761470.65       14.37436  (14050102)
        439816.61   3761470.65       14.16314  (16092606)                439866.61
3761470.65       14.30569  (16092606)
        439616.61   3761520.65       14.33585  (14100421)                439666.61
3761520.65       14.74277  (13101419)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***         04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        22:47:09

                                    PAGE  86
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONRUN  ***
                                    INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
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, L0013118   , L0013119   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	14.77563	(13101419)	439766.61	3761520.65	15.23182	(14050102)
439816.61	3761520.65	15.12423	(14050102)	439866.61	3761520.65	15.23967	(16092606)
439616.61	3761570.65	15.19945	(16092523)	439666.61	3761570.65	15.51970	(16020708)
439716.61	3761570.65	15.86672	(13101419)	439766.61	3761570.65	16.12520	(14050102)
439816.61	3761570.65	16.28202	(14050102)	439866.61	3761570.65	16.25673	(16092606)
440451.14	3762893.83	45.70530	(15070606)	440501.14	3762893.83	42.03294	(13062920)
440551.14	3762893.83	38.48310	(16061306)	440601.14	3762893.83	35.28511	(13051321)
440651.14	3762893.83	32.55118	(15092020)	440701.14	3762893.83	30.21911	(15062719)
440751.14	3762893.83	27.57279	(15062719)	440801.14	3762893.83	25.58514	(15091021)
440851.14	3762893.83	23.60019	(16111417)	440451.14	3762943.83	43.46748	(15070606)
440501.14	3762943.83	40.01875	(13062920)	440551.14	3762943.83	37.09995	(13062920)
440601.14	3762943.83	34.43595	(16061306)	440651.14	3762943.83	31.60034	(13070820)
440701.14	3762943.83	29.47967	(15092020)	440751.14	3762943.83	27.05551	(15062719)
440801.14	3762943.83	25.62054	(15062719)	440851.14	3762943.83	23.82051	(15062719)
441116.67	3763135.31	18.00287	(14101507)	441166.67	3763135.31	16.82801	(13060406)
441116.67	3763185.31	18.24293	(12092321)	441166.67	3763185.31	17.04725	(12092321)
441116.67	3763235.31	18.44743	(14060821)	441166.67	3763235.31	17.01759	(15011617)
441116.67	3763285.31	19.20153	(14051521)	441166.67	3763285.31	17.82635	(14051521)
441116.67	3763335.31	19.18126	(13090101)	441166.67	3763335.31	18.17489	(15120817)
441116.67	3763385.31	19.36738	(15082522)	441166.67

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3763385.31       18.42589  (15082522)
        441116.67   3763435.31       19.10756  (15071801)                441166.67
3763435.31       18.48303  (15082522)
        440433.43   3762815.13       52.16254  (13062920)                440483.43
3762815.13       47.50609  (16061306)
        440533.43   3762815.13       42.86349  (15092020)                440583.43
3762815.13       38.76470  (15062719)
        440633.43   3762815.13       34.87071  (15091021)                440683.43
3762815.13       31.82484  (13090620)
        440733.43   3762815.13       29.05534  (13083023)                440783.43
3762815.13       26.66994  (15101304)
        440833.43   3762815.13       24.63155  (12093019)                440883.43
3762815.13       22.89307  (14100319)
        440933.43   3762815.13       21.32532  (14100319)                440983.43
3762815.13       19.84208  (14100319)
        440433.43   3762865.13       48.75706  (13062920)                440483.43
3762865.13       44.33754  (13062920)
        440533.43   3762865.13       40.24433  (13070820)                440583.43
3762865.13       37.04407  (15092020)
        440633.43   3762865.13       34.12134  (15062719)                440683.43
3762865.13       31.08435  (15062719)
        440733.43   3762865.13       28.62502  (15091021)                440783.43
3762865.13       26.29775  (16111417)
        440833.43   3762865.13       24.49786  (13090620)                440883.43
3762865.13       22.78132  (13083023)
        440933.43   3762865.13       21.13718  (15101304)                440983.43
3762865.13       19.78367  (15101304)
        441118.27   3762686.02       16.69493  (16073023)                441168.27
3762686.02       15.75333  (16073023)
        441118.27   3762736.02       16.92330  (15082521)                441168.27
3762736.02       15.98613  (15082521)
        441118.27   3762786.02       16.80397  (15102518)                441168.27
3762786.02       15.87777  (15102518)
        441118.27   3762836.02       16.74850  (13090223)                441168.27
3762836.02       15.88448  (12102517)
        440411.67   3762093.41       21.20080  (14100521)                440461.67
3762093.41       20.72545  (15012217)
        440511.67   3762093.41       20.57911  (15012217)                440561.67
3762093.41       19.89436  (12012517)
        440611.67   3762093.41       18.92065  (16021220)                440411.67
3762143.41       22.95582  (14100521)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:47:09

                                   PAGE  87
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONRUN  ***
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                                  INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440461.67   3762143.41       22.60156  (15012217)               440511.67
3762143.41       22.17737  (12012517)
        440561.67   3762143.41       20.99058  (15101302)               440611.67
3762143.41       20.36779  (15071919)
        440406.61   3762008.86       19.05262  (14011422)               440456.61
3762008.86       18.53985  (14100521)
        440506.61   3762008.86       18.28578  (15012217)               440556.61
3762008.86       17.93652  (15012217)
        440606.61   3762008.86       17.32866  (12012517)               440656.61
3762008.86       16.59032  (16021220)
        440706.61   3762008.86       16.18053  (15071919)               440756.61
3762008.86       15.70943  (13012317)
        440806.61   3762008.86       15.07149  (15091323)               440856.61
3762008.86       14.44254  (12012417)
        440906.61   3762008.86       14.21228  (12012417)               440956.61
3762008.86       13.64074  (12092121)
        441006.61   3762008.86       13.18594  (15070806)               441056.61
3762008.86       12.67564  (15080521)
        441106.61   3762008.86       12.17556  (15080521)               441156.61
3762008.86       11.72036  (16083020)
        440406.61   3762058.86       20.28682  (14011422)               440456.61
3762058.86       19.72516  (14110517)
        440506.61   3762058.86       19.58963  (15012217)               440556.61
3762058.86       19.10444  (12012517)
        440606.61   3762058.86       18.14468  (15101302)               440656.61
3762058.86       17.66528  (15071919)
        440706.61   3762058.86       17.08541  (13012317)               440756.61
3762058.86       16.61322  (13012317)
        440806.61   3762058.86       15.67390  (15102821)               440856.61
3762058.86       15.37202  (12012417)
        440906.61   3762058.86       14.76202  (12092121)               440956.61
3762058.86       14.23614  (15070806)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 ,
L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 ,
L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 ,
L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	13.32749	(12020717)	439943.36	3761716.33	20.53894	(16092606)
439170.17	3763092.51	14.21753	(15090919)	439220.17	3763092.51	14.97728	(15090919)
439270.17	3763092.51	15.58108	(15090919)	439320.17	3763092.51	16.16587	(15090919)
441006.61	3762058.86	13.68121	(15080521)	441056.61	3762058.86	13.06509	(15091324)
441106.61	3762058.86	12.60518	(16083020)	441156.61	3762058.86	12.20090	(16062022)
440191.38	3762138.44	28.08519	(12020717)	440241.38	3762138.44	25.58351	(12020717)
440291.38	3762138.44	24.24231	(12020717)	440341.38	3762138.44	23.38951	(12020717)
440191.38	3762188.44	30.12679	(15082821)	440241.38	3762188.44	27.11586	(12020717)
440291.38	3762188.44	26.22361	(12020717)	440341.38	3762188.44	25.61903	(12020717)
440191.38	3762238.44	32.59793	(15082821)	440241.38	3762238.44	29.26469	(15082821)
440291.38	3762238.44	28.62085	(12020717)	440341.38	3762238.44	28.04574	(12020717)

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        439370.17   3763092.51       17.06536  (16122818)              439420.17
3763092.51       17.98632  (15031221)
        439470.17   3763092.51       19.29479  (15031221)              439520.17
3763092.51       20.62481  (15031221)
        439570.17   3763092.51       21.71079  (15031221)              439620.17
3763092.51       23.06856  (15120219)
        439670.17   3763092.51       24.81489  (16102418)              439720.17
3763092.51       26.40776  (15060905)
        439770.17   3763092.51       28.39579  (15060905)              439820.17
3763092.51       29.96610  (16102019)
        439870.17   3763092.51       31.44603  (16110921)              439170.17
3763142.51       13.86565  (15090919)
        439220.17   3763142.51       14.42669  (16122818)              439270.17
3763142.51       15.10539  (16122818)
        439320.17   3763142.51       15.86777  (15031221)              439370.17
3763142.51       16.85827  (15031221)
        439420.17   3763142.51       17.83050  (15031221)              439470.17
3763142.51       18.73203  (15031221)
        439520.17   3763142.51       19.59554  (15120219)              439570.17
3763142.51       20.80689  (13101421)
        439620.17   3763142.51       22.18613  (16102418)              439670.17
3763142.51       23.61550  (15060905)
        439720.17   3763142.51       25.22166  (15060905)              439770.17
3763142.51       26.48402  (16102019)
        439820.17   3763142.51       27.81498  (16102019)              439870.17
3763142.51       29.95369  (15101219)
        439170.17   3763192.51       13.58672  (16122818)              439220.17
3763192.51       14.21021  (15031221)
        439270.17   3763192.51       14.96709  (15031221)              439320.17
3763192.51       15.80262  (15031221)
        439370.17   3763192.51       16.46650  (15031221)              439420.17
3763192.51       17.03711  (15031221)
        439470.17   3763192.51       18.00839  (15120219)              439520.17
3763192.51       19.08516  (16102418)
        439570.17   3763192.51       20.10568  (16102418)              439620.17
3763192.51       21.28467  (15060905)
        439670.17   3763192.51       22.69458  (15060905)              439720.17
3763192.51       24.18407  (16102019)
        439770.17   3763192.51       26.48418  (16102019)              439820.17
3763192.51       28.10800  (13030120)
        439870.17   3763192.51       30.43666  (15101219)              439170.17
3763242.51       13.62857  (15031221)
        439220.17   3763242.51       14.23252  (15031221)              439270.17
3763242.51       14.73455  (15031221)
        439320.17   3763242.51       15.24444  (15031221)              439370.17
3763242.51       15.91725  (15120219)
        439420.17   3763242.51       16.69190  (13101421)              439470.17
3763242.51       17.71997  (16102418)
        439520.17   3763242.51       18.42548  (16102418)              439570.17
3763242.51       19.59631  (15060905)
        439620.17   3763242.51       20.61379  (15060905)              439670.17
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3763242.51 21.50082 (15072002)
  439720.17 3763242.51 24.02634 (16102019) 439770.17
3763242.51 25.73647 (16111720)
  439820.17 3763242.51 27.24717 (15101219) 439870.17
3763242.51 29.88587 (15101219)
  439170.17 3763292.51 13.46721 (15031221) 439220.17
3763292.51 14.57453 (12020718)
  439270.17 3763292.51 14.94889 (15120219) 439320.17
3763292.51 15.32069 (15120219)
  439370.17 3763292.51 15.72680 (16102418) 439420.17
3763292.51 16.46254 (16102418)
  439470.17 3763292.51 17.60531 (15060905) 439520.17
3763292.51 19.07725 (15060905)
  439570.17 3763292.51 18.93787 (15060905) 439620.17
3763292.51 19.99484 (14091605)
  439670.17 3763292.51 21.50291 (16102019) 439720.17
3763292.51 23.32953 (13050222)
  439770.17 3763292.51 25.76052 (16111720) 439820.17
3763292.51 27.43188 (15100921)
  439870.17 3763292.51 28.32826 (15101219) 439170.17
3763342.51 13.96344 (12020718)
  439220.17 3763342.51 14.87648 (14030901) 439270.17
3763342.51 14.89719 (13101421)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 ,
L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 ,
L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 ,
L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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        439203.20   3762961.16       14.68618  (15063019)                439253.20
3762961.16       15.48005  (15063019)
        439303.20   3762961.16       16.32882  (15063019)                439353.20
3762961.16       17.22538  (15063019)
        439403.20   3762961.16       18.19085  (15112017)                439453.20
3762961.16       19.57113  (15112017)
        439503.20   3762961.16       21.02601  (15112017)                439553.20
3762961.16       22.83364  (15090919)
        439203.20   3763011.16       14.60042  (15112017)                439253.20
3763011.16       15.62169  (15112017)
        439303.20   3763011.16       16.52711  (15112017)                439353.20
3763011.16       17.56836  (15090919)
        439403.20   3763011.16       17.89524  (15090919)                439453.20
3763011.16       19.34445  (15090919)
        439503.20   3763011.16       20.40958  (15090919)                439553.20
3763011.16       22.20740  (16122818)
        439203.20   3763061.16       14.64505  (15090919)                439253.20
3763061.16       15.66497  (15090919)
        439303.20   3763061.16       16.43659  (15090919)                439353.20
3763061.16       17.19950  (15090919)
        439403.20   3763061.16       17.90520  (15090919)                439453.20
3763061.16       19.05107  (16122818)
        439503.20   3763061.16       20.25474  (16122818)                439553.20
3763061.16       22.00481  (15031221)
        439196.01   3762392.48       14.98401  (13012017)                439246.01
3762392.48       15.77171  (15030621)
        439296.01   3762392.48       16.67019  (15030621)                439346.01
3762392.48       17.62258  (15030621)
        439396.01   3762392.48       18.63781  (15030621)                439446.01
3762392.48       19.80979  (14051419)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:47:09

                                   PAGE  90
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                   INCLUDING SOURCE(S):     L0011959    , L0011960
, L0011961    , L0011962    , L0011963    ,
                  L0011964    , L0011953    , L0011954    , L0011955    , L0011965
, L0011966    , L0011967    , L0011968    ,
                  L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                  L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	21.15112	(14051419)	439546.01	3762392.48	22.71394	(14051419)
439196.01	3762442.48	15.25226	(15100918)	439246.01	3762442.48	15.99443	(15100918)
439296.01	3762442.48	16.81701	(15100918)	439346.01	3762442.48	17.67784	(15100918)
439396.01	3762442.48	18.62194	(15100918)	439446.01	3762442.48	19.68002	(15100918)
439496.01	3762442.48	20.87576	(15100918)	439546.01	3762442.48	22.28126	(15100918)
439196.01	3762492.48	15.17623	(15100918)	439246.01	3762492.48	15.95753	(15100918)
439296.01	3762492.48	16.81351	(15100918)	439346.01	3762492.48	17.71694	(15100918)
439396.01	3762492.48	18.64438	(15100918)	439446.01	3762492.48	19.62048	(15100918)
439496.01	3762492.48	20.83245	(14051419)	439546.01	3762492.48	22.48757	(14051419)
439196.01	3762542.48	14.91699	(13101422)	439246.01	3762542.48	15.72310	(15100918)
439296.01	3762542.48	16.67666	(15100918)	439346.01	3762542.48	17.67816	(15100918)
439396.01	3762542.48	18.76555	(15100918)	439446.01	3762542.48	19.89994	(15100918)
439496.01	3762542.48	21.14766	(15100918)	439546.01	3762542.48	22.70238	(15030621)
439196.01	3762592.48	14.96518	(14020117)	439246.01	3762592.48	15.73846	(14020117)
439296.01	3762592.48	16.55406	(14020117)	439346.01	3762592.48	17.43629	(13101422)
439396.01	3762592.48	18.70760	(15100918)	439446.01	3762592.48	20.16427	(15100918)
439496.01	3762592.48	21.84271	(15100918)	439546.01	3762592.48	23.61625	(15100918)
439196.01	3762642.48	15.05886	(16102417)	439246.01	3762642.48	15.85021	(16102417)
439296.01	3762642.48	16.66313	(16102417)	439346.01	3762642.48	17.61281	(14020117)
439396.01	3762642.48	18.80444	(14011717)	439446.01	3762642.48	20.16240	(14011717)
439496.01	3762642.48	21.75848	(14011717)	439546.01	3762642.48	23.67090	(15100918)
439196.01	3762692.48	14.91009	(16102417)	439246.01			

3762692.48 15.76333 (16102417)
439296.01 3762692.48 16.72944 (16102417) 439346.01
3762692.48 17.79367 (16102417)
439396.01 3762692.48 18.95857 (16102417) 439446.01
3762692.48 20.38172 (16102417)
439496.01 3762692.48 22.11093 (16102417) 439546.01
3762692.48 24.06988 (16102417)
439196.01 3762742.48 14.59950 (16122920) 439246.01
3762742.48 15.41615 (16122920)
439296.01 3762742.48 16.36592 (16122920) 439346.01
3762742.48 17.42407 (16122920)
439396.01 3762742.48 18.64369 (16122920) 439446.01
3762742.48 20.07027 (16122920)
439496.01 3762742.48 21.81458 (16122920) 439546.01
3762742.48 23.81818 (16122920)
439196.01 3762792.48 14.59402 (15110717) 439246.01
3762792.48 15.37929 (15110717)
439296.01 3762792.48 16.31664 (13122517) 439346.01
3762792.48 17.38408 (13122517)
439396.01 3762792.48 18.61260 (13122517) 439446.01
3762792.48 20.03031 (13122517)
439496.01 3762792.48 21.75259 (13122517) 439546.01
3762792.48 23.75648 (13122517)
439196.01 3762842.48 14.55481 (15031224) 439246.01
3762842.48 15.36931 (15031224)
439296.01 3762842.48 16.30567 (15031224) 439346.01
3762842.48 17.37476 (15031224)
439396.01 3762842.48 18.61253 (15031224) 439446.01
3762842.48 20.02939 (15031224)
439496.01 3762842.48 21.71034 (15031224) 439546.01
3762842.48 23.69526 (15063019)
439573.31 3762470.54 22.98754 (14051419) 439623.31
3762470.54 24.69310 (15031321)
439673.31 3762470.54 26.94764 (14051322) 439723.31
3762470.54 30.51859 (14011717)
439773.31 3762470.54 35.75109 (14011717) 439823.31
3762470.54 44.10172 (14011717)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 ,
L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 ,

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                L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439873.31   3762470.54       59.70371  (14011717)               439573.31
3762520.54       23.68097  (14051419)
        439623.31   3762520.54       25.74696  (14051419)               439673.31
3762520.54       28.18072  (16092601)
        439723.31   3762520.54       31.53829  (15031321)               439773.31
3762520.54       35.65721  (16112908)
        439823.31   3762520.54       41.29372  (15063019)               439873.31
3762520.54       55.09491  (15063019)
        439573.31   3762570.54       23.96151  (15100918)               439623.31
3762570.54       26.41183  (15030621)
        439673.31   3762570.54       29.69988  (14051419)               439723.31
3762570.54       33.39538  (14051419)
        439773.31   3762570.54       37.88171  (16092601)               439823.31
3762570.54       44.24089  (15031321)
        439873.31   3762570.54       54.17418  (16112908)               439573.31
3762620.54       25.11007  (15100918)
        439623.31   3762620.54       27.70807  (15100918)               439673.31
3762620.54       30.68884  (15100918)
        439723.31   3762620.54       34.21259  (15100918)               439773.31
3762620.54       39.08397  (15030621)
        439823.31   3762620.54       46.10699  (14051419)               439873.31
3762620.54       55.80799  (14051419)
        439573.31   3762670.54       25.25334  (14011717)               439623.31
3762670.54       27.97903  (14011717)
        439673.31   3762670.54       31.12835  (14011717)               439723.31
3762670.54       35.56968  (15100918)
        439773.31   3762670.54       41.24572  (15100918)               439823.31
3762670.54       48.24635  (15100918)
        439873.31   3762670.54       57.22697  (15100918)               439152.35
3761448.92       10.17363  (12010822)
        439202.35   3761448.92       10.33866  (14110501)               439252.35
3761448.92       10.71372  (15031301)
        439302.35   3761448.92       11.03879  (15031301)               439352.35
3761448.92       11.21619  (14112323)
        439402.35   3761448.92       11.63078  (12110417)               439452.35
3761448.92       12.37820  (12110417)
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        439502.35   3761448.92       12.76296  (13101517)                439552.35
3761448.92       12.85727  (13101517)
        439152.35   3761498.92       10.43574  (16021419)                439202.35
3761498.92       10.81883  (12010822)
        439252.35   3761498.92       11.11363  (14110501)                439302.35
3761498.92       11.50122  (15031301)
        439352.35   3761498.92       11.75878  (15031301)                439402.35
3761498.92       11.94376  (14112323)
        439452.35   3761498.92       12.63627  (12110417)                439502.35
3761498.92       13.33598  (12110417)
        439552.35   3761498.92       13.63285  (13101517)                439152.35
3761548.92       10.93244  (16021419)
        439202.35   3761548.92       11.10157  (12010822)                439252.35
3761548.92       11.53676  (12010822)
        439302.35   3761548.92       11.78508  (14110501)                439352.35
3761548.92       12.22832  (15031301)
        439402.35   3761548.92       12.51085  (13112508)                439452.35
3761548.92       12.80428  (14022807)
        439502.35   3761548.92       13.73835  (12110417)                439552.35
3761548.92       14.28611  (12110417)
        439152.35   3761598.92       11.21230  (16021419)                439202.35
3761598.92       11.59315  (16021419)
        439252.35   3761598.92       11.83940  (12010822)                439302.35
3761598.92       12.25327  (12010822)
        439352.35   3761598.92       12.54767  (14110501)                439402.35
3761598.92       13.12544  (15031301)
        439452.35   3761598.92       13.40752  (13112508)                439502.35
3761598.92       14.00319  (12110417)
        439552.35   3761598.92       14.96706  (12110417)                439152.35
3761648.92       11.52002  (14042901)
        439202.35   3761648.92       11.90176  (16021419)                439252.35
3761648.92       12.38849  (16021419)
        439302.35   3761648.92       12.69169  (12010822)                439352.35
3761648.92       13.09520  (12010822)
        439402.35   3761648.92       13.60492  (15031301)                439452.35
3761648.92       14.14711  (15031301)
        439502.35   3761648.92       14.46889  (14112323)                439552.35
3761648.92       15.50663  (12110417)
        439152.35   3761698.92       11.95264  (14042901)                439202.35
3761698.92       12.25968  (14042901)
        439252.35   3761698.92       12.65544  (16021419)                439302.35
3761698.92       13.21039  (16021419)
        439352.35   3761698.92       13.62039  (12010822)                439402.35
3761698.92       14.14077  (12010822)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:47:09

                                  PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 , L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 , L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 , L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	14.71004	(15031301)	439502.35	3761698.92	15.28377	(15031301)
439552.35	3761698.92	15.77518	(12110417)	439152.35	3761748.92	12.05216	(14042901)
439202.35	3761748.92	12.70144	(14042901)	439252.35	3761748.92	13.05322	(14042901)
439302.35	3761748.92	13.55789	(16021419)	439352.35	3761748.92	14.17025	(16021419)
439402.35	3761748.92	14.65758	(12010822)	439452.35	3761748.92	15.16107	(14110501)
439502.35	3761748.92	15.91408	(15031301)	439552.35	3761748.92	16.48852	(13112508)
439152.35	3761798.92	12.47277	(14043002)	439202.35	3761798.92	12.81187	(14043002)
439252.35	3761798.92	13.54583	(14042901)	439302.35	3761798.92	14.11866	(14042901)
439352.35	3761798.92	14.57279	(16021419)	439402.35	3761798.92	15.25162	(16021419)
439452.35	3761798.92	15.88475	(12010822)	439502.35	3761798.92	16.41550	(14110501)
439552.35	3761798.92	17.42902	(15031301)	439152.35	3761848.92	12.75990	(13101522)
439202.35	3761848.92	13.32017	(14043002)	439252.35	3761848.92	13.71075	(14043002)
439302.35	3761848.92	14.49903	(14042901)	439352.35	3761848.92	15.08152	(14042901)
439402.35	3761848.92	15.77562	(16021419)	439452.35	3761848.92	16.57369	(16021419)
439502.35	3761848.92	17.11456	(12010822)	439552.35			

3761848.92 18.01309 (15031301)
439152.35 3761898.92 12.97151 (13101522) 439202.35
3761898.92 13.63829 (13101522)
439252.35 3761898.92 14.17224 (14043002) 439302.35
3761898.92 14.85897 (14043002)
439352.35 3761898.92 15.62045 (14042901) 439402.35
3761898.92 16.41576 (14042901)
439452.35 3761898.92 17.22555 (16021419) 439502.35
3761898.92 18.16143 (16021419)
439552.35 3761898.92 19.01384 (12010822) 439152.35
3761948.92 13.39503 (16101918)
439202.35 3761948.92 13.79854 (16101918) 439252.35
3761948.92 14.49148 (13101522)
439302.35 3761948.92 15.26707 (13101522) 439352.35
3761948.92 16.07804 (14043002)
439402.35 3761948.92 16.84602 (14042901) 439452.35
3761948.92 17.98599 (14042901)
439502.35 3761948.92 18.89189 (16021419) 439552.35
3761948.92 20.04945 (16021419)
439152.35 3761998.92 13.52855 (16101918) 439202.35
3761998.92 14.24926 (16101918)
439252.35 3761998.92 14.80691 (16101918) 439302.35
3761998.92 15.56860 (13101522)
439352.35 3761998.92 16.54982 (13101522) 439402.35
3761998.92 17.36780 (14043002)
439452.35 3761998.92 18.29068 (14042901) 439502.35
3761998.92 19.59624 (14042901)
439552.35 3761998.92 20.68457 (16021419) 439152.35
3762048.92 13.75517 (15071822)
439202.35 3762048.92 14.29408 (13100622) 439252.35
3762048.92 15.23282 (16101918)
439302.35 3762048.92 16.12133 (16101918) 439352.35
3762048.92 16.82030 (16101918)
439402.35 3762048.92 17.84668 (13101522) 439452.35
3762048.92 18.93688 (14043002)
439502.35 3762048.92 19.98260 (14043002) 439552.35
3762048.92 21.57681 (14042901)
439616.61 3761420.65 12.80815 (14100421) 439666.61
3761420.65 13.19738 (13101419)
439716.61 3761420.65 13.19432 (14050102) 439766.61
3761420.65 13.75068 (14050102)
439816.61 3761420.65 13.62339 (13050220) 439866.61
3761420.65 13.90808 (16092606)
439616.61 3761470.65 13.39445 (14100421) 439666.61
3761470.65 13.83258 (13101419)
439716.61 3761470.65 13.97174 (13101419) 439766.61
3761470.65 14.43594 (14050102)
439816.61 3761470.65 14.52296 (14050102) 439866.61
3761470.65 14.73676 (16092606)
439616.61 3761520.65 14.06262 (16092523) 439666.61
3761520.65 14.43755 (14100421)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 , L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 , L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 , L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	14.87222	(13101419)	439766.61	3761520.65	15.15919	(14050102)
439816.61	3761520.65	15.52639	(14050102)	439866.61	3761520.65	15.63993	(16092606)
439616.61	3761570.65	14.92224	(13101517)	439666.61	3761570.65	15.21481	(14100421)
439716.61	3761570.65	15.77699	(13101419)	439766.61	3761570.65	15.86387	(13101419)
439816.61	3761570.65	16.59169	(14050102)	439866.61	3761570.65	16.58993	(16092606)
440451.14	3762893.83	60.86209	(13041207)	440501.14	3762893.83	49.74414	(13041207)
440551.14	3762893.83	39.31209	(15062719)	440601.14	3762893.83	34.36154	(15062719)
440651.14	3762893.83	30.72453	(15062719)	440701.14	3762893.83	28.14623	(15062719)
440751.14	3762893.83	25.95708	(15062719)	440801.14	3762893.83	24.04888	(15062719)
440851.14	3762893.83	22.21748	(15091021)	440451.14	3762943.83	51.25774	(15070606)
440501.14	3762943.83	44.21636	(13062920)	440551.14	3762943.83	38.52400	(16061306)

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        440601.14   3762943.83       34.28967  (16061306)               440651.14
3762943.83       30.89783  (15091221)
        440701.14   3762943.83       28.21717  (13051321)               440751.14
3762943.83       26.15644  (15092020)
        440801.14   3762943.83       24.44061  (15092020)               440851.14
3762943.83       22.92099  (15062719)
        441116.67   3763135.31       17.29110  (12092321)               441166.67
3763135.31       16.24081  (12092321)
        441116.67   3763185.31       17.43210  (14060821)               441166.67
3763185.31       16.31367  (15011617)
        441116.67   3763235.31       17.43087  (14051521)               441166.67
3763235.31       16.49493  (14051521)
        441116.67   3763285.31       18.75037  (15120817)               441166.67
3763285.31       17.05484  (14051521)
        441116.67   3763335.31       19.01487  (15082522)               441166.67
3763335.31       17.84131  (13090101)
        441116.67   3763385.31       18.77764  (15082522)               441166.67
3763385.31       18.19833  (15082522)
        441116.67   3763435.31       18.69425  (16090403)               441166.67
3763435.31       17.93453  (15071801)
        440433.43   3762815.13       70.16117  (13090620)               440483.43
3762815.13       54.45753  (15101304)
        440533.43   3762815.13       44.48449  (16051606)               440583.43
3762815.13       37.46299  (16051606)
        440633.43   3762815.13       32.52089  (16051606)               440683.43
3762815.13       28.87079  (14100319)
        440733.43   3762815.13       26.00903  (14100319)               440783.43
3762815.13       23.95381  (14100319)
        440833.43   3762815.13       22.41117  (13090620)               440883.43
3762815.13       21.01155  (15101304)
        440933.43   3762815.13       19.41913  (12093019)               440983.43
3762815.13       18.27278  (14100319)
        440433.43   3762865.13       78.51497  (13041207)               440483.43
3762865.13       55.44514  (13041207)
        440533.43   3762865.13       42.53847  (15091021)               440583.43
3762865.13       36.29345  (15091021)
        440633.43   3762865.13       31.71455  (13090620)               440683.43
3762865.13       28.43214  (15091021)
        440733.43   3762865.13       26.10201  (15062719)               440783.43
3762865.13       24.27853  (15091021)
        440833.43   3762865.13       22.50343  (16092820)               440883.43
3762865.13       20.84722  (13083023)
        440933.43   3762865.13       19.53265  (13083023)               440983.43
3762865.13       18.33066  (13083023)
        441118.27   3762686.02       15.64681  (15082521)               441168.27
3762686.02       14.85713  (15082521)
        441118.27   3762736.02       15.57687  (15102518)               441168.27
3762736.02       14.82604  (15102518)
        441118.27   3762786.02       15.68380  (12102517)               441168.27
3762786.02       14.89310  (12102517)
        441118.27   3762836.02       15.68865  (14100319)               441168.27
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3762836.02   14.88867 (14100319)
        440411.67   3762093.41   23.93050 (15062801)   440461.67
3762093.41   23.50885 (15012217)
        440511.67   3762093.41   22.61122 (12012517)   440561.67
3762093.41   21.33422 (16021220)
        440611.67   3762093.41   20.40171 (13012317)   440411.67
3762143.41   25.91837 (15012217)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                  INCLUDING SOURCE(S):   L0011959   , L0011960
, L0011961   , L0011962   , L0011963   ,
                  L0011964   , L0011953   , L0011954   , L0011955   , L0011965
, L0011966   , L0011967   , L0011968   ,
                  L0011969   , L0011970   , L0011971   , L0011972   , L0011973
, L0011974   , L0011975   , L0011976   ,
                  L0011977   , L0011978   , L0011979   , L0011980   , L0011981
, L0011982   , L0011983   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440461.67   3762143.41   25.43314 (15012217)   440511.67
3762143.41   24.08219 (12012517)
        440561.67   3762143.41   22.88443 (15071919)   440611.67
3762143.41   21.89976 (13012317)
        440406.61   3762008.86   21.55392 (14100521)   440456.61
3762008.86   21.03077 (15012217)
        440506.61   3762008.86   20.42292 (15012217)   440556.61
3762008.86   19.52787 (12012517)
        440606.61   3762008.86   18.59665 (15071919)   440656.61
3762008.86   17.88853 (15071919)
        440706.61   3762008.86   17.31209 (13012317)   440756.61
3762008.86   16.44348 (15091323)
        440806.61   3762008.86   15.82372 (12012417)   440856.61
3762008.86   15.15265 (12092121)
        440906.61   3762008.86   14.64758 (12092121)   440956.61

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3762008.86       14.03518  (15080521)
        441006.61   3762008.86       13.41605  (15080521)                441056.61
3762008.86       12.86634  (16083020)
        441106.61   3762008.86       12.41593  (16062022)                441156.61
3762008.86       11.92203  (15091122)
        440406.61   3762058.86       22.91091  (14100521)                440456.61
3762058.86       22.43359  (15012217)
        440506.61   3762058.86       21.71094  (12012517)                440556.61
3762058.86       20.48017  (15101302)
        440606.61   3762058.86       19.74172  (15071919)                440656.61
3762058.86       18.99005  (13012317)
        440706.61   3762058.86       18.09884  (15091323)                440756.61
3762058.86       17.36160  (12012417)
        440806.61   3762058.86       16.51450  (12012417)                440856.61
3762058.86       15.82937  (12092121)
        440906.61   3762058.86       15.16320  (15080521)                440956.61
3762058.86       14.41641  (15080521)
        441006.61   3762058.86       13.85366  (16083020)                441056.61
3762058.86       13.31215  (16062022)
        441106.61   3762058.86       12.75773  (15091122)                441156.61
3762058.86       12.22334  (15091122)
        440191.38   3762138.44       34.92877  (12020717)                440241.38
3762138.44       30.71089  (15012217)
        440291.38   3762138.44       27.97446  (15012217)                440341.38
3762138.44       26.56137  (12020717)
        440191.38   3762188.44       39.00910  (12020717)                440241.38
3762188.44       33.65615  (15012217)
        440291.38   3762188.44       29.88756  (12012517)                440341.38
3762188.44       29.30629  (12020717)
        440191.38   3762238.44       44.93573  (15012217)                440241.38
3762238.44       37.07436  (12012517)
        440291.38   3762238.44       33.06603  (16061922)                440341.38
3762238.44       33.03052  (12020717)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        22:47:09

                                    PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1OFFSIT ***
                                    INCLUDING SOURCE(S):     L0012462    , L0012463
, L0012464    , L0012465    , L0012466    ,
                  L0012467    , L0012468    , L0012469    , L0012470    , L0012471
, L0012472    , L0012473    , L0012474    ,
                  L0012475    , L0012476    , L0012477    , L0012478    , L0012479
, L0012480    , L0012481    , L0012482    ,
                  L0012483    , L0012484    , L0012485    , L0012486    , L0012487
, L0012488    , L0012489    ,  . . .      ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	7.85742	(14110517)	439943.36	3761716.33	42.61077	(13041207)
439170.17	3763092.51	7.04486	(15082523)	439220.17	3763092.51	7.68219	(15082523)
439270.17	3763092.51	8.16120	(15082523)	439320.17	3763092.51	8.72777	(15082523)
439370.17	3763092.51	9.45930	(16062805)	439420.17	3763092.51	10.07808	(12110421)
439470.17	3763092.51	10.90758	(13082824)	439520.17	3763092.51	11.89709	(13082824)
439570.17	3763092.51	13.14817	(12080824)	439620.17	3763092.51	14.91925	(13090802)
439670.17	3763092.51	17.57680	(12082102)	439720.17	3763092.51	20.58548	(12082102)
439770.17	3763092.51	24.86016	(12090823)	439820.17	3763092.51	32.36770	(15070124)
439870.17	3763092.51	56.37309	(15090822)	439170.17	3763142.51	7.17792	(15082523)
439220.17	3763142.51	7.76121	(15082523)	439270.17	3763142.51	8.13540	(15082523)
439320.17	3763142.51	8.77883	(16062805)	439370.17	3763142.51	9.45053	(16062805)
439420.17	3763142.51	10.00105	(14092706)	439470.17	3763142.51	11.11872	(13082824)
439520.17	3763142.51	12.23343	(13082824)	439570.17	3763142.51	13.28015	(12080824)
439620.17	3763142.51	14.86298	(13082703)	439670.17	3763142.51	17.36526	(12082102)
439720.17	3763142.51	20.12320	(15092423)	439770.17	3763142.51	24.45713	(15090405)
439820.17	3763142.51	32.07290	(15070124)	439870.17	3763142.51	55.92836	(15090822)
439170.17	3763192.51	7.28727	(15082523)	439220.17	3763192.51	7.77798	(15082523)
439270.17	3763192.51	8.10506	(15082523)	439320.17	3763192.51	8.82417	(16062805)
439370.17	3763192.51	9.39537	(13051124)	439420.17	3763192.51	9.96018	(14092706)
439470.17	3763192.51	11.12072	(13082824)	439520.17	3763192.51	12.05602	(12080824)

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        439570.17   3763192.51       13.28528  (12080824)                439620.17
3763192.51       14.72673  (15081301)
        439670.17   3763192.51       17.29485  (12082102)                439720.17
3763192.51       20.40411  (15092423)
        439770.17   3763192.51       24.93294  (15090405)                439820.17
3763192.51       32.18813  (13083106)
        439870.17   3763192.51       55.45183  (15090822)                439170.17
3763242.51        7.38420  (15082523)
        439220.17   3763242.51        7.81374  (15082523)                439270.17
3763242.51        8.13053  (16062805)
        439320.17   3763242.51        8.73237  (16062805)                439370.17
3763242.51        9.28124  (12110421)
        439420.17   3763242.51       10.03322  (13082824)                439470.17
3763242.51       11.08994  (13082824)
        439520.17   3763242.51       12.03167  (12080824)                439570.17
3763242.51       13.11539  (14100523)
        439620.17   3763242.51       14.57407  (15081301)                439670.17
3763242.51       16.89162  (12082102)
        439720.17   3763242.51       19.96876  (12090823)                439770.17
3763242.51       24.37609  (15090405)
        439820.17   3763242.51       32.09358  (13083106)                439870.17
3763242.51       54.61306  (15090822)
        439170.17   3763292.51        7.48491  (15082523)                439220.17
3763292.51        8.01659  (15082523)
        439270.17   3763292.51        8.39142  (13082522)                439320.17
3763292.51        8.89264  (16062805)
        439370.17   3763292.51        9.31156  (15081402)                439420.17
3763292.51       10.23054  (13082824)
        439470.17   3763292.51       11.23758  (13082824)                439520.17
3763292.51       12.30263  (12080824)
        439570.17   3763292.51       13.08784  (14100523)                439620.17
3763292.51       14.75608  (15081301)
        439670.17   3763292.51       16.61618  (15092423)                439720.17
3763292.51       19.61096  (13090905)
        439770.17   3763292.51       24.29446  (12080605)                439820.17
3763292.51       31.94423  (13083106)
        439870.17   3763292.51       53.29043  (15090822)                439170.17
3763342.51        7.55992  (15082523)
        439220.17   3763342.51        8.02769  (15082523)                439270.17
3763342.51        8.34143  (16062805)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:47:09

                                   PAGE  96
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1OFFSIT ***
                                   INCLUDING SOURCE(S):     L0012462    , L0012463
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, L0012464   , L0012465   , L0012466   ,
                L0012467   , L0012468   , L0012469   , L0012470   , L0012471
, L0012472   , L0012473   , L0012474   ,
                L0012475   , L0012476   , L0012477   , L0012478   , L0012479
, L0012480   , L0012481   , L0012482   ,
                L0012483   , L0012484   , L0012485   , L0012486   , L0012487
, L0012488   , L0012489   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439320.17   3763342.51   8.81322 (16062805)   439370.17
3763342.51   9.26973 (15081402)
        439420.17   3763342.51   10.17032 (13082824)   439470.17
3763342.51   11.08632 (13082824)
        439520.17   3763342.51   12.18711 (12080824)   439570.17
3763342.51   13.10829 (13082703)
        439620.17   3763342.51   14.45091 (15081301)   439670.17
3763342.51   16.41271 (15092423)
        439720.17   3763342.51   19.16523 (13090905)   439770.17
3763342.51   23.58586 (12080605)
        439820.17   3763342.51   31.44598 (13083106)   439870.17
3763342.51   52.98478 (15090822)
        439170.17   3763392.51   7.61242 (15082523)   439220.17
3763392.51   7.99590 (15082523)
        439270.17   3763392.51   8.33483 (16062805)   439320.17
3763392.51   8.89052 (13051124)
        439370.17   3763392.51   9.40466 (14092706)   439420.17
3763392.51   10.33680 (13082824)
        439470.17   3763392.51   11.20337 (13082824)   439520.17
3763392.51   12.04334 (12080824)
        439570.17   3763392.51   13.02933 (13082703)   439620.17
3763392.51   14.15258 (15082006)
        439670.17   3763392.51   16.08427 (15092423)   439720.17
3763392.51   18.60619 (13090905)
        439770.17   3763392.51   22.72968 (15090206)   439820.17
3763392.51   30.31875 (13083106)
        439870.17   3763392.51   51.36495 (16072222)   439170.17
3763442.51   7.65463 (15102306)
        439220.17   3763442.51   8.00309 (15102306)   439270.17
3763442.51   8.33015 (16062805)
        439320.17   3763442.51   8.81395 (12091522)   439370.17
3763442.51   9.42297 (13082824)
        439420.17   3763442.51   10.22036 (13082824)   439470.17

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3763442.51       10.98183  (12080824)
        439520.17   3763442.51       11.82862  (12080824)                439570.17
3763442.51       12.87436  (13082703)
        439620.17   3763442.51       14.04936  (15082006)                439670.17
3763442.51       15.76514  (13082523)
        439720.17   3763442.51       18.30180  (15073002)                439770.17
3763442.51       22.18791  (15090206)
        439820.17   3763442.51       29.00816  (13071004)                439870.17
3763442.51       48.54256  (14021808)
        439203.20   3762911.16        6.92239  (14072601)                439253.20
3762911.16        7.58850  (15082523)
        439303.20   3762911.16        8.20030  (15082523)                439353.20
3762911.16        8.38302  (16062805)
        439403.20   3762911.16        9.20647  (16062805)                439453.20
3762911.16       10.04886  (12110421)
        439503.20   3762911.16       11.05479  (13082824)                439553.20
3762911.16       12.45369  (13082824)
        439203.20   3762961.16        7.06196  (15082523)                439253.20
3762961.16        7.65290  (15082523)
        439303.20   3762961.16        8.31599  (15082523)                439353.20
3762961.16        8.73244  (16062805)
        439403.20   3762961.16        9.40936  (16062805)                439453.20
3762961.16       10.23008  (12110421)
        439503.20   3762961.16       11.16410  (13082824)                439553.20
3762961.16       12.38377  (13082824)
        439203.20   3763011.16        7.26141  (15082523)                439253.20
3763011.16        7.84929  (15082523)
        439303.20   3763011.16        8.45405  (15082523)                439353.20
3763011.16        9.03644  (16062805)
        439403.20   3763011.16        9.39990  (13051124)                439453.20
3763011.16       10.25029  (14092706)
        439503.20   3763011.16       11.23634  (13082824)                439553.20
3763011.16       12.52066  (12080824)
        439203.20   3763061.16        7.37504  (15082523)                439253.20
3763061.16        8.01550  (15082523)
        439303.20   3763061.16        8.58079  (15082523)                439353.20
3763061.16        9.22011  (16062805)
        439403.20   3763061.16        9.88777  (16062805)                439453.20
3763061.16       10.60086  (14092706)
        439503.20   3763061.16       11.58809  (13082824)                439553.20
3763061.16       12.73822  (12080824)
        439196.01   3762392.48        6.94369  (13121117)                439246.01
3762392.48        7.32502  (15063019)
        439296.01   3762392.48        7.78726  (15063019)                439346.01
3762392.48        8.28525  (15063019)
        439396.01   3762392.48        8.82669  (15063019)                439446.01
3762392.48        9.41322  (15063019)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       22:47:09
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***

INCLUDING SOURCE(S): L0012462 , L0012463 , L0012464 , L0012465 , L0012466 , L0012467 , L0012468 , L0012469 , L0012470 , L0012471 , L0012472 , L0012473 , L0012474 , L0012475 , L0012476 , L0012477 , L0012478 , L0012479 , L0012480 , L0012481 , L0012482 , L0012483 , L0012484 , L0012485 , L0012486 , L0012487 , L0012488 , L0012489 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	10.06281	(15063019)	439546.01	3762392.48	10.80277	(15063019)
439196.01	3762442.48	6.98078	(15063019)	439246.01	3762442.48	7.37009	(15063019)
439296.01	3762442.48	7.77743	(15063019)	439346.01	3762442.48	8.22351	(15063019)
439396.01	3762442.48	8.70557	(15063019)	439446.01	3762442.48	9.23524	(15063019)
439496.01	3762442.48	9.83146	(15063019)	439546.01	3762442.48	10.52401	(15063019)
439196.01	3762492.48	6.97172	(15063019)	439246.01	3762492.48	7.32748	(15063019)
439296.01	3762492.48	7.69267	(15063019)	439346.01	3762492.48	8.08720	(15063019)
439396.01	3762492.48	8.52602	(15063019)	439446.01	3762492.48	9.01534	(15063019)
439496.01	3762492.48	9.60224	(15090919)	439546.01	3762492.48	10.38553	(15090919)
439196.01	3762542.48	6.89208	(15063019)	439246.01	3762542.48	7.21393	(15063019)
439296.01	3762542.48	7.55037	(15063019)	439346.01	3762542.48	7.91631	(15063019)
439396.01	3762542.48	8.32549	(15090919)	439446.01	3762542.48	8.90809	(15090919)
439496.01	3762542.48	9.59017	(16062805)	439546.01	3762542.48	10.50347	(14092706)

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        439196.01   3762592.48        6.76657  (15063019)              439246.01
3762592.48        7.04687  (15063019)
        439296.01   3762592.48        7.36872  (15063019)              439346.01
3762592.48        7.80904  (15090919)
        439396.01   3762592.48        8.30568  (15090919)              439446.01
3762592.48        8.84640  (15090919)
        439496.01   3762592.48        9.77967  (16062805)              439546.01
3762592.48       10.80126  (13082824)
        439196.01   3762642.48        6.60753  (15063019)              439246.01
3762642.48        6.95884  (15090919)
        439296.01   3762642.48        7.34140  (15090919)              439346.01
3762642.48        7.79018  (15090919)
        439396.01   3762642.48        8.24813  (15090919)              439446.01
3762642.48        8.76508  (15090919)
        439496.01   3762642.48        9.92908  (13051124)              439546.01
3762642.48       11.14521  (13082824)
        439196.01   3762692.48        6.63498  (15090919)              439246.01
3762692.48        6.92663  (15090919)
        439296.01   3762692.48        7.29307  (15082523)              439346.01
3762692.48        7.83553  (15082523)
        439396.01   3762692.48        8.15684  (15090919)              439446.01
3762692.48        8.77820  (16062805)
        439496.01   3762692.48       10.16122  (13051124)              439546.01
3762692.48       11.46503  (13082824)
        439196.01   3762742.48        6.64810  (15090919)              439246.01
3762742.48        6.89564  (15090919)
        439296.01   3762742.48        7.45785  (15082523)              439346.01
3762742.48        7.97143  (15082523)
        439396.01   3762742.48        8.47578  (12101903)              439446.01
3762742.48        9.29620  (16062805)
        439496.01   3762742.48       10.56066  (13051124)              439546.01
3762742.48       11.81641  (13082824)
        439196.01   3762792.48        6.85887  (15072001)              439246.01
3762792.48        6.86113  (15082523)
        439296.01   3762792.48        7.58745  (15082523)              439346.01
3762792.48        8.20183  (15082523)
        439396.01   3762792.48        8.77626  (16062805)              439446.01
3762792.48        9.53741  (16062805)
        439496.01   3762792.48       10.70546  (12110421)              439546.01
3762792.48       12.05787  (13082824)
        439196.01   3762842.48        6.85180  (15072001)              439246.01
3762842.48        7.04096  (15082523)
        439296.01   3762842.48        7.59510  (15082523)              439346.01
3762842.48        8.09567  (15082523)
        439396.01   3762842.48        8.87658  (16062805)              439446.01
3762842.48        9.63577  (16062805)
        439496.01   3762842.48       10.84848  (14092706)              439546.01
3762842.48       12.31770  (13082824)
        439573.31   3762470.54       10.93347  (15090919)              439623.31
3762470.54       12.07277  (13082824)
        439673.31   3762470.54       13.81357  (12080824)              439723.31
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***
INCLUDING SOURCE(S): L0012462 , L0012463 , L0012464 , L0012465 , L0012466 ,
L0012467 , L0012468 , L0012469 , L0012470 , L0012471 , L0012472 , L0012473 , L0012474 ,
L0012475 , L0012476 , L0012477 , L0012478 , L0012479 , L0012480 , L0012481 , L0012482 ,
L0012483 , L0012484 , L0012485 , L0012486 , L0012487 , L0012488 , L0012489 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	50.18888	(13091807)	439573.31	3762520.54	10.87048	(13082824)
439623.31	3762520.54	12.36062	(13082824)	439673.31	3762520.54	14.45351	(12080824)
439723.31	3762520.54	17.27967	(15081301)	439773.31	3762520.54	21.16415	(15092423)
439823.31	3762520.54	28.22860	(13091807)	439873.31	3762520.54	55.73141	(16020317)
439573.31	3762570.54	11.20403	(13082824)	439623.31	3762570.54	12.74411	(12080824)
439673.31	3762570.54	15.26797	(12080824)	439723.31	3762570.54	17.87317	(15081301)
439773.31	3762570.54	21.52496	(15092423)	439823.31	3762570.54	28.95121	(13091807)
439873.31	3762570.54	54.50732	(16020317)	439573.31	3762620.54	11.61333	(13082824)
439623.31	3762620.54	13.39803	(13082824)	439673.31	3762620.54	15.32369	(12080824)
439723.31	3762620.54	18.27449	(12082102)	439773.31			

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3762620.54       21.87560  (12090823)
        439823.31   3762620.54       29.63350  (13091807)                439873.31
3762620.54       52.83778  (16020317)
        439573.31   3762670.54       12.06061  (13082824)                439623.31
3762670.54       14.17600  (13082824)
        439673.31   3762670.54       16.10490  (14100523)                439723.31
3762670.54       18.85492  (12082102)
        439773.31   3762670.54       23.06455  (12090823)                439823.31
3762670.54       30.54437  (13091807)
        439873.31   3762670.54       50.79884  (16020317)                439152.35
3761448.92        6.16869  (16101918)
        439202.35   3761448.92        6.39834  (16101918)                439252.35
3761448.92        6.66555  (16101918)
        439302.35   3761448.92        6.96628  (13101522)                439352.35
3761448.92        7.32295  (14042901)
        439402.35   3761448.92        7.79677  (14042901)                439452.35
3761448.92        8.29596  (14042901)
        439502.35   3761448.92        8.90857  (16021419)                439552.35
3761448.92        9.69460  (15031301)
        439152.35   3761498.92        6.21014  (16101918)                439202.35
3761498.92        6.50840  (16101918)
        439252.35   3761498.92        6.84483  (16101918)                439302.35
3761498.92        7.13390  (16101918)
        439352.35   3761498.92        7.44563  (16101918)                439402.35
3761498.92        7.84000  (13101522)
        439452.35   3761498.92        8.36083  (14042901)                439502.35
3761498.92        9.00898  (14042901)
        439552.35   3761498.92        9.73695  (16020619)                439152.35
3761548.92        6.32777  (14051322)
        439202.35   3761548.92        6.57215  (14051322)                439252.35
3761548.92        6.88620  (16101918)
        439302.35   3761548.92        7.22218  (16101918)                439352.35
3761548.92        7.56445  (16101918)
        439402.35   3761548.92        7.96857  (16101918)                439452.35
3761548.92        8.42685  (13101522)
        439502.35   3761548.92        9.06109  (14042901)                439552.35
3761548.92        9.85498  (15031304)
        439152.35   3761598.92        6.40068  (14051322)                439202.35
3761598.92        6.67277  (14051322)
        439252.35   3761598.92        6.98134  (14051322)                439302.35
3761598.92        7.28943  (14051322)
        439352.35   3761598.92        7.66028  (16101918)                439402.35
3761598.92        8.13450  (16101918)
        439452.35   3761598.92        8.64570  (16101918)                439502.35
3761598.92        9.17740  (14011517)
        439552.35   3761598.92        9.98621  (16101919)                439152.35
3761648.92        6.45881  (15031321)
        439202.35   3761648.92        6.74579  (15031321)                439252.35
3761648.92        7.07286  (14051322)
        439302.35   3761648.92        7.44645  (14051322)                439352.35
3761648.92        7.81421  (14051322)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***
INCLUDING SOURCE(S): L0012462 , L0012463 , L0012464 , L0012465 , L0012466 ,
L0012467 , L0012468 , L0012469 , L0012470 , L0012471 , L0012472 , L0012473 , L0012474 ,
L0012475 , L0012476 , L0012477 , L0012478 , L0012479 , L0012480 , L0012481 , L0012482 ,
L0012483 , L0012484 , L0012485 , L0012486 , L0012487 , L0012488 , L0012489 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439402.35	3761648.92	8.25247	(16101918)	439452.35	3761648.92	8.82422	(16101918)
439502.35	3761648.92	9.47011	(16101918)	439552.35	3761648.92	10.20339	(14011517)
439152.35	3761698.92	6.55517	(14051419)	439202.35	3761698.92	6.83194	(16092601)
439252.35	3761698.92	7.13642	(15031321)	439302.35	3761698.92	7.53024	(15031321)
439352.35	3761698.92	7.95478	(15031321)	439402.35	3761698.92	8.46684	(14051322)
439452.35	3761698.92	8.93366	(14051322)	439502.35	3761698.92	9.64176	(16101918)
439552.35	3761698.92	10.48344	(16101918)	439152.35	3761748.92	6.69688	(14051419)
439202.35	3761748.92	6.99741	(14051419)	439252.35	3761748.92	7.28694	(14051419)
439302.35	3761748.92	7.64663	(16092601)	439352.35	3761748.92	8.07429	(16092601)
439402.35	3761748.92	8.58091	(15031321)	439452.35	3761748.92	9.12320	(15031321)
439502.35	3761748.92	9.71777	(14051322)	439552.35	3761748.92	10.55444	(16101918)

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        439152.35   3761798.92        6.73332  (14051419)              439202.35
3761798.92        7.08925  (14051419)
        439252.35   3761798.92        7.45245  (14051419)              439302.35
3761798.92        7.88347  (14051419)
        439352.35   3761798.92        8.29452  (14051419)              439402.35
3761798.92        8.77114  (14051419)
        439452.35   3761798.92        9.35680  (16092601)              439502.35
3761798.92        9.96080  (15031321)
        439552.35   3761798.92       10.84928  (15031321)              439152.35
3761848.92        6.75153  (15030621)
        439202.35   3761848.92        7.10294  (15030621)              439252.35
3761848.92        7.46172  (15030621)
        439302.35   3761848.92        7.90362  (14051419)              439352.35
3761848.92        8.38356  (14051419)
        439402.35   3761848.92        9.00504  (14051419)              439452.35
3761848.92        9.64435  (14051419)
        439502.35   3761848.92       10.27201  (14051419)              439552.35
3761848.92       11.15365  (14051419)
        439152.35   3761898.92        6.94489  (15100918)              439202.35
3761898.92        7.27633  (15100918)
        439252.35   3761898.92        7.62477  (15100918)              439302.35
3761898.92        8.06162  (15100918)
        439352.35   3761898.92        8.51085  (13012017)              439402.35
3761898.92        9.05659  (13012017)
        439452.35   3761898.92        9.77938  (15030621)              439502.35
3761898.92       10.61592  (14051419)
        439552.35   3761898.92       11.60964  (14051419)              439152.35
3761948.92        7.05664  (15100918)
        439202.35   3761948.92        7.42126  (15100918)              439252.35
3761948.92        7.81198  (15100918)
        439302.35   3761948.92        8.31455  (15100918)              439352.35
3761948.92        8.85041  (15100918)
        439402.35   3761948.92        9.43316  (15100918)              439452.35
3761948.92       10.17305  (15100918)
        439502.35   3761948.92       11.00478  (15100918)              439552.35
3761948.92       11.97308  (15100918)
        439152.35   3761998.92        7.00356  (15100918)              439202.35
3761998.92        7.37548  (15100918)
        439252.35   3761998.92        7.78458  (15100918)              439302.35
3761998.92        8.31794  (15100918)
        439352.35   3761998.92        8.90970  (15100918)              439402.35
3761998.92        9.53971  (15100918)
        439452.35   3761998.92       10.32255  (15100918)              439502.35
3761998.92       11.24978  (15100918)
        439552.35   3761998.92       12.38387  (15100918)              439152.35
3762048.92        7.06658  (14011717)
        439202.35   3762048.92        7.45519  (14011717)              439252.35
3762048.92        7.89026  (14011717)
        439302.35   3762048.92        8.38643  (14011717)              439352.35
3762048.92        8.95358  (14011717)
        439402.35   3762048.92        9.60028  (14011717)              439452.35
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1OFFSIT ***
INCLUDING SOURCE(S): L0012462 , L0012463 , L0012464 , L0012465 , L0012466 ,
L0012467 , L0012468 , L0012469 , L0012470 , L0012471 , L0012472 , L0012473 , L0012474 ,
L0012475 , L0012476 , L0012477 , L0012478 , L0012479 , L0012480 , L0012481 , L0012482 ,
L0012483 , L0012484 , L0012485 , L0012486 , L0012487 , L0012488 , L0012489 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	15.10869	(13101517)	439766.61	3761520.65	18.42077	(13101517)
439816.61	3761520.65	24.87302	(14080302)	439866.61	3761520.65	54.49177	(16020317)
439616.61	3761570.65	11.23584	(15031301)	439666.61			

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3761570.65       12.95975  (13101517)
        439716.61   3761570.65       15.31541  (13101517)                439766.61
3761570.65       18.80474  (13101517)
        439816.61   3761570.65       25.54035  (15120208)                439866.61
3761570.65       54.61513  (16020317)
        440451.14   3762893.83       18.03863  (14051806)                440501.14
3762893.83       14.52665  (14051806)
        440551.14   3762893.83       12.64216  (14070423)                440601.14
3762893.83       11.61044  (14070423)
        440651.14   3762893.83       10.90630  (13082622)                440701.14
3762893.83       10.36372  (13082622)
        440751.14   3762893.83        9.63712  (15062023)                440801.14
3762893.83        9.21360  (12081324)
        440851.14   3762893.83        8.65879  (12081324)                440451.14
3762943.83       16.24906  (14063005)
        440501.14   3762943.83       13.92653  (15090821)                440551.14
3762943.83       12.37528  (15090821)
        440601.14   3762943.83       11.47830  (14070423)                440651.14
3762943.83       10.73791  (15081424)
        440701.14   3762943.83       10.22081  (13082622)                440751.14
3762943.83        9.55204  (13082622)
        440801.14   3762943.83        9.19100  (15062023)                440851.14
3762943.83        8.91902  (12081324)
        441116.67   3763135.31        7.43677  (15082423)                441166.67
3763135.31        7.15214  (16072902)
        441116.67   3763185.31        7.48011  (15082423)                441166.67
3763185.31        7.14137  (16072902)
        441116.67   3763235.31        7.41520  (15082423)                441166.67
3763235.31        7.15358  (15082423)
        441116.67   3763285.31        7.47427  (15062124)                441166.67
3763285.31        7.16681  (15082423)
        441116.67   3763335.31        7.46261  (16082224)                441166.67
3763335.31        7.18676  (15062124)
        441116.67   3763385.31        7.47301  (16082224)                441166.67
3763385.31        7.18932  (15062124)
        441116.67   3763435.31        7.47408  (16082224)                441166.67
3763435.31        7.22114  (16082224)
        440433.43   3762815.13       24.01577  (12122516)                440483.43
3762815.13       17.10295  (12122516)
        440533.43   3762815.13       13.74622  (13090621)                440583.43
3762815.13       12.09037  (13082622)
        440633.43   3762815.13       11.14367  (13082622)                440683.43
3762815.13       10.33832  (13071023)
        440733.43   3762815.13        9.83316  (12081324)                440783.43
3762815.13        9.28833  (12081324)
        440833.43   3762815.13        8.97634  (15080603)                440883.43
3762815.13        8.66339  (15062901)
        440933.43   3762815.13        8.11574  (16092821)                440983.43
3762815.13        7.68271  (15072905)
        440433.43   3762865.13       22.18727  (16012617)                440483.43
3762865.13       16.38137  (16012617)
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        440533.43   3762865.13       13.38773  (15082823)                440583.43
3762865.13       11.98600  (14070423)
        440633.43   3762865.13       11.14949  (13082622)                440683.43
3762865.13       10.48850  (13082622)
        440733.43   3762865.13        9.88622  (15062023)                440783.43
3762865.13        9.38057  (12081324)
        440833.43   3762865.13        8.80754  (13070101)                440883.43
3762865.13        8.35946  (15062901)
        440933.43   3762865.13        7.95650  (15062901)                440983.43
3762865.13        7.63243  (16092821)
        441118.27   3762686.02        6.87103  (15120817)                441168.27
3762686.02        6.62339  (14051521)
        441118.27   3762736.02        6.99603  (16092022)                441168.27
3762736.02        6.58535  (15120817)
        441118.27   3762786.02        6.91585  (15082522)                441168.27
3762786.02        6.59394  (15082522)
        441118.27   3762836.02        6.82938  (15082522)                441168.27
3762836.02        6.59635  (15082522)
        440411.67   3762093.41       55.03294  (13041207)                440461.67
3762093.41       42.90223  (13041207)
        440511.67   3762093.41       41.65315  (13041207)                440561.67
3762093.41       41.27369  (13041207)
        440611.67   3762093.41       41.07303  (13041207)                440411.67
3762143.41       44.06651  (13041207)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:47:09

                                   PAGE 101
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1OFFSIT ***
                                   INCLUDING SOURCE(S):     L0012462    , L0012463
, L0012464    , L0012465    , L0012466    ,
                  L0012467    , L0012468    , L0012469    , L0012470    , L0012471
, L0012472    , L0012473    , L0012474    ,
                  L0012475    , L0012476    , L0012477    , L0012478    , L0012479
, L0012480    , L0012481    , L0012482    ,
                  L0012483    , L0012484    , L0012485    , L0012486    , L0012487
, L0012488    , L0012489    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	2.12325	(12010913)	439943.36	3761716.33	2.92103	(12122413)
439170.17	3763092.51	1.52886	(16010413)	439220.17	3763092.51	1.64418	(16010413)
439270.17	3763092.51	1.78931	(15113013)	439320.17	3763092.51	1.95266	(15113013)
439370.17	3763092.51	2.12162	(15113013)	439420.17	3763092.51	2.29178	(15113013)
439470.17	3763092.51	2.45327	(15113013)	439520.17	3763092.51	2.59026	(15113013)
439570.17	3763092.51	2.68525	(15113013)	439620.17	3763092.51	2.71075	(15113013)
439670.17	3763092.51	2.63911	(15113013)	439720.17	3763092.51	2.45786	(15113013)
439770.17	3763092.51	2.70371	(14041413)	439820.17	3763092.51	3.55709	(14041413)
439870.17	3763092.51	4.34568	(14041413)	439170.17	3763142.51	1.47816	(15113013)
439220.17	3763142.51	1.59894	(15113013)	439270.17	3763142.51	1.72404	(15113013)
439320.17	3763142.51	1.84315	(15113013)	439370.17	3763142.51	1.95646	(15113013)
439420.17	3763142.51	2.05619	(15113013)	439470.17	3763142.51	2.12616	(15113013)
439520.17	3763142.51	2.15742	(15113013)	439570.17	3763142.51	2.13969	(15113013)
439620.17	3763142.51	2.05245	(15113013)	439670.17	3763142.51	1.88311	(15113013)
439720.17	3763142.51	2.02589	(14041413)	439770.17			

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3763142.51        2.66424  (14041413)
        439820.17   3763142.51        3.31442  (14041413)              439870.17
3763142.51        3.82797  (14041413)
        439170.17   3763192.51        1.42713  (15113013)              439220.17
3763192.51        1.51777  (15113013)
        439270.17   3763192.51        1.60387  (15113013)              439320.17
3763192.51        1.67470  (15113013)
        439370.17   3763192.51        1.73094  (15113013)              439420.17
3763192.51        1.76406  (15113013)
        439470.17   3763192.51        1.75926  (15113013)              439520.17
3763192.51        1.71418  (15113013)
        439570.17   3763192.51        1.62163  (15113013)              439620.17
3763192.51        1.47885  (15113013)
        439670.17   3763192.51        1.55325  (14041413)              439720.17
3763192.51        2.03547  (14041413)
        439770.17   3763192.51        2.55798  (14041413)              439820.17
3763192.51        3.03467  (14041413)
        439870.17   3763192.51        3.35125  (14041413)              439170.17
3763242.51        1.33595  (15113013)
        439220.17   3763242.51        1.39298  (15113013)              439270.17
3763242.51        1.43884  (15113013)
        439320.17   3763242.51        1.46605  (15113013)              439370.17
3763242.51        1.47190  (15113013)
        439420.17   3763242.51        1.44978  (15113013)              439470.17
3763242.51        1.39257  (15113013)
        439520.17   3763242.51        1.30199  (15113013)              439570.17
3763242.51        1.17709  (15113013)
        439620.17   3763242.51        1.21483  (14041413)              439670.17
3763242.51        1.59206  (14041413)
        439720.17   3763242.51        2.00837  (14041413)              439770.17
3763242.51        2.41968  (14041413)
        439820.17   3763242.51        2.74961  (14041413)              439870.17
3763242.51        2.92204  (14041413)
        439170.17   3763292.51        1.21170  (15113013)              439220.17
3763292.51        1.23369  (15113013)
        439270.17   3763292.51        1.24281  (15113013)              439320.17
3763292.51        1.23366  (15113013)
        439370.17   3763292.51        1.20349  (15113013)              439420.17
3763292.51        1.14314  (15113013)
        439470.17   3763292.51        1.05717  (15113013)              439520.17
3763292.51        0.94863  (14120813)
        439570.17   3763292.51        0.95766  (14041413)              439620.17
3763292.51        1.25730  (14041413)
        439670.17   3763292.51        1.59744  (14041413)              439720.17
3763292.51        1.94457  (14041413)
        439770.17   3763292.51        2.25239  (14041413)              439820.17
3763292.51        2.46884  (14041413)
        439870.17   3763292.51        2.58243  (15110913)              439170.17
3763342.51        1.06631  (15113013)
        439220.17   3763342.51        1.06092  (15113013)              439270.17
3763342.51        1.04348  (15113013)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	1.00602	(15113013)	439370.17	3763342.51	0.95087	(15113013)
439420.17	3763342.51	0.87291	(15113013)	439470.17	3763342.51	0.82840	(14120813)
439520.17	3763342.51	0.81558	(14120813)	439570.17	3763342.51	1.00493	(14041413)
439620.17	3763342.51	1.28313	(14041413)	439670.17	3763342.51	1.57677	(14041413)
439720.17	3763342.51	1.85650	(14041413)	439770.17	3763342.51	2.07717	(14041413)
439820.17	3763342.51	2.20380	(14041413)	439870.17	3763342.51	2.31578	(15110913)
439170.17	3763392.51	0.91134	(15113013)	439220.17	3763392.51	0.88545	(15113013)
439270.17	3763392.51	0.84831	(15113013)	439320.17	3763392.51	0.79256	(15113013)
439370.17	3763392.51	0.74182	(14120813)	439420.17	3763392.51	0.73257	(14120813)
439470.17	3763392.51	0.71739	(14120813)	439520.17	3763392.51	0.81190	(14041413)
439570.17	3763392.51	1.03876	(14041413)	439620.17	3763392.51	1.28782	(14041413)
439670.17	3763392.51	1.53351	(14041413)	439720.17	3763392.51	1.75194	(14041413)
439770.17	3763392.51	1.90174	(14041413)	439820.17	3763392.51	1.95877	(14041413)
439870.17	3763392.51	2.07841	(15110913)	439170.17	3763442.51	0.75763	(15113013)

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        439220.17   3763442.51        0.71796  (15113013)              439270.17
3763442.51        0.67455  (14120813)
        439320.17   3763442.51        0.66777  (14120813)              439370.17
3763442.51        0.65668  (14120813)
        439420.17   3763442.51        0.64076  (14120813)              439470.17
3763442.51        0.66198  (14041413)
        439520.17   3763442.51        0.84923  (14041413)              439570.17
3763442.51        1.05674  (14041413)
        439620.17   3763442.51        1.27328  (14041413)              439670.17
3763442.51        1.47425  (14041413)
        439720.17   3763442.51        1.63536  (14041413)              439770.17
3763442.51        1.72770  (14041413)
        439820.17   3763442.51        1.73379  (14041413)              439870.17
3763442.51        1.86821  (15110913)
        439203.20   3762911.16        2.36256  (12020613)              439253.20
3762911.16        2.53999  (12020613)
        439303.20   3762911.16        2.74220  (12020613)              439353.20
3762911.16        2.97758  (12020613)
        439403.20   3762911.16        3.24126  (12020613)              439453.20
3762911.16        3.54215  (12020613)
        439503.20   3762911.16        3.89076  (12020613)              439553.20
3762911.16        4.27976  (12020613)
        439203.20   3762961.16        2.21207  (12020613)              439253.20
3762961.16        2.34677  (12020613)
        439303.20   3762961.16        2.49013  (12020613)              439353.20
3762961.16        2.64734  (12020613)
        439403.20   3762961.16        2.81311  (12020613)              439453.20
3762961.16        2.98370  (12020613)
        439503.20   3762961.16        3.15916  (12020613)              439553.20
3762961.16        3.53025  (16010413)
        439203.20   3763011.16        1.95944  (12020613)              439253.20
3763011.16        2.03720  (12020613)
        439303.20   3763011.16        2.11277  (12020613)              439353.20
3763011.16        2.21208  (16010413)
        439403.20   3763011.16        2.43394  (16010413)              439453.20
3763011.16        2.67388  (15113013)
        439503.20   3763011.16        2.98412  (15113013)              439553.20
3763011.16        3.30821  (15113013)
        439203.20   3763061.16        1.64378  (16010413)              439253.20
3763061.16        1.78320  (16010413)
        439303.20   3763061.16        1.93038  (16010413)              439353.20
3763061.16        2.11531  (15113013)
        439403.20   3763061.16        2.32355  (15113013)              439453.20
3763061.16        2.53942  (15113013)
        439503.20   3763061.16        2.75207  (15113013)              439553.20
3763061.16        2.94603  (15113013)
        439196.01   3762392.48        2.62439  (14120113)              439246.01
3762392.48        2.85383  (14120113)
        439296.01   3762392.48        3.11730  (14120113)              439346.01
3762392.48        3.42509  (14120113)
        439396.01   3762392.48        3.79117  (14120113)              439446.01
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN   ***
                                    INCLUDING SOURCE(S):   PAREA1   , PAREA2
, PAREA3   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439496.01   3762392.48   4.78568 (14120113)   439546.01
3762392.48   5.48880 (14120113)
        439196.01   3762442.48   2.65934 (14120113)   439246.01
3762442.48   2.90415 (14120113)
        439296.01   3762442.48   3.18520 (14120113)   439346.01
3762442.48   3.51416 (14120113)
        439396.01   3762442.48   3.90131 (14120113)   439446.01
3762442.48   4.36779 (14120113)
        439496.01   3762442.48   4.94191 (14120113)   439546.01
3762442.48   5.66013 (14120113)
        439196.01   3762492.48   2.62038 (14120113)   439246.01
3762492.48   2.87419 (14120113)
        439296.01   3762492.48   3.16673 (14120113)   439346.01
3762492.48   3.50789 (14120113)
        439396.01   3762492.48   3.91143 (14120113)   439446.01
3762492.48   4.39450 (14120113)
        439496.01   3762492.48   4.97971 (14120113)   439546.01
3762492.48   5.70044 (14120113)
        439196.01   3762542.48   2.51181 (14120113)   439246.01
3762542.48   2.76647 (14120113)
        439296.01   3762542.48   3.06205 (14120113)   439346.01
3762542.48   3.40947 (14120113)
        439396.01   3762542.48   3.82081 (14120113)   439446.01
3762542.48   4.31557 (14120113)
        439496.01   3762542.48   4.91608 (14120113)   439546.01
3762542.48   5.65937 (14120113)
        439196.01   3762592.48   2.33542 (14120113)   439246.01

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3762592.48        2.58045  (14120113)
        439296.01   3762592.48        2.86892  (14120113)                439346.01
3762592.48        3.21149  (14120113)
        439396.01   3762592.48        3.62216  (14120113)                439446.01
3762592.48        4.12086  (14120113)
        439496.01   3762592.48        4.73698  (14120113)                439546.01
3762592.48        5.51419  (14120113)
        439196.01   3762642.48        2.09909  (14120113)                439246.01
3762642.48        2.32542  (14120113)
        439296.01   3762642.48        2.59516  (14120113)                439346.01
3762642.48        2.91834  (14120113)
        439396.01   3762642.48        3.30927  (14120113)                439446.01
3762642.48        3.79322  (14120113)
        439496.01   3762642.48        4.40248  (14120113)                439546.01
3762642.48        5.19001  (14120113)
        439196.01   3762692.48        2.02924  (12020613)                439246.01
3762692.48        2.23110  (12020613)
        439296.01   3762692.48        2.45788  (12020613)                439346.01
3762692.48        2.71852  (12020613)
        439396.01   3762692.48        3.01886  (12020613)                439446.01
3762692.48        3.36511  (12020613)
        439496.01   3762692.48        3.88091  (14120113)                439546.01
3762692.48        4.61707  (14120113)
        439196.01   3762742.48        2.17977  (12020613)                439246.01
3762742.48        2.38583  (12020613)
        439296.01   3762742.48        2.61588  (12020613)                439346.01
3762742.48        2.88361  (12020613)
        439396.01   3762742.48        3.19632  (12020613)                439446.01
3762742.48        3.56876  (12020613)
        439496.01   3762742.48        4.01503  (12020613)                439546.01
3762742.48        4.58703  (12020613)
        439196.01   3762792.48        2.29911  (12020613)                439246.01
3762792.48        2.51133  (12020613)
        439296.01   3762792.48        2.74701  (12020613)                439346.01
3762792.48        3.02385  (12020613)
        439396.01   3762792.48        3.35514  (12020613)                439446.01
3762792.48        3.76179  (12020613)
        439496.01   3762792.48        4.25941  (12020613)                439546.01
3762792.48        4.90087  (12020613)
        439196.01   3762842.48        2.36979  (12020613)                439246.01
3762842.48        2.57921  (12020613)
        439296.01   3762842.48        2.81625  (12020613)                439346.01
3762842.48        3.09351  (12020613)
        439396.01   3762842.48        3.42206  (12020613)                439446.01
3762842.48        3.82284  (12020613)
        439496.01   3762842.48        4.31104  (12020613)                439546.01
3762842.48        4.92337  (12020613)
        439573.31   3762470.54        6.16118  (14120113)                439623.31
3762470.54        7.15542  (14120113)
        439673.31   3762470.54        8.40547  (14120113)                439723.31
3762470.54       10.03986  (14120113)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439773.31	3762470.54	12.34862	(14120113)	439823.31	3762470.54	16.04891	(14120113)
439873.31	3762470.54	23.33381	(14120113)	439573.31	3762520.54	6.15348	(14120113)
439623.31	3762520.54	7.13384	(14120113)	439673.31	3762520.54	8.30357	(14120113)
439723.31	3762520.54	9.71205	(14120113)	439773.31	3762520.54	11.43644	(14120113)
439823.31	3762520.54	13.59055	(14120113)	439873.31	3762520.54	16.97198	(12020613)
439573.31	3762570.54	6.08444	(14120113)	439623.31	3762570.54	7.12999	(14120113)
439673.31	3762570.54	8.40233	(14120113)	439723.31	3762570.54	9.95961	(14120113)
439773.31	3762570.54	11.89586	(14120113)	439823.31	3762570.54	14.35188	(14120113)
439873.31	3762570.54	17.47815	(14120113)	439573.31	3762620.54	5.88070	(14120113)
439623.31	3762620.54	7.02378	(14120113)	439673.31	3762620.54	8.49473	(14120113)
439723.31	3762620.54	10.43410	(14120113)	439773.31	3762620.54	13.13687	(14120113)
439823.31	3762620.54	17.16077	(14120113)	439873.31	3762620.54	23.98829	(14120113)
439573.31	3762670.54	5.41832	(14120113)	439623.31	3762670.54	6.57279	(14120113)
439673.31	3762670.54	8.14849	(14120113)	439723.31	3762670.54	10.34025	(14120113)

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        439773.31   3762670.54       13.54098  (14120113)              439823.31
3762670.54       18.56770  (14120113)
        439873.31   3762670.54       27.23443  (14120113)              439152.35
3761448.92        1.56146  (12121713)
        439202.35   3761448.92        1.51897  (12121713)              439252.35
3761448.92        1.46659  (12121713)
        439302.35   3761448.92        1.42615  (12122413)              439352.35
3761448.92        1.78107  (12122413)
        439402.35   3761448.92        2.15719  (12122413)              439452.35
3761448.92        2.52690  (12122413)
        439502.35   3761448.92        2.85314  (12122413)              439552.35
3761448.92        3.09505  (12122413)
        439152.35   3761498.92        1.64852  (12121713)              439202.35
3761498.92        1.61694  (12121713)
        439252.35   3761498.92        1.57424  (12121713)              439302.35
3761498.92        1.51795  (12121713)
        439352.35   3761498.92        1.66761  (12122413)              439402.35
3761498.92        2.07207  (12122413)
        439452.35   3761498.92        2.49111  (12122413)              439502.35
3761498.92        2.88762  (12122413)
        439552.35   3761498.92        3.21650  (12122413)              439152.35
3761548.92        1.73093  (12121713)
        439202.35   3761548.92        1.71105  (12121713)              439252.35
3761548.92        1.67956  (12121713)
        439302.35   3761548.92        1.63402  (12121713)              439352.35
3761548.92        1.57538  (12121713)
        439402.35   3761548.92        1.95980  (12122413)              439452.35
3761548.92        2.42035  (12122413)
        439502.35   3761548.92        2.88447  (12122413)              439552.35
3761548.92        3.30399  (12122413)
        439152.35   3761598.92        1.80660  (12121713)              439202.35
3761598.92        1.80021  (12121713)
        439252.35   3761598.92        1.78234  (12121713)              439302.35
3761598.92        1.75105  (12121713)
        439352.35   3761598.92        1.70498  (12121713)              439402.35
3761598.92        1.82206  (12122413)
        439452.35   3761598.92        2.31376  (12122413)              439502.35
3761598.92        2.83812  (12122413)
        439552.35   3761598.92        3.34812  (12122413)              439152.35
3761648.92        1.87339  (12121713)
        439202.35   3761648.92        1.88278  (12121713)              439252.35
3761648.92        1.88127  (12121713)
        439302.35   3761648.92        1.86642  (12121713)              439352.35
3761648.92        1.83689  (12121713)
        439402.35   3761648.92        1.79262  (12121713)              439452.35
3761648.92        2.17339  (12122413)
        439502.35   3761648.92        2.74587  (12122413)              439552.35
3761648.92        3.34097  (12122413)
        439152.35   3761698.92        1.92926  (12121713)              439202.35
3761698.92        1.95542  (12121713)
        439252.35   3761698.92        1.97150  (12121713)              439302.35
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	2.00276	(12122413)	439502.35	3761698.92	2.60891	(12122413)
439552.35	3761698.92	3.27738	(12122413)	439152.35	3761748.92	1.97082	(12121713)
439202.35	3761748.92	2.01604	(12121713)	439252.35	3761748.92	2.05166	(12121713)
439302.35	3761748.92	2.07831	(12121713)	439352.35	3761748.92	2.09245	(12121713)
439402.35	3761748.92	2.09189	(12121713)	439452.35	3761748.92	2.07418	(12121713)
439502.35	3761748.92	2.43105	(12122413)	439552.35	3761748.92	3.15582	(12122413)
439152.35	3761798.92	1.99659	(12121713)	439202.35	3761798.92	2.06146	(12121713)
439252.35	3761798.92	2.11914	(12121713)	439302.35	3761798.92	2.16966	(12121713)
439352.35	3761798.92	2.20918	(12121713)	439402.35	3761798.92	2.23701	(12121713)
439452.35	3761798.92	2.24983	(12121713)	439502.35	3761798.92	2.24307	(12121713)
439552.35	3761798.92	2.97490	(12122413)	439152.35	3761848.92	2.00360	(12121713)
439202.35	3761848.92	2.08802	(12121713)	439252.35	3761848.92	2.16830	(12121713)
439302.35	3761848.92	2.24439	(12121713)	439352.35			

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3761848.92        2.31293  (12121713)
        439402.35   3761848.92        2.37352  (12121713)                439452.35
3761848.92        2.42144  (12121713)
        439502.35   3761848.92        2.45330  (12121713)                439552.35
3761848.92        2.74170  (12122413)
        439152.35   3761898.92        1.99040  (12121713)                439202.35
3761898.92        2.09365  (12121713)
        439252.35   3761898.92        2.19692  (12121713)                439302.35
3761898.92        2.30010  (12121713)
        439352.35   3761898.92        2.39985  (12121713)                439402.35
3761898.92        2.49502  (12121713)
        439452.35   3761898.92        2.58335  (12121713)                439502.35
3761898.92        2.66078  (12121713)
        439552.35   3761898.92        2.72212  (12121713)                439152.35
3761948.92        1.95555  (12121713)
        439202.35   3761948.92        2.07594  (12121713)                439252.35
3761948.92        2.20057  (12121713)
        439302.35   3761948.92        2.33053  (12121713)                439352.35
3761948.92        2.46244  (12121713)
        439402.35   3761948.92        2.59529  (12121713)                439452.35
3761948.92        2.72785  (12121713)
        439502.35   3761948.92        2.85652  (12121713)                439552.35
3761948.92        2.97708  (12121713)
        439152.35   3761998.92        1.89832  (12121713)                439202.35
3761998.92        2.03385  (12121713)
        439252.35   3761998.92        2.17809  (12121713)                439302.35
3761998.92        2.33256  (12121713)
        439352.35   3761998.92        2.49569  (12121713)                439402.35
3761998.92        2.66653  (12121713)
        439452.35   3761998.92        2.84547  (12121713)                439502.35
3761998.92        3.03062  (12121713)
        439552.35   3761998.92        3.21899  (12121713)                439152.35
3762048.92        1.81864  (12121713)
        439202.35   3762048.92        1.96734  (12121713)                439252.35
3762048.92        2.12848  (12121713)
        439302.35   3762048.92        2.30412  (12121713)                439352.35
3762048.92        2.49476  (12121713)
        439402.35   3762048.92        2.70195  (12121713)                439452.35
3762048.92        2.92714  (12121713)
        439502.35   3762048.92        3.17075  (12121713)                439552.35
3762048.92        3.43282  (12121713)
        439616.61   3761420.65        3.07882  (12122413)                439666.61
3761420.65        2.96033  (12122413)
        439716.61   3761420.65        2.70031  (12122413)                439766.61
3761420.65        2.32709  (12122413)
        439816.61   3761420.65        1.88897  (12122413)                439866.61
3761420.65        1.54394  (15010513)
        439616.61   3761470.65        3.32525  (12122413)                439666.61
3761470.65        3.27659  (12122413)
        439716.61   3761470.65        3.05852  (12122413)                439766.61
3761470.65        2.69274  (12122413)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	3.44911	(12122413)	439766.61	3761520.65	3.10892	(12122413)
439816.61	3761520.65	2.62618	(12122413)	439866.61	3761520.65	2.07165	(12122413)
439616.61	3761570.65	3.77453	(12122413)	439666.61	3761570.65	3.93061	(12122413)
439716.61	3761570.65	3.86834	(12122413)	439766.61	3761570.65	3.57855	(12122413)
439816.61	3761570.65	3.09473	(12122413)	439866.61	3761570.65	2.49169	(12122413)
440451.14	3762893.83	11.08770	(12032613)	440501.14	3762893.83	8.50308	(12032613)
440551.14	3762893.83	7.08865	(12042313)	440601.14	3762893.83	6.17999	(12042313)
440651.14	3762893.83	5.33641	(12042313)	440701.14	3762893.83	4.62263	(12042313)
440751.14	3762893.83	4.04569	(12042313)	440801.14	3762893.83	3.59747	(12042313)
440851.14	3762893.83	3.24309	(12042313)	440451.14	3762943.83	9.53686	(12032613)
440501.14	3762943.83	7.99051	(12032613)	440551.14	3762943.83	6.57783	(12032613)
440601.14	3762943.83	5.38908	(12032613)	440651.14	3762943.83	4.77298	(12042313)

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        440701.14   3762943.83        4.37426  (12042313)              440751.14
3762943.83        3.95770  (12042313)
        440801.14   3762943.83        3.58615  (12042313)              440851.14
3762943.83        3.25595  (12042313)
        441116.67   3763135.31        1.66522  (12042313)              441166.67
3763135.31        1.63222  (12042313)
        441116.67   3763185.31        1.38302  (14122213)              441166.67
3763185.31        1.37910  (12042313)
        441116.67   3763235.31        1.34685  (14122213)              441166.67
3763235.31        1.27261  (14122213)
        441116.67   3763285.31        1.30108  (12032613)              441166.67
3763285.31        1.22805  (14122213)
        441116.67   3763335.31        1.33094  (12021313)              441166.67
3763335.31        1.18006  (12032613)
        441116.67   3763385.31        1.37575  (13050613)              441166.67
3763385.31        1.23899  (12021313)
        441116.67   3763435.31        1.39744  (13050613)              441166.67
3763435.31        1.27005  (12021313)
        440433.43   3762815.13       13.56215  (12042313)              440483.43
3762815.13       10.09229  (12042313)
        440533.43   3762815.13        7.70336  (12042313)              440583.43
3762815.13        6.09243  (12042313)
        440633.43   3762815.13        5.04767  (12042313)              440683.43
3762815.13        4.36914  (12042313)
        440733.43   3762815.13        3.90027  (12042313)              440783.43
3762815.13        3.54105  (12042313)
        440833.43   3762815.13        3.22863  (12042313)              440883.43
3762815.13        2.93814  (12042313)
        440933.43   3762815.13        2.65874  (12042313)              440983.43
3762815.13        2.39093  (12042313)
        440433.43   3762865.13       12.87710  (12032613)              440483.43
3762865.13        9.68040  (12042313)
        440533.43   3762865.13        8.08708  (12042313)              440583.43
3762865.13        6.70765  (12042313)
        440633.43   3762865.13        5.59877  (12042313)              440683.43
3762865.13        4.75645  (12042313)
        440733.43   3762865.13        4.13157  (12042313)              440783.43
3762865.13        3.66751  (12042313)
        440833.43   3762865.13        3.30762  (12042313)              440883.43
3762865.13        3.00936  (12042313)
        440933.43   3762865.13        2.74667  (12042313)              440983.43
3762865.13        2.50555  (12042313)
        441118.27   3762686.02        1.66444  (13010713)              441168.27
3762686.02        1.53115  (12100813)
        441118.27   3762736.02        1.65788  (12100813)              441168.27
3762736.02        1.53278  (12100813)
        441118.27   3762786.02        1.66604  (12091013)              441168.27
3762786.02        1.50244  (12091013)
        441118.27   3762836.02        1.83064  (12042313)              441168.27
3762836.02        1.63159  (12042313)
        440411.67   3762093.41        4.78305  (12031213)              440461.67
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	5.03072	(12031213)	440511.67	3762143.41	4.63574	(12031213)
440561.67	3762143.41	4.21079	(12031213)	440611.67	3762143.41	3.75322	(12031213)
440406.61	3762008.86	3.94567	(15122113)	440456.61	3762008.86	3.55734	(12031213)
440506.61	3762008.86	3.37951	(12031213)	440556.61	3762008.86	3.19969	(12031213)
440606.61	3762008.86	3.00667	(12031213)	440656.61	3762008.86	2.79609	(12031213)
440706.61	3762008.86	2.56891	(12031213)	440756.61	3762008.86	2.41551	(12030513)
440806.61	3762008.86	2.37819	(12030513)	440856.61	3762008.86	2.32555	(12030513)
440906.61	3762008.86	2.25985	(12030513)	440956.61	3762008.86	2.18069	(12030513)
441006.61	3762008.86	2.09309	(12030513)	441056.61	3762008.86	1.99816	(12030513)
441106.61	3762008.86	1.90026	(12030513)	441156.61	3762008.86	1.80079	(12030513)
440406.61	3762058.86	4.38143	(12031213)	440456.61	3762058.86	4.08719	(12031213)
440506.61	3762058.86	3.82523	(12031213)	440556.61			

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 ,
L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 ,
L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 ,
L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)

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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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        439220.17   3763242.51       34.64497  (15031221)                439270.17
3763242.51       36.19631  (15031221)
        439320.17   3763242.51       37.97426  (15031221)                439370.17
3763242.51       39.59846  (15031221)
        439420.17   3763242.51       41.31282  (13101603)                439470.17
3763242.51       43.96050  (13101421)
        439520.17   3763242.51       46.84644  (16102418)                439570.17
3763242.51       49.46087  (16102418)
        439620.17   3763242.51       53.13734  (15060905)                439670.17
3763242.51       57.76597  (15060905)
        439720.17   3763242.51       63.70879  (16102019)                439770.17
3763242.51       70.81909  (16102019)
        439820.17   3763242.51       81.24027  (14111508)                439870.17
3763242.51      105.78016  (15101219)
        439170.17   3763292.51       33.66804  (15031221)                439220.17
3763292.51       35.89966  (15031221)
        439270.17   3763292.51       36.93810  (12020718)                439320.17
3763292.51       38.11634  (15120219)
        439370.17   3763292.51       39.15541  (15120219)                439420.17
3763292.51       41.70342  (16102418)
        439470.17   3763292.51       44.64319  (16102418)                439520.17
3763292.51       47.38064  (15060905)
        439570.17   3763292.51       49.29123  (15060905)                439620.17
3763292.51       52.69460  (15060905)
        439670.17   3763292.51       56.38020  (16102019)                439720.17
3763292.51       62.71066  (16102019)
        439770.17   3763292.51       71.35887  (16102019)                439820.17
3763292.51       80.75603  (12022508)
        439870.17   3763292.51      103.03654  (15101219)                439170.17
3763342.51       34.15386  (12020718)
        439220.17   3763342.51       36.26367  (12020718)                439270.17
3763342.51       36.74763  (15120219)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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                                    PAGE 110
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0011959    , L0011960
, L0011961    , L0011962    , L0011963    ,
                   L0011964    , L0011953    , L0011954    , L0011955    , L0011965
, L0011966    , L0011967    , L0011968    ,
                   L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                   L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	38.04364	(13101421)	439370.17	3763342.51	38.97435	(16102418)
439420.17	3763342.51	41.39384	(16102418)	439470.17	3763342.51	44.31901	(15060905)
439520.17	3763342.51	47.56470	(15060905)	439570.17	3763342.51	49.44310	(15060905)
439620.17	3763342.51	51.53398	(16102019)	439670.17	3763342.51	56.18980	(16102019)
439720.17	3763342.51	61.83878	(16102019)	439770.17	3763342.51	69.46014	(16111720)
439820.17	3763342.51	79.38069	(15100921)	439870.17	3763342.51	100.70228	(15101219)
439170.17	3763392.51	35.29450	(14030901)	439220.17	3763392.51	37.46399	(14030901)
439270.17	3763392.51	37.08357	(13101421)	439320.17	3763392.51	39.50067	(16102418)
439370.17	3763392.51	40.08863	(16102418)	439420.17	3763392.51	43.49974	(15070104)
439470.17	3763392.51	47.12973	(15070104)	439520.17	3763392.51	47.74609	(15060905)
439570.17	3763392.51	49.23930	(14091605)	439620.17	3763392.51	51.53292	(16102019)
439670.17	3763392.51	57.18086	(16102019)	439720.17	3763392.51	60.68152	(16111720)
439770.17	3763392.51	67.27901	(15100921)	439820.17	3763392.51	77.15825	(15101219)
439870.17	3763392.51	96.83654	(15101219)	439170.17	3763442.51	36.54230	(15101220)
439220.17	3763442.51	37.66514	(13101421)	439270.17	3763442.51	37.98173	(16102418)
439320.17	3763442.51	39.49738	(15102306)	439370.17	3763442.51	41.71854	(15070104)
439420.17	3763442.51	43.89336	(15070104)	439470.17	3763442.51	46.40834	(14010617)
439520.17	3763442.51	47.86100	(15031521)	439570.17	3763442.51	50.02649	(16102019)
439620.17	3763442.51	52.76595	(16102019)	439670.17	3763442.51	55.60876	(13050222)
439720.17	3763442.51	59.73170	(16111720)	439770.17	3763442.51	66.12408	(15100921)
439820.17	3763442.51	74.80558	(15101219)	439870.17			

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3763442.51       92.76314  (15012822)
        439203.20   3762911.16       35.79916  (15031224)                439253.20
3762911.16       37.70968  (15031224)
        439303.20   3762911.16       40.17932  (15063019)                439353.20
3762911.16       43.07741  (15063019)
        439403.20   3762911.16       46.24937  (15063019)                439453.20
3762911.16       49.87557  (15063019)
        439503.20   3762911.16       53.93995  (15063019)                439553.20
3762911.16       58.54238  (15063019)
        439203.20   3762961.16       36.15088  (15063019)                439253.20
3762961.16       38.21909  (15063019)
        439303.20   3762961.16       40.48659  (15063019)                439353.20
3762961.16       43.01571  (15063019)
        439403.20   3762961.16       45.72748  (15063019)                439453.20
3762961.16       48.57749  (15063019)
        439503.20   3762961.16       52.03696  (15112017)                439553.20
3762961.16       56.52767  (15112017)
        439203.20   3763011.16       35.93296  (15063019)                439253.20
3763011.16       37.67931  (15063019)
        439303.20   3763011.16       39.62172  (15112017)                439353.20
3763011.16       42.19096  (15112017)
        439403.20   3763011.16       44.48439  (15112017)                439453.20
3763011.16       47.74101  (15090919)
        439503.20   3763011.16       51.45866  (15090919)                439553.20
3763011.16       55.93726  (15090919)
        439203.20   3763061.16       35.31659  (15112017)                439253.20
3763061.16       37.18895  (15090919)
        439303.20   3763061.16       39.46805  (15090919)                439353.20
3763061.16       41.84729  (15090919)
        439403.20   3763061.16       44.37297  (15090919)                439453.20
3763061.16       46.94986  (15090919)
        439503.20   3763061.16       49.76642  (16122818)                439553.20
3763061.16       53.56383  (16122818)
        439196.01   3762392.48       36.66459  (15030621)                439246.01
3762392.48       38.63822  (15030621)
        439296.01   3762392.48       40.92627  (14051419)                439346.01
3762392.48       43.48854  (14051419)
        439396.01   3762392.48       46.18768  (14051419)                439446.01
3762392.48       49.01738  (14051419)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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                                    PAGE 111
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0011959    , L0011960
, L0011961    , L0011962    , L0011963    ,
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                L0011964    , L0011953    , L0011954    , L0011955    , L0011965
, L0011966    , L0011967    , L0011968    ,
                L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439496.01   3762392.48       52.28051  (14051419)               439546.01
3762392.48       56.11334  (14051419)
        439196.01   3762442.48       36.63583  (15100918)               439246.01
3762442.48       38.38987  (13012017)
        439296.01   3762442.48       40.55553  (15030621)               439346.01
3762442.48       42.99214  (15030621)
        439396.01   3762442.48       45.65449  (14051419)               439446.01
3762442.48       48.88742  (14051419)
        439496.01   3762442.48       52.27314  (14051419)               439546.01
3762442.48       55.89895  (14051419)
        439196.01   3762492.48       37.13515  (15100918)               439246.01
3762492.48       38.96510  (15100918)
        439296.01   3762492.48       40.98689  (15100918)               439346.01
3762492.48       43.14847  (15100918)
        439396.01   3762492.48       45.41283  (13012017)               439446.01
3762492.48       48.24978  (15030621)
        439496.01   3762492.48       51.86770  (14051419)               439546.01
3762492.48       56.14231  (14051419)
        439196.01   3762542.48       36.88263  (15100918)               439246.01
3762542.48       38.90912  (15100918)
        439296.01   3762542.48       41.16623  (15100918)               439346.01
3762542.48       43.55188  (15100918)
        439396.01   3762542.48       46.17211  (15100918)               439446.01
3762542.48       48.96074  (15100918)
        439496.01   3762542.48       52.11143  (15100918)               439546.01
3762542.48       55.81637  (15030621)
        439196.01   3762592.48       36.42530  (14011717)               439246.01
3762592.48       38.26688  (14011717)
        439296.01   3762592.48       40.46287  (13101422)               439346.01
3762592.48       43.10909  (15100918)
        439396.01   3762592.48       46.11056  (15100918)               439446.01
3762592.48       49.49523  (15100918)
        439496.01   3762592.48       53.41406  (15100918)               439546.01
3762592.48       57.59144  (15100918)
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        439196.01   3762642.48       36.54562  (14020117)               439246.01
3762642.48       38.58947  (14011717)
        439296.01   3762642.48       40.76052  (14011717)               439346.01
3762642.48       43.14632  (14011717)
        439396.01   3762642.48       45.93180  (14011717)               439446.01
3762642.48       49.08823  (14011717)
        439496.01   3762642.48       52.78261  (14011717)               439546.01
3762642.48       57.47616  (15100918)
        439196.01   3762692.48       36.68583  (16102417)               439246.01
3762692.48       38.68978  (16102417)
        439296.01   3762692.48       40.94485  (16102417)               439346.01
3762692.48       43.41464  (16102417)
        439396.01   3762692.48       46.09839  (16102417)               439446.01
3762692.48       49.35127  (16102417)
        439496.01   3762692.48       53.36736  (14011717)               439546.01
3762692.48       58.15472  (14011717)
        439196.01   3762742.48       35.96743  (16122920)               439246.01
3762742.48       37.92259  (16122920)
        439296.01   3762742.48       40.17451  (16122920)               439346.01
3762742.48       42.67248  (16122920)
        439396.01   3762742.48       45.53311  (16122920)               439446.01
3762742.48       48.86056  (16122920)
        439496.01   3762742.48       52.96464  (16102417)               439546.01
3762742.48       57.66221  (16102417)
        439196.01   3762792.48       35.60029  (16022406)               439246.01
3762792.48       37.54470  (15051306)
        439296.01   3762792.48       39.80418  (15051306)               439346.01
3762792.48       42.35818  (15051306)
        439396.01   3762792.48       45.27250  (15051306)               439446.01
3762792.48       48.60925  (15051306)
        439496.01   3762792.48       52.60378  (15051306)               439546.01
3762792.48       57.24253  (15051306)
        439196.01   3762842.48       35.65657  (15110717)               439246.01
3762842.48       37.62190  (15110717)
        439296.01   3762842.48       39.83372  (15110717)               439346.01
3762842.48       42.33251  (15110717)
        439396.01   3762842.48       45.19352  (15110717)               439446.01
3762842.48       48.45235  (15110717)
        439496.01   3762842.48       52.35060  (15031224)               439546.01
3762842.48       57.09634  (15031224)
        439573.31   3762470.54       58.11175  (14051419)               439623.31
3762470.54       62.65451  (16092601)
        439673.31   3762470.54       68.76147  (15031321)               439723.31
3762470.54       76.12927  (14051322)
        439773.31   3762470.54       86.80130  (16101918)               439823.31
3762470.54      103.49642  (13050219)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***          04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***         22:47:09
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 , L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 , L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 , L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	128.95253	(12100607)	439573.31	3762520.54	58.47348	(14051419)
439623.31	3762520.54	63.88246	(14051419)	439673.31	3762520.54	69.94295	(14051419)
439723.31	3762520.54	77.93119	(15031321)	439773.31	3762520.54	88.56885	(15031321)
439823.31	3762520.54	103.76264	(15060824)	439873.31	3762520.54	129.14982	(16092522)
439573.31	3762570.54	58.90902	(15100918)	439623.31	3762570.54	64.02128	(15030621)
439673.31	3762570.54	71.26841	(14051419)	439723.31	3762570.54	79.94692	(14051419)
439773.31	3762570.54	90.07050	(14051419)	439823.31	3762570.54	105.40920	(12100121)
439873.31	3762570.54	123.41230	(15060824)	439573.31	3762620.54	60.72102	(15100918)
439623.31	3762620.54	66.60350	(15100918)	439673.31	3762620.54	73.39698	(15100918)
439723.31	3762620.54	81.52361	(15100918)	439773.31	3762620.54	91.38273	(13012017)
439823.31	3762620.54	106.74248	(16061924)	439873.31	3762620.54	120.77268	(12101720)
439573.31	3762670.54	60.80303	(14011717)	439623.31	3762670.54	66.93778	(14011717)
439673.31	3762670.54	74.10500	(15100918)	439723.31	3762670.54	83.99456	(15100918)
439773.31	3762670.54	96.52309	(15100918)	439823.31			

```
3762670.54      112.39206  (15100918)
        439873.31   3762670.54      121.88226  (16061924)                439152.35
3761448.92       26.09328  (12010822)
        439202.35   3761448.92       26.67914  (14110501)                439252.35
3761448.92       27.79612  (15031301)
        439302.35   3761448.92       28.73706  (15031301)                439352.35
3761448.92       29.40209  (14112323)
        439402.35   3761448.92       30.97472  (12110417)                439452.35
3761448.92       32.99844  (12110417)
        439502.35   3761448.92       34.49557  (13101517)                439552.35
3761448.92       35.37492  (13101517)
        439152.35   3761498.92       26.68078  (12010822)                439202.35
3761498.92       27.68732  (12010822)
        439252.35   3761498.92       28.63708  (14110501)                439302.35
3761498.92       29.80119  (15031301)
        439352.35   3761498.92       30.60927  (15031301)                439402.35
3761498.92       31.35694  (14022807)
        439452.35   3761498.92       33.59595  (12110417)                439502.35
3761498.92       35.63882  (12110417)
        439552.35   3761498.92       37.08186  (13101517)                439152.35
3761548.92       27.72719  (16021419)
        439202.35   3761548.92       28.35452  (12010822)                439252.35
3761548.92       29.46674  (12010822)
        439302.35   3761548.92       30.32314  (14110501)                439352.35
3761548.92       31.65137  (15031301)
        439402.35   3761548.92       32.58234  (13112508)                439452.35
3761548.92       33.89446  (12110417)
        439502.35   3761548.92       36.53555  (12110417)                439552.35
3761548.92       38.50680  (13101517)
        439152.35   3761598.92       28.41242  (16021419)                439202.35
3761598.92       29.33329  (16021419)
        439252.35   3761598.92       30.17675  (12010822)                439302.35
3761598.92       31.23890  (12010822)
        439352.35   3761598.92       32.42272  (15031301)                439402.35
3761598.92       33.96598  (15031301)
        439452.35   3761598.92       34.96702  (13112508)                439502.35
3761598.92       37.23041  (12110417)
        439552.35   3761598.92       39.91022  (12110417)                439152.35
3761648.92       28.99086  (16020619)
        439202.35   3761648.92       30.10303  (16021419)                439252.35
3761648.92       31.28344  (16021419)
        439302.35   3761648.92       32.29501  (12010822)                439352.35
3761648.92       33.38085  (14110501)
        439402.35   3761648.92       35.14346  (15031301)                439452.35
3761648.92       36.63126  (15031301)
        439502.35   3761648.92       37.85890  (14022807)                439552.35
3761648.92       41.25608  (12110417)
        439152.35   3761698.92       29.95269  (14042901)                439202.35
3761698.92       30.75816  (16020619)
        439252.35   3761698.92       31.95991  (16021419)                439302.35
3761698.92       33.30092  (16021419)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0011959 , L0011960 , L0011961 , L0011962 , L0011963 ,
L0011964 , L0011953 , L0011954 , L0011955 , L0011965 , L0011966 , L0011967 , L0011968 ,
L0011969 , L0011970 , L0011971 , L0011972 , L0011973 , L0011974 , L0011975 , L0011976 ,
L0011977 , L0011978 , L0011979 , L0011980 , L0011981 , L0011982 , L0011983 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	37.99317	(15031301)	439502.35	3761698.92	39.66371	(13112508)
439552.35	3761698.92	42.08988	(12110417)	439152.35	3761748.92	30.32269	(14042901)
439202.35	3761748.92	31.79232	(14042901)	439252.35	3761748.92	32.67198	(16020619)
439302.35	3761748.92	34.20611	(16021419)	439352.35	3761748.92	35.67824	(16021419)
439402.35	3761748.92	37.22147	(12010822)	439452.35	3761748.92	38.88965	(14110501)
439502.35	3761748.92	41.13107	(15031301)	439552.35	3761748.92	43.00779	(13112508)
439152.35	3761798.92	30.94668	(14043002)	439202.35	3761798.92	32.21152	(14042901)
439252.35	3761798.92	33.88998	(14042901)	439302.35	3761798.92	35.24322	(14042901)
439352.35	3761798.92	36.75500	(16021419)	439402.35	3761798.92	38.38061	(16021419)
439452.35	3761798.92	40.34228	(12010822)	439502.35	3761798.92	42.26183	(15031301)

```
        439552.35   3761798.92       45.14650  (15031301)               439152.35
3761848.92       31.56521  (14043002)
        439202.35   3761848.92       33.04126  (14043002)               439252.35
3761848.92       34.14307  (14042901)
        439302.35   3761848.92       36.28887  (14042901)               439352.35
3761848.92       37.63245  (14042901)
        439402.35   3761848.92       39.81470  (16021419)               439452.35
3761848.92       41.73280  (16021419)
        439502.35   3761848.92       43.49533  (12010822)               439552.35
3761848.92       46.76983  (15031301)
        439152.35   3761898.92       32.28246  (13101522)               439202.35
3761898.92       33.75396  (13101522)
        439252.35   3761898.92       35.18154  (14043002)               439302.35
3761898.92       36.76863  (14043002)
        439352.35   3761898.92       39.15555  (14042901)               439402.35
3761898.92       41.01473  (14042901)
        439452.35   3761898.92       43.56039  (16021419)               439502.35
3761898.92       45.82663  (16021419)
        439552.35   3761898.92       48.48312  (12010822)               439152.35
3761948.92       32.94109  (16101918)
        439202.35   3761948.92       34.17378  (13101522)               439252.35
3761948.92       35.93119  (13101522)
        439302.35   3761948.92       37.96416  (14043002)               439352.35
3761948.92       39.84665  (14043002)
        439402.35   3761948.92       42.34380  (14042901)               439452.35
3761948.92       45.07136  (14042901)
        439502.35   3761948.92       47.94615  (16021419)               439552.35
3761948.92       50.79965  (16021419)
        439152.35   3761998.92       33.56164  (16101918)               439202.35
3761998.92       35.12703  (16101918)
        439252.35   3761998.92       36.34936  (16101918)               439302.35
3761998.92       38.74468  (13101522)
        439352.35   3761998.92       41.00255  (13101522)               439402.35
3761998.92       43.17620  (14043002)
        439452.35   3761998.92       46.17798  (14042901)               439502.35
3761998.92       49.33335  (14042901)
        439552.35   3761998.92       52.78569  (16021419)               439152.35
3762048.92       33.58539  (13100622)
        439202.35   3762048.92       35.51265  (16101918)               439252.35
3762048.92       37.72696  (16101918)
        439302.35   3762048.92       39.72196  (16101918)               439352.35
3762048.92       41.73735  (13101522)
        439402.35   3762048.92       44.41552  (13101522)               439452.35
3762048.92       47.32456  (14043002)
        439502.35   3762048.92       50.69384  (14042901)               439552.35
3762048.92       54.71933  (14042901)
        439616.61   3761420.65       36.42074  (14100421)               439666.61
3761420.65       38.66045  (13101419)
        439716.61   3761420.65       40.76118  (14050102)               439766.61
3761420.65       45.07032  (14050102)
        439816.61   3761420.65       50.39577  (13050220)               439866.61
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3761420.65   65.40584 (16092606)
        439616.61   3761470.65   37.74046 (14100421)   439666.61
3761470.65   40.06788 (13101419)
        439716.61   3761470.65   42.28037 (13101419)   439766.61
3761470.65   46.73220 (14050102)
        439816.61   3761470.65   52.68058 (13050220)   439866.61
3761470.65   70.92954 (16092606)
        439616.61   3761520.65   39.22554 (16092523)   439666.61
3761520.65   41.43483 (13101419)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0011959   , L0011960
, L0011961   , L0011962   , L0011963   ,
                  L0011964   , L0011953   , L0011954   , L0011955   , L0011965
, L0011966   , L0011967   , L0011968   ,
                  L0011969   , L0011970   , L0011971   , L0011972   , L0011973
, L0011974   , L0011975   , L0011976   ,
                  L0011977   , L0011978   , L0011979   , L0011980   , L0011981
, L0011982   , L0011983   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439716.61   3761520.65   44.31683 (13101419)   439766.61
3761520.65   48.59263 (14050102)
        439816.61   3761520.65   55.39022 (14050102)   439866.61
3761520.65   74.37327 (15120208)
        439616.61   3761570.65   41.06295 (13101517)   439666.61
3761570.65   43.18761 (14100421)
        439716.61   3761570.65   46.42116 (13101419)   439766.61
3761570.65   50.39545 (14050102)
        439816.61   3761570.65   58.16203 (14050102)   439866.61
3761570.65   76.95414 (15120208)
        440451.14   3762893.83   114.19194 (13062920)   440501.14
3762893.83   98.18931 (16061306)
        440551.14   3762893.83   85.97414 (16061306)   440601.14

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3762893.83       77.71885  (15092020)
        440651.14   3762893.83       71.01084  (15092020)                440701.14
3762893.83       65.70493  (15062719)
        440751.14   3762893.83       60.34277  (15062719)                440801.14
3762893.83       55.63985  (15091021)
        440851.14   3762893.83       51.66002  (16092820)                440451.14
3762943.83      108.61173  (15070606)
        440501.14   3762943.83       95.87435  (13062920)                440551.14
3762943.83       85.77258  (13062920)
        440601.14   3762943.83       77.83803  (16061306)                440651.14
3762943.83       70.53377  (13070820)
        440701.14   3762943.83       65.04231  (15092020)                440751.14
3762943.83       60.06619  (15092020)
        440801.14   3762943.83       56.40261  (15062719)                440851.14
3762943.83       52.99999  (15062719)
        441116.67   3763135.31       40.48725  (12092321)                441166.67
3763135.31       37.82318  (14101507)
        441116.67   3763185.31       40.72416  (15011617)                441166.67
3763185.31       38.45110  (12092321)
        441116.67   3763235.31       41.34149  (14051521)                441166.67
3763235.31       38.63289  (14060821)
        441116.67   3763285.31       43.41398  (15120817)                441166.67
3763285.31       40.20531  (14051521)
        441116.67   3763335.31       43.91539  (15082522)                441166.67
3763335.31       41.27238  (15120817)
        441116.67   3763385.31       43.97430  (15082522)                441166.67
3763385.31       42.31643  (15082522)
        441116.67   3763435.31       43.57661  (15071801)                441166.67
3763435.31       41.94457  (15082522)
        440433.43   3762815.13      134.31557  (13041207)                440483.43
3762815.13      106.85745  (13090620)
        440533.43   3762815.13       92.05319  (13090620)                440583.43
3762815.13       81.52134  (13090620)
        440633.43   3762815.13       73.72664  (13090620)                440683.43
3762815.13       67.09786  (13083023)
        440733.43   3762815.13       61.56353  (15101304)                440783.43
3762815.13       56.90967  (12092319)
        440833.43   3762815.13       52.87543  (12092319)                440883.43
3762815.13       49.44074  (14100319)
        440933.43   3762815.13       46.22516  (14100319)                440983.43
3762815.13       43.34375  (14100319)
        440433.43   3762865.13      137.85253  (13041207)                440483.43
3762865.13      103.81152  (15062719)
        440533.43   3762865.13       90.75388  (15062719)                440583.43
3762865.13       81.02156  (15062719)
        440633.43   3762865.13       73.45478  (15062719)                440683.43
3762865.13       66.82400  (15062719)
        440733.43   3762865.13       61.47754  (15091021)                440783.43
3762865.13       56.86120  (16111417)
        440833.43   3762865.13       53.01938  (13090620)                440883.43
3762865.13       49.34430  (13083023)
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        440933.43   3762865.13       46.04407  (13083023)               440983.43
3762865.13       43.26204  (15101304)
        441118.27   3762686.02       36.86189  (16073023)               441168.27
3762686.02       34.95882  (16073023)
        441118.27   3762736.02       37.27795  (15082521)               441168.27
3762736.02       35.42309  (15082521)
        441118.27   3762786.02       37.16236  (12102517)               441168.27
3762786.02       35.18810  (12102517)
        441118.27   3762836.02       37.08163  (14100319)               441168.27
3762836.02       35.15434  (12102517)
        440411.67   3762093.41       72.50852  (14110518)               440461.67
3762093.41       63.38196  (15012217)
        440511.67   3762093.41       59.63153  (12012517)               440561.67
3762093.41       55.38128  (12012517)
        440611.67   3762093.41       53.39344  (16070906)               440411.67
3762143.41       74.40859  (14110518)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        22:47:09

                                    PAGE 115
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0011959    , L0011960
, L0011961    , L0011962    , L0011963    ,
                   L0011964    , L0011953    , L0011954    , L0011955    , L0011965
, L0011966    , L0011967    , L0011968    ,
                   L0011969    , L0011970    , L0011971    , L0011972    , L0011973
, L0011974    , L0011975    , L0011976    ,
                   L0011977    , L0011978    , L0011979    , L0011980    , L0011981
, L0011982    , L0011983    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440461.67   3762143.41       65.22369  (15012217)               440511.67
3762143.41       60.57363  (12012517)
        440561.67   3762143.41       55.52875  (16021220)               440611.67
3762143.41       52.76479  (13012317)
        440406.61   3762008.86       61.94718  (12020717)               440456.61
3762008.86       61.49337  (15012217)
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        440506.61   3762008.86       59.13222  (12012517)                440556.61
3762008.86       56.47073  (12012517)
        440606.61   3762008.86       53.02746  (12012517)                440656.61
3762008.86       50.90323  (13092423)
        440706.61   3762008.86       49.66821  (13012317)                440756.61
3762008.86       48.08920  (13012317)
        440806.61   3762008.86       46.10788  (15081621)                440856.61
3762008.86       44.91391  (15081621)
        440906.61   3762008.86       43.82916  (16081621)                440956.61
3762008.86       42.69609  (15070806)
        441006.61   3762008.86       41.27988  (15080521)                441056.61
3762008.86       39.66772  (15080521)
        441106.61   3762008.86       38.25091  (14110417)                441156.61
3762008.86       37.21551  (14110417)
        440406.61   3762058.86       78.21747  (15091001)                440456.61
3762058.86       71.31744  (12012517)
        440506.61   3762058.86       67.97323  (12012517)                440556.61
3762058.86       64.54960  (12012517)
        440606.61   3762058.86       63.10663  (16070906)                440656.61
3762058.86       61.41478  (16070906)
        440706.61   3762058.86       58.90025  (16070906)                440756.61
3762058.86       57.88878  (12060606)
        440806.61   3762058.86       55.71901  (12060606)                440856.61
3762058.86       54.08717  (12060606)
        440906.61   3762058.86       53.16428  (14112208)                440956.61
3762058.86       52.22033  (14112208)
        441006.61   3762058.86       50.97173  (14112208)                441056.61
3762058.86       49.48903  (14112208)
        441106.61   3762058.86       48.16924  (14060806)                441156.61
3762058.86       46.19215  (15101306)
        440191.38   3762138.44       74.67343  (12020717)                440241.38
3762138.44       67.02126  (15091001)
        440291.38   3762138.44       62.41949  (15091001)                440341.38
3762138.44       61.37667  (12020717)
        440191.38   3762188.44       79.78588  (12020717)                440241.38
3762188.44       69.62042  (15012217)
        440291.38   3762188.44       65.18770  (12020717)                440341.38
3762188.44       65.86954  (12020717)
        440191.38   3762238.44       86.80613  (15091001)                440241.38
3762238.44       73.80569  (12012517)
        440291.38   3762238.44       70.03673  (16062006)                440341.38
3762238.44       71.71929  (12020717)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***         04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***         22:47:09

                                  PAGE 116
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
```

HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

GROUP ID	NETWORK AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
P1ONRUN	1ST HIGHEST VALUE IS	15.50182 AT (439873.31, 3762470.54, 214.70, 214.70, 0.00)	DC	
	2ND HIGHEST VALUE IS	14.24491 AT (439873.31, 3762520.54, 215.18, 215.18, 0.00)	DC	
	3RD HIGHEST VALUE IS	13.99045 AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC	
	4TH HIGHEST VALUE IS	12.40760 AT (439873.31, 3762570.54, 215.86, 215.86, 0.00)	DC	
	5TH HIGHEST VALUE IS	11.56541 AT (440483.43, 3762815.13, 219.43, 219.43, 0.00)	DC	
	6TH HIGHEST VALUE IS	11.33296 AT (440433.43, 3762865.13, 220.29, 220.29, 0.00)	DC	
	7TH HIGHEST VALUE IS	11.06304 AT (439873.31, 3762620.54, 216.53, 216.53, 0.00)	DC	
	8TH HIGHEST VALUE IS	10.36994 AT (439873.31, 3762670.54, 217.06, 217.06, 0.00)	DC	
	9TH HIGHEST VALUE IS	10.36298 AT (439823.31, 3762470.54, 214.39, 214.39, 0.00)	DC	
	10TH HIGHEST VALUE IS	9.75147 AT (439823.31, 3762520.54, 214.76, 214.76, 0.00)	DC	
P1ONIDLE	1ST HIGHEST VALUE IS	16.84303 AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC	
	2ND HIGHEST VALUE IS	12.77042 AT (440483.43, 3762815.13, 219.43, 219.43, 0.00)	DC	
	3RD HIGHEST VALUE IS	12.70318 AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	
	4TH HIGHEST VALUE IS	12.52902 AT (440433.43, 3762865.13, 220.29, 220.29, 0.00)	DC	
	5TH HIGHEST VALUE IS	10.73908 AT (439873.31, 3762470.54, 214.70, 214.70, 0.00)	DC	
	6TH HIGHEST VALUE IS	10.67204 AT (439873.31, 3762520.54, 215.18, 215.18, 0.00)	DC	
	7TH HIGHEST VALUE IS	10.56913 AT (439873.31, 3762570.54, 215.86, 215.86, 0.00)	DC	
	8TH HIGHEST VALUE IS	10.53875 AT (439873.31, 3762620.54, 216.53, 216.53, 0.00)	DC	
	9TH HIGHEST VALUE IS	10.46436 AT (440483.43, 3762865.13, 220.09,		

```
  220.09,    0.00)  DC
        10TH HIGHEST VALUE IS      10.38128 AT (  439873.31,  3762670.54,   217.06,
  217.06,    0.00)  DC

P1OFFSIT  1ST HIGHEST VALUE IS      21.05271 AT (  440411.67,  3762093.41,   211.84,
  211.84,    0.00)  DC
          2ND HIGHEST VALUE IS      18.14263 AT (  440406.61,  3762058.86,   211.32,
  211.32,    0.00)  DC
          3RD HIGHEST VALUE IS      17.26154 AT (  439870.17,  3763092.51,   222.55,
  222.55,    0.00)  DC
          4TH HIGHEST VALUE IS      17.02844 AT (  440456.61,  3762058.86,   211.24,
  211.24,    0.00)  DC
          5TH HIGHEST VALUE IS      16.82323 AT (  439870.17,  3763142.51,   223.17,
  223.17,    0.00)  DC
          6TH HIGHEST VALUE IS      16.71312 AT (  440461.67,  3762093.41,   211.67,
  211.67,    0.00)  DC
          7TH HIGHEST VALUE IS      16.38348 AT (  439870.17,  3763192.51,   223.85,
  223.85,    0.00)  DC
          8TH HIGHEST VALUE IS      16.37055 AT (  440506.61,  3762058.86,   211.29,
  211.29,    0.00)  DC
          9TH HIGHEST VALUE IS      15.92082 AT (  439870.17,  3763242.51,   224.54,
  224.54,    0.00)  DC
        10TH HIGHEST VALUE IS      15.90503 AT (  440556.61,  3762058.86,   211.31,
  211.31,    0.00)  DC

P1GEN     1ST HIGHEST VALUE IS       0.04595 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          2ND HIGHEST VALUE IS       0.03572 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
          3RD HIGHEST VALUE IS       0.03218 AT (  440433.43,  3762815.13,   219.62,
  219.62,    0.00)  DC
          4TH HIGHEST VALUE IS       0.02485 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
          5TH HIGHEST VALUE IS       0.02365 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
          6TH HIGHEST VALUE IS       0.02080 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
          7TH HIGHEST VALUE IS       0.01908 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
          8TH HIGHEST VALUE IS       0.01836 AT (  440533.43,  3762815.13,   219.20,
  219.20,    0.00)  DC
          9TH HIGHEST VALUE IS       0.01707 AT (  440483.43,  3762865.13,   220.09,
  220.09,    0.00)  DC
        10TH HIGHEST VALUE IS       0.01682 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      22:47:09
```

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
ALL	1ST HIGHEST VALUE IS	40.94793	AT (439873.31, 3762470.54, 214.70, 214.70, 0.00)	DC	
	2ND HIGHEST VALUE IS	39.60595	AT (439873.31, 3762520.54, 215.18, 215.18, 0.00)	DC	
	3RD HIGHEST VALUE IS	39.04973	AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC	
	4TH HIGHEST VALUE IS	37.38834	AT (439873.31, 3762570.54, 215.86, 215.86, 0.00)	DC	
	5TH HIGHEST VALUE IS	35.87360	AT (439873.31, 3762620.54, 216.53, 216.53, 0.00)	DC	
	6TH HIGHEST VALUE IS	35.04018	AT (439873.31, 3762670.54, 217.06, 217.06, 0.00)	DC	
	7TH HIGHEST VALUE IS	31.71406	AT (440433.43, 3762865.13, 220.29, 220.29, 0.00)	DC	
	8TH HIGHEST VALUE IS	30.11396	AT (440483.43, 3762815.13, 219.43, 219.43, 0.00)	DC	
	9TH HIGHEST VALUE IS	27.86018	AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	
	10TH HIGHEST VALUE IS	27.80758	AT (440411.67, 3762093.41, 211.84, 211.84, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF HIGHEST 1-HR

RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	DATE (YYMMDDHH) NETWORK GRID-ID	RECEPTOR
P1ONRUN HIGH 1ST HIGH VALUE IS	63.32288	ON 14033107:	AT (439873.31, 3762470.54, 214.70, 214.70, 0.00) DC
P1ONIDLE HIGH 1ST HIGH VALUE IS	78.51497	ON 13041207:	AT (440433.43, 3762865.13, 220.29, 220.29, 0.00) DC
P1OFFSIT HIGH 1ST HIGH VALUE IS	56.37309	ON 15090822:	AT (439870.17, 3763092.51, 222.55, 222.55, 0.00) DC
P1GEN HIGH 1ST HIGH VALUE IS	27.23443	ON 14120113:	AT (439873.31, 3762670.54, 217.06, 217.06, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS	137.85253	ON 13041207:	AT (440433.43, 3762865.13, 220.29, 220.29, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1279 Informational Message(s)

A Total of 43848 Hours Were Processed

```
A Total of          917 Calm Hours Identified

A Total of          362 Missing Hours Identified (  0.83 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    2147       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187    2147       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ***********************************
   *** AERMOD Finishes Successfully ***
   ***********************************
```

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/3/2023
** File:
C:\Lakes\OntarioEuclid_Phase1Ops_Mit_IDLEONLY\OntarioEuclid_Phase1Ops_Mit_IDLEONLY.A
DI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid_Phase 1 Operations_Mitigated IDLE Group
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_Phase1Ops_Mit_IDLEONLY.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Building 1 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0439137
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439979.680, 3762795.008, 219.39, 3.11, 6.98
** 440019.164, 3762795.008, 219.45, 3.11, 6.98
** ------------------------------------------------------------------------
```

```
   LOCATION L0012004     VOLUME   439987.180 3762795.008 219.43
   LOCATION L0012005     VOLUME   440002.180 3762795.008 219.45
   LOCATION L0012006     VOLUME   440017.180 3762795.008 219.47
** End of LINE VOLUME Source ID = SLINE26
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Building 2 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0485592
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439977.938, 3762735.201, 218.71, 3.11, 6.98
** 440018.584, 3762735.201, 218.82, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013410     VOLUME   439985.438 3762735.201 218.79
   LOCATION L0013411     VOLUME   440000.438 3762735.201 218.84
   LOCATION L0013412     VOLUME   440015.438 3762735.201 218.88
** End of LINE VOLUME Source ID = SLINE27
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Building 3 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0385124
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439995.358, 3762633.007, 217.26, 3.11, 6.98
** 439995.938, 3762581.909, 216.46, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013413     VOLUME   439995.443 3762625.507 217.14
   LOCATION L0013414     VOLUME   439995.613 3762610.508 216.95
   LOCATION L0013415     VOLUME   439995.784 3762595.509 216.73
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Building 4 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0549656
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
```

```
** 440075.488, 3762801.976, 219.54, 3.11, 6.98
** 440117.294, 3762801.976, 219.49, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013416     VOLUME   440082.988 3762801.976 219.48
   LOCATION L0013417     VOLUME   440097.988 3762801.976 219.47
   LOCATION L0013418     VOLUME   440112.988 3762801.976 219.49
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Building 5 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.092095
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440078.391, 3762717.201, 218.56, 3.11, 6.98
** 440078.391, 3762659.136, 217.97, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013419     VOLUME   440078.391 3762709.701 218.57
   LOCATION L0013420     VOLUME   440078.391 3762694.701 218.38
   LOCATION L0013421     VOLUME   440078.391 3762679.701 218.18
   LOCATION L0013422     VOLUME   440078.391 3762664.701 218.00
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC Building 6 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1609194
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440237.489, 3762788.041, 219.93, 3.11, 6.98
** 440238.651, 3762709.653, 219.12, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013423     VOLUME   440237.600 3762780.541 219.88
   LOCATION L0013424     VOLUME   440237.823 3762765.543 219.78
   LOCATION L0013425     VOLUME   440238.045 3762750.545 219.62
   LOCATION L0013426     VOLUME   440238.267 3762735.546 219.44
   LOCATION L0013427     VOLUME   440238.489 3762720.548 219.27
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Building 7 Idle
** PREFIX
```

```
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0937694
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440296.716, 3762795.008, 219.86, 3.11, 6.98
** 440296.716, 3762742.169, 218.72, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013428     VOLUME   440296.716 3762787.508 219.78
   LOCATION L0013429     VOLUME   440296.716 3762772.508 219.34
   LOCATION L0013430     VOLUME   440296.716 3762757.508 218.93
   LOCATION L0013431     VOLUME   440296.716 3762742.508 218.70
** End of LINE VOLUME Source ID = SLINE32
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Building 8 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0971183
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440246.780, 3762543.586, 214.83, 3.11, 6.98
** 440301.942, 3762543.586, 214.44, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013432     VOLUME   440254.280 3762543.586 214.62
   LOCATION L0013433     VOLUME   440269.280 3762543.586 214.34
   LOCATION L0013434     VOLUME   440284.280 3762543.586 214.39
   LOCATION L0013435     VOLUME   440299.280 3762543.586 214.40
** End of LINE VOLUME Source ID = SLINE33
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Building 9  Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1088395
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440053.423, 3762439.650, 215.38, 3.11, 6.98
** 440121.359, 3762440.230, 215.09, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013436     VOLUME   440060.923 3762439.714 215.39
   LOCATION L0013437     VOLUME   440075.922 3762439.842 215.27
   LOCATION L0013438     VOLUME   440090.921 3762439.970 215.16
   LOCATION L0013439     VOLUME   440105.921 3762440.098 215.11
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   LOCATION L0013440     VOLUME   440120.920 3762440.227 215.12
** End of LINE VOLUME Source ID = SLINE34
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Building 10 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0837997
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440051.681, 3762374.617, 214.11, 3.11, 6.98
** 440121.940, 3762375.778, 214.33, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013441     VOLUME   440059.180 3762374.741 214.42
   LOCATION L0013442     VOLUME   440074.178 3762374.989 214.38
   LOCATION L0013443     VOLUME   440089.176 3762375.237 214.35
   LOCATION L0013444     VOLUME   440104.174 3762375.484 214.32
   LOCATION L0013445     VOLUME   440119.172 3762375.732 214.26
** End of LINE VOLUME Source ID = SLINE35
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC Building 11 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0284657
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 2
** 439969.228, 3762487.263, 214.84, 0.52, 6.98
** 439995.938, 3762463.456, 214.83, 0.52, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013446     VOLUME   439974.827 3762482.273 214.89
   LOCATION L0013447     VOLUME   439986.025 3762472.292 214.87
** End of LINE VOLUME Source ID = SLINE36
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Building 12 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0251323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439972.712, 3762357.197, 213.29, 3.11, 6.98
```

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** 439994.196, 3762332.229, 213.46, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0013448     VOLUME   439977.604 3762351.512 213.39
   LOCATION L0013449     VOLUME   439987.388 3762340.142 213.51
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Building 13 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1239096
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440018.003, 3762237.583, 212.71, 3.11, 6.98
** 440088.262, 3762238.164, 212.91, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0013450     VOLUME   440025.503 3762237.645 212.81
   LOCATION L0013451     VOLUME   440040.502 3762237.769 212.89
   LOCATION L0013452     VOLUME   440055.502 3762237.893 212.91
   LOCATION L0013453     VOLUME   440070.501 3762238.017 212.92
   LOCATION L0013454     VOLUME   440085.501 3762238.141 212.91
** End of LINE VOLUME Source ID = SLINE38
** Source Parameters **
** LINE VOLUME Source ID = SLINE26
   SRCPARAM L0012004     0.0146379      3.11      6.98      2.89
   SRCPARAM L0012005     0.0146379      3.11      6.98      2.89
   SRCPARAM L0012006     0.0146379      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0013410     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013411     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013412     0.0161864      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0013413     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013414     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013415     0.0128374667      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0013416     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013417     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013418     0.0183218667      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
   SRCPARAM L0013419     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013420     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013421     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013422     0.02302375      3.11      6.98      2.89
```

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** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0013423     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013424     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013425     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013426     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013427     0.03218388      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0013428     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013429     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013430     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013431     0.02344235      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0013432     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013433     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013434     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013435     0.024279575      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0013436     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013437     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013438     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013439     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013440     0.0217679      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0013441     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013442     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013443     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013444     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013445     0.01675994      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0013446     0.01423285      0.52      6.98      0.48
   SRCPARAM L0013447     0.01423285      0.52      6.98      0.48
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0013448     0.01256615      3.11      6.98      2.89
   SRCPARAM L0013449     0.01256615      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0013450     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013451     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013452     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013453     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013454     0.02478192      3.11      6.98      2.89
** ------------------------------------------------------------------
   URBANSRC ALL
   SRCGROUP P1ONIDLE L0012004 L0012005 L0012006 L0013410 L0013411 L0013412
```

```
   SRCGROUP P1ONIDLE L0013413 L0013414 L0013415 L0013416 L0013417 L0013418
   SRCGROUP P1ONIDLE L0013419 L0013420 L0013421 L0013422 L0013423 L0013424
   SRCGROUP P1ONIDLE L0013425 L0013426 L0013427 L0013428 L0013429 L0013430
   SRCGROUP P1ONIDLE L0013431 L0013432 L0013433 L0013434 L0013435 L0013436
   SRCGROUP P1ONIDLE L0013437 L0013438 L0013439 L0013440 L0013441 L0013442
   SRCGROUP P1ONIDLE L0013443 L0013444 L0013445 L0013446 L0013447 L0013448
   SRCGROUP P1ONIDLE L0013449 L0013450 L0013451 L0013452 L0013453 L0013454
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_Phase1Ops_Mit_IDLEONLY.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_PHASE1OPS_MIT_IDLEONLY.AD\01H1GALL.PLT 31
   PLOTFILE 1 P1ONIDLE 1ST ONTARIOEUCLID_PHASE1OPS_MIT_IDLEONLY.AD\01H1G001.PLT 32
   PLOTFILE PERIOD ALL ONTARIOEUCLID_PHASE1OPS_MIT_IDLEONLY.AD\PE00GALL.PLT 33
   PLOTFILE PERIOD P1ONIDLE ONTARIOEUCLID_PHASE1OPS_MIT_IDLEONLY.AD\PE00G000.PLT 34
   SUMMFILE OntarioEuclid_Phase1Ops_Mit_IDLEONLY.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
```

```
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/3/2023
** File:
C:\Lakes\OntarioEuclid_Phase1Ops_Mit_IDLEONLY\OntarioEuclid_Phase1Ops_Mit_IDLEONLY.A
DI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid_Phase 1 Operations_Mitigated IDLE Group
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_Phase1Ops_Mit_IDLEONLY.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Building 1 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0439137
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439979.680, 3762795.008, 219.39, 3.11, 6.98
** 440019.164, 3762795.008, 219.45, 3.11, 6.98
```

```
** ----------------------------------------------------------------------
   LOCATION L0012004     VOLUME   439987.180 3762795.008 219.43
   LOCATION L0012005     VOLUME   440002.180 3762795.008 219.45
   LOCATION L0012006     VOLUME   440017.180 3762795.008 219.47
** End of LINE VOLUME Source ID = SLINE26
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Building 2 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0485592
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439977.938, 3762735.201, 218.71, 3.11, 6.98
** 440018.584, 3762735.201, 218.82, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013410     VOLUME   439985.438 3762735.201 218.79
   LOCATION L0013411     VOLUME   440000.438 3762735.201 218.84
   LOCATION L0013412     VOLUME   440015.438 3762735.201 218.88
** End of LINE VOLUME Source ID = SLINE27
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Building 3 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0385124
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439995.358, 3762633.007, 217.26, 3.11, 6.98
** 439995.938, 3762581.909, 216.46, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013413     VOLUME   439995.443 3762625.507 217.14
   LOCATION L0013414     VOLUME   439995.613 3762610.508 216.95
   LOCATION L0013415     VOLUME   439995.784 3762595.509 216.73
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Building 4 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0549656
** Vertical Dimension = 6.22
** SZINIT = 2.89
```

```
** Nodes = 2
** 440075.488, 3762801.976, 219.54, 3.11, 6.98
** 440117.294, 3762801.976, 219.49, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013416     VOLUME   440082.988 3762801.976 219.48
   LOCATION L0013417     VOLUME   440097.988 3762801.976 219.47
   LOCATION L0013418     VOLUME   440112.988 3762801.976 219.49
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Building 5 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.092095
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440078.391, 3762717.201, 218.56, 3.11, 6.98
** 440078.391, 3762659.136, 217.97, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013419     VOLUME   440078.391 3762709.701 218.57
   LOCATION L0013420     VOLUME   440078.391 3762694.701 218.38
   LOCATION L0013421     VOLUME   440078.391 3762679.701 218.18
   LOCATION L0013422     VOLUME   440078.391 3762664.701 218.00
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC Building 6 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1609194
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440237.489, 3762788.041, 219.93, 3.11, 6.98
** 440238.651, 3762709.653, 219.12, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013423     VOLUME   440237.600 3762780.541 219.88
   LOCATION L0013424     VOLUME   440237.823 3762765.543 219.78
   LOCATION L0013425     VOLUME   440238.045 3762750.545 219.62
   LOCATION L0013426     VOLUME   440238.267 3762735.546 219.44
   LOCATION L0013427     VOLUME   440238.489 3762720.548 219.27
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Building 7 Idle
```

```
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0937694
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440296.716, 3762795.008, 219.86, 3.11, 6.98
** 440296.716, 3762742.169, 218.72, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013428     VOLUME   440296.716 3762787.508 219.78
   LOCATION L0013429     VOLUME   440296.716 3762772.508 219.34
   LOCATION L0013430     VOLUME   440296.716 3762757.508 218.93
   LOCATION L0013431     VOLUME   440296.716 3762742.508 218.70
** End of LINE VOLUME Source ID = SLINE32
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Building 8 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0971183
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440246.780, 3762543.586, 214.83, 3.11, 6.98
** 440301.942, 3762543.586, 214.44, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013432     VOLUME   440254.280 3762543.586 214.62
   LOCATION L0013433     VOLUME   440269.280 3762543.586 214.34
   LOCATION L0013434     VOLUME   440284.280 3762543.586 214.39
   LOCATION L0013435     VOLUME   440299.280 3762543.586 214.40
** End of LINE VOLUME Source ID = SLINE33
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Building 9  Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1088395
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440053.423, 3762439.650, 215.38, 3.11, 6.98
** 440121.359, 3762440.230, 215.09, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013436     VOLUME   440060.923 3762439.714 215.39
   LOCATION L0013437     VOLUME   440075.922 3762439.842 215.27
   LOCATION L0013438     VOLUME   440090.921 3762439.970 215.16
```

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   LOCATION L0013439     VOLUME   440105.921 3762440.098 215.11
   LOCATION L0013440     VOLUME   440120.920 3762440.227 215.12
** End of LINE VOLUME Source ID = SLINE34
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Building 10 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0837997
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440051.681, 3762374.617, 214.11, 3.11, 6.98
** 440121.940, 3762375.778, 214.33, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0013441     VOLUME   440059.180 3762374.741 214.42
   LOCATION L0013442     VOLUME   440074.178 3762374.989 214.38
   LOCATION L0013443     VOLUME   440089.176 3762375.237 214.35
   LOCATION L0013444     VOLUME   440104.174 3762375.484 214.32
   LOCATION L0013445     VOLUME   440119.172 3762375.732 214.26
** End of LINE VOLUME Source ID = SLINE35
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC Building 11 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0284657
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 2
** 439969.228, 3762487.263, 214.84, 0.52, 6.98
** 439995.938, 3762463.456, 214.83, 0.52, 6.98
** ----------------------------------------------------------------
   LOCATION L0013446     VOLUME   439974.827 3762482.273 214.89
   LOCATION L0013447     VOLUME   439986.025 3762472.292 214.87
** End of LINE VOLUME Source ID = SLINE36
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Building 12 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0251323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
```

```
** 439972.712, 3762357.197, 213.29, 3.11, 6.98
** 439994.196, 3762332.229, 213.46, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013448     VOLUME   439977.604 3762351.512 213.39
   LOCATION L0013449     VOLUME   439987.388 3762340.142 213.51
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Building 13 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1239096
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440018.003, 3762237.583, 212.71, 3.11, 6.98
** 440088.262, 3762238.164, 212.91, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013450     VOLUME   440025.503 3762237.645 212.81
   LOCATION L0013451     VOLUME   440040.502 3762237.769 212.89
   LOCATION L0013452     VOLUME   440055.502 3762237.893 212.91
   LOCATION L0013453     VOLUME   440070.501 3762238.017 212.92
   LOCATION L0013454     VOLUME   440085.501 3762238.141 212.91
** End of LINE VOLUME Source ID = SLINE38
** Source Parameters **
** LINE VOLUME Source ID = SLINE26
   SRCPARAM L0012004     0.0146379      3.11      6.98      2.89
   SRCPARAM L0012005     0.0146379      3.11      6.98      2.89
   SRCPARAM L0012006     0.0146379      3.11      6.98      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0013410     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013411     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013412     0.0161864      3.11      6.98      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0013413     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013414     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013415     0.0128374667      3.11      6.98      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0013416     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013417     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013418     0.0183218667      3.11      6.98      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
   SRCPARAM L0013419     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013420     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013421     0.02302375      3.11      6.98      2.89
```

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   SRCPARAM L0013422     0.02302375      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0013423     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013424     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013425     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013426     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013427     0.03218388      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0013428     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013429     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013430     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013431     0.02344235      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0013432     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013433     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013434     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013435     0.024279575      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0013436     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013437     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013438     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013439     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013440     0.0217679      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0013441     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013442     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013443     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013444     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013445     0.01675994      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0013446     0.01423285      0.52      6.98      0.48
   SRCPARAM L0013447     0.01423285      0.52      6.98      0.48
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0013448     0.01256615      3.11      6.98      2.89
   SRCPARAM L0013449     0.01256615      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0013450     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013451     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013452     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013453     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013454     0.02478192      3.11      6.98      2.89
** ------------------------------------------------------------------
   URBANSRC ALL
```

```
   SRCGROUP P1ONIDLE L0012004 L0012005 L0012006 L0013410 L0013411 L0013412
   SRCGROUP P1ONIDLE L0013413 L0013414 L0013415 L0013416 L0013417 L0013418
   SRCGROUP P1ONIDLE L0013419 L0013420 L0013421 L0013422 L0013423 L0013424
   SRCGROUP P1ONIDLE L0013425 L0013426 L0013427 L0013428 L0013429 L0013430
   SRCGROUP P1ONIDLE L0013431 L0013432 L0013433 L0013434 L0013435 L0013436
   SRCGROUP P1ONIDLE L0013437 L0013438 L0013439 L0013440 L0013441 L0013442
   SRCGROUP P1ONIDLE L0013443 L0013444 L0013445 L0013446 L0013447 L0013448
   SRCGROUP P1ONIDLE L0013449 L0013450 L0013451 L0013452 L0013453 L0013454
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_Phase1Ops_Mit_IDLEONLY.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_PHASE1OPS_MIT_IDLEONLY.AD\01H1GALL.PLT 31
   PLOTFILE 1 P1ONIDLE 1ST ONTARIOEUCLID_PHASE1OPS_MIT_IDLEONLY.AD\01H1G001.PLT 32
   PLOTFILE PERIOD ALL ONTARIOEUCLID_PHASE1OPS_MIT_IDLEONLY.AD\PE00GALL.PLT 33
   PLOTFILE PERIOD P1ONIDLE ONTARIOEUCLID_PHASE1OPS_MIT_IDLEONLY.AD\PE00G000.PLT 34
   SUMMFILE OntarioEuclid_Phase1Ops_Mit_IDLEONLY.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***
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```
 --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     386       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     386       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group                ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                           ***        21:10:54

                                    PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for    48 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
```

```
         4. Use Missing Data Processing Routine.
         5. No Exponential Decay.
         6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
         ADJ_U*   - Use ADJ_U* option for SBL in AERMET
         CCVR_Sub - Meteorological data includes CCVR substitutions
         TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
     and Calculates PERIOD Averages

 **This Run Includes:     48 Source(s);       2 Source Group(s); and     528
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:     48 VOLUME source(s)
                 and:      0 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   198.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                                ;
Emission Rate Unit Factor =   0.10000E+07
```

Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 3.6 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: OntarioEuclid_Phase1Ops_Mit_IDLEONLY.err

**File for Summary of Results: OntarioEuclid_Phase1Ops_Mit_IDLEONLY.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE VARY BY
L0012004	0	0.14638E-01	439987.2	3762795.0	219.4	3.11	6.98	2.89	YES	
L0012005	0	0.14638E-01	440002.2	3762795.0	219.5	3.11	6.98	2.89	YES	
L0012006	0	0.14638E-01	440017.2	3762795.0	219.5	3.11	6.98	2.89	YES	
L0013410	0	0.16186E-01	439985.4	3762735.2	218.8	3.11	6.98	2.89	YES	
L0013411	0	0.16186E-01	440000.4	3762735.2	218.8	3.11	6.98	2.89	YES	
L0013412	0	0.16186E-01	440015.4	3762735.2	218.9	3.11	6.98	2.89	YES	
L0013413	0	0.12837E-01	439995.4	3762625.5	217.1	3.11	6.98	2.89	YES	
L0013414	0	0.12837E-01	439995.6	3762610.5	217.0	3.11	6.98	2.89	YES	
L0013415	0	0.12837E-01	439995.8	3762595.5	216.7	3.11	6.98	2.89	YES	

L0013416	0	0.18322E-01	440083.0	3762802.0	219.5	3.11	6.98	2.89 YES
L0013417	0	0.18322E-01	440098.0	3762802.0	219.5	3.11	6.98	2.89 YES
L0013418	0	0.18322E-01	440113.0	3762802.0	219.5	3.11	6.98	2.89 YES
L0013419	0	0.23024E-01	440078.4	3762709.7	218.6	3.11	6.98	2.89 YES
L0013420	0	0.23024E-01	440078.4	3762694.7	218.4	3.11	6.98	2.89 YES
L0013421	0	0.23024E-01	440078.4	3762679.7	218.2	3.11	6.98	2.89 YES
L0013422	0	0.23024E-01	440078.4	3762664.7	218.0	3.11	6.98	2.89 YES
L0013423	0	0.32184E-01	440237.6	3762780.5	219.9	3.11	6.98	2.89 YES
L0013424	0	0.32184E-01	440237.8	3762765.5	219.8	3.11	6.98	2.89 YES
L0013425	0	0.32184E-01	440238.0	3762750.5	219.6	3.11	6.98	2.89 YES
L0013426	0	0.32184E-01	440238.3	3762735.5	219.4	3.11	6.98	2.89 YES
L0013427	0	0.32184E-01	440238.5	3762720.5	219.3	3.11	6.98	2.89 YES
L0013428	0	0.23442E-01	440296.7	3762787.5	219.8	3.11	6.98	2.89 YES
L0013429	0	0.23442E-01	440296.7	3762772.5	219.3	3.11	6.98	2.89 YES
L0013430	0	0.23442E-01	440296.7	3762757.5	218.9	3.11	6.98	2.89 YES
L0013431	0	0.23442E-01	440296.7	3762742.5	218.7	3.11	6.98	2.89 YES
L0013432	0	0.24280E-01	440254.3	3762543.6	214.6	3.11	6.98	2.89 YES
L0013433	0	0.24280E-01	440269.3	3762543.6	214.3	3.11	6.98	2.89 YES
L0013434	0	0.24280E-01	440284.3	3762543.6	214.4	3.11	6.98	2.89 YES
L0013435	0	0.24280E-01	440299.3	3762543.6	214.4	3.11	6.98	2.89 YES
L0013436	0	0.21768E-01	440060.9	3762439.7	215.4	3.11	6.98	2.89 YES
L0013437	0	0.21768E-01	440075.9	3762439.8	215.3	3.11	6.98	2.89 YES
L0013438	0	0.21768E-01	440090.9	3762440.0	215.2	3.11	6.98	2.89 YES
L0013439	0	0.21768E-01	440105.9	3762440.1	215.1	3.11	6.98	2.89 YES
L0013440	0	0.21768E-01	440120.9	3762440.2	215.1	3.11	6.98	2.89 YES
L0013441	0	0.16760E-01	440059.2	3762374.7	214.4	3.11	6.98	

2.89   YES
 L0013442   0   0.16760E-01 440074.2 3762375.0   214.4   3.11   6.98
2.89   YES
 L0013443   0   0.16760E-01 440089.2 3762375.2   214.4   3.11   6.98
2.89   YES
 L0013444   0   0.16760E-01 440104.2 3762375.5   214.3   3.11   6.98
2.89   YES
 L0013445   0   0.16760E-01 440119.2 3762375.7   214.3   3.11   6.98
2.89   YES
 L0013446   0   0.14233E-01 439974.8 3762482.3   214.9   0.52   6.98
0.48   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - -

 L0013447   0   0.14233E-01 439986.0 3762472.3   214.9   0.52   6.98
0.48   YES
 L0013448   0   0.12566E-01 439977.6 3762351.5   213.4   3.11   6.98
2.89   YES
 L0013449   0   0.12566E-01 439987.4 3762340.1   213.5   3.11   6.98
2.89   YES
 L0013450   0   0.24782E-01 440025.5 3762237.6   212.8   3.11   6.98
2.89   YES
 L0013451   0   0.24782E-01 440040.5 3762237.8   212.9   3.11   6.98
2.89   YES
 L0013452   0   0.24782E-01 440055.5 3762237.9   212.9   3.11   6.98
2.89   YES
 L0013453   0   0.24782E-01 440070.5 3762238.0   212.9   3.11   6.98
2.89   YES
 L0013454   0   0.24782E-01 440085.5 3762238.1   212.9   3.11   6.98
2.89   YES

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
P1ONIDLE	L0012004 , L0012005 , L0012006 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , L0013435 , L0013436 , L0013437 , L0013438 , L0013439 , L0013440 , L0013441 , L0013442 , L0013443 , L0013444 , L0013445 , L0013446 , L0013447 , L0013448 , L0013449 , L0013450 , L0013451 , L0013452 , L0013453 , L0013454 ,
ALL	L0012004 , L0012005 , L0012006 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , L0013435 , L0013436 , L0013437 , L0013438 , L0013439 , L0013440 , L0013441 , L0013442 , L0013443 , L0013444 , L0013445 , L0013446 , L0013447 , L0013448 , L0013449 , L0013450 , L0013451 , L0013452 , L0013453 , L0013454 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2035210.	L0012004 , L0012005 , L0012006 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 ,
		L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 ,
		L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 ,
		L0013431 , L0013432 , L0013433 , L0013434 , L0013435 , L0013436 , L0013437 , L0013438 ,
		L0013439 , L0013440 , L0013441 , L0013442 , L0013443 , L0013444 , L0013445 , L0013446 ,
		L0013447 , L0013448 , L0013449 , L0013450 , L0013451 , L0013452 , L0013453 , L0013454 ,

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(440407.9, 3761497.8, 205.4, 205.4, 0.0); (439943.4, 3761716.3, 206.8, 206.8, 0.0);
(439170.2, 3763092.5, 220.1, 220.1, 0.0); (439220.2, 3763092.5, 220.7, 220.7, 0.0);
(439270.2, 3763092.5, 220.6, 220.6, 0.0); (439320.2, 3763092.5, 220.9, 220.9, 0.0);
(439370.2, 3763092.5, 221.0, 221.0, 0.0); (439420.2, 3763092.5, 220.7, 220.7, 0.0);
(439470.2, 3763092.5, 220.4, 220.4, 0.0); (439520.2, 3763092.5, 220.4, 220.4, 0.0);

```
     ( 439570.2, 3763092.5,     220.4,     220.4,       0.0);         ( 439620.2,
3763092.5,     220.9,     220.9,       0.0);
     ( 439670.2, 3763092.5,     221.6,     221.6,       0.0);         ( 439720.2,
3763092.5,     221.9,     221.9,       0.0);
     ( 439770.2, 3763092.5,     222.1,     222.1,       0.0);         ( 439820.2,
3763092.5,     222.3,     222.3,       0.0);
     ( 439870.2, 3763092.5,     222.6,     222.6,       0.0);         ( 439170.2,
3763142.5,     220.8,     220.8,       0.0);
     ( 439220.2, 3763142.5,     221.2,     221.2,       0.0);         ( 439270.2,
3763142.5,     221.0,     221.0,       0.0);
     ( 439320.2, 3763142.5,     221.3,     221.3,       0.0);         ( 439370.2,
3763142.5,     221.3,     221.3,       0.0);
     ( 439420.2, 3763142.5,     221.0,     221.0,       0.0);         ( 439470.2,
3763142.5,     221.3,     221.3,       0.0);
     ( 439520.2, 3763142.5,     221.5,     221.5,       0.0);         ( 439570.2,
3763142.5,     221.2,     221.2,       0.0);
     ( 439620.2, 3763142.5,     221.3,     221.3,       0.0);         ( 439670.2,
3763142.5,     222.0,     222.0,       0.0);
     ( 439720.2, 3763142.5,     222.3,     222.3,       0.0);         ( 439770.2,
3763142.5,     222.6,     222.6,       0.0);
     ( 439820.2, 3763142.5,     222.9,     222.9,       0.0);         ( 439870.2,
3763142.5,     223.2,     223.2,       0.0);
     ( 439170.2, 3763192.5,     221.4,     221.4,       0.0);         ( 439220.2,
3763192.5,     221.6,     221.6,       0.0);
     ( 439270.2, 3763192.5,     221.3,     221.3,       0.0);         ( 439320.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439370.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439420.2,
3763192.5,     221.3,     221.3,       0.0);
     ( 439470.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439520.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439570.2, 3763192.5,     221.8,     221.8,       0.0);         ( 439620.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439670.2, 3763192.5,     222.5,     222.5,       0.0);         ( 439720.2,
3763192.5,     223.2,     223.2,       0.0);
     ( 439770.2, 3763192.5,     223.5,     223.5,       0.0);         ( 439820.2,
3763192.5,     223.7,     223.7,       0.0);
     ( 439870.2, 3763192.5,     223.9,     223.9,       0.0);         ( 439170.2,
3763242.5,     222.1,     222.1,       0.0);
     ( 439220.2, 3763242.5,     222.1,     222.1,       0.0);         ( 439270.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439320.2, 3763242.5,     222.0,     222.0,       0.0);         ( 439370.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439420.2, 3763242.5,     221.9,     221.9,       0.0);         ( 439470.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439520.2, 3763242.5,     222.3,     222.3,       0.0);         ( 439570.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439620.2, 3763242.5,     222.2,     222.2,       0.0);         ( 439670.2,
3763242.5,     222.8,     222.8,       0.0);
     ( 439720.2, 3763242.5,     223.5,     223.5,       0.0);         ( 439770.2,
3763242.5,     224.0,     224.0,       0.0);
     ( 439820.2, 3763242.5,     224.3,     224.3,       0.0);         ( 439870.2,
```

3763242.5,   224.5,   224.5,   0.0);
     (439170.2, 3763292.5,   222.9,   222.9,   0.0);   (439220.2,
3763292.5,   223.4,   223.4,   0.0);
     (439270.2, 3763292.5,   223.3,   223.3,   0.0);   (439320.2,
3763292.5,   223.0,   223.0,   0.0);
     (439370.2, 3763292.5,   222.5,   222.5,   0.0);   (439420.2,
3763292.5,   222.9,   222.9,   0.0);
     (439470.2, 3763292.5,   223.2,   223.2,   0.0);   (439520.2,
3763292.5,   223.5,   223.5,   0.0);
     (439570.2, 3763292.5,   223.0,   223.0,   0.0);   (439620.2,
3763292.5,   223.1,   223.1,   0.0);
     (439670.2, 3763292.5,   223.3,   223.3,   0.0);   (439720.2,
3763292.5,   224.0,   224.0,   0.0);
     (439770.2, 3763292.5,   224.8,   224.8,   0.0);   (439820.2,
3763292.5,   225.1,   225.1,   0.0);
     (439870.2, 3763292.5,   225.1,   225.1,   0.0);   (439170.2,
3763342.5,   223.6,   223.6,   0.0);
     (439220.2, 3763342.5,   224.0,   224.0,   0.0);   (439270.2,
3763342.5,   223.5,   223.5,   0.0);
     (439320.2, 3763342.5,   223.4,   223.4,   0.0);   (439370.2,
3763342.5,   223.0,   223.0,   0.0);
     (439420.2, 3763342.5,   223.3,   223.3,   0.0);   (439470.2,
3763342.5,   223.6,   223.6,   0.0);
     (439520.2, 3763342.5,   223.9,   223.9,   0.0);   (439570.2,
3763342.5,   223.7,   223.7,   0.0);
     (439620.2, 3763342.5,   223.5,   223.5,   0.0);   (439670.2,
3763342.5,   223.9,   223.9,   0.0);
     (439720.2, 3763342.5,   224.4,   224.4,   0.0);   (439770.2,
3763342.5,   225.3,   225.3,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (439820.2, 3763342.5,   225.6,   225.6,   0.0);   (439870.2,
3763342.5,   225.8,   225.8,   0.0);
     (439170.2, 3763392.5,   224.3,   224.3,   0.0);   (439220.2,
3763392.5,   224.5,   224.5,   0.0);
     (439270.2, 3763392.5,   223.9,   223.9,   0.0);   (439320.2,
3763392.5,   224.3,   224.3,   0.0);
     (439370.2, 3763392.5,   224.0,   224.0,   0.0);   (439420.2,
3763392.5,   224.4,   224.4,   0.0);
     (439470.2, 3763392.5,   224.7,   224.7,   0.0);   (439520.2,
3763392.5,   224.3,   224.3,   0.0);

```
     ( 439570.2, 3763392.5,     224.2,     224.2,       0.0);         ( 439620.2,
3763392.5,     224.0,     224.0,       0.0);
     ( 439670.2, 3763392.5,     224.5,     224.5,       0.0);         ( 439720.2,
3763392.5,     224.8,     224.8,       0.0);
     ( 439770.2, 3763392.5,     225.6,     225.6,       0.0);         ( 439820.2,
3763392.5,     226.0,     226.0,       0.0);
     ( 439870.2, 3763392.5,     226.3,     226.3,       0.0);         ( 439170.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439220.2, 3763442.5,     225.1,     225.1,       0.0);         ( 439270.2,
3763442.5,     224.5,     224.5,       0.0);
     ( 439320.2, 3763442.5,     224.5,     224.5,       0.0);         ( 439370.2,
3763442.5,     224.6,     224.6,       0.0);
     ( 439420.2, 3763442.5,     224.7,     224.7,       0.0);         ( 439470.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439520.2, 3763442.5,     224.7,     224.7,       0.0);         ( 439570.2,
3763442.5,     224.7,     224.7,       0.0);
     ( 439620.2, 3763442.5,     224.6,     224.6,       0.0);         ( 439670.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439720.2, 3763442.5,     225.4,     225.4,       0.0);         ( 439770.2,
3763442.5,     226.1,     226.1,       0.0);
     ( 439820.2, 3763442.5,     226.5,     226.5,       0.0);         ( 439870.2,
3763442.5,     226.7,     226.7,       0.0);
     ( 439203.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439253.2,
3762911.2,     218.6,     218.6,       0.0);
     ( 439303.2, 3762911.2,     218.7,     218.7,       0.0);         ( 439353.2,
3762911.2,     217.9,     217.9,       0.0);
     ( 439403.2, 3762911.2,     218.0,     218.0,       0.0);         ( 439453.2,
3762911.2,     218.3,     218.3,       0.0);
     ( 439503.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439553.2,
3762911.2,     218.5,     218.5,       0.0);
     ( 439203.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439253.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439303.2, 3762961.2,     219.2,     219.2,       0.0);         ( 439353.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439403.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439453.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439503.2, 3762961.2,     218.7,     218.7,       0.0);         ( 439553.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439203.2, 3763011.2,     219.6,     219.6,       0.0);         ( 439253.2,
3763011.2,     219.7,     219.7,       0.0);
     ( 439303.2, 3763011.2,     219.9,     219.9,       0.0);         ( 439353.2,
3763011.2,     220.0,     220.0,       0.0);
     ( 439403.2, 3763011.2,     219.2,     219.2,       0.0);         ( 439453.2,
3763011.2,     219.4,     219.4,       0.0);
     ( 439503.2, 3763011.2,     219.1,     219.1,       0.0);         ( 439553.2,
3763011.2,     219.5,     219.5,       0.0);
     ( 439203.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439253.2,
3763061.2,     220.5,     220.5,       0.0);
     ( 439303.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439353.2,
3763061.2,     220.8,     220.8,       0.0);
     ( 439403.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439453.2,
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3763061.2,   220.4,   220.4,   0.0);
     (439503.2, 3763061.2,   220.1,   220.1,   0.0);   (439553.2,
3763061.2,   220.3,   220.3,   0.0);
     (439196.0, 3762392.5,   212.6,   212.6,   0.0);   (439246.0,
3762392.5,   212.7,   212.7,   0.0);
     (439296.0, 3762392.5,   212.7,   212.7,   0.0);   (439346.0,
3762392.5,   212.6,   212.6,   0.0);
     (439396.0, 3762392.5,   212.5,   212.5,   0.0);   (439446.0,
3762392.5,   212.2,   212.2,   0.0);
     (439496.0, 3762392.5,   212.2,   212.2,   0.0);   (439546.0,
3762392.5,   212.5,   212.5,   0.0);
     (439196.0, 3762442.5,   213.1,   213.1,   0.0);   (439246.0,
3762442.5,   213.1,   213.1,   0.0);
     (439296.0, 3762442.5,   213.5,   213.5,   0.0);   (439346.0,
3762442.5,   213.5,   213.5,   0.0);
     (439396.0, 3762442.5,   213.5,   213.5,   0.0);   (439446.0,
3762442.5,   213.5,   213.5,   0.0);
     (439496.0, 3762442.5,   213.5,   213.5,   0.0);   (439546.0,
3762442.5,   213.4,   213.4,   0.0);
     (439196.0, 3762492.5,   213.6,   213.6,   0.0);   (439246.0,
3762492.5,   213.5,   213.5,   0.0);
     (439296.0, 3762492.5,   213.7,   213.7,   0.0);   (439346.0,
3762492.5,   214.0,   214.0,   0.0);
     (439396.0, 3762492.5,   213.9,   213.9,   0.0);   (439446.0,
3762492.5,   213.9,   213.9,   0.0);
     (439496.0, 3762492.5,   214.2,   214.2,   0.0);   (439546.0,
3762492.5,   214.4,   214.4,   0.0);
     (439196.0, 3762542.5,   214.1,   214.1,   0.0);   (439246.0,
3762542.5,   213.8,   213.8,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (439296.0, 3762542.5,   214.0,   214.0,   0.0);   (439346.0,
3762542.5,   214.0,   214.0,   0.0);
     (439396.0, 3762542.5,   214.2,   214.2,   0.0);   (439446.0,
3762542.5,   214.2,   214.2,   0.0);
     (439496.0, 3762542.5,   214.7,   214.7,   0.0);   (439546.0,
3762542.5,   214.7,   214.7,   0.0);
     (439196.0, 3762592.5,   214.6,   214.6,   0.0);   (439246.0,
3762592.5,   214.8,   214.8,   0.0);
     (439296.0, 3762592.5,   214.7,   214.7,   0.0);   (439346.0,
3762592.5,   214.4,   214.4,   0.0);

```
     ( 439396.0, 3762592.5,     214.4,     214.4,       0.0);         ( 439446.0,
3762592.5,     214.5,     214.5,       0.0);
     ( 439496.0, 3762592.5,     215.1,     215.1,       0.0);         ( 439546.0,
3762592.5,     215.2,     215.2,       0.0);
     ( 439196.0, 3762642.5,     215.1,     215.1,       0.0);         ( 439246.0,
3762642.5,     215.4,     215.4,       0.0);
     ( 439296.0, 3762642.5,     214.9,     214.9,       0.0);         ( 439346.0,
3762642.5,     214.4,     214.4,       0.0);
     ( 439396.0, 3762642.5,     214.6,     214.6,       0.0);         ( 439446.0,
3762642.5,     214.8,     214.8,       0.0);
     ( 439496.0, 3762642.5,     215.5,     215.5,       0.0);         ( 439546.0,
3762642.5,     215.6,     215.6,       0.0);
     ( 439196.0, 3762692.5,     215.8,     215.8,       0.0);         ( 439246.0,
3762692.5,     215.8,     215.8,       0.0);
     ( 439296.0, 3762692.5,     215.9,     215.9,       0.0);         ( 439346.0,
3762692.5,     215.7,     215.7,       0.0);
     ( 439396.0, 3762692.5,     215.1,     215.1,       0.0);         ( 439446.0,
3762692.5,     215.3,     215.3,       0.0);
     ( 439496.0, 3762692.5,     215.9,     215.9,       0.0);         ( 439546.0,
3762692.5,     216.1,     216.1,       0.0);
     ( 439196.0, 3762742.5,     216.5,     216.5,       0.0);         ( 439246.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439296.0, 3762742.5,     216.3,     216.3,       0.0);         ( 439346.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439396.0, 3762742.5,     216.0,     216.0,       0.0);         ( 439446.0,
3762742.5,     216.0,     216.0,       0.0);
     ( 439496.0, 3762742.5,     216.7,     216.7,       0.0);         ( 439546.0,
3762742.5,     216.8,     216.8,       0.0);
     ( 439196.0, 3762792.5,     217.1,     217.1,       0.0);         ( 439246.0,
3762792.5,     216.4,     216.4,       0.0);
     ( 439296.0, 3762792.5,     216.8,     216.8,       0.0);         ( 439346.0,
3762792.5,     216.8,     216.8,       0.0);
     ( 439396.0, 3762792.5,     216.9,     216.9,       0.0);         ( 439446.0,
3762792.5,     216.7,     216.7,       0.0);
     ( 439496.0, 3762792.5,     217.3,     217.3,       0.0);         ( 439546.0,
3762792.5,     217.4,     217.4,       0.0);
     ( 439196.0, 3762842.5,     217.7,     217.7,       0.0);         ( 439246.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439296.0, 3762842.5,     217.0,     217.0,       0.0);         ( 439346.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439396.0, 3762842.5,     217.2,     217.2,       0.0);         ( 439446.0,
3762842.5,     217.3,     217.3,       0.0);
     ( 439496.0, 3762842.5,     217.9,     217.9,       0.0);         ( 439546.0,
3762842.5,     218.0,     218.0,       0.0);
     ( 439573.3, 3762470.5,     213.7,     213.7,       0.0);         ( 439623.3,
3762470.5,     214.1,     214.1,       0.0);
     ( 439673.3, 3762470.5,     214.2,     214.2,       0.0);         ( 439723.3,
3762470.5,     214.3,     214.3,       0.0);
     ( 439773.3, 3762470.5,     214.4,     214.4,       0.0);         ( 439823.3,
3762470.5,     214.4,     214.4,       0.0);
     ( 439873.3, 3762470.5,     214.7,     214.7,       0.0);         ( 439573.3,
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3762520.5,   214.3,   214.3,   0.0);
     (439623.3, 3762520.5,   214.5,   214.5,   0.0);   (439673.3,
3762520.5,   214.8,   214.8,   0.0);
     (439723.3, 3762520.5,   215.1,   215.1,   0.0);   (439773.3,
3762520.5,   215.1,   215.1,   0.0);
     (439823.3, 3762520.5,   214.8,   214.8,   0.0);   (439873.3,
3762520.5,   215.2,   215.2,   0.0);
     (439573.3, 3762570.5,   214.8,   214.8,   0.0);   (439623.3,
3762570.5,   215.0,   215.0,   0.0);
     (439673.3, 3762570.5,   215.4,   215.4,   0.0);   (439723.3,
3762570.5,   215.5,   215.5,   0.0);
     (439773.3, 3762570.5,   215.5,   215.5,   0.0);   (439823.3,
3762570.5,   215.3,   215.3,   0.0);
     (439873.3, 3762570.5,   215.9,   215.9,   0.0);   (439573.3,
3762620.5,   215.3,   215.3,   0.0);
     (439623.3, 3762620.5,   215.6,   215.6,   0.0);   (439673.3,
3762620.5,   215.7,   215.7,   0.0);
     (439723.3, 3762620.5,   215.9,   215.9,   0.0);   (439773.3,
3762620.5,   215.8,   215.8,   0.0);
     (439823.3, 3762620.5,   215.9,   215.9,   0.0);   (439873.3,
3762620.5,   216.5,   216.5,   0.0);
     (439573.3, 3762670.5,   215.8,   215.8,   0.0);   (439623.3,
3762670.5,   216.5,   216.5,   0.0);
     (439673.3, 3762670.5,   216.5,   216.5,   0.0);   (439723.3,
3762670.5,   216.6,   216.6,   0.0);
     (439773.3, 3762670.5,   216.8,   216.8,   0.0);   (439823.3,
3762670.5,   216.9,   216.9,   0.0);
     (439873.3, 3762670.5,   217.1,   217.1,   0.0);   (439152.3,
3761448.9,   203.3,   203.3,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (439202.3, 3761448.9,   202.5,   202.5,   0.0);   (439252.3,
3761448.9,   202.5,   202.5,   0.0);
     (439302.3, 3761448.9,   202.4,   202.4,   0.0);   (439352.3,
3761448.9,   202.5,   202.5,   0.0);
     (439402.3, 3761448.9,   202.6,   202.6,   0.0);   (439452.3,
3761448.9,   202.6,   202.6,   0.0);
     (439502.3, 3761448.9,   203.1,   203.1,   0.0);   (439552.3,
3761448.9,   203.1,   203.1,   0.0);
     (439152.3, 3761498.9,   204.0,   204.0,   0.0);   (439202.3,
3761498.9,   203.9,   203.9,   0.0);

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     ( 439252.3, 3761498.9,     204.3,     204.3,       0.0);         ( 439302.3,
3761498.9,     203.6,     203.6,       0.0);
     ( 439352.3, 3761498.9,     203.2,     203.2,       0.0);         ( 439402.3,
3761498.9,     202.9,     202.9,       0.0);
     ( 439452.3, 3761498.9,     202.7,     202.7,       0.0);         ( 439502.3,
3761498.9,     203.3,     203.3,       0.0);
     ( 439552.3, 3761498.9,     203.5,     203.5,       0.0);         ( 439152.3,
3761548.9,     204.7,     204.7,       0.0);
     ( 439202.3, 3761548.9,     204.3,     204.3,       0.0);         ( 439252.3,
3761548.9,     204.4,     204.4,       0.0);
     ( 439302.3, 3761548.9,     203.7,     203.7,       0.0);         ( 439352.3,
3761548.9,     203.0,     203.0,       0.0);
     ( 439402.3, 3761548.9,     203.1,     203.1,       0.0);         ( 439452.3,
3761548.9,     203.0,     203.0,       0.0);
     ( 439502.3, 3761548.9,     203.2,     203.2,       0.0);         ( 439552.3,
3761548.9,     203.6,     203.6,       0.0);
     ( 439152.3, 3761598.9,     205.2,     205.2,       0.0);         ( 439202.3,
3761598.9,     204.5,     204.5,       0.0);
     ( 439252.3, 3761598.9,     204.5,     204.5,       0.0);         ( 439302.3,
3761598.9,     204.2,     204.2,       0.0);
     ( 439352.3, 3761598.9,     203.5,     203.5,       0.0);         ( 439402.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439452.3, 3761598.9,     203.8,     203.8,       0.0);         ( 439502.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439552.3, 3761598.9,     204.0,     204.0,       0.0);         ( 439152.3,
3761648.9,     205.5,     205.5,       0.0);
     ( 439202.3, 3761648.9,     205.1,     205.1,       0.0);         ( 439252.3,
3761648.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761648.9,     204.9,     204.9,       0.0);         ( 439352.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439402.3, 3761648.9,     204.5,     204.5,       0.0);         ( 439452.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439502.3, 3761648.9,     204.7,     204.7,       0.0);         ( 439552.3,
3761648.9,     204.9,     204.9,       0.0);
     ( 439152.3, 3761698.9,     206.0,     206.0,       0.0);         ( 439202.3,
3761698.9,     205.4,     205.4,       0.0);
     ( 439252.3, 3761698.9,     204.9,     204.9,       0.0);         ( 439302.3,
3761698.9,     205.0,     205.0,       0.0);
     ( 439352.3, 3761698.9,     205.2,     205.2,       0.0);         ( 439402.3,
3761698.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761698.9,     204.8,     204.8,       0.0);         ( 439502.3,
3761698.9,     205.3,     205.3,       0.0);
     ( 439552.3, 3761698.9,     205.7,     205.7,       0.0);         ( 439152.3,
3761748.9,     206.1,     206.1,       0.0);
     ( 439202.3, 3761748.9,     205.8,     205.8,       0.0);         ( 439252.3,
3761748.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761748.9,     205.2,     205.2,       0.0);         ( 439352.3,
3761748.9,     205.2,     205.2,       0.0);
     ( 439402.3, 3761748.9,     205.4,     205.4,       0.0);         ( 439452.3,
3761748.9,     205.1,     205.1,       0.0);
     ( 439502.3, 3761748.9,     204.8,     204.8,       0.0);         ( 439552.3,
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3761748.9,   205.5,   205.5,   0.0);
     (439152.3, 3761798.9,   206.4,   206.4,   0.0);   (439202.3,
3761798.9,   206.4,   206.4,   0.0);
     (439252.3, 3761798.9,   205.9,   205.9,   0.0);   (439302.3,
3761798.9,   206.2,   206.2,   0.0);
     (439352.3, 3761798.9,   205.6,   205.6,   0.0);   (439402.3,
3761798.9,   205.5,   205.5,   0.0);
     (439452.3, 3761798.9,   205.9,   205.9,   0.0);   (439502.3,
3761798.9,   205.2,   205.2,   0.0);
     (439552.3, 3761798.9,   205.9,   205.9,   0.0);   (439152.3,
3761848.9,   206.9,   206.9,   0.0);
     (439202.3, 3761848.9,   206.7,   206.7,   0.0);   (439252.3,
3761848.9,   206.1,   206.1,   0.0);
     (439302.3, 3761848.9,   206.2,   206.2,   0.0);   (439352.3,
3761848.9,   205.6,   205.6,   0.0);
     (439402.3, 3761848.9,   206.3,   206.3,   0.0);   (439452.3,
3761848.9,   206.3,   206.3,   0.0);
     (439502.3, 3761848.9,   205.5,   205.5,   0.0);   (439552.3,
3761848.9,   206.3,   206.3,   0.0);
     (439152.3, 3761898.9,   207.6,   207.6,   0.0);   (439202.3,
3761898.9,   207.2,   207.2,   0.0);
     (439252.3, 3761898.9,   206.5,   206.5,   0.0);   (439302.3,
3761898.9,   207.1,   207.1,   0.0);
     (439352.3, 3761898.9,   206.9,   206.9,   0.0);   (439402.3,
3761898.9,   206.7,   206.7,   0.0);
     (439452.3, 3761898.9,   207.4,   207.4,   0.0);   (439502.3,
3761898.9,   207.4,   207.4,   0.0);
     (439552.3, 3761898.9,   207.6,   207.6,   0.0);   (439152.3,
3761948.9,   208.1,   208.1,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439202.3, 3761948.9,   207.6,   207.6,   0.0);   (439252.3,
3761948.9,   206.9,   206.9,   0.0);
     (439302.3, 3761948.9,   207.6,   207.6,   0.0);   (439352.3,
3761948.9,   207.7,   207.7,   0.0);
     (439402.3, 3761948.9,   207.3,   207.3,   0.0);   (439452.3,
3761948.9,   208.1,   208.1,   0.0);
     (439502.3, 3761948.9,   208.5,   208.5,   0.0);   (439552.3,
3761948.9,   208.8,   208.8,   0.0);
     (439152.3, 3761998.9,   208.6,   208.6,   0.0);   (439202.3,
3761998.9,   207.9,   207.9,   0.0);

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     ( 439252.3, 3761998.9,     207.2,     207.2,       0.0);         ( 439302.3,
3761998.9,     208.0,     208.0,       0.0);
     ( 439352.3, 3761998.9,     208.5,     208.5,       0.0);         ( 439402.3,
3761998.9,     208.0,     208.0,       0.0);
     ( 439452.3, 3761998.9,     208.2,     208.2,       0.0);         ( 439502.3,
3761998.9,     208.5,     208.5,       0.0);
     ( 439552.3, 3761998.9,     208.9,     208.9,       0.0);         ( 439152.3,
3762048.9,     209.2,     209.2,       0.0);
     ( 439202.3, 3762048.9,     209.1,     209.1,       0.0);         ( 439252.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439302.3, 3762048.9,     209.0,     209.0,       0.0);         ( 439352.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439402.3, 3762048.9,     208.7,     208.7,       0.0);         ( 439452.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439502.3, 3762048.9,     209.2,     209.2,       0.0);         ( 439552.3,
3762048.9,     209.4,     209.4,       0.0);
     ( 439616.6, 3761420.6,     202.8,     202.8,       0.0);         ( 439666.6,
3761420.6,     203.2,     203.2,       0.0);
     ( 439716.6, 3761420.6,     203.4,     203.4,       0.0);         ( 439766.6,
3761420.6,     203.6,     203.6,       0.0);
     ( 439816.6, 3761420.6,     203.5,     203.5,       0.0);         ( 439866.6,
3761420.6,     203.8,     203.8,       0.0);
     ( 439616.6, 3761470.6,     203.2,     203.2,       0.0);         ( 439666.6,
3761470.6,     203.4,     203.4,       0.0);
     ( 439716.6, 3761470.6,     203.6,     203.6,       0.0);         ( 439766.6,
3761470.6,     203.8,     203.8,       0.0);
     ( 439816.6, 3761470.6,     203.7,     203.7,       0.0);         ( 439866.6,
3761470.6,     204.3,     204.3,       0.0);
     ( 439616.6, 3761520.6,     203.5,     203.5,       0.0);         ( 439666.6,
3761520.6,     203.7,     203.7,       0.0);
     ( 439716.6, 3761520.6,     204.0,     204.0,       0.0);         ( 439766.6,
3761520.6,     204.4,     204.4,       0.0);
     ( 439816.6, 3761520.6,     204.5,     204.5,       0.0);         ( 439866.6,
3761520.6,     204.9,     204.9,       0.0);
     ( 439616.6, 3761570.6,     204.1,     204.1,       0.0);         ( 439666.6,
3761570.6,     204.4,     204.4,       0.0);
     ( 439716.6, 3761570.6,     204.7,     204.7,       0.0);         ( 439766.6,
3761570.6,     205.2,     205.2,       0.0);
     ( 439816.6, 3761570.6,     205.4,     205.4,       0.0);         ( 439866.6,
3761570.6,     205.5,     205.5,       0.0);
     ( 440451.1, 3762893.8,     220.7,     220.7,       0.0);         ( 440501.1,
3762893.8,     220.6,     220.6,       0.0);
     ( 440551.1, 3762893.8,     220.3,     220.3,       0.0);         ( 440601.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440651.1, 3762893.8,     220.5,     220.5,       0.0);         ( 440701.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440751.1, 3762893.8,     220.2,     220.2,       0.0);         ( 440801.1,
3762893.8,     220.2,     220.2,       0.0);
     ( 440851.1, 3762893.8,     219.8,     219.8,       0.0);         ( 440451.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 440501.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440551.1,
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     (440601.1, 3762943.8,   221.3,   221.3,   0.0);   (440651.1,
3762943.8,   221.1,   221.1,   0.0);
     (440701.1, 3762943.8,   221.0,   221.0,   0.0);   (440751.1,
3762943.8,   220.5,   220.5,   0.0);
     (440801.1, 3762943.8,   220.8,   220.8,   0.0);   (440851.1,
3762943.8,   221.2,   221.2,   0.0);
     (441116.7, 3763135.3,   223.3,   223.3,   0.0);   (441166.7,
3763135.3,   222.9,   222.9,   0.0);
     (441116.7, 3763185.3,   223.9,   223.9,   0.0);   (441166.7,
3763185.3,   223.5,   223.5,   0.0);
     (441116.7, 3763235.3,   224.2,   224.2,   0.0);   (441166.7,
3763235.3,   223.9,   223.9,   0.0);
     (441116.7, 3763285.3,   225.2,   225.2,   0.0);   (441166.7,
3763285.3,   224.6,   224.6,   0.0);
     (441116.7, 3763335.3,   225.8,   225.8,   0.0);   (441166.7,
3763335.3,   225.4,   225.4,   0.0);
     (441116.7, 3763385.3,   226.3,   226.3,   0.0);   (441166.7,
3763385.3,   226.3,   226.3,   0.0);
     (441116.7, 3763435.3,   227.0,   227.0,   0.0);   (441166.7,
3763435.3,   226.8,   226.8,   0.0);
     (440433.4, 3762815.1,   219.6,   219.6,   0.0);   (440483.4,
3762815.1,   219.4,   219.4,   0.0);
     (440533.4, 3762815.1,   219.2,   219.2,   0.0);   (440583.4,
3762815.1,   219.4,   219.4,   0.0);
     (440633.4, 3762815.1,   219.3,   219.3,   0.0);   (440683.4,
3762815.1,   219.2,   219.2,   0.0);
     (440733.4, 3762815.1,   219.4,   219.4,   0.0);   (440783.4,
3762815.1,   219.2,   219.2,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (440833.4, 3762815.1,   219.4,   219.4,   0.0);   (440883.4,
3762815.1,   219.5,   219.5,   0.0);
     (440933.4, 3762815.1,   219.0,   219.0,   0.0);   (440983.4,
3762815.1,   218.8,   218.8,   0.0);
     (440433.4, 3762865.1,   220.3,   220.3,   0.0);   (440483.4,
3762865.1,   220.1,   220.1,   0.0);
     (440533.4, 3762865.1,   219.9,   219.9,   0.0);   (440583.4,
3762865.1,   219.9,   219.9,   0.0);
     (440633.4, 3762865.1,   220.0,   220.0,   0.0);   (440683.4,
3762865.1,   219.9,   219.9,   0.0);

```
     ( 440733.4, 3762865.1,     220.0,     220.0,       0.0);         ( 440783.4,
3762865.1,     219.9,     219.9,       0.0);
     ( 440833.4, 3762865.1,     219.6,     219.6,       0.0);         ( 440883.4,
3762865.1,     219.3,     219.3,       0.0);
     ( 440933.4, 3762865.1,     219.0,     219.0,       0.0);         ( 440983.4,
3762865.1,     218.9,     218.9,       0.0);
     ( 441118.3, 3762686.0,     217.2,     217.2,       0.0);         ( 441168.3,
3762686.0,     217.0,     217.0,       0.0);
     ( 441118.3, 3762736.0,     218.2,     218.2,       0.0);         ( 441168.3,
3762736.0,     217.5,     217.5,       0.0);
     ( 441118.3, 3762786.0,     218.3,     218.3,       0.0);         ( 441168.3,
3762786.0,     218.0,     218.0,       0.0);
     ( 441118.3, 3762836.0,     218.4,     218.4,       0.0);         ( 441168.3,
3762836.0,     218.3,     218.3,       0.0);
     ( 440411.7, 3762093.4,     211.8,     211.8,       0.0);         ( 440461.7,
3762093.4,     211.7,     211.7,       0.0);
     ( 440511.7, 3762093.4,     211.8,     211.8,       0.0);         ( 440561.7,
3762093.4,     211.8,     211.8,       0.0);
     ( 440611.7, 3762093.4,     211.6,     211.6,       0.0);         ( 440411.7,
3762143.4,     212.7,     212.7,       0.0);
     ( 440461.7, 3762143.4,     212.3,     212.3,       0.0);         ( 440511.7,
3762143.4,     212.5,     212.5,       0.0);
     ( 440561.7, 3762143.4,     212.2,     212.2,       0.0);         ( 440611.7,
3762143.4,     212.4,     212.4,       0.0);
     ( 440406.6, 3762008.9,     210.5,     210.5,       0.0);         ( 440456.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440506.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440556.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440606.6, 3762008.9,     210.7,     210.7,       0.0);         ( 440656.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440706.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440756.6,
3762008.9,     211.0,     211.0,       0.0);
     ( 440806.6, 3762008.9,     210.4,     210.4,       0.0);         ( 440856.6,
3762008.9,     210.6,     210.6,       0.0);
     ( 440906.6, 3762008.9,     211.3,     211.3,       0.0);         ( 440956.6,
3762008.9,     211.2,     211.2,       0.0);
     ( 441006.6, 3762008.9,     211.1,     211.1,       0.0);         ( 441056.6,
3762008.9,     210.5,     210.5,       0.0);
     ( 441106.6, 3762008.9,     210.4,     210.4,       0.0);         ( 441156.6,
3762008.9,     210.4,     210.4,       0.0);
     ( 440406.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440456.6,
3762058.9,     211.2,     211.2,       0.0);
     ( 440506.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440556.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 440606.6, 3762058.9,     211.2,     211.2,       0.0);         ( 440656.6,
3762058.9,     211.4,     211.4,       0.0);
     ( 440706.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440756.6,
3762058.9,     212.0,     212.0,       0.0);
     ( 440806.6, 3762058.9,     211.4,     211.4,       0.0);         ( 440856.6,
3762058.9,     211.5,     211.5,       0.0);
     ( 440906.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440956.6,
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                                (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

               NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.

                                  *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL
DATA ***

Surface file: KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74						

```
0.31    0.96  318.    7.9  287.5    2.0
 12 01 01   1 10   65.2  0.101  0.531  0.014   82.   77.     -1.4  0.09   0.74
0.24    0.63  244.    7.9  291.4    2.0
 12 01 01   1 11   95.5  0.162  0.778  0.008  176.  156.     -4.0  0.09   0.74
0.21    1.23   91.    7.9  296.4    2.0
 12 01 01   1 12  110.8  0.197  1.018  0.005  338.  209.     -6.1  0.09   0.74
0.20    1.60   90.    7.9  299.9    2.0
 12 01 01   1 13  110.5  0.229  1.184  0.005  534.  262.     -9.6  0.09   0.74
0.20    1.98   92.    7.9  302.0    2.0
 12 01 01   1 14   94.6  0.185  1.215  0.005  674.  191.     -5.9  0.09   0.74
0.21    1.50   73.    7.9  303.1    2.0
 12 01 01   1 15   68.6  0.187  1.184  0.005  858.  194.     -8.4  0.09   0.74
0.25    1.59   64.    7.9  303.1    2.0
 12 01 01   1 16   24.9  0.255  0.862  0.005  911.  308.    -58.8  0.09   0.74
0.34    2.61   92.    7.9  300.4    2.0
 12 01 01   1 17  -13.7  0.168 -9.000 -9.000 -999.  168.     31.1  0.09   0.74
0.62    1.98  107.    7.9  295.4    2.0
 12 01 01   1 18  -26.7  0.279 -9.000 -9.000 -999.  354.     85.6  0.09   0.74
1.00    3.22  134.    7.9  291.4    2.0
 12 01 01   1 19   -8.0  0.118 -9.000 -9.000 -999.  120.     18.2  0.09   0.74
1.00    1.43   37.    7.9  290.4    2.0
 12 01 01   1 20   -7.7  0.115 -9.000 -9.000 -999.   94.     17.6  0.09   0.74
1.00    1.40   49.    7.9  287.0    2.0
 12 01 01   1 21   -9.7  0.130 -9.000 -9.000 -999.  113.     20.2  0.09   0.74
1.00    1.57   26.    7.9  288.8    2.0
 12 01 01   1 22   -4.8  0.090 -9.000 -9.000 -999.   65.     13.6  0.09   0.74
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:10:54

                                  PAGE  14
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                  INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                L0013412    , L0013413    , L0013414    , L0013415    , L0013416
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, L0013417    , L0013418    , L0013419    ,
                L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
         440407.86    3761497.84        1.04666                       439943.36
3761716.33        1.71335
         439170.17    3763092.51        0.91556                       439220.17
3763092.51        0.96856
         439270.17    3763092.51        1.03972                       439320.17
3763092.51        1.11506
         439370.17    3763092.51        1.20129                       439420.17
3763092.51        1.30157
         439470.17    3763092.51        1.41981                       439520.17
3763092.51        1.54343
         439570.17    3763092.51        1.67664                       439620.17
3763092.51        1.82263
         439670.17    3763092.51        1.98270                       439720.17
3763092.51        2.16233
         439770.17    3763092.51        2.36355                       439820.17
3763092.51        2.57863
         439870.17    3763092.51        2.81055                       439170.17
3763142.51        0.86923
         439220.17    3763142.51        0.92391                       439270.17
3763142.51        0.98971
         439320.17    3763142.51        1.05650                       439370.17
3763142.51        1.13419
         439420.17    3763142.51        1.22394                       439470.17
3763142.51        1.31554
         439520.17    3763142.51        1.41775                       439570.17
3763142.51        1.53794
         439620.17    3763142.51        1.66432                       439670.17
3763142.51        1.78507
         439720.17    3763142.51        1.92436                       439770.17
3763142.51        2.07993
         439820.17    3763142.51        2.24178                       439870.17
3763142.51        2.39721
         439170.17    3763192.51        0.82969                       439220.17
3763192.51        0.88102
         439270.17    3763192.51        0.94090                       439320.17
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3763192.51        0.99739
         439370.17    3763192.51        1.06898                     439420.17
3763192.51        1.14868
         439470.17    3763192.51        1.22658                     439520.17
3763192.51        1.31251
         439570.17    3763192.51        1.40998                     439620.17
3763192.51        1.51623
         439670.17    3763192.51        1.60994                     439720.17
3763192.51        1.70948
         439770.17    3763192.51        1.80890                     439820.17
3763192.51        1.92089
         439870.17    3763192.51        2.01724                     439170.17
3763242.51        0.78791
         439220.17    3763242.51        0.83492                     439270.17
3763242.51        0.88984
         439320.17    3763242.51        0.94320                     439370.17
3763242.51        1.00604
         439420.17    3763242.51        1.07196                     439470.17
3763242.51        1.13406
         439520.17    3763242.51        1.20934                     439570.17
3763242.51        1.29112
         439620.17    3763242.51        1.37839                     439670.17
3763242.51        1.46190
         439720.17    3763242.51        1.52512                     439770.17
3763242.51        1.57322
         439820.17    3763242.51        1.64626                     439870.17
3763242.51        1.66220
         439170.17    3763292.51        0.74715                     439220.17
3763292.51        0.77770
         439270.17    3763292.51        0.82568                     439320.17
3763292.51        0.87983
         439370.17    3763292.51        0.94042                     439420.17
3763292.51        0.99258
         439470.17    3763292.51        1.04222                     439520.17
3763292.51        1.09839
         439570.17    3763292.51        1.18519                     439620.17
3763292.51        1.24983
         439670.17    3763292.51        1.31563                     439720.17
3763292.51        1.34247
         439770.17    3763292.51        1.32782                     439820.17
3763292.51        1.35822
         439870.17    3763292.51        1.41441                     439170.17
3763342.51        0.70045
         439220.17    3763342.51        0.72446                     439270.17
3763342.51        0.78103
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:10:54

                                  PAGE  15
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0012004 , L0012005 , L0012006 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.82755	439370.17	3763342.51	0.88332
439420.17	3763342.51	0.92302	439470.17	3763342.51	0.96293
439520.17	3763342.51	1.00307	439570.17	3763342.51	1.07108
439620.17	3763342.51	1.13639	439670.17	3763342.51	1.17306
439720.17	3763342.51	1.20225	439770.17	3763342.51	1.16182
439820.17	3763342.51	1.19823	439870.17	3763342.51	1.23732
439170.17	3763392.51	0.65212	439220.17	3763392.51	0.66922
439270.17	3763392.51	0.72740	439320.17	3763392.51	0.75806
439370.17	3763392.51	0.79972	439420.17	3763392.51	0.82871
439470.17	3763392.51	0.84012	439520.17	3763392.51	0.91751
439570.17	3763392.51	0.96899	439620.17	3763392.51	1.01891
439670.17	3763392.51	1.01748	439720.17	3763392.51	1.04823
439770.17	3763392.51	1.04654	439820.17	3763392.51	1.06953
439870.17	3763392.51	1.09515	439170.17	3763442.51	0.59229

```
         439220.17    3763442.51        0.61735                    439270.17
3763442.51        0.67195
         439320.17    3763442.51        0.69889                    439370.17
3763442.51        0.72083
         439420.17    3763442.51        0.75221                    439470.17
3763442.51        0.77011
         439520.17    3763442.51        0.82080                    439570.17
3763442.51        0.85482
         439620.17    3763442.51        0.89247                    439670.17
3763442.51        0.90445
         439720.17    3763442.51        0.92608                    439770.17
3763442.51        0.93992
         439820.17    3763442.51        0.95771                    439870.17
3763442.51        0.97914
         439203.20    3762911.16        1.12512                    439253.20
3762911.16        1.21539
         439303.20    3762911.16        1.32238                    439353.20
3762911.16        1.45504
         439403.20    3762911.16        1.59417                    439453.20
3762911.16        1.75902
         439503.20    3762911.16        1.95426                    439553.20
3762911.16        2.18057
         439203.20    3762961.16        1.08391                    439253.20
3762961.16        1.17143
         439303.20    3762961.16        1.26955                    439353.20
3762961.16        1.38348
         439403.20    3762961.16        1.51386                    439453.20
3762961.16        1.66216
         439503.20    3762961.16        1.83663                    439553.20
3762961.16        2.03798
         439203.20    3763011.16        1.02966                    439253.20
3763011.16        1.10668
         439303.20    3763011.16        1.19489                    439353.20
3763011.16        1.29475
         439403.20    3763011.16        1.43806                    439453.20
3763011.16        1.56042
         439503.20    3763011.16        1.72481                    439553.20
3763011.16        1.87304
         439203.20    3763061.16        0.98607                    439253.20
3763061.16        1.04413
         439303.20    3763061.16        1.12253                    439353.20
3763061.16        1.21061
         439403.20    3763061.16        1.31362                    439453.20
3763061.16        1.43486
         439503.20    3763061.16        1.58268                    439553.20
3763061.16        1.71709
         439196.01    3762392.48        1.27922                    439246.01
3762392.48        1.39937
         439296.01    3762392.48        1.53813                    439346.01
3762392.48        1.70007
         439396.01    3762392.48        1.89056                    439446.01
```

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                    INCLUDING SOURCE(S):   L0012004   , L0012005 , L0012006   , L0013410   , L0013411   ,
                                    L0013412   , L0013413   , L0013414   , L0013415   , L0013416 , L0013417   , L0013418   , L0013419   ,
                                    L0013420   , L0013421   , L0013422   , L0013423   , L0013424 , L0013425   , L0013426   , L0013427   ,
                                    L0013428   , L0013429   , L0013430   , L0013431   , L0013432 , L0013433   , L0013434   , . . .   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                                ** CONC OF PM_10   IN MICROGRAMS/M**3
                                    **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)   Y-COORD (M)   CONC
 - - -

```
3762542.48        1.72037
         439396.01    3762542.48        1.91872                    439446.01
3762542.48        2.15551
         439496.01    3762542.48        2.44441                    439546.01
3762542.48        2.79692
         439196.01    3762592.48        1.28106                    439246.01
3762592.48        1.40309
         439296.01    3762592.48        1.54425                    439346.01
3762592.48        1.70919
         439396.01    3762592.48        1.90467                    439446.01
3762592.48        2.13936
         439496.01    3762592.48        2.42570                    439546.01
3762592.48        2.77491
         439196.01    3762642.48        1.26871                    439246.01
3762642.48        1.38873
         439296.01    3762642.48        1.52670                    439346.01
3762642.48        1.68792
         439396.01    3762642.48        1.88007                    439446.01
3762642.48        2.10996
         439496.01    3762642.48        2.38982                    439546.01
3762642.48        2.73138
         439196.01    3762692.48        1.25138                    439246.01
3762692.48        1.36804
         439296.01    3762692.48        1.50333                    439346.01
3762692.48        1.66082
         439396.01    3762692.48        1.84546                    439446.01
3762692.48        2.06742
         439496.01    3762692.48        2.33710                    439546.01
3762692.48        2.66587
         439196.01    3762742.48        1.22928                    439246.01
3762742.48        1.34163
         439296.01    3762742.48        1.47192                    439346.01
3762742.48        1.62314
         439396.01    3762742.48        1.80093                    439446.01
3762742.48        2.01235
         439496.01    3762742.48        2.26823                    439546.01
3762742.48        2.57912
         439196.01    3762792.48        1.20272                    439246.01
3762792.48        1.31003
         439296.01    3762792.48        1.43436                    439346.01
3762792.48        1.57827
         439396.01    3762792.48        1.74656                    439446.01
3762792.48        1.94518
         439496.01    3762792.48        2.18413                    439546.01
3762792.48        2.47329
         439196.01    3762842.48        1.17232                    439246.01
3762842.48        1.27434
         439296.01    3762842.48        1.39144                    439346.01
3762842.48        1.52659
         439396.01    3762842.48        1.68398                    439446.01
3762842.48        1.86866
```

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                    INCLUDING SOURCE(S):   L0012004   , L0012005
, L0012006   , L0013410   , L0013411   ,
                 L0013412   , L0013413   , L0013414   , L0013415   , L0013416
, L0013417   , L0013418   , L0013419   ,
                 L0013420   , L0013421   , L0013422   , L0013423   , L0013424
, L0013425   , L0013426   , L0013427   ,
                 L0013428   , L0013429   , L0013430   , L0013431   , L0013432
, L0013433   , L0013434   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439873.31   3762470.54   10.42350   439573.31
3762520.54   3.02598
         439623.31   3762520.54   3.52664   439673.31
3762520.54   4.17140
         439723.31   3762520.54   5.01996   439773.31
3762520.54   6.16948
         439823.31   3762520.54   7.79284   439873.31
3762520.54   10.32639
         439573.31   3762570.54   3.01287   439623.31
3762570.54   3.51320
         439673.31   3762570.54   4.15846   439723.31
3762570.54   5.00829
         439773.31   3762570.54   6.16269   439823.31
3762570.54   7.79543

```
         439873.31    3762570.54       10.29570                    439573.31
3762620.54        2.97577
         439623.31    3762620.54        3.46871                    439673.31
3762620.54        4.10436
         439723.31    3762620.54        4.94887                    439773.31
3762620.54        6.10438
         439823.31    3762620.54        7.76959                    439873.31
3762620.54       10.38143
         439573.31    3762670.54        2.91311                    439623.31
3762670.54        3.39310
         439673.31    3762670.54        4.01008                    439723.31
3762670.54        4.83482
         439773.31    3762670.54        5.98708                    439823.31
3762670.54        7.68303
         439873.31    3762670.54       10.40293                    439152.35
3761448.92        0.65282
         439202.35    3761448.92        0.67586                    439252.35
3761448.92        0.70098
         439302.35    3761448.92        0.72662                    439352.35
3761448.92        0.75295
         439402.35    3761448.92        0.77977                    439452.35
3761448.92        0.80680
         439502.35    3761448.92        0.83526                    439552.35
3761448.92        0.86253
         439152.35    3761498.92        0.68238                    439202.35
3761498.92        0.70964
         439252.35    3761498.92        0.73903                    439302.35
3761498.92        0.76644
         439352.35    3761498.92        0.79511                    439402.35
3761498.92        0.82469
         439452.35    3761498.92        0.85482                    439502.35
3761498.92        0.88752
         439552.35    3761498.92        0.91935                    439152.35
3761548.92        0.71296
         439202.35    3761548.92        0.74306                    439252.35
3761548.92        0.77515
         439302.35    3761548.92        0.80617                    439352.35
3761548.92        0.83787
         439402.35    3761548.92        0.87237                    439452.35
3761548.92        0.90742
         439502.35    3761548.92        0.94351                    439552.35
3761548.92        0.98095
         439152.35    3761598.92        0.74440                    439202.35
3761598.92        0.77720
         439252.35    3761598.92        0.81273                    439302.35
3761598.92        0.84908
         439352.35    3761598.92        0.88505                    439402.35
3761598.92        0.92480
         439452.35    3761598.92        0.96587                    439502.35
3761598.92        1.00643
         439552.35    3761598.92        1.05018                    439152.35
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3761648.92   0.77621
         439202.35   3761648.92   0.81329   439252.35
3761648.92   0.85318
         439302.35   3761648.92   0.89469   439352.35
3761648.92   0.93685
         439402.35   3761648.92   0.98220   439452.35
3761648.92   1.02875
         439502.35   3761648.92   1.07782   439552.35
3761648.92   1.12809
         439152.35   3761698.92   0.80890   439202.35
3761698.92   0.84979
         439252.35   3761698.92   0.89304   439302.35
3761698.92   0.94034
         439352.35   3761698.92   0.99047   439402.35
3761698.92   1.04369

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                               INCLUDING SOURCE(S):   L0012004   , L0012005
, L0012006   , L0013410   , L0013411   ,
                  L0013412   , L0013413   , L0013414   , L0013415   , L0013416
, L0013417   , L0013418   , L0013419   ,
                  L0013420   , L0013421   , L0013422   , L0013423   , L0013424
, L0013425   , L0013426   , L0013427   ,
                  L0013428   , L0013429   , L0013430   , L0013431   , L0013432
, L0013433   , L0013434   , . . .   ,

                                     *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439452.35   3761698.92   1.09503   439502.35
3761698.92   1.15343
         439552.35   3761698.92   1.21338   439152.35
3761748.92   0.84148
         439202.35   3761748.92   0.88753   439252.35
3761748.92   0.93483
         439302.35   3761748.92   0.98831   439352.35

3761748.92 1.04440
439402.35 3761748.92 1.10429 439452.35
3761748.92 1.16585
439502.35 3761748.92 1.23000 439552.35
3761748.92 1.30198
439152.35 3761798.92 0.87466 439202.35
3761798.92 0.92616
439252.35 3761798.92 0.98004 439302.35
3761798.92 1.04033
439352.35 3761798.92 1.10149 439402.35
3761798.92 1.16888
439452.35 3761798.92 1.24325 439502.35
3761798.92 1.31643
439552.35 3761798.92 1.40180 439152.35
3761848.92 0.90831
439202.35 3761848.92 0.96451 439252.35
3761848.92 1.02369
439302.35 3761848.92 1.08994 439352.35
3761848.92 1.15907
439402.35 3761848.92 1.23930 439452.35
3761848.92 1.32286
439502.35 3761848.92 1.40836 439552.35
3761848.92 1.50948
439152.35 3761898.92 0.94252 439202.35
3761898.92 1.00327
439252.35 3761898.92 1.06836 439302.35
3761898.92 1.14393
439352.35 3761898.92 1.22331 439402.35
3761898.92 1.31047
439452.35 3761898.92 1.41008 439502.35
3761898.92 1.51538
439552.35 3761898.92 1.63097 439152.35
3761948.92 0.97583
439202.35 3761948.92 1.04152 439252.35
3761948.92 1.11260
439302.35 3761948.92 1.19659 439352.35
3761948.92 1.28672
439402.35 3761948.92 1.38415 439452.35
3761948.92 1.49811
439502.35 3761948.92 1.62247 439552.35
3761948.92 1.75987
439152.35 3761998.92 1.00841 439202.35
3761998.92 1.07880
439252.35 3761998.92 1.15618 439302.35
3761998.92 1.24851
439352.35 3761998.92 1.35004 439402.35
3761998.92 1.45854
439452.35 3761998.92 1.58451 439502.35
3761998.92 1.72622
439552.35 3761998.92 1.88769 439152.35
3762048.92 1.03989

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         439716.61    3761520.65        1.05442                    439766.61
3761520.65        1.08642
         439816.61    3761520.65        1.11441                    439866.61
3761520.65        1.14100
         439616.61    3761570.65        1.06141                    439666.61
3761570.65        1.10087
         439716.61    3761570.65        1.13979                    439766.61
3761570.65        1.17799
         439816.61    3761570.65        1.21269                    439866.61
3761570.65        1.24324
         440451.14    3762893.83        9.96138                    440501.14
3762893.83        8.64025
         440551.14    3762893.83        7.47923                    440601.14
3762893.83        6.50665
         440651.14    3762893.83        5.72000                    440701.14
3762893.83        5.07974
         440751.14    3762893.83        4.55285                    440801.14
3762893.83        4.10786
         440851.14    3762893.83        3.72839                    440451.14
3762943.83        7.28931
         440501.14    3762943.83        6.68933                    440551.14
3762943.83        6.08949
         440601.14    3762943.83        5.50212                    440651.14
3762943.83        4.97808
         440701.14    3762943.83        4.51540                    440751.14
3762943.83        4.11557
         440801.14    3762943.83        3.75827                    440851.14
3762943.83        3.44666
         441116.67    3763135.31        1.80455                    441166.67
3763135.31        1.72068
         441116.67    3763185.31        1.67317                    441166.67
3763185.31        1.60118
         441116.67    3763235.31        1.53596                    441166.67
3763235.31        1.48489
         441116.67    3763285.31        1.42114                    441166.67
3763285.31        1.37838
         441116.67    3763335.31        1.28794                    441166.67
3763335.31        1.26531
         441116.67    3763385.31        1.16432                    441166.67
3763385.31        1.14931
         441116.67    3763435.31        1.05049                    441166.67
3763435.31        1.04284
         440433.43    3762815.13       17.34975                    440483.43
3762815.13       12.88361
         440533.43    3762815.13       10.18671                    440583.43
3762815.13        8.34810
         440633.43    3762815.13        7.05220                    440683.43
3762815.13        6.07861
         440733.43    3762815.13        5.32460                    440783.43
3762815.13        4.70959
         440833.43    3762815.13        4.22950                    440883.43
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3762815.13        3.81225
         440933.43    3762815.13        3.43559                      440983.43
3762815.13        3.13139
         440433.43    3762865.13       12.79993                      440483.43
3762865.13       10.57708
         440533.43    3762865.13        8.80490                      440583.43
3762865.13        7.45486
         440633.43    3762865.13        6.42255                      440683.43
3762865.13        5.61971
         440733.43    3762865.13        4.97582                      440783.43
3762865.13        4.44993
         440833.43    3762865.13        4.00759                      440883.43
3762865.13        3.61944
         440933.43    3762865.13        3.29631                      440983.43
3762865.13        3.01753
         441118.27    3762686.02        2.54238                      441168.27
3762686.02        2.34689
         441118.27    3762736.02        2.55156                      441168.27
3762736.02        2.34595
         441118.27    3762786.02        2.52187                      441168.27
3762786.02        2.33179
         441118.27    3762836.02        2.46808                      441168.27
3762836.02        2.28614
         440411.67    3762093.41        3.94675                      440461.67
3762093.41        3.60029
         440511.67    3762093.41        3.30053                      440561.67
3762093.41        3.03520
         440611.67    3762093.41        2.79987                      440411.67
3762143.41        4.69076
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:10:54

                                    PAGE  20
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                    INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	4.20623	440511.67	3762143.41	3.80400
440561.67	3762143.41	3.45619	440611.67	3762143.41	3.16091
440406.61	3762008.86	3.02736	440456.61	3762008.86	2.82502
440506.61	3762008.86	2.63742	440556.61	3762008.86	2.46370
440606.61	3762008.86	2.30578	440656.61	3762008.86	2.16202
440706.61	3762008.86	2.03165	440756.61	3762008.86	1.91300
440806.61	3762008.86	1.80007	440856.61	3762008.86	1.70165
440906.61	3762008.86	1.61356	440956.61	3762008.86	1.52921
441006.61	3762008.86	1.45195	441056.61	3762008.86	1.37918
441106.61	3762008.86	1.31355	441156.61	3762008.86	1.25314
440406.61	3762058.86	3.54661	440456.61	3762058.86	3.26788
440506.61	3762058.86	3.01962	440556.61	3762058.86	2.79660
440606.61	3762058.86	2.59582	440656.61	3762058.86	2.41757
440706.61	3762058.86	2.25910	440756.61	3762058.86	2.11476
440806.61	3762058.86	1.98062	440856.61	3762058.86	1.86297
440906.61	3762058.86	1.75717	440956.61	3762058.86	1.65913
441006.61	3762058.86	1.56936	441056.61	3762058.86	1.48742
441106.61	3762058.86	1.41228	441156.61	3762058.86	1.34335
440191.38	3762138.44	8.19657	440241.38	3762138.44	7.04676
440291.38	3762138.44	6.14224	440341.38	3762138.44	5.39472
440191.38	3762188.44	12.19469	440241.38	3762188.44	9.44414
440291.38	3762188.44	7.82445	440341.38	3762188.44	6.64510

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012004 , L0012005 , L0012006 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	1.04666	439943.36	3761716.33	1.71335
439170.17	3763092.51	0.91556	439220.17	3763092.51	0.96856
439270.17	3763092.51	1.03972	439320.17	3763092.51	1.11506
439370.17	3763092.51	1.20129	439420.17	3763092.51	1.30157
439470.17	3763092.51	1.41981	439520.17	3763092.51	1.54343
439570.17	3763092.51	1.67664	439620.17	3763092.51	1.82263
439670.17	3763092.51	1.98270	439720.17	3763092.51	2.16233
439770.17	3763092.51	2.36355	439820.17	3763092.51	2.57863
439870.17	3763092.51	2.81055	439170.17	3763142.51	0.86923

```
         439220.17    3763142.51        0.92391                    439270.17
3763142.51        0.98971
         439320.17    3763142.51        1.05650                    439370.17
3763142.51        1.13419
         439420.17    3763142.51        1.22394                    439470.17
3763142.51        1.31554
         439520.17    3763142.51        1.41775                    439570.17
3763142.51        1.53794
         439620.17    3763142.51        1.66432                    439670.17
3763142.51        1.78507
         439720.17    3763142.51        1.92436                    439770.17
3763142.51        2.07993
         439820.17    3763142.51        2.24178                    439870.17
3763142.51        2.39721
         439170.17    3763192.51        0.82969                    439220.17
3763192.51        0.88102
         439270.17    3763192.51        0.94090                    439320.17
3763192.51        0.99739
         439370.17    3763192.51        1.06898                    439420.17
3763192.51        1.14868
         439470.17    3763192.51        1.22658                    439520.17
3763192.51        1.31251
         439570.17    3763192.51        1.40998                    439620.17
3763192.51        1.51623
         439670.17    3763192.51        1.60994                    439720.17
3763192.51        1.70948
         439770.17    3763192.51        1.80890                    439820.17
3763192.51        1.92089
         439870.17    3763192.51        2.01724                    439170.17
3763242.51        0.78791
         439220.17    3763242.51        0.83492                    439270.17
3763242.51        0.88984
         439320.17    3763242.51        0.94320                    439370.17
3763242.51        1.00604
         439420.17    3763242.51        1.07196                    439470.17
3763242.51        1.13406
         439520.17    3763242.51        1.20934                    439570.17
3763242.51        1.29112
         439620.17    3763242.51        1.37839                    439670.17
3763242.51        1.46190
         439720.17    3763242.51        1.52512                    439770.17
3763242.51        1.57322
         439820.17    3763242.51        1.64626                    439870.17
3763242.51        1.66220
         439170.17    3763292.51        0.74715                    439220.17
3763292.51        0.77770
         439270.17    3763292.51        0.82568                    439320.17
3763292.51        0.87983
         439370.17    3763292.51        0.94042                    439420.17
3763292.51        0.99258
         439470.17    3763292.51        1.04222                    439520.17
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0012004 , L0012005
, L0012006 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416
, L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424
, L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432
, L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.82755	439370.17	3763342.51	0.88332
439420.17	3763342.51	0.92302	439470.17	3763342.51	0.96293
439520.17	3763342.51	1.00307	439570.17	3763342.51	1.07108
439620.17	3763342.51	1.13639	439670.17	3763342.51	1.17306
439720.17	3763342.51	1.20225	439770.17	3763342.51	1.16182
439820.17	3763342.51	1.19823	439870.17		

```
3763342.51        1.23732
         439170.17    3763392.51        0.65212                   439220.17
3763392.51        0.66922
         439270.17    3763392.51        0.72740                   439320.17
3763392.51        0.75806
         439370.17    3763392.51        0.79972                   439420.17
3763392.51        0.82871
         439470.17    3763392.51        0.84012                   439520.17
3763392.51        0.91751
         439570.17    3763392.51        0.96899                   439620.17
3763392.51        1.01891
         439670.17    3763392.51        1.01748                   439720.17
3763392.51        1.04823
         439770.17    3763392.51        1.04654                   439820.17
3763392.51        1.06953
         439870.17    3763392.51        1.09515                   439170.17
3763442.51        0.59229
         439220.17    3763442.51        0.61735                   439270.17
3763442.51        0.67195
         439320.17    3763442.51        0.69889                   439370.17
3763442.51        0.72083
         439420.17    3763442.51        0.75221                   439470.17
3763442.51        0.77011
         439520.17    3763442.51        0.82080                   439570.17
3763442.51        0.85482
         439620.17    3763442.51        0.89247                   439670.17
3763442.51        0.90445
         439720.17    3763442.51        0.92608                   439770.17
3763442.51        0.93992
         439820.17    3763442.51        0.95771                   439870.17
3763442.51        0.97914
         439203.20    3762911.16        1.12512                   439253.20
3762911.16        1.21539
         439303.20    3762911.16        1.32238                   439353.20
3762911.16        1.45504
         439403.20    3762911.16        1.59417                   439453.20
3762911.16        1.75902
         439503.20    3762911.16        1.95426                   439553.20
3762911.16        2.18057
         439203.20    3762961.16        1.08391                   439253.20
3762961.16        1.17143
         439303.20    3762961.16        1.26955                   439353.20
3762961.16        1.38348
         439403.20    3762961.16        1.51386                   439453.20
3762961.16        1.66216
         439503.20    3762961.16        1.83663                   439553.20
3762961.16        2.03798
         439203.20    3763011.16        1.02966                   439253.20
3763011.16        1.10668
         439303.20    3763011.16        1.19489                   439353.20
3763011.16        1.29475
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         439403.20    3763011.16        1.43806                      439453.20
3763011.16        1.56042
         439503.20    3763011.16        1.72481                      439553.20
3763011.16        1.87304
         439203.20    3763061.16        0.98607                      439253.20
3763061.16        1.04413
         439303.20    3763061.16        1.12253                      439353.20
3763061.16        1.21061
         439403.20    3763061.16        1.31362                      439453.20
3763061.16        1.43486
         439503.20    3763061.16        1.58268                      439553.20
3763061.16        1.71709
         439196.01    3762392.48        1.27922                      439246.01
3762392.48        1.39937
         439296.01    3762392.48        1.53813                      439346.01
3762392.48        1.70007
         439396.01    3762392.48        1.89056                      439446.01
3762392.48        2.11614
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:10:54

                                   PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439496.01    3762392.48        2.38998                      439546.01
3762392.48        2.72593
         439196.01    3762442.48        1.28755                      439246.01
3762442.48        1.40944
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         439296.01    3762442.48        1.55185                    439346.01
3762442.48        1.71743
         439396.01    3762442.48        1.91308                    439446.01
3762442.48        2.14692
         439496.01    3762442.48        2.42888                    439546.01
3762442.48        2.77402
         439196.01    3762492.48        1.29052                    439246.01
3762492.48        1.41306
         439296.01    3762492.48        1.55635                    439346.01
3762492.48        1.72423
         439396.01    3762492.48        1.92189                    439446.01
3762492.48        2.15811
         439496.01    3762492.48        2.44605                    439546.01
3762492.48        2.79835
         439196.01    3762542.48        1.28838                    439246.01
3762542.48        1.41052
         439296.01    3762542.48        1.55341                    439346.01
3762542.48        1.72037
         439396.01    3762542.48        1.91872                    439446.01
3762542.48        2.15551
         439496.01    3762542.48        2.44441                    439546.01
3762542.48        2.79692
         439196.01    3762592.48        1.28106                    439246.01
3762592.48        1.40309
         439296.01    3762592.48        1.54425                    439346.01
3762592.48        1.70919
         439396.01    3762592.48        1.90467                    439446.01
3762592.48        2.13936
         439496.01    3762592.48        2.42570                    439546.01
3762592.48        2.77491
         439196.01    3762642.48        1.26871                    439246.01
3762642.48        1.38873
         439296.01    3762642.48        1.52670                    439346.01
3762642.48        1.68792
         439396.01    3762642.48        1.88007                    439446.01
3762642.48        2.10996
         439496.01    3762642.48        2.38982                    439546.01
3762642.48        2.73138
         439196.01    3762692.48        1.25138                    439246.01
3762692.48        1.36804
         439296.01    3762692.48        1.50333                    439346.01
3762692.48        1.66082
         439396.01    3762692.48        1.84546                    439446.01
3762692.48        2.06742
         439496.01    3762692.48        2.33710                    439546.01
3762692.48        2.66587
         439196.01    3762742.48        1.22928                    439246.01
3762742.48        1.34163
         439296.01    3762742.48        1.47192                    439346.01
3762742.48        1.62314
         439396.01    3762742.48        1.80093                    439446.01
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3762742.48        2.01235
         439496.01    3762742.48        2.26823                      439546.01
3762742.48        2.57912
         439196.01    3762792.48        1.20272                      439246.01
3762792.48        1.31003
         439296.01    3762792.48        1.43436                      439346.01
3762792.48        1.57827
         439396.01    3762792.48        1.74656                      439446.01
3762792.48        1.94518
         439496.01    3762792.48        2.18413                      439546.01
3762792.48        2.47329
         439196.01    3762842.48        1.17232                      439246.01
3762842.48        1.27434
         439296.01    3762842.48        1.39144                      439346.01
3762842.48        1.52659
         439396.01    3762842.48        1.68398                      439446.01
3762842.48        1.86866
         439496.01    3762842.48        2.08400                      439546.01
3762842.48        2.32822
         439573.31    3762470.54        3.01387                      439623.31
3762470.54        3.51074
         439673.31    3762470.54        4.14705                      439723.31
3762470.54        4.98288
         439773.31    3762470.54        6.12415                      439823.31
3762470.54        7.76552
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:10:54

                                   PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M)        CONC
 - - -
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```
         439202.35    3761548.92        0.74306                      439252.35
3761548.92        0.77515
         439302.35    3761548.92        0.80617                      439352.35
3761548.92        0.83787
         439402.35    3761548.92        0.87237                      439452.35
3761548.92        0.90742
         439502.35    3761548.92        0.94351                      439552.35
3761548.92        0.98095
         439152.35    3761598.92        0.74440                      439202.35
3761598.92        0.77720
         439252.35    3761598.92        0.81273                      439302.35
3761598.92        0.84908
         439352.35    3761598.92        0.88505                      439402.35
3761598.92        0.92480
         439452.35    3761598.92        0.96587                      439502.35
3761598.92        1.00643
         439552.35    3761598.92        1.05018                      439152.35
3761648.92        0.77621
         439202.35    3761648.92        0.81329                      439252.35
3761648.92        0.85318
         439302.35    3761648.92        0.89469                      439352.35
3761648.92        0.93685
         439402.35    3761648.92        0.98220                      439452.35
3761648.92        1.02875
         439502.35    3761648.92        1.07782                      439552.35
3761648.92        1.12809
         439152.35    3761698.92        0.80890                      439202.35
3761698.92        0.84979
         439252.35    3761698.92        0.89304                      439302.35
3761698.92        0.94034
         439352.35    3761698.92        0.99047                      439402.35
3761698.92        1.04369
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:10:54

                                    PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                    INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.09503	439502.35	3761698.92	1.15343
439552.35	3761698.92	1.21338	439152.35	3761748.92	0.84148
439202.35	3761748.92	0.88753	439252.35	3761748.92	0.93483
439302.35	3761748.92	0.98831	439352.35	3761748.92	1.04440
439402.35	3761748.92	1.10429	439452.35	3761748.92	1.16585
439502.35	3761748.92	1.23000	439552.35	3761748.92	1.30198
439152.35	3761798.92	0.87466	439202.35	3761798.92	0.92616
439252.35	3761798.92	0.98004	439302.35	3761798.92	1.04033
439352.35	3761798.92	1.10149	439402.35	3761798.92	1.16888
439452.35	3761798.92	1.24325	439502.35	3761798.92	1.31643
439552.35	3761798.92	1.40180	439152.35	3761848.92	0.90831
439202.35	3761848.92	0.96451	439252.35	3761848.92	1.02369
439302.35	3761848.92	1.08994	439352.35	3761848.92	1.15907
439402.35	3761848.92	1.23930	439452.35	3761848.92	1.32286
439502.35	3761848.92	1.40836	439552.35	3761848.92	1.50948
439152.35	3761898.92	0.94252	439202.35	3761898.92	1.00327
439252.35	3761898.92	1.06836	439302.35	3761898.92	1.14393
439352.35	3761898.92	1.22331	439402.35	3761898.92	1.31047
439452.35	3761898.92	1.41008	439502.35	3761898.92	1.51538
439552.35	3761898.92	1.63097	439152.35	3761948.92	0.97583
439202.35	3761948.92	1.04152	439252.35		

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3761948.92        1.11260
         439302.35    3761948.92        1.19659                      439352.35
3761948.92        1.28672
         439402.35    3761948.92        1.38415                      439452.35
3761948.92        1.49811
         439502.35    3761948.92        1.62247                      439552.35
3761948.92        1.75987
         439152.35    3761998.92        1.00841                      439202.35
3761998.92        1.07880
         439252.35    3761998.92        1.15618                      439302.35
3761998.92        1.24851
         439352.35    3761998.92        1.35004                      439402.35
3761998.92        1.45854
         439452.35    3761998.92        1.58451                      439502.35
3761998.92        1.72622
         439552.35    3761998.92        1.88769                      439152.35
3762048.92        1.03989
         439202.35    3762048.92        1.11779                      439252.35
3762048.92        1.20443
         439302.35    3762048.92        1.30186                      439352.35
3762048.92        1.41129
         439402.35    3762048.92        1.53363                      439452.35
3762048.92        1.67527
         439502.35    3762048.92        1.83664                      439552.35
3762048.92        2.02173
         439616.61    3761420.65        0.86442                      439666.61
3761420.65        0.88972
         439716.61    3761420.65        0.91364                      439766.61
3761420.65        0.93603
         439816.61    3761420.65        0.95548                      439866.61
3761420.65        0.97426
         439616.61    3761470.65        0.92316                      439666.61
3761470.65        0.95182
         439716.61    3761470.65        0.97966                      439766.61
3761470.65        1.00590
         439816.61    3761470.65        1.02900                      439866.61
3761470.65        1.05182
         439616.61    3761520.65        0.98811                      439666.61
3761520.65        1.02172
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:10:54

                                    PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                          *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
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                L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         439716.61    3761520.65        1.05442                       439766.61
3761520.65        1.08642
         439816.61    3761520.65        1.11441                       439866.61
3761520.65        1.14100
         439616.61    3761570.65        1.06141                       439666.61
3761570.65        1.10087
         439716.61    3761570.65        1.13979                       439766.61
3761570.65        1.17799
         439816.61    3761570.65        1.21269                       439866.61
3761570.65        1.24324
         440451.14    3762893.83        9.96138                       440501.14
3762893.83        8.64025
         440551.14    3762893.83        7.47923                       440601.14
3762893.83        6.50665
         440651.14    3762893.83        5.72000                       440701.14
3762893.83        5.07974
         440751.14    3762893.83        4.55285                       440801.14
3762893.83        4.10786
         440851.14    3762893.83        3.72839                       440451.14
3762943.83        7.28931
         440501.14    3762943.83        6.68933                       440551.14
3762943.83        6.08949
         440601.14    3762943.83        5.50212                       440651.14
3762943.83        4.97808
         440701.14    3762943.83        4.51540                       440751.14
3762943.83        4.11557
         440801.14    3762943.83        3.75827                       440851.14
3762943.83        3.44666
         441116.67    3763135.31        1.80455                       441166.67
3763135.31        1.72068
         441116.67    3763185.31        1.67317                       441166.67
3763185.31        1.60118
         441116.67    3763235.31        1.53596                       441166.67
3763235.31        1.48489
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         441116.67    3763285.31        1.42114                      441166.67
3763285.31        1.37838
         441116.67    3763335.31        1.28794                      441166.67
3763335.31        1.26531
         441116.67    3763385.31        1.16432                      441166.67
3763385.31        1.14931
         441116.67    3763435.31        1.05049                      441166.67
3763435.31        1.04284
         440433.43    3762815.13       17.34975                      440483.43
3762815.13       12.88361
         440533.43    3762815.13       10.18671                      440583.43
3762815.13        8.34810
         440633.43    3762815.13        7.05220                      440683.43
3762815.13        6.07861
         440733.43    3762815.13        5.32460                      440783.43
3762815.13        4.70959
         440833.43    3762815.13        4.22950                      440883.43
3762815.13        3.81225
         440933.43    3762815.13        3.43559                      440983.43
3762815.13        3.13139
         440433.43    3762865.13       12.79993                      440483.43
3762865.13       10.57708
         440533.43    3762865.13        8.80490                      440583.43
3762865.13        7.45486
         440633.43    3762865.13        6.42255                      440683.43
3762865.13        5.61971
         440733.43    3762865.13        4.97582                      440783.43
3762865.13        4.44993
         440833.43    3762865.13        4.00759                      440883.43
3762865.13        3.61944
         440933.43    3762865.13        3.29631                      440983.43
3762865.13        3.01753
         441118.27    3762686.02        2.54238                      441168.27
3762686.02        2.34689
         441118.27    3762736.02        2.55156                      441168.27
3762736.02        2.34595
         441118.27    3762786.02        2.52187                      441168.27
3762786.02        2.33179
         441118.27    3762836.02        2.46808                      441168.27
3762836.02        2.28614
         440411.67    3762093.41        3.94675                      440461.67
3762093.41        3.60029
         440511.67    3762093.41        3.30053                      440561.67
3762093.41        3.03520
         440611.67    3762093.41        2.79987                      440411.67
3762143.41        4.69076
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:10:54
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012004 , L0012005 , L0012006 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	4.20623	440511.67	3762143.41	3.80400
440561.67	3762143.41	3.45619	440611.67	3762143.41	3.16091
440406.61	3762008.86	3.02736	440456.61	3762008.86	2.82502
440506.61	3762008.86	2.63742	440556.61	3762008.86	2.46370
440606.61	3762008.86	2.30578	440656.61	3762008.86	2.16202
440706.61	3762008.86	2.03165	440756.61	3762008.86	1.91300
440806.61	3762008.86	1.80007	440856.61	3762008.86	1.70165
440906.61	3762008.86	1.61356	440956.61	3762008.86	1.52921
441006.61	3762008.86	1.45195	441056.61	3762008.86	1.37918
441106.61	3762008.86	1.31355	441156.61	3762008.86	1.25314
440406.61	3762058.86	3.54661	440456.61	3762058.86	3.26788
440506.61	3762058.86	3.01962	440556.61	3762058.86	2.79660
440606.61	3762058.86	2.59582	440656.61	3762058.86	2.41757
440706.61	3762058.86	2.25910	440756.61		

3762058.86   2.11476
         440806.61   3762058.86   1.98062   440856.61
3762058.86   1.86297
         440906.61   3762058.86   1.75717   440956.61
3762058.86   1.65913
         441006.61   3762058.86   1.56936   441056.61
3762058.86   1.48742
         441106.61   3762058.86   1.41228   441156.61
3762058.86   1.34335
         440191.38   3762138.44   8.19657   440241.38
3762138.44   7.04676
         440291.38   3762138.44   6.14224   440341.38
3762138.44   5.39472
         440191.38   3762188.44   12.19469   440241.38
3762188.44   9.44414
         440291.38   3762188.44   7.82445   440341.38
3762188.44   6.64510
         440191.38   3762238.44   17.21180   440241.38
3762238.44   12.18977
         440291.38   3762238.44   9.66767   440341.38
3762238.44   8.00589

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                   INCLUDING SOURCE(S):   L0012004   , L0012005
, L0012006   , L0013410   , L0013411   ,
                  L0013412   , L0013413   , L0013414   , L0013415   , L0013416
, L0013417   , L0013418   , L0013419   ,
                  L0013420   , L0013421   , L0013422   , L0013423   , L0013424
, L0013425   , L0013426   , L0013427   ,
                  L0013428   , L0013429   , L0013430   , L0013431   , L0013432
, L0013433   , L0013434   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440407.86   3761497.84   13.70052 (15012317)   439943.36

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3761716.33       22.18579  (16092606)
        439170.17   3763092.51       12.89497  (15090919)                439220.17
3763092.51       13.56031  (15090919)
        439270.17   3763092.51       14.17894  (15090919)                439320.17
3763092.51       14.82081  (15090919)
        439370.17   3763092.51       15.44737  (15090919)                439420.17
3763092.51       16.36482  (16122818)
        439470.17   3763092.51       17.43374  (15031221)                439520.17
3763092.51       18.75221  (15031221)
        439570.17   3763092.51       19.97673  (15031221)                439620.17
3763092.51       21.02991  (13101603)
        439670.17   3763092.51       22.53223  (14010619)                439720.17
3763092.51       24.12053  (15060905)
        439770.17   3763092.51       25.90160  (15060905)                439820.17
3763092.51       28.80418  (15101219)
        439870.17   3763092.51       31.82257  (15101219)                439170.17
3763142.51       12.64867  (15090919)
        439220.17   3763142.51       13.13753  (16122818)                439270.17
3763142.51       13.73268  (16122818)
        439320.17   3763142.51       14.42712  (15031221)                439370.17
3763142.51       15.26076  (15031221)
        439420.17   3763142.51       16.17301  (15031221)                439470.17
3763142.51       17.08662  (15031221)
        439520.17   3763142.51       17.88217  (15031221)                439570.17
3763142.51       18.88638  (13101603)
        439620.17   3763142.51       20.19635  (14010619)                439670.17
3763142.51       21.64041  (15060905)
        439720.17   3763142.51       23.16127  (16102019)                439770.17
3763142.51       24.94702  (13030120)
        439820.17   3763142.51       27.66893  (15101219)                439870.17
3763142.51       29.77217  (15101219)
        439170.17   3763192.51       12.48307  (15031221)                439220.17
3763192.51       13.05801  (15031221)
        439270.17   3763192.51       13.65589  (15031221)                439320.17
3763192.51       14.36067  (15031221)
        439370.17   3763192.51       14.97962  (15031221)                439420.17
3763192.51       15.60885  (15031221)
        439470.17   3763192.51       16.34423  (13101603)                439520.17
3763192.51       17.37386  (16102418)
        439570.17   3763192.51       18.34305  (15060905)                439620.17
3763192.51       19.57959  (15060905)
        439670.17   3763192.51       20.99287  (16102019)                439720.17
3763192.51       22.52458  (13030120)
        439770.17   3763192.51       24.67315  (13070104)                439820.17
3763192.51       27.42809  (15101219)
        439870.17   3763192.51       29.31669  (15012822)                439170.17
3763242.51       12.55637  (15031221)
        439220.17   3763242.51       13.02217  (15031221)                439270.17
3763242.51       13.44021  (15031221)
        439320.17   3763242.51       14.00043  (13101421)                439370.17
3763242.51       14.57482  (16102418)
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        439420.17   3763242.51       15.30805  (16102418)                439470.17
3763242.51       16.28324  (15060905)
        439520.17   3763242.51       17.21711  (15060905)                439570.17
3763242.51       18.11584  (15060905)
        439620.17   3763242.51       19.18858  (16102019)                439670.17
3763242.51       20.26765  (16102019)
        439720.17   3763242.51       22.20842  (13030120)                439770.17
3763242.51       24.81434  (15101219)
        439820.17   3763242.51       26.88105  (15101219)                439870.17
3763242.51       29.18712  (12060305)
        439170.17   3763292.51       12.42502  (15120219)                439220.17
3763292.51       13.28947  (15120219)
        439270.17   3763292.51       13.74777  (13101421)                439320.17
3763292.51       14.15479  (16102418)
        439370.17   3763292.51       14.52955  (16102418)                439420.17
3763292.51       15.35935  (15060905)
        439470.17   3763292.51       16.44647  (15060905)                439520.17
3763292.51       17.38635  (15060905)
        439570.17   3763292.51       17.81250  (16102019)                439620.17
3763292.51       18.90592  (16102019)
        439670.17   3763292.51       19.99083  (13030120)                439720.17
3763292.51       22.27933  (13070104)
        439770.17   3763292.51       25.17753  (15100921)                439820.17
3763292.51       26.56746  (15101219)
        439870.17   3763292.51       27.90155  (12060305)                439170.17
3763342.51       12.74016  (15120219)
        439220.17   3763342.51       13.59331  (13101421)                439270.17
3763342.51       13.65930  (16102418)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:10:54

                                    PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                    INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	13.98940	(16102418)	439370.17	3763342.51	14.45098	(15060905)
439420.17	3763342.51	15.41309	(15060905)	439470.17	3763342.51	16.37381	(15060905)
439520.17	3763342.51	17.43901	(14091605)	439570.17	3763342.51	18.12468	(16102019)
439620.17	3763342.51	18.58287	(16102019)	439670.17	3763342.51	20.10448	(16111720)
439720.17	3763342.51	21.63183	(13070104)	439770.17	3763342.51	24.28822	(15102420)
439820.17	3763342.51	25.35288	(15101219)	439870.17	3763342.51	26.85498	(12060305)
439170.17	3763392.51	13.01193	(13101421)	439220.17	3763392.51	13.89187	(13101421)
439270.17	3763392.51	13.81104	(16102418)	439320.17	3763392.51	14.56766	(15070104)
439370.17	3763392.51	15.13687	(15060905)	439420.17	3763392.51	15.88140	(14010617)
439470.17	3763392.51	17.35721	(14010617)	439520.17	3763392.51	17.38346	(16102019)
439570.17	3763392.51	18.05095	(16102019)	439620.17	3763392.51	18.68172	(16111720)
439670.17	3763392.51	20.51660	(15100921)	439720.17	3763392.51	22.02607	(15100921)
439770.17	3763392.51	23.36876	(15101219)	439820.17	3763392.51	24.34240	(16061821)
439870.17	3763392.51	25.75063	(12060305)	439170.17	3763442.51	13.57601	(15101220)
439220.17	3763442.51	14.12812	(15082702)	439270.17	3763442.51	14.02368	(15070104)
439320.17	3763442.51	14.79135	(15070104)	439370.17	3763442.51	15.62738	(15070104)
439420.17	3763442.51	16.25410	(14010617)	439470.17	3763442.51	17.13102	(15090205)
439520.17	3763442.51	17.63395	(16102019)	439570.17	3763442.51	18.38141	(14091524)
439620.17	3763442.51	19.06839	(14091524)	439670.17	3763442.51	20.31128	(15100921)
439720.17	3763442.51	21.56837	(15100921)	439770.17	3763442.51	22.57659	(15101219)
439820.17	3763442.51	23.68587	(16061821)	439870.17	3763442.51	24.88374	(13082523)
439203.20	3762911.16	13.43595	(15031224)	439253.20	3762911.16	14.18629	(15031224)
439303.20	3762911.16	15.11929	(15063019)	439353.20			

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3762911.16       16.24156  (15063019)
        439403.20   3762911.16       17.48499  (15063019)                439453.20
3762911.16       18.93031  (15063019)
        439503.20   3762911.16       20.54787  (15063019)                439553.20
3762911.16       22.37838  (15063019)
        439203.20   3762961.16       13.54492  (15063019)                439253.20
3762961.16       14.33693  (15063019)
        439303.20   3762961.16       15.21396  (15063019)                439353.20
3762961.16       16.17465  (15063019)
        439403.20   3762961.16       17.20411  (15063019)                439453.20
3762961.16       18.29219  (15063019)
        439503.20   3762961.16       19.62181  (15112017)                439553.20
3762961.16       21.30067  (15112017)
        439203.20   3763011.16       13.42309  (15063019)                439253.20
3763011.16       14.12082  (15112017)
        439303.20   3763011.16       14.98440  (15112017)                439353.20
3763011.16       15.92476  (15112017)
        439403.20   3763011.16       16.61342  (15112017)                439453.20
3763011.16       17.84530  (15090919)
        439503.20   3763011.16       19.14935  (15090919)                439553.20
3763011.16       20.74326  (15090919)
        439203.20   3763061.16       13.28523  (15112017)                439253.20
3763061.16       14.11940  (15090919)
        439303.20   3763061.16       14.86782  (15090919)                439353.20
3763061.16       15.67388  (15090919)
        439403.20   3763061.16       16.50773  (15090919)                439453.20
3763061.16       17.34212  (15090919)
        439503.20   3763061.16       18.53846  (16122818)                439553.20
3763061.16       19.93694  (15031221)
        439196.01   3762392.48       13.59362  (13012017)                439246.01
3762392.48       14.25419  (15030621)
        439296.01   3762392.48       14.96780  (14051419)                439346.01
3762392.48       15.80065  (14051419)
        439396.01   3762392.48       16.65236  (14051419)                439446.01
3762392.48       17.52208  (14051419)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:10:54

                                    PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                    INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
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L0013428 , L0013429 , L0013430 , L0013431 , L0013432
, L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	18.51947	(14051419)	439546.01	3762392.48	19.69499	(14051419)
439196.01	3762442.48	13.72354	(15100918)	439246.01	3762442.48	14.30813	(15100918)
439296.01	3762442.48	14.95230	(15100918)	439346.01	3762442.48	15.71051	(14051419)
439396.01	3762442.48	16.68438	(14051419)	439446.01	3762442.48	17.66064	(14051419)
439496.01	3762442.48	18.61067	(14051419)	439546.01	3762442.48	19.89332	(15031321)
439196.01	3762492.48	13.75600	(15100918)	439246.01	3762492.48	14.37488	(15100918)
439296.01	3762492.48	15.04426	(15100918)	439346.01	3762492.48	15.73628	(15100918)
439396.01	3762492.48	16.67843	(15030621)	439446.01	3762492.48	17.91980	(14051419)
439496.01	3762492.48	19.24675	(14051419)	439546.01	3762492.48	20.55967	(16092601)
439196.01	3762542.48	13.72536	(15100918)	439246.01	3762542.48	14.44620	(15100918)
439296.01	3762542.48	15.23680	(15100918)	439346.01	3762542.48	16.05003	(15100918)
439396.01	3762542.48	16.91759	(15100918)	439446.01	3762542.48	18.01158	(15030621)
439496.01	3762542.48	19.50589	(15030621)	439546.01	3762542.48	21.37180	(14051419)
439196.01	3762592.48	13.54312	(14011717)	439246.01	3762592.48	14.33231	(15100918)
439296.01	3762592.48	15.28589	(15100918)	439346.01	3762592.48	16.30978	(15100918)
439396.01	3762592.48	17.43667	(15100918)	439446.01	3762592.48	18.68916	(15100918)
439496.01	3762592.48	20.11399	(15100918)	439546.01	3762592.48	21.57659	(15100918)
439196.01	3762642.48	13.68040	(14020117)	439246.01	3762642.48	14.45361	(14020117)
439296.01	3762642.48	15.25794	(14020117)	439346.01	3762642.48	16.15139	(14011717)

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        439396.01   3762642.48       17.22458  (13101422)               439446.01
3762642.48       18.76229  (15100918)
        439496.01   3762642.48       20.61175  (15100918)               439546.01
3762642.48       22.64916  (15100918)
        439196.01   3762692.48       13.78073  (16102417)               439246.01
3762692.48       14.55470  (16102417)
        439296.01   3762692.48       15.43369  (16102417)               439346.01
3762692.48       16.40112  (16102417)
        439396.01   3762692.48       17.56359  (14020117)               439446.01
3762692.48       19.01280  (14020117)
        439496.01   3762692.48       20.76377  (14011717)               439546.01
3762692.48       22.75569  (14011717)
        439196.01   3762742.48       13.52235  (16122920)               439246.01
3762742.48       14.32598  (16102417)
        439296.01   3762742.48       15.28036  (16102417)               439346.01
3762742.48       16.34282  (16102417)
        439396.01   3762742.48       17.57322  (16102417)               439446.01
3762742.48       19.01957  (16102417)
        439496.01   3762742.48       20.80821  (16102417)               439546.01
3762742.48       22.85275  (16102417)
        439196.01   3762792.48       13.41335  (16022406)               439246.01
3762792.48       14.18042  (15051306)
        439296.01   3762792.48       15.10387  (15051306)               439346.01
3762792.48       16.15356  (15051306)
        439396.01   3762792.48       17.36467  (15051306)               439446.01
3762792.48       18.76571  (15051306)
        439496.01   3762792.48       20.47364  (15051306)               439546.01
3762792.48       22.47134  (15051306)
        439196.01   3762842.48       13.44160  (15110717)               439246.01
3762842.48       14.18100  (15110717)
        439296.01   3762842.48       15.04737  (15110717)               439346.01
3762842.48       16.05425  (13122517)
        439396.01   3762842.48       17.22552  (13122517)               439446.01
3762842.48       18.56923  (13122517)
        439496.01   3762842.48       20.16654  (15110717)               439546.01
3762842.48       22.04883  (15031224)
        439573.31   3762470.54       21.06539  (15031321)               439623.31
3762470.54       22.90010  (14051322)
        439673.31   3762470.54       24.93582  (16112908)               439723.31
3762470.54       27.61100  (16101918)
        439773.31   3762470.54       30.54121  (14011519)               439823.31
3762470.54       36.84710  (14011717)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:10:54

                                  PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                INCLUDING SOURCE(S):   L0012004   , L0012005
, L0012006   , L0013410   , L0013411   ,
                  L0013412   , L0013413   , L0013414   , L0013415   , L0013416
, L0013417   , L0013418   , L0013419   ,
                  L0013420   , L0013421   , L0013422   , L0013423   , L0013424
, L0013425   , L0013426   , L0013427   ,
                  L0013428   , L0013429   , L0013430   , L0013431   , L0013432
, L0013433   , L0013434   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439873.31   3762470.54   49.36408 (14011717)   439573.31
3762520.54   21.92488 (14051419)
        439623.31   3762520.54   23.86653 (16092601)   439673.31
3762520.54   26.44151 (15031321)
        439723.31   3762520.54   29.49045 (14051322)   439773.31
3762520.54   32.92681 (16112908)
        439823.31   3762520.54   37.89489 (16101918)   439873.31
3762520.54   50.18611 (15090919)
        439573.31   3762570.54   22.53173 (14051419)   439623.31
3762570.54   25.08983 (14051419)
        439673.31   3762570.54   27.85290 (14051419)   439723.31
3762570.54   31.04028 (16092601)
        439773.31   3762570.54   35.21084 (15031321)   439823.31
3762570.54   40.31246 (14051322)
        439873.31   3762570.54   48.87689 (16112908)   439573.31
3762620.54   23.43451 (15100918)
        439623.31   3762620.54   25.62798 (15100918)   439673.31
3762620.54   28.49838 (15030621)
        439723.31   3762620.54   32.34701 (14051419)   439773.31
3762620.54   36.95372 (14051419)
        439823.31   3762620.54   42.09797 (14051419)   439873.31
3762620.54   49.19549 (16092601)
        439573.31   3762670.54   23.74172 (15100918)   439623.31
3762670.54   26.75275 (15100918)
        439673.31   3762670.54   30.14934 (15100918)   439723.31
3762670.54   34.18548 (15100918)
        439773.31   3762670.54   39.02491 (15100918)   439823.31
3762670.54   44.51451 (15100918)
        439873.31   3762670.54   52.46599 (14051419)   439152.35
3761448.92   10.09544 (12010822)
        439202.35   3761448.92   10.29347 (12010822)   439252.35

3761448.92 10.64715 (15031301)
  439302.35 3761448.92 11.07550 (15031301) 439352.35
3761448.92 11.30461 (13112508)
  439402.35 3761448.92 11.62743 (14022807) 439452.35
3761448.92 12.48041 (12110417)
  439502.35 3761448.92 13.00212 (12110417) 439552.35
3761448.92 13.22116 (13101517)
  439152.35 3761498.92 10.40746 (16021419) 439202.35
3761498.92 10.73873 (12010822)
  439252.35 3761498.92 11.05355 (12010822) 439302.35
3761498.92 11.44614 (15031301)
  439352.35 3761498.92 11.83353 (15031301) 439402.35
3761498.92 12.05712 (14112323)
  439452.35 3761498.92 12.65727 (12110417) 439502.35
3761498.92 13.51769 (12110417)
  439552.35 3761498.92 13.94926 (13101517) 439152.35
3761548.92 10.79315 (16021419)
  439202.35 3761548.92 11.04933 (16021419) 439252.35
3761548.92 11.45593 (12010822)
  439302.35 3761548.92 11.72051 (14110501) 439352.35
3761548.92 12.19125 (15031301)
  439402.35 3761548.92 12.59359 (15031301) 439452.35
3761548.92 12.87610 (14112323)
  439502.35 3761548.92 13.82174 (12110417) 439552.35
3761548.92 14.57969 (12110417)
  439152.35 3761598.92 10.98725 (16020619) 439202.35
3761598.92 11.43225 (16021419)
  439252.35 3761598.92 11.74542 (16021419) 439302.35
3761598.92 12.17307 (12010822)
  439352.35 3761598.92 12.49592 (14110501) 439402.35
3761598.92 13.11810 (15031301)
  439452.35 3761598.92 13.52499 (13112508) 439502.35
3761598.92 13.97090 (12110417)
  439552.35 3761598.92 15.15014 (12110417) 439152.35
3761648.92 11.33950 (14042901)
  439202.35 3761648.92 11.65444 (16020619) 439252.35
3761648.92 12.20048 (16021419)
  439302.35 3761648.92 12.55212 (16021419) 439352.35
3761648.92 13.01829 (12010822)
  439402.35 3761648.92 13.48955 (14110501) 439452.35
3761648.92 14.18622 (15031301)
  439502.35 3761648.92 14.61627 (13112508) 439552.35
3761648.92 15.54512 (12110417)
  439152.35 3761698.92 11.62069 (14042901) 439202.35
3761698.92 12.03043 (14042901)
  439252.35 3761698.92 12.38124 (16020619) 439302.35
3761698.92 12.98850 (16021419)
  439352.35 3761698.92 13.42996 (16021419) 439402.35
3761698.92 14.07202 (12010822)

                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                INCLUDING SOURCE(S):   L0012004   , L0012005 , L0012006   , L0013410   , L0013411   ,
                L0013412   , L0013413   , L0013414   , L0013415   , L0013416 , L0013417   , L0013418   , L0013419   ,
                L0013420   , L0013421   , L0013422   , L0013423   , L0013424 , L0013425   , L0013426   , L0013427   ,
                L0013428   , L0013429   , L0013430   , L0013431   , L0013432 , L0013433   , L0013434   , . . .   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        439452.35   3761698.92   14.55891 (15031301)   439502.35   3761698.92   15.39343 (15031301)
        439552.35   3761698.92   15.91614 (14112323)   439152.35   3761748.92   11.68896 (14043002)
        439202.35   3761748.92   12.29768 (14042901)   439252.35   3761748.92   12.76153 (14042901)
        439302.35   3761748.92   13.23583 (16020619)   439352.35   3761748.92   13.90479 (16021419)
        439402.35   3761748.92   14.41101 (16021419)   439452.35   3761748.92   15.05640 (12010822)
        439502.35   3761748.92   15.78153 (15031301)   439552.35   3761748.92   16.68471 (15031301)
        439152.35   3761798.92   12.03252 (14043002)   439202.35   3761798.92   12.47419 (14043002)
        439252.35   3761798.92   13.05206 (14042901)   439302.35   3761798.92   13.74344 (14042901)
        439352.35   3761798.92   14.18802 (16020619)   439402.35   3761798.92   14.92934 (16021419)
        439452.35   3761798.92   15.57748 (16021419)   439502.35   3761798.92   16.24363 (12010822)
        439552.35   3761798.92   17.33659 (15031301)   439152.35   3761848.92   12.24525 (13101522)
        439202.35   3761848.92   12.76683 (14043002)   439252.35   3761848.92   13.25786 (14043002)

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        439302.35   3761848.92       13.89199  (14042901)              439352.35
3761848.92       14.60070  (14042901)
        439402.35   3761848.92       15.29677  (16020619)              439452.35
3761848.92       16.17508  (16021419)
        439502.35   3761848.92       16.73721  (16021419)              439552.35
3761848.92       17.81008  (12010822)
        439152.35   3761898.92       12.33896  (16101918)              439202.35
3761898.92       12.98844  (13101522)
        439252.35   3761898.92       13.50428  (13101522)              439302.35
3761898.92       14.25500  (14043002)
        439352.35   3761898.92       14.86880  (14042901)              439402.35
3761898.92       15.79034  (14042901)
        439452.35   3761898.92       16.61152  (14042901)              439502.35
3761898.92       17.65776  (16021419)
        439552.35   3761898.92       18.56830  (16021419)              439152.35
3761948.92       12.70904  (16101918)
        439202.35   3761948.92       13.17616  (16101918)              439252.35
3761948.92       13.68682  (13101522)
        439302.35   3761948.92       14.51325  (13101522)              439352.35
3761948.92       15.28343  (14043002)
        439402.35   3761948.92       15.91920  (14043002)              439452.35
3761948.92       17.16556  (14042901)
        439502.35   3761948.92       18.13941  (14042901)              439552.35
3761948.92       19.39733  (16021419)
        439152.35   3761998.92       12.70036  (16101918)              439202.35
3761998.92       13.39303  (16101918)
        439252.35   3761998.92       13.97769  (16101918)              439302.35
3761998.92       14.62302  (16101918)
        439352.35   3761998.92       15.56656  (13101522)              439402.35
3761998.92       16.33686  (14043002)
        439452.35   3761998.92       17.26379  (14043002)              439502.35
3761998.92       18.52211  (14042901)
        439552.35   3761998.92       19.73844  (14042901)              439152.35
3762048.92       12.91865  (15071822)
        439202.35   3762048.92       13.41814  (13100622)              439252.35
3762048.92       14.18906  (16101918)
        439302.35   3762048.92       15.04263  (16101918)              439352.35
3762048.92       15.78706  (16101918)
        439402.35   3762048.92       16.59604  (13101522)              439452.35
3762048.92       17.62502  (13101522)
        439502.35   3762048.92       18.76512  (14043002)              439552.35
3762048.92       20.15994  (14042901)
        439616.61   3761420.65       13.17172  (14100421)              439666.61
3761420.65       13.63527  (13101419)
        439716.61   3761420.65       13.64366  (13022722)              439766.61
3761420.65       14.31350  (14050102)
        439816.61   3761420.65       14.22815  (13050220)              439866.61
3761420.65       14.55724  (16092606)
        439616.61   3761470.65       13.74126  (16092523)              439666.61
3761470.65       14.26653  (13101419)
        439716.61   3761470.65       14.54701  (13101419)              439766.61
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3761470.65 15.03899 (14050102)
 439816.61 3761470.65 15.21042 (14050102) 439866.61
3761470.65 15.47956 (16092606)
 439616.61 3761520.65 14.44631 (16092523) 439666.61
3761520.65 14.92984 (14100421)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0012004 , L0012005 , L0012006 , L0013410 , L0013411 ,
 L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
 L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
 L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3
 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	15.47721	(13101419)	439766.61	3761520.65	15.79419	(14050102)
439816.61	3761520.65	16.30691	(14050102)	439866.61	3761520.65	16.48596	(16092606)
439616.61	3761570.65	15.42573	(13101517)	439666.61	3761570.65	15.67552	(16092523)
439716.61	3761570.65	16.38933	(13101419)	439766.61	3761570.65	16.67583	(13101419)
439816.61	3761570.65	17.46440	(14050102)	439866.61	3761570.65	17.54448	(16092606)
440451.14	3762893.83	60.24776	(13041207)	440501.14	3762893.83	49.71920	(13041207)
440551.14	3762893.83	38.56129	(15062719)	440601.14	3762893.83	33.09905	(15062719)
440651.14	3762893.83	29.04584	(15091021)	440701.14	3762893.83	25.93050	(15091021)
440751.14	3762893.83	23.59236	(15091021)	440801.14			

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3762893.83       21.71458  (15091021)
        440851.14   3762893.83       20.17226  (13090620)                440451.14
3762943.83       50.25773  (12082820)
        440501.14   3762943.83       42.82720  (15070606)                440551.14
3762943.83       36.94958  (16061306)
        440601.14   3762943.83       32.27900  (16061306)                440651.14
3762943.83       28.75186  (16102617)
        440701.14   3762943.83       26.11909  (15092020)                440751.14
3762943.83       23.99698  (15062719)
        440801.14   3762943.83       22.26102  (15062719)                440851.14
3762943.83       20.83293  (15062719)
        441116.67   3763135.31       15.88267  (12092321)                441166.67
3763135.31       15.02947  (12092321)
        441116.67   3763185.31       16.12688  (14051521)                441166.67
3763185.31       15.06041  (15011617)
        441116.67   3763235.31       16.18751  (14051521)                441166.67
3763235.31       15.31924  (14051521)
        441116.67   3763285.31       17.54462  (15120817)                441166.67
3763285.31       15.94780  (14051521)
        441116.67   3763335.31       17.89239  (15082522)                441166.67
3763335.31       16.72885  (13090101)
        441116.67   3763385.31       17.72738  (15082522)                441166.67
3763385.31       17.15700  (15082522)
        441116.67   3763435.31       17.74659  (14080123)                441166.67
3763435.31       16.97996  (15071801)
        440433.43   3762815.13       72.29720  (13041207)                440483.43
3762815.13       55.08806  (15101304)
        440533.43   3762815.13       44.83909  (16051606)                440583.43
3762815.13       37.45005  (12102517)
        440633.43   3762815.13       32.29427  (12102517)                440683.43
3762815.13       28.33832  (12102517)
        440733.43   3762815.13       25.16102  (12102517)                440783.43
3762815.13       22.83573  (12102517)
        440833.43   3762815.13       20.67193  (12102517)                440883.43
3762815.13       19.11100  (12102517)
        440933.43   3762815.13       17.90068  (12102517)                440983.43
3762815.13       16.74403  (12102517)
        440433.43   3762865.13       79.55322  (13041207)                440483.43
3762865.13       56.15444  (13041207)
        440533.43   3762865.13       42.14048  (15091021)                440583.43
3762865.13       35.82960  (13090620)
        440633.43   3762865.13       31.07201  (13083023)                440683.43
3762865.13       27.40640  (13083023)
        440733.43   3762865.13       24.54140  (13083023)                440783.43
3762865.13       22.35266  (13083023)
        440833.43   3762865.13       20.61780  (13083023)                440883.43
3762865.13       19.17469  (15101304)
        440933.43   3762865.13       17.87797  (12092319)                440983.43
3762865.13       16.75850  (12093019)
        441118.27   3762686.02       14.08696  (15082521)                441168.27
3762686.02       13.41687  (15082521)
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        441118.27   3762736.02       14.21914  (15082521)                441168.27
3762736.02       13.56901  (15082521)
        441118.27   3762786.02       14.27700  (13083022)                441168.27
3762786.02       13.56126  (13083022)
        441118.27   3762836.02       14.34950  (14100319)                441168.27
3762836.02       13.61379  (14100319)
        440411.67   3762093.41       21.18782  (15081621)                440461.67
3762093.41       20.17062  (15012217)
        440511.67   3762093.41       19.37418  (12012517)                440561.67
3762093.41       18.25993  (16021220)
        440611.67   3762093.41       17.49022  (13012317)                440411.67
3762143.41       22.17330  (15012217)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:10:54

                                    PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                    INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        440461.67   3762143.41       21.54031  (15012217)                440511.67
3762143.41       20.54411  (12012517)
        440561.67   3762143.41       19.33861  (15071919)                440611.67
3762143.41       18.61627  (13012317)
        440406.61   3762008.86       20.43551  (13012317)                440456.61
3762008.86       18.93106  (13012317)
        440506.61   3762008.86       17.93876  (12012517)                440556.61
3762008.86       16.99634  (12012517)
        440606.61   3762008.86       16.24512  (15071919)                440656.61
3762008.86       15.65476  (13012317)
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        440706.61   3762008.86       15.12230  (13012317)                440756.61
3762008.86       14.40729  (15091323)
        440806.61   3762008.86       13.88482  (12012417)                440856.61
3762008.86       13.36980  (16081621)
        440906.61   3762008.86       12.94452  (12092121)                440956.61
3762008.86       12.45243  (15080521)
        441006.61   3762008.86       11.95089  (15080521)                441056.61
3762008.86       11.51516  (16083020)
        441106.61   3762008.86       11.14164  (16062022)                441156.61
3762008.86       10.75214  (15091122)
        440406.61   3762058.86       21.10332  (13012317)                440456.61
3762058.86       19.53994  (15012217)
        440506.61   3762058.86       18.75669  (12012517)                440556.61
3762058.86       17.67581  (12012517)
        440606.61   3762058.86       16.98174  (15071919)                440656.61
3762058.86       16.41100  (13012317)
        440706.61   3762058.86       15.70781  (13012317)                440756.61
3762058.86       15.06641  (12012417)
        440806.61   3762058.86       14.42636  (16081621)                440856.61
3762058.86       13.86658  (12092121)
        440906.61   3762058.86       13.32634  (15080521)                440956.61
3762058.86       12.76063  (15080521)
        441006.61   3762058.86       12.27883  (16083020)                441056.61
3762058.86       11.84619  (16062022)
        441106.61   3762058.86       11.40378  (15091122)                441156.61
3762058.86       10.97532  (15091122)
        440191.38   3762138.44       40.94508  (12012517)                440241.38
3762138.44       33.34885  (12012517)
        440291.38   3762138.44       28.50402  (13012317)                440341.38
3762138.44       25.03350  (15081621)
        440191.38   3762188.44       54.97835  (12122516)                440241.38
3762188.44       39.00816  (12122516)
        440291.38   3762188.44       30.30982  (13012317)                440341.38
3762188.44       26.47062  (16081621)
        440191.38   3762238.44       49.40394  (12012517)                440241.38
3762238.44       38.74295  (16070906)
        440291.38   3762238.44       32.93275  (15070806)                440341.38
3762238.44       27.85561  (15080521)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:10:54

                                   PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                L0013412    , L0013413    , L0013414    , L0013415    , L0013416
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, L0013417    , L0013418    , L0013419    ,
                L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440407.86   3761497.84       13.70052  (15012317)               439943.36
3761716.33       22.18579  (16092606)
        439170.17   3763092.51       12.89497  (15090919)               439220.17
3763092.51       13.56031  (15090919)
        439270.17   3763092.51       14.17894  (15090919)               439320.17
3763092.51       14.82081  (15090919)
        439370.17   3763092.51       15.44737  (15090919)               439420.17
3763092.51       16.36482  (16122818)
        439470.17   3763092.51       17.43374  (15031221)               439520.17
3763092.51       18.75221  (15031221)
        439570.17   3763092.51       19.97673  (15031221)               439620.17
3763092.51       21.02991  (13101603)
        439670.17   3763092.51       22.53223  (14010619)               439720.17
3763092.51       24.12053  (15060905)
        439770.17   3763092.51       25.90160  (15060905)               439820.17
3763092.51       28.80418  (15101219)
        439870.17   3763092.51       31.82257  (15101219)               439170.17
3763142.51       12.64867  (15090919)
        439220.17   3763142.51       13.13753  (16122818)               439270.17
3763142.51       13.73268  (16122818)
        439320.17   3763142.51       14.42712  (15031221)               439370.17
3763142.51       15.26076  (15031221)
        439420.17   3763142.51       16.17301  (15031221)               439470.17
3763142.51       17.08662  (15031221)
        439520.17   3763142.51       17.88217  (15031221)               439570.17
3763142.51       18.88638  (13101603)
        439620.17   3763142.51       20.19635  (14010619)               439670.17
3763142.51       21.64041  (15060905)
        439720.17   3763142.51       23.16127  (16102019)               439770.17
3763142.51       24.94702  (13030120)
        439820.17   3763142.51       27.66893  (15101219)               439870.17
3763142.51       29.77217  (15101219)
        439170.17   3763192.51       12.48307  (15031221)               439220.17
3763192.51       13.05801  (15031221)
        439270.17   3763192.51       13.65589  (15031221)               439320.17
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3763192.51 14.36067 (15031221)
 439370.17 3763192.51 14.97962 (15031221) 439420.17
3763192.51 15.60885 (15031221)
 439470.17 3763192.51 16.34423 (13101603) 439520.17
3763192.51 17.37386 (16102418)
 439570.17 3763192.51 18.34305 (15060905) 439620.17
3763192.51 19.57959 (15060905)
 439670.17 3763192.51 20.99287 (16102019) 439720.17
3763192.51 22.52458 (13030120)
 439770.17 3763192.51 24.67315 (13070104) 439820.17
3763192.51 27.42809 (15101219)
 439870.17 3763192.51 29.31669 (15012822) 439170.17
3763242.51 12.55637 (15031221)
 439220.17 3763242.51 13.02217 (15031221) 439270.17
3763242.51 13.44021 (15031221)
 439320.17 3763242.51 14.00043 (13101421) 439370.17
3763242.51 14.57482 (16102418)
 439420.17 3763242.51 15.30805 (16102418) 439470.17
3763242.51 16.28324 (15060905)
 439520.17 3763242.51 17.21711 (15060905) 439570.17
3763242.51 18.11584 (15060905)
 439620.17 3763242.51 19.18858 (16102019) 439670.17
3763242.51 20.26765 (16102019)
 439720.17 3763242.51 22.20842 (13030120) 439770.17
3763242.51 24.81434 (15101219)
 439820.17 3763242.51 26.88105 (15101219) 439870.17
3763242.51 29.18712 (12060305)
 439170.17 3763292.51 12.42502 (15120219) 439220.17
3763292.51 13.28947 (15120219)
 439270.17 3763292.51 13.74777 (13101421) 439320.17
3763292.51 14.15479 (16102418)
 439370.17 3763292.51 14.52955 (16102418) 439420.17
3763292.51 15.35935 (15060905)
 439470.17 3763292.51 16.44647 (15060905) 439520.17
3763292.51 17.38635 (15060905)
 439570.17 3763292.51 17.81250 (16102019) 439620.17
3763292.51 18.90592 (16102019)
 439670.17 3763292.51 19.99083 (13030120) 439720.17
3763292.51 22.27933 (13070104)
 439770.17 3763292.51 25.17753 (15100921) 439820.17
3763292.51 26.56746 (15101219)
 439870.17 3763292.51 27.90155 (12060305) 439170.17
3763342.51 12.74016 (15120219)
 439220.17 3763342.51 13.59331 (13101421) 439270.17
3763342.51 13.65930 (16102418)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0012004 , L0012005 , L0012006 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	13.98940	(16102418)	439370.17	3763342.51	14.45098	(15060905)
439420.17	3763342.51	15.41309	(15060905)	439470.17	3763342.51	16.37381	(15060905)
439520.17	3763342.51	17.43901	(14091605)	439570.17	3763342.51	18.12468	(16102019)
439620.17	3763342.51	18.58287	(16102019)	439670.17	3763342.51	20.10448	(16111720)
439720.17	3763342.51	21.63183	(13070104)	439770.17	3763342.51	24.28822	(15102420)
439820.17	3763342.51	25.35288	(15101219)	439870.17	3763342.51	26.85498	(12060305)
439170.17	3763392.51	13.01193	(13101421)	439220.17	3763392.51	13.89187	(13101421)
439270.17	3763392.51	13.81104	(16102418)	439320.17	3763392.51	14.56766	(15070104)
439370.17	3763392.51	15.13687	(15060905)	439420.17	3763392.51	15.88140	(14010617)
439470.17	3763392.51	17.35721	(14010617)	439520.17	3763392.51	17.38346	(16102019)
439570.17	3763392.51	18.05095	(16102019)	439620.17	3763392.51	18.68172	(16111720)
439670.17	3763392.51	20.51660	(15100921)	439720.17	3763392.51	22.02607	(15100921)
439770.17	3763392.51	23.36876	(15101219)	439820.17	3763392.51	24.34240	(16061821)
439870.17	3763392.51	25.75063	(12060305)	439170.17	3763442.51	13.57601	(15101220)

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        439220.17   3763442.51       14.12812  (15082702)                439270.17
3763442.51       14.02368  (15070104)
        439320.17   3763442.51       14.79135  (15070104)                439370.17
3763442.51       15.62738  (15070104)
        439420.17   3763442.51       16.25410  (14010617)                439470.17
3763442.51       17.13102  (15090205)
        439520.17   3763442.51       17.63395  (16102019)                439570.17
3763442.51       18.38141  (14091524)
        439620.17   3763442.51       19.06839  (14091524)                439670.17
3763442.51       20.31128  (15100921)
        439720.17   3763442.51       21.56837  (15100921)                439770.17
3763442.51       22.57659  (15101219)
        439820.17   3763442.51       23.68587  (16061821)                439870.17
3763442.51       24.88374  (13082523)
        439203.20   3762911.16       13.43595  (15031224)                439253.20
3762911.16       14.18629  (15031224)
        439303.20   3762911.16       15.11929  (15063019)                439353.20
3762911.16       16.24156  (15063019)
        439403.20   3762911.16       17.48499  (15063019)                439453.20
3762911.16       18.93031  (15063019)
        439503.20   3762911.16       20.54787  (15063019)                439553.20
3762911.16       22.37838  (15063019)
        439203.20   3762961.16       13.54492  (15063019)                439253.20
3762961.16       14.33693  (15063019)
        439303.20   3762961.16       15.21396  (15063019)                439353.20
3762961.16       16.17465  (15063019)
        439403.20   3762961.16       17.20411  (15063019)                439453.20
3762961.16       18.29219  (15063019)
        439503.20   3762961.16       19.62181  (15112017)                439553.20
3762961.16       21.30067  (15112017)
        439203.20   3763011.16       13.42309  (15063019)                439253.20
3763011.16       14.12082  (15112017)
        439303.20   3763011.16       14.98440  (15112017)                439353.20
3763011.16       15.92476  (15112017)
        439403.20   3763011.16       16.61342  (15112017)                439453.20
3763011.16       17.84530  (15090919)
        439503.20   3763011.16       19.14935  (15090919)                439553.20
3763011.16       20.74326  (15090919)
        439203.20   3763061.16       13.28523  (15112017)                439253.20
3763061.16       14.11940  (15090919)
        439303.20   3763061.16       14.86782  (15090919)                439353.20
3763061.16       15.67388  (15090919)
        439403.20   3763061.16       16.50773  (15090919)                439453.20
3763061.16       17.34212  (15090919)
        439503.20   3763061.16       18.53846  (16122818)                439553.20
3763061.16       19.93694  (15031221)
        439196.01   3762392.48       13.59362  (13012017)                439246.01
3762392.48       14.25419  (15030621)
        439296.01   3762392.48       14.96780  (14051419)                439346.01
3762392.48       15.80065  (14051419)
        439396.01   3762392.48       16.65236  (14051419)                439446.01
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL   ***
                                 INCLUDING SOURCE(S):   L0012004   , L0012005 , L0012006   , L0013410   , L0013411   ,
                                 L0013412   , L0013413   , L0013414   , L0013415   , L0013416 , L0013417   , L0013418   , L0013419   ,
                                 L0013420   , L0013421   , L0013422   , L0013423   , L0013424 , L0013425   , L0013426   , L0013427   ,
                                 L0013428   , L0013429   , L0013430   , L0013431   , L0013432 , L0013433   , L0013434   , . . .   ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
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3762542.48       16.05003  (15100918)
        439396.01   3762542.48       16.91759  (15100918)                439446.01
3762542.48       18.01158  (15030621)
        439496.01   3762542.48       19.50589  (15030621)                439546.01
3762542.48       21.37180  (14051419)
        439196.01   3762592.48       13.54312  (14011717)                439246.01
3762592.48       14.33231  (15100918)
        439296.01   3762592.48       15.28589  (15100918)                439346.01
3762592.48       16.30978  (15100918)
        439396.01   3762592.48       17.43667  (15100918)                439446.01
3762592.48       18.68916  (15100918)
        439496.01   3762592.48       20.11399  (15100918)                439546.01
3762592.48       21.57659  (15100918)
        439196.01   3762642.48       13.68040  (14020117)                439246.01
3762642.48       14.45361  (14020117)
        439296.01   3762642.48       15.25794  (14020117)                439346.01
3762642.48       16.15139  (14011717)
        439396.01   3762642.48       17.22458  (13101422)                439446.01
3762642.48       18.76229  (15100918)
        439496.01   3762642.48       20.61175  (15100918)                439546.01
3762642.48       22.64916  (15100918)
        439196.01   3762692.48       13.78073  (16102417)                439246.01
3762692.48       14.55470  (16102417)
        439296.01   3762692.48       15.43369  (16102417)                439346.01
3762692.48       16.40112  (16102417)
        439396.01   3762692.48       17.56359  (14020117)                439446.01
3762692.48       19.01280  (14020117)
        439496.01   3762692.48       20.76377  (14011717)                439546.01
3762692.48       22.75569  (14011717)
        439196.01   3762742.48       13.52235  (16122920)                439246.01
3762742.48       14.32598  (16102417)
        439296.01   3762742.48       15.28036  (16102417)                439346.01
3762742.48       16.34282  (16102417)
        439396.01   3762742.48       17.57322  (16102417)                439446.01
3762742.48       19.01957  (16102417)
        439496.01   3762742.48       20.80821  (16102417)                439546.01
3762742.48       22.85275  (16102417)
        439196.01   3762792.48       13.41335  (16022406)                439246.01
3762792.48       14.18042  (15051306)
        439296.01   3762792.48       15.10387  (15051306)                439346.01
3762792.48       16.15356  (15051306)
        439396.01   3762792.48       17.36467  (15051306)                439446.01
3762792.48       18.76571  (15051306)
        439496.01   3762792.48       20.47364  (15051306)                439546.01
3762792.48       22.47134  (15051306)
        439196.01   3762842.48       13.44160  (15110717)                439246.01
3762842.48       14.18100  (15110717)
        439296.01   3762842.48       15.04737  (15110717)                439346.01
3762842.48       16.05425  (13122517)
        439396.01   3762842.48       17.22552  (13122517)                439446.01
3762842.48       18.56923  (13122517)
```

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0012004   , L0012005
, L0012006   , L0013410   , L0013411   ,
                  L0013412   , L0013413   , L0013414   , L0013415   , L0013416
, L0013417   , L0013418   , L0013419   ,
                  L0013420   , L0013421   , L0013422   , L0013423   , L0013424
, L0013425   , L0013426   , L0013427   ,
                  L0013428   , L0013429   , L0013430   , L0013431   , L0013432
, L0013433   , L0013434   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                    **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439873.31   3762470.54   49.36408 (14011717)   439573.31
3762520.54   21.92488 (14051419)
        439623.31   3762520.54   23.86653 (16092601)   439673.31
3762520.54   26.44151 (15031321)
        439723.31   3762520.54   29.49045 (14051322)   439773.31
3762520.54   32.92681 (16112908)
        439823.31   3762520.54   37.89489 (16101918)   439873.31
3762520.54   50.18611 (15090919)
        439573.31   3762570.54   22.53173 (14051419)   439623.31
3762570.54   25.08983 (14051419)
        439673.31   3762570.54   27.85290 (14051419)   439723.31
3762570.54   31.04028 (16092601)
        439773.31   3762570.54   35.21084 (15031321)   439823.31
3762570.54   40.31246 (14051322)

```
        439873.31   3762570.54       48.87689  (16112908)              439573.31
3762620.54       23.43451  (15100918)
        439623.31   3762620.54       25.62798  (15100918)              439673.31
3762620.54       28.49838  (15030621)
        439723.31   3762620.54       32.34701  (14051419)              439773.31
3762620.54       36.95372  (14051419)
        439823.31   3762620.54       42.09797  (14051419)              439873.31
3762620.54       49.19549  (16092601)
        439573.31   3762670.54       23.74172  (15100918)              439623.31
3762670.54       26.75275  (15100918)
        439673.31   3762670.54       30.14934  (15100918)              439723.31
3762670.54       34.18548  (15100918)
        439773.31   3762670.54       39.02491  (15100918)              439823.31
3762670.54       44.51451  (15100918)
        439873.31   3762670.54       52.46599  (14051419)              439152.35
3761448.92       10.09544  (12010822)
        439202.35   3761448.92       10.29347  (12010822)              439252.35
3761448.92       10.64715  (15031301)
        439302.35   3761448.92       11.07550  (15031301)              439352.35
3761448.92       11.30461  (13112508)
        439402.35   3761448.92       11.62743  (14022807)              439452.35
3761448.92       12.48041  (12110417)
        439502.35   3761448.92       13.00212  (12110417)              439552.35
3761448.92       13.22116  (13101517)
        439152.35   3761498.92       10.40746  (16021419)              439202.35
3761498.92       10.73873  (12010822)
        439252.35   3761498.92       11.05355  (12010822)              439302.35
3761498.92       11.44614  (15031301)
        439352.35   3761498.92       11.83353  (15031301)              439402.35
3761498.92       12.05712  (14112323)
        439452.35   3761498.92       12.65727  (12110417)              439502.35
3761498.92       13.51769  (12110417)
        439552.35   3761498.92       13.94926  (13101517)              439152.35
3761548.92       10.79315  (16021419)
        439202.35   3761548.92       11.04933  (16021419)              439252.35
3761548.92       11.45593  (12010822)
        439302.35   3761548.92       11.72051  (14110501)              439352.35
3761548.92       12.19125  (15031301)
        439402.35   3761548.92       12.59359  (15031301)              439452.35
3761548.92       12.87610  (14112323)
        439502.35   3761548.92       13.82174  (12110417)              439552.35
3761548.92       14.57969  (12110417)
        439152.35   3761598.92       10.98725  (16020619)              439202.35
3761598.92       11.43225  (16021419)
        439252.35   3761598.92       11.74542  (16021419)              439302.35
3761598.92       12.17307  (12010822)
        439352.35   3761598.92       12.49592  (14110501)              439402.35
3761598.92       13.11810  (15031301)
        439452.35   3761598.92       13.52499  (13112508)              439502.35
3761598.92       13.97090  (12110417)
        439552.35   3761598.92       15.15014  (12110417)              439152.35
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3761648.92 11.33950 (14042901)
 439202.35 3761648.92 11.65444 (16020619) 439252.35
3761648.92 12.20048 (16021419)
 439302.35 3761648.92 12.55212 (16021419) 439352.35
3761648.92 13.01829 (12010822)
 439402.35 3761648.92 13.48955 (14110501) 439452.35
3761648.92 14.18622 (15031301)
 439502.35 3761648.92 14.61627 (13112508) 439552.35
3761648.92 15.54512 (12110417)
 439152.35 3761698.92 11.62069 (14042901) 439202.35
3761698.92 12.03043 (14042901)
 439252.35 3761698.92 12.38124 (16020619) 439302.35
3761698.92 12.98850 (16021419)
 439352.35 3761698.92 13.42996 (16021419) 439402.35
3761698.92 14.07202 (12010822)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0012004 , L0012005 , L0012006 , L0013410 , L0013411 ,
 L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
 L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
 L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	14.55891	(15031301)	439502.35	3761698.92	15.39343	(15031301)
439552.35	3761698.92	15.91614	(14112323)	439152.35	3761748.92	11.68896	(14043002)
439202.35	3761748.92	12.29768	(14042901)	439252.35	3761748.92	12.76153	(14042901)
439302.35	3761748.92	13.23583	(16020619)	439352.35			

3761748.92 13.90479 (16021419)
439402.35 3761748.92 14.41101 (16021419) 439452.35
3761748.92 15.05640 (12010822)
439502.35 3761748.92 15.78153 (15031301) 439552.35
3761748.92 16.68471 (15031301)
439152.35 3761798.92 12.03252 (14043002) 439202.35
3761798.92 12.47419 (14043002)
439252.35 3761798.92 13.05206 (14042901) 439302.35
3761798.92 13.74344 (14042901)
439352.35 3761798.92 14.18802 (16020619) 439402.35
3761798.92 14.92934 (16021419)
439452.35 3761798.92 15.57748 (16021419) 439502.35
3761798.92 16.24363 (12010822)
439552.35 3761798.92 17.33659 (15031301) 439152.35
3761848.92 12.24525 (13101522)
439202.35 3761848.92 12.76683 (14043002) 439252.35
3761848.92 13.25786 (14043002)
439302.35 3761848.92 13.89199 (14042901) 439352.35
3761848.92 14.60070 (14042901)
439402.35 3761848.92 15.29677 (16020619) 439452.35
3761848.92 16.17508 (16021419)
439502.35 3761848.92 16.73721 (16021419) 439552.35
3761848.92 17.81008 (12010822)
439152.35 3761898.92 12.33896 (16101918) 439202.35
3761898.92 12.98844 (13101522)
439252.35 3761898.92 13.50428 (13101522) 439302.35
3761898.92 14.25500 (14043002)
439352.35 3761898.92 14.86880 (14042901) 439402.35
3761898.92 15.79034 (14042901)
439452.35 3761898.92 16.61152 (14042901) 439502.35
3761898.92 17.65776 (16021419)
439552.35 3761898.92 18.56830 (16021419) 439152.35
3761948.92 12.70904 (16101918)
439202.35 3761948.92 13.17616 (16101918) 439252.35
3761948.92 13.68682 (13101522)
439302.35 3761948.92 14.51325 (13101522) 439352.35
3761948.92 15.28343 (14043002)
439402.35 3761948.92 15.91920 (14043002) 439452.35
3761948.92 17.16556 (14042901)
439502.35 3761948.92 18.13941 (14042901) 439552.35
3761948.92 19.39733 (16021419)
439152.35 3761998.92 12.70036 (16101918) 439202.35
3761998.92 13.39303 (16101918)
439252.35 3761998.92 13.97769 (16101918) 439302.35
3761998.92 14.62302 (16101918)
439352.35 3761998.92 15.56656 (13101522) 439402.35
3761998.92 16.33686 (14043002)
439452.35 3761998.92 17.26379 (14043002) 439502.35
3761998.92 18.52211 (14042901)
439552.35 3761998.92 19.73844 (14042901) 439152.35
3762048.92 12.91865 (15071822)

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        439202.35   3762048.92       13.41814  (13100622)                439252.35
3762048.92       14.18906  (16101918)
        439302.35   3762048.92       15.04263  (16101918)                439352.35
3762048.92       15.78706  (16101918)
        439402.35   3762048.92       16.59604  (13101522)                439452.35
3762048.92       17.62502  (13101522)
        439502.35   3762048.92       18.76512  (14043002)                439552.35
3762048.92       20.15994  (14042901)
        439616.61   3761420.65       13.17172  (14100421)                439666.61
3761420.65       13.63527  (13101419)
        439716.61   3761420.65       13.64366  (13022722)                439766.61
3761420.65       14.31350  (14050102)
        439816.61   3761420.65       14.22815  (13050220)                439866.61
3761420.65       14.55724  (16092606)
        439616.61   3761470.65       13.74126  (16092523)                439666.61
3761470.65       14.26653  (13101419)
        439716.61   3761470.65       14.54701  (13101419)                439766.61
3761470.65       15.03899  (14050102)
        439816.61   3761470.65       15.21042  (14050102)                439866.61
3761470.65       15.47956  (16092606)
        439616.61   3761520.65       14.44631  (16092523)                439666.61
3761520.65       14.92984  (14100421)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:10:54

                                    PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                   L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                   L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                   L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        439716.61   3761520.65       15.47721  (13101419)              439766.61
3761520.65       15.79419  (14050102)
        439816.61   3761520.65       16.30691  (14050102)              439866.61
3761520.65       16.48596  (16092606)
        439616.61   3761570.65       15.42573  (13101517)              439666.61
3761570.65       15.67552  (16092523)
        439716.61   3761570.65       16.38933  (13101419)              439766.61
3761570.65       16.67583  (13101419)
        439816.61   3761570.65       17.46440  (14050102)              439866.61
3761570.65       17.54448  (16092606)
        440451.14   3762893.83       60.24776  (13041207)              440501.14
3762893.83       49.71920  (13041207)
        440551.14   3762893.83       38.56129  (15062719)              440601.14
3762893.83       33.09905  (15062719)
        440651.14   3762893.83       29.04584  (15091021)              440701.14
3762893.83       25.93050  (15091021)
        440751.14   3762893.83       23.59236  (15091021)              440801.14
3762893.83       21.71458  (15091021)
        440851.14   3762893.83       20.17226  (13090620)              440451.14
3762943.83       50.25773  (12082820)
        440501.14   3762943.83       42.82720  (15070606)              440551.14
3762943.83       36.94958  (16061306)
        440601.14   3762943.83       32.27900  (16061306)              440651.14
3762943.83       28.75186  (16102617)
        440701.14   3762943.83       26.11909  (15092020)              440751.14
3762943.83       23.99698  (15062719)
        440801.14   3762943.83       22.26102  (15062719)              440851.14
3762943.83       20.83293  (15062719)
        441116.67   3763135.31       15.88267  (12092321)              441166.67
3763135.31       15.02947  (12092321)
        441116.67   3763185.31       16.12688  (14051521)              441166.67
3763185.31       15.06041  (15011617)
        441116.67   3763235.31       16.18751  (14051521)              441166.67
3763235.31       15.31924  (14051521)
        441116.67   3763285.31       17.54462  (15120817)              441166.67
3763285.31       15.94780  (14051521)
        441116.67   3763335.31       17.89239  (15082522)              441166.67
3763335.31       16.72885  (13090101)
        441116.67   3763385.31       17.72738  (15082522)              441166.67
3763385.31       17.15700  (15082522)
        441116.67   3763435.31       17.74659  (14080123)              441166.67
3763435.31       16.97996  (15071801)
        440433.43   3762815.13       72.29720  (13041207)              440483.43
3762815.13       55.08806  (15101304)
        440533.43   3762815.13       44.83909  (16051606)              440583.43
3762815.13       37.45005  (12102517)
        440633.43   3762815.13       32.29427  (12102517)              440683.43
3762815.13       28.33832  (12102517)
        440733.43   3762815.13       25.16102  (12102517)              440783.43
3762815.13       22.83573  (12102517)
        440833.43   3762815.13       20.67193  (12102517)              440883.43
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3762815.13       19.11100  (12102517)
        440933.43   3762815.13       17.90068  (12102517)                440983.43
3762815.13       16.74403  (12102517)
        440433.43   3762865.13       79.55322  (13041207)                440483.43
3762865.13       56.15444  (13041207)
        440533.43   3762865.13       42.14048  (15091021)                440583.43
3762865.13       35.82960  (13090620)
        440633.43   3762865.13       31.07201  (13083023)                440683.43
3762865.13       27.40640  (13083023)
        440733.43   3762865.13       24.54140  (13083023)                440783.43
3762865.13       22.35266  (13083023)
        440833.43   3762865.13       20.61780  (13083023)                440883.43
3762865.13       19.17469  (15101304)
        440933.43   3762865.13       17.87797  (12092319)                440983.43
3762865.13       16.75850  (12093019)
        441118.27   3762686.02       14.08696  (15082521)                441168.27
3762686.02       13.41687  (15082521)
        441118.27   3762736.02       14.21914  (15082521)                441168.27
3762736.02       13.56901  (15082521)
        441118.27   3762786.02       14.27700  (13083022)                441168.27
3762786.02       13.56126  (13083022)
        441118.27   3762836.02       14.34950  (14100319)                441168.27
3762836.02       13.61379  (14100319)
        440411.67   3762093.41       21.18782  (15081621)                440461.67
3762093.41       20.17062  (15012217)
        440511.67   3762093.41       19.37418  (12012517)                440561.67
3762093.41       18.25993  (16021220)
        440611.67   3762093.41       17.49022  (13012317)                440411.67
3762143.41       22.17330  (15012217)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:10:54

                                    PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0012004    , L0012005
, L0012006    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	21.54031	(15012217)	440511.67	3762143.41	20.54411	(12012517)
440561.67	3762143.41	19.33861	(15071919)	440611.67	3762143.41	18.61627	(13012317)
440406.61	3762008.86	20.43551	(13012317)	440456.61	3762008.86	18.93106	(13012317)
440506.61	3762008.86	17.93876	(12012517)	440556.61	3762008.86	16.99634	(12012517)
440606.61	3762008.86	16.24512	(15071919)	440656.61	3762008.86	15.65476	(13012317)
440706.61	3762008.86	15.12230	(13012317)	440756.61	3762008.86	14.40729	(15091323)
440806.61	3762008.86	13.88482	(12012417)	440856.61	3762008.86	13.36980	(16081621)
440906.61	3762008.86	12.94452	(12092121)	440956.61	3762008.86	12.45243	(15080521)
441006.61	3762008.86	11.95089	(15080521)	441056.61	3762008.86	11.51516	(16083020)
441106.61	3762008.86	11.14164	(16062022)	441156.61	3762008.86	10.75214	(15091122)
440406.61	3762058.86	21.10332	(13012317)	440456.61	3762058.86	19.53994	(15012217)
440506.61	3762058.86	18.75669	(12012517)	440556.61	3762058.86	17.67581	(12012517)
440606.61	3762058.86	16.98174	(15071919)	440656.61	3762058.86	16.41100	(13012317)
440706.61	3762058.86	15.70781	(13012317)	440756.61	3762058.86	15.06641	(12012417)
440806.61	3762058.86	14.42636	(16081621)	440856.61	3762058.86	13.86658	(12092121)
440906.61	3762058.86	13.32634	(15080521)	440956.61	3762058.86	12.76063	(15080521)
441006.61	3762058.86	12.27883	(16083020)	441056.61	3762058.86	11.84619	(16062022)
441106.61	3762058.86	11.40378	(15091122)	441156.61	3762058.86	10.97532	(15091122)
440191.38	3762138.44	40.94508	(12012517)	440241.38	3762138.44	33.34885	(12012517)
440291.38	3762138.44	28.50402	(13012317)	440341.38	3762138.44	25.03350	(15081621)
440191.38	3762188.44	54.97835	(12122516)	440241.38	3762188.44	39.00816	(12122516)
440291.38	3762188.44	30.30982	(13012317)	440341.38	3762188.44	26.47062	(16081621)

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
P1ONIDLE	1ST HIGHEST VALUE IS	17.34975	AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC	
	2ND HIGHEST VALUE IS	17.21180	AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	
	3RD HIGHEST VALUE IS	12.88361	AT (440483.43, 3762815.13, 219.43, 219.43, 0.00)	DC	
	4TH HIGHEST VALUE IS	12.79993	AT (440433.43, 3762865.13, 220.29, 220.29, 0.00)	DC	
	5TH HIGHEST VALUE IS	12.19469	AT (440191.38, 3762188.44, 212.58, 212.58, 0.00)	DC	
	6TH HIGHEST VALUE IS	12.18977	AT (440241.38, 3762238.44, 212.37, 212.37, 0.00)	DC	
	7TH HIGHEST VALUE IS	10.57708	AT (440483.43, 3762865.13, 220.09, 220.09, 0.00)	DC	
	8TH HIGHEST VALUE IS	10.42350	AT (439873.31, 3762470.54, 214.70, 214.70, 0.00)	DC	
	9TH HIGHEST VALUE IS	10.40293	AT (439873.31, 3762670.54, 217.06, 217.06, 0.00)	DC	
	10TH HIGHEST VALUE IS	10.38143	AT (439873.31, 3762620.54, 216.53, 216.53, 0.00)	DC	
ALL	1ST HIGHEST VALUE IS	17.34975	AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC	
	2ND HIGHEST VALUE IS	17.21180	AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	

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         3RD HIGHEST VALUE IS      12.88361 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
         4TH HIGHEST VALUE IS      12.79993 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
         5TH HIGHEST VALUE IS      12.19469 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
         6TH HIGHEST VALUE IS      12.18977 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
         7TH HIGHEST VALUE IS      10.57708 AT (  440483.43,  3762865.13,   220.09,
  220.09,    0.00)  DC
         8TH HIGHEST VALUE IS      10.42350 AT (  439873.31,  3762470.54,   214.70,
  214.70,    0.00)  DC
         9TH HIGHEST VALUE IS      10.40293 AT (  439873.31,  3762670.54,   217.06,
  217.06,    0.00)  DC
        10TH HIGHEST VALUE IS      10.38143 AT (  439873.31,  3762620.54,   216.53,
  216.53,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid_Phase 1 Operations_Mitigated
IDLE Group               ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:10:54

                                  PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
              **

                                                      DATE
                                          NETWORK
GROUP ID                           AVERAGE CONC     (YYMMDDHH)             RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -

P1ONIDLE HIGH   1ST HIGH VALUE IS      79.55322  ON 13041207: AT (  440433.43,
3762865.13,   220.29,   220.29,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS      79.55322  ON 13041207: AT (  440433.43,
3762865.13,   220.29,   220.29,    0.00)  DC
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

 --------- Summary of Total Messages --------

A Total of   0 Fatal Error Message(s)
A Total of   2 Warning Message(s)
A Total of   1279 Informational Message(s)

A Total of   43848 Hours Were Processed

A Total of   917 Calm Hours Identified

A Total of   362 Missing Hours Identified (0.83 Percent)

   ******** FATAL ERROR MESSAGES ********
              *** NONE ***

   ********   WARNING MESSAGES   ********
ME W186   386   MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187   386   MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET

   ****
   *** AERMOD Finishes Successfully ***
   ****

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/3/2023
** File: C:\Lakes\OntarioEuclid_Phase2Ops\OntarioEuclid_Phase2Ops.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid Phase2Ops
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_Phase2Ops.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE19
** DESCRSRC Schaefer btwn Euclid & Sultana
** PREFIX
** Length of Side = 13.00
** Configuration = Adjacent
** Emission Rate = 0.241208936
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439910.981, 3762880.968, 220.43, 3.11, 6.05
** 440369.873, 3762879.519, 221.00, 3.11, 6.05
** ------------------------------------------------------------------------
   LOCATION L0012702     VOLUME   439917.481 3762880.948 220.41
   LOCATION L0012703     VOLUME   439930.481 3762880.907 220.52
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   LOCATION L0012704     VOLUME   439943.481 3762880.866 220.58
   LOCATION L0012705     VOLUME   439956.481 3762880.825 220.56
   LOCATION L0012706     VOLUME   439969.481 3762880.783 220.56
   LOCATION L0012707     VOLUME   439982.481 3762880.742 220.59
   LOCATION L0012708     VOLUME   439995.481 3762880.701 220.60
   LOCATION L0012709     VOLUME   440008.481 3762880.660 220.58
   LOCATION L0012710     VOLUME   440021.481 3762880.619 220.54
   LOCATION L0012711     VOLUME   440034.480 3762880.578 220.49
   LOCATION L0012712     VOLUME   440047.480 3762880.537 220.47
   LOCATION L0012713     VOLUME   440060.480 3762880.496 220.50
   LOCATION L0012714     VOLUME   440073.480 3762880.455 220.56
   LOCATION L0012715     VOLUME   440086.480 3762880.414 220.65
   LOCATION L0012716     VOLUME   440099.480 3762880.373 220.72
   LOCATION L0012717     VOLUME   440112.480 3762880.332 220.77
   LOCATION L0012718     VOLUME   440125.480 3762880.291 220.82
   LOCATION L0012719     VOLUME   440138.480 3762880.250 220.87
   LOCATION L0012720     VOLUME   440151.480 3762880.209 220.92
   LOCATION L0012721     VOLUME   440164.480 3762880.168 220.97
   LOCATION L0012722     VOLUME   440177.480 3762880.127 221.00
   LOCATION L0012723     VOLUME   440190.480 3762880.086 221.02
   LOCATION L0012724     VOLUME   440203.480 3762880.045 221.04
   LOCATION L0012725     VOLUME   440216.480 3762880.003 221.05
   LOCATION L0012726     VOLUME   440229.479 3762879.962 221.06
   LOCATION L0012727     VOLUME   440242.479 3762879.921 221.08
   LOCATION L0012728     VOLUME   440255.479 3762879.880 221.11
   LOCATION L0012729     VOLUME   440268.479 3762879.839 221.15
   LOCATION L0012730     VOLUME   440281.479 3762879.798 221.17
   LOCATION L0012731     VOLUME   440294.479 3762879.757 221.19
   LOCATION L0012732     VOLUME   440307.479 3762879.716 221.19
   LOCATION L0012733     VOLUME   440320.479 3762879.675 221.19
   LOCATION L0012734     VOLUME   440333.479 3762879.634 221.19
   LOCATION L0012735     VOLUME   440346.479 3762879.593 221.19
   LOCATION L0012736     VOLUME   440359.479 3762879.552 221.08
** End of LINE VOLUME Source ID = SLINE19
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE20
** DESCRSRC Sultana btwn Schaefer & Edison
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.384417265
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440370.861, 3762872.001, 220.82, 3.11, 5.58
** 440388.866, 3762079.941, 211.66, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013442     VOLUME   440370.997 3762866.003 220.76
   LOCATION L0013443     VOLUME   440371.270 3762854.006 220.57
   LOCATION L0013444     VOLUME   440371.543 3762842.009 220.42
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LOCATION L0013445 VOLUME 440371.815 3762830.012 220.28
LOCATION L0013446 VOLUME 440372.088 3762818.015 220.15
LOCATION L0013447 VOLUME 440372.361 3762806.018 220.02
LOCATION L0013448 VOLUME 440372.633 3762794.021 219.89
LOCATION L0013449 VOLUME 440372.906 3762782.025 219.76
LOCATION L0013450 VOLUME 440373.179 3762770.028 219.63
LOCATION L0013451 VOLUME 440373.452 3762758.031 219.50
LOCATION L0013452 VOLUME 440373.724 3762746.034 219.38
LOCATION L0013453 VOLUME 440373.997 3762734.037 219.25
LOCATION L0013454 VOLUME 440374.270 3762722.040 219.11
LOCATION L0013455 VOLUME 440374.542 3762710.043 218.97
LOCATION L0013456 VOLUME 440374.815 3762698.046 218.83
LOCATION L0013457 VOLUME 440375.088 3762686.049 218.74
LOCATION L0013458 VOLUME 440375.361 3762674.052 218.65
LOCATION L0013459 VOLUME 440375.633 3762662.056 218.55
LOCATION L0013460 VOLUME 440375.906 3762650.059 218.44
LOCATION L0013461 VOLUME 440376.179 3762638.062 218.33
LOCATION L0013462 VOLUME 440376.452 3762626.065 218.22
LOCATION L0013463 VOLUME 440376.724 3762614.068 218.10
LOCATION L0013464 VOLUME 440376.997 3762602.071 217.95
LOCATION L0013465 VOLUME 440377.270 3762590.074 217.76
LOCATION L0013466 VOLUME 440377.542 3762578.077 217.56
LOCATION L0013467 VOLUME 440377.815 3762566.080 217.44
LOCATION L0013468 VOLUME 440378.088 3762554.083 217.34
LOCATION L0013469 VOLUME 440378.361 3762542.087 217.29
LOCATION L0013470 VOLUME 440378.633 3762530.090 217.43
LOCATION L0013471 VOLUME 440378.906 3762518.093 217.57
LOCATION L0013472 VOLUME 440379.179 3762506.096 217.58
LOCATION L0013473 VOLUME 440379.451 3762494.099 217.51
LOCATION L0013474 VOLUME 440379.724 3762482.102 217.42
LOCATION L0013475 VOLUME 440379.997 3762470.105 216.81
LOCATION L0013476 VOLUME 440380.270 3762458.108 216.22
LOCATION L0013477 VOLUME 440380.542 3762446.111 215.82
LOCATION L0013478 VOLUME 440380.815 3762434.114 215.62
LOCATION L0013479 VOLUME 440381.088 3762422.118 215.42
LOCATION L0013480 VOLUME 440381.361 3762410.121 215.24
LOCATION L0013481 VOLUME 440381.633 3762398.124 215.06
LOCATION L0013482 VOLUME 440381.906 3762386.127 214.90
LOCATION L0013483 VOLUME 440382.179 3762374.130 214.81
LOCATION L0013484 VOLUME 440382.451 3762362.133 214.71
LOCATION L0013485 VOLUME 440382.724 3762350.136 214.62
LOCATION L0013486 VOLUME 440382.997 3762338.139 214.54
LOCATION L0013487 VOLUME 440383.270 3762326.142 214.43
LOCATION L0013488 VOLUME 440383.542 3762314.145 214.25
LOCATION L0013489 VOLUME 440383.815 3762302.149 214.06
LOCATION L0013490 VOLUME 440384.088 3762290.152 213.89
LOCATION L0013491 VOLUME 440384.361 3762278.155 213.72
LOCATION L0013492 VOLUME 440384.633 3762266.158 213.56
LOCATION L0013493 VOLUME 440384.906 3762254.161 213.46
LOCATION L0013494 VOLUME 440385.179 3762242.164 213.37
LOCATION L0013495 VOLUME 440385.451 3762230.167 213.29

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   LOCATION L0013496     VOLUME   440385.724 3762218.170 213.22
   LOCATION L0013497     VOLUME   440385.997 3762206.173 213.15
   LOCATION L0013498     VOLUME   440386.270 3762194.176 213.06
   LOCATION L0013499     VOLUME   440386.542 3762182.180 212.97
   LOCATION L0013500     VOLUME   440386.815 3762170.183 212.86
   LOCATION L0013501     VOLUME   440387.088 3762158.186 212.71
   LOCATION L0013502     VOLUME   440387.360 3762146.189 212.56
   LOCATION L0013503     VOLUME   440387.633 3762134.192 212.36
   LOCATION L0013504     VOLUME   440387.906 3762122.195 212.14
   LOCATION L0013505     VOLUME   440388.179 3762110.198 211.95
   LOCATION L0013506     VOLUME   440388.451 3762098.201 211.82
   LOCATION L0013507     VOLUME   440388.724 3762086.204 211.69
** End of LINE VOLUME Source ID = SLINE20
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE22
** DESCRSRC Edison e/o Sultana
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.3743738
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440393.829, 3762073.840, 211.58, 3.11, 5.58
** 441165.394, 3762075.321, 211.37, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013508     VOLUME   440399.829 3762073.852 211.57
   LOCATION L0013509     VOLUME   440411.829 3762073.875 211.57
   LOCATION L0013510     VOLUME   440423.829 3762073.898 211.57
   LOCATION L0013511     VOLUME   440435.829 3762073.921 211.53
   LOCATION L0013512     VOLUME   440447.829 3762073.944 211.50
   LOCATION L0013513     VOLUME   440459.829 3762073.967 211.48
   LOCATION L0013514     VOLUME   440471.829 3762073.990 211.45
   LOCATION L0013515     VOLUME   440483.829 3762074.013 211.48
   LOCATION L0013516     VOLUME   440495.829 3762074.036 211.52
   LOCATION L0013517     VOLUME   440507.829 3762074.059 211.54
   LOCATION L0013518     VOLUME   440519.829 3762074.082 211.56
   LOCATION L0013519     VOLUME   440531.829 3762074.105 211.57
   LOCATION L0013520     VOLUME   440543.829 3762074.128 211.57
   LOCATION L0013521     VOLUME   440555.829 3762074.151 211.58
   LOCATION L0013522     VOLUME   440567.829 3762074.174 211.59
   LOCATION L0013523     VOLUME   440579.829 3762074.197 211.57
   LOCATION L0013524     VOLUME   440591.829 3762074.220 211.51
   LOCATION L0013525     VOLUME   440603.829 3762074.243 211.46
   LOCATION L0013526     VOLUME   440615.829 3762074.266 211.47
   LOCATION L0013527     VOLUME   440627.829 3762074.289 211.49
   LOCATION L0013528     VOLUME   440639.829 3762074.312 211.58
   LOCATION L0013529     VOLUME   440651.829 3762074.335 211.67
   LOCATION L0013530     VOLUME   440663.829 3762074.358 211.77
   LOCATION L0013531     VOLUME   440675.829 3762074.381 211.87
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   LOCATION L0013532     VOLUME   440687.829 3762074.404 211.92
   LOCATION L0013533     VOLUME   440699.829 3762074.428 211.97
   LOCATION L0013534     VOLUME   440711.829 3762074.451 212.00
   LOCATION L0013535     VOLUME   440723.829 3762074.474 212.02
   LOCATION L0013536     VOLUME   440735.829 3762074.497 212.05
   LOCATION L0013537     VOLUME   440747.829 3762074.520 212.08
   LOCATION L0013538     VOLUME   440759.829 3762074.543 212.09
   LOCATION L0013539     VOLUME   440771.829 3762074.566 212.08
   LOCATION L0013540     VOLUME   440783.829 3762074.589 212.04
   LOCATION L0013541     VOLUME   440795.829 3762074.612 211.93
   LOCATION L0013542     VOLUME   440807.829 3762074.635 211.84
   LOCATION L0013543     VOLUME   440819.829 3762074.658 211.79
   LOCATION L0013544     VOLUME   440831.829 3762074.681 211.75
   LOCATION L0013545     VOLUME   440843.829 3762074.704 211.78
   LOCATION L0013546     VOLUME   440855.829 3762074.727 211.81
   LOCATION L0013547     VOLUME   440867.829 3762074.750 211.87
   LOCATION L0013548     VOLUME   440879.829 3762074.773 211.94
   LOCATION L0013549     VOLUME   440891.828 3762074.796 211.94
   LOCATION L0013550     VOLUME   440903.828 3762074.819 211.91
   LOCATION L0013551     VOLUME   440915.828 3762074.842 211.92
   LOCATION L0013552     VOLUME   440927.828 3762074.865 211.93
   LOCATION L0013553     VOLUME   440939.828 3762074.888 211.92
   LOCATION L0013554     VOLUME   440951.828 3762074.911 211.89
   LOCATION L0013555     VOLUME   440963.828 3762074.934 211.87
   LOCATION L0013556     VOLUME   440975.828 3762074.957 211.85
   LOCATION L0013557     VOLUME   440987.828 3762074.980 211.82
   LOCATION L0013558     VOLUME   440999.828 3762075.003 211.72
   LOCATION L0013559     VOLUME   441011.828 3762075.026 211.63
   LOCATION L0013560     VOLUME   441023.828 3762075.049 211.60
   LOCATION L0013561     VOLUME   441035.828 3762075.072 211.57
   LOCATION L0013562     VOLUME   441047.828 3762075.095 211.56
   LOCATION L0013563     VOLUME   441059.828 3762075.118 211.56
   LOCATION L0013564     VOLUME   441071.828 3762075.142 211.52
   LOCATION L0013565     VOLUME   441083.828 3762075.165 211.48
   LOCATION L0013566     VOLUME   441095.828 3762075.188 211.41
   LOCATION L0013567     VOLUME   441107.828 3762075.211 211.32
   LOCATION L0013568     VOLUME   441119.828 3762075.234 211.29
   LOCATION L0013569     VOLUME   441131.828 3762075.257 211.30
   LOCATION L0013570     VOLUME   441143.828 3762075.280 211.31
   LOCATION L0013571     VOLUME   441155.828 3762075.303 211.33
** End of LINE VOLUME Source ID = SLINE22
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC Onsite Driveway 15
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
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** Nodes = 5
** 440245.868, 3762473.161, 216.43, 3.11, 5.58
** 440247.108, 3762331.785, 213.64, 3.11, 5.58
** 440275.011, 3762331.785, 214.40, 3.11, 5.58
** 440274.391, 3762401.853, 214.97, 3.11, 5.58
** 440374.222, 3762403.713, 215.22, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013572     VOLUME   440245.920 3762467.161 216.26
   LOCATION L0013573     VOLUME   440246.026 3762455.161 215.84
   LOCATION L0013574     VOLUME   440246.131 3762443.162 215.48
   LOCATION L0013575     VOLUME   440246.236 3762431.162 215.15
   LOCATION L0013576     VOLUME   440246.341 3762419.163 214.84
   LOCATION L0013577     VOLUME   440246.447 3762407.163 214.62
   LOCATION L0013578     VOLUME   440246.552 3762395.164 214.41
   LOCATION L0013579     VOLUME   440246.657 3762383.164 214.26
   LOCATION L0013580     VOLUME   440246.763 3762371.165 214.16
   LOCATION L0013581     VOLUME   440246.868 3762359.165 214.05
   LOCATION L0013582     VOLUME   440246.973 3762347.165 213.92
   LOCATION L0013583     VOLUME   440247.078 3762335.166 213.78
   LOCATION L0013584     VOLUME   440255.727 3762331.785 213.97
   LOCATION L0013585     VOLUME   440267.727 3762331.785 214.30
   LOCATION L0013586     VOLUME   440274.969 3762336.501 214.51
   LOCATION L0013587     VOLUME   440274.863 3762348.501 214.61
   LOCATION L0013588     VOLUME   440274.757 3762360.500 214.71
   LOCATION L0013589     VOLUME   440274.651 3762372.500 214.78
   LOCATION L0013590     VOLUME   440274.545 3762384.499 214.86
   LOCATION L0013591     VOLUME   440274.438 3762396.499 214.95
   LOCATION L0013592     VOLUME   440281.036 3762401.977 215.04
   LOCATION L0013593     VOLUME   440293.033 3762402.200 215.13
   LOCATION L0013594     VOLUME   440305.031 3762402.424 215.12
   LOCATION L0013595     VOLUME   440317.029 3762402.647 215.09
   LOCATION L0013596     VOLUME   440329.027 3762402.871 215.09
   LOCATION L0013597     VOLUME   440341.025 3762403.094 215.10
   LOCATION L0013598     VOLUME   440353.023 3762403.318 215.13
   LOCATION L0013599     VOLUME   440365.021 3762403.542 215.17
** End of LINE VOLUME Source ID = SLINE40
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC PA 2 Idling
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 2
** 440261.990, 3762476.881, 217.47, 3.66, 5.58
** 440259.509, 3762341.086, 214.24, 3.66, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013628     VOLUME   440261.880 3762470.882 216.82
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   LOCATION L0013629     VOLUME   440261.661 3762458.884 216.16
   LOCATION L0013630     VOLUME   440261.442 3762446.886 215.67
   LOCATION L0013631     VOLUME   440261.223 3762434.888 215.38
   LOCATION L0013632     VOLUME   440261.003 3762422.890 215.08
   LOCATION L0013633     VOLUME   440260.784 3762410.892 214.92
   LOCATION L0013634     VOLUME   440260.565 3762398.894 214.76
   LOCATION L0013635     VOLUME   440260.346 3762386.896 214.62
   LOCATION L0013636     VOLUME   440260.127 3762374.898 214.52
   LOCATION L0013637     VOLUME   440259.908 3762362.900 214.42
   LOCATION L0013638     VOLUME   440259.689 3762350.902 214.29
** End of LINE VOLUME Source ID = SLINE41
   LOCATION PAREA4       AREAPOLY   440194.402  3762471.300      216.050
** DESCRSRC Generator P2
** Source Parameters **
** LINE VOLUME Source ID = SLINE19
   SRCPARAM L0012702     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012703     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012704     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012705     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012706     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012707     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012708     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012709     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012710     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012711     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012712     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012713     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012714     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012715     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012716     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012717     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012718     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012719     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012720     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012721     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012722     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012723     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012724     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012725     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012726     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012727     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012728     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012729     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012730     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012731     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012732     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012733     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012734     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012735     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012736     0.0068916839      3.11      6.05      2.89
** ----------------------------------------------------------------------
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** LINE VOLUME Source ID = SLINE20
   SRCPARAM L0013442     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013443     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013444     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013445     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013446     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013447     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013448     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013449     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013450     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013451     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013452     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013453     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013454     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013455     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013456     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013457     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013458     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013459     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013460     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013461     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013462     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013463     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013464     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013465     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013466     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013467     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013468     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013469     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013470     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013471     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013472     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013473     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013474     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013475     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013476     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013477     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013478     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013479     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013480     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013481     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013482     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013483     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013484     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013485     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013486     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013487     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013488     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013489     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013490     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013491     0.005824504      3.11      5.58      2.89
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   SRCPARAM L0013492     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013493     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013494     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013495     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013496     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013497     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013498     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013499     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013500     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013501     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013502     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013503     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013504     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013505     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013506     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013507     0.005824504      3.11      5.58      2.89
** ----------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE22
   SRCPARAM L0013508     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013509     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013510     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013511     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013512     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013513     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013514     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013515     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013516     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013517     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013518     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013519     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013520     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013521     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013522     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013523     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013524     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013525     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013526     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013527     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013528     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013529     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013530     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013531     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013532     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013533     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013534     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013535     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013536     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013537     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013538     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013539     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013540     0.0058495906      3.11      5.58      2.89
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   SRCPARAM L0013541     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013542     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013543     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013544     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013545     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013546     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013547     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013548     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013549     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013550     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013551     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013552     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013553     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013554     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013555     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013556     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013557     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013558     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013559     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013560     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013561     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013562     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013563     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013564     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013565     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013566     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013567     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013568     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013569     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013570     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013571     0.0058495906      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE40
   SRCPARAM L0013572     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013573     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013574     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013575     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013576     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013577     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013578     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013579     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013580     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013581     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013582     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013583     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013584     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013585     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013586     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013587     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013588     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013589     0.0357142857      3.11      5.58      2.89
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   SRCPARAM L0013590     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013591     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013592     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013593     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013594     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013595     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013596     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013597     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013598     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013599     0.0357142857      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE41
   SRCPARAM L0013628     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013629     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013630     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013631     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013632     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013633     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013634     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013635     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013636     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013637     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013638     0.0909090909      3.66      5.58      3.40
** ------------------------------------------------------------------
   SRCPARAM PAREA4       0.000049824     5.000         5
   AREAVERT PAREA4       440194.402 3762471.300 440340.118 3762473.161
   AREAVERT PAREA4       440342.598 3762333.645 440201.843 3762331.165
   AREAVERT PAREA4       440193.782 3762474.401
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   SRCGROUP P2ONSITE L0013578 L0013579 L0013580 L0013581 L0013582 L0013583
   SRCGROUP P2ONSITE L0013584 L0013585 L0013586 L0013587 L0013588 L0013589
   SRCGROUP P2ONSITE L0013590 L0013591 L0013592 L0013593 L0013594 L0013595
   SRCGROUP P2ONSITE L0013596 L0013597 L0013598 L0013599
   SRCGROUP P2IDLE   L0013628 L0013629 L0013630 L0013631 L0013632 L0013633
   SRCGROUP P2IDLE   L0013634 L0013635 L0013636 L0013637 L0013638
   SRCGROUP P2OFFSIT L0012702 L0012703 L0012704 L0012705 L0012706 L0012707
   SRCGROUP P2OFFSIT L0012708 L0012709 L0012710 L0012711 L0012712 L0012713
   SRCGROUP P2OFFSIT L0012714 L0012715 L0012716 L0012717 L0012718 L0012719
   SRCGROUP P2OFFSIT L0012720 L0012721 L0012722 L0012723 L0012724 L0012725
   SRCGROUP P2OFFSIT L0012726 L0012727 L0012728 L0012729 L0012730 L0012731
   SRCGROUP P2OFFSIT L0012732 L0012733 L0012734 L0012735 L0012736 L0013442
   SRCGROUP P2OFFSIT L0013443 L0013444 L0013445 L0013446 L0013447 L0013448
   SRCGROUP P2OFFSIT L0013449 L0013450 L0013451 L0013452 L0013453 L0013454
   SRCGROUP P2OFFSIT L0013455 L0013456 L0013457 L0013458 L0013459 L0013460
   SRCGROUP P2OFFSIT L0013461 L0013462 L0013463 L0013464 L0013465 L0013466
   SRCGROUP P2OFFSIT L0013467 L0013468 L0013469 L0013470 L0013471 L0013472
   SRCGROUP P2OFFSIT L0013473 L0013474 L0013475 L0013476 L0013477 L0013478
   SRCGROUP P2OFFSIT L0013479 L0013480 L0013481 L0013482 L0013483 L0013484
   SRCGROUP P2OFFSIT L0013485 L0013486 L0013487 L0013488 L0013489 L0013490
   SRCGROUP P2OFFSIT L0013491 L0013492 L0013493 L0013494 L0013495 L0013496
   SRCGROUP P2OFFSIT L0013497 L0013498 L0013499 L0013500 L0013501 L0013502
   SRCGROUP P2OFFSIT L0013503 L0013504 L0013505 L0013506 L0013507 L0013508
   SRCGROUP P2OFFSIT L0013509 L0013510 L0013511 L0013512 L0013513 L0013514
   SRCGROUP P2OFFSIT L0013515 L0013516 L0013517 L0013518 L0013519 L0013520
   SRCGROUP P2OFFSIT L0013521 L0013522 L0013523 L0013524 L0013525 L0013526
   SRCGROUP P2OFFSIT L0013527 L0013528 L0013529 L0013530 L0013531 L0013532
   SRCGROUP P2OFFSIT L0013533 L0013534 L0013535 L0013536 L0013537 L0013538
   SRCGROUP P2OFFSIT L0013539 L0013540 L0013541 L0013542 L0013543 L0013544
   SRCGROUP P2OFFSIT L0013545 L0013546 L0013547 L0013548 L0013549 L0013550
   SRCGROUP P2OFFSIT L0013551 L0013552 L0013553 L0013554 L0013555 L0013556
   SRCGROUP P2OFFSIT L0013557 L0013558 L0013559 L0013560 L0013561 L0013562
   SRCGROUP P2OFFSIT L0013563 L0013564 L0013565 L0013566 L0013567 L0013568
   SRCGROUP P2OFFSIT L0013569 L0013570 L0013571
   SRCGROUP P2GEN    PAREA4
   SRCGROUP ALL
SO FINISHED
**
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** AERMOD Receptor Pathway
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**
RE STARTING
   INCLUDED OntarioEuclid_Phase2Ops.rou
RE FINISHED
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** AERMOD Meteorology Pathway
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**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
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** AERMOD Output Pathway
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**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1GALL.PLT 31
   PLOTFILE 1 P2ONSITE 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1G001.PLT 32
   PLOTFILE 1 P2IDLE 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1G002.PLT 33
   PLOTFILE 1 P2OFFSIT 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1G003.PLT 34
   PLOTFILE 1 P2GEN 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1G004.PLT 35
   PLOTFILE PERIOD ALL ONTARIOEUCLID_PHASE2OPS.AD\PE00GALL.PLT 36
   PLOTFILE PERIOD P2ONSITE ONTARIOEUCLID_PHASE2OPS.AD\PE00G001.PLT 37
   PLOTFILE PERIOD P2IDLE ONTARIOEUCLID_PHASE2OPS.AD\PE00G002.PLT 38
   PLOTFILE PERIOD P2OFFSIT ONTARIOEUCLID_PHASE2OPS.AD\PE00G003.PLT 39
   PLOTFILE PERIOD P2GEN ONTARIOEUCLID_PHASE2OPS.AD\PE00G004.PLT 40
   SUMMFILE OntarioEuclid_Phase2Ops.sum
OU FINISHED
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** Project Parameters
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** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
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** Lakes Environmental AERMOD MPI
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** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/3/2023
** File: C:\Lakes\OntarioEuclid_Phase2Ops\OntarioEuclid_Phase2Ops.ADI
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** AERMOD Control Pathway
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**
**
CO STARTING
   TITLEONE Ontario Euclid Phase2Ops
   MODELOPT DFAULT CONC
   AVERTIME 1 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_Phase2Ops.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE19
** DESCRSRC Schaefer btwn Euclid & Sultana
** PREFIX
** Length of Side = 13.00
** Configuration = Adjacent
** Emission Rate = 0.241208936
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439910.981, 3762880.968, 220.43, 3.11, 6.05
** 440369.873, 3762879.519, 221.00, 3.11, 6.05
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   LOCATION L0012702     VOLUME   439917.481 3762880.948 220.41
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   LOCATION L0012703     VOLUME   439930.481 3762880.907 220.52
   LOCATION L0012704     VOLUME   439943.481 3762880.866 220.58
   LOCATION L0012705     VOLUME   439956.481 3762880.825 220.56
   LOCATION L0012706     VOLUME   439969.481 3762880.783 220.56
   LOCATION L0012707     VOLUME   439982.481 3762880.742 220.59
   LOCATION L0012708     VOLUME   439995.481 3762880.701 220.60
   LOCATION L0012709     VOLUME   440008.481 3762880.660 220.58
   LOCATION L0012710     VOLUME   440021.481 3762880.619 220.54
   LOCATION L0012711     VOLUME   440034.480 3762880.578 220.49
   LOCATION L0012712     VOLUME   440047.480 3762880.537 220.47
   LOCATION L0012713     VOLUME   440060.480 3762880.496 220.50
   LOCATION L0012714     VOLUME   440073.480 3762880.455 220.56
   LOCATION L0012715     VOLUME   440086.480 3762880.414 220.65
   LOCATION L0012716     VOLUME   440099.480 3762880.373 220.72
   LOCATION L0012717     VOLUME   440112.480 3762880.332 220.77
   LOCATION L0012718     VOLUME   440125.480 3762880.291 220.82
   LOCATION L0012719     VOLUME   440138.480 3762880.250 220.87
   LOCATION L0012720     VOLUME   440151.480 3762880.209 220.92
   LOCATION L0012721     VOLUME   440164.480 3762880.168 220.97
   LOCATION L0012722     VOLUME   440177.480 3762880.127 221.00
   LOCATION L0012723     VOLUME   440190.480 3762880.086 221.02
   LOCATION L0012724     VOLUME   440203.480 3762880.045 221.04
   LOCATION L0012725     VOLUME   440216.480 3762880.003 221.05
   LOCATION L0012726     VOLUME   440229.479 3762879.962 221.06
   LOCATION L0012727     VOLUME   440242.479 3762879.921 221.08
   LOCATION L0012728     VOLUME   440255.479 3762879.880 221.11
   LOCATION L0012729     VOLUME   440268.479 3762879.839 221.15
   LOCATION L0012730     VOLUME   440281.479 3762879.798 221.17
   LOCATION L0012731     VOLUME   440294.479 3762879.757 221.19
   LOCATION L0012732     VOLUME   440307.479 3762879.716 221.19
   LOCATION L0012733     VOLUME   440320.479 3762879.675 221.19
   LOCATION L0012734     VOLUME   440333.479 3762879.634 221.19
   LOCATION L0012735     VOLUME   440346.479 3762879.593 221.19
   LOCATION L0012736     VOLUME   440359.479 3762879.552 221.08
** End of LINE VOLUME Source ID = SLINE19
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE20
** DESCRSRC Sultana btwn Schaefer & Edison
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.384417265
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440370.861, 3762872.001, 220.82, 3.11, 5.58
** 440388.866, 3762079.941, 211.66, 3.11, 5.58
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   LOCATION L0013442     VOLUME   440370.997 3762866.003 220.76
   LOCATION L0013443     VOLUME   440371.270 3762854.006 220.57
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LOCATION L0013444 VOLUME 440371.543 3762842.009 220.42
LOCATION L0013445 VOLUME 440371.815 3762830.012 220.28
LOCATION L0013446 VOLUME 440372.088 3762818.015 220.15
LOCATION L0013447 VOLUME 440372.361 3762806.018 220.02
LOCATION L0013448 VOLUME 440372.633 3762794.021 219.89
LOCATION L0013449 VOLUME 440372.906 3762782.025 219.76
LOCATION L0013450 VOLUME 440373.179 3762770.028 219.63
LOCATION L0013451 VOLUME 440373.452 3762758.031 219.50
LOCATION L0013452 VOLUME 440373.724 3762746.034 219.38
LOCATION L0013453 VOLUME 440373.997 3762734.037 219.25
LOCATION L0013454 VOLUME 440374.270 3762722.040 219.11
LOCATION L0013455 VOLUME 440374.542 3762710.043 218.97
LOCATION L0013456 VOLUME 440374.815 3762698.046 218.83
LOCATION L0013457 VOLUME 440375.088 3762686.049 218.74
LOCATION L0013458 VOLUME 440375.361 3762674.052 218.65
LOCATION L0013459 VOLUME 440375.633 3762662.056 218.55
LOCATION L0013460 VOLUME 440375.906 3762650.059 218.44
LOCATION L0013461 VOLUME 440376.179 3762638.062 218.33
LOCATION L0013462 VOLUME 440376.452 3762626.065 218.22
LOCATION L0013463 VOLUME 440376.724 3762614.068 218.10
LOCATION L0013464 VOLUME 440376.997 3762602.071 217.95
LOCATION L0013465 VOLUME 440377.270 3762590.074 217.76
LOCATION L0013466 VOLUME 440377.542 3762578.077 217.56
LOCATION L0013467 VOLUME 440377.815 3762566.080 217.44
LOCATION L0013468 VOLUME 440378.088 3762554.083 217.34
LOCATION L0013469 VOLUME 440378.361 3762542.087 217.29
LOCATION L0013470 VOLUME 440378.633 3762530.090 217.43
LOCATION L0013471 VOLUME 440378.906 3762518.093 217.57
LOCATION L0013472 VOLUME 440379.179 3762506.096 217.58
LOCATION L0013473 VOLUME 440379.451 3762494.099 217.51
LOCATION L0013474 VOLUME 440379.724 3762482.102 217.42
LOCATION L0013475 VOLUME 440379.997 3762470.105 216.81
LOCATION L0013476 VOLUME 440380.270 3762458.108 216.22
LOCATION L0013477 VOLUME 440380.542 3762446.111 215.82
LOCATION L0013478 VOLUME 440380.815 3762434.114 215.62
LOCATION L0013479 VOLUME 440381.088 3762422.118 215.42
LOCATION L0013480 VOLUME 440381.361 3762410.121 215.24
LOCATION L0013481 VOLUME 440381.633 3762398.124 215.06
LOCATION L0013482 VOLUME 440381.906 3762386.127 214.90
LOCATION L0013483 VOLUME 440382.179 3762374.130 214.81
LOCATION L0013484 VOLUME 440382.451 3762362.133 214.71
LOCATION L0013485 VOLUME 440382.724 3762350.136 214.62
LOCATION L0013486 VOLUME 440382.997 3762338.139 214.54
LOCATION L0013487 VOLUME 440383.270 3762326.142 214.43
LOCATION L0013488 VOLUME 440383.542 3762314.145 214.25
LOCATION L0013489 VOLUME 440383.815 3762302.149 214.06
LOCATION L0013490 VOLUME 440384.088 3762290.152 213.89
LOCATION L0013491 VOLUME 440384.361 3762278.155 213.72
LOCATION L0013492 VOLUME 440384.633 3762266.158 213.56
LOCATION L0013493 VOLUME 440384.906 3762254.161 213.46
LOCATION L0013494 VOLUME 440385.179 3762242.164 213.37

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   LOCATION L0013495     VOLUME   440385.451 3762230.167 213.29
   LOCATION L0013496     VOLUME   440385.724 3762218.170 213.22
   LOCATION L0013497     VOLUME   440385.997 3762206.173 213.15
   LOCATION L0013498     VOLUME   440386.270 3762194.176 213.06
   LOCATION L0013499     VOLUME   440386.542 3762182.180 212.97
   LOCATION L0013500     VOLUME   440386.815 3762170.183 212.86
   LOCATION L0013501     VOLUME   440387.088 3762158.186 212.71
   LOCATION L0013502     VOLUME   440387.360 3762146.189 212.56
   LOCATION L0013503     VOLUME   440387.633 3762134.192 212.36
   LOCATION L0013504     VOLUME   440387.906 3762122.195 212.14
   LOCATION L0013505     VOLUME   440388.179 3762110.198 211.95
   LOCATION L0013506     VOLUME   440388.451 3762098.201 211.82
   LOCATION L0013507     VOLUME   440388.724 3762086.204 211.69
** End of LINE VOLUME Source ID = SLINE20
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE22
** DESCRSRC Edison e/o Sultana
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.3743738
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440393.829, 3762073.840, 211.58, 3.11, 5.58
** 441165.394, 3762075.321, 211.37, 3.11, 5.58
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   LOCATION L0013508     VOLUME   440399.829 3762073.852 211.57
   LOCATION L0013509     VOLUME   440411.829 3762073.875 211.57
   LOCATION L0013510     VOLUME   440423.829 3762073.898 211.57
   LOCATION L0013511     VOLUME   440435.829 3762073.921 211.53
   LOCATION L0013512     VOLUME   440447.829 3762073.944 211.50
   LOCATION L0013513     VOLUME   440459.829 3762073.967 211.48
   LOCATION L0013514     VOLUME   440471.829 3762073.990 211.45
   LOCATION L0013515     VOLUME   440483.829 3762074.013 211.48
   LOCATION L0013516     VOLUME   440495.829 3762074.036 211.52
   LOCATION L0013517     VOLUME   440507.829 3762074.059 211.54
   LOCATION L0013518     VOLUME   440519.829 3762074.082 211.56
   LOCATION L0013519     VOLUME   440531.829 3762074.105 211.57
   LOCATION L0013520     VOLUME   440543.829 3762074.128 211.57
   LOCATION L0013521     VOLUME   440555.829 3762074.151 211.58
   LOCATION L0013522     VOLUME   440567.829 3762074.174 211.59
   LOCATION L0013523     VOLUME   440579.829 3762074.197 211.57
   LOCATION L0013524     VOLUME   440591.829 3762074.220 211.51
   LOCATION L0013525     VOLUME   440603.829 3762074.243 211.46
   LOCATION L0013526     VOLUME   440615.829 3762074.266 211.47
   LOCATION L0013527     VOLUME   440627.829 3762074.289 211.49
   LOCATION L0013528     VOLUME   440639.829 3762074.312 211.58
   LOCATION L0013529     VOLUME   440651.829 3762074.335 211.67
   LOCATION L0013530     VOLUME   440663.829 3762074.358 211.77
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   LOCATION L0013531     VOLUME   440675.829 3762074.381 211.87
   LOCATION L0013532     VOLUME   440687.829 3762074.404 211.92
   LOCATION L0013533     VOLUME   440699.829 3762074.428 211.97
   LOCATION L0013534     VOLUME   440711.829 3762074.451 212.00
   LOCATION L0013535     VOLUME   440723.829 3762074.474 212.02
   LOCATION L0013536     VOLUME   440735.829 3762074.497 212.05
   LOCATION L0013537     VOLUME   440747.829 3762074.520 212.08
   LOCATION L0013538     VOLUME   440759.829 3762074.543 212.09
   LOCATION L0013539     VOLUME   440771.829 3762074.566 212.08
   LOCATION L0013540     VOLUME   440783.829 3762074.589 212.04
   LOCATION L0013541     VOLUME   440795.829 3762074.612 211.93
   LOCATION L0013542     VOLUME   440807.829 3762074.635 211.84
   LOCATION L0013543     VOLUME   440819.829 3762074.658 211.79
   LOCATION L0013544     VOLUME   440831.829 3762074.681 211.75
   LOCATION L0013545     VOLUME   440843.829 3762074.704 211.78
   LOCATION L0013546     VOLUME   440855.829 3762074.727 211.81
   LOCATION L0013547     VOLUME   440867.829 3762074.750 211.87
   LOCATION L0013548     VOLUME   440879.829 3762074.773 211.94
   LOCATION L0013549     VOLUME   440891.828 3762074.796 211.94
   LOCATION L0013550     VOLUME   440903.828 3762074.819 211.91
   LOCATION L0013551     VOLUME   440915.828 3762074.842 211.92
   LOCATION L0013552     VOLUME   440927.828 3762074.865 211.93
   LOCATION L0013553     VOLUME   440939.828 3762074.888 211.92
   LOCATION L0013554     VOLUME   440951.828 3762074.911 211.89
   LOCATION L0013555     VOLUME   440963.828 3762074.934 211.87
   LOCATION L0013556     VOLUME   440975.828 3762074.957 211.85
   LOCATION L0013557     VOLUME   440987.828 3762074.980 211.82
   LOCATION L0013558     VOLUME   440999.828 3762075.003 211.72
   LOCATION L0013559     VOLUME   441011.828 3762075.026 211.63
   LOCATION L0013560     VOLUME   441023.828 3762075.049 211.60
   LOCATION L0013561     VOLUME   441035.828 3762075.072 211.57
   LOCATION L0013562     VOLUME   441047.828 3762075.095 211.56
   LOCATION L0013563     VOLUME   441059.828 3762075.118 211.56
   LOCATION L0013564     VOLUME   441071.828 3762075.142 211.52
   LOCATION L0013565     VOLUME   441083.828 3762075.165 211.48
   LOCATION L0013566     VOLUME   441095.828 3762075.188 211.41
   LOCATION L0013567     VOLUME   441107.828 3762075.211 211.32
   LOCATION L0013568     VOLUME   441119.828 3762075.234 211.29
   LOCATION L0013569     VOLUME   441131.828 3762075.257 211.30
   LOCATION L0013570     VOLUME   441143.828 3762075.280 211.31
   LOCATION L0013571     VOLUME   441155.828 3762075.303 211.33
** End of LINE VOLUME Source ID = SLINE22
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC Onsite Driveway 15
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
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** SZINIT = 2.89
** Nodes = 5
** 440245.868, 3762473.161, 216.43, 3.11, 5.58
** 440247.108, 3762331.785, 213.64, 3.11, 5.58
** 440275.011, 3762331.785, 214.40, 3.11, 5.58
** 440274.391, 3762401.853, 214.97, 3.11, 5.58
** 440374.222, 3762403.713, 215.22, 3.11, 5.58
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   LOCATION L0013573     VOLUME   440246.026 3762455.161 215.84
   LOCATION L0013574     VOLUME   440246.131 3762443.162 215.48
   LOCATION L0013575     VOLUME   440246.236 3762431.162 215.15
   LOCATION L0013576     VOLUME   440246.341 3762419.163 214.84
   LOCATION L0013577     VOLUME   440246.447 3762407.163 214.62
   LOCATION L0013578     VOLUME   440246.552 3762395.164 214.41
   LOCATION L0013579     VOLUME   440246.657 3762383.164 214.26
   LOCATION L0013580     VOLUME   440246.763 3762371.165 214.16
   LOCATION L0013581     VOLUME   440246.868 3762359.165 214.05
   LOCATION L0013582     VOLUME   440246.973 3762347.165 213.92
   LOCATION L0013583     VOLUME   440247.078 3762335.166 213.78
   LOCATION L0013584     VOLUME   440255.727 3762331.785 213.97
   LOCATION L0013585     VOLUME   440267.727 3762331.785 214.30
   LOCATION L0013586     VOLUME   440274.969 3762336.501 214.51
   LOCATION L0013587     VOLUME   440274.863 3762348.501 214.61
   LOCATION L0013588     VOLUME   440274.757 3762360.500 214.71
   LOCATION L0013589     VOLUME   440274.651 3762372.500 214.78
   LOCATION L0013590     VOLUME   440274.545 3762384.499 214.86
   LOCATION L0013591     VOLUME   440274.438 3762396.499 214.95
   LOCATION L0013592     VOLUME   440281.036 3762401.977 215.04
   LOCATION L0013593     VOLUME   440293.033 3762402.200 215.13
   LOCATION L0013594     VOLUME   440305.031 3762402.424 215.12
   LOCATION L0013595     VOLUME   440317.029 3762402.647 215.09
   LOCATION L0013596     VOLUME   440329.027 3762402.871 215.09
   LOCATION L0013597     VOLUME   440341.025 3762403.094 215.10
   LOCATION L0013598     VOLUME   440353.023 3762403.318 215.13
   LOCATION L0013599     VOLUME   440365.021 3762403.542 215.17
** End of LINE VOLUME Source ID = SLINE40
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC PA 2 Idling
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 2
** 440261.990, 3762476.881, 217.47, 3.66, 5.58
** 440259.509, 3762341.086, 214.24, 3.66, 5.58
** ----------------------------------------------------------------------
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   LOCATION L0013628     VOLUME   440261.880 3762470.882 216.82
   LOCATION L0013629     VOLUME   440261.661 3762458.884 216.16
   LOCATION L0013630     VOLUME   440261.442 3762446.886 215.67
   LOCATION L0013631     VOLUME   440261.223 3762434.888 215.38
   LOCATION L0013632     VOLUME   440261.003 3762422.890 215.08
   LOCATION L0013633     VOLUME   440260.784 3762410.892 214.92
   LOCATION L0013634     VOLUME   440260.565 3762398.894 214.76
   LOCATION L0013635     VOLUME   440260.346 3762386.896 214.62
   LOCATION L0013636     VOLUME   440260.127 3762374.898 214.52
   LOCATION L0013637     VOLUME   440259.908 3762362.900 214.42
   LOCATION L0013638     VOLUME   440259.689 3762350.902 214.29
** End of LINE VOLUME Source ID = SLINE41
   LOCATION PAREA4       AREAPOLY   440194.402  3762471.300      216.050
** DESCRSRC Generator P2
** Source Parameters **
** LINE VOLUME Source ID = SLINE19
   SRCPARAM L0012702     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012703     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012704     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012705     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012706     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012707     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012708     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012709     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012710     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012711     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012712     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012713     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012714     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012715     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012716     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012717     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012718     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012719     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012720     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012721     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012722     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012723     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012724     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012725     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012726     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012727     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012728     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012729     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012730     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012731     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012732     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012733     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012734     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012735     0.0068916839      3.11      6.05      2.89
   SRCPARAM L0012736     0.0068916839      3.11      6.05      2.89
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** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE20
   SRCPARAM L0013442     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013443     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013444     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013445     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013446     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013447     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013448     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013449     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013450     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013451     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013452     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013453     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013454     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013455     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013456     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013457     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013458     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013459     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013460     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013461     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013462     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013463     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013464     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013465     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013466     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013467     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013468     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013469     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013470     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013471     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013472     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013473     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013474     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013475     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013476     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013477     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013478     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013479     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013480     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013481     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013482     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013483     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013484     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013485     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013486     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013487     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013488     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013489     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013490     0.005824504      3.11      5.58      2.89
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   SRCPARAM L0013491     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013492     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013493     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013494     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013495     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013496     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013497     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013498     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013499     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013500     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013501     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013502     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013503     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013504     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013505     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013506     0.005824504      3.11      5.58      2.89
   SRCPARAM L0013507     0.005824504      3.11      5.58      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE22
   SRCPARAM L0013508     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013509     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013510     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013511     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013512     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013513     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013514     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013515     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013516     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013517     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013518     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013519     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013520     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013521     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013522     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013523     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013524     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013525     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013526     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013527     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013528     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013529     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013530     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013531     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013532     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013533     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013534     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013535     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013536     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013537     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013538     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013539     0.0058495906      3.11      5.58      2.89
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   SRCPARAM L0013540     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013541     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013542     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013543     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013544     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013545     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013546     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013547     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013548     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013549     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013550     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013551     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013552     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013553     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013554     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013555     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013556     0.0058495906      3.11      5.58      2.89
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   SRCPARAM L0013559     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013560     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013561     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013562     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013563     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013564     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013565     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013566     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013567     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013568     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013569     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013570     0.0058495906      3.11      5.58      2.89
   SRCPARAM L0013571     0.0058495906      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE40
   SRCPARAM L0013572     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013573     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013574     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013575     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013576     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013577     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013578     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013579     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013580     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013581     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013582     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013583     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013584     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013585     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013586     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013587     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013588     0.0357142857      3.11      5.58      2.89
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   SRCPARAM L0013589     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013590     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013591     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013592     0.0357142857      3.11      5.58      2.89
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   SRCPARAM L0013594     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013595     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013596     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013597     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013598     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013599     0.0357142857      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE41
   SRCPARAM L0013628     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013629     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013630     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013631     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013632     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013633     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013634     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013635     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013636     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013637     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013638     0.0909090909      3.66      5.58      3.40
** ------------------------------------------------------------------
   SRCPARAM PAREA4       0.000049824     5.000         5
   AREAVERT PAREA4       440194.402 3762471.300 440340.118 3762473.161
   AREAVERT PAREA4       440342.598 3762333.645 440201.843 3762331.165
   AREAVERT PAREA4       440193.782 3762474.401
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP P2ONSITE L0013572 L0013573 L0013574 L0013575 L0013576 L0013577
   SRCGROUP P2ONSITE L0013578 L0013579 L0013580 L0013581 L0013582 L0013583
   SRCGROUP P2ONSITE L0013584 L0013585 L0013586 L0013587 L0013588 L0013589
   SRCGROUP P2ONSITE L0013590 L0013591 L0013592 L0013593 L0013594 L0013595
   SRCGROUP P2ONSITE L0013596 L0013597 L0013598 L0013599
   SRCGROUP P2IDLE   L0013628 L0013629 L0013630 L0013631 L0013632 L0013633
   SRCGROUP P2IDLE   L0013634 L0013635 L0013636 L0013637 L0013638
   SRCGROUP P2OFFSIT L0012702 L0012703 L0012704 L0012705 L0012706 L0012707
   SRCGROUP P2OFFSIT L0012708 L0012709 L0012710 L0012711 L0012712 L0012713
   SRCGROUP P2OFFSIT L0012714 L0012715 L0012716 L0012717 L0012718 L0012719
   SRCGROUP P2OFFSIT L0012720 L0012721 L0012722 L0012723 L0012724 L0012725
   SRCGROUP P2OFFSIT L0012726 L0012727 L0012728 L0012729 L0012730 L0012731
   SRCGROUP P2OFFSIT L0012732 L0012733 L0012734 L0012735 L0012736 L0013442
   SRCGROUP P2OFFSIT L0013443 L0013444 L0013445 L0013446 L0013447 L0013448
   SRCGROUP P2OFFSIT L0013449 L0013450 L0013451 L0013452 L0013453 L0013454
   SRCGROUP P2OFFSIT L0013455 L0013456 L0013457 L0013458 L0013459 L0013460
   SRCGROUP P2OFFSIT L0013461 L0013462 L0013463 L0013464 L0013465 L0013466
   SRCGROUP P2OFFSIT L0013467 L0013468 L0013469 L0013470 L0013471 L0013472
   SRCGROUP P2OFFSIT L0013473 L0013474 L0013475 L0013476 L0013477 L0013478
   SRCGROUP P2OFFSIT L0013479 L0013480 L0013481 L0013482 L0013483 L0013484
   SRCGROUP P2OFFSIT L0013485 L0013486 L0013487 L0013488 L0013489 L0013490
   SRCGROUP P2OFFSIT L0013491 L0013492 L0013493 L0013494 L0013495 L0013496
   SRCGROUP P2OFFSIT L0013497 L0013498 L0013499 L0013500 L0013501 L0013502
   SRCGROUP P2OFFSIT L0013503 L0013504 L0013505 L0013506 L0013507 L0013508
   SRCGROUP P2OFFSIT L0013509 L0013510 L0013511 L0013512 L0013513 L0013514
   SRCGROUP P2OFFSIT L0013515 L0013516 L0013517 L0013518 L0013519 L0013520
   SRCGROUP P2OFFSIT L0013521 L0013522 L0013523 L0013524 L0013525 L0013526
   SRCGROUP P2OFFSIT L0013527 L0013528 L0013529 L0013530 L0013531 L0013532
   SRCGROUP P2OFFSIT L0013533 L0013534 L0013535 L0013536 L0013537 L0013538
   SRCGROUP P2OFFSIT L0013539 L0013540 L0013541 L0013542 L0013543 L0013544
   SRCGROUP P2OFFSIT L0013545 L0013546 L0013547 L0013548 L0013549 L0013550
   SRCGROUP P2OFFSIT L0013551 L0013552 L0013553 L0013554 L0013555 L0013556
   SRCGROUP P2OFFSIT L0013557 L0013558 L0013559 L0013560 L0013561 L0013562
   SRCGROUP P2OFFSIT L0013563 L0013564 L0013565 L0013566 L0013567 L0013568
   SRCGROUP P2OFFSIT L0013569 L0013570 L0013571
   SRCGROUP P2GEN    PAREA4
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_Phase2Ops.rou
RE FINISHED
**
```

```
****************************************
** AERMOD Meteorology Pathway
****************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
****************************************
** AERMOD Output Pathway
****************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1GALL.PLT 31
   PLOTFILE 1 P2ONSITE 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1G001.PLT 32
   PLOTFILE 1 P2IDLE 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1G002.PLT 33
   PLOTFILE 1 P2OFFSIT 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1G003.PLT 34
   PLOTFILE 1 P2GEN 1ST ONTARIOEUCLID_PHASE2OPS.AD\01H1G004.PLT 35
   PLOTFILE PERIOD ALL ONTARIOEUCLID_PHASE2OPS.AD\PE00GALL.PLT 36
   PLOTFILE PERIOD P2ONSITE ONTARIOEUCLID_PHASE2OPS.AD\PE00G001.PLT 37
   PLOTFILE PERIOD P2IDLE ONTARIOEUCLID_PHASE2OPS.AD\PE00G002.PLT 38
   PLOTFILE PERIOD P2OFFSIT ONTARIOEUCLID_PHASE2OPS.AD\PE00G003.PLT 39
   PLOTFILE PERIOD P2GEN ONTARIOEUCLID_PHASE2OPS.AD\PE00G004.PLT 40
   SUMMFILE OntarioEuclid_Phase2Ops.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     623       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
```

```
    0.50
 ME W187     623       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 ***********************************
 *** SETUP Finishes Successfully ***
 ***********************************

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:31:51

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   205 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  1 Short Term Average(s) of:   1-HR
```

```
     and Calculates PERIOD Averages

 **This Run Includes:    205 Source(s);       5 Source Group(s); and     528
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    204 VOLUME source(s)
                 and:      1 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
          Model Outputs Tables of PERIOD Averages by Receptor
          Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
          Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
          Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   198.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                  Emission Units = GRAMS/SEC                              ;
Emission Rate Unit Factor =   0.10000E+07
                  Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      4.1 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   OntarioEuclid_Phase2Ops.err

 **File for Summary of Results:   OntarioEuclid_Phase2Ops.sum

↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0012702	0	0.68917E-02	439917.5	3762880.9	220.4	3.11	6.05	2.89	YES	
L0012703	0	0.68917E-02	439930.5	3762880.9	220.5	3.11	6.05	2.89	YES	
L0012704	0	0.68917E-02	439943.5	3762880.9	220.6	3.11	6.05	2.89	YES	
L0012705	0	0.68917E-02	439956.5	3762880.8	220.6	3.11	6.05	2.89	YES	
L0012706	0	0.68917E-02	439969.5	3762880.8	220.6	3.11	6.05	2.89	YES	
L0012707	0	0.68917E-02	439982.5	3762880.7	220.6	3.11	6.05	2.89	YES	
L0012708	0	0.68917E-02	439995.5	3762880.7	220.6	3.11	6.05	2.89	YES	
L0012709	0	0.68917E-02	440008.5	3762880.7	220.6	3.11	6.05	2.89	YES	
L0012710	0	0.68917E-02	440021.5	3762880.6	220.5	3.11	6.05	2.89	YES	
L0012711	0	0.68917E-02	440034.5	3762880.6	220.5	3.11	6.05	2.89	YES	
L0012712	0	0.68917E-02	440047.5	3762880.5	220.5	3.11	6.05	2.89	YES	
L0012713	0	0.68917E-02	440060.5	3762880.5	220.5	3.11	6.05	2.89	YES	
L0012714	0	0.68917E-02	440073.5	3762880.5	220.6	3.11	6.05	2.89	YES	
L0012715	0	0.68917E-02	440086.5	3762880.4	220.7	3.11	6.05	2.89	YES	
L0012716	0	0.68917E-02	440099.5	3762880.4	220.7	3.11	6.05	2.89	YES	
L0012717	0	0.68917E-02	440112.5	3762880.3	220.8	3.11	6.05	2.89	YES	

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 L0012718         0   0.68917E-02  440125.5 3762880.3   220.8     3.11     6.05
2.89     YES
 L0012719         0   0.68917E-02  440138.5 3762880.2   220.9     3.11     6.05
2.89     YES
 L0012720         0   0.68917E-02  440151.5 3762880.2   220.9     3.11     6.05
2.89     YES
 L0012721         0   0.68917E-02  440164.5 3762880.2   221.0     3.11     6.05
2.89     YES
 L0012722         0   0.68917E-02  440177.5 3762880.1   221.0     3.11     6.05
2.89     YES
 L0012723         0   0.68917E-02  440190.5 3762880.1   221.0     3.11     6.05
2.89     YES
 L0012724         0   0.68917E-02  440203.5 3762880.0   221.0     3.11     6.05
2.89     YES
 L0012725         0   0.68917E-02  440216.5 3762880.0   221.1     3.11     6.05
2.89     YES
 L0012726         0   0.68917E-02  440229.5 3762880.0   221.1     3.11     6.05
2.89     YES
 L0012727         0   0.68917E-02  440242.5 3762879.9   221.1     3.11     6.05
2.89     YES
 L0012728         0   0.68917E-02  440255.5 3762879.9   221.1     3.11     6.05
2.89     YES
 L0012729         0   0.68917E-02  440268.5 3762879.8   221.2     3.11     6.05
2.89     YES
 L0012730         0   0.68917E-02  440281.5 3762879.8   221.2     3.11     6.05
2.89     YES
 L0012731         0   0.68917E-02  440294.5 3762879.8   221.2     3.11     6.05
2.89     YES
 L0012732         0   0.68917E-02  440307.5 3762879.7   221.2     3.11     6.05
2.89     YES
 L0012733         0   0.68917E-02  440320.5 3762879.7   221.2     3.11     6.05
2.89     YES
 L0012734         0   0.68917E-02  440333.5 3762879.6   221.2     3.11     6.05
2.89     YES
 L0012735         0   0.68917E-02  440346.5 3762879.6   221.2     3.11     6.05
2.89     YES
 L0012736         0   0.68917E-02  440359.5 3762879.6   221.1     3.11     6.05
2.89     YES
 L0013442         0   0.58245E-02  440371.0 3762866.0   220.8     3.11     5.58
2.89     YES
 L0013443         0   0.58245E-02  440371.3 3762854.0   220.6     3.11     5.58
2.89     YES
 L0013444         0   0.58245E-02  440371.5 3762842.0   220.4     3.11     5.58
2.89     YES
 L0013445         0   0.58245E-02  440371.8 3762830.0   220.3     3.11     5.58
2.89     YES
 L0013446         0   0.58245E-02  440372.1 3762818.0   220.2     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0013447	0	0.58245E-02	440372.4	3762806.0	220.0	3.11	5.58	2.89	YES	
L0013448	0	0.58245E-02	440372.6	3762794.0	219.9	3.11	5.58	2.89	YES	
L0013449	0	0.58245E-02	440372.9	3762782.0	219.8	3.11	5.58	2.89	YES	
L0013450	0	0.58245E-02	440373.2	3762770.0	219.6	3.11	5.58	2.89	YES	
L0013451	0	0.58245E-02	440373.5	3762758.0	219.5	3.11	5.58	2.89	YES	
L0013452	0	0.58245E-02	440373.7	3762746.0	219.4	3.11	5.58	2.89	YES	
L0013453	0	0.58245E-02	440374.0	3762734.0	219.2	3.11	5.58	2.89	YES	
L0013454	0	0.58245E-02	440374.3	3762722.0	219.1	3.11	5.58	2.89	YES	
L0013455	0	0.58245E-02	440374.5	3762710.0	219.0	3.11	5.58	2.89	YES	
L0013456	0	0.58245E-02	440374.8	3762698.0	218.8	3.11	5.58	2.89	YES	
L0013457	0	0.58245E-02	440375.1	3762686.0	218.7	3.11	5.58	2.89	YES	
L0013458	0	0.58245E-02	440375.4	3762674.1	218.7	3.11	5.58	2.89	YES	
L0013459	0	0.58245E-02	440375.6	3762662.1	218.6	3.11	5.58	2.89	YES	
L0013460	0	0.58245E-02	440375.9	3762650.1	218.4	3.11	5.58	2.89	YES	
L0013461	0	0.58245E-02	440376.2	3762638.1	218.3	3.11	5.58	2.89	YES	
L0013462	0	0.58245E-02	440376.5	3762626.1	218.2	3.11	5.58	2.89	YES	
L0013463	0	0.58245E-02	440376.7	3762614.1	218.1	3.11	5.58	2.89	YES	

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 L0013464         0   0.58245E-02  440377.0 3762602.1   218.0     3.11     5.58
2.89     YES
 L0013465         0   0.58245E-02  440377.3 3762590.1   217.8     3.11     5.58
2.89     YES
 L0013466         0   0.58245E-02  440377.5 3762578.1   217.6     3.11     5.58
2.89     YES
 L0013467         0   0.58245E-02  440377.8 3762566.1   217.4     3.11     5.58
2.89     YES
 L0013468         0   0.58245E-02  440378.1 3762554.1   217.3     3.11     5.58
2.89     YES
 L0013469         0   0.58245E-02  440378.4 3762542.1   217.3     3.11     5.58
2.89     YES
 L0013470         0   0.58245E-02  440378.6 3762530.1   217.4     3.11     5.58
2.89     YES
 L0013471         0   0.58245E-02  440378.9 3762518.1   217.6     3.11     5.58
2.89     YES
 L0013472         0   0.58245E-02  440379.2 3762506.1   217.6     3.11     5.58
2.89     YES
 L0013473         0   0.58245E-02  440379.5 3762494.1   217.5     3.11     5.58
2.89     YES
 L0013474         0   0.58245E-02  440379.7 3762482.1   217.4     3.11     5.58
2.89     YES
 L0013475         0   0.58245E-02  440380.0 3762470.1   216.8     3.11     5.58
2.89     YES
 L0013476         0   0.58245E-02  440380.3 3762458.1   216.2     3.11     5.58
2.89     YES
 L0013477         0   0.58245E-02  440380.5 3762446.1   215.8     3.11     5.58
2.89     YES
 L0013478         0   0.58245E-02  440380.8 3762434.1   215.6     3.11     5.58
2.89     YES
 L0013479         0   0.58245E-02  440381.1 3762422.1   215.4     3.11     5.58
2.89     YES
 L0013480         0   0.58245E-02  440381.4 3762410.1   215.2     3.11     5.58
2.89     YES
 L0013481         0   0.58245E-02  440381.6 3762398.1   215.1     3.11     5.58
2.89     YES
 L0013482         0   0.58245E-02  440381.9 3762386.1   214.9     3.11     5.58
2.89     YES
 L0013483         0   0.58245E-02  440382.2 3762374.1   214.8     3.11     5.58
2.89     YES
 L0013484         0   0.58245E-02  440382.5 3762362.1   214.7     3.11     5.58
2.89     YES
 L0013485         0   0.58245E-02  440382.7 3762350.1   214.6     3.11     5.58
2.89     YES
 L0013486         0   0.58245E-02  440383.0 3762338.1   214.5     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:31:51
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0013487	0	0.58245E-02	440383.3	3762326.1	214.4	3.11	5.58	2.89	YES
L0013488	0	0.58245E-02	440383.5	3762314.1	214.2	3.11	5.58	2.89	YES
L0013489	0	0.58245E-02	440383.8	3762302.1	214.1	3.11	5.58	2.89	YES
L0013490	0	0.58245E-02	440384.1	3762290.2	213.9	3.11	5.58	2.89	YES
L0013491	0	0.58245E-02	440384.4	3762278.2	213.7	3.11	5.58	2.89	YES
L0013492	0	0.58245E-02	440384.6	3762266.2	213.6	3.11	5.58	2.89	YES
L0013493	0	0.58245E-02	440384.9	3762254.2	213.5	3.11	5.58	2.89	YES
L0013494	0	0.58245E-02	440385.2	3762242.2	213.4	3.11	5.58	2.89	YES
L0013495	0	0.58245E-02	440385.5	3762230.2	213.3	3.11	5.58	2.89	YES
L0013496	0	0.58245E-02	440385.7	3762218.2	213.2	3.11	5.58	2.89	YES
L0013497	0	0.58245E-02	440386.0	3762206.2	213.2	3.11	5.58	2.89	YES
L0013498	0	0.58245E-02	440386.3	3762194.2	213.1	3.11	5.58	2.89	YES
L0013499	0	0.58245E-02	440386.5	3762182.2	213.0	3.11	5.58	2.89	YES
L0013500	0	0.58245E-02	440386.8	3762170.2	212.9	3.11	5.58	2.89	YES
L0013501	0	0.58245E-02	440387.1	3762158.2	212.7	3.11	5.58	2.89	YES
L0013502	0	0.58245E-02	440387.4	3762146.2	212.6	3.11	5.58	2.89	YES
L0013503	0	0.58245E-02	440387.6	3762134.2	212.4	3.11	5.58	2.89	YES
L0013504	0	0.58245E-02	440387.9	3762122.2	212.1	3.11	5.58	2.89	YES

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 L0013505         0   0.58245E-02  440388.2 3762110.2   212.0     3.11     5.58
2.89     YES
 L0013506         0   0.58245E-02  440388.5 3762098.2   211.8     3.11     5.58
2.89     YES
 L0013507         0   0.58245E-02  440388.7 3762086.2   211.7     3.11     5.58
2.89     YES
 L0013508         0   0.58496E-02  440399.8 3762073.9   211.6     3.11     5.58
2.89     YES
 L0013509         0   0.58496E-02  440411.8 3762073.9   211.6     3.11     5.58
2.89     YES
 L0013510         0   0.58496E-02  440423.8 3762073.9   211.6     3.11     5.58
2.89     YES
 L0013511         0   0.58496E-02  440435.8 3762073.9   211.5     3.11     5.58
2.89     YES
 L0013512         0   0.58496E-02  440447.8 3762073.9   211.5     3.11     5.58
2.89     YES
 L0013513         0   0.58496E-02  440459.8 3762074.0   211.5     3.11     5.58
2.89     YES
 L0013514         0   0.58496E-02  440471.8 3762074.0   211.5     3.11     5.58
2.89     YES
 L0013515         0   0.58496E-02  440483.8 3762074.0   211.5     3.11     5.58
2.89     YES
 L0013516         0   0.58496E-02  440495.8 3762074.0   211.5     3.11     5.58
2.89     YES
 L0013517         0   0.58496E-02  440507.8 3762074.1   211.5     3.11     5.58
2.89     YES
 L0013518         0   0.58496E-02  440519.8 3762074.1   211.6     3.11     5.58
2.89     YES
 L0013519         0   0.58496E-02  440531.8 3762074.1   211.6     3.11     5.58
2.89     YES
 L0013520         0   0.58496E-02  440543.8 3762074.1   211.6     3.11     5.58
2.89     YES
 L0013521         0   0.58496E-02  440555.8 3762074.2   211.6     3.11     5.58
2.89     YES
 L0013522         0   0.58496E-02  440567.8 3762074.2   211.6     3.11     5.58
2.89     YES
 L0013523         0   0.58496E-02  440579.8 3762074.2   211.6     3.11     5.58
2.89     YES
 L0013524         0   0.58496E-02  440591.8 3762074.2   211.5     3.11     5.58
2.89     YES
 L0013525         0   0.58496E-02  440603.8 3762074.2   211.5     3.11     5.58
2.89     YES
 L0013526         0   0.58496E-02  440615.8 3762074.3   211.5     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0013527	0	0.58496E-02	440627.8	3762074.3	211.5	3.11	5.58	2.89	YES
L0013528	0	0.58496E-02	440639.8	3762074.3	211.6	3.11	5.58	2.89	YES
L0013529	0	0.58496E-02	440651.8	3762074.3	211.7	3.11	5.58	2.89	YES
L0013530	0	0.58496E-02	440663.8	3762074.4	211.8	3.11	5.58	2.89	YES
L0013531	0	0.58496E-02	440675.8	3762074.4	211.9	3.11	5.58	2.89	YES
L0013532	0	0.58496E-02	440687.8	3762074.4	211.9	3.11	5.58	2.89	YES
L0013533	0	0.58496E-02	440699.8	3762074.4	212.0	3.11	5.58	2.89	YES
L0013534	0	0.58496E-02	440711.8	3762074.5	212.0	3.11	5.58	2.89	YES
L0013535	0	0.58496E-02	440723.8	3762074.5	212.0	3.11	5.58	2.89	YES
L0013536	0	0.58496E-02	440735.8	3762074.5	212.1	3.11	5.58	2.89	YES
L0013537	0	0.58496E-02	440747.8	3762074.5	212.1	3.11	5.58	2.89	YES
L0013538	0	0.58496E-02	440759.8	3762074.5	212.1	3.11	5.58	2.89	YES
L0013539	0	0.58496E-02	440771.8	3762074.6	212.1	3.11	5.58	2.89	YES
L0013540	0	0.58496E-02	440783.8	3762074.6	212.0	3.11	5.58	2.89	YES
L0013541	0	0.58496E-02	440795.8	3762074.6	211.9	3.11	5.58	2.89	YES
L0013542	0	0.58496E-02	440807.8	3762074.6	211.8	3.11	5.58	2.89	YES
L0013543	0	0.58496E-02	440819.8	3762074.7	211.8	3.11	5.58	2.89	YES
L0013544	0	0.58496E-02	440831.8	3762074.7	211.8	3.11	5.58	2.89	YES
L0013545	0	0.58496E-02	440843.8	3762074.7	211.8	3.11	5.58	2.89	YES

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 L0013546         0   0.58496E-02  440855.8 3762074.7   211.8     3.11     5.58
2.89     YES
 L0013547         0   0.58496E-02  440867.8 3762074.8   211.9     3.11     5.58
2.89     YES
 L0013548         0   0.58496E-02  440879.8 3762074.8   211.9     3.11     5.58
2.89     YES
 L0013549         0   0.58496E-02  440891.8 3762074.8   211.9     3.11     5.58
2.89     YES
 L0013550         0   0.58496E-02  440903.8 3762074.8   211.9     3.11     5.58
2.89     YES
 L0013551         0   0.58496E-02  440915.8 3762074.8   211.9     3.11     5.58
2.89     YES
 L0013552         0   0.58496E-02  440927.8 3762074.9   211.9     3.11     5.58
2.89     YES
 L0013553         0   0.58496E-02  440939.8 3762074.9   211.9     3.11     5.58
2.89     YES
 L0013554         0   0.58496E-02  440951.8 3762074.9   211.9     3.11     5.58
2.89     YES
 L0013555         0   0.58496E-02  440963.8 3762074.9   211.9     3.11     5.58
2.89     YES
 L0013556         0   0.58496E-02  440975.8 3762075.0   211.9     3.11     5.58
2.89     YES
 L0013557         0   0.58496E-02  440987.8 3762075.0   211.8     3.11     5.58
2.89     YES
 L0013558         0   0.58496E-02  440999.8 3762075.0   211.7     3.11     5.58
2.89     YES
 L0013559         0   0.58496E-02  441011.8 3762075.0   211.6     3.11     5.58
2.89     YES
 L0013560         0   0.58496E-02  441023.8 3762075.0   211.6     3.11     5.58
2.89     YES
 L0013561         0   0.58496E-02  441035.8 3762075.1   211.6     3.11     5.58
2.89     YES
 L0013562         0   0.58496E-02  441047.8 3762075.1   211.6     3.11     5.58
2.89     YES
 L0013563         0   0.58496E-02  441059.8 3762075.1   211.6     3.11     5.58
2.89     YES
 L0013564         0   0.58496E-02  441071.8 3762075.1   211.5     3.11     5.58
2.89     YES
 L0013565         0   0.58496E-02  441083.8 3762075.2   211.5     3.11     5.58
2.89     YES
 L0013566         0   0.58496E-02  441095.8 3762075.2   211.4     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE	EMISSION RATE VARY BY
L0013567	0	0.58496E-02	441107.8	3762075.2	211.3	3.11	5.58	2.89	YES	
L0013568	0	0.58496E-02	441119.8	3762075.2	211.3	3.11	5.58	2.89	YES	
L0013569	0	0.58496E-02	441131.8	3762075.3	211.3	3.11	5.58	2.89	YES	
L0013570	0	0.58496E-02	441143.8	3762075.3	211.3	3.11	5.58	2.89	YES	
L0013571	0	0.58496E-02	441155.8	3762075.3	211.3	3.11	5.58	2.89	YES	
L0013572	0	0.35714E-01	440245.9	3762467.2	216.3	3.11	5.58	2.89	YES	
L0013573	0	0.35714E-01	440246.0	3762455.2	215.8	3.11	5.58	2.89	YES	
L0013574	0	0.35714E-01	440246.1	3762443.2	215.5	3.11	5.58	2.89	YES	
L0013575	0	0.35714E-01	440246.2	3762431.2	215.2	3.11	5.58	2.89	YES	
L0013576	0	0.35714E-01	440246.3	3762419.2	214.8	3.11	5.58	2.89	YES	
L0013577	0	0.35714E-01	440246.4	3762407.2	214.6	3.11	5.58	2.89	YES	
L0013578	0	0.35714E-01	440246.6	3762395.2	214.4	3.11	5.58	2.89	YES	
L0013579	0	0.35714E-01	440246.7	3762383.2	214.3	3.11	5.58	2.89	YES	
L0013580	0	0.35714E-01	440246.8	3762371.2	214.2	3.11	5.58	2.89	YES	
L0013581	0	0.35714E-01	440246.9	3762359.2	214.1	3.11	5.58	2.89	YES	
L0013582	0	0.35714E-01	440247.0	3762347.2	213.9	3.11	5.58	2.89	YES	
L0013583	0	0.35714E-01	440247.1	3762335.2	213.8	3.11	5.58	2.89	YES	
L0013584	0	0.35714E-01	440255.7	3762331.8	214.0	3.11	5.58	2.89	YES	
L0013585	0	0.35714E-01	440267.7	3762331.8	214.3	3.11	5.58	2.89	YES	
L0013586	0	0.35714E-01	440275.0	3762336.5	214.5	3.11	5.58	2.89	YES	

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 L0013587         0   0.35714E-01  440274.9 3762348.5   214.6     3.11     5.58
2.89     YES
 L0013588         0   0.35714E-01  440274.8 3762360.5   214.7     3.11     5.58
2.89     YES
 L0013589         0   0.35714E-01  440274.7 3762372.5   214.8     3.11     5.58
2.89     YES
 L0013590         0   0.35714E-01  440274.5 3762384.5   214.9     3.11     5.58
2.89     YES
 L0013591         0   0.35714E-01  440274.4 3762396.5   215.0     3.11     5.58
2.89     YES
 L0013592         0   0.35714E-01  440281.0 3762402.0   215.0     3.11     5.58
2.89     YES
 L0013593         0   0.35714E-01  440293.0 3762402.2   215.1     3.11     5.58
2.89     YES
 L0013594         0   0.35714E-01  440305.0 3762402.4   215.1     3.11     5.58
2.89     YES
 L0013595         0   0.35714E-01  440317.0 3762402.6   215.1     3.11     5.58
2.89     YES
 L0013596         0   0.35714E-01  440329.0 3762402.9   215.1     3.11     5.58
2.89     YES
 L0013597         0   0.35714E-01  440341.0 3762403.1   215.1     3.11     5.58
2.89     YES
 L0013598         0   0.35714E-01  440353.0 3762403.3   215.1     3.11     5.58
2.89     YES
 L0013599         0   0.35714E-01  440365.0 3762403.5   215.2     3.11     5.58
2.89     YES
 L0013628         0   0.90909E-01  440261.9 3762470.9   216.8     3.66     5.58
3.40     YES
 L0013629         0   0.90909E-01  440261.7 3762458.9   216.2     3.66     5.58
3.40     YES
 L0013630         0   0.90909E-01  440261.4 3762446.9   215.7     3.66     5.58
3.40     YES
 L0013631         0   0.90909E-01  440261.2 3762434.9   215.4     3.66     5.58
3.40     YES
 L0013632         0   0.90909E-01  440261.0 3762422.9   215.1     3.66     5.58
3.40     YES
 L0013633         0   0.90909E-01  440260.8 3762410.9   214.9     3.66     5.58
3.40     YES
 L0013634         0   0.90909E-01  440260.6 3762398.9   214.8     3.66     5.58
3.40     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***
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               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 L0013635         0   0.90909E-01  440260.3 3762386.9   214.6     3.66     5.58
3.40     YES
 L0013636         0   0.90909E-01  440260.1 3762374.9   214.5     3.66     5.58
3.40     YES
 L0013637         0   0.90909E-01  440259.9 3762362.9   214.4     3.66     5.58
3.40     YES
 L0013638         0   0.90909E-01  440259.7 3762350.9   214.3     3.66     5.58
3.40     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** AREAPOLY SOURCE DATA ***

               NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER
 INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.
  SZ     SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

 PAREA4           0   0.49824E-04  440194.4 3762471.3   216.1     5.00       5
  0.00     YES   HRDOW7
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                             *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 ,

L0013596 , L0013597 , L0013598 , L0013599 ,

P2IDLE L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 ,

L0013636 , L0013637 , L0013638 ,

P2OFFSIT L0012702 , L0012703 , L0012704 , L0012705 , L0012706 , L0012707 , L0012708 , L0012709 ,

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L0012726 , L0012727 , L0012728 , L0012729 , L0012730 , L0012731 , L0012732 , L0012733 ,

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             L0013503    , L0013504    , L0013505    , L0013506    , L0013507    ,
L0013508    , L0013509    , L0013510    ,

             L0013511    , L0013512    , L0013513    , L0013514    , L0013515    ,
L0013516    , L0013517    , L0013518    ,
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                 SOURCE IDs
 -----------                                                 ----------


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L0013524    , L0013525    , L0013526    ,

             L0013527    , L0013528    , L0013529    , L0013530    , L0013531    ,
L0013532    , L0013533    , L0013534    ,

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L0013540    , L0013541    , L0013542    ,

             L0013543    , L0013544    , L0013545    , L0013546    , L0013547    ,
L0013548    , L0013549    , L0013550    ,

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L0013556    , L0013557    , L0013558    ,

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L0013564    , L0013565    , L0013566    ,

             L0013567    , L0013568    , L0013569    , L0013570    , L0013571    ,

  P2GEN      PAREA4      ,

  ALL        L0012702    , L0012703    , L0012704    , L0012705    , L0012706    ,
L0012707    , L0012708    , L0012709    ,

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             L0012718    , L0012719    , L0012720    , L0012721    , L0012722    ,
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L0013476    , L0013477    , L0013478    ,

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L0013492    , L0013493    , L0013494    ,

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L0013500    , L0013501    , L0013502    ,
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                 SOURCE IDs
 -----------                                                 ----------


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             L0013511    , L0013512    , L0013513    , L0013514    , L0013515    ,
L0013516    , L0013517    , L0013518    ,
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L0013564 , L0013565 , L0013566 ,

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L0013596 , L0013597 , L0013598 ,

L0013599 , L0013628 , L0013629 , L0013630 , L0013631 ,
L0013632 , L0013633 , L0013634 ,

L0013635 , L0013636 , L0013637 , L0013638 , PAREA4 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
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L0012706    , L0012707    , L0012708    ,
 L0012709    ,

             L0012710    , L0012711    , L0012712    , L0012713    , L0012714    ,
L0012715    , L0012716    , L0012717    ,

             L0012718    , L0012719    , L0012720    , L0012721    , L0012722    ,
L0012723    , L0012724    , L0012725    ,

             L0012726    , L0012727    , L0012728    , L0012729    , L0012730    ,
L0012731    , L0012732    , L0012733    ,

             L0012734    , L0012735    , L0012736    , L0013442    , L0013443    ,
L0013444    , L0013445    , L0013446    ,

             L0013447    , L0013448    , L0013449    , L0013450    , L0013451    ,
L0013452    , L0013453    , L0013454    ,

             L0013455    , L0013456    , L0013457    , L0013458    , L0013459    ,
L0013460    , L0013461    , L0013462    ,

             L0013463    , L0013464    , L0013465    , L0013466    , L0013467    ,
L0013468    , L0013469    , L0013470    ,

             L0013471    , L0013472    , L0013473    , L0013474    , L0013475    ,
L0013476    , L0013477    , L0013478    ,

             L0013479    , L0013480    , L0013481    , L0013482    , L0013483    ,
L0013484    , L0013485    , L0013486    ,

             L0013487    , L0013488    , L0013489    , L0013490    , L0013491    ,
L0013492    , L0013493    , L0013494    ,

             L0013495    , L0013496    , L0013497    , L0013498    , L0013499    ,
L0013500    , L0013501    , L0013502    ,

             L0013503    , L0013504    , L0013505    , L0013506    , L0013507    ,
L0013508    , L0013509    , L0013510    ,

             L0013511    , L0013512    , L0013513    , L0013514    , L0013515    ,
L0013516    , L0013517    , L0013518    ,

             L0013519    , L0013520    , L0013521    , L0013522    , L0013523    ,
L0013524    , L0013525    , L0013526    ,

             L0013527    , L0013528    , L0013529    , L0013530    , L0013531    ,
L0013532    , L0013533    , L0013534    ,

             L0013535    , L0013536    , L0013537    , L0013538    , L0013539    ,
L0013540    , L0013541    , L0013542    ,
```

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

```
 SOURCE ID = PAREA4       ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
                                                    DAY OF WEEK = MONDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .1000E+01
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                                    DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
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*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(440407.9, 3761497.8, 205.4, 205.4, 0.0); (439943.4, 3761716.3, 206.8, 206.8, 0.0);
(439170.2, 3763092.5, 220.1, 220.1, 0.0); (439220.2, 3763092.5, 220.7, 220.7, 0.0);
(439270.2, 3763092.5, 220.6, 220.6, 0.0); (439320.2, 3763092.5, 220.9, 220.9, 0.0);
(439370.2, 3763092.5, 221.0, 221.0, 0.0); (439420.2, 3763092.5, 220.7, 220.7, 0.0);
(439470.2, 3763092.5, 220.4, 220.4, 0.0); (439520.2, 3763092.5, 220.4, 220.4, 0.0);
(439570.2, 3763092.5, 220.4, 220.4, 0.0); (439620.2, 3763092.5, 220.9, 220.9, 0.0);
(439670.2, 3763092.5, 221.6, 221.6, 0.0); (439720.2, 3763092.5, 221.9, 221.9, 0.0);
(439770.2, 3763092.5, 222.1, 222.1, 0.0); (439820.2, 3763092.5, 222.3, 222.3, 0.0);
(439870.2, 3763092.5, 222.6, 222.6, 0.0); (439170.2, 3763142.5, 220.8, 220.8, 0.0);
(439220.2, 3763142.5, 221.2, 221.2, 0.0); (439270.2, 3763142.5, 221.0, 221.0, 0.0);
(439320.2, 3763142.5, 221.3, 221.3, 0.0); (439370.2, 3763142.5, 221.3, 221.3, 0.0);
(439420.2, 3763142.5, 221.0, 221.0, 0.0); (439470.2, 3763142.5, 221.3, 221.3, 0.0);
(439520.2, 3763142.5, 221.5, 221.5, 0.0); (439570.2, 3763142.5, 221.2, 221.2, 0.0);
(439620.2, 3763142.5, 221.3, 221.3, 0.0); (439670.2, 3763142.5, 222.0, 222.0, 0.0);
(439720.2, 3763142.5, 222.3, 222.3, 0.0); (439770.2, 3763142.5, 222.6, 222.6, 0.0);
(439820.2, 3763142.5, 222.9, 222.9, 0.0); (439870.2, 3763142.5, 223.2, 223.2, 0.0);
(439170.2, 3763192.5, 221.4, 221.4, 0.0); (439220.2, 3763192.5, 221.6, 221.6, 0.0);
(439270.2, 3763192.5, 221.3, 221.3, 0.0); (439320.2, 3763192.5, 221.8, 221.8, 0.0);

```
     ( 439370.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439420.2,
3763192.5,     221.3,     221.3,       0.0);
     ( 439470.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439520.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439570.2, 3763192.5,     221.8,     221.8,       0.0);         ( 439620.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439670.2, 3763192.5,     222.5,     222.5,       0.0);         ( 439720.2,
3763192.5,     223.2,     223.2,       0.0);
     ( 439770.2, 3763192.5,     223.5,     223.5,       0.0);         ( 439820.2,
3763192.5,     223.7,     223.7,       0.0);
     ( 439870.2, 3763192.5,     223.9,     223.9,       0.0);         ( 439170.2,
3763242.5,     222.1,     222.1,       0.0);
     ( 439220.2, 3763242.5,     222.1,     222.1,       0.0);         ( 439270.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439320.2, 3763242.5,     222.0,     222.0,       0.0);         ( 439370.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439420.2, 3763242.5,     221.9,     221.9,       0.0);         ( 439470.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439520.2, 3763242.5,     222.3,     222.3,       0.0);         ( 439570.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439620.2, 3763242.5,     222.2,     222.2,       0.0);         ( 439670.2,
3763242.5,     222.8,     222.8,       0.0);
     ( 439720.2, 3763242.5,     223.5,     223.5,       0.0);         ( 439770.2,
3763242.5,     224.0,     224.0,       0.0);
     ( 439820.2, 3763242.5,     224.3,     224.3,       0.0);         ( 439870.2,
3763242.5,     224.5,     224.5,       0.0);
     ( 439170.2, 3763292.5,     222.9,     222.9,       0.0);         ( 439220.2,
3763292.5,     223.4,     223.4,       0.0);
     ( 439270.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439320.2,
3763292.5,     223.0,     223.0,       0.0);
     ( 439370.2, 3763292.5,     222.5,     222.5,       0.0);         ( 439420.2,
3763292.5,     222.9,     222.9,       0.0);
     ( 439470.2, 3763292.5,     223.2,     223.2,       0.0);         ( 439520.2,
3763292.5,     223.5,     223.5,       0.0);
     ( 439570.2, 3763292.5,     223.0,     223.0,       0.0);         ( 439620.2,
3763292.5,     223.1,     223.1,       0.0);
     ( 439670.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439720.2,
3763292.5,     224.0,     224.0,       0.0);
     ( 439770.2, 3763292.5,     224.8,     224.8,       0.0);         ( 439820.2,
3763292.5,     225.1,     225.1,       0.0);
     ( 439870.2, 3763292.5,     225.1,     225.1,       0.0);         ( 439170.2,
3763342.5,     223.6,     223.6,       0.0);
     ( 439220.2, 3763342.5,     224.0,     224.0,       0.0);         ( 439270.2,
3763342.5,     223.5,     223.5,       0.0);
     ( 439320.2, 3763342.5,     223.4,     223.4,       0.0);         ( 439370.2,
3763342.5,     223.0,     223.0,       0.0);
     ( 439420.2, 3763342.5,     223.3,     223.3,       0.0);         ( 439470.2,
3763342.5,     223.6,     223.6,       0.0);
     ( 439520.2, 3763342.5,     223.9,     223.9,       0.0);         ( 439570.2,
3763342.5,     223.7,     223.7,       0.0);
     ( 439620.2, 3763342.5,     223.5,     223.5,       0.0);         ( 439670.2,
```

3763342.5,   223.9,   223.9,   0.0);
     (439720.2, 3763342.5,   224.4,   224.4,   0.0);   (439770.2,
3763342.5,   225.3,   225.3,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                           (METERS)

     (439820.2, 3763342.5,   225.6,   225.6,   0.0);   (439870.2,
3763342.5,   225.8,   225.8,   0.0);
     (439170.2, 3763392.5,   224.3,   224.3,   0.0);   (439220.2,
3763392.5,   224.5,   224.5,   0.0);
     (439270.2, 3763392.5,   223.9,   223.9,   0.0);   (439320.2,
3763392.5,   224.3,   224.3,   0.0);
     (439370.2, 3763392.5,   224.0,   224.0,   0.0);   (439420.2,
3763392.5,   224.4,   224.4,   0.0);
     (439470.2, 3763392.5,   224.7,   224.7,   0.0);   (439520.2,
3763392.5,   224.3,   224.3,   0.0);
     (439570.2, 3763392.5,   224.2,   224.2,   0.0);   (439620.2,
3763392.5,   224.0,   224.0,   0.0);
     (439670.2, 3763392.5,   224.5,   224.5,   0.0);   (439720.2,
3763392.5,   224.8,   224.8,   0.0);
     (439770.2, 3763392.5,   225.6,   225.6,   0.0);   (439820.2,
3763392.5,   226.0,   226.0,   0.0);
     (439870.2, 3763392.5,   226.3,   226.3,   0.0);   (439170.2,
3763442.5,   225.0,   225.0,   0.0);
     (439220.2, 3763442.5,   225.1,   225.1,   0.0);   (439270.2,
3763442.5,   224.5,   224.5,   0.0);
     (439320.2, 3763442.5,   224.5,   224.5,   0.0);   (439370.2,
3763442.5,   224.6,   224.6,   0.0);
     (439420.2, 3763442.5,   224.7,   224.7,   0.0);   (439470.2,
3763442.5,   225.0,   225.0,   0.0);
     (439520.2, 3763442.5,   224.7,   224.7,   0.0);   (439570.2,
3763442.5,   224.7,   224.7,   0.0);
     (439620.2, 3763442.5,   224.6,   224.6,   0.0);   (439670.2,
3763442.5,   225.0,   225.0,   0.0);
     (439720.2, 3763442.5,   225.4,   225.4,   0.0);   (439770.2,
3763442.5,   226.1,   226.1,   0.0);
     (439820.2, 3763442.5,   226.5,   226.5,   0.0);   (439870.2,
3763442.5,   226.7,   226.7,   0.0);
     (439203.2, 3762911.2,   218.2,   218.2,   0.0);   (439253.2,
3762911.2,   218.6,   218.6,   0.0);
     (439303.2, 3762911.2,   218.7,   218.7,   0.0);   (439353.2,
3762911.2,   217.9,   217.9,   0.0);

```
     ( 439403.2, 3762911.2,     218.0,     218.0,       0.0);         ( 439453.2,
3762911.2,     218.3,     218.3,       0.0);
     ( 439503.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439553.2,
3762911.2,     218.5,     218.5,       0.0);
     ( 439203.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439253.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439303.2, 3762961.2,     219.2,     219.2,       0.0);         ( 439353.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439403.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439453.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439503.2, 3762961.2,     218.7,     218.7,       0.0);         ( 439553.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439203.2, 3763011.2,     219.6,     219.6,       0.0);         ( 439253.2,
3763011.2,     219.7,     219.7,       0.0);
     ( 439303.2, 3763011.2,     219.9,     219.9,       0.0);         ( 439353.2,
3763011.2,     220.0,     220.0,       0.0);
     ( 439403.2, 3763011.2,     219.2,     219.2,       0.0);         ( 439453.2,
3763011.2,     219.4,     219.4,       0.0);
     ( 439503.2, 3763011.2,     219.1,     219.1,       0.0);         ( 439553.2,
3763011.2,     219.5,     219.5,       0.0);
     ( 439203.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439253.2,
3763061.2,     220.5,     220.5,       0.0);
     ( 439303.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439353.2,
3763061.2,     220.8,     220.8,       0.0);
     ( 439403.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439453.2,
3763061.2,     220.4,     220.4,       0.0);
     ( 439503.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439553.2,
3763061.2,     220.3,     220.3,       0.0);
     ( 439196.0, 3762392.5,     212.6,     212.6,       0.0);         ( 439246.0,
3762392.5,     212.7,     212.7,       0.0);
     ( 439296.0, 3762392.5,     212.7,     212.7,       0.0);         ( 439346.0,
3762392.5,     212.6,     212.6,       0.0);
     ( 439396.0, 3762392.5,     212.5,     212.5,       0.0);         ( 439446.0,
3762392.5,     212.2,     212.2,       0.0);
     ( 439496.0, 3762392.5,     212.2,     212.2,       0.0);         ( 439546.0,
3762392.5,     212.5,     212.5,       0.0);
     ( 439196.0, 3762442.5,     213.1,     213.1,       0.0);         ( 439246.0,
3762442.5,     213.1,     213.1,       0.0);
     ( 439296.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439346.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439396.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439446.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439496.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439546.0,
3762442.5,     213.4,     213.4,       0.0);
     ( 439196.0, 3762492.5,     213.6,     213.6,       0.0);         ( 439246.0,
3762492.5,     213.5,     213.5,       0.0);
     ( 439296.0, 3762492.5,     213.7,     213.7,       0.0);         ( 439346.0,
3762492.5,     214.0,     214.0,       0.0);
     ( 439396.0, 3762492.5,     213.9,     213.9,       0.0);         ( 439446.0,
3762492.5,     213.9,     213.9,       0.0);
     ( 439496.0, 3762492.5,     214.2,     214.2,       0.0);         ( 439546.0,
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3762492.5, 214.4, 214.4, 0.0);
(439196.0, 3762542.5, 214.1, 214.1, 0.0); (439246.0, 3762542.5, 213.8, 213.8, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439296.0, 3762542.5, 214.0, 214.0, 0.0); (439346.0, 3762542.5, 214.0, 214.0, 0.0);
(439396.0, 3762542.5, 214.2, 214.2, 0.0); (439446.0, 3762542.5, 214.2, 214.2, 0.0);
(439496.0, 3762542.5, 214.7, 214.7, 0.0); (439546.0, 3762542.5, 214.7, 214.7, 0.0);
(439196.0, 3762592.5, 214.6, 214.6, 0.0); (439246.0, 3762592.5, 214.8, 214.8, 0.0);
(439296.0, 3762592.5, 214.7, 214.7, 0.0); (439346.0, 3762592.5, 214.4, 214.4, 0.0);
(439396.0, 3762592.5, 214.4, 214.4, 0.0); (439446.0, 3762592.5, 214.5, 214.5, 0.0);
(439496.0, 3762592.5, 215.1, 215.1, 0.0); (439546.0, 3762592.5, 215.2, 215.2, 0.0);
(439196.0, 3762642.5, 215.1, 215.1, 0.0); (439246.0, 3762642.5, 215.4, 215.4, 0.0);
(439296.0, 3762642.5, 214.9, 214.9, 0.0); (439346.0, 3762642.5, 214.4, 214.4, 0.0);
(439396.0, 3762642.5, 214.6, 214.6, 0.0); (439446.0, 3762642.5, 214.8, 214.8, 0.0);
(439496.0, 3762642.5, 215.5, 215.5, 0.0); (439546.0, 3762642.5, 215.6, 215.6, 0.0);
(439196.0, 3762692.5, 215.8, 215.8, 0.0); (439246.0, 3762692.5, 215.8, 215.8, 0.0);
(439296.0, 3762692.5, 215.9, 215.9, 0.0); (439346.0, 3762692.5, 215.7, 215.7, 0.0);
(439396.0, 3762692.5, 215.1, 215.1, 0.0); (439446.0, 3762692.5, 215.3, 215.3, 0.0);
(439496.0, 3762692.5, 215.9, 215.9, 0.0); (439546.0, 3762692.5, 216.1, 216.1, 0.0);
(439196.0, 3762742.5, 216.5, 216.5, 0.0); (439246.0, 3762742.5, 216.1, 216.1, 0.0);
(439296.0, 3762742.5, 216.3, 216.3, 0.0); (439346.0, 3762742.5, 216.1, 216.1, 0.0);
(439396.0, 3762742.5, 216.0, 216.0, 0.0); (439446.0, 3762742.5, 216.0, 216.0, 0.0);

```
     ( 439496.0, 3762742.5,     216.7,     216.7,       0.0);         ( 439546.0,
3762742.5,     216.8,     216.8,       0.0);
     ( 439196.0, 3762792.5,     217.1,     217.1,       0.0);         ( 439246.0,
3762792.5,     216.4,     216.4,       0.0);
     ( 439296.0, 3762792.5,     216.8,     216.8,       0.0);         ( 439346.0,
3762792.5,     216.8,     216.8,       0.0);
     ( 439396.0, 3762792.5,     216.9,     216.9,       0.0);         ( 439446.0,
3762792.5,     216.7,     216.7,       0.0);
     ( 439496.0, 3762792.5,     217.3,     217.3,       0.0);         ( 439546.0,
3762792.5,     217.4,     217.4,       0.0);
     ( 439196.0, 3762842.5,     217.7,     217.7,       0.0);         ( 439246.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439296.0, 3762842.5,     217.0,     217.0,       0.0);         ( 439346.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439396.0, 3762842.5,     217.2,     217.2,       0.0);         ( 439446.0,
3762842.5,     217.3,     217.3,       0.0);
     ( 439496.0, 3762842.5,     217.9,     217.9,       0.0);         ( 439546.0,
3762842.5,     218.0,     218.0,       0.0);
     ( 439573.3, 3762470.5,     213.7,     213.7,       0.0);         ( 439623.3,
3762470.5,     214.1,     214.1,       0.0);
     ( 439673.3, 3762470.5,     214.2,     214.2,       0.0);         ( 439723.3,
3762470.5,     214.3,     214.3,       0.0);
     ( 439773.3, 3762470.5,     214.4,     214.4,       0.0);         ( 439823.3,
3762470.5,     214.4,     214.4,       0.0);
     ( 439873.3, 3762470.5,     214.7,     214.7,       0.0);         ( 439573.3,
3762520.5,     214.3,     214.3,       0.0);
     ( 439623.3, 3762520.5,     214.5,     214.5,       0.0);         ( 439673.3,
3762520.5,     214.8,     214.8,       0.0);
     ( 439723.3, 3762520.5,     215.1,     215.1,       0.0);         ( 439773.3,
3762520.5,     215.1,     215.1,       0.0);
     ( 439823.3, 3762520.5,     214.8,     214.8,       0.0);         ( 439873.3,
3762520.5,     215.2,     215.2,       0.0);
     ( 439573.3, 3762570.5,     214.8,     214.8,       0.0);         ( 439623.3,
3762570.5,     215.0,     215.0,       0.0);
     ( 439673.3, 3762570.5,     215.4,     215.4,       0.0);         ( 439723.3,
3762570.5,     215.5,     215.5,       0.0);
     ( 439773.3, 3762570.5,     215.5,     215.5,       0.0);         ( 439823.3,
3762570.5,     215.3,     215.3,       0.0);
     ( 439873.3, 3762570.5,     215.9,     215.9,       0.0);         ( 439573.3,
3762620.5,     215.3,     215.3,       0.0);
     ( 439623.3, 3762620.5,     215.6,     215.6,       0.0);         ( 439673.3,
3762620.5,     215.7,     215.7,       0.0);
     ( 439723.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439773.3,
3762620.5,     215.8,     215.8,       0.0);
     ( 439823.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439873.3,
3762620.5,     216.5,     216.5,       0.0);
     ( 439573.3, 3762670.5,     215.8,     215.8,       0.0);         ( 439623.3,
3762670.5,     216.5,     216.5,       0.0);
     ( 439673.3, 3762670.5,     216.5,     216.5,       0.0);         ( 439723.3,
3762670.5,     216.6,     216.6,       0.0);
     ( 439773.3, 3762670.5,     216.8,     216.8,       0.0);         ( 439823.3,
```

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

     (439202.3, 3761448.9,   202.5,   202.5,   0.0);   (439252.3,
3761448.9,   202.5,   202.5,   0.0);
     (439302.3, 3761448.9,   202.4,   202.4,   0.0);   (439352.3,
3761448.9,   202.5,   202.5,   0.0);
     (439402.3, 3761448.9,   202.6,   202.6,   0.0);   (439452.3,
3761448.9,   202.6,   202.6,   0.0);
     (439502.3, 3761448.9,   203.1,   203.1,   0.0);   (439552.3,
3761448.9,   203.1,   203.1,   0.0);
     (439152.3, 3761498.9,   204.0,   204.0,   0.0);   (439202.3,
3761498.9,   203.9,   203.9,   0.0);
     (439252.3, 3761498.9,   204.3,   204.3,   0.0);   (439302.3,
3761498.9,   203.6,   203.6,   0.0);
     (439352.3, 3761498.9,   203.2,   203.2,   0.0);   (439402.3,
3761498.9,   202.9,   202.9,   0.0);
     (439452.3, 3761498.9,   202.7,   202.7,   0.0);   (439502.3,
3761498.9,   203.3,   203.3,   0.0);
     (439552.3, 3761498.9,   203.5,   203.5,   0.0);   (439152.3,
3761548.9,   204.7,   204.7,   0.0);
     (439202.3, 3761548.9,   204.3,   204.3,   0.0);   (439252.3,
3761548.9,   204.4,   204.4,   0.0);
     (439302.3, 3761548.9,   203.7,   203.7,   0.0);   (439352.3,
3761548.9,   203.0,   203.0,   0.0);
     (439402.3, 3761548.9,   203.1,   203.1,   0.0);   (439452.3,
3761548.9,   203.0,   203.0,   0.0);
     (439502.3, 3761548.9,   203.2,   203.2,   0.0);   (439552.3,
3761548.9,   203.6,   203.6,   0.0);
     (439152.3, 3761598.9,   205.2,   205.2,   0.0);   (439202.3,
3761598.9,   204.5,   204.5,   0.0);
     (439252.3, 3761598.9,   204.5,   204.5,   0.0);   (439302.3,
3761598.9,   204.2,   204.2,   0.0);
     (439352.3, 3761598.9,   203.5,   203.5,   0.0);   (439402.3,
3761598.9,   203.6,   203.6,   0.0);
     (439452.3, 3761598.9,   203.8,   203.8,   0.0);   (439502.3,
3761598.9,   203.6,   203.6,   0.0);
     (439552.3, 3761598.9,   204.0,   204.0,   0.0);   (439152.3,
3761648.9,   205.5,   205.5,   0.0);

```
     ( 439202.3, 3761648.9,     205.1,     205.1,       0.0);         ( 439252.3,
3761648.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761648.9,     204.9,     204.9,       0.0);         ( 439352.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439402.3, 3761648.9,     204.5,     204.5,       0.0);         ( 439452.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439502.3, 3761648.9,     204.7,     204.7,       0.0);         ( 439552.3,
3761648.9,     204.9,     204.9,       0.0);
     ( 439152.3, 3761698.9,     206.0,     206.0,       0.0);         ( 439202.3,
3761698.9,     205.4,     205.4,       0.0);
     ( 439252.3, 3761698.9,     204.9,     204.9,       0.0);         ( 439302.3,
3761698.9,     205.0,     205.0,       0.0);
     ( 439352.3, 3761698.9,     205.2,     205.2,       0.0);         ( 439402.3,
3761698.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761698.9,     204.8,     204.8,       0.0);         ( 439502.3,
3761698.9,     205.3,     205.3,       0.0);
     ( 439552.3, 3761698.9,     205.7,     205.7,       0.0);         ( 439152.3,
3761748.9,     206.1,     206.1,       0.0);
     ( 439202.3, 3761748.9,     205.8,     205.8,       0.0);         ( 439252.3,
3761748.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761748.9,     205.2,     205.2,       0.0);         ( 439352.3,
3761748.9,     205.2,     205.2,       0.0);
     ( 439402.3, 3761748.9,     205.4,     205.4,       0.0);         ( 439452.3,
3761748.9,     205.1,     205.1,       0.0);
     ( 439502.3, 3761748.9,     204.8,     204.8,       0.0);         ( 439552.3,
3761748.9,     205.5,     205.5,       0.0);
     ( 439152.3, 3761798.9,     206.4,     206.4,       0.0);         ( 439202.3,
3761798.9,     206.4,     206.4,       0.0);
     ( 439252.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439302.3,
3761798.9,     206.2,     206.2,       0.0);
     ( 439352.3, 3761798.9,     205.6,     205.6,       0.0);         ( 439402.3,
3761798.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439502.3,
3761798.9,     205.2,     205.2,       0.0);
     ( 439552.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439152.3,
3761848.9,     206.9,     206.9,       0.0);
     ( 439202.3, 3761848.9,     206.7,     206.7,       0.0);         ( 439252.3,
3761848.9,     206.1,     206.1,       0.0);
     ( 439302.3, 3761848.9,     206.2,     206.2,       0.0);         ( 439352.3,
3761848.9,     205.6,     205.6,       0.0);
     ( 439402.3, 3761848.9,     206.3,     206.3,       0.0);         ( 439452.3,
3761848.9,     206.3,     206.3,       0.0);
     ( 439502.3, 3761848.9,     205.5,     205.5,       0.0);         ( 439552.3,
3761848.9,     206.3,     206.3,       0.0);
     ( 439152.3, 3761898.9,     207.6,     207.6,       0.0);         ( 439202.3,
3761898.9,     207.2,     207.2,       0.0);
     ( 439252.3, 3761898.9,     206.5,     206.5,       0.0);         ( 439302.3,
3761898.9,     207.1,     207.1,       0.0);
     ( 439352.3, 3761898.9,     206.9,     206.9,       0.0);         ( 439402.3,
3761898.9,     206.7,     206.7,       0.0);
     ( 439452.3, 3761898.9,     207.4,     207.4,       0.0);         ( 439502.3,
```

3761898.9, 207.4, 207.4, 0.0);
(439552.3, 3761898.9, 207.6, 207.6, 0.0); (439152.3,
3761948.9, 208.1, 208.1, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439202.3, 3761948.9, 207.6, 207.6, 0.0); (439252.3,
3761948.9, 206.9, 206.9, 0.0);
(439302.3, 3761948.9, 207.6, 207.6, 0.0); (439352.3,
3761948.9, 207.7, 207.7, 0.0);
(439402.3, 3761948.9, 207.3, 207.3, 0.0); (439452.3,
3761948.9, 208.1, 208.1, 0.0);
(439502.3, 3761948.9, 208.5, 208.5, 0.0); (439552.3,
3761948.9, 208.8, 208.8, 0.0);
(439152.3, 3761998.9, 208.6, 208.6, 0.0); (439202.3,
3761998.9, 207.9, 207.9, 0.0);
(439252.3, 3761998.9, 207.2, 207.2, 0.0); (439302.3,
3761998.9, 208.0, 208.0, 0.0);
(439352.3, 3761998.9, 208.5, 208.5, 0.0); (439402.3,
3761998.9, 208.0, 208.0, 0.0);
(439452.3, 3761998.9, 208.2, 208.2, 0.0); (439502.3,
3761998.9, 208.5, 208.5, 0.0);
(439552.3, 3761998.9, 208.9, 208.9, 0.0); (439152.3,
3762048.9, 209.2, 209.2, 0.0);
(439202.3, 3762048.9, 209.1, 209.1, 0.0); (439252.3,
3762048.9, 209.0, 209.0, 0.0);
(439302.3, 3762048.9, 209.0, 209.0, 0.0); (439352.3,
3762048.9, 209.0, 209.0, 0.0);
(439402.3, 3762048.9, 208.7, 208.7, 0.0); (439452.3,
3762048.9, 209.0, 209.0, 0.0);
(439502.3, 3762048.9, 209.2, 209.2, 0.0); (439552.3,
3762048.9, 209.4, 209.4, 0.0);
(439616.6, 3761420.6, 202.8, 202.8, 0.0); (439666.6,
3761420.6, 203.2, 203.2, 0.0);
(439716.6, 3761420.6, 203.4, 203.4, 0.0); (439766.6,
3761420.6, 203.6, 203.6, 0.0);
(439816.6, 3761420.6, 203.5, 203.5, 0.0); (439866.6,
3761420.6, 203.8, 203.8, 0.0);
(439616.6, 3761470.6, 203.2, 203.2, 0.0); (439666.6,
3761470.6, 203.4, 203.4, 0.0);
(439716.6, 3761470.6, 203.6, 203.6, 0.0); (439766.6,
3761470.6, 203.8, 203.8, 0.0);

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     ( 439816.6, 3761470.6,     203.7,     203.7,       0.0);         ( 439866.6,
3761470.6,     204.3,     204.3,       0.0);
     ( 439616.6, 3761520.6,     203.5,     203.5,       0.0);         ( 439666.6,
3761520.6,     203.7,     203.7,       0.0);
     ( 439716.6, 3761520.6,     204.0,     204.0,       0.0);         ( 439766.6,
3761520.6,     204.4,     204.4,       0.0);
     ( 439816.6, 3761520.6,     204.5,     204.5,       0.0);         ( 439866.6,
3761520.6,     204.9,     204.9,       0.0);
     ( 439616.6, 3761570.6,     204.1,     204.1,       0.0);         ( 439666.6,
3761570.6,     204.4,     204.4,       0.0);
     ( 439716.6, 3761570.6,     204.7,     204.7,       0.0);         ( 439766.6,
3761570.6,     205.2,     205.2,       0.0);
     ( 439816.6, 3761570.6,     205.4,     205.4,       0.0);         ( 439866.6,
3761570.6,     205.5,     205.5,       0.0);
     ( 440451.1, 3762893.8,     220.7,     220.7,       0.0);         ( 440501.1,
3762893.8,     220.6,     220.6,       0.0);
     ( 440551.1, 3762893.8,     220.3,     220.3,       0.0);         ( 440601.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440651.1, 3762893.8,     220.5,     220.5,       0.0);         ( 440701.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440751.1, 3762893.8,     220.2,     220.2,       0.0);         ( 440801.1,
3762893.8,     220.2,     220.2,       0.0);
     ( 440851.1, 3762893.8,     219.8,     219.8,       0.0);         ( 440451.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 440501.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440551.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440601.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440651.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440701.1, 3762943.8,     221.0,     221.0,       0.0);         ( 440751.1,
3762943.8,     220.5,     220.5,       0.0);
     ( 440801.1, 3762943.8,     220.8,     220.8,       0.0);         ( 440851.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 441116.7, 3763135.3,     223.3,     223.3,       0.0);         ( 441166.7,
3763135.3,     222.9,     222.9,       0.0);
     ( 441116.7, 3763185.3,     223.9,     223.9,       0.0);         ( 441166.7,
3763185.3,     223.5,     223.5,       0.0);
     ( 441116.7, 3763235.3,     224.2,     224.2,       0.0);         ( 441166.7,
3763235.3,     223.9,     223.9,       0.0);
     ( 441116.7, 3763285.3,     225.2,     225.2,       0.0);         ( 441166.7,
3763285.3,     224.6,     224.6,       0.0);
     ( 441116.7, 3763335.3,     225.8,     225.8,       0.0);         ( 441166.7,
3763335.3,     225.4,     225.4,       0.0);
     ( 441116.7, 3763385.3,     226.3,     226.3,       0.0);         ( 441166.7,
3763385.3,     226.3,     226.3,       0.0);
     ( 441116.7, 3763435.3,     227.0,     227.0,       0.0);         ( 441166.7,
3763435.3,     226.8,     226.8,       0.0);
     ( 440433.4, 3762815.1,     219.6,     219.6,       0.0);         ( 440483.4,
3762815.1,     219.4,     219.4,       0.0);
     ( 440533.4, 3762815.1,     219.2,     219.2,       0.0);         ( 440583.4,
3762815.1,     219.4,     219.4,       0.0);
     ( 440633.4, 3762815.1,     219.3,     219.3,       0.0);         ( 440683.4,
```

3762815.1,   219.2,   219.2,   0.0);
     (440733.4, 3762815.1,   219.4,   219.4,   0.0);   (440783.4,
3762815.1,   219.2,   219.2,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (440833.4, 3762815.1,   219.4,   219.4,   0.0);   (440883.4,
3762815.1,   219.5,   219.5,   0.0);
     (440933.4, 3762815.1,   219.0,   219.0,   0.0);   (440983.4,
3762815.1,   218.8,   218.8,   0.0);
     (440433.4, 3762865.1,   220.3,   220.3,   0.0);   (440483.4,
3762865.1,   220.1,   220.1,   0.0);
     (440533.4, 3762865.1,   219.9,   219.9,   0.0);   (440583.4,
3762865.1,   219.9,   219.9,   0.0);
     (440633.4, 3762865.1,   220.0,   220.0,   0.0);   (440683.4,
3762865.1,   219.9,   219.9,   0.0);
     (440733.4, 3762865.1,   220.0,   220.0,   0.0);   (440783.4,
3762865.1,   219.9,   219.9,   0.0);
     (440833.4, 3762865.1,   219.6,   219.6,   0.0);   (440883.4,
3762865.1,   219.3,   219.3,   0.0);
     (440933.4, 3762865.1,   219.0,   219.0,   0.0);   (440983.4,
3762865.1,   218.9,   218.9,   0.0);
     (441118.3, 3762686.0,   217.2,   217.2,   0.0);   (441168.3,
3762686.0,   217.0,   217.0,   0.0);
     (441118.3, 3762736.0,   218.2,   218.2,   0.0);   (441168.3,
3762736.0,   217.5,   217.5,   0.0);
     (441118.3, 3762786.0,   218.3,   218.3,   0.0);   (441168.3,
3762786.0,   218.0,   218.0,   0.0);
     (441118.3, 3762836.0,   218.4,   218.4,   0.0);   (441168.3,
3762836.0,   218.3,   218.3,   0.0);
     (440411.7, 3762093.4,   211.8,   211.8,   0.0);   (440461.7,
3762093.4,   211.7,   211.7,   0.0);
     (440511.7, 3762093.4,   211.8,   211.8,   0.0);   (440561.7,
3762093.4,   211.8,   211.8,   0.0);
     (440611.7, 3762093.4,   211.6,   211.6,   0.0);   (440411.7,
3762143.4,   212.7,   212.7,   0.0);
     (440461.7, 3762143.4,   212.3,   212.3,   0.0);   (440511.7,
3762143.4,   212.5,   212.5,   0.0);
     (440561.7, 3762143.4,   212.2,   212.2,   0.0);   (440611.7,
3762143.4,   212.4,   212.4,   0.0);
     (440406.6, 3762008.9,   210.5,   210.5,   0.0);   (440456.6,
3762008.9,   210.7,   210.7,   0.0);

```
     ( 440506.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440556.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440606.6, 3762008.9,     210.7,     210.7,       0.0);         ( 440656.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440706.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440756.6,
3762008.9,     211.0,     211.0,       0.0);
     ( 440806.6, 3762008.9,     210.4,     210.4,       0.0);         ( 440856.6,
3762008.9,     210.6,     210.6,       0.0);
     ( 440906.6, 3762008.9,     211.3,     211.3,       0.0);         ( 440956.6,
3762008.9,     211.2,     211.2,       0.0);
     ( 441006.6, 3762008.9,     211.1,     211.1,       0.0);         ( 441056.6,
3762008.9,     210.5,     210.5,       0.0);
     ( 441106.6, 3762008.9,     210.4,     210.4,       0.0);         ( 441156.6,
3762008.9,     210.4,     210.4,       0.0);
     ( 440406.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440456.6,
3762058.9,     211.2,     211.2,       0.0);
     ( 440506.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440556.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 440606.6, 3762058.9,     211.2,     211.2,       0.0);         ( 440656.6,
3762058.9,     211.4,     211.4,       0.0);
     ( 440706.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440756.6,
3762058.9,     212.0,     212.0,       0.0);
     ( 440806.6, 3762058.9,     211.4,     211.4,       0.0);         ( 440856.6,
3762058.9,     211.5,     211.5,       0.0);
     ( 440906.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440956.6,
3762058.9,     211.7,     211.7,       0.0);
     ( 441006.6, 3762058.9,     211.5,     211.5,       0.0);         ( 441056.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 441106.6, 3762058.9,     211.1,     211.1,       0.0);         ( 441156.6,
3762058.9,     211.1,     211.1,       0.0);
     ( 440191.4, 3762138.4,     211.5,     211.5,       0.0);         ( 440241.4,
3762138.4,     211.7,     211.7,       0.0);
     ( 440291.4, 3762138.4,     212.0,     212.0,       0.0);         ( 440341.4,
3762138.4,     211.6,     211.6,       0.0);
     ( 440191.4, 3762188.4,     212.6,     212.6,       0.0);         ( 440241.4,
3762188.4,     211.8,     211.8,       0.0);
     ( 440291.4, 3762188.4,     213.1,     213.1,       0.0);         ( 440341.4,
3762188.4,     213.1,     213.1,       0.0);
     ( 440191.4, 3762238.4,     213.2,     213.2,       0.0);         ( 440241.4,
3762238.4,     212.4,     212.4,       0.0);
     ( 440291.4, 3762238.4,     213.8,     213.8,       0.0);         ( 440341.4,
3762238.4,     213.6,     213.6,       0.0);
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                           ***          04/03/23
 *** AERMET - VERSION  16216 ***   ***
                           ***         21:31:51

                                    PAGE  21
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                  *** METEOROLOGICAL DAYS SELECTED FOR
```

PROCESSING ***

(1=YES; 0=NO)

```
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74	0.21	1.23	91.	7.9	296.4	2.0
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74	0.20	1.60	90.	7.9	299.9	2.0
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74	0.20	1.98	92.	7.9	302.0	2.0
12	01	01	1	14	94.6	0.185	1.215	0.005	674.	191.	-5.9	0.09	0.74	0.21	1.50	73.	7.9	303.1	2.0
12	01	01	1	15	68.6	0.187	1.184	0.005	858.	194.	-8.4	0.09	0.74	0.25	1.59	64.	7.9	303.1	2.0
12	01	01	1	16	24.9	0.255	0.862	0.005	911.	308.	-58.8	0.09	0.74	0.34	2.61	92.	7.9	300.4	2.0
12	01	01	1	17	-13.7	0.168	-9.000	-9.000	-999.	168.	31.1	0.09	0.74	0.62	1.98	107.	7.9	295.4	2.0
12	01	01	1	18	-26.7	0.279	-9.000	-9.000	-999.	354.	85.6	0.09	0.74	1.00	3.22	134.	7.9	291.4	2.0
12	01	01	1	19	-8.0	0.118	-9.000	-9.000	-999.	120.	18.2	0.09	0.74	1.00	1.43	37.	7.9	290.4	2.0
12	01	01	1	20	-7.7	0.115	-9.000	-9.000	-999.	94.	17.6	0.09	0.74	1.00	1.40	49.	7.9	287.0	2.0
12	01	01	1	21	-9.7	0.130	-9.000	-9.000	-999.	113.	20.2	0.09	0.74	1.00	1.57	26.	7.9	288.8	2.0
12	01	01	1	22	-4.8	0.090	-9.000	-9.000	-999.	65.	13.6	0.09	0.74						

```
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                  INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         440407.86    3761497.84        1.43416                     439943.36
3761716.33        1.98037
         439170.17    3763092.51        0.63646                     439220.17
3763092.51        0.65453
         439270.17    3763092.51        0.68962                     439320.17
3763092.51        0.71843
         439370.17    3763092.51        0.75538                     439420.17
3763092.51        0.80420
         439470.17    3763092.51        0.86003                     439520.17
3763092.51        0.90776
```

```
         439570.17    3763092.51        0.95579                    439620.17
3763092.51        0.98375
         439670.17    3763092.51        1.00964                    439720.17
3763092.51        1.04880
         439770.17    3763092.51        1.09300                    439820.17
3763092.51        1.13378
         439870.17    3763092.51        1.17214                    439170.17
3763142.51        0.59681
         439220.17    3763142.51        0.61773                    439270.17
3763142.51        0.65099
         439320.17    3763142.51        0.67441                    439370.17
3763142.51        0.70818
         439420.17    3763142.51        0.75348                    439470.17
3763142.51        0.78201
         439520.17    3763142.51        0.81656                    439570.17
3763142.51        0.86811
         439620.17    3763142.51        0.90224                    439670.17
3763142.51        0.92634
         439720.17    3763142.51        0.95759                    439770.17
3763142.51        0.99008
         439820.17    3763142.51        1.01876                    439870.17
3763142.51        1.04645
         439170.17    3763192.51        0.56033                    439220.17
3763192.51        0.58352
         439270.17    3763192.51        0.61409                    439320.17
3763192.51        0.63502
         439370.17    3763192.51        0.66620                    439420.17
3763192.51        0.70445
         439470.17    3763192.51        0.72974                    439520.17
3763192.51        0.76128
         439570.17    3763192.51        0.79544                    439620.17
3763192.51        0.83113
         439670.17    3763192.51        0.84793                    439720.17
3763192.51        0.86359
         439770.17    3763192.51        0.88556                    439820.17
3763192.51        0.91189
         439870.17    3763192.51        0.93731                    439170.17
3763242.51        0.52967
         439220.17    3763242.51        0.55180                    439270.17
3763242.51        0.57855
         439320.17    3763242.51        0.60243                    439370.17
3763242.51        0.62929
         439420.17    3763242.51        0.65691                    439470.17
3763242.51        0.67881
         439520.17    3763242.51        0.70642                    439570.17
3763242.51        0.73581
         439620.17    3763242.51        0.76545                    439670.17
3763242.51        0.78241
         439720.17    3763242.51        0.79302                    439770.17
3763242.51        0.80838
         439820.17    3763242.51        0.82462                    439870.17
```

3763242.51 0.84374
  439170.17 3763292.51 0.49892 439220.17
3763292.51 0.51266
  439270.17 3763292.51 0.53399 439320.17
3763292.51 0.55923
  439370.17 3763292.51 0.58910 439420.17
3763292.51 0.60589
  439470.17 3763292.51 0.62474 439520.17
3763292.51 0.64441
  439570.17 3763292.51 0.67682 439620.17
3763292.51 0.69759
  439670.17 3763292.51 0.71718 439720.17
3763292.51 0.72677
  439770.17 3763292.51 0.73193 439820.17
3763292.51 0.74704
  439870.17 3763292.51 0.76548 439170.17
3763342.51 0.47053
  439220.17 3763342.51 0.48405 439270.17
3763342.51 0.50780

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.52811	439370.17	3763342.51	0.55323
439420.17	3763342.51	0.56908	439470.17		

```
3763342.51        0.58402
         439520.17    3763342.51        0.60025                   439570.17
3763342.51        0.62319
         439620.17    3763342.51        0.64623                   439670.17
3763342.51        0.65970
         439720.17    3763342.51        0.66918                   439770.17
3763342.51        0.67050
         439820.17    3763342.51        0.68241                   439870.17
3763342.51        0.69646
         439170.17    3763392.51        0.44415                   439220.17
3763392.51        0.45811
         439270.17    3763392.51        0.47976                   439320.17
3763392.51        0.49268
         439370.17    3763392.51        0.51244                   439420.17
3763392.51        0.52447
         439470.17    3763392.51        0.53764                   439520.17
3763392.51        0.55931
         439570.17    3763392.51        0.57805                   439620.17
3763392.51        0.59780
         439670.17    3763392.51        0.60611                   439720.17
3763392.51        0.61797
         439770.17    3763392.51        0.62060                   439820.17
3763392.51        0.62833
         439870.17    3763392.51        0.63835                   439170.17
3763442.51        0.41984
         439220.17    3763442.51        0.43268                   439270.17
3763442.51        0.45231
         439320.17    3763442.51        0.46676                   439370.17
3763442.51        0.47982
         439420.17    3763442.51        0.49369                   439470.17
3763442.51        0.50496
         439520.17    3763442.51        0.52308                   439570.17
3763442.51        0.53682
         439620.17    3763442.51        0.55230                   439670.17
3763442.51        0.56096
         439720.17    3763442.51        0.56842                   439770.17
3763442.51        0.57246
         439820.17    3763442.51        0.57928                   439870.17
3763442.51        0.58881
         439203.20    3762911.16        0.82338                   439253.20
3762911.16        0.87627
         439303.20    3762911.16        0.93437                   439353.20
3762911.16        0.99877
         439403.20    3762911.16        1.06895                   439453.20
3762911.16        1.14596
         439503.20    3762911.16        1.23114                   439553.20
3762911.16        1.32422
         439203.20    3762961.16        0.79586                   439253.20
3762961.16        0.84195
         439303.20    3762961.16        0.88165                   439353.20
3762961.16        0.94967
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         439403.20    3762961.16        1.02058                      439453.20
3762961.16        1.08151
         439503.20    3762961.16        1.16589                      439553.20
3762961.16        1.24309
         439203.20    3763011.16        0.74190                      439253.20
3763011.16        0.77846
         439303.20    3763011.16        0.81071                      439353.20
3763011.16        0.85472
         439403.20    3763011.16        0.95795                      439453.20
3763011.16        1.00584
         439503.20    3763011.16        1.08518                      439553.20
3763011.16        1.13418
         439203.20    3763061.16        0.68995                      439253.20
3763061.16        0.70145
         439303.20    3763061.16        0.73387                      439353.20
3763061.16        0.77201
         439403.20    3763061.16        0.81839                      439453.20
3763061.16        0.87447
         439503.20    3763061.16        0.96203                      439553.20
3763061.16        0.98104
         439196.01    3762392.48        1.02051                      439246.01
3762392.48        1.10477
         439296.01    3762392.48        1.20067                      439346.01
3762392.48        1.31072
         439396.01    3762392.48        1.43787                      439446.01
3762392.48        1.58568
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:31:51

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                  INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	1.76075	439546.01	3762392.48	1.96992
439196.01	3762442.48	1.01194	439246.01	3762442.48	1.09489
439296.01	3762442.48	1.18984	439346.01	3762442.48	1.29827
439396.01	3762442.48	1.42362	439446.01	3762442.48	1.56980
439496.01	3762442.48	1.74153	439546.01	3762442.48	1.94563
439196.01	3762492.48	0.99968	439246.01	3762492.48	1.08066
439296.01	3762492.48	1.17318	439346.01	3762492.48	1.27909
439396.01	3762492.48	1.40087	439446.01	3762492.48	1.54239
439496.01	3762492.48	1.70904	439546.01	3762492.48	1.90609
439196.01	3762542.48	0.98442	439246.01	3762542.48	1.06292
439296.01	3762542.48	1.15235	439346.01	3762542.48	1.25430
439396.01	3762542.48	1.37173	439446.01	3762542.48	1.50757
439496.01	3762542.48	1.66664	439546.01	3762542.48	1.85357
439196.01	3762592.48	0.96663	439246.01	3762592.48	1.04259
439296.01	3762592.48	1.12843	439346.01	3762592.48	1.22600
439396.01	3762592.48	1.33778	439446.01	3762592.48	1.46682
439496.01	3762592.48	1.61682	439546.01	3762592.48	1.79209
439196.01	3762642.48	0.94676	439246.01	3762642.48	1.01946
439296.01	3762642.48	1.10146	439346.01	3762642.48	1.19416
439396.01	3762642.48	1.30008	439446.01	3762642.48	1.42148
439496.01	3762642.48	1.56136	439546.01	3762642.48	1.72375
439196.01	3762692.48	0.92511	439246.01	3762692.48	0.99439
439296.01	3762692.48	1.07210	439346.01	3762692.48	1.15987
439396.01	3762692.48	1.25937	439446.01		

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3762692.48        1.37246
         439496.01    3762692.48        1.50157                          439546.01
3762692.48        1.65037
         439196.01    3762742.48        0.90197                          439246.01
3762742.48        0.96773
         439296.01    3762742.48        1.04094                          439346.01
3762742.48        1.12322
         439396.01    3762742.48        1.21579                          439446.01
3762742.48        1.32033
         439496.01    3762742.48        1.43841                          439546.01
3762742.48        1.57350
         439196.01    3762792.48        0.87760                          439246.01
3762792.48        0.93972
         439296.01    3762792.48        1.00818                          439346.01
3762792.48        1.08462
         439396.01    3762792.48        1.17013                          439446.01
3762792.48        1.26616
         439496.01    3762792.48        1.37344                          439546.01
3762792.48        1.49489
         439196.01    3762842.48        0.85221                          439246.01
3762842.48        0.91039
         439296.01    3762842.48        0.97431                          439346.01
3762842.48        1.04508
         439396.01    3762842.48        1.12352                          439446.01
3762842.48        1.21089
         439496.01    3762842.48        1.30768                          439546.01
3762842.48        1.41613
         439573.31    3762470.54        2.05022                          439623.31
3762470.54        2.31842
         439673.31    3762470.54        2.64681                          439723.31
3762470.54        3.05567
         439773.31    3762470.54        3.57558                          439823.31
3762470.54        4.25080
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:31:51

                                   PAGE  26
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	5.15498	439573.31	3762520.54	1.99715
439623.31	3762520.54	2.25055	439673.31	3762520.54	2.55914
439723.31	3762520.54	2.94000	439773.31	3762520.54	3.41805
439823.31	3762520.54	4.02950	439873.31	3762520.54	4.83120
439573.31	3762570.54	1.93214	439623.31	3762570.54	2.16811
439673.31	3762570.54	2.45224	439723.31	3762570.54	2.79882
439773.31	3762570.54	3.22749	439823.31	3762570.54	3.76566
439873.31	3762570.54	4.44980	439573.31	3762620.54	1.85831
439623.31	3762620.54	2.07468	439673.31	3762620.54	2.33232
439723.31	3762620.54	2.64179	439773.31	3762620.54	3.01808
439823.31	3762620.54	3.47900	439873.31	3762620.54	4.04607
439573.31	3762670.54	1.77805	439623.31	3762670.54	1.97314
439673.31	3762670.54	2.20340	439723.31	3762670.54	2.47549
439773.31	3762670.54	2.79840	439823.31	3762670.54	3.18493
439873.31	3762670.54	3.64727	439152.35	3761448.92	0.65733
439202.35	3761448.92	0.68562	439252.35	3761448.92	0.71655
439302.35	3761448.92	0.74866	439352.35	3761448.92	0.78206
439402.35	3761448.92	0.81654	439452.35	3761448.92	0.85178
439502.35	3761448.92	0.88901	439552.35	3761448.92	0.92567
439152.35	3761498.92	0.68087	439202.35	3761498.92	0.71325

```
         439252.35    3761498.92        0.74848                      439302.35
3761498.92        0.78272
         439352.35    3761498.92        0.81898                      439402.35
3761498.92        0.85688
         439452.35    3761498.92        0.89607                      439502.35
3761498.92        0.93856
         439552.35    3761498.92        0.98095                      439152.35
3761548.92        0.70444
         439202.35    3761548.92        0.73946                      439252.35
3761548.92        0.77732
         439302.35    3761548.92        0.81526                      439352.35
3761548.92        0.85487
         439402.35    3761548.92        0.89815                      439452.35
3761548.92        0.94301
         439502.35    3761548.92        0.98988                      439552.35
3761548.92        1.03910
         439152.35    3761598.92        0.72790                      439202.35
3761598.92        0.76525
         439252.35    3761598.92        0.80623                      439302.35
3761598.92        0.84922
         439352.35    3761598.92        0.89316                      439402.35
3761598.92        0.94194
         439452.35    3761598.92        0.99335                      439502.35
3761598.92        1.04561
         439552.35    3761598.92        1.10233                      439152.35
3761648.92        0.75080
         439202.35    3761648.92        0.79169                      439252.35
3761648.92        0.83638
         439302.35    3761648.92        0.88398                      439352.35
3761648.92        0.93374
         439402.35    3761648.92        0.98806                      439452.35
3761648.92        1.04523
         439502.35    3761648.92        1.10653                      439552.35
3761648.92        1.17080
         439152.35    3761698.92        0.77364                      439202.35
3761698.92        0.81743
         439252.35    3761698.92        0.86469                      439302.35
3761698.92        0.91710
         439352.35    3761698.92        0.97383                      439402.35
3761698.92        1.03531
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:31:51

                                    PAGE  27
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
```

, L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581
, L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589
, L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597
, L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.09724	439502.35	3761698.92	1.16785
439552.35	3761698.92	1.24229	439152.35	3761748.92	0.79559
439202.35	3761748.92	0.84317	439252.35	3761748.92	0.89336
439302.35	3761748.92	0.95056	439352.35	3761748.92	1.01203
439402.35	3761748.92	1.07908	439452.35	3761748.92	1.15012
439502.35	3761748.92	1.22616	439552.35	3761748.92	1.31222
439152.35	3761798.92	0.81725	439202.35	3761798.92	0.86864
439252.35	3761798.92	0.92360	439302.35	3761798.92	0.98573
439352.35	3761798.92	1.05082	439402.35	3761798.92	1.12364
439452.35	3761798.92	1.20525	439502.35	3761798.92	1.28906
439552.35	3761798.92	1.38704	439152.35	3761848.92	0.83851
439202.35	3761848.92	0.89290	439252.35	3761848.92	0.95130
439302.35	3761848.92	1.01728	439352.35	3761848.92	1.08791
439402.35	3761848.92	1.17028	439452.35	3761848.92	1.25859
439502.35	3761848.92	1.35209	439552.35	3761848.92	1.46282
439152.35	3761898.92	0.85943	439202.35	3761898.92	0.91652
439252.35	3761898.92	0.97859	439302.35		

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3761898.92        1.05074
         439352.35    3761898.92        1.12826                     439402.35
3761898.92        1.21472
         439452.35    3761898.92        1.31440                     439502.35
3761898.92        1.42264
         439552.35    3761898.92        1.54376                     439152.35
3761948.92        0.87889
         439202.35    3761948.92        0.93882                     439252.35
3761948.92        1.00438
         439302.35    3761948.92        1.08158                     439352.35
3761948.92        1.16580
         439402.35    3761948.92        1.25844                     439452.35
3761948.92        1.36710
         439502.35    3761948.92        1.48792                     439552.35
3761948.92        1.62371
         439152.35    3761998.92        0.89707                     439202.35
3761998.92        0.95948
         439252.35    3761998.92        1.02856                     439302.35
3761998.92        1.11039
         439352.35    3761998.92        1.20128                     439402.35
3761998.92        1.30011
         439452.35    3761998.92        1.41514                     439502.35
3761998.92        1.54589
         439552.35    3761998.92        1.69619                     439152.35
3762048.92        0.91371
         439202.35    3762048.92        0.98042                     439252.35
3762048.92        1.05484
         439302.35    3762048.92        1.13873                     439352.35
3762048.92        1.23335
         439402.35    3762048.92        1.33980                     439452.35
3762048.92        1.46311
         439502.35    3762048.92        1.60433                     439552.35
3762048.92        1.76708
         439616.61    3761420.65        0.94013                     439666.61
3761420.65        0.97626
         439716.61    3761420.65        1.01228                     439766.61
3761420.65        1.04830
         439816.61    3761420.65        1.08288                     439866.61
3761420.65        1.11868
         439616.61    3761470.65        0.99972                     439666.61
3761470.65        1.04048
         439716.61    3761470.65        1.08188                     439766.61
3761470.65        1.12343
         439816.61    3761470.65        1.16370                     439866.61
3761470.65        1.20611
         439616.61    3761520.65        1.06416                     439666.61
3761520.65        1.11141
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:31:51
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***

INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	1.15939	439766.61	3761520.65	1.20877
439816.61	3761520.65	1.25637	439866.61	3761520.65	1.30541
439616.61	3761570.65	1.13497	439666.61	3761570.65	1.18985
439716.61	3761570.65	1.24607	439766.61	3761570.65	1.30400
439816.61	3761570.65	1.36121	439866.61	3761570.65	1.41750
440451.14	3762893.83	2.67191	440501.14	3762893.83	2.64169
440551.14	3762893.83	2.63015	440601.14	3762893.83	2.59246
440651.14	3762893.83	2.56329	440701.14	3762893.83	2.54932
440751.14	3762893.83	2.55171	440801.14	3762893.83	2.53874
440851.14	3762893.83	2.53520	440451.14	3762943.83	2.23033
440501.14	3762943.83	2.18030	440551.14	3762943.83	2.18141
440601.14	3762943.83	2.14829	440651.14	3762943.83	2.14500
440701.14	3762943.83	2.14593	440751.14	3762943.83	2.16784

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         440801.14    3762943.83        2.14433                    440851.14
3762943.83        2.12324
         441116.67    3763135.31        1.24246                    441166.67
3763135.31        1.24294
         441116.67    3763185.31        1.10606                    441166.67
3763185.31        1.11086
         441116.67    3763235.31        0.99095                    441166.67
3763235.31        0.99677
         441116.67    3763285.31        0.88585                    441166.67
3763285.31        0.89597
         441116.67    3763335.31        0.79734                    441166.67
3763335.31        0.80618
         441116.67    3763385.31        0.72193                    441166.67
3763385.31        0.72738
         441116.67    3763435.31        0.65529                    441166.67
3763435.31        0.66177
         440433.43    3762815.13        3.99923                    440483.43
3762815.13        3.92306
         440533.43    3762815.13        3.85868                    440583.43
3762815.13        3.73441
         440633.43    3762815.13        3.65839                    440683.43
3762815.13        3.57843
         440733.43    3762815.13        3.47776                    440783.43
3762815.13        3.38550
         440833.43    3762815.13        3.26931                    440883.43
3762815.13        3.14722
         440933.43    3762815.13        3.00748                    440983.43
3762815.13        2.86025
         440433.43    3762865.13        3.02821                    440483.43
3762865.13        3.11748
         440533.43    3762865.13        3.08521                    440583.43
3762865.13        3.02465
         440633.43    3762865.13        2.96251                    440683.43
3762865.13        2.92994
         440733.43    3762865.13        2.88016                    440783.43
3762865.13        2.84275
         440833.43    3762865.13        2.79500                    440883.43
3762865.13        2.72511
         440933.43    3762865.13        2.63772                    440983.43
3762865.13        2.54066
         441118.27    3762686.02        2.99822                    441168.27
3762686.02        2.77215
         441118.27    3762736.02        2.80274                    441168.27
3762736.02        2.61224
         441118.27    3762786.02        2.59502                    441168.27
3762786.02        2.43803
         441118.27    3762836.02        2.38011                    441168.27
3762836.02        2.25573
         440411.67    3762093.41        8.19287                    440461.67
3762093.41        7.35484
         440511.67    3762093.41        6.59397                    440561.67
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3762093.41 5.92393
 440611.67 3762093.41 5.34584 440411.67
3762143.41 10.73948

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	9.40397	440511.67	3762143.41	8.27022
440561.67	3762143.41	7.30284	440611.67	3762143.41	6.50658
440406.61	3762008.86	5.63180	440456.61	3762008.86	5.22517
440506.61	3762008.86	4.80568	440556.61	3762008.86	4.40497
440606.61	3762008.86	4.04453	440656.61	3762008.86	3.72604
440706.61	3762008.86	3.44719	440756.61	3762008.86	3.20139
440806.61	3762008.86	2.97277	440856.61	3762008.86	2.77776
440906.61	3762008.86	2.60551	440956.61	3762008.86	2.44151
441006.61	3762008.86	2.29226	441056.61	3762008.86	2.15244
441106.61	3762008.86	2.02704	441156.61		

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3762008.86        1.91221
         440406.61    3762058.86        7.00391                        440456.61
3762058.86        6.38292
         440506.61    3762058.86        5.78621                        440556.61
3762058.86        5.24507
         440606.61    3762058.86        4.76890                        440656.61
3762058.86        4.36039
         440706.61    3762058.86        4.00877                        440756.61
3762058.86        3.69583
         440806.61    3762058.86        3.40932                        440856.61
3762058.86        3.16168
         440906.61    3762058.86        2.94083                        440956.61
3762058.86        2.73737
         441006.61    3762058.86        2.55236                        441056.61
3762058.86        2.38477
         441106.61    3762058.86        2.23236                        441156.61
3762058.86        2.09387
         440191.38    3762138.44       12.03481                        440241.38
3762138.44       12.93805
         440291.38    3762138.44       12.97724                        440341.38
3762138.44       12.11165
         440191.38    3762188.44       17.30245                        440241.38
3762188.44       19.15800
         440291.38    3762188.44       19.41626                        440341.38
3762188.44       17.59690
         440191.38    3762238.44       26.90355                        440241.38
3762238.44       32.62897
         440291.38    3762238.44       33.06517                        440341.38
3762238.44       27.92428
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:31:51

                                   PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
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Y-COORD (M)        CONC
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         439220.17    3763242.51        0.56621                       439270.17
3763242.51        0.59405
         439320.17    3763242.51        0.61916                       439370.17
3763242.51        0.64733
         439420.17    3763242.51        0.67637                       439470.17
3763242.51        0.69980
         439520.17    3763242.51        0.72902                       439570.17
3763242.51        0.76015
         439620.17    3763242.51        0.79162                       439670.17
3763242.51        0.81024
         439720.17    3763242.51        0.82236                       439770.17
3763242.51        0.83916
         439820.17    3763242.51        0.85675                       439870.17
3763242.51        0.87728
         439170.17    3763292.51        0.51144                       439220.17
3763292.51        0.52608
         439270.17    3763292.51        0.54838                       439320.17
3763292.51        0.57465
         439370.17    3763292.51        0.60563                       439420.17
3763292.51        0.62357
         439470.17    3763292.51        0.64365                       439520.17
3763292.51        0.66460
         439570.17    3763292.51        0.69849                       439620.17
3763292.51        0.72066
         439670.17    3763292.51        0.74164                       439720.17
3763292.51        0.75234
         439770.17    3763292.51        0.75830                       439820.17
3763292.51        0.77449
         439870.17    3763292.51        0.79412                       439170.17
3763342.51        0.48217
         439220.17    3763342.51        0.49645                       439270.17
3763342.51        0.52105
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:31:51

                                    PAGE  31
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                    INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.54225	439370.17	3763342.51	0.56832
439420.17	3763342.51	0.58515	439470.17	3763342.51	0.60109
439520.17	3763342.51	0.61837	439570.17	3763342.51	0.64247
439620.17	3763342.51	0.66672	439670.17	3763342.51	0.68121
439720.17	3763342.51	0.69153	439770.17	3763342.51	0.69338
439820.17	3763342.51	0.70614	439870.17	3763342.51	0.72108
439170.17	3763392.51	0.45492	439220.17	3763392.51	0.46953
439270.17	3763392.51	0.49194	439320.17	3763392.51	0.50557
439370.17	3763392.51	0.52615	439420.17	3763392.51	0.53893
439470.17	3763392.51	0.55290	439520.17	3763392.51	0.57555
439570.17	3763392.51	0.59524	439620.17	3763392.51	0.61596
439670.17	3763392.51	0.62497	439720.17	3763392.51	0.63757
439770.17	3763392.51	0.64069	439820.17	3763392.51	0.64906
439870.17	3763392.51	0.65975	439170.17	3763442.51	0.42977
439220.17	3763442.51	0.44316	439270.17	3763442.51	0.46347
439320.17	3763442.51	0.47855	439370.17	3763442.51	0.49226
439420.17	3763442.51	0.50681	439470.17	3763442.51	0.51872
439520.17	3763442.51	0.53766	439570.17	3763442.51	0.55212
439620.17	3763442.51	0.56835	439670.17	3763442.51	0.57759
439720.17	3763442.51	0.58560	439770.17	3763442.51	0.59011
439820.17	3763442.51	0.59747	439870.17	3763442.51	0.60755
439203.20	3762911.16	0.84918	439253.20	3762911.16	0.90513
439303.20	3762911.16	0.96678	439353.20		

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3762911.16        1.03529
         439403.20    3762911.16        1.11026                        439453.20
3762911.16        1.19286
         439503.20    3762911.16        1.28457                        439553.20
3762911.16        1.38529
         439203.20    3762961.16        0.82091                        439253.20
3762961.16        0.87284
         439303.20    3762961.16        0.92942                        439353.20
3762961.16        0.99172
         439403.20    3762961.16        1.05992                        439453.20
3762961.16        1.13422
         439503.20    3762961.16        1.21601                        439553.20
3762961.16        1.30485
         439203.20    3763011.16        0.76855                        439253.20
3763011.16        0.80551
         439303.20    3763011.16        0.84424                        439353.20
3763011.16        0.88558
         439403.20    3763011.16        1.01054                        439453.20
3763011.16        1.06557
         439503.20    3763011.16        1.14971                        439553.20
3763011.16        1.19979
         439203.20    3763061.16        0.71406                        439253.20
3763061.16        0.73379
         439303.20    3763061.16        0.77324                        439353.20
3763061.16        0.80585
         439403.20    3763061.16        0.86580                        439453.20
3763061.16        0.93282
         439503.20    3763061.16        1.00606                        439553.20
3763061.16        1.05098
         439196.01    3762392.48        1.04278                        439246.01
3762392.48        1.12991
         439296.01    3762392.48        1.22918                        439346.01
3762392.48        1.34326
         439396.01    3762392.48        1.47524                        439446.01
3762392.48        1.62883
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:31:51

                                   PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	1.81124	439546.01	3762392.48	2.02972
439196.01	3762442.48	1.03599	439246.01	3762442.48	1.12211
439296.01	3762442.48	1.22094	439346.01	3762442.48	1.33392
439396.01	3762442.48	1.46479	439446.01	3762442.48	1.61779
439496.01	3762442.48	1.79794	439546.01	3762442.48	2.01263
439196.01	3762492.48	1.02519	439246.01	3762492.48	1.10953
439296.01	3762492.48	1.20619	439346.01	3762492.48	1.31708
439396.01	3762492.48	1.44481	439446.01	3762492.48	1.59365
439496.01	3762492.48	1.76973	439546.01	3762492.48	1.97857
439196.01	3762542.48	1.01102	439246.01	3762542.48	1.09297
439296.01	3762542.48	1.18668	439346.01	3762542.48	1.29370
439396.01	3762542.48	1.41743	439446.01	3762542.48	1.56095
439496.01	3762542.48	1.72991	439546.01	3762542.48	1.92896
439196.01	3762592.48	0.99392	439246.01	3762592.48	1.07355
439296.01	3762592.48	1.16366	439346.01	3762592.48	1.26632
439396.01	3762592.48	1.38432	439446.01	3762592.48	1.52115
439496.01	3762592.48	1.68108	439546.01	3762592.48	1.86849
439196.01	3762642.48	0.97434	439246.01	3762642.48	1.05071
439296.01	3762642.48	1.13686	439346.01	3762642.48	1.23453
439396.01	3762642.48	1.34671	439446.01	3762642.48	1.47580
439496.01	3762642.48	1.62540	439546.01	3762642.48	1.79968

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         439196.01    3762692.48        0.95268                      439246.01
3762692.48        1.02552
         439296.01    3762692.48        1.10747                      439346.01
3762692.48        1.20024
         439396.01    3762692.48        1.30559                      439446.01
3762692.48        1.42612
         439496.01    3762692.48        1.56459                      439546.01
3762692.48        1.72475
         439196.01    3762742.48        0.92929                      439246.01
3762742.48        0.99847
         439296.01    3762742.48        1.07580                      439346.01
3762742.48        1.16292
         439396.01    3762742.48        1.26131                      439446.01
3762742.48        1.37294
         439496.01    3762742.48        1.49980                      439546.01
3762742.48        1.64551
         439196.01    3762792.48        0.90447                      439246.01
3762792.48        0.96988
         439296.01    3762792.48        1.04234                      439346.01
3762792.48        1.12346
         439396.01    3762792.48        1.21453                      439446.01
3762792.48        1.31721
         439496.01    3762792.48        1.43259                      439546.01
3762792.48        1.56380
         439196.01    3762842.48        0.87852                      439246.01
3762842.48        0.93989
         439296.01    3762842.48        1.00757                      439346.01
3762842.48        1.08277
         439396.01    3762842.48        1.16645                      439446.01
3762842.48        1.26002
         439496.01    3762842.48        1.36419                      439546.01
3762842.48        1.48145
         439573.31    3762470.54        2.12769                      439623.31
3762470.54        2.41296
         439673.31    3762470.54        2.76383                      439723.31
3762470.54        3.20283
         439773.31    3762470.54        3.76497                      439823.31
3762470.54        4.50040
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:31:51

                                    PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE  ***
                                    INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
```

, L0013638   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	5.49642	439573.31	3762520.54	2.07916
439623.31	3762520.54	2.35049	439673.31	3762520.54	2.68302
439723.31	3762520.54	3.09620	439773.31	3762520.54	3.61875
439823.31	3762520.54	4.29261	439873.31	3762520.54	5.18988
439573.31	3762570.54	2.01620	439623.31	3762570.54	2.27031
439673.31	3762570.54	2.57845	439723.31	3762570.54	2.95700
439773.31	3762570.54	3.42935	439823.31	3762570.54	4.02870
439873.31	3762570.54	4.80378	439573.31	3762620.54	1.94240
439623.31	3762620.54	2.17648	439673.31	3762620.54	2.45709
439723.31	3762620.54	2.79708	439773.31	3762620.54	3.21414
439823.31	3762620.54	3.73144	439873.31	3762620.54	4.37884
439573.31	3762670.54	1.86071	439623.31	3762670.54	2.07281
439673.31	3762670.54	2.32449	439723.31	3762670.54	2.62450
439773.31	3762670.54	2.98437	439823.31	3762670.54	3.42014
439873.31	3762670.54	3.94906	439152.35	3761448.92	0.65387
439202.35	3761448.92	0.68115	439252.35	3761448.92	0.71099
439302.35	3761448.92	0.74187	439352.35	3761448.92	0.77393
439402.35	3761448.92	0.80695	439452.35	3761448.92	0.84063
439502.35	3761448.92	0.87623	439552.35	3761448.92	0.91114
439152.35	3761498.92	0.67802	439202.35		

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3761498.92        0.70942
         439252.35    3761498.92        0.74354                        439302.35
3761498.92        0.77643
         439352.35    3761498.92        0.81120                        439402.35
3761498.92        0.84746
         439452.35    3761498.92        0.88486                        439502.35
3761498.92        0.92545
         439552.35    3761498.92        0.96579                        439152.35
3761548.92        0.70231
         439202.35    3761548.92        0.73635                        439252.35
3761548.92        0.77307
         439302.35    3761548.92        0.80961                        439352.35
3761548.92        0.84761
         439402.35    3761548.92        0.88911                        439452.35
3761548.92        0.93197
         439502.35    3761548.92        0.97664                        439552.35
3761548.92        1.02348
         439152.35    3761598.92        0.72658                        439202.35
3761598.92        0.76297
         439252.35    3761598.92        0.80282                        439302.35
3761598.92        0.84443
         439352.35    3761598.92        0.88669                        439402.35
3761598.92        0.93357
         439452.35    3761598.92        0.98280                        439502.35
3761598.92        1.03256
         439552.35    3761598.92        1.08654                        439152.35
3761648.92        0.75037
         439202.35    3761648.92        0.79038                        439252.35
3761648.92        0.83400
         439302.35    3761648.92        0.88027                        439352.35
3761648.92        0.92835
         439402.35    3761648.92        0.98069                        439452.35
3761648.92        1.03551
         439502.35    3761648.92        1.09410                        439552.35
3761648.92        1.15525
         439152.35    3761698.92        0.77417                        439202.35
3761698.92        0.81716
         439252.35    3761698.92        0.86340                        439302.35
3761698.92        0.91458
         439352.35    3761698.92        0.96975                        439402.35
3761698.92        1.02930
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

                                  PAGE  34
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
```

INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.08873	439502.35	3761698.92	1.15647
439552.35	3761698.92	1.22748	439152.35	3761748.92	0.79711
439202.35	3761748.92	0.84406	439252.35	3761748.92	0.89332
439302.35	3761748.92	0.94943	439352.35	3761748.92	1.00944
439402.35	3761748.92	1.07462	439452.35	3761748.92	1.14321
439502.35	3761748.92	1.21620	439552.35	3761748.92	1.29863
439152.35	3761798.92	0.81985	439202.35	3761798.92	0.87077
439252.35	3761798.92	0.92501	439302.35	3761798.92	0.98625
439352.35	3761798.92	1.04997	439402.35	3761798.92	1.12104
439452.35	3761798.92	1.20044	439502.35	3761798.92	1.28115
439552.35	3761798.92	1.37543	439152.35	3761848.92	0.84225
439202.35	3761848.92	0.89633	439252.35	3761848.92	0.95416
439302.35	3761848.92	1.01944	439352.35	3761848.92	1.08893
439402.35	3761848.92	1.16994	439452.35	3761848.92	1.25620
439502.35	3761848.92	1.34676	439552.35	3761848.92	1.45391
439152.35	3761898.92	0.86440	439202.35	3761898.92	0.92133
439252.35	3761898.92	0.98304	439302.35	3761898.92	1.05482
439352.35	3761898.92	1.13155	439402.35	3761898.92	1.21684

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         439452.35    3761898.92        1.31499                      439502.35
3761898.92        1.42080
         439552.35    3761898.92        1.53852                      439152.35
3761948.92        0.88512
         439202.35    3761948.92        0.94506                      439252.35
3761948.92        1.01047
         439302.35    3761948.92        1.08764                      439352.35
3761948.92        1.17147
         439402.35    3761948.92        1.26328                      439452.35
3761948.92        1.37092
         439502.35    3761948.92        1.48995                      439552.35
3761948.92        1.62295
         439152.35    3761998.92        0.90460                      439202.35
3761998.92        0.96719
         439252.35    3761998.92        1.03635                      439302.35
3761998.92        1.11850
         439352.35    3761998.92        1.20947                      439402.35
3761998.92        1.30787
         439452.35    3761998.92        1.42231                      439502.35
3761998.92        1.55189
         439552.35    3761998.92        1.70024                      439152.35
3762048.92        0.92260
         439202.35    3762048.92        0.98983                      439252.35
3762048.92        1.06475
         439302.35    3762048.92        1.14913                      439352.35
3762048.92        1.24413
         439402.35    3762048.92        1.35073                      439452.35
3762048.92        1.47410
         439502.35    3762048.92        1.61494                      439552.35
3762048.92        1.77662
         439616.61    3761420.65        0.92383                      439666.61
3761420.65        0.95814
         439716.61    3761420.65        0.99218                      439766.61
3761420.65        1.02601
         439816.61    3761420.65        1.05819                      439866.61
3761420.65        1.09136
         439616.61    3761470.65        0.98234                      439666.61
3761470.65        1.02097
         439716.61    3761470.65        1.06007                      439766.61
3761470.65        1.09910
         439816.61    3761470.65        1.13658                      439866.61
3761470.65        1.17592
         439616.61    3761520.65        1.04575                      439666.61
3761520.65        1.09048
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:31:51

                                  PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***

INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	1.13575	439766.61	3761520.65	1.18217
439816.61	3761520.65	1.22651	439866.61	3761520.65	1.27196
439616.61	3761570.65	1.11567	439666.61	3761570.65	1.16754
439716.61	3761570.65	1.22053	439766.61	3761570.65	1.27494
439816.61	3761570.65	1.32829	439866.61	3761570.65	1.38031
440451.14	3762893.83	2.89373	440501.14	3762893.83	2.89724
440551.14	3762893.83	2.89805	440601.14	3762893.83	2.82528
440651.14	3762893.83	2.79862	440701.14	3762893.83	2.77504
440751.14	3762893.83	2.76694	440801.14	3762893.83	2.72559
440851.14	3762893.83	2.68265	440451.14	3762943.83	2.37988
440501.14	3762943.83	2.34107	440551.14	3762943.83	2.36249
440601.14	3762943.83	2.30225	440651.14	3762943.83	2.32338
440701.14	3762943.83	2.31996	440751.14	3762943.83	2.33767
440801.14	3762943.83	2.30202	440851.14	3762943.83	2.27351
441116.67	3763135.31	1.30675	441166.67	3763135.31	1.30349
441116.67	3763185.31	1.16260	441166.67	3763185.31	1.16536
441116.67	3763235.31	1.03988	441166.67		

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3763235.31        1.04480
         441116.67    3763285.31        0.92818                    441166.67
3763285.31        0.93791
         441116.67    3763335.31        0.83389                    441166.67
3763335.31        0.84272
         441116.67    3763385.31        0.75348                    441166.67
3763385.31        0.75923
         441116.67    3763435.31        0.68261                    441166.67
3763435.31        0.68948
         440433.43    3762815.13        4.36305                    440483.43
3762815.13        4.28138
         440533.43    3762815.13        4.23791                    440583.43
3762815.13        4.08930
         440633.43    3762815.13        4.00807                    440683.43
3762815.13        3.89061
         440733.43    3762815.13        3.74687                    440783.43
3762815.13        3.61479
         440833.43    3762815.13        3.44951                    440883.43
3762815.13        3.28856
         440933.43    3762815.13        3.11666                    440983.43
3762815.13        2.94498
         440433.43    3762865.13        3.37038                    440483.43
3762865.13        3.30508
         440533.43    3762865.13        3.28627                    440583.43
3762865.13        3.22931
         440633.43    3762865.13        3.17890                    440683.43
3762865.13        3.13697
         440733.43    3762865.13        3.08439                    440783.43
3762865.13        3.03211
         440833.43    3762865.13        2.96351                    440883.43
3762865.13        2.86985
         440933.43    3762865.13        2.75731                    440983.43
3762865.13        2.63555
         441118.27    3762686.02        2.97821                    441168.27
3762686.02        2.74886
         441118.27    3762736.02        2.80585                    441168.27
3762736.02        2.60793
         441118.27    3762786.02        2.61835                    441168.27
3762786.02        2.45092
         441118.27    3762836.02        2.42020                    441168.27
3762836.02        2.28357
         440411.67    3762093.41        7.19137                    440461.67
3762093.41        6.48211
         440511.67    3762093.41        5.84624                    440561.67
3762093.41        5.28752
         440611.67    3762093.41        4.80346                    440411.67
3762143.41        9.21251
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:31:51
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	8.12108	440511.67	3762143.41	7.20617
440561.67	3762143.41	6.42353	440611.67	3762143.41	5.77477
440406.61	3762008.86	5.07645	440456.61	3762008.86	4.71715
440506.61	3762008.86	4.35208	440556.61	3762008.86	4.00531
440606.61	3762008.86	3.69375	440656.61	3762008.86	3.41776
440706.61	3762008.86	3.17512	440756.61	3762008.86	2.96007
440806.61	3762008.86	2.75813	440856.61	3762008.86	2.58563
440906.61	3762008.86	2.43287	440956.61	3762008.86	2.28614
441006.61	3762008.86	2.15210	441056.61	3762008.86	2.02580
441106.61	3762008.86	1.91234	441156.61	3762008.86	1.80815
440406.61	3762058.86	6.22291	440456.61	3762058.86	5.68635
440506.61	3762058.86	5.17801	440556.61	3762058.86	4.71912
440606.61	3762058.86	4.31471	440656.61	3762058.86	3.96643
440706.61	3762058.86	3.66506	440756.61	3762058.86	3.39457
440806.61	3762058.86	3.14432	440856.61	3762058.86	2.92738

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2OFFSIT ***
INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 ,
L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 ,
L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 ,
L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	1.57375	439943.36	3761716.33	1.46133
439170.17	3763092.51	0.64892	439220.17	3763092.51	0.68951
440906.61	3762058.86	2.73300	440956.61	3762058.86	2.55258
441006.61	3762058.86	2.38764	441056.61	3762058.86	2.23757
441106.61	3762058.86	2.10052	441156.61	3762058.86	1.97549
440191.38	3762138.44	10.74853	440241.38	3762138.44	11.32316
440291.38	3762138.44	11.20436	440341.38	3762138.44	10.39712
440191.38	3762188.44	15.14603	440241.38	3762188.44	16.24069
440291.38	3762188.44	16.16158	440341.38	3762188.44	14.57909
440191.38	3762238.44	22.91794	440241.38	3762238.44	26.10954
440291.38	3762238.44	25.81470	440341.38	3762238.44	21.85662

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         439270.17    3763092.51        0.73902                    439320.17
3763092.51        0.79222
         439370.17    3763092.51        0.85471                    439420.17
3763092.51        0.92860
         439470.17    3763092.51        1.01558                    439520.17
3763092.51        1.11418
         439570.17    3763092.51        1.22975                    439620.17
3763092.51        1.36462
         439670.17    3763092.51        1.52647                    439720.17
3763092.51        1.72550
         439770.17    3763092.51        1.96863                    439820.17
3763092.51        2.25428
         439870.17    3763092.51        2.57304                    439170.17
3763142.51        0.62741
         439220.17    3763142.51        0.66632                    439270.17
3763142.51        0.71269
         439320.17    3763142.51        0.76185                    439370.17
3763142.51        0.81968
         439420.17    3763142.51        0.88762                    439470.17
3763142.51        0.96109
         439520.17    3763142.51        1.04683                    439570.17
3763142.51        1.15016
         439620.17    3763142.51        1.26658                    439670.17
3763142.51        1.39827
         439720.17    3763142.51        1.55409                    439770.17
3763142.51        1.73013
         439820.17    3763142.51        1.92711                    439870.17
3763142.51        2.14215
         439170.17    3763192.51        0.60574                    439220.17
3763192.51        0.64304
         439270.17    3763192.51        0.68626                    439320.17
3763192.51        0.73078
         439370.17    3763192.51        0.78435                    439420.17
3763192.51        0.84573
         439470.17    3763192.51        0.91092                    439520.17
3763192.51        0.98666
         439570.17    3763192.51        1.07346                    439620.17
3763192.51        1.17260
         439670.17    3763192.51        1.27492                    439720.17
3763192.51        1.38780
         439770.17    3763192.51        1.51853                    439820.17
3763192.51        1.66317
         439870.17    3763192.51        1.81456                    439170.17
3763242.51        0.58401
         439220.17    3763242.51        0.61899                    439270.17
3763242.51        0.65864
         439320.17    3763242.51        0.70126                    439370.17
3763242.51        0.74921
         439420.17    3763242.51        0.80253                    439470.17
3763242.51        0.86015
         439520.17    3763242.51        0.92567                    439570.17
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3763242.51        1.00054
         439620.17    3763242.51        1.08336                      439670.17
3763242.51        1.16437
         439720.17    3763242.51        1.25176                      439770.17
3763242.51        1.34877
         439820.17    3763242.51        1.45180                      439870.17
3763242.51        1.55969
         439170.17    3763292.51        0.55834                      439220.17
3763292.51        0.58647
         439270.17    3763292.51        0.62176                      439320.17
3763292.51        0.66298
         439370.17    3763292.51        0.71088                      439420.17
3763292.51        0.75326
         439470.17    3763292.51        0.80154                      439520.17
3763292.51        0.85548
         439570.17    3763292.51        0.92368                      439620.17
3763292.51        0.99015
         439670.17    3763292.51        1.06181                      439720.17
3763292.51        1.12974
         439770.17    3763292.51        1.19611                      439820.17
3763292.51        1.27426
         439870.17    3763292.51        1.35734                      439170.17
3763342.51        0.53395
         439220.17    3763342.51        0.55979                      439270.17
3763342.51        0.59595
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

                                  PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2OFFSIT ***
                                  INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
                  L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                  L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                  L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M)        CONC
 - - -
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         439503.20    3762911.16        1.26966                      439553.20
3762911.16        1.42074
         439203.20    3762961.16        0.73321                      439253.20
3762961.16        0.78763
         439303.20    3762961.16        0.84801                      439353.20
3762961.16        0.92106
         439403.20    3762961.16        1.00602                      439453.20
3762961.16        1.10359
         439503.20    3762961.16        1.22440                      439553.20
3762961.16        1.36765
         439203.20    3763011.16        0.71166                      439253.20
3763011.16        0.76268
         439303.20    3763011.16        0.82007                      439353.20
3763011.16        0.88663
         439403.20    3763011.16        0.97198                      439453.20
3763011.16        1.06296
         439503.20    3763011.16        1.17448                      439553.20
3763011.16        1.30440
         439203.20    3763061.16        0.68954                      439253.20
3763061.16        0.73622
         439303.20    3763061.16        0.79029                      439353.20
3763061.16        0.85257
         439403.20    3763061.16        0.92637                      439453.20
3763061.16        1.01271
         439503.20    3763061.16        1.11430                      439553.20
3763061.16        1.23154
         439196.01    3762392.48        0.79564                      439246.01
3762392.48        0.85085
         439296.01    3762392.48        0.91197                      439346.01
3762392.48        0.97996
         439396.01    3762392.48        1.05566                      439446.01
3762392.48        1.13978
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:31:51

                                    PAGE  39
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2OFFSIT ***
                                    INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
                  L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                  L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                  L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	1.23485	439546.01	3762392.48	1.34209
439196.01	3762442.48	0.80146	439246.01	3762442.48	0.85805
439296.01	3762442.48	0.92165	439346.01	3762442.48	0.99222
439396.01	3762442.48	1.07138	439446.01	3762442.48	1.16048
439496.01	3762442.48	1.26058	439546.01	3762442.48	1.37345
439196.01	3762492.48	0.80585	439246.01	3762492.48	0.86361
439296.01	3762492.48	0.92880	439346.01	3762492.48	1.00204
439396.01	3762492.48	1.08414	439446.01	3762492.48	1.17695
439496.01	3762492.48	1.28329	439546.01	3762492.48	1.40370
439196.01	3762542.48	0.80882	439246.01	3762542.48	0.86752
439296.01	3762542.48	0.93406	439346.01	3762542.48	1.00889
439396.01	3762542.48	1.09419	439446.01	3762542.48	1.19112
439496.01	3762542.48	1.30321	439546.01	3762542.48	1.43060
439196.01	3762592.48	0.81015	439246.01	3762592.48	0.87038
439296.01	3762592.48	0.93792	439346.01	3762592.48	1.01424
439396.01	3762592.48	1.10155	439446.01	3762592.48	1.20229
439496.01	3762592.48	1.31998	439546.01	3762592.48	1.45505
439196.01	3762642.48	0.80974	439246.01	3762642.48	0.87069
439296.01	3762642.48	0.93868	439346.01	3762642.48	1.01604
439396.01	3762642.48	1.10589	439446.01	3762642.48	1.21001
439496.01	3762642.48	1.33270	439546.01		

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3762642.48        1.47559
         439196.01    3762692.48        0.80734                          439246.01
3762692.48        0.86839
         439296.01    3762692.48        0.93787                          439346.01
3762692.48        1.01688
         439396.01    3762692.48        1.10718                          439446.01
3762692.48        1.21383
         439496.01    3762692.48        1.34090                          439546.01
3762692.48        1.49101
         439196.01    3762742.48        0.80178                          439246.01
3762742.48        0.86346
         439296.01    3762742.48        0.93312                          439346.01
3762742.48        1.01262
         439396.01    3762742.48        1.10483                          439446.01
3762742.48        1.21317
         439496.01    3762742.48        1.32958                          439546.01
3762742.48        1.48392
         439196.01    3762792.48        0.77828                          439246.01
3762792.48        0.85482
         439296.01    3762792.48        0.91413                          439346.01
3762792.48        0.99087
         439396.01    3762792.48        1.08220                          439446.01
3762792.48        1.19353
         439496.01    3762792.48        1.31114                          439546.01
3762792.48        1.46767
         439196.01    3762842.48        0.76574                          439246.01
3762842.48        0.82830
         439296.01    3762842.48        0.89559                          439346.01
3762842.48        0.97252
         439396.01    3762842.48        1.06025                          439446.01
3762842.48        1.16663
         439496.01    3762842.48        1.29149                          439546.01
3762842.48        1.44725
         439573.31    3762470.54        1.45998                          439623.31
3762470.54        1.60307
         439673.31    3762470.54        1.76493                          439723.31
3762470.54        1.94795
         439773.31    3762470.54        2.15626                          439823.31
3762470.54        2.39214
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:31:51

                                    PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2OFFSIT ***
                                    INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
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                 L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                 L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                 L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439873.31    3762470.54        2.66351                       439573.31
3762520.54        1.49331
         439623.31    3762520.54        1.64665                       439673.31
3762520.54        1.82289
         439723.31    3762520.54        2.02432                       439773.31
3762520.54        2.25264
         439823.31    3762520.54        2.50823                       439873.31
3762520.54        2.80464
         439573.31    3762570.54        1.52456                       439623.31
3762570.54        1.69088
         439673.31    3762570.54        1.88447                       439723.31
3762570.54        2.10765
         439773.31    3762570.54        2.36354                       439823.31
3762570.54        2.65390
         439873.31    3762570.54        2.98924                       439573.31
3762620.54        1.55292
         439623.31    3762620.54        1.73377                       439673.31
3762620.54        1.94744
         439723.31    3762620.54        2.20092                       439773.31
3762620.54        2.49639
         439823.31    3762620.54        2.84011                       439873.31
3762620.54        3.22804
         439573.31    3762670.54        1.57668                       439623.31
3762670.54        1.76733
         439673.31    3762670.54        2.00637                       439723.31
3762670.54        2.29363
         439773.31    3762670.54        2.63646                       439823.31
3762670.54        3.05981
         439873.31    3762670.54        3.54711                       439152.35
3761448.92        0.51937
         439202.35    3761448.92        0.53946                       439252.35
3761448.92        0.56168
         439302.35    3761448.92        0.58513                       439352.35
3761448.92        0.61002
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         439402.35    3761448.92        0.63637                     439452.35
3761448.92        0.66409
         439502.35    3761448.92        0.69417                     439552.35
3761448.92        0.72501
         439152.35    3761498.92        0.53415                     439202.35
3761498.92        0.55644
         439252.35    3761498.92        0.58089                     439302.35
3761498.92        0.60502
         439352.35    3761498.92        0.63102                     439402.35
3761498.92        0.65880
         439452.35    3761498.92        0.68831                     439502.35
3761498.92        0.72107
         439552.35    3761498.92        0.75503                     439152.35
3761548.92        0.54901
         439202.35    3761548.92        0.57249                     439252.35
3761548.92        0.59797
         439302.35    3761548.92        0.62375                     439352.35
3761548.92        0.65106
         439402.35    3761548.92        0.68137                     439452.35
3761548.92        0.71354
         439502.35    3761548.92        0.74808                     439552.35
3761548.92        0.78547
         439152.35    3761598.92        0.56391                     439202.35
3761598.92        0.58833
         439252.35    3761598.92        0.61514                     439302.35
3761598.92        0.64338
         439352.35    3761598.92        0.67250                     439402.35
3761598.92        0.70520
         439452.35    3761598.92        0.74029                     439502.35
3761598.92        0.77694
         439552.35    3761598.92        0.81773                     439152.35
3761648.92        0.57860
         439202.35    3761648.92        0.60476                     439252.35
3761648.92        0.63325
         439302.35    3761648.92        0.66355                     439352.35
3761648.92        0.69532
         439402.35    3761648.92        0.73024                     439452.35
3761648.92        0.76748
         439502.35    3761648.92        0.80814                     439552.35
3761648.92        0.85187
         439152.35    3761698.92        0.59342                     439202.35
3761698.92        0.62090
         439252.35    3761698.92        0.65033                     439302.35
3761698.92        0.68280
         439352.35    3761698.92        0.71784                     439402.35
3761698.92        0.75585
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***          04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***         21:31:51
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2OFFSIT ***

INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 , L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 , L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 , L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	0.79443	439502.35	3761698.92	0.83887
439552.35	3761698.92	0.88662	439152.35	3761748.92	0.60784
439202.35	3761748.92	0.63727	439252.35	3761748.92	0.66787
439302.35	3761748.92	0.70248	439352.35	3761748.92	0.73934
439402.35	3761748.92	0.77936	439452.35	3761748.92	0.82174
439502.35	3761748.92	0.86738	439552.35	3761748.92	0.91956
439152.35	3761798.92	0.62230	439202.35	3761798.92	0.65371
439252.35	3761798.92	0.68670	439302.35	3761798.92	0.72352
439352.35	3761798.92	0.76146	439402.35	3761798.92	0.80354
439452.35	3761798.92	0.85040	439502.35	3761798.92	0.89838
439552.35	3761798.92	0.95466	439152.35	3761848.92	0.63672
439202.35	3761848.92	0.66963	439252.35	3761848.92	0.70418
439302.35	3761848.92	0.74259	439352.35	3761848.92	0.78286
439402.35	3761848.92	0.82926	439452.35		

```
3761848.92        0.87819
         439502.35    3761848.92        0.92943                   439552.35
3761848.92        0.98993
         439152.35    3761898.92        0.65117                   439202.35
3761898.92        0.68542
         439252.35    3761898.92        0.72175                   439302.35
3761898.92        0.76326
         439352.35    3761898.92        0.80668                   439402.35
3761898.92        0.85408
         439452.35    3761898.92        0.90777                   439502.35
3761898.92        0.96488
         439552.35    3761898.92        1.02791                   439152.35
3761948.92        0.66488
         439202.35    3761948.92        0.70064                   439252.35
3761948.92        0.73872
         439302.35    3761948.92        0.78274                   439352.35
3761948.92        0.82928
         439402.35    3761948.92        0.87900                   439452.35
3761948.92        0.93609
         439502.35    3761948.92        0.99783                   439552.35
3761948.92        1.06557
         439152.35    3761998.92        0.67803                   439202.35
3761998.92        0.71514
         439252.35    3761998.92        0.75507                   439302.35
3761998.92        0.80145
         439352.35    3761998.92        0.85126                   439402.35
3761998.92        0.90342
         439452.35    3761998.92        0.96248                   439502.35
3761998.92        1.02748
         439552.35    3761998.92        1.09992                   439152.35
3762048.92        0.69051
         439202.35    3762048.92        0.73035                   439252.35
3762048.92        0.77348
         439302.35    3762048.92        0.82060                   439352.35
3762048.92        0.87194
         439402.35    3762048.92        0.92760                   439452.35
3762048.92        0.98992
         439502.35    3762048.92        1.05856                   439552.35
3762048.92        1.13460
         439616.61    3761420.65        0.74814                   439666.61
3761420.65        0.78170
         439716.61    3761420.65        0.81656                   439766.61
3761420.65        0.85291
         439816.61    3761420.65        0.88994                   439866.61
3761420.65        0.92983
         439616.61    3761470.65        0.78152                   439666.61
3761470.65        0.81814
         439716.61    3761470.65        0.85688                   439766.61
3761470.65        0.89755
         439816.61    3761470.65        0.93939                   439866.61
3761470.65        0.98513
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2OFFSIT ***
INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 ,
L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 ,
L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 ,
L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	0.89980	439766.61	3761520.65	0.94606
439816.61	3761520.65	0.99366	439866.61	3761520.65	1.04517
439616.61	3761570.65	0.85280	439666.61	3761570.65	0.89755
439716.61	3761570.65	0.94557	439766.61	3761570.65	0.99741
439816.61	3761570.65	1.05192	439866.61	3761570.65	1.10942
440451.14	3762893.83	14.65552	440501.14	3762893.83	10.27984
440551.14	3762893.83	7.89501	440601.14	3762893.83	6.39368
440651.14	3762893.83	5.36676	440701.14	3762893.83	4.62116
440751.14	3762893.83	4.06496	440801.14	3762893.83	3.62350
440851.14	3762893.83	3.27627	440451.14	3762943.83	10.22395

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         440501.14    3762943.83        8.15619                    440551.14
3762943.83        6.67611
         440601.14    3762943.83        5.59472                    440651.14
3762943.83        4.80429
         440701.14    3762943.83        4.20043                    440751.14
3762943.83        3.73688
         440801.14    3762943.83        3.34932                    440851.14
3762943.83        3.03108
         441116.67    3763135.31        1.55316                    441166.67
3763135.31        1.48478
         441116.67    3763185.31        1.43264                    441166.67
3763185.31        1.37624
         441116.67    3763235.31        1.31771                    441166.67
3763235.31        1.27190
         441116.67    3763285.31        1.20478                    441166.67
3763285.31        1.17063
         441116.67    3763335.31        1.11052                    441166.67
3763335.31        1.07409
         441116.67    3763385.31        1.02043                    441166.67
3763385.31        0.99964
         441116.67    3763435.31        0.92655                    441166.67
3763435.31        0.91293
         440433.43    3762815.13       21.14786                    440483.43
3762815.13       13.38315
         440533.43    3762815.13        9.78281                    440583.43
3762815.13        7.69899
         440633.43    3762815.13        6.33627                    440683.43
3762815.13        5.38088
         440733.43    3762815.13        4.66926                    440783.43
3762815.13        4.12888
         440833.43    3762815.13        3.69237                    440883.43
3762815.13        3.34335
         440933.43    3762815.13        3.06322                    440983.43
3762815.13        2.82439
         440433.43    3762865.13       20.04456                    440483.43
3762865.13       12.61818
         440533.43    3762865.13        9.22014                    440583.43
3762865.13        7.26130
         440633.43    3762865.13        5.98358                    440683.43
3762865.13        5.08715
         440733.43    3762865.13        4.42179                    440783.43
3762865.13        3.91429
         440833.43    3762865.13        3.51644                    440883.43
3762865.13        3.19242
         440933.43    3762865.13        2.92487                    440983.43
3762865.13        2.69508
         441118.27    3762686.02        2.59584                    441168.27
3762686.02        2.45175
         441118.27    3762736.02        2.48553                    441168.27
3762736.02        2.34293
         441118.27    3762786.02        2.38932                    441168.27
```

3762786.02 2.24518
441118.27 3762836.02 2.28882 441168.27
3762836.02 2.14925
440411.67 3762093.41 46.66589 440461.67
3762093.41 42.14199
440511.67 3762093.41 42.26278 440561.67
3762093.41 42.47285
440611.67 3762093.41 42.63369 440411.67
3762143.41 38.57327

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2OFFSIT ***
INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 ,
L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 ,
L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 ,
L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	22.55939	440511.67	3762143.41	19.12953
440561.67	3762143.41	18.04248	440611.67	3762143.41	17.58151
440406.61	3762008.86	12.48933	440456.61	3762008.86	14.33852
440506.61	3762008.86	15.27705	440556.61	3762008.86	15.76365
440606.61	3762008.86	16.04475	440656.61	3762008.86	16.18522
440706.61	3762008.86	16.26077	440756.61	3762008.86	16.29917
440806.61	3762008.86	16.08240	440856.61		

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3762008.86       16.03124
         440906.61    3762008.86       16.00972                       440956.61
3762008.86       15.69258
         441006.61    3762008.86       15.23089                       441056.61
3762008.86       14.35464
         441106.61    3762008.86       12.93718                       441156.61
3762008.86       10.44671
         440406.61    3762058.86       36.17263                       440456.61
3762058.86       43.39778
         440506.61    3762058.86       44.90561                       440556.61
3762058.86       45.30614
         440606.61    3762058.86       45.41047                       440656.61
3762058.86       45.32907
         440706.61    3762058.86       45.52896                       440756.61
3762058.86       45.51913
         440806.61    3762058.86       44.44862                       440856.61
3762058.86       44.52731
         440906.61    3762058.86       44.63521                       440956.61
3762058.86       43.97241
         441006.61    3762058.86       43.21195                       441056.61
3762058.86       42.10346
         441106.61    3762058.86       39.80990                       441156.61
3762058.86       29.15804
         440191.38    3762138.44        5.24892                       440241.38
3762138.44        6.86621
         440291.38    3762138.44        9.95728                       440341.38
3762138.44       18.08092
         440191.38    3762188.44        5.54571                       440241.38
3762188.44        7.23204
         440291.38    3762188.44       10.52600                       440341.38
3762188.44       19.09891
         440191.38    3762238.44        5.75626                       440241.38
3762238.44        7.48289
         440291.38    3762238.44       10.81281                       440341.38
3762238.44       19.50344
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:31:51

                                  PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN    ***
                                  INCLUDING SOURCE(S):     PAREA4      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.00043	439943.36	3761716.33	0.00088
439170.17	3763092.51	0.00015	439220.17	3763092.51	0.00015
439270.17	3763092.51	0.00015	439320.17	3763092.51	0.00014
439370.17	3763092.51	0.00014	439420.17	3763092.51	0.00013
439470.17	3763092.51	0.00013	439520.17	3763092.51	0.00012
439570.17	3763092.51	0.00011	439620.17	3763092.51	0.00011
439670.17	3763092.51	0.00011	439720.17	3763092.51	0.00011
439770.17	3763092.51	0.00013	439820.17	3763092.51	0.00015
439870.17	3763092.51	0.00017	439170.17	3763142.51	0.00013
439220.17	3763142.51	0.00013	439270.17	3763142.51	0.00012
439320.17	3763142.51	0.00012	439370.17	3763142.51	0.00011
439420.17	3763142.51	0.00011	439470.17	3763142.51	0.00010
439520.17	3763142.51	0.00009	439570.17	3763142.51	0.00009
439620.17	3763142.51	0.00009	439670.17	3763142.51	0.00009
439720.17	3763142.51	0.00010	439770.17	3763142.51	0.00011
439820.17	3763142.51	0.00013	439870.17	3763142.51	0.00016
439170.17	3763192.51	0.00011	439220.17	3763192.51	0.00010
439270.17	3763192.51	0.00010	439320.17	3763192.51	0.00009
439370.17	3763192.51	0.00009	439420.17	3763192.51	0.00008
439470.17	3763192.51	0.00008	439520.17	3763192.51	0.00007
439570.17	3763192.51	0.00007	439620.17	3763192.51	0.00008
439670.17	3763192.51	0.00008	439720.17	3763192.51	0.00009
439770.17	3763192.51	0.00011	439820.17		

3763192.51   0.00012
         439870.17   3763192.51   0.00015   439170.17
3763242.51   0.00009
         439220.17   3763242.51   0.00009   439270.17
3763242.51   0.00008
         439320.17   3763242.51   0.00008   439370.17
3763242.51   0.00007
         439420.17   3763242.51   0.00007   439470.17
3763242.51   0.00006
         439520.17   3763242.51   0.00006   439570.17
3763242.51   0.00006
         439620.17   3763242.51   0.00007   439670.17
3763242.51   0.00007
         439720.17   3763242.51   0.00009   439770.17
3763242.51   0.00010
         439820.17   3763242.51   0.00012   439870.17
3763242.51   0.00013
         439170.17   3763292.51   0.00007   439220.17
3763292.51   0.00007
         439270.17   3763292.51   0.00006   439320.17
3763292.51   0.00006
         439370.17   3763292.51   0.00006   439420.17
3763292.51   0.00005
         439470.17   3763292.51   0.00005   439520.17
3763292.51   0.00005
         439570.17   3763292.51   0.00006   439620.17
3763292.51   0.00006
         439670.17   3763292.51   0.00007   439720.17
3763292.51   0.00008
         439770.17   3763292.51   0.00009   439820.17
3763292.51   0.00011
         439870.17   3763292.51   0.00012   439170.17
3763342.51   0.00006
         439220.17   3763342.51   0.00006   439270.17
3763342.51   0.00005

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN   ***
                                   INCLUDING SOURCE(S):   PAREA4   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.00005	439370.17	3763342.51	0.00005
439420.17	3763342.51	0.00005	439470.17	3763342.51	0.00005
439520.17	3763342.51	0.00005	439570.17	3763342.51	0.00005
439620.17	3763342.51	0.00006	439670.17	3763342.51	0.00007
439720.17	3763342.51	0.00008	439770.17	3763342.51	0.00009
439820.17	3763342.51	0.00010	439870.17	3763342.51	0.00011
439170.17	3763392.51	0.00005	439220.17	3763392.51	0.00005
439270.17	3763392.51	0.00004	439320.17	3763392.51	0.00004
439370.17	3763392.51	0.00004	439420.17	3763392.51	0.00004
439470.17	3763392.51	0.00004	439520.17	3763392.51	0.00004
439570.17	3763392.51	0.00005	439620.17	3763392.51	0.00006
439670.17	3763392.51	0.00006	439720.17	3763392.51	0.00007
439770.17	3763392.51	0.00009	439820.17	3763392.51	0.00010
439870.17	3763392.51	0.00011	439170.17	3763442.51	0.00004
439220.17	3763442.51	0.00004	439270.17	3763442.51	0.00004
439320.17	3763442.51	0.00003	439370.17	3763442.51	0.00003
439420.17	3763442.51	0.00004	439470.17	3763442.51	0.00004
439520.17	3763442.51	0.00004	439570.17	3763442.51	0.00005
439620.17	3763442.51	0.00005	439670.17	3763442.51	0.00006
439720.17	3763442.51	0.00007	439770.17	3763442.51	0.00008
439820.17	3763442.51	0.00009	439870.17	3763442.51	0.00010
439203.20	3762911.16	0.00026	439253.20	3762911.16	0.00027
439303.20	3762911.16	0.00028	439353.20		

3762911.16   0.00029
         439403.20   3762911.16   0.00030   439453.20
3762911.16   0.00030
         439503.20   3762911.16   0.00030   439553.20
3762911.16   0.00030
         439203.20   3762961.16   0.00023   439253.20
3762961.16   0.00024
         439303.20   3762961.16   0.00024   439353.20
3762961.16   0.00024
         439403.20   3762961.16   0.00024   439453.20
3762961.16   0.00024
         439503.20   3762961.16   0.00024   439553.20
3762961.16   0.00023
         439203.20   3763011.16   0.00020   439253.20
3763011.16   0.00020
         439303.20   3763011.16   0.00020   439353.20
3763011.16   0.00020
         439403.20   3763011.16   0.00020   439453.20
3763011.16   0.00019
         439503.20   3763011.16   0.00018   439553.20
3763011.16   0.00018
         439203.20   3763061.16   0.00017   439253.20
3763061.16   0.00017
         439303.20   3763061.16   0.00017   439353.20
3763061.16   0.00016
         439403.20   3763061.16   0.00016   439453.20
3763061.16   0.00015
         439503.20   3763061.16   0.00014   439553.20
3763061.16   0.00013
         439196.01   3762392.48   0.00043   439246.01
3762392.48   0.00048
         439296.01   3762392.48   0.00054   439346.01
3762392.48   0.00060
         439396.01   3762392.48   0.00068   439446.01
3762392.48   0.00078

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN   ***
                                   INCLUDING SOURCE(S):   PAREA4   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	0.00090	439546.01	3762392.48	0.00105
439196.01	3762442.48	0.00042	439246.01	3762442.48	0.00046
439296.01	3762442.48	0.00052	439346.01	3762442.48	0.00058
439396.01	3762442.48	0.00066	439446.01	3762442.48	0.00075
439496.01	3762442.48	0.00087	439546.01	3762442.48	0.00101
439196.01	3762492.48	0.00040	439246.01	3762492.48	0.00045
439296.01	3762492.48	0.00050	439346.01	3762492.48	0.00056
439396.01	3762492.48	0.00064	439446.01	3762492.48	0.00072
439496.01	3762492.48	0.00083	439546.01	3762492.48	0.00097
439196.01	3762542.48	0.00039	439246.01	3762542.48	0.00044
439296.01	3762542.48	0.00049	439346.01	3762542.48	0.00055
439396.01	3762542.48	0.00062	439446.01	3762542.48	0.00070
439496.01	3762542.48	0.00080	439546.01	3762542.48	0.00092
439196.01	3762592.48	0.00038	439246.01	3762592.48	0.00043
439296.01	3762592.48	0.00047	439346.01	3762592.48	0.00053
439396.01	3762592.48	0.00059	439446.01	3762592.48	0.00067
439496.01	3762592.48	0.00076	439546.01	3762592.48	0.00087
439196.01	3762642.48	0.00038	439246.01	3762642.48	0.00041
439296.01	3762642.48	0.00046	439346.01	3762642.48	0.00051
439396.01	3762642.48	0.00057	439446.01	3762642.48	0.00063
439496.01	3762642.48	0.00071	439546.01	3762642.48	0.00080
439196.01	3762692.48	0.00036	439246.01	3762692.48	0.00040
439296.01	3762692.48	0.00044	439346.01		

```
3762692.48        0.00048
         439396.01    3762692.48        0.00053                      439446.01
3762692.48        0.00059
         439496.01    3762692.48        0.00065                      439546.01
3762692.48        0.00071
         439196.01    3762742.48        0.00035                      439246.01
3762742.48        0.00038
         439296.01    3762742.48        0.00041                      439346.01
3762742.48        0.00045
         439396.01    3762742.48        0.00048                      439446.01
3762742.48        0.00053
         439496.01    3762742.48        0.00057                      439546.01
3762742.48        0.00061
         439196.01    3762792.48        0.00033                      439246.01
3762792.48        0.00035
         439296.01    3762792.48        0.00038                      439346.01
3762792.48        0.00040
         439396.01    3762792.48        0.00043                      439446.01
3762792.48        0.00046
         439496.01    3762792.48        0.00049                      439546.01
3762792.48        0.00051
         439196.01    3762842.48        0.00030                      439246.01
3762842.48        0.00032
         439296.01    3762842.48        0.00034                      439346.01
3762842.48        0.00036
         439396.01    3762842.48        0.00037                      439446.01
3762842.48        0.00039
         439496.01    3762842.48        0.00040                      439546.01
3762842.48        0.00041
         439573.31    3762470.54        0.00107                      439623.31
3762470.54        0.00127
         439673.31    3762470.54        0.00152                      439723.31
3762470.54        0.00185
         439773.31    3762470.54        0.00228                      439823.31
3762470.54        0.00288
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:31:51

                                   PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN     ***
                                   INCLUDING SOURCE(S):     PAREA4      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	0.00370	439573.31	3762520.54	0.00102
439623.31	3762520.54	0.00120	439673.31	3762520.54	0.00143
439723.31	3762520.54	0.00171	439773.31	3762520.54	0.00208
439823.31	3762520.54	0.00256	439873.31	3762520.54	0.00317
439573.31	3762570.54	0.00097	439623.31	3762570.54	0.00112
439673.31	3762570.54	0.00131	439723.31	3762570.54	0.00154
439773.31	3762570.54	0.00181	439823.31	3762570.54	0.00214
439873.31	3762570.54	0.00253	439573.31	3762620.54	0.00089
439623.31	3762620.54	0.00101	439673.31	3762620.54	0.00116
439723.31	3762620.54	0.00132	439773.31	3762620.54	0.00150
439823.31	3762620.54	0.00169	439873.31	3762620.54	0.00188
439573.31	3762670.54	0.00080	439623.31	3762670.54	0.00088
439673.31	3762670.54	0.00098	439723.31	3762670.54	0.00108
439773.31	3762670.54	0.00117	439823.31	3762670.54	0.00125
439873.31	3762670.54	0.00132	439152.35	3761448.92	0.00015
439202.35	3761448.92	0.00015	439252.35	3761448.92	0.00016
439302.35	3761448.92	0.00017	439352.35	3761448.92	0.00018
439402.35	3761448.92	0.00019	439452.35	3761448.92	0.00021
439502.35	3761448.92	0.00024	439552.35	3761448.92	0.00027
439152.35	3761498.92	0.00016	439202.35	3761498.92	0.00017
439252.35	3761498.92	0.00017	439302.35	3761498.92	0.00018
439352.35	3761498.92	0.00019	439402.35	3761498.92	0.00020
439452.35	3761498.92	0.00022	439502.35		

3761498.92   0.00024
         439552.35   3761498.92   0.00027   439152.35
3761548.92   0.00018
         439202.35   3761548.92   0.00018   439252.35
3761548.92   0.00018
         439302.35   3761548.92   0.00019   439352.35
3761548.92   0.00020
         439402.35   3761548.92   0.00021   439452.35
3761548.92   0.00023
         439502.35   3761548.92   0.00025   439552.35
3761548.92   0.00028
         439152.35   3761598.92   0.00019   439202.35
3761598.92   0.00020
         439252.35   3761598.92   0.00020   439302.35
3761598.92   0.00021
         439352.35   3761598.92   0.00021   439402.35
3761598.92   0.00022
         439452.35   3761598.92   0.00024   439502.35
3761598.92   0.00026
         439552.35   3761598.92   0.00029   439152.35
3761648.92   0.00021
         439202.35   3761648.92   0.00022   439252.35
3761648.92   0.00022
         439302.35   3761648.92   0.00023   439352.35
3761648.92   0.00023
         439402.35   3761648.92   0.00024   439452.35
3761648.92   0.00025
         439502.35   3761648.92   0.00027   439552.35
3761648.92   0.00030
         439152.35   3761698.92   0.00023   439202.35
3761698.92   0.00024
         439252.35   3761698.92   0.00025   439302.35
3761698.92   0.00025
         439352.35   3761698.92   0.00026   439402.35
3761698.92   0.00027

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN   ***
                                   INCLUDING SOURCE(S):   PAREA4   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10   IN MICROGRAMS/M**3

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	0.00028	439502.35	3761698.92	0.00029
439552.35	3761698.92	0.00032	439152.35	3761748.92	0.00025
439202.35	3761748.92	0.00026	439252.35	3761748.92	0.00027
439302.35	3761748.92	0.00028	439352.35	3761748.92	0.00029
439402.35	3761748.92	0.00030	439452.35	3761748.92	0.00031
439502.35	3761748.92	0.00032	439552.35	3761748.92	0.00034
439152.35	3761798.92	0.00028	439202.35	3761798.92	0.00029
439252.35	3761798.92	0.00030	439302.35	3761798.92	0.00031
439352.35	3761798.92	0.00032	439402.35	3761798.92	0.00033
439452.35	3761798.92	0.00035	439502.35	3761798.92	0.00036
439552.35	3761798.92	0.00038	439152.35	3761848.92	0.00030
439202.35	3761848.92	0.00032	439252.35	3761848.92	0.00033
439302.35	3761848.92	0.00035	439352.35	3761848.92	0.00036
439402.35	3761848.92	0.00038	439452.35	3761848.92	0.00039
439502.35	3761848.92	0.00041	439552.35	3761848.92	0.00043
439152.35	3761898.92	0.00032	439202.35	3761898.92	0.00034
439252.35	3761898.92	0.00036	439302.35	3761898.92	0.00038
439352.35	3761898.92	0.00040	439402.35	3761898.92	0.00042
439452.35	3761898.92	0.00045	439502.35	3761898.92	0.00047
439552.35	3761898.92	0.00049	439152.35	3761948.92	0.00035
439202.35	3761948.92	0.00037	439252.35	3761948.92	0.00039
439302.35	3761948.92	0.00042	439352.35	3761948.92	0.00045
439402.35	3761948.92	0.00047	439452.35		

```
3761948.92        0.00050
         439502.35    3761948.92        0.00054                        439552.35
3761948.92        0.00057
         439152.35    3761998.92        0.00037                        439202.35
3761998.92        0.00040
         439252.35    3761998.92        0.00043                        439302.35
3761998.92        0.00046
         439352.35    3761998.92        0.00049                        439402.35
3761998.92        0.00053
         439452.35    3761998.92        0.00057                        439502.35
3761998.92        0.00061
         439552.35    3761998.92        0.00065                        439152.35
3762048.92        0.00039
         439202.35    3762048.92        0.00042                        439252.35
3762048.92        0.00046
         439302.35    3762048.92        0.00049                        439352.35
3762048.92        0.00054
         439402.35    3762048.92        0.00058                        439452.35
3762048.92        0.00063
         439502.35    3762048.92        0.00069                        439552.35
3762048.92        0.00075
         439616.61    3761420.65        0.00031                        439666.61
3761420.65        0.00034
         439716.61    3761420.65        0.00038                        439766.61
3761420.65        0.00040
         439816.61    3761420.65        0.00042                        439866.61
3761420.65        0.00043
         439616.61    3761470.65        0.00032                        439666.61
3761470.65        0.00036
         439716.61    3761470.65        0.00040                        439766.61
3761470.65        0.00043
         439816.61    3761470.65        0.00046                        439866.61
3761470.65        0.00047
         439616.61    3761520.65        0.00032                        439666.61
3761520.65        0.00037
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:31:51

                                   PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN     ***
                                   INCLUDING SOURCE(S):     PAREA4      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
```

**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	0.00042	439766.61	3761520.65	0.00046
439816.61	3761520.65	0.00050	439866.61	3761520.65	0.00052
439616.61	3761570.65	0.00033	439666.61	3761570.65	0.00038
439716.61	3761570.65	0.00043	439766.61	3761570.65	0.00049
439816.61	3761570.65	0.00054	439866.61	3761570.65	0.00058
440451.14	3762893.83	0.00146	440501.14	3762893.83	0.00180
440551.14	3762893.83	0.00213	440601.14	3762893.83	0.00239
440651.14	3762893.83	0.00257	440701.14	3762893.83	0.00265
440751.14	3762893.83	0.00267	440801.14	3762893.83	0.00264
440851.14	3762893.83	0.00259	440451.14	3762943.83	0.00105
440501.14	3762943.83	0.00129	440551.14	3762943.83	0.00155
440601.14	3762943.83	0.00177	440651.14	3762943.83	0.00195
440701.14	3762943.83	0.00207	440751.14	3762943.83	0.00213
440801.14	3762943.83	0.00213	440851.14	3762943.83	0.00210
441116.67	3763135.31	0.00102	441166.67	3763135.31	0.00101
441116.67	3763185.31	0.00090	441166.67	3763185.31	0.00088
441116.67	3763235.31	0.00079	441166.67	3763235.31	0.00078
441116.67	3763285.31	0.00070	441166.67	3763285.31	0.00069
441116.67	3763335.31	0.00061	441166.67	3763335.31	0.00062
441116.67	3763385.31	0.00054	441166.67	3763385.31	0.00055
441116.67	3763435.31	0.00048	441166.67	3763435.31	0.00049
440433.43	3762815.13	0.00244	440483.43	3762815.13	0.00303
440533.43	3762815.13	0.00352	440583.43		

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3762815.13        0.00384
         440633.43    3762815.13        0.00400                        440683.43
3762815.13        0.00401
         440733.43    3762815.13        0.00394                        440783.43
3762815.13        0.00384
         440833.43    3762815.13        0.00370                        440883.43
3762815.13        0.00356
         440933.43    3762815.13        0.00342                        440983.43
3762815.13        0.00327
         440433.43    3762865.13        0.00166                        440483.43
3762865.13        0.00207
         440533.43    3762865.13        0.00246                        440583.43
3762865.13        0.00277
         440633.43    3762865.13        0.00297                        440683.43
3762865.13        0.00306
         440733.43    3762865.13        0.00307                        440783.43
3762865.13        0.00302
         440833.43    3762865.13        0.00296                        440883.43
3762865.13        0.00287
         440933.43    3762865.13        0.00278                        440983.43
3762865.13        0.00269
         441118.27    3762686.02        0.00416                        441168.27
3762686.02        0.00380
         441118.27    3762736.02        0.00362                        441168.27
3762736.02        0.00336
         441118.27    3762786.02        0.00312                        441168.27
3762786.02        0.00293
         441118.27    3762836.02        0.00266                        441168.27
3762836.02        0.00253
         440411.67    3762093.41        0.00580                        440461.67
3762093.41        0.00608
         440511.67    3762093.41        0.00629                        440561.67
3762093.41        0.00638
         440611.67    3762093.41        0.00634                        440411.67
3762143.41        0.00944
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:31:51

                                  PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN    ***
                                  INCLUDING SOURCE(S):     PAREA4      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	0.00990	440511.67	3762143.41	0.01007
440561.67	3762143.41	0.00992	440611.67	3762143.41	0.00953
440406.61	3762008.86	0.00307	440456.61	3762008.86	0.00318
440506.61	3762008.86	0.00328	440556.61	3762008.86	0.00337
440606.61	3762008.86	0.00343	440656.61	3762008.86	0.00346
440706.61	3762008.86	0.00346	440756.61	3762008.86	0.00342
440806.61	3762008.86	0.00336	440856.61	3762008.86	0.00327
440906.61	3762008.86	0.00316	440956.61	3762008.86	0.00303
441006.61	3762008.86	0.00289	441056.61	3762008.86	0.00276
441106.61	3762008.86	0.00262	441156.61	3762008.86	0.00248
440406.61	3762058.86	0.00435	440456.61	3762058.86	0.00454
440506.61	3762058.86	0.00471	440556.61	3762058.86	0.00482
440606.61	3762058.86	0.00487	440656.61	3762058.86	0.00485
440706.61	3762058.86	0.00476	440756.61	3762058.86	0.00463
440806.61	3762058.86	0.00446	440856.61	3762058.86	0.00425
440906.61	3762058.86	0.00403	440956.61	3762058.86	0.00380
441006.61	3762058.86	0.00357	441056.61	3762058.86	0.00335
441106.61	3762058.86	0.00314	441156.61	3762058.86	0.00294
440191.38	3762138.44	0.00836	440241.38	3762138.44	0.00853
440291.38	3762138.44	0.00831	440341.38	3762138.44	0.00834
440191.38	3762188.44	0.01311	440241.38	3762188.44	0.01421
440291.38	3762188.44	0.01438	440341.38	3762188.44	0.01482
440191.38	3762238.44	0.02261	440241.38		

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 ,
L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 ,
L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 ,
L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	4.37936	439943.36	3761716.33	5.35869
439170.17	3763092.51	1.95067	439220.17	3763092.51	2.03199
439270.17	3763092.51	2.15448	439320.17	3763092.51	2.26350
439370.17	3763092.51	2.40341	439420.17	3763092.51	2.57403
439470.17	3763092.51	2.79394	439520.17	3763092.51	2.99350
439570.17	3763092.51	3.19789	439620.17	3763092.51	3.39224
439670.17	3763092.51	3.60319	439720.17	3763092.51	3.86799
439770.17	3763092.51	4.20345	439820.17	3763092.51	4.57453
439870.17	3763092.51	4.97371	439170.17	3763142.51	1.84374
439220.17	3763142.51	1.92237	439270.17		

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3763142.51        2.04502
         439320.17    3763142.51        2.13861                    439370.17
3763142.51        2.26643
         439420.17    3763142.51        2.43377                    439470.17
3763142.51        2.56111
         439520.17    3763142.51        2.71970                    439570.17
3763142.51        2.92428
         439620.17    3763142.51        3.11791                    439670.17
3763142.51        3.28710
         439720.17    3763142.51        3.50828                    439770.17
3763142.51        3.75219
         439820.17    3763142.51        4.00929                    439870.17
3763142.51        4.28237
         439170.17    3763192.51        1.74722                    439220.17
3763192.51        1.83293
         439270.17    3763192.51        1.93871                    439320.17
3763192.51        2.02801
         439370.17    3763192.51        2.14597                    439420.17
3763192.51        2.28545
         439470.17    3763192.51        2.40464                    439520.17
3763192.51        2.54651
         439570.17    3763192.51        2.70473                    439620.17
3763192.51        2.87850
         439670.17    3763192.51        3.00248                    439720.17
3763192.51        3.14869
         439770.17    3763192.51        3.32540                    439820.17
3763192.51        3.52480
         439870.17    3763192.51        3.72904                    439170.17
3763242.51        1.65677
         439220.17    3763242.51        1.73708                    439270.17
3763242.51        1.83131
         439320.17    3763242.51        1.92292                    439370.17
3763242.51        2.02589
         439420.17    3763242.51        2.13588                    439470.17
3763242.51        2.23882
         439520.17    3763242.51        2.36117                    439570.17
3763242.51        2.49656
         439620.17    3763242.51        2.64051                    439670.17
3763242.51        2.75709
         439720.17    3763242.51        2.86724                    439770.17
3763242.51        2.99640
         439820.17    3763242.51        3.13328                    439870.17
3763242.51        3.28084
         439170.17    3763292.51        1.56877                    439220.17
3763292.51        1.62529
         439270.17    3763292.51        1.70419                    439320.17
3763292.51        1.79693
         439370.17    3763292.51        1.90567                    439420.17
3763292.51        1.98277
         439470.17    3763292.51        2.06999                    439520.17
3763292.51        2.16455
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 , L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 , L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 , L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	1.70207	439370.17	3763342.51	1.79475
439420.17	3763342.51	1.86636	439470.17	3763342.51	1.93855
439520.17	3763342.51	2.01735	439570.17	3763342.51	2.11963
439620.17	3763342.51	2.22638	439670.17	3763342.51	2.30906
439720.17	3763342.51	2.38467	439770.17	3763342.51	2.43460
439820.17	3763342.51	2.47351	439870.17	3763342.51	2.55338

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         439170.17    3763392.51        1.40876                    439220.17
3763392.51        1.46261
         439270.17    3763392.51        1.53961                    439320.17
3763392.51        1.59421
         439370.17    3763392.51        1.67037                    439420.17
3763392.51        1.72743
         439470.17    3763392.51        1.79025                    439520.17
3763392.51        1.88034
         439570.17    3763392.51        1.96482                    439620.17
3763392.51        2.05466
         439670.17    3763392.51        2.11424                    439720.17
3763392.51        2.18553
         439770.17    3763392.51        2.21346                    439820.17
3763392.51        2.23074
         439870.17    3763392.51        2.26033                    439170.17
3763442.51        1.33578
         439220.17    3763442.51        1.38502                    439270.17
3763442.51        1.45562
         439320.17    3763442.51        1.51285                    439370.17
3763442.51        1.56805
         439420.17    3763442.51        1.62722                    439470.17
3763442.51        1.68114
         439520.17    3763442.51        1.75701                    439570.17
3763442.51        1.82248
         439620.17    3763442.51        1.89422                    439670.17
3763442.51        1.94819
         439720.17    3763442.51        1.99515                    439770.17
3763442.51        1.98359
         439820.17    3763442.51        2.00688                    439870.17
3763442.51        2.05402
         439203.20    3762911.16        2.42500                    439253.20
3762911.16        2.58833
         439303.20    3762911.16        2.77291                    439353.20
3762911.16        2.98703
         439403.20    3762911.16        3.21961                    439453.20
3762911.16        3.48074
         439503.20    3762911.16        3.78567                    439553.20
3762911.16        4.13055
         439203.20    3762961.16        2.35021                    439253.20
3762961.16        2.50266
         439303.20    3762961.16        2.65933                    439353.20
3762961.16        2.86269
         439403.20    3762961.16        3.08675                    439453.20
3762961.16        3.31956
         439503.20    3762961.16        3.60654                    439553.20
3762961.16        3.91582
         439203.20    3763011.16        2.22231                    439253.20
3763011.16        2.34685
         439303.20    3763011.16        2.47522                    439353.20
3763011.16        2.62713
         439403.20    3763011.16        2.94066                    439453.20
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 , L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 , L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 , L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	4.80774	439546.01	3762392.48	5.34277
439196.01	3762442.48	2.84981	439246.01	3762442.48	3.07552
439296.01	3762442.48	3.33294	439346.01		

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3762442.48        3.62499
         439396.01    3762442.48        3.96044                    439446.01
3762442.48        4.34882
         439496.01    3762442.48        4.80091                    439546.01
3762442.48        5.33272
         439196.01    3762492.48        2.83113                    439246.01
3762492.48        3.05425
         439296.01    3762492.48        3.30867                    439346.01
3762492.48        3.59877
         439396.01    3762492.48        3.93045                    439446.01
3762492.48        4.31371
         439496.01    3762492.48        4.76289                    439546.01
3762492.48        5.28933
         439196.01    3762542.48        2.80466                    439246.01
3762542.48        3.02385
         439296.01    3762542.48        3.27358                    439346.01
3762542.48        3.55744
         439396.01    3762542.48        3.88397                    439446.01
3762542.48        4.26033
         439496.01    3762542.48        4.70056                    439546.01
3762542.48        5.21406
         439196.01    3762592.48        2.77108                    439246.01
3762592.48        2.98694
         439296.01    3762592.48        3.23049                    439346.01
3762592.48        3.50709
         439396.01    3762592.48        3.82424                    439446.01
3762592.48        4.19094
         439496.01    3762592.48        4.61865                    439546.01
3762592.48        5.11650
         439196.01    3762642.48        2.73121                    439246.01
3762642.48        2.94128
         439296.01    3762642.48        3.17747                    439346.01
3762642.48        3.44524
         439396.01    3762642.48        3.75325                    439446.01
3762642.48        4.10792
         439496.01    3762642.48        4.52017                    439546.01
3762642.48        4.99982
         439196.01    3762692.48        2.68549                    439246.01
3762692.48        2.88870
         439296.01    3762692.48        3.11788                    439346.01
3762692.48        3.37747
         439396.01    3762692.48        3.67267                    439446.01
3762692.48        4.01300
         439496.01    3762692.48        4.40771                    439546.01
3762692.48        4.86684
         439196.01    3762742.48        2.63339                    439246.01
3762742.48        2.83005
         439296.01    3762742.48        3.05028                    439346.01
3762742.48        3.29920
         439396.01    3762742.48        3.58241                    439446.01
3762742.48        3.90696
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         439496.01    3762742.48        4.26836                      439546.01
3762742.48        4.70355
         439196.01    3762792.48        2.56068                      439246.01
3762792.48        2.76477
         439296.01    3762792.48        2.96502                      439346.01
3762792.48        3.19935
         439396.01    3762792.48        3.46728                      439446.01
3762792.48        3.77736
         439496.01    3762792.48        4.11766                      439546.01
3762792.48        4.52687
         439196.01    3762842.48        2.49677                      439246.01
3762842.48        2.67889
         439296.01    3762842.48        2.87781                      439346.01
3762842.48        3.10074
         439396.01    3762842.48        3.35059                      439446.01
3762842.48        3.63793
         439496.01    3762842.48        3.96377                      439546.01
3762842.48        4.34524
         439573.31    3762470.54        5.63897                      439623.31
3762470.54        6.33571
         439673.31    3762470.54        7.17708                      439723.31
3762470.54        8.20829
         439773.31    3762470.54        9.49909                      439823.31
3762470.54       11.14621
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:31:51

                                   PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
                  L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                  L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                  L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
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3761548.92        2.14855
         439302.35    3761548.92        2.24882                      439352.35
3761548.92        2.35373
         439402.35    3761548.92        2.46885                      439452.35
3761548.92        2.58874
         439502.35    3761548.92        2.71485                      439552.35
3761548.92        2.84832
         439152.35    3761598.92        2.01859                      439202.35
3761598.92        2.11675
         439252.35    3761598.92        2.22439                      439302.35
3761598.92        2.33724
         439352.35    3761598.92        2.45256                      439402.35
3761598.92        2.58094
         439452.35    3761598.92        2.71667                      439502.35
3761598.92        2.85538
         439552.35    3761598.92        3.00688                      439152.35
3761648.92        2.07998
         439202.35    3761648.92        2.18705                      439252.35
3761648.92        2.30385
         439302.35    3761648.92        2.42803                      439352.35
3761648.92        2.55765
         439402.35    3761648.92        2.69923                      439452.35
3761648.92        2.84847
         439502.35    3761648.92        3.00904                      439552.35
3761648.92        3.17822
         439152.35    3761698.92        2.14146                      439202.35
3761698.92        2.25573
         439252.35    3761698.92        2.37867                      439302.35
3761698.92        2.51473
         439352.35    3761698.92        2.66168                      439402.35
3761698.92        2.82073
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:31:51

                                   PAGE  55
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
                 L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                 L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                 L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	2.98068	439502.35	3761698.92	3.16348
439552.35	3761698.92	3.35672	439152.35	3761748.92	2.20080
439202.35	3761748.92	2.32477	439252.35	3761748.92	2.45482
439302.35	3761748.92	2.60275	439352.35	3761748.92	2.76111
439402.35	3761748.92	2.93337	439452.35	3761748.92	3.11538
439502.35	3761748.92	3.31006	439552.35	3761748.92	3.53075
439152.35	3761798.92	2.25967	439202.35	3761798.92	2.39341
439252.35	3761798.92	2.53561	439302.35	3761798.92	2.69581
439352.35	3761798.92	2.86257	439402.35	3761798.92	3.04855
439452.35	3761798.92	3.25644	439502.35	3761798.92	3.46895
439552.35	3761798.92	3.71751	439152.35	3761848.92	2.31777
439202.35	3761848.92	2.45917	439252.35	3761848.92	2.60997
439302.35	3761848.92	2.77965	439352.35	3761848.92	2.96006
439402.35	3761848.92	3.16986	439452.35	3761848.92	3.39336
439502.35	3761848.92	3.62870	439552.35	3761848.92	3.90710
439152.35	3761898.92	2.37532	439202.35	3761898.92	2.52361
439252.35	3761898.92	2.68374	439302.35	3761898.92	2.86920
439352.35	3761898.92	3.06688	439402.35	3761898.92	3.28606
439452.35	3761898.92	3.53760	439502.35	3761898.92	3.80880
439552.35	3761898.92	4.11068	439152.35	3761948.92	2.42924
439202.35	3761948.92	2.58489	439252.35	3761948.92	2.75397

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         439302.35    3761948.92        2.95238                      439352.35
3761948.92        3.16700
         439402.35    3761948.92        3.40120                      439452.35
3761948.92        3.67462
         439502.35    3761948.92        3.97623                      439552.35
3761948.92        4.31280
         439152.35    3761998.92        2.48007                      439202.35
3761998.92        2.64222
         439252.35    3761998.92        2.82040                      439302.35
3761998.92        3.03080
         439352.35    3761998.92        3.26250                      439402.35
3761998.92        3.51193
         439452.35    3761998.92        3.80049                      439502.35
3761998.92        4.12587
         439552.35    3761998.92        4.49701                      439152.35
3762048.92        2.52722
         439202.35    3762048.92        2.70103                      439252.35
3762048.92        2.89353
         439302.35    3762048.92        3.10895                      439352.35
3762048.92        3.34995
         439402.35    3762048.92        3.61870                      439452.35
3762048.92        3.92776
         439502.35    3762048.92        4.27852                      439552.35
3762048.92        4.67905
         439616.61    3761420.65        2.61241                      439666.61
3761420.65        2.71645
         439716.61    3761420.65        2.82140                      439766.61
3761420.65        2.92762
         439816.61    3761420.65        3.03142                      439866.61
3761420.65        3.14030
         439616.61    3761470.65        2.76389                      439666.61
3761470.65        2.87995
         439716.61    3761470.65        2.99923                      439766.61
3761470.65        3.12051
         439816.61    3761470.65        3.24014                      439866.61
3761470.65        3.36763
         439616.61    3761520.65        2.92638                      439666.61
3761520.65        3.05898
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:31:51

                                    PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
                 L0012707    , L0012708    , L0012709    , L0012710    , L0012711
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, L0012712 , L0012713 , L0012714 ,
L0012715 , L0012716 , L0012717 , L0012718 , L0012719
, L0012720 , L0012721 , L0012722 ,
L0012723 , L0012724 , L0012725 , L0012726 , L0012727
, L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	3.19536	439766.61	3761520.65	3.33746
439816.61	3761520.65	3.47704	439866.61	3761520.65	3.62306
439616.61	3761570.65	3.10377	439666.61	3761570.65	3.25532
439716.61	3761570.65	3.41261	439766.61	3761570.65	3.57684
439816.61	3761570.65	3.74197	439866.61	3761570.65	3.90780
440451.14	3762893.83	20.22263	440501.14	3762893.83	15.82057
440551.14	3762893.83	13.42533	440601.14	3762893.83	11.81382
440651.14	3762893.83	10.73124	440701.14	3762893.83	9.94818
440751.14	3762893.83	9.38628	440801.14	3762893.83	8.89048
440851.14	3762893.83	8.49671	440451.14	3762943.83	14.83521
440501.14	3762943.83	12.67885	440551.14	3762943.83	11.22155
440601.14	3762943.83	10.04704	440651.14	3762943.83	9.27462
440701.14	3762943.83	8.66839	440751.14	3762943.83	8.24452
440801.14	3762943.83	7.79780	440851.14	3762943.83	7.42994
441116.67	3763135.31	4.10340	441166.67	3763135.31	4.03221
441116.67	3763185.31	3.70220	441166.67	3763185.31	3.65334
441116.67	3763235.31	3.34933	441166.67	3763235.31	3.31425
441116.67	3763285.31	3.01951	441166.67		

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3763285.31        3.00521
         441116.67    3763335.31        2.74236                          441166.67
3763335.31        2.72360
         441116.67    3763385.31        2.49639                          441166.67
3763385.31        2.48680
         441116.67    3763435.31        2.26493                          441166.67
3763435.31        2.26466
         440433.43    3762815.13       29.51258                          440483.43
3762815.13       21.59062
         440533.43    3762815.13       17.88293                          440583.43
3762815.13       15.52654
         440633.43    3762815.13       14.00672                          440683.43
3762815.13       12.85394
         440733.43    3762815.13       11.89783                          440783.43
3762815.13       11.13300
         440833.43    3762815.13       10.41489                          440883.43
3762815.13        9.78269
         440933.43    3762815.13        9.19078                          440983.43
3762815.13        8.63289
         440433.43    3762865.13       26.44481                          440483.43
3762865.13       19.04280
         440533.43    3762865.13       15.59408                          440583.43
3762865.13       13.51804
         440633.43    3762865.13       12.12797                          440683.43
3762865.13       11.15712
         440733.43    3762865.13       10.38941                          440783.43
3762865.13        9.79217
         440833.43    3762865.13        9.27790                          440883.43
3762865.13        8.79026
         440933.43    3762865.13        8.32268                          440983.43
3762865.13        7.87398
         441118.27    3762686.02        8.57644                          441168.27
3762686.02        7.97655
         441118.27    3762736.02        8.09775                          441168.27
3762736.02        7.56646
         441118.27    3762786.02        7.60582                          441168.27
3762786.02        7.13707
         441118.27    3762836.02        7.09179                          441168.27
3762836.02        6.69108
         440411.67    3762093.41       62.05593                          440461.67
3762093.41       55.98501
         440511.67    3762093.41       54.70929                          440561.67
3762093.41       53.69068
         440611.67    3762093.41       52.78933                          440411.67
3762143.41       58.53471
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***         04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 , L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 , L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 , L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	40.09435	440511.67	3762143.41	34.61598
440561.67	3762143.41	31.77877	440611.67	3762143.41	29.87240
440406.61	3762008.86	23.20066	440456.61	3762008.86	24.28402
440506.61	3762008.86	24.43809	440556.61	3762008.86	24.17731
440606.61	3762008.86	23.78645	440656.61	3762008.86	23.33247
440706.61	3762008.86	22.88654	440756.61	3762008.86	22.46405
440806.61	3762008.86	21.81666	440856.61	3762008.86	21.39790
440906.61	3762008.86	21.05126	440956.61	3762008.86	20.42325
441006.61	3762008.86	19.67814	441056.61	3762008.86	18.53564
441106.61	3762008.86	16.87919	441156.61	3762008.86	14.16955
440406.61	3762058.86	49.40381	440456.61	3762058.86	55.47160
440506.61	3762058.86	55.87454	440556.61	3762058.86	55.27516
440606.61	3762058.86	54.49896	440656.61	3762058.86	53.66073
440706.61	3762058.86	53.20755	440756.61	3762058.86	52.61416

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         440806.61    3762058.86       51.00671                       440856.61
3762058.86       50.62062
         440906.61    3762058.86       50.31307                       440956.61
3762058.86       49.26616
         441006.61    3762058.86       48.15553                       441056.61
3762058.86       46.72915
         441106.61    3762058.86       44.14593                       441156.61
3762058.86       33.23034
         440191.38    3762138.44       28.04062                       440241.38
3762138.44       31.13594
         440291.38    3762138.44       34.14720                       440341.38
3762138.44       40.59803
         440191.38    3762188.44       38.00730                       440241.38
3762188.44       42.64494
         440291.38    3762188.44       46.11822                       440341.38
3762188.44       51.28972
         440191.38    3762238.44       55.60036                       440241.38
3762238.44       66.24869
         440291.38    3762238.44       69.72303                       440341.38
3762238.44       69.31678
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

                                  PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                  INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440407.86   3761497.84       21.27145  (15122901)               439943.36
3761716.33       28.31350  (16092523)
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```
        439170.17   3763092.51       17.39101  (15072001)               439220.17
3763092.51       18.77305  (15091002)
        439270.17   3763092.51       19.57275  (16102806)               439320.17
3763092.51       21.06626  (16102806)
        439370.17   3763092.51       22.49432  (15101220)               439420.17
3763092.51       22.68846  (14030901)
        439470.17   3763092.51       23.25582  (13101421)               439520.17
3763092.51       24.41569  (16102418)
        439570.17   3763092.51       25.40402  (15102306)               439620.17
3763092.51       28.24030  (15070104)
        439670.17   3763092.51       30.75481  (14010617)               439720.17
3763092.51       32.69378  (15031521)
        439770.17   3763092.51       34.29033  (15090205)               439820.17
3763092.51       35.83209  (16102019)
        439870.17   3763092.51       38.82080  (14091524)               439170.17
3763142.51       17.44419  (15010620)
        439220.17   3763142.51       18.96865  (16102806)               439270.17
3763142.51       19.74537  (15101220)
        439320.17   3763142.51       21.46939  (15101220)               439370.17
3763142.51       21.86737  (15101220)
        439420.17   3763142.51       22.28230  (13101421)               439470.17
3763142.51       23.96059  (15102306)
        439520.17   3763142.51       25.23162  (15102306)               439570.17
3763142.51       25.95614  (15070104)
        439620.17   3763142.51       27.51891  (15070104)               439670.17
3763142.51       29.53143  (15031521)
        439720.17   3763142.51       31.52913  (15090205)               439770.17
3763142.51       32.78756  (16102019)
        439820.17   3763142.51       35.21008  (14091524)               439870.17
3763142.51       36.60467  (13090904)
        439170.17   3763192.51       18.06087  (16102806)               439220.17
3763192.51       19.32800  (15101220)
        439270.17   3763192.51       19.82757  (15101220)               439320.17
3763192.51       20.56634  (15101220)
        439370.17   3763192.51       21.32163  (16040804)               439420.17
3763192.51       22.11724  (15102306)
        439470.17   3763192.51       23.39417  (15102306)               439520.17
3763192.51       24.56763  (15070104)
        439570.17   3763192.51       25.73333  (15070104)               439620.17
3763192.51       26.63595  (14010617)
        439670.17   3763192.51       28.95161  (15090205)               439720.17
3763192.51       30.58081  (15100522)
        439770.17   3763192.51       32.55407  (12010219)               439820.17
3763192.51       34.40216  (14091524)
        439870.17   3763192.51       34.89295  (12091522)               439170.17
3763242.51       18.55710  (15101220)
        439220.17   3763242.51       19.17170  (15101220)               439270.17
3763242.51       19.08464  (13102523)
        439320.17   3763242.51       20.11580  (15082702)               439370.17
3763242.51       21.06869  (15082702)
        439420.17   3763242.51       21.77633  (15102306)               439470.17
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3763242.51       22.98523  (15070104)
        439520.17   3763242.51       24.17493  (15070104)                439570.17
3763242.51       25.09230  (13111320)
        439620.17   3763242.51       26.15920  (15090205)                439670.17
3763242.51       27.44382  (15100522)
        439720.17   3763242.51       29.36766  (12010219)                439770.17
3763242.51       31.64004  (14091524)
        439820.17   3763242.51       32.69987  (13090904)                439870.17
3763242.51       34.21151  (15100921)
        439170.17   3763292.51       18.47846  (15101220)                439220.17
3763292.51       19.29056  (13102523)
        439270.17   3763292.51       20.19594  (15082702)                439320.17
3763292.51       20.77525  (15082702)
        439370.17   3763292.51       20.69633  (15102306)                439420.17
3763292.51       21.88726  (16040703)
        439470.17   3763292.51       23.28234  (15092402)                439520.17
3763292.51       24.41262  (13111320)
        439570.17   3763292.51       24.70704  (15090205)                439620.17
3763292.51       25.67757  (15090205)
        439670.17   3763292.51       26.66861  (15031421)                439720.17
3763292.51       28.63518  (12010219)
        439770.17   3763292.51       30.70923  (14091524)                439820.17
3763292.51       31.98603  (12091522)
        439870.17   3763292.51       33.19738  (15100921)                439170.17
3763342.51       18.23325  (14120303)
        439220.17   3763342.51       19.49873  (15082702)                439270.17
3763342.51       19.78692  (15082702)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:31:51

                                    PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	20.15805	(12081704)	439370.17	3763342.51	20.35663	(16040703)
439420.17	3763342.51	21.64012	(15092402)	439470.17	3763342.51	22.74972	(13111320)
439520.17	3763342.51	23.64377	(16072323)	439570.17	3763342.51	24.37823	(15090205)
439620.17	3763342.51	24.80967	(15031421)	439670.17	3763342.51	26.22674	(12010219)
439720.17	3763342.51	27.98730	(14091524)	439770.17	3763342.51	29.63280	(15092601)
439820.17	3763342.51	31.13478	(15081402)	439870.17	3763342.51	31.88782	(15070102)
439170.17	3763392.51	18.55099	(15082702)	439220.17	3763392.51	19.34483	(15082702)
439270.17	3763392.51	19.46004	(12081704)	439320.17	3763392.51	20.27744	(15063003)
439370.17	3763392.51	20.88780	(15092402)	439420.17	3763392.51	21.78028	(15062224)
439470.17	3763392.51	22.83028	(16072323)	439520.17	3763392.51	23.17233	(15090205)
439570.17	3763392.51	23.65258	(15031421)	439620.17	3763392.51	24.20187	(12010219)
439670.17	3763392.51	25.75573	(14091524)	439720.17	3763392.51	26.79641	(13090904)
439770.17	3763392.51	28.55992	(12091522)	439820.17	3763392.51	29.91165	(15081402)
439870.17	3763392.51	30.86458	(15070102)	439170.17	3763442.51	18.49577	(15082702)
439220.17	3763442.51	19.40035	(12081704)	439270.17	3763442.51	19.18468	(15063003)
439320.17	3763442.51	20.02064	(15062721)	439370.17	3763442.51	20.50435	(16100302)
439420.17	3763442.51	21.13886	(16072323)	439470.17	3763442.51	22.22780	(16072323)
439520.17	3763442.51	22.53627	(16072103)	439570.17	3763442.51	23.45011	(13091323)
439620.17	3763442.51	24.03273	(12010219)	439670.17	3763442.51	25.20810	(14091524)
439720.17	3763442.51	26.14477	(15092601)	439770.17	3763442.51	27.81162	(15081402)
439820.17	3763442.51	28.41873	(16082406)	439870.17	3763442.51	29.60971	(13082824)
439203.20	3762911.16	15.95740	(15090919)	439253.20	3762911.16	16.71901	(15090919)
439303.20	3762911.16	17.31866	(15090919)	439353.20	3762911.16	18.25775	(15021103)

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        439403.20   3762911.16       19.23882  (16122818)                439453.20
3762911.16       20.33490  (15031221)
        439503.20   3762911.16       22.16950  (15031221)                439553.20
3762911.16       23.57874  (15031221)
        439203.20   3762961.16       15.20141  (15090919)                439253.20
3762961.16       16.03991  (15021103)
        439303.20   3762961.16       17.42272  (16122818)                439353.20
3762961.16       17.80506  (16122818)
        439403.20   3762961.16       18.80042  (15031221)                439453.20
3762961.16       20.49410  (15031221)
        439503.20   3762961.16       21.11872  (15031221)                439553.20
3762961.16       22.30262  (13101603)
        439203.20   3763011.16       15.90524  (16122818)                439253.20
3763011.16       17.21962  (15072001)
        439303.20   3763011.16       18.86994  (15072001)                439353.20
3763011.16       20.23625  (15031221)
        439403.20   3763011.16       18.98830  (15031221)                439453.20
3763011.16       20.03166  (12020718)
        439503.20   3763011.16       20.71949  (13101603)                439553.20
3763011.16       22.71153  (13101421)
        439203.20   3763061.16       17.20793  (15072001)                439253.20
3763061.16       19.46634  (15072001)
        439303.20   3763061.16       20.55638  (15010620)                439353.20
3763061.16       21.88263  (16102806)
        439403.20   3763061.16       22.97080  (15101220)                439453.20
3763061.16       23.40883  (14030901)
        439503.20   3763061.16       22.87926  (13101421)                439553.20
3763061.16       25.84600  (16102418)
        439196.01   3762392.48       18.27398  (16102417)                439246.01
3762392.48       19.50044  (16102417)
        439296.01   3762392.48       20.86470  (16102417)                439346.01
3762392.48       22.39853  (16102417)
        439396.01   3762392.48       24.12866  (16102417)                439446.01
3762392.48       26.07632  (16102417)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:31:51

                                   PAGE  60
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                L0013593    , L0013594    , L0013595    , L0013596    , L0013597
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, L0013598   , L0013599   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	28.36071	(16102417)	439546.01	3762392.48	31.04150	(16102417)
439196.01	3762442.48	18.03328	(16102417)	439246.01	3762442.48	19.19561	(16102417)
439296.01	3762442.48	20.51224	(16102417)	439346.01	3762442.48	21.96281	(16102417)
439396.01	3762442.48	23.61588	(15120517)	439446.01	3762442.48	25.52396	(16122920)
439496.01	3762442.48	27.75919	(16122920)	439546.01	3762442.48	30.33367	(16122920)
439196.01	3762492.48	17.78526	(15051306)	439246.01	3762492.48	18.98019	(15051306)
439296.01	3762492.48	20.31714	(15051306)	439346.01	3762492.48	21.80073	(15051306)
439396.01	3762492.48	23.44158	(15051306)	439446.01	3762492.48	25.27430	(15051306)
439496.01	3762492.48	27.37484	(16022406)	439546.01	3762492.48	29.92635	(16022406)
439196.01	3762542.48	17.55045	(16022406)	439246.01	3762542.48	18.67079	(16022406)
439296.01	3762542.48	19.95153	(13122517)	439346.01	3762542.48	21.46936	(13122517)
439396.01	3762542.48	23.14768	(13122517)	439446.01	3762542.48	24.98489	(13122517)
439496.01	3762542.48	27.05259	(12112807)	439546.01	3762542.48	29.44300	(15031224)
439196.01	3762592.48	17.41429	(13122517)	439246.01	3762592.48	18.51782	(12112807)
439296.01	3762592.48	19.72277	(12112807)	439346.01	3762592.48	21.22982	(15031224)
439396.01	3762592.48	22.98405	(15031224)	439446.01	3762592.48	24.88561	(15031224)
439496.01	3762592.48	26.93024	(15031224)	439546.01	3762592.48	29.44792	(15063019)
439196.01	3762642.48	17.39232	(15031224)	439246.01	3762642.48	18.54604	(15031224)
439296.01	3762642.48	19.74955	(15031224)	439346.01	3762642.48	21.16185	(15031223)
439396.01	3762642.48	22.90419	(15063019)	439446.01			

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3762642.48       24.94351  (15063019)
        439496.01   3762642.48       27.06139  (15063019)                439546.01
3762642.48       29.19589  (15063019)
        439196.01   3762692.48       17.24446  (15031223)                439246.01
3762692.48       18.51316  (15063019)
        439296.01   3762692.48       19.88369  (15063019)                439346.01
3762692.48       21.28375  (15063019)
        439396.01   3762692.48       22.67672  (15063019)                439446.01
3762692.48       24.01475  (15063019)
        439496.01   3762692.48       25.51455  (15112017)                439546.01
3762692.48       27.89104  (15112017)
        439196.01   3762742.48       17.33308  (15063019)                439246.01
3762742.48       18.30319  (15063019)
        439296.01   3762742.48       19.22429  (15063019)                439346.01
3762742.48       20.13907  (16122919)
        439396.01   3762742.48       21.66840  (15112017)                439446.01
3762742.48       23.32530  (15112017)
        439496.01   3762742.48       24.87143  (15090919)                439546.01
3762742.48       27.07212  (15090919)
        439196.01   3762792.48       16.47273  (15063019)                439246.01
3762792.48       17.42696  (15112017)
        439296.01   3762792.48       18.67367  (15112017)                439346.01
3762792.48       19.86156  (15112017)
        439396.01   3762792.48       21.09212  (15090919)                439446.01
3762792.48       22.71081  (15090919)
        439496.01   3762792.48       24.10711  (15090919)                439546.01
3762792.48       25.37423  (15021103)
        439196.01   3762842.48       16.29348  (15112017)                439246.01
3762842.48       17.18067  (15112017)
        439296.01   3762842.48       18.19661  (15090919)                439346.01
3762842.48       19.42088  (15090919)
        439396.01   3762842.48       20.48092  (15090919)                439446.01
3762842.48       21.37435  (15021103)
        439496.01   3762842.48       22.65925  (15021103)                439546.01
3762842.48       24.15495  (16122818)
        439573.31   3762470.54       31.80574  (15051306)                439623.31
3762470.54       35.00453  (15051306)
        439673.31   3762470.54       38.74792  (16022406)                439723.31
3762470.54       43.39535  (16022406)
        439773.31   3762470.54       49.24909  (13122517)                439823.31
3762470.54       56.41795  (13122517)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

                                   PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
```

INCLUDING SOURCE(S): L0013572 , L0013573
, L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581
, L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589
, L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597
, L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	65.15839	(13122517)	439573.31	3762520.54	31.28710	(13122517)
439623.31	3762520.54	34.34505	(12112807)	439673.31	3762520.54	38.31590	(15031224)
439723.31	3762520.54	43.14644	(15031224)	439773.31	3762520.54	48.60271	(15031223)
439823.31	3762520.54	56.26825	(15063019)	439873.31	3762520.54	65.39485	(15063019)
439573.31	3762570.54	31.05441	(15031224)	439623.31	3762570.54	34.29443	(15063019)
439673.31	3762570.54	38.48336	(15063019)	439723.31	3762570.54	43.00028	(15063019)
439773.31	3762570.54	47.70027	(15063019)	439823.31	3762570.54	53.18821	(15112017)
439873.31	3762570.54	60.68199	(15090919)	439573.31	3762620.54	31.11321	(15063019)
439623.31	3762620.54	33.75387	(15063019)	439673.31	3762620.54	36.29242	(15063019)
439723.31	3762620.54	40.56929	(15112017)	439773.31	3762620.54	45.14137	(15090919)
439823.31	3762620.54	50.69316	(15090919)	439873.31	3762620.54	55.76273	(15021103)
439573.31	3762670.54	29.45271	(15112017)	439623.31	3762670.54	32.21189	(15112017)
439673.31	3762670.54	35.30041	(15090919)	439723.31	3762670.54	38.81325	(15090919)
439773.31	3762670.54	41.87424	(15021103)	439823.31	3762670.54	46.24971	(16122818)
439873.31	3762670.54	52.98019	(15031221)	439152.35	3761448.92	11.25523	(14042901)
439202.35	3761448.92	11.83913	(14042901)	439252.35	3761448.92	12.27710	(14042901)

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        439302.35   3761448.92       12.61230  (16020619)                439352.35
3761448.92       13.09058  (16021419)
        439402.35   3761448.92       13.49199  (16021419)                439452.35
3761448.92       13.92143  (12010822)
        439502.35   3761448.92       14.37528  (14110501)                439552.35
3761448.92       15.01016  (15031301)
        439152.35   3761498.92       11.85770  (14043002)                439202.35
3761498.92       12.10462  (14043002)
        439252.35   3761498.92       12.79800  (14042901)                439302.35
3761498.92       13.26567  (14042901)
        439352.35   3761498.92       13.60331  (16020619)                439402.35
3761498.92       14.11775  (16021419)
        439452.35   3761498.92       14.52305  (16021419)                439502.35
3761498.92       15.10376  (12010822)
        439552.35   3761498.92       15.60304  (14110501)                439152.35
3761548.92       12.22330  (13101522)
        439202.35   3761548.92       12.71031  (14043002)                439252.35
3761548.92       13.08401  (14043002)
        439302.35   3761548.92       13.63808  (14042901)                439352.35
3761548.92       14.20553  (14042901)
        439402.35   3761548.92       14.64534  (16020619)                439452.35
3761548.92       15.24827  (16021419)
        439502.35   3761548.92       15.73733  (16021419)                439552.35
3761548.92       16.39844  (12010822)
        439152.35   3761598.92       12.60317  (13101522)                439202.35
3761598.92       13.11021  (13101522)
        439252.35   3761598.92       13.63524  (14043002)                439302.35
3761598.92       14.09892  (14043002)
        439352.35   3761598.92       14.61035  (14042901)                439402.35
3761598.92       15.40710  (14042901)
        439452.35   3761598.92       15.93382  (16020619)                439502.35
3761598.92       16.61047  (16021419)
        439552.35   3761598.92       17.20675  (16021419)                439152.35
3761648.92       12.94110  (16101918)
        439202.35   3761648.92       13.40674  (13101522)                439252.35
3761648.92       14.13688  (13101522)
        439302.35   3761648.92       14.69010  (14043002)                439352.35
3761648.92       15.28938  (14043002)
        439402.35   3761648.92       15.87202  (14042901)                439452.35
3761648.92       16.82695  (14042901)
        439502.35   3761648.92       17.44908  (16020619)                439552.35
3761648.92       18.33433  (16021419)
        439152.35   3761698.92       13.44890  (16101918)                439202.35
3761698.92       13.97522  (16101918)
        439252.35   3761698.92       14.30754  (16101918)                439302.35
3761698.92       15.19842  (13101522)
        439352.35   3761698.92       15.92349  (13101522)                439402.35
3761698.92       16.74902  (14043002)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	17.20062	(14042901)	439502.35	3761698.92	18.47095	(14042901)
439552.35	3761698.92	19.23641	(16020619)	439152.35	3761748.92	13.48092	(13100622)
439202.35	3761748.92	14.34018	(16101918)	439252.35	3761748.92	15.05029	(16101918)
439302.35	3761748.92	15.66514	(16101918)	439352.35	3761748.92	16.38905	(13101522)
439402.35	3761748.92	17.36421	(13101522)	439452.35	3761748.92	18.18065	(14043002)
439502.35	3761748.92	18.83826	(14043002)	439552.35	3761748.92	20.27351	(14042901)
439152.35	3761798.92	14.10824	(16112908)	439202.35	3761798.92	14.68520	(13100622)
439252.35	3761798.92	15.25613	(16101918)	439302.35	3761798.92	16.35361	(16101918)
439352.35	3761798.92	17.14996	(16101918)	439402.35	3761798.92	17.72751	(16101918)
439452.35	3761798.92	19.03124	(13101522)	439502.35	3761798.92	19.88097	(14043002)
439552.35	3761798.92	21.04950	(14043002)	439152.35	3761848.92	14.64035	(14051322)
439202.35	3761848.92	15.33491	(14051322)	439252.35	3761848.92	15.91844	(16112908)
439302.35	3761848.92	16.62481	(13100622)	439352.35			

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3761848.92       17.49161  (16101918)
        439402.35   3761848.92       18.80853  (16101918)                439452.35
3761848.92       19.75727  (16101918)
        439502.35   3761848.92       20.72925  (13101522)                439552.35
3761848.92       22.18767  (13101522)
        439152.35   3761898.92       14.90321  (15031321)                439202.35
3761898.92       15.62419  (14051322)
        439252.35   3761898.92       16.55047  (14051322)                439302.35
3761898.92       17.51023  (14051322)
        439352.35   3761898.92       18.29621  (16112908)                439402.35
3761898.92       19.15797  (13100622)
        439452.35   3761898.92       20.65386  (16101918)                439502.35
3761898.92       22.09119  (16101918)
        439552.35   3761898.92       23.12439  (16101918)                439152.35
3761948.92       15.11650  (15071824)
        439202.35   3761948.92       16.03047  (15031321)                439252.35
3761948.92       16.88747  (15031321)
        439302.35   3761948.92       17.84333  (14051322)                439352.35
3761948.92       19.14969  (14051322)
        439402.35   3761948.92       20.24970  (14051322)                439452.35
3761948.92       21.42942  (16112908)
        439502.35   3761948.92       22.63884  (13100622)                439552.35
3761948.92       24.71798  (16101918)
        439152.35   3761998.92       15.55248  (15071824)                439202.35
3761998.92       16.41641  (16092601)
        439252.35   3761998.92       17.22647  (16092601)                439302.35
3761998.92       18.32447  (15031321)
        439352.35   3761998.92       19.65313  (15031321)                439402.35
3761998.92       20.74824  (15031321)
        439452.35   3761998.92       22.39958  (14051322)                439502.35
3761998.92       24.00131  (14051322)
        439552.35   3761998.92       25.50310  (13100622)                439152.35
3762048.92       16.13544  (14051419)
        439202.35   3762048.92       17.04004  (14051419)                439252.35
3762048.92       17.91697  (14051419)
        439302.35   3762048.92       18.89808  (16092601)                439352.35
3762048.92       20.17076  (16092601)
        439402.35   3762048.92       21.35409  (16092601)                439452.35
3762048.92       23.04542  (15031321)
        439502.35   3762048.92       24.76273  (15031321)                439552.35
3762048.92       26.87842  (14051322)
        439616.61   3761420.65       14.96577  (14112323)                439666.61
3761420.65       15.89729  (12110417)
        439716.61   3761420.65       16.80237  (12110417)                439766.61
3761420.65       17.10030  (13101517)
        439816.61   3761420.65       17.21030  (16092523)                439866.61
3761420.65       17.80828  (13101419)
        439616.61   3761470.65       15.96544  (13112508)                439666.61
3761470.65       16.26789  (14022807)
        439716.61   3761470.65       17.56459  (12110417)                439766.61
3761470.65       18.22541  (13101517)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	18.06441	(12110417)	439766.61	3761520.65	19.44028	(12110417)
439816.61	3761520.65	19.88208	(13101517)	439866.61	3761520.65	20.09831	(16092523)
439616.61	3761570.65	17.59455	(14110501)	439666.61	3761570.65	18.49769	(15031301)
439716.61	3761570.65	18.95217	(13112508)	439766.61	3761570.65	20.39225	(12110417)
439816.61	3761570.65	21.45862	(12110417)	439866.61	3761570.65	21.56985	(13101517)
440451.14	3762893.83	60.70448	(16070206)	440501.14	3762893.83	57.96548	(16012217)
440551.14	3762893.83	53.37238	(14063005)	440601.14	3762893.83	50.48664	(13110717)
440651.14	3762893.83	48.73007	(15061306)	440701.14	3762893.83	46.11103	(16070606)
440751.14	3762893.83	42.70418	(15070406)	440801.14	3762893.83	38.54698	(15070606)

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        440851.14   3762893.83       32.53446  (13062920)               440451.14
3762943.83       55.68765  (13111318)
        440501.14   3762943.83       54.59046  (16101920)               440551.14
3762943.83       50.31430  (14062506)
        440601.14   3762943.83       48.85706  (15090821)               440651.14
3762943.83       45.68820  (16052806)
        440701.14   3762943.83       43.23747  (15061306)               440751.14
3762943.83       39.90467  (16070606)
        440801.14   3762943.83       38.63561  (15070406)               440851.14
3762943.83       36.87560  (15031520)
        441116.67   3763135.31       25.83015  (14080123)               441166.67
3763135.31       24.37638  (15071801)
        441116.67   3763185.31       25.49101  (15072905)               441166.67
3763185.31       24.01025  (14080123)
        441116.67   3763235.31       25.08804  (15062901)               441166.67
3763235.31       23.57415  (15072905)
        441116.67   3763285.31       25.13411  (15062901)               441166.67
3763285.31       23.58750  (15062901)
        441116.67   3763335.31       24.76794  (15082423)               441166.67
3763335.31       23.62852  (15062901)
        441116.67   3763385.31       24.30578  (12081324)               441166.67
3763385.31       23.59494  (15082423)
        441116.67   3763435.31       23.88327  (13100303)               441166.67
3763435.31       23.02640  (15062124)
        440433.43   3762815.13       61.92272  (16012117)               440483.43
3762815.13       58.84261  (14062506)
        440533.43   3762815.13       53.19857  (16101523)               440583.43
3762815.13       50.41391  (16111017)
        440633.43   3762815.13       47.20279  (12082820)               440683.43
3762815.13       43.29254  (15070606)
        440733.43   3762815.13       40.58244  (13060306)               440783.43
3762815.13       36.98737  (13062920)
        440833.43   3762815.13       35.44149  (16061306)               440883.43
3762815.13       32.49280  (16061306)
        440933.43   3762815.13       28.81539  (13051321)               440983.43
3762815.13       26.24720  (15092020)
        440433.43   3762865.13       63.91733  (16070206)               440483.43
3762865.13       57.85704  (16012217)
        440533.43   3762865.13       52.19273  (15090105)               440583.43
3762865.13       49.19844  (16111017)
        440633.43   3762865.13       46.98973  (15101120)               440683.43
3762865.13       43.34507  (16070606)
        440733.43   3762865.13       41.14968  (15070406)               440783.43
3762865.13       37.50498  (13060306)
        440833.43   3762865.13       33.54660  (13062920)               440883.43
3762865.13       30.46831  (16061306)
        440933.43   3762865.13       27.71402  (16061306)               440983.43
3762865.13       25.36530  (13012217)
        441118.27   3762686.02       23.65235  (12092120)               441168.27
3762686.02       22.18368  (13090620)
        441118.27   3762736.02       23.17322  (15091021)               441168.27
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3762736.02   21.63723 (15091021)
        441118.27   3762786.02   22.56065 (15062719)   441168.27
3762786.02   20.93498 (15072203)
        441118.27   3762836.02   21.66409 (13060406)   441168.27
3762836.02   20.53566 (15062719)
        440411.67   3762093.41   86.89139 (15012217)   440461.67
3762093.41   78.33441 (15101302)
        440511.67   3762093.41   70.61755 (13012317)   440561.67
3762093.41   63.16088 (12012417)
        440611.67   3762093.41   57.44699 (12092121)   440411.67
3762143.41   105.49738 (12012517)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440461.67   3762143.41   91.61797 (15071919)   440511.67
3762143.41   80.43498 (15091323)
        440561.67   3762143.41   71.88603 (12092121)   440611.67
3762143.41   63.70932 (15080521)
        440406.61   3762008.86   65.09335 (14011422)   440456.61
3762008.86   62.10437 (15012217)
        440506.61   3762008.86   57.85851 (12012517)   440556.61
3762008.86   53.07310 (15071919)
        440606.61   3762008.86   49.03783 (13012317)   440656.61
3762008.86   44.80148 (12012417)
        440706.61   3762008.86   41.34033 (12012417)   440756.61

3762008.86   38.32402 (15070806)
        440806.61   3762008.86   34.86391 (15080521)   440856.61
3762008.86   32.33954 (16083020)
        440906.61   3762008.86   30.12871 (16062022)   440956.61
3762008.86   27.90240 (15091122)
        441006.61   3762008.86   26.03104 (13051806)   441056.61
3762008.86   24.10279 (13051806)
        441106.61   3762008.86   22.48973 (16072722)   441156.61
3762008.86   21.01049 (12080921)
        440406.61   3762058.86   76.60730 (14100521)   440456.61
3762058.86   72.24673 (12012517)
        440506.61   3762058.86   64.95149 (15071919)   440556.61
3762058.86   59.76635 (13012317)
        440606.61   3762058.86   53.99498 (12012417)   440656.61
3762058.86   49.36851 (12092121)
        440706.61   3762058.86   45.14116 (15080521)   440756.61
3762058.86   40.91292 (15091324)
        440806.61   3762058.86   37.53472 (16062022)   440856.61
3762058.86   34.40978 (15091122)
        440906.61   3762058.86   31.74366 (13051806)   440956.61
3762058.86   29.17286 (13051806)
        441006.61   3762058.86   26.94541 (16072722)   441056.61
3762058.86   25.02925 (12081321)
        441106.61   3762058.86   23.36686 (12081321)   441156.61
3762058.86   21.91025 (16061206)
        440191.38   3762138.44   118.46624 (14050102)   440241.38
3762138.44   123.20545 (15060806)
        440291.38   3762138.44   123.92563 (16061406)   440341.38
3762138.44   115.42443 (12020717)
        440191.38   3762188.44   158.81457 (16020317)   440241.38
3762188.44   164.04337 (15060806)
        440291.38   3762188.44   165.67574 (16061922)   440341.38
3762188.44   149.93091 (14100521)
        440191.38   3762238.44   242.22954 (16020317)   440241.38
3762238.44   239.32775 (16092606)
        440291.38   3762238.44   240.04534 (15082821)   440341.38
3762238.44   218.68308 (12012917)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                  INCLUDING SOURCE(S):   L0013628   , L0013629
, L0013630   , L0013631   , L0013632   ,
                 L0013633   , L0013634   , L0013635   , L0013636   , L0013637
, L0013638   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	19.95081	(15102822)	439943.36	3761716.33	26.71074	(14100421)
439170.17	3763092.51	16.54629	(15072001)	439220.17	3763092.51	17.86030	(15072001)
439270.17	3763092.51	18.60716	(15010620)	439320.17	3763092.51	20.28865	(16102806)
439370.17	3763092.51	21.55082	(15101220)	439420.17	3763092.51	22.24428	(14030901)
439470.17	3763092.51	21.93767	(13101421)	439520.17	3763092.51	23.15696	(16102418)
439570.17	3763092.51	24.73393	(14030104)	439620.17	3763092.51	27.54096	(15070104)
439670.17	3763092.51	30.53516	(14010617)	439720.17	3763092.51	33.39275	(15031521)
439770.17	3763092.51	35.40202	(15090205)	439820.17	3763092.51	37.02792	(12010219)
439870.17	3763092.51	40.33488	(14091524)	439170.17	3763142.51	16.92584	(15091002)
439220.17	3763142.51	18.61778	(16102806)	439270.17	3763142.51	18.78527	(15101220)
439320.17	3763142.51	20.95559	(15101220)	439370.17	3763142.51	21.55544	(15101220)
439420.17	3763142.51	21.55346	(13101421)	439470.17	3763142.51	23.49118	(15102306)
439520.17	3763142.51	24.91331	(15102306)	439570.17	3763142.51	25.86627	(15070104)
439620.17	3763142.51	27.33792	(15070104)	439670.17	3763142.51	30.09340	(13111320)
439720.17	3763142.51	32.31166	(15090205)	439770.17	3763142.51	33.55125	(16102019)
439820.17	3763142.51	36.32323	(14091524)	439870.17	3763142.51	37.95204	(13090904)
439170.17	3763192.51	17.54191	(16102806)	439220.17	3763192.51	18.69340	(15101220)
439270.17	3763192.51	19.35205	(15101220)	439320.17	3763192.51	20.19964	(15101220)
439370.17	3763192.51	20.79736	(13101421)	439420.17	3763192.51	21.63142	(15102306)
439470.17	3763192.51	23.00172	(15102306)	439520.17	3763192.51	24.08492	(15070104)

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        439570.17   3763192.51       25.38791  (15070104)                439620.17
3763192.51       26.36202  (14010617)
        439670.17   3763192.51       29.48905  (15090205)                439720.17
3763192.51       31.25992  (15100522)
        439770.17   3763192.51       33.48167  (12010219)                439820.17
3763192.51       35.40580  (14091524)
        439870.17   3763192.51       36.30845  (12091522)                439170.17
3763242.51       18.48192  (15101220)
        439220.17   3763242.51       19.27267  (15101220)                439270.17
3763242.51       19.28004  (15101220)
        439320.17   3763242.51       20.11253  (16040804)                439370.17
3763242.51       21.24111  (15082702)
        439420.17   3763242.51       21.97812  (15102306)                439470.17
3763242.51       23.19763  (16040703)
        439520.17   3763242.51       24.41526  (15070104)                439570.17
3763242.51       25.44670  (13111320)
        439620.17   3763242.51       26.52112  (15090205)                439670.17
3763242.51       27.91090  (15100522)
        439720.17   3763242.51       30.04517  (12010219)                439770.17
3763242.51       32.39046  (14091524)
        439820.17   3763242.51       33.60020  (13090904)                439870.17
3763242.51       35.43325  (15081402)
        439170.17   3763292.51       18.56559  (15101220)                439220.17
3763292.51       19.31389  (12071302)
        439270.17   3763292.51       20.10924  (15082702)                439320.17
3763292.51       20.87049  (15082702)
        439370.17   3763292.51       20.82480  (15102306)                439420.17
3763292.51       22.02399  (15013007)
        439470.17   3763292.51       23.52187  (15092402)                439520.17
3763292.51       24.62698  (13111320)
        439570.17   3763292.51       24.92656  (15090205)                439620.17
3763292.51       26.07153  (15090205)
        439670.17   3763292.51       27.24261  (15031421)                439720.17
3763292.51       29.26578  (12010219)
        439770.17   3763292.51       31.39662  (13090904)                439820.17
3763292.51       32.99874  (12091522)
        439870.17   3763292.51       34.08385  (15100921)                439170.17
3763342.51       18.19123  (14120303)
        439220.17   3763342.51       19.38255  (15082702)                439270.17
3763342.51       19.83820  (15082702)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:31:51

                                   PAGE  66
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
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, L0013630   , L0013631   , L0013632   ,
                L0013633   , L0013634   , L0013635   , L0013636   , L0013637
, L0013638   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439320.17   3763342.51   20.27955 (12081704)   439370.17
3763342.51   20.42955 (15013007)
        439420.17   3763342.51   21.79282 (15092402)   439470.17
3763342.51   22.86580 (13111320)
        439520.17   3763342.51   23.92846 (16072323)   439570.17
3763342.51   24.63291 (15090205)
        439620.17   3763342.51   25.22769 (15031421)   439670.17
3763342.51   26.68847 (12010219)
        439720.17   3763342.51   28.47406 (14091524)   439770.17
3763342.51   30.41438 (15092601)
        439820.17   3763342.51   32.03780 (15081402)   439870.17
3763342.51   32.80663 (15070102)
        439170.17   3763392.51   18.42011 (15082702)   439220.17
3763392.51   19.35578 (15082702)
        439270.17   3763392.51   19.52504 (12081704)   439320.17
3763392.51   20.39726 (15063003)
        439370.17   3763392.51   21.02043 (15062721)   439420.17
3763392.51   21.93178 (15062224)
        439470.17   3763392.51   23.00842 (16072323)   439520.17
3763392.51   23.31866 (15090205)
        439570.17   3763392.51   23.94971 (15031421)   439620.17
3763392.51   24.59202 (15031421)
        439670.17   3763392.51   26.11728 (14091524)   439720.17
3763392.51   27.24423 (13090904)
        439770.17   3763392.51   29.26454 (12091522)   439820.17
3763392.51   30.63252 (15081402)
        439870.17   3763392.51   31.56784 (15070102)   439170.17
3763442.51   18.47942 (15082702)
        439220.17   3763442.51   19.40763 (12081704)   439270.17
3763442.51   19.25220 (15063003)
        439320.17   3763442.51   20.09294 (15062721)   439370.17
3763442.51   20.65630 (15062721)
        439420.17   3763442.51   21.31854 (15062224)   439470.17
3763442.51   22.45378 (16072323)
        439520.17   3763442.51   22.82561 (16072103)   439570.17
3763442.51   23.74937 (13091323)
        439620.17   3763442.51   24.33864 (12010219)   439670.17

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3763442.51       25.51223  (14091524)
        439720.17   3763442.51       26.67360  (15092601)                439770.17
3763442.51       28.44055  (15081402)
        439820.17   3763442.51       29.06186  (14092706)                439870.17
3763442.51       30.40871  (13082824)
        439203.20   3762911.16       15.62598  (15090919)                439253.20
3762911.16       16.51756  (15090919)
        439303.20   3762911.16       17.29260  (15090919)                439353.20
3762911.16       18.03024  (15021103)
        439403.20   3762911.16       19.01853  (15021103)                439453.20
3762911.16       20.17604  (16122818)
        439503.20   3762911.16       21.88879  (15031221)                439553.20
3762911.16       23.57278  (15031221)
        439203.20   3762961.16       15.11549  (15090919)                439253.20
3762961.16       15.64011  (15021103)
        439303.20   3762961.16       16.45137  (15021103)                439353.20
3762961.16       17.34149  (16122818)
        439403.20   3762961.16       18.42473  (15031221)                439453.20
3762961.16       19.92924  (15031221)
        439503.20   3762961.16       21.13930  (15031221)                439553.20
3762961.16       21.96527  (13101603)
        439203.20   3763011.16       15.48120  (15021103)                439253.20
3763011.16       16.84873  (15072001)
        439303.20   3763011.16       18.40983  (15072001)                439353.20
3763011.16       19.92304  (15031221)
        439403.20   3763011.16       18.18631  (15031221)                439453.20
3763011.16       19.41237  (15031221)
        439503.20   3763011.16       19.88607  (13101603)                439553.20
3763011.16       21.98939  (15120219)
        439203.20   3763061.16       16.82200  (15072001)                439253.20
3763061.16       18.77285  (15072001)
        439303.20   3763061.16       19.57599  (15010620)                439353.20
3763061.16       21.32410  (16102806)
        439403.20   3763061.16       21.63052  (12020718)                439453.20
3763061.16       22.03230  (15120219)
        439503.20   3763061.16       22.50286  (13101421)                439553.20
3763061.16       24.59527  (16102418)
        439196.01   3762392.48       17.63402  (14020117)                439246.01
3762392.48       18.83756  (14020117)
        439296.01   3762392.48       20.17814  (14020117)                439346.01
3762392.48       21.68704  (14020117)
        439396.01   3762392.48       23.39132  (14020117)                439446.01
3762392.48       25.31373  (14020117)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

                                PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	27.56804	(14020117)	439546.01	3762392.48	30.21475	(14020117)
439196.01	3762442.48	17.73525	(16102417)	439246.01	3762442.48	18.92050	(16102417)
439296.01	3762442.48	20.27324	(16102417)	439346.01	3762442.48	21.76743	(16102417)
439396.01	3762442.48	23.46072	(16102417)	439446.01	3762442.48	25.39721	(16102417)
439496.01	3762442.48	27.60798	(16102417)	439546.01	3762442.48	30.16500	(16102417)
439196.01	3762492.48	17.26834	(16122920)	439246.01	3762492.48	18.40681	(16122920)
439296.01	3762492.48	19.69545	(16122920)	439346.01	3762492.48	21.20899	(15051306)
439396.01	3762492.48	22.91310	(15051306)	439446.01	3762492.48	24.84077	(15051306)
439496.01	3762492.48	27.06628	(15051306)	439546.01	3762492.48	29.60013	(15051306)
439196.01	3762542.48	17.14682	(15051306)	439246.01	3762542.48	18.21775	(15051306)
439296.01	3762542.48	19.47260	(16022406)	439346.01	3762542.48	20.90328	(16022406)
439396.01	3762542.48	22.50533	(16022406)	439446.01	3762542.48	24.44139	(13122517)
439496.01	3762542.48	26.66088	(13122517)	439546.01	3762542.48	29.12017	(13122517)
439196.01	3762592.48	17.00515	(13122517)	439246.01	3762592.48	18.13750	(13122517)
439296.01	3762592.48	19.35525	(13122517)	439346.01	3762592.48	20.69097	(12112807)
439396.01	3762592.48	22.20536	(12112807)	439446.01	3762592.48	24.22946	(15031224)
439496.01	3762592.48	26.48337	(15031224)	439546.01	3762592.48	28.91178	(15031224)

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        439196.01   3762642.48       16.79656  (15031224)                439246.01
3762642.48       18.01941  (15031224)
        439296.01   3762642.48       19.31436  (15031224)                439346.01
3762642.48       20.68156  (15031224)
        439396.01   3762642.48       22.23617  (15031223)                439446.01
3762642.48       24.20928  (15063019)
        439496.01   3762642.48       26.55262  (15063019)                439546.01
3762642.48       29.01868  (15063019)
        439196.01   3762692.48       16.75000  (15031223)                439246.01
3762692.48       17.90297  (15031223)
        439296.01   3762692.48       19.29549  (15063019)                439346.01
3762692.48       20.82309  (15063019)
        439396.01   3762692.48       22.39718  (15063019)                439446.01
3762692.48       24.00451  (15063019)
        439496.01   3762692.48       25.58919  (15063019)                439546.01
3762692.48       27.43268  (15112017)
        439196.01   3762742.48       16.92003  (15063019)                439246.01
3762742.48       18.00812  (15063019)
        439296.01   3762742.48       19.09466  (15063019)                439346.01
3762742.48       20.15493  (15063019)
        439396.01   3762742.48       21.18170  (16122919)                439446.01
3762742.48       22.95755  (15112017)
        439496.01   3762742.48       24.77153  (15112017)                439546.01
3762742.48       26.76364  (15090919)
        439196.01   3762792.48       16.42702  (15063019)                439246.01
3762792.48       17.13867  (15063019)
        439296.01   3762792.48       18.21614  (15112017)                439346.01
3762792.48       19.55636  (15112017)
        439396.01   3762792.48       20.83969  (15112017)                439446.01
3762792.48       22.38087  (15090919)
        439496.01   3762792.48       24.07287  (15090919)                439546.01
3762792.48       25.54343  (15090919)
        439196.01   3762842.48       15.90819  (15112017)                439246.01
3762842.48       16.91350  (15112017)
        439296.01   3762842.48       17.84550  (15112017)                439346.01
3762842.48       19.08932  (15090919)
        439396.01   3762842.48       20.35544  (15090919)                439446.01
3762842.48       21.44798  (15090919)
        439496.01   3762842.48       22.60571  (15021103)                439546.01
3762842.48       24.11881  (16122818)
        439573.31   3762470.54       31.13921  (15051306)                439623.31
3762470.54       34.53523  (15051306)
        439673.31   3762470.54       38.53404  (15051306)                439723.31
3762470.54       43.28928  (15051306)
        439773.31   3762470.54       49.05294  (15051306)                439823.31
3762470.54       56.07544  (15051306)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***          04/03/23
 *** AERMET - VERSION  16216 ***   ***
                          ***         21:31:51
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	65.34421	(13122517)	439573.31	3762520.54	30.73382	(13122517)
439623.31	3762520.54	34.02919	(13122517)	439673.31	3762520.54	37.83676	(13122517)
439723.31	3762520.54	42.22777	(12112807)	439773.31	3762520.54	48.22902	(15031224)
439823.31	3762520.54	55.34998	(15031224)	439873.31	3762520.54	65.16779	(15063019)
439573.31	3762570.54	30.54799	(15031224)	439623.31	3762570.54	33.74544	(15031224)
439673.31	3762570.54	37.49097	(15063019)	439723.31	3762570.54	42.61060	(15063019)
439773.31	3762570.54	48.30319	(15063019)	439823.31	3762570.54	54.42480	(15063019)
439873.31	3762570.54	61.85229	(15112017)	439573.31	3762620.54	30.66430	(15063019)
439623.31	3762620.54	33.78898	(15063019)	439673.31	3762620.54	37.02926	(15063019)
439723.31	3762620.54	40.26543	(15112017)	439773.31	3762620.54	45.49134	(15112017)
439823.31	3762620.54	51.55656	(15090919)	439873.31	3762620.54	58.11964	(15090919)
439573.31	3762670.54	29.25105	(15063019)	439623.31	3762670.54	32.00394	(15112017)
439673.31	3762670.54	35.20252	(15112017)	439723.31	3762670.54	39.13526	(15090919)
439773.31	3762670.54	43.08425	(15090919)	439823.31	3762670.54	47.17882	(16122818)
439873.31	3762670.54	54.14963	(15031221)	439152.35	3761448.92	10.90682	(14042901)
439202.35	3761448.92	11.28931	(14042901)	439252.35			

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3761448.92       11.57031  (16020619)
        439302.35   3761448.92       11.95827  (16021419)                439352.35
3761448.92       12.41498  (16021419)
        439402.35   3761448.92       12.71685  (12010822)                439452.35
3761448.92       13.14967  (12010822)
        439502.35   3761448.92       13.67578  (15031301)                439552.35
3761448.92       14.23878  (15031301)
        439152.35   3761498.92       11.17056  (14043002)                439202.35
3761498.92       11.65534  (14042901)
        439252.35   3761498.92       12.23179  (14042901)                439302.35
3761498.92       12.48290  (16020619)
        439352.35   3761498.92       12.90285  (16021419)                439402.35
3761498.92       13.37807  (16021419)
        439452.35   3761498.92       13.72101  (12010822)                439502.35
3761498.92       14.22167  (12010822)
        439552.35   3761498.92       14.89180  (15031301)                439152.35
3761548.92       11.66568  (14043002)
        439202.35   3761548.92       12.01202  (14043002)                439252.35
3761548.92       12.49525  (14042901)
        439302.35   3761548.92       13.06316  (14042901)                439352.35
3761548.92       13.36424  (16020619)
        439402.35   3761548.92       13.87701  (16021419)                439452.35
3761548.92       14.43506  (16021419)
        439502.35   3761548.92       14.90182  (12010822)                439552.35
3761548.92       15.47769  (14110501)
        439152.35   3761598.92       12.05476  (13101522)                439202.35
3761598.92       12.45433  (14043002)
        439252.35   3761598.92       12.93510  (14043002)                439302.35
3761598.92       13.35676  (14042901)
        439352.35   3761598.92       14.03169  (14042901)                439402.35
3761598.92       14.51059  (14042901)
        439452.35   3761598.92       15.10464  (16021419)                439502.35
3761598.92       15.70768  (16021419)
        439552.35   3761598.92       16.32760  (12010822)                439152.35
3761648.92       12.27654  (13101522)
        439202.35   3761648.92       12.90426  (13101522)                439252.35
3761648.92       13.39177  (13101522)
        439302.35   3761648.92       14.00050  (14043002)                439352.35
3761648.92       14.36962  (14042901)
        439402.35   3761648.92       15.29524  (14042901)                439452.35
3761648.92       15.87174  (14042901)
        439502.35   3761648.92       16.55502  (16021419)                439552.35
3761648.92       17.31849  (16021419)
        439152.35   3761698.92       12.81100  (16101918)                439202.35
3761698.92       13.13148  (16101918)
        439252.35   3761698.92       13.81683  (13101522)                439302.35
3761698.92       14.48280  (13101522)
        439352.35   3761698.92       15.17132  (14043002)                439402.35
3761698.92       15.74598  (14043002)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
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                            *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE   ***
                                 INCLUDING SOURCE(S):   L0013628   , L0013629 , L0013630   , L0013631   , L0013632   ,
                L0013633   , L0013634   , L0013635   , L0013636   , L0013637 , L0013638   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                              ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
        439502.35   3761848.92       19.81742  (13101522)              439552.35
3761848.92       21.09335  (14043002)
        439152.35   3761898.92       14.27811  (14051322)              439202.35
3761898.92       15.08982  (14051322)
        439252.35   3761898.92       15.76568  (14051322)              439302.35
3761898.92       16.55250  (16112908)
        439352.35   3761898.92       17.28933  (13100622)              439402.35
3761898.92       18.49593  (16101918)
        439452.35   3761898.92       19.83610  (16101918)              439502.35
3761898.92       20.76397  (16101918)
        439552.35   3761898.92       22.34003  (13101522)              439152.35
3761948.92       14.62254  (15031321)
        439202.35   3761948.92       15.36120  (15031321)              439252.35
3761948.92       16.11037  (14051322)
        439302.35   3761948.92       17.27818  (14051322)              439352.35
3761948.92       18.25789  (14051322)
        439402.35   3761948.92       19.12594  (16112908)              439452.35
3761948.92       20.22489  (16101918)
        439502.35   3761948.92       22.03922  (16101918)              439552.35
3761948.92       23.54430  (16101918)
        439152.35   3761998.92       14.94598  (16092601)              439202.35
3761998.92       15.61988  (16092601)
        439252.35   3761998.92       16.52176  (15031321)              439302.35
3761998.92       17.65710  (15031321)
        439352.35   3761998.92       18.72997  (14051322)              439402.35
3761998.92       20.05447  (14051322)
        439452.35   3761998.92       21.37529  (14051322)              439502.35
3761998.92       22.63606  (13100622)
        439552.35   3761998.92       24.30642  (16101918)              439152.35
3762048.92       15.39957  (14051419)
        439202.35   3762048.92       16.12065  (14051419)              439252.35
3762048.92       17.10036  (16092601)
        439302.35   3762048.92       18.13794  (16092601)              439352.35
3762048.92       19.22181  (15031321)
        439402.35   3762048.92       20.62160  (15031321)              439452.35
3762048.92       22.01355  (15031321)
        439502.35   3762048.92       23.88514  (14051322)              439552.35
3762048.92       25.69050  (14051322)
        439616.61   3761420.65       14.23626  (12110417)              439666.61
3761420.65       15.33617  (12110417)
        439716.61   3761420.65       15.83924  (13101517)              439766.61
3761420.65       15.88149  (13101517)
        439816.61   3761420.65       16.30750  (14100421)              439866.61
3761420.65       16.87984  (13101419)
        439616.61   3761470.65       14.99155  (13112508)              439666.61
3761470.65       15.80239  (12110417)
        439716.61   3761470.65       16.76292  (12110417)              439766.61
3761470.65       17.13725  (13101517)
        439816.61   3761470.65       17.26856  (16092523)              439866.61
3761470.65       17.91451  (13101419)
        439616.61   3761520.65       15.94217  (13112508)              439666.61
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                  INCLUDING SOURCE(S):   L0013628   , L0013629
, L0013630   , L0013631   , L0013632   ,
                 L0013633   , L0013634   , L0013635   , L0013636   , L0013637
, L0013638   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439716.61   3761520.65   17.55545 (12110417)   439766.61
3761520.65   18.33488 (12110417)
        439816.61   3761520.65   18.45505 (13101517)   439866.61
3761520.65   19.05886 (14100421)
        439616.61   3761570.65   16.82916 (15031301)   439666.61
3761570.65   17.46702 (13112508)
        439716.61   3761570.65   18.10703 (12110417)   439766.61
3761570.65   19.58062 (12110417)
        439816.61   3761570.65   20.15940 (13101517)   439866.61
3761570.65   20.36009 (16092523)
        440451.14   3762893.83   61.95660 (16101920)   440501.14
3762893.83   56.81802 (14062506)
        440551.14   3762893.83   51.72074 (13110717)   440601.14
3762893.83   49.50146 (14090206)
        440651.14   3762893.83   46.53312 (13060506)   440701.14
3762893.83   43.70361 (15070406)
        440751.14   3762893.83   39.09922 (15070606)   440801.14
3762893.83   36.01308 (15100419)
        440851.14   3762893.83   31.84997 (15073021)   440451.14
3762943.83   58.32585 (16070206)
        440501.14   3762943.83   55.39035 (16012217)   440551.14
3762943.83   50.23256 (14063005)
        440601.14   3762943.83   48.80353 (15090821)   440651.14
3762943.83   44.96651 (15061306)
        440701.14   3762943.83   42.11630 (16070606)   440751.14

3762943.83 38.06046 (15070406)
440801.14 3762943.83 36.39813 (15031520) 440851.14
3762943.83 34.70964 (16080301)
441116.67 3763135.31 25.24921 (15071801) 441166.67
3763135.31 23.93786 (15082522)
441116.67 3763185.31 24.97171 (16071302) 441166.67
3763185.31 23.38037 (15071801)
441116.67 3763235.31 24.37499 (13070502) 441166.67
3763235.31 23.08699 (15072905)
441116.67 3763285.31 24.87239 (15062901) 441166.67
3763285.31 22.89758 (13070502)
441116.67 3763335.31 24.43862 (15080603) 441166.67
3763335.31 23.31260 (15062901)
441116.67 3763385.31 23.96193 (15082423) 441166.67
3763385.31 23.15663 (15080603)
441116.67 3763435.31 23.62123 (15062124) 441166.67
3763435.31 22.81388 (15082423)
440433.43 3762815.13 66.03300 (16012217) 440483.43
3762815.13 58.79784 (16101601)
440533.43 3762815.13 52.54622 (16111017) 440583.43
3762815.13 49.66066 (12082820)
440633.43 3762815.13 44.42687 (13072106) 440683.43
3762815.13 40.67185 (15070606)
440733.43 3762815.13 38.07211 (13062920) 440783.43
3762815.13 34.35474 (16061306)
440833.43 3762815.13 32.97196 (16061306) 440883.43
3762815.13 30.21576 (13051321)
440933.43 3762815.13 26.94442 (15092020) 440983.43
3762815.13 25.04572 (15092020)
440433.43 3762865.13 62.83361 (13072121) 440483.43
3762865.13 60.05755 (16012217)
440533.43 3762865.13 54.29082 (13110717) 440583.43
3762865.13 50.02422 (16111017)
440633.43 3762865.13 46.93095 (12082820) 440683.43
3762865.13 43.69740 (15070406)
440733.43 3762865.13 40.52675 (15070606) 440783.43
3762865.13 36.39633 (13062920)
440833.43 3762865.13 31.98086 (15060920) 440883.43
3762865.13 28.48004 (16061306)
440933.43 3762865.13 25.51918 (13012217) 440983.43
3762865.13 24.07352 (13051321)
441118.27 3762686.02 22.39687 (13090620) 441168.27
3762686.02 20.90635 (13083023)
441118.27 3762736.02 21.76878 (16092820) 441168.27
3762736.02 20.29857 (12092120)
441118.27 3762786.02 21.13192 (15072203) 441168.27
3762786.02 19.94324 (15091021)
441118.27 3762836.02 20.78427 (15062719) 441168.27
3762836.02 19.44818 (15062719)
440411.67 3762093.41 81.16310 (15012217) 440461.67
3762093.41 72.37016 (12012517)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 ,
L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	84.51375	(15071919)	440511.67	3762143.41	73.70221	(15091323)
440561.67	3762143.41	65.10493	(12092121)	440611.67	3762143.41	57.73555	(15080521)
440406.61	3762008.86	60.40303	(14011422)	440456.61	3762008.86	57.91833	(15012217)
440506.61	3762008.86	53.50483	(12012517)	440556.61	3762008.86	48.82288	(15071919)
440606.61	3762008.86	45.06078	(13012317)	440656.61	3762008.86	40.94215	(12012417)
440706.61	3762008.86	38.03863	(12012417)	440756.61	3762008.86	35.18332	(15070806)
440806.61	3762008.86	32.08627	(15080521)	440856.61	3762008.86	29.55255	(16083020)
440906.61	3762008.86	27.71753	(16062022)	440956.61	3762008.86	25.71206	(15091122)
441006.61	3762008.86	23.85229	(13051806)	441056.61	3762008.86	22.30733	(13051806)
441106.61	3762008.86	20.74257	(16072722)	441156.61	3762008.86	19.45766	(12080921)
440406.61	3762058.86	71.14638	(14100521)	440456.61	3762058.86	67.09693	(12012517)

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        440506.61   3762058.86       59.79121  (16021220)                440556.61
3762058.86       54.82846  (13012317)
        440606.61   3762058.86       49.22296  (12012417)                440656.61
3762058.86       44.96634  (12012417)
        440706.61   3762058.86       41.21635  (15070806)                440756.61
3762058.86       37.36508  (15091324)
        440806.61   3762058.86       34.20733  (16062022)                440856.61
3762058.86       31.46619  (15091122)
        440906.61   3762058.86       28.91692  (13051806)                440956.61
3762058.86       26.89092  (13051806)
        441006.61   3762058.86       24.78418  (16072722)                441056.61
3762058.86       22.99997  (12080921)
        441106.61   3762058.86       21.52188  (12081321)                441156.61
3762058.86       20.11942  (12081321)
        440191.38   3762138.44      109.58706  (14050102)                440241.38
3762138.44      114.68665  (15060806)
        440291.38   3762138.44      114.58153  (16061406)                440341.38
3762138.44      108.24249  (12020717)
        440191.38   3762188.44      145.38480  (14050102)                440241.38
3762188.44      153.28150  (15060806)
        440291.38   3762188.44      152.21651  (16061922)                440341.38
3762188.44      140.52468  (14100521)
        440191.38   3762238.44      228.33386  (16020317)                440241.38
3762238.44      229.49464  (14113016)
        440291.38   3762238.44      220.28066  (15082821)                440341.38
3762238.44      192.11803  (15012217)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:31:51

                                    PAGE  72
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2OFFSIT ***
                                    INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
                  L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                  L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                  L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440407.86   3761497.84       13.44675  (12092021)               439943.36
3761716.33        9.51907  (16101918)
        439170.17   3763092.51        8.98608  (15072001)               439220.17
3763092.51        9.60593  (15072001)
        439270.17   3763092.51       10.01796  (15072001)               439320.17
3763092.51       10.61055  (15072001)
        439370.17   3763092.51       11.17828  (15072001)               439420.17
3763092.51       11.79783  (16122818)
        439470.17   3763092.51       12.73856  (15090919)               439520.17
3763092.51       13.87829  (15090919)
        439570.17   3763092.51       15.33780  (15031221)               439620.17
3763092.51       17.25456  (15031221)
        439670.17   3763092.51       19.30382  (15031221)               439720.17
3763092.51       21.43724  (15120219)
        439770.17   3763092.51       23.94188  (16102418)               439820.17
3763092.51       26.06209  (15060905)
        439870.17   3763092.51       28.07626  (15060905)               439170.17
3763142.51        9.42334  (15072001)
        439220.17   3763142.51        9.94567  (15072001)               439270.17
3763142.51       10.37384  (15072001)
        439320.17   3763142.51       10.96339  (15072001)               439370.17
3763142.51       11.55747  (15072001)
        439420.17   3763142.51       12.35502  (15031221)               439470.17
3763142.51       13.43790  (15031221)
        439520.17   3763142.51       14.64465  (15031221)               439570.17
3763142.51       15.95224  (15031221)
        439620.17   3763142.51       17.33107  (15031221)               439670.17
3763142.51       19.14319  (13101421)
        439720.17   3763142.51       21.10229  (16102418)               439770.17
3763142.51       22.84671  (15060905)
        439820.17   3763142.51       24.91759  (15060905)               439870.17
3763142.51       25.96123  (14091605)
        439170.17   3763192.51        9.74800  (15072001)               439220.17
3763192.51       10.18367  (15072001)
        439270.17   3763192.51       10.60565  (15072001)               439320.17
3763192.51       11.28953  (15010620)
        439370.17   3763192.51       12.02510  (15031221)               439420.17
3763192.51       12.85559  (15031221)
        439470.17   3763192.51       13.79634  (15031221)               439520.17
3763192.51       14.75225  (15031221)
        439570.17   3763192.51       16.00922  (15120219)               439620.17
3763192.51       17.37661  (13101421)
        439670.17   3763192.51       19.09677  (16102418)               439720.17
3763192.51       20.57225  (14030104)
        439770.17   3763192.51       22.44550  (15060905)               439820.17
3763192.51       23.45694  (14091605)
        439870.17   3763192.51       24.33876  (16102019)               439170.17
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3763242.51        9.91916  (15072001)
        439220.17   3763242.51       10.36176  (15010620)               439270.17
3763242.51       10.94419  (15031221)
        439320.17   3763242.51       11.59835  (15031221)               439370.17
3763242.51       12.27635  (15031221)
        439420.17   3763242.51       12.97786  (12020718)               439470.17
3763242.51       13.90390  (15120219)
        439520.17   3763242.51       14.96439  (15120219)               439570.17
3763242.51       16.05472  (13101421)
        439620.17   3763242.51       17.18888  (16102418)               439670.17
3763242.51       18.45945  (14030104)
        439720.17   3763242.51       20.23246  (15060905)               439770.17
3763242.51       21.35706  (15060905)
        439820.17   3763242.51       22.26982  (14091605)               439870.17
3763242.51       23.20589  (16102019)
        439170.17   3763292.51       10.31046  (15010620)               439220.17
3763292.51       10.96446  (16102806)
        439270.17   3763292.51       11.48807  (15101220)               439320.17
3763292.51       12.00581  (12020718)
        439370.17   3763292.51       12.48864  (12020718)               439420.17
3763292.51       13.46233  (15120219)
        439470.17   3763292.51       14.41015  (13101421)               439520.17
3763292.51       15.45348  (13101421)
        439570.17   3763292.51       16.19779  (16102418)               439620.17
3763292.51       17.01844  (14030104)
        439670.17   3763292.51       18.34958  (15060905)               439720.17
3763292.51       19.51029  (15060905)
        439770.17   3763292.51       20.48807  (14091605)               439820.17
3763292.51       21.23677  (16102019)
        439870.17   3763292.51       21.97048  (16102019)               439170.17
3763342.51       10.60358  (16102806)
        439220.17   3763342.51       11.28410  (15101220)               439270.17
3763342.51       11.60613  (12020718)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:31:51

                                    PAGE  73
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2OFFSIT ***
                                    INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
                  L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                  L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                  L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	12.17985	(14030901)	439370.17	3763342.51	12.74483	(15120219)
439420.17	3763342.51	13.56236	(13101421)	439470.17	3763342.51	14.45016	(16102418)
439520.17	3763342.51	15.30047	(16102418)	439570.17	3763342.51	15.89653	(14030104)
439620.17	3763342.51	16.90808	(15060905)	439670.17	3763342.51	17.92026	(15060905)
439720.17	3763342.51	18.71621	(14091605)	439770.17	3763342.51	19.51285	(16122917)
439820.17	3763342.51	20.68279	(16102019)	439870.17	3763342.51	20.96966	(14091524)
439170.17	3763392.51	10.92410	(15101220)	439220.17	3763392.51	11.38512	(15101220)
439270.17	3763392.51	11.74997	(14030901)	439320.17	3763392.51	12.40114	(15120219)
439370.17	3763392.51	13.00674	(13101421)	439420.17	3763392.51	13.75104	(16102418)
439470.17	3763392.51	14.44726	(16102418)	439520.17	3763392.51	14.94177	(14030104)
439570.17	3763392.51	15.80430	(15060905)	439620.17	3763392.51	16.60937	(15060905)
439670.17	3763392.51	17.30706	(14091605)	439720.17	3763392.51	17.93904	(14091605)
439770.17	3763392.51	19.07587	(16102019)	439820.17	3763392.51	20.23434	(14091524)
439870.17	3763392.51	21.80208	(14091524)	439170.17	3763442.51	11.01422	(15101220)
439220.17	3763442.51	11.44112	(14030901)	439270.17	3763442.51	11.79733	(15120219)
439320.17	3763442.51	12.40407	(13101421)	439370.17	3763442.51	12.99197	(16102418)
439420.17	3763442.51	13.53020	(16102418)	439470.17	3763442.51	14.10960	(16040703)
439520.17	3763442.51	14.84166	(15070104)	439570.17	3763442.51	15.60322	(15060905)
439620.17	3763442.51	16.05145	(15031521)	439670.17	3763442.51	16.75392	(15031521)
439720.17	3763442.51	17.38703	(16102019)	439770.17	3763442.51	19.14394	(16102019)

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        439820.17   3763442.51       20.43999  (14091524)                439870.17
3763442.51       20.83452  (14091524)
        439203.20   3762911.16        8.30020  (15090919)                439253.20
3762911.16        8.66171  (15090919)
        439303.20   3762911.16        9.03923  (15051306)                439353.20
3762911.16        9.74901  (15051306)
        439403.20   3762911.16       10.58362  (15051306)                439453.20
3762911.16       11.58105  (15051306)
        439503.20   3762911.16       12.77892  (15051306)                439553.20
3762911.16       14.27249  (15051306)
        439203.20   3762961.16        8.48437  (15090919)                439253.20
3762961.16        8.72848  (15090919)
        439303.20   3762961.16        9.12795  (13122517)                439353.20
3762961.16        9.84773  (13122517)
        439403.20   3762961.16       10.68409  (13122517)                439453.20
3762961.16       11.67234  (13122517)
        439503.20   3762961.16       12.83318  (13122517)                439553.20
3762961.16       14.23447  (13122517)
        439203.20   3763011.16        8.73425  (15090919)                439253.20
3763011.16        9.10379  (15072001)
        439303.20   3763011.16        9.65775  (15072001)                439353.20
3763011.16       10.16975  (15072001)
        439403.20   3763011.16       10.94983  (15063019)                439453.20
3763011.16       12.00014  (15063019)
        439503.20   3763011.16       13.25623  (15063019)                439553.20
3763011.16       14.75025  (15063019)
        439203.20   3763061.16        9.09873  (15072001)                439253.20
3763061.16        9.68026  (15072001)
        439303.20   3763061.16       10.20174  (15072001)                439353.20
3763061.16       10.72019  (15072001)
        439403.20   3763061.16       11.23096  (15072001)                439453.20
3763061.16       12.12076  (15063019)
        439503.20   3763061.16       13.20786  (15090919)                439553.20
3763061.16       14.62732  (15090919)
        439196.01   3762392.48        6.79982  (13122517)                439246.01
3762392.48        7.11450  (13122517)
        439296.01   3762392.48        7.44456  (13122517)                439346.01
3762392.48        7.79083  (13122517)
        439396.01   3762392.48        8.15294  (13122517)                439446.01
3762392.48        8.52896  (13122517)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:31:51

                                   PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2OFFSIT ***
                                   INCLUDING SOURCE(S):     L0012702    , L0012703
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, L0012704   , L0012705   , L0012706   ,
                L0012707   , L0012708   , L0012709   , L0012710   , L0012711
, L0012712   , L0012713   , L0012714   ,
                L0012715   , L0012716   , L0012717   , L0012718   , L0012719
, L0012720   , L0012721   , L0012722   ,
                L0012723   , L0012724   , L0012725   , L0012726   , L0012727
, L0012728   , L0012729   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439496.01   3762392.48   8.94335 (15110717)   439546.01
3762392.48   9.49065 (15031224)
        439196.01   3762442.48   6.83648 (13122517)   439246.01
3762442.48   7.10703 (13122517)
        439296.01   3762442.48   7.41119 (15110717)   439346.01
3762442.48   7.74654 (15031224)
        439396.01   3762442.48   8.16670 (15031224)   439446.01
3762442.48   8.60368 (15031224)
        439496.01   3762442.48   9.05477 (15031224)   439546.01
3762442.48   9.56945 (15031223)
        439196.01   3762492.48   6.82798 (15031224)   439246.01
3762492.48   7.15167 (15031224)
        439296.01   3762492.48   7.48710 (15031224)   439346.01
3762492.48   7.83134 (15031224)
        439396.01   3762492.48   8.21196 (15031223)   439446.01
3762492.48   8.68828 (15063019)
        439496.01   3762492.48   9.23302 (15063019)   439546.01
3762492.48   9.79035 (15063019)
        439196.01   3762542.48   6.89441 (15031224)   439246.01
3762542.48   7.17862 (15031223)
        439296.01   3762542.48   7.52284 (15063019)   439346.01
3762542.48   7.94978 (15063019)
        439396.01   3762542.48   8.38670 (15063019)   439446.01
3762542.48   8.82931 (15063019)
        439496.01   3762542.48   9.27562 (15063019)   439546.01
3762542.48   9.71906 (15063019)
        439196.01   3762592.48   6.96719 (15063019)   439246.01
3762592.48   7.31737 (15063019)
        439296.01   3762592.48   7.67179 (15063019)   439346.01
3762592.48   8.02745 (15063019)
        439396.01   3762592.48   8.38210 (15063019)   439446.01
3762592.48   8.73389 (15063019)
        439496.01   3762592.48   9.25667 (15031321)   439546.01

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3762592.48        9.76295  (15031321)
        439196.01   3762642.48        7.06842  (15063019)                439246.01
3762642.48        7.35838  (15063019)
        439296.01   3762642.48        7.71158  (15030621)                439346.01
3762642.48        8.15348  (15030621)
        439396.01   3762642.48        8.70317  (14051419)                439446.01
3762642.48        9.32581  (14051419)
        439496.01   3762642.48        9.93799  (14051419)                439546.01
3762642.48       10.53483  (16092601)
        439196.01   3762692.48        7.35732  (15100918)                439246.01
3762692.48        7.75742  (15100918)
        439296.01   3762692.48        8.17981  (15100918)                439346.01
3762692.48        8.59553  (15100918)
        439396.01   3762692.48        9.00372  (13012017)                439446.01
3762692.48        9.70438  (15030621)
        439496.01   3762692.48       10.50022  (15030621)                439546.01
3762692.48       11.45354  (14051419)
        439196.01   3762742.48        7.41637  (13101422)                439246.01
3762742.48        7.90175  (15100918)
        439296.01   3762742.48        8.47718  (15100918)                439346.01
3762742.48        9.08666  (15100918)
        439396.01   3762742.48        9.75273  (15100918)                439446.01
3762742.48       10.47962  (15100918)
        439496.01   3762742.48       11.27519  (15100918)                439546.01
3762742.48       12.08030  (15100918)
        439196.01   3762792.48        7.85124  (15021220)                439246.01
3762792.48        8.14890  (14020117)
        439296.01   3762792.48        8.66350  (14020117)                439346.01
3762792.48        9.24937  (14020117)
        439396.01   3762792.48        9.90771  (14020117)                439446.01
3762792.48       10.71604  (13101422)
        439496.01   3762792.48       11.83683  (15100918)                439546.01
3762792.48       13.15720  (15100918)
        439196.01   3762842.48        7.99636  (15090919)                439246.01
3762842.48        8.31880  (16102417)
        439296.01   3762842.48        8.88598  (16102417)                439346.01
3762842.48        9.53579  (16102417)
        439396.01   3762842.48       10.29401  (16102417)                439446.01
3762842.48       11.21138  (14020117)
        439496.01   3762842.48       12.38202  (14020117)                439546.01
3762842.48       13.76803  (14020117)
        439573.31   3762470.54       10.06293  (15063019)                439623.31
3762470.54       10.69160  (15063019)
        439673.31   3762470.54       11.32608  (15063019)                439723.31
3762470.54       11.95856  (15063019)
        439773.31   3762470.54       12.58261  (15063019)                439823.31
3762470.54       13.43207  (15112017)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:31:51
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2OFFSIT ***

INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 , L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 , L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 , L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	14.39986	(15112017)	439573.31	3762520.54	10.05208	(15063019)
439623.31	3762520.54	10.54221	(15063019)	439673.31	3762520.54	11.02468	(15063019)
439723.31	3762520.54	11.72667	(15112017)	439773.31	3762520.54	12.49828	(15112017)
439823.31	3762520.54	13.44141	(15090919)	439873.31	3762520.54	14.42761	(15090919)
439573.31	3762570.54	9.77661	(15063019)	439623.31	3762570.54	10.37522	(15112017)
439673.31	3762570.54	11.00262	(15112017)	439723.31	3762570.54	11.72831	(15090919)
439773.31	3762570.54	12.54953	(15090919)	439823.31	3762570.54	13.34309	(15090919)
439873.31	3762570.54	14.10693	(15090919)	439573.31	3762620.54	10.52361	(15031321)
439623.31	3762620.54	11.16972	(14051322)	439673.31	3762620.54	11.67881	(16112908)
439723.31	3762620.54	12.39808	(16101918)	439773.31	3762620.54	12.72168	(14011519)
439823.31	3762620.54	13.10179	(16101919)	439873.31	3762620.54	14.23224	(15072001)
439573.31	3762670.54	11.42370	(14051419)	439623.31	3762670.54	12.27460	(15031321)
439673.31	3762670.54	13.16322	(15031321)	439723.31	3762670.54	13.96580	(14051322)

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        439773.31   3762670.54       14.78160  (16101918)              439823.31
3762670.54       15.14940  (14011519)
        439873.31   3762670.54       15.49574  (16101919)              439152.35
3761448.92        4.88580  (14051322)
        439202.35   3761448.92        4.96951  (14051322)              439252.35
3761448.92        5.06340  (14051322)
        439302.35   3761448.92        5.15040  (15071822)              439352.35
3761448.92        5.28358  (16101918)
        439402.35   3761448.92        5.45030  (16101918)              439452.35
3761448.92        5.60373  (16101918)
        439502.35   3761448.92        5.75483  (16101918)              439552.35
3761448.92        5.86613  (16101918)
        439152.35   3761498.92        4.98397  (14051322)              439202.35
3761498.92        5.12411  (14051322)
        439252.35   3761498.92        5.27695  (14051322)              439302.35
3761498.92        5.38580  (14051322)
        439352.35   3761498.92        5.49085  (14051322)              439402.35
3761498.92        5.58390  (14051322)
        439452.35   3761498.92        5.70667  (16101918)              439502.35
3761498.92        5.91728  (16101918)
        439552.35   3761498.92        6.09940  (16101918)              439152.35
3761548.92        5.09647  (15031321)
        439202.35   3761548.92        5.22706  (15031321)              439252.35
3761548.92        5.36203  (15031321)
        439302.35   3761548.92        5.50923  (14051322)              439352.35
3761548.92        5.65415  (14051322)
        439402.35   3761548.92        5.81544  (14051322)              439452.35
3761548.92        5.96123  (14051322)
        439502.35   3761548.92        6.09368  (14051322)              439552.35
3761548.92        6.23533  (13100622)
        439152.35   3761598.92        5.20728  (16092601)              439202.35
3761598.92        5.32063  (16092601)
        439252.35   3761598.92        5.49156  (15031321)              439302.35
3761598.92        5.65734  (15031321)
        439352.35   3761598.92        5.80097  (15031321)              439402.35
3761598.92        5.96354  (15031321)
        439452.35   3761598.92        6.17218  (14051322)              439502.35
3761598.92        6.36342  (14051322)
        439552.35   3761598.92        6.56880  (14051322)              439152.35
3761648.92        5.33532  (14051419)
        439202.35   3761648.92        5.48298  (16092601)              439252.35
3761648.92        5.65241  (16092601)
        439302.35   3761648.92        5.81815  (16092601)              439352.35
3761648.92        5.96873  (16092601)
        439402.35   3761648.92        6.16673  (15031321)              439452.35
3761648.92        6.37980  (15031321)
        439502.35   3761648.92        6.59655  (15031321)              439552.35
3761648.92        6.80767  (14051322)
        439152.35   3761698.92        5.52987  (14051419)              439202.35
3761698.92        5.68101  (14051419)
        439252.35   3761698.92        5.83317  (14051419)              439302.35
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2OFFSIT ***
INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 ,
L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 ,
L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 ,
L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	6.59210	(16092601)	439502.35	3761698.92	6.82587	(16092601)
439552.35	3761698.92	7.07996	(15031321)	439152.35	3761748.92	5.60185	(14051419)
439202.35	3761748.92	5.79573	(14051419)	439252.35	3761748.92	5.97973	(14051419)
439302.35	3761748.92	6.20134	(14051419)	439352.35	3761748.92	6.42227	(14051419)
439402.35	3761748.92	6.65198	(14051419)	439452.35	3761748.92	6.86876	(14051419)
439502.35	3761748.92	7.07950	(14051419)	439552.35	3761748.92	7.34361	(16092601)
439152.35	3761798.92	5.69460	(15030621)	439202.35	3761798.92	5.89087	(15030621)
439252.35	3761798.92	6.08202	(15030621)	439302.35	3761798.92	6.30372	(15030621)
439352.35	3761798.92	6.51664	(14051419)	439402.35	3761798.92	6.79144	(14051419)
439452.35	3761798.92	7.10097	(14051419)	439502.35			

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3761798.92        7.37323  (14051419)
        439552.35   3761798.92        7.72106  (14051419)                439152.35
3761848.92        5.74233  (13012017)
        439202.35   3761848.92        5.93750  (15030621)                439252.35
3761848.92        6.15485  (15030621)
        439302.35   3761848.92        6.40588  (15030621)                439352.35
3761848.92        6.65014  (15030621)
        439402.35   3761848.92        6.95651  (15030621)                439452.35
3761848.92        7.25458  (15030621)
        439502.35   3761848.92        7.53304  (15030621)                439552.35
3761848.92        7.89891  (15030621)
        439152.35   3761898.92        5.98929  (15100918)                439202.35
3761898.92        6.18704  (15100918)
        439252.35   3761898.92        6.38705  (15100918)                439302.35
3761898.92        6.63068  (15100918)
        439352.35   3761898.92        6.86583  (15100918)                439402.35
3761898.92        7.11725  (15100918)
        439452.35   3761898.92        7.42232  (13012017)                439502.35
3761898.92        7.75258  (13012017)
        439552.35   3761898.92        8.11087  (15030621)                439152.35
3761948.92        6.16229  (15100918)
        439202.35   3761948.92        6.38647  (15100918)                439252.35
3761948.92        6.61802  (15100918)
        439302.35   3761948.92        6.90691  (15100918)                439352.35
3761948.92        7.19888  (15100918)
        439402.35   3761948.92        7.49930  (15100918)                439452.35
3761948.92        7.86116  (15100918)
        439502.35   3761948.92        8.23943  (15100918)                439552.35
3761948.92        8.64540  (15100918)
        439152.35   3761998.92        6.17489  (15100918)                439202.35
3761998.92        6.40683  (15100918)
        439252.35   3761998.92        6.65317  (15100918)                439302.35
3761998.92        6.96374  (15100918)
        439352.35   3761998.92        7.29013  (15100918)                439402.35
3761998.92        7.61473  (15100918)
        439452.35   3761998.92        7.99545  (15100918)                439502.35
3761998.92        8.41276  (15100918)
        439552.35   3761998.92        8.87987  (15100918)                439152.35
3762048.92        6.21272  (14020117)
        439202.35   3762048.92        6.46176  (14020117)                439252.35
3762048.92        6.72910  (14020117)
        439302.35   3762048.92        7.02072  (14020117)                439352.35
3762048.92        7.33691  (14020117)
        439402.35   3762048.92        7.67566  (14020117)                439452.35
3762048.92        8.05979  (14020117)
        439502.35   3762048.92        8.48099  (14020117)                439552.35
3762048.92        8.94612  (14020117)
        439616.61   3761420.65        5.88641  (13101522)                439666.61
3761420.65        6.01991  (14043002)
        439716.61   3761420.65        6.18249  (14042901)                439766.61
3761420.65        6.35310  (12110417)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2OFFSIT ***
INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 , L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 , L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 , L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	6.67789	(16101918)	439766.61	3761520.65	6.85709	(13101522)
439816.61	3761520.65	6.98936	(14043002)	439866.61	3761520.65	7.36281	(12110417)
439616.61	3761570.65	6.60331	(16101918)	439666.61	3761570.65	6.84630	(16101918)
439716.61	3761570.65	7.06523	(16101918)	439766.61	3761570.65	7.25410	(16101918)
439816.61	3761570.65	7.39161	(13101522)	439866.61	3761570.65	7.56150	(13101522)
440451.14	3762893.83	45.82113	(14051806)	440501.14	3762893.83	34.77577	(14051806)

```
        440551.14   3762893.83       27.94095  (14051806)               440601.14
3762893.83       23.36003  (12120208)
        440651.14   3762893.83       20.06147  (12120208)               440701.14
3762893.83       17.56672  (12120208)
        440751.14   3762893.83       15.61373  (12120208)               440801.14
3762893.83       14.05768  (15082521)
        440851.14   3762893.83       12.77992  (15082521)               440451.14
3762943.83       40.25764  (13041207)
        440501.14   3762943.83       28.69338  (14071506)               440551.14
3762943.83       24.32365  (16051606)
        440601.14   3762943.83       21.17187  (16051606)               440651.14
3762943.83       18.57949  (16051606)
        440701.14   3762943.83       16.48179  (12102517)               440751.14
3762943.83       14.85762  (12102517)
        440801.14   3762943.83       13.49949  (12102517)               440851.14
3762943.83       12.34269  (12102517)
        441116.67   3763135.31        7.84948  (15080524)               441166.67
3763135.31        7.47998  (13082921)
        441116.67   3763185.31        7.86320  (13082622)               441166.67
3763185.31        7.45952  (13082921)
        441116.67   3763235.31        7.87283  (13082622)               441166.67
3763235.31        7.44893  (13082622)
        441116.67   3763285.31        7.95181  (13082622)               441166.67
3763285.31        7.49318  (13082622)
        441116.67   3763335.31        7.93659  (13082622)               441166.67
3763335.31        7.56219  (13082622)
        441116.67   3763385.31        7.87209  (13082622)               441166.67
3763385.31        7.50930  (13082622)
        441116.67   3763435.31        7.90172  (13082622)               441166.67
3763435.31        7.54556  (13082622)
        440433.43   3762815.13       72.79740  (12122516)               440483.43
3762815.13       50.05779  (12122516)
        440533.43   3762815.13       34.02048  (12122516)               440583.43
3762815.13       26.76618  (16062406)
        440633.43   3762815.13       22.60856  (16062406)               440683.43
3762815.13       19.51314  (16012617)
        440733.43   3762815.13       17.15688  (15091022)               440783.43
3762815.13       15.25886  (15091022)
        440833.43   3762815.13       13.72269  (14062606)               440883.43
3762815.13       12.47033  (14062606)
        440933.43   3762815.13       11.40201  (14062606)               440983.43
3762815.13       10.53882  (16102919)
        440433.43   3762865.13       59.66513  (12040618)               440483.43
3762865.13       40.62985  (15082823)
        440533.43   3762865.13       31.42908  (15082823)               440583.43
3762865.13       25.65965  (15082823)
        440633.43   3762865.13       21.67791  (15082823)               440683.43
3762865.13       18.73947  (15082823)
        440733.43   3762865.13       16.53661  (15082521)               440783.43
3762865.13       14.80369  (15082521)
        440833.43   3762865.13       13.39874  (15082521)               440883.43
```

3762865.13   12.23629 (15082521)
        440933.43   3762865.13   11.25825 (15082521)   440983.43
3762865.13   10.42854 (15082521)
        441118.27   3762686.02   9.10054 (13090520)   441168.27
3762686.02   8.58859 (16062406)
        441118.27   3762736.02   9.04260 (16062406)   441168.27
3762736.02   8.50473 (15091022)
        441118.27   3762786.02   8.85394 (14062606)   441168.27
3762786.02   8.30273 (14062606)
        441118.27   3762836.02   8.71885 (12051806)   441168.27
3762836.02   8.20206 (12051806)
        440411.67   3762093.41   133.12086 (12100607)   440461.67
3762093.41   116.95374 (13041207)
        440511.67   3762093.41   128.15640 (13041207)   440561.67
3762093.41   131.37687 (13041207)
        440611.67   3762093.41   132.71643 (13041207)   440411.67
3762143.41   100.01683 (12100607)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2OFFSIT ***
                                  INCLUDING SOURCE(S):   L0012702   , L0012703
, L0012704   , L0012705   , L0012706   ,
                  L0012707   , L0012708   , L0012709   , L0012710   , L0012711
, L0012712   , L0012713   , L0012714   ,
                  L0012715   , L0012716   , L0012717   , L0012718   , L0012719
, L0012720   , L0012721   , L0012722   ,
                  L0012723   , L0012724   , L0012725   , L0012726   , L0012727
, L0012728   , L0012729   , . . .   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440461.67   3762143.41   56.88445 (12100607)   440511.67
3762143.41   49.32438 (12100607)
        440561.67   3762143.41   46.47725 (12100607)   440611.67
3762143.41   44.94632 (12100607)
        440406.61   3762008.86   60.70276 (16061406)   440456.61

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3762008.86       60.07119  (12020717)
        440506.61   3762008.86       58.45500  (12012917)                440556.61
3762008.86       55.35380  (12012917)
        440606.61   3762008.86       52.34493  (12012917)                440656.61
3762008.86       50.27742  (12012917)
        440706.61   3762008.86       48.71623  (12012917)                440756.61
3762008.86       47.54035  (12012917)
        440806.61   3762008.86       46.11536  (12012917)                440856.61
3762008.86       45.43027  (12012917)
        440906.61   3762008.86       44.82961  (12012917)                440956.61
3762008.86       43.85551  (12012917)
        441006.61   3762008.86       42.95972  (12012917)                441056.61
3762008.86       41.87022  (12012917)
        441106.61   3762008.86       40.83103  (12012917)                441156.61
3762008.86       39.47494  (12051906)
        440406.61   3762058.86      117.20008  (12071707)                440456.61
3762058.86      133.07162  (12012917)
        440506.61   3762058.86      127.09849  (12100607)                440556.61
3762058.86      127.66629  (12122516)
        440606.61   3762058.86      129.61740  (12122516)                440656.61
3762058.86      130.80975  (12122516)
        440706.61   3762058.86      130.83562  (12122516)                440756.61
3762058.86      130.25895  (12122516)
        440806.61   3762058.86      127.64799  (12122516)                440856.61
3762058.86      128.52250  (12122516)
        440906.61   3762058.86      128.67457  (12122516)                440956.61
3762058.86      127.12710  (12122516)
        441006.61   3762058.86      125.55783  (12122516)                441056.61
3762058.86      125.38507  (12122516)
        441106.61   3762058.86      124.09717  (12122516)                441156.61
3762058.86      121.62374  (12122516)
        440191.38   3762138.44       31.28129  (15051306)                440241.38
3762138.44       37.91461  (15051306)
        440291.38   3762138.44       47.94542  (13122517)                440341.38
3762138.44       66.13039  (15062406)
        440191.38   3762188.44       30.24719  (13121117)                440241.38
3762188.44       36.48913  (15063019)
        440291.38   3762188.44       44.95318  (15020708)                440341.38
3762188.44       60.90588  (15120608)
        440191.38   3762238.44       29.99677  (15063019)                440241.38
3762238.44       34.18674  (15021220)
        440291.38   3762238.44       41.78963  (15120608)                440341.38
3762238.44       60.77617  (12100607)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

                                PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	2.56713	(12010913)	439943.36	3761716.33	8.11092	(12122413)
439170.17	3763092.51	1.32752	(15113013)	439220.17	3763092.51	1.37435	(15113013)
439270.17	3763092.51	1.40472	(15113013)	439320.17	3763092.51	1.40893	(15113013)
439370.17	3763092.51	1.38498	(15113013)	439420.17	3763092.51	1.33046	(15113013)
439470.17	3763092.51	1.24292	(15113013)	439520.17	3763092.51	1.12047	(15113013)
439570.17	3763092.51	0.99330	(14120813)	439620.17	3763092.51	0.98880	(14120813)
439670.17	3763092.51	0.97192	(14120813)	439720.17	3763092.51	0.94209	(14120813)
439770.17	3763092.51	1.35724	(14041413)	439820.17	3763092.51	1.86231	(14041413)
439870.17	3763092.51	2.38707	(14041413)	439170.17	3763142.51	1.20100	(15113013)
439220.17	3763142.51	1.21115	(15113013)	439270.17	3763142.51	1.20401	(15113013)
439320.17	3763142.51	1.17164	(15113013)	439370.17	3763142.51	1.11524	(15113013)
439420.17	3763142.51	1.03538	(15113013)	439470.17	3763142.51	0.92721	(15113013)
439520.17	3763142.51	0.87649	(14120813)	439570.17	3763142.51	0.86973	(14120813)
439620.17	3763142.51	0.85292	(14120813)	439670.17	3763142.51	0.82392	(14120813)
439720.17	3763142.51	1.03925	(14041413)	439770.17	3763142.51	1.43701	(14041413)
439820.17	3763142.51	1.87204	(14041413)	439870.17	3763142.51	2.28147	(14041413)
439170.17	3763192.51	1.05156	(15113013)	439220.17	3763192.51	1.03335	(15113013)
439270.17	3763192.51	0.99900	(15113013)	439320.17	3763192.51	0.94214	(15113013)
439370.17	3763192.51	0.86839	(15113013)	439420.17			

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3763192.51        0.78900  (14120813)
        439470.17   3763192.51        0.78434  (14120813)                439520.17
3763192.51        0.77379  (14120813)
        439570.17   3763192.51        0.75634  (14120813)                439620.17
3763192.51        0.73042  (14120813)
        439670.17   3763192.51        0.80736  (14041413)                439720.17
3763192.51        1.11818  (14041413)
        439770.17   3763192.51        1.47298  (14041413)                439820.17
3763192.51        1.83328  (14041413)
        439870.17   3763192.51        2.13824  (14041413)                439170.17
3763242.51        0.89357  (15113013)
        439220.17   3763242.51        0.85541  (15113013)                439270.17
3763242.51        0.80341  (15113013)
        439320.17   3763242.51        0.73599  (15113013)                439370.17
3763242.51        0.71588  (14120813)
        439420.17   3763242.51        0.70908  (14120813)                439470.17
3763242.51        0.69653  (14120813)
        439520.17   3763242.51        0.67833  (14120813)                439570.17
3763242.51        0.65356  (14120813)
        439620.17   3763242.51        0.63850  (14041413)                439670.17
3763242.51        0.88676  (14041413)
        439720.17   3763242.51        1.17433  (14041413)                439770.17
3763242.51        1.47996  (14041413)
        439820.17   3763242.51        1.76342  (14041413)                439870.17
3763242.51        1.97524  (14041413)
        439170.17   3763292.51        0.73795  (15113013)                439220.17
3763292.51        0.68601  (15113013)
        439270.17   3763292.51        0.66053  (14120813)                439320.17
3763292.51        0.65497  (14120813)
        439370.17   3763292.51        0.64640  (14120813)                439420.17
3763292.51        0.63271  (14120813)
        439470.17   3763292.51        0.61398  (14120813)                439520.17
3763292.51        0.58995  (14120813)
        439570.17   3763292.51        0.56114  (14120813)                439620.17
3763292.51        0.70846  (14041413)
        439670.17   3763292.51        0.94649  (14041413)                439720.17
3763292.51        1.20485  (14041413)
        439770.17   3763292.51        1.45775  (14041413)                439820.17
3763292.51        1.67279  (14041413)
        439870.17   3763292.51        1.80711  (14041413)                439170.17
3763342.51        0.61823  (14120813)
        439220.17   3763342.51        0.61272  (14120813)                439270.17
3763342.51        0.60518  (14120813)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

                                PAGE  80
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	0.59426	(14120813)	439370.17	3763342.51	0.58049	(14120813)
439420.17	3763342.51	0.56193	(14120813)	439470.17	3763342.51	0.53883	(14120813)
439520.17	3763342.51	0.51118	(14120813)	439570.17	3763342.51	0.57054	(14041413)
439620.17	3763342.51	0.76775	(14041413)	439670.17	3763342.51	0.98730	(14041413)
439720.17	3763342.51	1.21300	(14041413)	439770.17	3763342.51	1.41653	(14041413)
439820.17	3763342.51	1.57043	(14041413)	439870.17	3763342.51	1.64170	(14041413)
439170.17	3763392.51	0.57261	(14120813)	439220.17	3763392.51	0.56296	(14120813)
439270.17	3763392.51	0.55113	(14120813)	439320.17	3763392.51	0.53576	(14120813)
439370.17	3763392.51	0.51784	(14120813)	439420.17	3763392.51	0.49562	(14120813)
439470.17	3763392.51	0.46976	(14120813)	439520.17	3763392.51	0.46320	(14041413)
439570.17	3763392.51	0.62544	(14041413)	439620.17	3763392.51	0.81240	(14041413)
439670.17	3763392.51	1.00965	(14041413)	439720.17	3763392.51	1.20145	(14041413)
439770.17	3763392.51	1.35962	(14041413)	439820.17	3763392.51	1.46121	(14041413)
439870.17	3763392.51	1.48321	(14041413)	439170.17	3763442.51	0.52789	(14120813)
439220.17	3763442.51	0.51466	(14120813)	439270.17	3763442.51	0.49916	(14120813)
439320.17	3763442.51	0.48103	(14120813)	439370.17	3763442.51	0.46002	(14120813)
439420.17	3763442.51	0.43579	(14120813)	439470.17	3763442.51	0.40847	(14120813)
439520.17	3763442.51	0.51346	(14041413)	439570.17	3763442.51	0.67037	(14041413)
439620.17	3763442.51	0.84294	(14041413)	439670.17			

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3763442.51        1.01626  (14041413)
        439720.17   3763442.51        1.17263  (14041413)                439770.17
3763442.51        1.28967  (14041413)
        439820.17   3763442.51        1.34829  (14041413)                439870.17
3763442.51        1.33369  (14041413)
        439203.20   3762911.16        1.67364  (14010613)                439253.20
3762911.16        1.75686  (14010613)
        439303.20   3762911.16        1.90170  (15113013)                439353.20
3762911.16        2.10913  (15113013)
        439403.20   3762911.16        2.30493  (15113013)                439453.20
3762911.16        2.47934  (15113013)
        439503.20   3762911.16        2.61928  (15113013)                439553.20
3762911.16        2.69992  (15113013)
        439203.20   3762961.16        1.54993  (15113013)                439253.20
3762961.16        1.70612  (15113013)
        439303.20   3762961.16        1.85676  (15113013)                439353.20
3762961.16        1.99692  (15113013)
        439403.20   3762961.16        2.11417  (15113013)                439453.20
3762961.16        2.19341  (15113013)
        439503.20   3762961.16        2.22781  (15113013)                439553.20
3762961.16        2.19753  (15113013)
        439203.20   3763011.16        1.52321  (15113013)                439253.20
3763011.16        1.63410  (15113013)
        439303.20   3763011.16        1.72996  (15113013)                439353.20
3763011.16        1.80256  (15113013)
        439403.20   3763011.16        1.84947  (15113013)                439453.20
3763011.16        1.84962  (15113013)
        439503.20   3763011.16        1.80506  (15113013)                439553.20
3763011.16        1.70131  (15113013)
        439203.20   3763061.16        1.43822  (15113013)                439253.20
3763061.16        1.50129  (15113013)
        439303.20   3763061.16        1.54409  (15113013)                439353.20
3763061.16        1.55904  (15113013)
        439403.20   3763061.16        1.54263  (15113013)                439453.20
3763061.16        1.48899  (15113013)
        439503.20   3763061.16        1.39563  (15113013)                439553.20
3763061.16        1.25888  (15113013)
        439196.01   3762392.48        2.13476  (14120113)                439246.01
3762392.48        2.35009  (14120113)
        439296.01   3762392.48        2.60086  (14120113)                439346.01
3762392.48        2.89564  (14120113)
        439396.01   3762392.48        3.24644  (14120113)                439446.01
3762392.48        3.66853  (14120113)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	4.18010	(14120113)	439546.01	3762392.48	4.81118	(14120113)
439196.01	3762442.48	1.83377	(14120113)	439246.01	3762442.48	2.01295	(14120113)
439296.01	3762442.48	2.22022	(14120113)	439346.01	3762442.48	2.46300	(14120113)
439396.01	3762442.48	2.74956	(14120113)	439446.01	3762442.48	3.09175	(14120113)
439496.01	3762442.48	3.50810	(14120113)	439546.01	3762442.48	4.02066	(14120113)
439196.01	3762492.48	1.85570	(16122613)	439246.01	3762492.48	2.04602	(16122613)
439296.01	3762492.48	2.26376	(16122613)	439346.01	3762492.48	2.51411	(16122613)
439396.01	3762492.48	2.81845	(12020613)	439446.01	3762492.48	3.29159	(12020613)
439496.01	3762492.48	3.87290	(12020613)	439546.01	3762492.48	4.59679	(12020613)
439196.01	3762542.48	2.08389	(12020613)	439246.01	3762542.48	2.36080	(12020613)
439296.01	3762542.48	2.68459	(12020613)	439346.01	3762542.48	3.06653	(12020613)
439396.01	3762542.48	3.51738	(12020613)	439446.01	3762542.48	4.05525	(12020613)
439496.01	3762542.48	4.69671	(12020613)	439546.01	3762542.48	5.47344	(12020613)
439196.01	3762592.48	2.47401	(12020613)	439246.01	3762592.48	2.76883	(12020613)
439296.01	3762592.48	3.10777	(12020613)	439346.01	3762592.48	3.49594	(12020613)
439396.01	3762592.48	3.94143	(12020613)	439446.01	3762592.48	4.45213	(12020613)
439496.01	3762592.48	5.03519	(12020613)	439546.01	3762592.48	5.70608	(12020613)
439196.01	3762642.48	2.70858	(12020613)	439246.01	3762642.48	2.98310	(12020613)
439296.01	3762642.48	3.28887	(12020613)	439346.01			

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3762642.48        3.62468  (12020613)
        439396.01   3762642.48        3.98978  (12020613)                439446.01
3762642.48        4.38428  (12020613)
        439496.01   3762642.48        4.80395  (12020613)                439546.01
3762642.48        5.24801  (12020613)
        439196.01   3762692.48        2.74493  (12020613)                439246.01
3762692.48        2.96301  (12020613)
        439296.01   3762692.48        3.19003  (12020613)                439346.01
3762692.48        3.42502  (12020613)
        439396.01   3762692.48        3.66375  (12020613)                439446.01
3762692.48        3.89494  (12020613)
        439496.01   3762692.48        4.10852  (12020613)                439546.01
3762692.48        4.29512  (12020613)
        439196.01   3762742.48        2.58313  (12020613)                439246.01
3762742.48        2.72165  (12020613)
        439296.01   3762742.48        2.85318  (12020613)                439346.01
3762742.48        2.97196  (12020613)
        439396.01   3762742.48        3.07103  (12020613)                439446.01
3762742.48        3.14118  (12020613)
        439496.01   3762742.48        3.21481  (14010613)                439546.01
3762742.48        3.62135  (16010413)
        439196.01   3762792.48        2.26290  (12020613)                439246.01
3762792.48        2.32307  (12020613)
        439296.01   3762792.48        2.36012  (12020613)                439346.01
3762792.48        2.37386  (12020613)
        439396.01   3762792.48        2.54173  (14010613)                439446.01
3762792.48        2.78420  (16010413)
        439496.01   3762792.48        3.08003  (16010413)                439546.01
3762792.48        3.41381  (15113013)
        439196.01   3762842.48        1.85018  (12020613)                439246.01
3762842.48        1.89053  (14010613)
        439296.01   3762842.48        2.05612  (14010613)                439346.01
3762842.48        2.20936  (14010613)
        439396.01   3762842.48        2.40553  (16010413)                439446.01
3762842.48        2.63812  (15113013)
        439496.01   3762842.48        2.94160  (15113013)                439546.01
3762842.48        3.22860  (15113013)
        439573.31   3762470.54        4.50726  (12020613)                439623.31
3762470.54        5.46771  (12020613)
        439673.31   3762470.54        6.72645  (12020613)                439723.31
3762470.54        8.39805  (12020613)
        439773.31   3762470.54       10.63835  (12020613)                439823.31
3762470.54       13.67467  (12020613)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***         04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	17.85067	(12020613)	439573.31	3762520.54	5.65442	(12020613)
439623.31	3762520.54	6.73189	(12020613)	439673.31	3762520.54	8.08770	(12020613)
439723.31	3762520.54	9.80809	(12020613)	439773.31	3762520.54	11.98831	(12020613)
439823.31	3762520.54	14.74207	(12020613)	439873.31	3762520.54	18.15227	(12020613)
439573.31	3762570.54	6.14918	(12020613)	439623.31	3762570.54	7.09488	(12020613)
439673.31	3762570.54	8.20526	(12020613)	439723.31	3762570.54	9.50626	(12020613)
439773.31	3762570.54	10.99079	(12020613)	439823.31	3762570.54	12.60798	(12020613)
439873.31	3762570.54	14.21580	(12020613)	439573.31	3762620.54	5.84842	(12020613)
439623.31	3762620.54	6.46670	(12020613)	439673.31	3762620.54	7.11194	(12020613)
439723.31	3762620.54	7.75452	(12020613)	439773.31	3762620.54	8.33506	(12020613)
439823.31	3762620.54	9.28496	(16010413)	439873.31	3762620.54	11.02562	(15113013)
439573.31	3762670.54	4.90840	(12020613)	439623.31	3762670.54	5.15278	(12020613)
439673.31	3762670.54	5.36010	(16010413)	439723.31	3762670.54	6.23529	(16010413)
439773.31	3762670.54	7.17281	(15113013)	439823.31	3762670.54	8.42721	(15113013)
439873.31	3762670.54	9.54799	(15113013)	439152.35	3761448.92	1.83601	(12121713)
439202.35	3761448.92	1.86088	(12121713)	439252.35	3761448.92	1.87704	(12121713)
439302.35	3761448.92	1.88088	(12121713)	439352.35	3761448.92	1.87158	(12121713)
439402.35	3761448.92	1.84622	(12121713)	439452.35	3761448.92	1.80510	(12121713)
439502.35	3761448.92	1.74753	(12121713)	439552.35			

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3761448.92        1.76902  (12122413)
        439152.35   3761498.92        1.86429  (12121713)                439202.35
3761498.92        1.90463  (12121713)
        439252.35   3761498.92        1.93662  (12121713)                439302.35
3761498.92        1.95610  (12121713)
        439352.35   3761498.92        1.96282  (12121713)                439402.35
3761498.92        1.95530  (12121713)
        439452.35   3761498.92        1.93035  (12121713)                439502.35
3761498.92        1.88879  (12121713)
        439552.35   3761498.92        1.82771  (12121713)                439152.35
3761548.92        1.87815  (12121713)
        439202.35   3761548.92        1.93290  (12121713)                439252.35
3761548.92        1.98068  (12121713)
        439302.35   3761548.92        2.01743  (12121713)                439352.35
3761548.92        2.04317  (12121713)
        439402.35   3761548.92        2.05574  (12121713)                439452.35
3761548.92        2.05234  (12121713)
        439502.35   3761548.92        2.02988  (12121713)                439552.35
3761548.92        1.98795  (12121713)
        439152.35   3761598.92        1.87528  (12121713)                439202.35
3761598.92        1.94475  (12121713)
        439252.35   3761598.92        2.00882  (12121713)                439302.35
3761598.92        2.06518  (12121713)
        439352.35   3761598.92        2.11095  (12121713)                439402.35
3761598.92        2.14637  (12121713)
        439452.35   3761598.92        2.16658  (12121713)                439502.35
3761598.92        2.16897  (12121713)
        439552.35   3761598.92        2.15068  (12121713)                439152.35
3761648.92        1.85355  (12121713)
        439202.35   3761648.92        1.93829  (12121713)                439252.35
3761648.92        2.01978  (12121713)
        439302.35   3761648.92        2.09550  (12121713)                439352.35
3761648.92        2.16364  (12121713)
        439402.35   3761648.92        2.22278  (12121713)                439452.35
3761648.92        2.26950  (12121713)
        439502.35   3761648.92        2.30059  (12121713)                439552.35
3761648.92        2.31257  (12121713)
        439152.35   3761698.92        1.81206  (12121713)                439202.35
3761698.92        1.91087  (12121713)
        439252.35   3761698.92        2.00844  (12121713)                439302.35
3761698.92        2.10433  (12121713)
        439352.35   3761698.92        2.19607  (12121713)                439402.35
3761698.92        2.28120  (12121713)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	2.35583	(12121713)	439502.35	3761698.92	2.41977	(12121713)
439552.35	3761698.92	2.46659	(12121713)	439152.35	3761748.92	1.74985	(12121713)
439202.35	3761748.92	1.86124	(12121713)	439252.35	3761748.92	1.97410	(12121713)
439302.35	3761748.92	2.08958	(12121713)	439352.35	3761748.92	2.20359	(12121713)
439402.35	3761748.92	2.31532	(12121713)	439452.35	3761748.92	2.42164	(12121713)
439502.35	3761748.92	2.51991	(12121713)	439552.35	3761748.92	2.60761	(12121713)
439152.35	3761798.92	1.66872	(12121713)	439202.35	3761798.92	1.78964	(12121713)
439252.35	3761798.92	1.91614	(12121713)	439302.35	3761798.92	2.04868	(12121713)
439352.35	3761798.92	2.18413	(12121713)	439402.35	3761798.92	2.32253	(12121713)
439452.35	3761798.92	2.46182	(12121713)	439502.35	3761798.92	2.59802	(12121713)
439552.35	3761798.92	2.72968	(12121713)	439152.35	3761848.92	1.56944	(12121713)
439202.35	3761848.92	1.69660	(12121713)	439252.35	3761848.92	1.83274	(12121713)
439302.35	3761848.92	1.97881	(12121713)	439352.35	3761848.92	2.13366	(12121713)
439402.35	3761848.92	2.29852	(12121713)	439452.35	3761848.92	2.46969	(12121713)
439502.35	3761848.92	2.64527	(12121713)	439552.35	3761848.92	2.82500	(12121713)
439152.35	3761898.92	1.45273	(12121713)	439202.35	3761898.92	1.58375	(12121713)
439252.35	3761898.92	1.72631	(12121713)	439302.35	3761898.92	1.88287	(12121713)
439352.35	3761898.92	2.05352	(12121713)	439402.35	3761898.92	2.23860	(12121713)
439452.35	3761898.92	2.43977	(12121713)	439502.35			

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3761898.92        2.65524  (12121713)
        439552.35   3761898.92        2.88281  (12121713)                439152.35
3761948.92        1.50255  (12010213)
        439202.35   3761948.92        1.52959  (12010213)                439252.35
3761948.92        1.59719  (12121713)
        439302.35   3761948.92        1.76036  (12121713)                439352.35
3761948.92        1.94131  (12121713)
        439402.35   3761948.92        2.17348  (14112413)                439452.35
3761948.92        2.46602  (14112413)
        439502.35   3761948.92        2.74892  (14112413)                439552.35
3761948.92        2.99691  (14112413)
        439152.35   3761998.92        1.57516  (12010213)                439202.35
3761998.92        1.61735  (12010213)
        439252.35   3761998.92        1.71693  (16012513)                439302.35
3761998.92        1.82462  (16012513)
        439352.35   3761998.92        1.92422  (16012513)                439402.35
3761998.92        2.03669  (13101413)
        439452.35   3761998.92        2.37456  (14112413)                439502.35
3761998.92        2.76575  (14112413)
        439552.35   3761998.92        3.16632  (14112413)                439152.35
3762048.92        1.78849  (14120113)
        439202.35   3762048.92        1.86215  (14120113)                439252.35
3762048.92        1.93601  (14120113)
        439302.35   3762048.92        2.00892  (14120113)                439352.35
3762048.92        2.15978  (16012513)
        439402.35   3762048.92        2.32731  (16012513)                439452.35
3762048.92        2.48626  (16012513)
        439502.35   3762048.92        2.64559  (13101413)                439552.35
3762048.92        3.06858  (14112413)
        439616.61   3761420.65        2.62781  (12122413)                439666.61
3761420.65        3.22547  (12122413)
        439716.61   3761420.65        3.75629  (12122413)                439766.61
3761420.65        4.13255  (12122413)
        439816.61   3761420.65        4.27371  (12122413)                439866.61
3761420.65        4.13144  (12122413)
        439616.61   3761470.65        2.46412  (12122413)                439666.61
3761470.65        3.14366  (12122413)
        439716.61   3761470.65        3.80278  (12122413)                439766.61
3761470.65        4.33877  (12122413)
        439816.61   3761470.65        4.64704  (12122413)                439866.61
3761470.65        4.64302  (12122413)
        439616.61   3761520.65        2.25033  (12122413)                439666.61
3761520.65        2.99448  (12122413)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***         04/03/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	3.77308	(12122413)	439766.61	3761520.65	4.48129	(12122413)
439816.61	3761520.65	4.98859	(12122413)	439866.61	3761520.65	5.17056	(12122413)
439616.61	3761570.65	1.99184	(12122413)	439666.61	3761570.65	2.77501	(12122413)
439716.61	3761570.65	3.65815	(12122413)	439766.61	3761570.65	4.53914	(12122413)
439816.61	3761570.65	5.27123	(12122413)	439866.61	3761570.65	5.69139	(12122413)
440451.14	3762893.83	9.85944	(12011613)	440501.14	3762893.83	10.20497	(12011613)
440551.14	3762893.83	9.27576	(12011613)	440601.14	3762893.83	7.53903	(12011613)
440651.14	3762893.83	6.68649	(12022713)	440701.14	3762893.83	5.62500	(13050613)
440751.14	3762893.83	5.66428	(13050613)	440801.14	3762893.83	5.28379	(13050613)
440851.14	3762893.83	4.63780	(13050613)	440451.14	3762943.83	7.63067	(12011613)
440501.14	3762943.83	8.33943	(12011613)	440551.14	3762943.83	8.08020	(12011613)
440601.14	3762943.83	7.02726	(12011613)	440651.14	3762943.83	6.05639	(12022713)
440701.14	3762943.83	5.41835	(12022713)	440751.14	3762943.83	4.68267	(13102813)
440801.14	3762943.83	4.70105	(13050613)	440851.14	3762943.83	4.42615	(13050613)
441116.67	3763135.31	2.22423	(12021313)	441166.67	3763135.31	2.03880	(12021313)
441116.67	3763185.31	2.14192	(13050613)	441166.67	3763185.31	1.98814	(12021313)
441116.67	3763235.31	1.99422	(13050613)	441166.67	3763235.31	1.90509	(13050613)
441116.67	3763285.31	1.87876	(13102813)	441166.67	3763285.31	1.77639	(13050613)
441116.67	3763335.31	1.78494	(13102813)	441166.67			

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3763335.31        1.69490  (13102813)
        441116.67   3763385.31        1.62838  (13102813)                441166.67
3763385.31        1.61998  (13102813)
        441116.67   3763435.31        1.49624  (12022713)                441166.67
3763435.31        1.48977  (13102813)
        440433.43   3762815.13       14.51159  (12011613)                440483.43
3762815.13       14.16405  (12011613)
        440533.43   3762815.13       11.88728  (12011613)                440583.43
3762815.13        9.30156  (12022713)
        440633.43   3762815.13        7.92043  (13050613)                440683.43
3762815.13        7.79919  (13050613)
        440733.43   3762815.13        7.01202  (13050613)                440783.43
3762815.13        5.87656  (13050613)
        440833.43   3762815.13        4.66799  (13050613)                440883.43
3762815.13        3.88285  (12032613)
        440933.43   3762815.13        3.23996  (14122213)                440983.43
3762815.13        2.97380  (12102213)
        440433.43   3762865.13       11.02517  (12011613)                440483.43
3762865.13       11.59162  (12011613)
        440533.43   3762865.13       10.56348  (12011613)                440583.43
3762865.13        8.53505  (12011613)
        440633.43   3762865.13        7.33105  (12022713)                440683.43
3762865.13        6.37136  (13050613)
        440733.43   3762865.13        6.29088  (13050613)                440783.43
3762865.13        5.74128  (13050613)
        440833.43   3762865.13        4.92511  (13050613)                440883.43
3762865.13        4.02608  (13050613)
        440933.43   3762865.13        3.31976  (12032613)                440983.43
3762865.13        2.82685  (12032613)
        441118.27   3762686.02        4.03462  (12042313)                441168.27
3762686.02        3.50398  (12042313)
        441118.27   3762736.02        4.08398  (12042313)                441168.27
3762736.02        3.70194  (12042313)
        441118.27   3762786.02        3.63519  (12042313)                441168.27
3762786.02        3.47403  (12042313)
        441118.27   3762836.02        2.88213  (12042313)                441168.27
3762836.02        2.91429  (12042313)
        440411.67   3762093.41       17.57255  (15122113)                440461.67
3762093.41       15.61974  (15122113)
        440511.67   3762093.41       14.38999  (12031213)                440561.67
3762093.41       12.80741  (12031213)
        440611.67   3762093.41       10.61469  (12031213)                440411.67
3762143.41       23.94682  (15122113)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

                                PAGE  85
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	20.97133	(12031213)	440511.67	3762143.41	18.46371	(12031213)
440561.67	3762143.41	14.87725	(12031213)	440611.67	3762143.41	11.31292	(12031213)
440406.61	3762008.86	10.94711	(12010913)	440456.61	3762008.86	10.77846	(15122113)
440506.61	3762008.86	9.84139	(15122113)	440556.61	3762008.86	8.78708	(12031213)
440606.61	3762008.86	8.27878	(12031213)	440656.61	3762008.86	7.33301	(12031213)
440706.61	3762008.86	6.21685	(12031213)	440756.61	3762008.86	5.11215	(12031213)
440806.61	3762008.86	4.25624	(14111013)	440856.61	3762008.86	3.86005	(14111013)
440906.61	3762008.86	3.73044	(12121013)	440956.61	3762008.86	3.62378	(12121013)
441006.61	3762008.86	3.46571	(12121013)	441056.61	3762008.86	3.27539	(12121013)
441106.61	3762008.86	3.06690	(12121013)	441156.61	3762008.86	2.85161	(12121013)
440406.61	3762058.86	14.16585	(15122113)	440456.61	3762058.86	13.63325	(15122113)
440506.61	3762058.86	11.80640	(12031213)	440556.61	3762058.86	11.24834	(12031213)
440606.61	3762058.86	9.89265	(12031213)	440656.61	3762058.86	8.20975	(12031213)
440706.61	3762058.86	6.54375	(12031213)	440756.61	3762058.86	5.28055	(14111013)
440806.61	3762058.86	4.89926	(12121013)	440856.61	3762058.86	4.71707	(12121013)
440906.61	3762058.86	4.45072	(12121013)	440956.61	3762058.86	4.14054	(12121013)
441006.61	3762058.86	3.81189	(12121013)	441056.61	3762058.86	3.48266	(12121013)
441106.61	3762058.86	3.16510	(12121013)	441156.61	3762058.86	2.86621	(12121013)
440191.38	3762138.44	47.64293	(12122413)	440241.38			

3762138.44   30.29084 (12122413)
        440291.38   3762138.44   28.29364 (15122813)   440341.38
3762138.44   26.05514 (12010913)
        440191.38   3762188.44   75.20923 (12122413)   440241.38
3762188.44   54.19729 (12122413)
        440291.38   3762188.44   45.04128 (15122813)   440341.38
3762188.44   39.46507 (12010913)
        440191.38   3762238.44   120.93907 (12122413)   440241.38
3762238.44   102.38574 (12122413)
        440291.38   3762238.44   83.14439 (15122813)   440341.38
3762238.44   64.09216 (15122813)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0012702   , L0012703
, L0012704   , L0012705   , L0012706   ,
                  L0012707   , L0012708   , L0012709   , L0012710   , L0012711
, L0012712   , L0012713   , L0012714   ,
                  L0012715   , L0012716   , L0012717   , L0012718   , L0012719
, L0012720   , L0012721   , L0012722   ,
                  L0012723   , L0012724   , L0012725   , L0012726   , L0012727
, L0012728   , L0012729   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440407.86   3761497.84   52.61215 (15122617)   439943.36
3761716.33   62.99880 (16092523)
        439170.17   3763092.51   42.92338 (15072001)   439220.17
3763092.51   46.20176 (15072001)
        439270.17   3763092.51   47.56375 (15010620)   439320.17
3763092.51   51.45566 (16102806)
        439370.17   3763092.51   54.55090 (15101220)   439420.17
3763092.51   55.91513 (15101220)
        439470.17   3763092.51   56.07971 (15120219)   439520.17
3763092.51   59.23103 (13101421)
        439570.17   3763092.51   62.74429 (15102306)   439620.17

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3763092.51       68.68363  (16040703)
        439670.17   3763092.51       76.67526  (15070104)                439720.17
3763092.51       82.90019  (14010617)
        439770.17   3763092.51       89.18923  (15090205)                439820.17
3763092.51       95.31234  (16102019)
        439870.17   3763092.51      101.62832  (14091524)                439170.17
3763142.51       43.52296  (15091002)
        439220.17   3763142.51       46.88657  (16102806)                439270.17
3763142.51       48.14965  (16102806)
        439320.17   3763142.51       52.77234  (15101220)                439370.17
3763142.51       54.53113  (15101220)
        439420.17   3763142.51       54.41044  (15120219)                439470.17
3763142.51       58.67138  (13101421)
        439520.17   3763142.51       62.60011  (15102306)                439570.17
3763142.51       64.35061  (16040703)
        439620.17   3763142.51       69.15739  (15070104)                439670.17
3763142.51       75.16788  (14010617)
        439720.17   3763142.51       80.62849  (15090205)                439770.17
3763142.51       85.08961  (16102019)
        439820.17   3763142.51       89.88393  (14091524)                439870.17
3763142.51       96.15418  (14091524)
        439170.17   3763192.51       44.77797  (16102806)                439220.17
3763192.51       47.43326  (15101220)
        439270.17   3763192.51       49.22502  (15101220)                439320.17
3763192.51       51.68005  (15101220)
        439370.17   3763192.51       52.41040  (13102523)                439420.17
3763192.51       54.47640  (13101421)
        439470.17   3763192.51       58.33318  (15102306)                439520.17
3763192.51       60.91874  (16040703)
        439570.17   3763192.51       64.46345  (15070104)                439620.17
3763192.51       67.33326  (14010617)
        439670.17   3763192.51       73.30038  (15090205)                439720.17
3763192.51       78.22668  (15090205)
        439770.17   3763192.51       82.20086  (16102019)                439820.17
3763192.51       88.51173  (14091524)
        439870.17   3763192.51       89.98143  (13012518)                439170.17
3763242.51       46.35207  (15101220)
        439220.17   3763242.51       48.42357  (15101220)                439270.17
3763242.51       48.79728  (15101220)
        439320.17   3763242.51       50.16593  (13102523)                439370.17
3763242.51       52.81429  (15082702)
        439420.17   3763242.51       55.22140  (15102306)                439470.17
3763242.51       58.05334  (16040703)
        439520.17   3763242.51       61.15549  (15070104)                439570.17
3763242.51       63.47837  (13111320)
        439620.17   3763242.51       66.26297  (15031521)                439670.17
3763242.51       70.84126  (15090205)
        439720.17   3763242.51       74.88952  (16102019)                439770.17
3763242.51       79.96042  (14091524)
        439820.17   3763242.51       84.16193  (14091524)                439870.17
3763242.51       86.23844  (15100921)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 ,
L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 ,
L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 ,
L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439170.17	3763292.51	47.12029	(15101220)	439220.17	3763292.51	48.73121	(15101220)
439270.17	3763292.51	50.14474	(13102523)	439320.17	3763292.51	52.24416	(15082702)
439370.17	3763292.51	52.68790	(15102306)	439420.17	3763292.51	55.45775	(16040703)
439470.17	3763292.51	58.51509	(15070104)	439520.17	3763292.51	61.45858	(13111320)
439570.17	3763292.51	62.41815	(13111320)	439620.17	3763292.51	66.13537	(15090205)
439670.17	3763292.51	68.28165	(15100522)	439720.17	3763292.51	72.30240	(12010219)
439770.17	3763292.51	78.56108	(14091524)	439820.17	3763292.51	79.47528	(13090904)
439870.17	3763292.51	84.12588	(15100921)	439170.17	3763342.51	45.79209	(12071302)
439220.17	3763342.51	48.46497	(16060303)	439270.17	3763342.51	49.96398	(15082702)
439320.17	3763342.51	50.89259	(15102306)	439370.17	3763342.51	51.76278	(16040703)
439420.17	3763342.51	54.44537	(15070104)	439470.17	3763342.51	57.18564	(13111320)

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        439520.17   3763342.51       60.01292  (13111320)              439570.17
3763342.51       62.20339  (15090205)
        439620.17   3763342.51       63.29865  (15100522)              439670.17
3763342.51       65.81287  (16102019)
        439720.17   3763342.51       70.77217  (14091524)              439770.17
3763342.51       74.69855  (13090904)
        439820.17   3763342.51       78.87721  (12091522)              439870.17
3763342.51       82.40567  (15100921)
        439170.17   3763392.51       46.28208  (16060303)              439220.17
3763392.51       48.92864  (15082702)
        439270.17   3763392.51       48.79305  (15082702)              439320.17
3763392.51       50.96127  (12081704)
        439370.17   3763392.51       52.36345  (15092402)              439420.17
3763392.51       55.00591  (15092402)
        439470.17   3763392.51       57.45728  (13111320)              439520.17
3763392.51       58.65484  (15090205)
        439570.17   3763392.51       60.26590  (15090205)              439620.17
3763392.51       61.23904  (15100522)
        439670.17   3763392.51       64.90051  (12010219)              439720.17
3763392.51       68.61105  (14091524)
        439770.17   3763392.51       71.07565  (16042203)              439820.17
3763392.51       76.87282  (15081402)
        439870.17   3763392.51       79.86860  (15070102)              439170.17
3763442.51       46.94010  (15082702)
        439220.17   3763442.51       48.35470  (12081704)              439270.17
3763442.51       48.35490  (12081704)
        439320.17   3763442.51       49.94334  (15092402)              439370.17
3763442.51       52.03652  (15092402)
        439420.17   3763442.51       53.75737  (13111320)              439470.17
3763442.51       55.70836  (16072323)
        439520.17   3763442.51       57.20149  (15090205)              439570.17
3763442.51       58.55726  (15031421)
        439620.17   3763442.51       60.34031  (12010219)              439670.17
3763442.51       63.88270  (14091524)
        439720.17   3763442.51       65.94192  (13090904)              439770.17
3763442.51       71.62289  (12091522)
        439820.17   3763442.51       74.36255  (15100921)              439870.17
3763442.51       76.77825  (15070102)
        439203.20   3762911.16       39.88358  (15090919)              439253.20
3762911.16       41.89828  (15090919)
        439303.20   3762911.16       43.50285  (15090919)              439353.20
3762911.16       45.03018  (15021103)
        439403.20   3762911.16       47.38559  (16122818)              439453.20
3762911.16       50.11388  (16122818)
        439503.20   3762911.16       53.89949  (15031221)              439553.20
3762911.16       57.79421  (15031221)
        439203.20   3762961.16       38.80127  (15090919)              439253.20
3762961.16       40.15172  (15021103)
        439303.20   3762961.16       42.64264  (16122818)              439353.20
3762961.16       44.43284  (16122818)
        439403.20   3762961.16       46.44721  (15031221)              439453.20
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3762961.16       50.34184  (15031221)
        439503.20   3762961.16       52.74925  (15031221)                439553.20
3762961.16       54.80059  (15031221)
        439203.20   3763011.16       39.75939  (15021103)                439253.20
3763011.16       43.17214  (15072001)
        439303.20   3763011.16       46.93751  (15072001)                439353.20
3763011.16       49.61047  (15031221)
        439403.20   3763011.16       46.99266  (15031221)                439453.20
3763011.16       49.99137  (15031221)
        439503.20   3763011.16       50.78478  (13101603)                439553.20
3763011.16       55.94003  (15120219)
        439203.20   3763061.16       43.12866  (15072001)                439253.20
3763061.16       47.91945  (15072001)
        439303.20   3763061.16       49.68954  (15010620)                439353.20
3763061.16       53.42685  (16102806)
        439403.20   3763061.16       55.11039  (15101220)                439453.20
3763061.16       56.26785  (14030901)
        439503.20   3763061.16       56.36699  (15120219)                439553.20
3763061.16       62.34667  (13101421)
        439196.01   3762392.48       41.56440  (16102417)                439246.01
3762392.48       44.11821  (16102417)
        439296.01   3762392.48       46.94741  (16102417)                439346.01
3762392.48       50.11717  (16102417)
        439396.01   3762392.48       53.67872  (16102417)                439446.01
3762392.48       57.66859  (16102417)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:31:51

                                   PAGE  88
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
                  L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                  L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                  L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
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        439496.01   3762692.48       59.24992  (15112017)                439546.01
3762692.48       64.63191  (15112017)
        439196.01   3762742.48       41.27984  (15063019)                439246.01
3762742.48       43.45141  (15063019)
        439296.01   3762742.48       45.63311  (15063019)                439346.01
3762742.48       47.70412  (15063019)
        439396.01   3762742.48       50.90295  (15112017)                439446.01
3762742.48       54.71862  (15112017)
        439496.01   3762742.48       58.63625  (15090919)                439546.01
3762742.48       63.71874  (15090919)
        439196.01   3762792.48       40.19145  (15063019)                439246.01
3762792.48       41.63392  (16122919)
        439296.01   3762792.48       44.76433  (15112017)                439346.01
3762792.48       47.61562  (15112017)
        439396.01   3762792.48       50.46738  (15090919)                439446.01
3762792.48       54.06042  (15090919)
        439496.01   3762792.48       58.03960  (15090919)                439546.01
3762792.48       60.84327  (15090919)
        439196.01   3762842.48       40.06659  (15112017)                439246.01
3762842.48       42.00351  (15112017)
        439296.01   3762842.48       44.32636  (15090919)                439346.01
3762842.48       47.23310  (15090919)
        439396.01   3762842.48       49.94567  (15090919)                439446.01
3762842.48       52.09833  (15090919)
        439496.01   3762842.48       54.91265  (15021103)                439546.01
3762842.48       58.54379  (16122818)
        439573.31   3762470.54       70.54454  (15051306)                439623.31
3762470.54       77.38572  (15051306)
        439673.31   3762470.54       85.34694  (15051306)                439723.31
3762470.54       94.82114  (16022406)
        439773.31   3762470.54      107.04105  (13122517)                439823.31
3762470.54      122.28375  (13122517)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:31:51

                                    PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0012702    , L0012703
, L0012704    , L0012705    , L0012706    ,
                   L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                   L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                   L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	141.25375	(13122517)	439573.31	3762520.54	70.18808	(13122517)
439623.31	3762520.54	76.70220	(13122517)	439673.31	3762520.54	85.01369	(15031224)
439723.31	3762520.54	95.34779	(15031224)	439773.31	3762520.54	107.22457	(15031224)
439823.31	3762520.54	123.32970	(15063019)	439873.31	3762520.54	143.40546	(15063019)
439573.31	3762570.54	70.24844	(15031224)	439623.31	3762570.54	77.40398	(15063019)
439673.31	3762570.54	86.47863	(15063019)	439723.31	3762570.54	96.46651	(15063019)
439773.31	3762570.54	107.20779	(15063019)	439823.31	3762570.54	118.52204	(15112017)
439873.31	3762570.54	135.84608	(15112017)	439573.31	3762620.54	71.11276	(15063019)
439623.31	3762620.54	77.15576	(15063019)	439673.31	3762620.54	83.21113	(15063019)
439723.31	3762620.54	92.09065	(15112017)	439773.31	3762620.54	102.20467	(15090919)
439823.31	3762620.54	115.24278	(15090919)	439873.31	3762620.54	127.06978	(15090919)
439573.31	3762670.54	67.89060	(15112017)	439623.31	3762670.54	74.40811	(15112017)
439673.31	3762670.54	81.30187	(15090919)	439723.31	3762670.54	89.66763	(15090919)
439773.31	3762670.54	97.18173	(15090919)	439823.31	3762670.54	106.97022	(16122818)
439873.31	3762670.54	122.07710	(15031221)	439152.35	3761448.92	26.25342	(14042901)
439202.35	3761448.92	27.33512	(14042901)	439252.35	3761448.92	28.16365	(14042901)
439302.35	3761448.92	28.94453	(16020619)	439352.35	3761448.92	30.03822	(16021419)
439402.35	3761448.92	30.79230	(16021419)	439452.35	3761448.92	31.85129	(12010822)
439502.35	3761448.92	32.93589	(14110501)	439552.35	3761448.92	34.39376	(15031301)
439152.35	3761498.92	27.22577	(14043002)	439202.35	3761498.92	27.85607	(14042901)
439252.35	3761498.92	29.40272	(14042901)	439302.35			

3761498.92 30.24780 (14042901)
 439352.35 3761498.92 31.03409 (16020619) 439402.35
3761498.92 32.19201 (16021419)
 439452.35 3761498.92 32.92353 (16021419) 439502.35
3761498.92 34.31664 (12010822)
 439552.35 3761498.92 35.49165 (14110501) 439152.35
3761548.92 27.99794 (14043002)
 439202.35 3761548.92 29.02412 (14043002) 439252.35
3761548.92 29.73507 (14043002)
 439302.35 3761548.92 31.17796 (14042901) 439352.35
3761548.92 32.19378 (14042901)
 439402.35 3761548.92 33.20886 (16020619) 439452.35
3761548.92 34.54432 (16021419)
 439502.35 3761548.92 35.42645 (16021419) 439552.35
3761548.92 36.98880 (12010822)
 439152.35 3761598.92 28.86680 (13101522) 439202.35
3761598.92 29.80082 (13101522)
 439252.35 3761598.92 30.97799 (14043002) 439302.35
3761598.92 31.82733 (14043002)
 439352.35 3761598.92 33.24024 (14042901) 439402.35
3761598.92 34.70378 (14042901)
 439452.35 3761598.92 35.90688 (16020619) 439502.35
3761598.92 37.37679 (16021419)
 439552.35 3761598.92 38.56046 (12010822) 439152.35
3761648.92 29.39935 (16101918)
 439202.35 3761648.92 30.61069 (13101522) 439252.35
3761648.92 31.97412 (13101522)
 439302.35 3761648.92 33.22148 (14043002) 439352.35
3761648.92 34.29549 (14043002)
 439402.35 3761648.92 35.94403 (14042901) 439452.35
3761648.92 37.67120 (14042901)
 439502.35 3761648.92 39.07329 (16020619) 439552.35
3761648.92 40.96642 (16021419)
 439152.35 3761698.92 30.56982 (16101918) 439202.35
3761698.92 31.54967 (16101918)
 439252.35 3761698.92 32.45974 (13101522) 439302.35
3761698.92 34.23047 (13101522)
 439352.35 3761698.92 35.65896 (14043002) 439402.35
3761698.92 37.34812 (14043002)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 ,

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                L0012707    , L0012708    , L0012709    , L0012710    , L0012711
, L0012712    , L0012713    , L0012714    ,
                L0012715    , L0012716    , L0012717    , L0012718    , L0012719
, L0012720    , L0012721    , L0012722    ,
                L0012723    , L0012724    , L0012725    , L0012726    , L0012727
, L0012728    , L0012729    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439452.35   3761698.92       38.78227  (14042901)               439502.35
3761698.92       41.10258  (14042901)
        439552.35   3761698.92       42.79890  (16020619)               439152.35
3761748.92       30.80585  (16101918)
        439202.35   3761748.92       32.51089  (16101918)               439252.35
3761748.92       33.81085  (16101918)
        439302.35   3761748.92       34.96493  (16101918)               439352.35
3761748.92       36.79420  (13101522)
        439402.35   3761748.92       38.57379  (13101522)               439452.35
3761748.92       40.32354  (14043002)
        439502.35   3761748.92       41.93769  (14042901)               439552.35
3761748.92       44.84678  (14042901)
        439152.35   3761798.92       31.76866  (15071822)               439202.35
3761798.92       32.93954  (13100622)
        439252.35   3761798.92       34.56114  (16101918)               439302.35
3761798.92       36.62411  (16101918)
        439352.35   3761798.92       38.06116  (16101918)               439402.35
3761798.92       39.61037  (13101522)
        439452.35   3761798.92       42.09140  (13101522)               439502.35
3761798.92       43.89237  (14043002)
        439552.35   3761798.92       46.04395  (14042901)               439152.35
3761848.92       32.97803  (14051322)
        439202.35   3761848.92       34.30356  (14051322)               439252.35
3761848.92       35.43110  (13100622)
        439302.35   3761848.92       36.86670  (13100622)               439352.35
3761848.92       39.12571  (16101918)
        439402.35   3761848.92       41.58326  (16101918)               439452.35
3761848.92       43.28575  (16101918)
        439502.35   3761848.92       45.70312  (13101522)               439552.35
3761848.92       48.49338  (14043002)
        439152.35   3761898.92       33.44937  (15031321)               439202.35
3761898.92       35.17125  (14051322)
        439252.35   3761898.92       36.90038  (14051322)               439302.35
3761898.92       38.73273  (14051322)
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        439352.35   3761898.92       40.31342  (13100622)                439402.35
3761898.92       42.25568  (16101918)
        439452.35   3761898.92       45.59547  (16101918)                439502.35
3761898.92       48.17971  (16101918)
        439552.35   3761898.92       50.86742  (13101522)                439152.35
3761948.92       34.08349  (15031321)
        439202.35   3761948.92       35.89926  (15031321)                439252.35
3761948.92       37.51538  (15031321)
        439302.35   3761948.92       39.80382  (14051322)                439352.35
3761948.92       42.26010  (14051322)
        439402.35   3761948.92       44.27475  (14051322)                439452.35
3761948.92       46.73197  (13100622)
        439502.35   3761948.92       49.92965  (16101918)                439552.35
3761948.92       53.80670  (16101918)
        439152.35   3761998.92       34.97262  (15071824)                439202.35
3761998.92       36.64232  (16092601)
        439252.35   3761998.92       38.18996  (16092601)                439302.35
3761998.92       40.70358  (15031321)
        439352.35   3761998.92       43.24092  (15031321)                439402.35
3761998.92       45.64241  (14051322)
        439452.35   3761998.92       48.92416  (14051322)                439502.35
3761998.92       51.85412  (14051322)
        439552.35   3761998.92       54.99620  (13100622)                439152.35
3762048.92       36.19109  (14051419)
        439202.35   3762048.92       37.97321  (14051419)                439252.35
3762048.92       39.69397  (14051419)
        439302.35   3762048.92       41.85150  (16092601)                439352.35
3762048.92       44.28733  (16092601)
        439402.35   3762048.92       46.84974  (15031321)                439452.35
3762048.92       50.25542  (15031321)
        439502.35   3762048.92       53.65755  (14051322)                439552.35
3762048.92       58.11530  (14051322)
        439616.61   3761420.65       34.29247  (14112323)                439666.61
3761420.65       36.77980  (12110417)
        439716.61   3761420.65       38.54415  (12110417)                439766.61
3761420.65       39.29997  (13101517)
        439816.61   3761420.65       39.69948  (16092523)                439866.61
3761420.65       41.22136  (13101419)
        439616.61   3761470.65       36.34137  (13112508)                439666.61
3761470.65       37.38916  (12110417)
        439716.61   3761470.65       40.24152  (12110417)                439766.61
3761470.65       41.67548  (13101517)
        439816.61   3761470.65       41.92960  (16092523)                439866.61
3761470.65       43.36370  (14100421)
        439616.61   3761520.65       38.22455  (15031301)                439666.61
3761520.65       39.24070  (13112508)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***          04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***          21:31:51
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 , L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 , L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 , L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	41.50080	(12110417)	439766.61	3761520.65	44.12883	(12110417)
439816.61	3761520.65	45.14615	(13101517)	439866.61	3761520.65	45.85365	(14100421)
439616.61	3761570.65	39.78083	(15031301)	439666.61	3761570.65	41.63601	(15031301)
439716.61	3761570.65	42.60007	(14112323)	439766.61	3761570.65	46.31203	(12110417)
439816.61	3761570.65	48.38508	(13101517)	439866.61	3761570.65	48.91985	(16092523)
440451.14	3762893.83	155.14401	(16070206)	440501.14	3762893.83	138.30766	(16012217)
440551.14	3762893.83	123.01671	(12070506)	440601.14	3762893.83	113.78248	(14090206)
440651.14	3762893.83	107.04801	(15061306)	440701.14	3762893.83	100.58231	(16070606)
440751.14	3762893.83	91.81314	(15070406)	440801.14	3762893.83	83.52307	(15100419)
440851.14	3762893.83	72.69878	(13062920)	440451.14	3762943.83	144.69100	(16070206)
440501.14	3762943.83	131.73011	(16012217)	440551.14	3762943.83	118.06847	(14063005)
440601.14	3762943.83	112.86926	(15090821)	440651.14	3762943.83	103.19192	(15061306)
440701.14	3762943.83	96.56127	(13060506)	440751.14	3762943.83	87.39271	(14052906)
440801.14	3762943.83	84.51610	(15070406)	440851.14			

3762943.83 79.87856 (15031520)
  441116.67 3763135.31 57.65305 (12072301) 441166.67
3763135.31 54.38366 (15071801)
  441116.67 3763185.31 57.45079 (15072905) 441166.67
3763185.31 53.84333 (14080123)
  441116.67 3763235.31 56.68393 (16092821) 441166.67
3763235.31 53.31104 (15072905)
  441116.67 3763285.31 57.39644 (15062901) 441166.67
3763285.31 53.39566 (16092821)
  441116.67 3763335.31 56.44834 (15082423) 441166.67
3763335.31 54.02934 (15062901)
  441116.67 3763385.31 55.42590 (12081324) 441166.67
3763385.31 53.74885 (15082423)
  441116.67 3763435.31 54.75669 (13100303) 441166.67
3763435.31 52.60286 (13070101)
  440433.43 3762815.13 167.99959 (16012217) 440483.43
3762815.13 143.48643 (14062506)
  440533.43 3762815.13 124.21979 (16111017) 440583.43
3762815.13 115.58860 (15101120)
  440633.43 3762815.13 104.00291 (13072106) 440683.43
3762815.13 95.66124 (15070606)
  440733.43 3762815.13 88.44859 (13062920) 440783.43
3762815.13 79.58752 (15060920)
  440833.43 3762815.13 77.06339 (16061306) 440883.43
3762815.13 70.23890 (13012217)
  440933.43 3762815.13 62.95630 (13051321) 440983.43
3762815.13 58.17788 (15092020)
  440433.43 3762865.13 167.11760 (16070206) 440483.43
3762865.13 144.57616 (16012217)
  440533.43 3762865.13 125.82902 (12070506) 440583.43
3762865.13 114.96029 (16111017)
  440633.43 3762865.13 107.37052 (15101120) 440683.43
3762865.13 98.03681 (15070406)
  440733.43 3762865.13 92.13399 (15070606) 440783.43
3762865.13 82.57982 (13060306)
  440833.43 3762865.13 73.74948 (13062920) 440883.43
3762865.13 66.91466 (16061306)
  440933.43 3762865.13 60.24738 (16061306) 440983.43
3762865.13 56.09649 (13051321)
  441118.27 3762686.02 52.07109 (13090620) 441168.27
3762686.02 48.75877 (13090620)
  441118.27 3762736.02 50.87127 (15091021) 441168.27
3762736.02 47.52730 (16092820)
  441118.27 3762786.02 49.52349 (15062719) 441168.27
3762786.02 46.37764 (15091021)
  441118.27 3762836.02 48.33610 (15062719) 441168.27
3762836.02 45.74437 (15062719)
  440411.67 3762093.41 238.53384 (15012217) 440461.67
3762093.41 199.20547 (12012517)
  440511.67 3762093.41 175.94202 (16070906) 440561.67
3762093.41 154.66067 (12060606)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0012702 , L0012703 , L0012704 , L0012705 , L0012706 ,
L0012707 , L0012708 , L0012709 , L0012710 , L0012711 , L0012712 , L0012713 , L0012714 ,
L0012715 , L0012716 , L0012717 , L0012718 , L0012719 , L0012720 , L0012721 , L0012722 ,
L0012723 , L0012724 , L0012725 , L0012726 , L0012727 , L0012728 , L0012729 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	211.90280	(16070906)	440511.67	3762143.41	182.55797	(15091323)
440561.67	3762143.41	159.89715	(15070806)	440611.67	3762143.41	141.94311	(15080521)
440406.61	3762008.86	171.97675	(12020717)	440456.61	3762008.86	173.24208	(15012217)
440506.61	3762008.86	165.21028	(12012517)	440556.61	3762008.86	148.12383	(16021220)
440606.61	3762008.86	139.66031	(13012317)	440656.61	3762008.86	130.51102	(15081621)
440706.61	3762008.86	122.46143	(12012417)	440756.61	3762008.86	116.74501	(15070806)
440806.61	3762008.86	108.26742	(15080521)	440856.61	3762008.86	103.30813	(15081221)
440906.61	3762008.86	99.71426	(15091122)	440956.61	3762008.86	95.41513	(15091122)
441006.61	3762008.86	91.19227	(12081121)	441056.61	3762008.86	86.78405	(12081121)
441106.61	3762008.86	83.27385	(12080921)	441156.61	3762008.86	79.66969	(12080921)

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        440406.61   3762058.86      238.09391  (15091001)                440456.61
3762058.86      228.85531  (12012917)
        440506.61   3762058.86      223.39864  (12012917)                440556.61
3762058.86      203.80731  (12012917)
        440606.61   3762058.86      178.93146  (12060606)                440656.61
3762058.86      166.83944  (12060606)
        440706.61   3762058.86      162.37780  (14112208)                440756.61
3762058.86      156.37708  (14112208)
        440806.61   3762058.86      147.43079  (14060806)                440856.61
3762058.86      143.65472  (14060806)
        440906.61   3762058.86      139.49135  (15091222)                440956.61
3762058.86      140.40754  (12122516)
        441006.61   3762058.86      141.37743  (12122516)                441056.61
3762058.86      143.39582  (12122516)
        441106.61   3762058.86      143.84298  (12122516)                441156.61
3762058.86      142.59674  (12122516)
        440191.38   3762138.44      243.21112  (14050102)                440241.38
3762138.44      254.85970  (15060806)
        440291.38   3762138.44      256.10490  (16061406)                440341.38
3762138.44      243.80295  (12020717)
        440191.38   3762188.44      314.19921  (13101419)                440241.38
3762188.44      334.32027  (15060806)
        440291.38   3762188.44      335.68096  (16061922)                440341.38
3762188.44      308.49376  (14011422)
        440191.38   3762238.44      482.49861  (16020317)                440241.38
3762238.44      478.17616  (15060806)
        440291.38   3762238.44      475.58395  (15082821)                440341.38
3762238.44      415.51491  (12012917)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:31:51

                                   PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
             **


                       NETWORK
GROUP ID                      AVERAGE CONC               RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

P2ONSITE  1ST HIGHEST VALUE IS     33.06517 AT (  440291.38,  3762238.44,   213.76,
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  213.76,    0.00)  DC
         2ND HIGHEST VALUE IS      32.62897 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
         3RD HIGHEST VALUE IS      27.92428 AT (  440341.38,  3762238.44,   213.60,
  213.60,    0.00)  DC
         4TH HIGHEST VALUE IS      26.90355 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
         5TH HIGHEST VALUE IS      19.41626 AT (  440291.38,  3762188.44,   213.06,
  213.06,    0.00)  DC
         6TH HIGHEST VALUE IS      19.15800 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
         7TH HIGHEST VALUE IS      17.59690 AT (  440341.38,  3762188.44,   213.12,
  213.12,    0.00)  DC
         8TH HIGHEST VALUE IS      17.30245 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
         9TH HIGHEST VALUE IS      12.97724 AT (  440291.38,  3762138.44,   212.00,
  212.00,    0.00)  DC
        10TH HIGHEST VALUE IS      12.93805 AT (  440241.38,  3762138.44,   211.71,
  211.71,    0.00)  DC

P2IDLE    1ST HIGHEST VALUE IS      26.10954 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
         2ND HIGHEST VALUE IS      25.81470 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC
         3RD HIGHEST VALUE IS      22.91794 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
         4TH HIGHEST VALUE IS      21.85662 AT (  440341.38,  3762238.44,   213.60,
  213.60,    0.00)  DC
         5TH HIGHEST VALUE IS      16.24069 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
         6TH HIGHEST VALUE IS      16.16158 AT (  440291.38,  3762188.44,   213.06,
  213.06,    0.00)  DC
         7TH HIGHEST VALUE IS      15.14603 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
         8TH HIGHEST VALUE IS      14.57909 AT (  440341.38,  3762188.44,   213.12,
  213.12,    0.00)  DC
         9TH HIGHEST VALUE IS      11.32316 AT (  440241.38,  3762138.44,   211.71,
  211.71,    0.00)  DC
        10TH HIGHEST VALUE IS      11.20436 AT (  440291.38,  3762138.44,   212.00,
  212.00,    0.00)  DC

P2OFFSIT  1ST HIGHEST VALUE IS      46.66589 AT (  440411.67,  3762093.41,   211.84,
  211.84,    0.00)  DC
         2ND HIGHEST VALUE IS      45.52896 AT (  440706.61,  3762058.86,   211.80,
  211.80,    0.00)  DC
         3RD HIGHEST VALUE IS      45.51913 AT (  440756.61,  3762058.86,   211.97,
  211.97,    0.00)  DC
         4TH HIGHEST VALUE IS      45.41047 AT (  440606.61,  3762058.86,   211.25,
  211.25,    0.00)  DC
         5TH HIGHEST VALUE IS      45.32907 AT (  440656.61,  3762058.86,   211.40,
  211.40,    0.00)  DC
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         6TH HIGHEST VALUE IS      45.30614 AT (  440556.61,  3762058.86,   211.31,
  211.31,    0.00)  DC
         7TH HIGHEST VALUE IS      44.90561 AT (  440506.61,  3762058.86,   211.29,
  211.29,    0.00)  DC
         8TH HIGHEST VALUE IS      44.63521 AT (  440906.61,  3762058.86,   211.80,
  211.80,    0.00)  DC
         9TH HIGHEST VALUE IS      44.52731 AT (  440856.61,  3762058.86,   211.52,
  211.52,    0.00)  DC
        10TH HIGHEST VALUE IS      44.44862 AT (  440806.61,  3762058.86,   211.43,
  211.43,    0.00)  DC

P2GEN     1ST HIGHEST VALUE IS       0.03244 AT (  440341.38,  3762238.44,   213.60,
  213.60,    0.00)  DC
         2ND HIGHEST VALUE IS       0.03035 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC
         3RD HIGHEST VALUE IS       0.02728 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
         4TH HIGHEST VALUE IS       0.02261 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
         5TH HIGHEST VALUE IS       0.01482 AT (  440341.38,  3762188.44,   213.12,
  213.12,    0.00)  DC
         6TH HIGHEST VALUE IS       0.01438 AT (  440291.38,  3762188.44,   213.06,
  213.06,    0.00)  DC
         7TH HIGHEST VALUE IS       0.01421 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
         8TH HIGHEST VALUE IS       0.01311 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
         9TH HIGHEST VALUE IS       0.01007 AT (  440511.67,  3762143.41,   212.45,
  212.45,    0.00)  DC
        10TH HIGHEST VALUE IS       0.00992 AT (  440561.67,  3762143.41,   212.23,
  212.23,    0.00)  DC
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:31:51

                                   PAGE  94
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
HRS) RESULTS ***


                                     ** CONC OF PM_10    IN MICROGRAMS/M**3
               **


                      NETWORK
GROUP ID                    AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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- - - - - - - - - - - - - - - - - - -

ALL       1ST HIGHEST VALUE IS      69.72303 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC
          2ND HIGHEST VALUE IS      69.31678 AT (  440341.38,  3762238.44,   213.60,
  213.60,    0.00)  DC
          3RD HIGHEST VALUE IS      66.24869 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
          4TH HIGHEST VALUE IS      62.05593 AT (  440411.67,  3762093.41,   211.84,
  211.84,    0.00)  DC
          5TH HIGHEST VALUE IS      58.53471 AT (  440411.67,  3762143.41,   212.66,
  212.66,    0.00)  DC
          6TH HIGHEST VALUE IS      55.98501 AT (  440461.67,  3762093.41,   211.67,
  211.67,    0.00)  DC
          7TH HIGHEST VALUE IS      55.87454 AT (  440506.61,  3762058.86,   211.29,
  211.29,    0.00)  DC
          8TH HIGHEST VALUE IS      55.60036 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          9TH HIGHEST VALUE IS      55.47160 AT (  440456.61,  3762058.86,   211.24,
  211.24,    0.00)  DC
         10TH HIGHEST VALUE IS      55.27516 AT (  440556.61,  3762058.86,   211.31,
  211.31,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***       04/03/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       21:31:51

                                 PAGE  95
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                *** THE SUMMARY OF HIGHEST  1-HR
RESULTS ***


                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
             **

                                                      DATE
                                       NETWORK
GROUP ID                          AVERAGE CONC     (YYMMDDHH)            RECEPTOR
(XR, YR, ZELEV, ZHILL, ZFLAG)    OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - -

P2ONSITE HIGH   1ST HIGH VALUE IS     242.22954  ON 16020317: AT (  440191.38,
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3762238.44,   213.17,   213.17,    0.00)  DC

P2IDLE   HIGH   1ST HIGH VALUE IS     229.49464  ON 14113016: AT (  440241.38,
3762238.44,   212.37,   212.37,    0.00)  DC

P2OFFSIT HIGH   1ST HIGH VALUE IS     133.12086  ON 12100607: AT (  440411.67,
3762093.41,   211.84,   211.84,    0.00)  DC

P2GEN    HIGH   1ST HIGH VALUE IS     120.93907  ON 12122413: AT (  440191.38,
3762238.44,   213.17,   213.17,    0.00)  DC

ALL      HIGH   1ST HIGH VALUE IS     482.49861  ON 16020317: AT (  440191.38,
3762238.44,   213.17,   213.17,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/03/23
 *** AERMET - VERSION  16216 ***   ***
                      ***        21:31:51

                                 PAGE  96
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

 *** Message Summary : AERMOD Model Execution ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of         1279 Informational Message(s)

 A Total of        43848 Hours Were Processed

 A Total of          917 Calm Hours Identified

 A Total of          362 Missing Hours Identified (  0.83 Percent)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186     623       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     623       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET
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************************************
*** AERMOD Finishes Successfully ***
************************************
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APPENDIX B3

GREENHOUSE GAS EMISSIONS MODEL DATA

Phase 1 Operations PM10

	Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)	Plume Width (m)	Segment Length (m)	Source Area (m2)	Unitized Emissions Rate (g/s)	
Group: P1ONRUN													
SLINE6	Onsite - Building 1	15	26	0.01532	272.1	0.17	6.79E-02	7.86E-07	12	272.1	3265.2	0.071417323	SLINE6
SLINE7	Onsite - Building 2	15	29	0.01532	296	0.18	8.17E-02	9.46E-07	12	296	3552	0.077690289	SLINE7
SLINE8	Onsite - Building 3	15	23	0.01532	398.1	0.25	8.72E-02	1.01E-06	12	398.1	4777.2	0.104488189	SLINE8
SLINE9	Onsite - Building 4	15	33	0.01532	161.2	0.10	5.04E-02	5.83E-07	12	161.2	1934.4	0.042309711	SLINE9
SLINE10	Onsite - Building 5	15	55	0.01532	586.5	0.36	3.07E-01	3.55E-06	12	586.5	7038	0.153937008	SLINE10
SLINE11	Onsite - Building 6	15	96	0.01532	243.9	0.15	2.23E-01	2.58E-06	12	243.9	2926.8	0.064015748	SLINE11
SLINE12	Onsite - Building 7	15	56	0.01532	220.5	0.14	1.18E-01	1.36E-06	12	220.5	2646	0.057874016	SLINE12
SLINE13	Onsite - Building 8	15	58	0.01532	123.8	0.08	6.84E-02	7.91E-07	12	123.8	1485.6	0.032493438	SLINE13
SLINE14	Onsite - Building 9	15	65	0.01532	220.4	0.14	1.36E-01	1.58E-06	12	220.4	2644.8	0.057847769	SLINE14
SLINE15	Onsite - Building 10	15	50	0.01532	218.9	0.14	1.04E-01	1.21E-06	12	218.9	2626.8	0.057454068	SLINE15
SLINE16	Onsite - Building 11	15	17	0.01532	226	0.14	3.66E-02	4.23E-07	12	226	2712	0.059317585	SLINE16
SLINE17	Onsite - Building 12	15	15	0.01532	195.9	0.12	2.80E-02	3.24E-07	12	195.9	2350.8	0.051417323	SLINE17
SLINE18	Onsite - Building 13	15	74	0.01532	173.8	0.11	1.22E-01	1.42E-06	12	173.8	2085.6	0.045616798	SLINE18
SLINE39	Onsite - PA4 - 5%	15	44	0.01532	472.9				12	472.9	5674.8	0.124120735	SLINE39
								1.66E-05			45720	1	
Group: P1OFFSITE													
SLINE19	Schaefer betwn Euclid & Sultana - 25%	45	221	0.01016	458.9	0.29	6.39E-01	7.40E-06	13	458.9	5965.7	0.070456918	SLINE19
SLINE20	Sultana btwn Schaefer & Edison - 20%	45	176	0.01016	792.3	0.49	8.83E-01	1.02E-05	12	792.3	9507.6	0.112287945	SLINE20
SLINE21	Edison btwn Euclid & Sultana - 15%	45	132	0.01016	474.9	0.30	3.97E-01	4.59E-06	12	474.9	5698.8	0.06730474	SLINE21
SLINE22	Edison e/o Sultana - 30%	45	265	0.01016	771.6	0.48	1.29E+00	1.49E-05	12	771.6	9259.2	0.109354258	SLINE22
SLINE23	Euclid n/o Schaefer - 50%	45	441	0.01016	595.1	0.37	1.66E+00	1.92E-05	27	595.1	16067.7	0.189764927	SLINE23
SLINE24	Euclid btwn Schaefer & Edison	45	309	0.01016	798	0.50	1.56E+00	1.80E-05	27	798	21546	0.254465488	SLINE24
SLINE25	Euclid s/o Edison - 20%	45	176	0.01016	615.8	0.38	6.86E-01	7.94E-06	27	615.8	16626.6	0.196365724	SLINE25
								8.23E-05	Total Area (m^2)		84671.6	1	

Group: P1	Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Idling Emission Rate (g/sec)	Forklift (PM_{10}) (g/sec)	Hostler (PM_{10}) (g/sec)	Total Emission Rate (g/sec)	AERMOD Unitized Emissions Rate (g/s)	
SLINE26	Building 1 Idle	Idle	13	0.001631213	0.25	5.35E-03	6.19E-08			6.19E-08	0.0439137	SLINE26
SLINE27	Building 2 Idle	Idle	15	0.001631213	0.25	5.91E-03	6.84E-08			6.84E-08	0.0485592	SLINE27
SLINE28	Building 3 Idle	Idle	12	0.001631213	0.25	4.69E-03	5.43E-08			5.43E-08	0.0385124	SLINE28
SLINE29	Building 4 Idle	Idle	16	0.001631213	0.25	6.69E-03	7.75E-08			7.75E-08	0.0549656	SLINE29
SLINE30	Building 5 Idle	Idle	28	0.001631213	0.25	1.12E-02	1.30E-07			1.30E-07	0.0920950	SLINE30
SLINE31	Building 6 Idle	Idle	48	0.001631213	0.25	1.96E-02	2.27E-07			2.27E-07	0.1609194	SLINE31
SLINE32	Building 7 Idle	Idle	28	0.001631213	0.25	1.14E-02	1.32E-07			1.32E-07	0.0937694	SLINE32
SLINE33	Building 8 Idle	Idle	29	0.001631213	0.25	1.18E-02	1.37E-07			1.37E-07	0.0971183	SLINE33
SLINE34	Building 9 Idle	Idle	33	0.001631213	0.25	1.33E-02	1.53E-07			1.53E-07	0.1088395	SLINE34
SLINE35	Building 10 Idle	Idle	25	0.001631213	0.25	1.02E-02	1.18E-07			1.18E-07	0.0837997	SLINE35
SLINE36	Building 11 Idle	Idle	9	0.001631213	0.25	3.47E-03	4.01E-08			4.01E-08	0.0284657	SLINE36
SLINE37	Building 12 Idle	Idle	8	0.001631213	0.25	3.06E-03	3.54E-08			3.54E-08	0.0251323	SLINE37
SLINE38	Building 13 Idle	Idle	37	0.001631213	0.25	1.51E-02	1.75E-07			1.75E-07	0.1239096	SLINE38
										1.41E-06	1.00E+00	

Unitized emission rates (1 g/s) were used for source groups in AERMOD.
Truck routes were composed of several street segments, thus the emission rate for each segment needed to sum to 1.0.
The emission rate for each segment was based on the area of the segment (segment length x segment width) divided by the total area of the route (sum of each segment's area).

Group: GE	Generators	# of Generators	Emission factor (tons/yr)	Emission factor (g/sec)	AERMOD Unitized Emissions Rate (g/s)
Area1	PA 1	7	0.043403	1.25E-03	0.5000
Area2	PA 2	6	0.037203	1.07E-03	0.4286
Area3	PA 3A	1	0.006200	1.78E-04	0.0714
				0.00250	1.0000

* variable emissions - 1 hour a week (asumed Monday 1pm)

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

	Project Mix	Idle (g/trip)	15 mph (g/mi)	45 mph (g/mi)	50 mph (g/mi)	55 mph (g/mi)	25 mph (g/mi)
HHDT	0.48	0.002072865	0.008463523	0.011683635	0.014933571	0.01913136	0.006295
LHDT2	0.22	0.001296389	0.032525194	0.012864866	0.011482486	0.010926727	0.025999
MHDT	0.29	0.001160756	0.013447241	0.00559777	0.006513224	0.007925989	0.006816
Weighted Rates	1.00	0.001631213	0.015322276	0.010163879	0.011690145	0.014004945	0.010868

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	PM10_IDLEX	
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Gasoline	3.869766832	177.2217014	77.42629477	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Diesel	14693.60242	1799109.244	221962.6286	0.031647093	465.0098061
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Electricity	109.5985203	11409.19414	1368.406052	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Natural Gas	2560.5176	164963.5875	14771.25816	0.011210497	28.70467597
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Gasoline	2823.949841	99825.11713	42072.64494	0	0
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Diesel	4888.887446	187525.0486	61496.05385	0.027595541	134.9114939
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Electricity	37.58571717	2461.549606	498.4225452	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Gasoline	1427.423114	76828.767	28559.88167	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Diesel	15347.54129	658670.5437	188328.1928	0.016417979	251.9756033
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Electricity	133.1585562	6928.399641	1697.434032	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Natural Gas	208.419151	9895.426472	1924.329451	0.019107774	3.98242606

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	PM10_RUNEX	
San Bernardino (SC)	2025	HHDT	Aggregate	15	Gasoline	0.118162883	0.007884431	0.000931647
San Bernardino (SC)	2025	HHDT	Aggregate	15	Diesel	759.0544009	0.009033766	6.857120092
San Bernardino (SC)	2025	HHDT	Aggregate	15	Electricity	5.068930343	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	15	Natural Gas	98.16259212	0.00449178	0.440924795
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Gasoline	122.1233391	0.001920008	0.234477745
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Diesel	147.9455374	0.058284493	8.622930625
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Electricity	2.25565699	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Gasoline	226.7136449	0.002925573	0.663267253
San Bernardino (SC)	2025	MHDT	Aggregate	15	Diesel	1998.933367	0.014926739	29.83755763
San Bernardino (SC)	2025	MHDT	Aggregate	15	Electricity	20.76597946	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Natural Gas	27.21506117	0.00268969	0.073200084
San Bernardino (SC)	2025	HHDT	Aggregate	45	Gasoline	11.74333549	0.002579401	0.030290771
San Bernardino (SC)	2025	HHDT	Aggregate	45	Diesel	85279.568	0.012955765	1104.862059
San Bernardino (SC)	2025	HHDT	Aggregate	45	Electricity	552.666234	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	45	Natural Gas	10078.39503	0.001570649	15.82962225
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Gasoline	8072.91279	0.000766451	6.187492893
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Diesel	12401.25183	0.02092055	259.4410083
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Electricity	173.4265238	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Gasoline	6637.641985	0.000776126	5.151644453
San Bernardino (SC)	2025	MHDT	Aggregate	45	Diesel	59373.88351	0.006265301	371.9952742
San Bernardino (SC)	2025	MHDT	Aggregate	45	Electricity	617.9940825	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Natural Gas	846.3436864	0.000670451	0.56743192
San Bernardino (SC)	2025	HHDT	Aggregate	50	Gasoline	10.91062341	0.002545999	0.027778441
San Bernardino (SC)	2025	HHDT	Aggregate	50	Diesel	76946.16855	0.01673425	1287.636408
San Bernardino (SC)	2025	HHDT	Aggregate	50	Electricity	510.0786397	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	50	Natural Gas	9815.345123	0.001607204	15.77526525
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Gasoline	6544.063868	0.000773933	5.064664436
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Diesel	9469.302452	0.019046883	180.3606935
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Electricity	135.1710724	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Gasoline	5225.043967	0.000749922	3.918376752
San Bernardino (SC)	2025	MHDT	Aggregate	50	Diesel	47929.23776	0.007291948	349.4974905
San Bernardino (SC)	2025	MHDT	Aggregate	50	Electricity	496.5711073	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Natural Gas	673.6276848	0.000611104	0.411656728
San Bernardino (SC)	2025	HHDT	Aggregate	55	Gasoline	11.31428545	0.002638565	0.029853475
San Bernardino (SC)	2025	HHDT	Aggregate	55	Diesel	81110.40296	0.021449294	1739.760917
San Bernardino (SC)	2025	HHDT	Aggregate	55	Electricity	536.7421379	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	55	Natural Gas	10229.92816	0.001775088	18.15902271
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Gasoline	5690.782566	0.000821568	4.675366903
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Diesel	7920.61072	0.018345198	145.3051743
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Electricity	114.6333779	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Gasoline	4746.274955	0.000764279	3.627479682
San Bernardino (SC)	2025	MHDT	Aggregate	55	Diesel	43669.60615	0.008889251	388.1900965
San Bernardino (SC)	2025	MHDT	Aggregate	55	Electricity	452.3652397	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Natural Gas	615.5515728	0.000634302	0.39044535
San Bernardino (SC)	2025	HHDT	Aggregate	25	Gasoline	2.473517863	0.004446662	0.010998897
San Bernardino (SC)	2025	HHDT	Aggregate	25	Diesel	21903.60147	0.006680618	146.3295862
San Bernardino (SC)	2025	HHDT	Aggregate	25	Electricity	136.5701971	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	25	Natural Gas	2167.847246	0.002800501	6.071058323
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Gasoline	2828.981097	0.001209778	3.422438251
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Diesel	4989.856493	0.040400759	201.5939915
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Electricity	66.74866867	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Gasoline	2809.850259	0.001518166	4.265819058
San Bernardino (SC)	2025	MHDT	Aggregate	25	Diesel	24478.92669	0.007569371	185.2900726
San Bernardino (SC)	2025	MHDT	Aggregate	25	Electricity	256.0057025	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Natural Gas	353.6880205	0.00171221	0.605588215

PHASE 2 OPERATIONAL PM10

	Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)	Plume Width (m)	Segment Length (m)	Source Area (m2)	Unitized Emissions Rate (g/s)	
Group: P2OnRoad													
SLINE19	Schaefer betwn Euclid & Sultana - 5%	45	44	0.01062	458.9	0.29	1.34E-01	1.55E-06	13	458.9	5965.7	0.241208936	SLINE19
SLINE20	Sultana btwn Schaefer & Edison - 20%	45	176	0.01062	792.3	0.49	9.23E-01	1.07E-05	12	792.3	9507.6	0.384417265	SLINE20
SLINE21	Edison btwn Euclid & Sultana - 0%	45	0	0.01062	474.9	0.30	0.00E+00	0.00E+00					
SLINE22	Edison e/o Sultana - 20%	45	176	0.01062	771.6	0.48	8.98E-01	1.04E-05	12	771.6	9259.2	0.3743738	SLINE22
SLINE23	Euclid n/o Schaefer - 0%	45	441	0.01062	595.1	0.37	1.73E+00	2.00E-05					
SLINE24	Euclid btwn Schaefer & Edison - 0%	45	0	0.01062	798	0.50	0.00E+00	0.00E+00					
SLINE25	Euclid s/o Edison - 0%	45	0	0.01062	615.8	0.38	0.00E+00	0.00E+00					
								4.27E-05	Total Area (m^2)		24732.5	1	
Group: P2Onsite													
SLINE40	Onsite - Driveway 15	15	99	0.01532	339.2	0.21	3.20E-01	3.70E-06					

Group: P2	Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Idling Emission Rate (g/sec)	Forklift (PM_{10}) (g/sec)	Hostler (PM_{10}) (g/sec)	Total Emission Rate (g/sec)	AERMOD Unitized Emissions Rate (g/s)	
SLINE41	PA 2	Idle	50	0.00175495	0.25	2.17E-02	2.51E-07			2.51E-07	1.00E+00	SLINE41

Unitized emission rates (1 g/s) were used for source groups in AERMOD.
Truck routes were composed of several street segments, thus the emission rate for each segment needed to sum to 1.0.
The emission rate for each segment was based on the area of the segment (segment length x segment width) divided by the total area of the route (sum of each segment's area).

	Generators	# of Generators	Emission factor (tons/yr)	Emission factor (g/sec)	AERMOD Unitized Emissions Rate (g/s)
AREA4	PA 2	1	0.006200	6.20E-03	1.0000

* variable emissions - 1 hour a week (asumed Monday 1pm)

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

	Project Mix	Idle (g/trip)	15 mph (g/mi)	45 mph (g/mi)	50 mph (g/mi)	55 mph (g/mi)	25 mph (g/mi)
HHDT	0.63	0.002072865	0.008463523	0.011683635	0.014933571	0.01913136	0.006295
LHDT2	0.17	0.001296389	0.032525194	0.012864866	0.011482486	0.010926727	0.025999
MHDT	0.21	0.001160756	0.013447241	0.00559777	0.006513224	0.007925989	0.006816
Weighted Rates	1.00	0.00175495	0.01350377	0.010622761	0.012618185	0.015448144	0.009687

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	PM10_IDLEX	
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Gasoline	3.869766832	177.2217014	77.42629477	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Diesel	14693.60242	1799109.244	221962.6286	0.031647093	465.0098061
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Electricity	109.5985203	11409.19414	1368.406052	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Natural Gas	2560.5176	164963.5875	14771.25816	0.011210497	28.70467597
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Gasoline	2823.949841	99825.11713	42072.64494	0	0
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Diesel	4888.887446	187525.0486	61496.05385	0.027595541	134.9114939
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Electricity	37.58571717	2461.549606	498.4225452	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Gasoline	1427.423114	76828.767	28559.88167	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Diesel	15347.54129	658670.5437	188328.1928	0.016417979	251.9756033
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Electricity	133.1585562	6928.399641	1697.434032	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Natural Gas	208.419151	9895.426472	1924.329451	0.019107774	3.98242606

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	PM10_RUNEX	
San Bernardino (SC)	2025	HHDT	Aggregate	15	Gasoline	0.118162883	0.007884431	0.000931647
San Bernardino (SC)	2025	HHDT	Aggregate	15	Diesel	759.0544009	0.009033766	6.857120092
San Bernardino (SC)	2025	HHDT	Aggregate	15	Electricity	5.068930343	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	15	Natural Gas	98.16259212	0.00449178	0.440924795
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Gasoline	122.1233391	0.001920008	0.234477745
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Diesel	147.9455374	0.058284493	8.622930625
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Electricity	2.25565699	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Gasoline	226.7136449	0.002925573	0.663267253
San Bernardino (SC)	2025	MHDT	Aggregate	15	Diesel	1998.933367	0.014926739	29.83755763
San Bernardino (SC)	2025	MHDT	Aggregate	15	Electricity	20.76597946	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Natural Gas	27.21506117	0.00268969	0.073200084
San Bernardino (SC)	2025	HHDT	Aggregate	45	Gasoline	11.74333549	0.002579401	0.030290771
San Bernardino (SC)	2025	HHDT	Aggregate	45	Diesel	85279.568	0.012955765	1104.862059
San Bernardino (SC)	2025	HHDT	Aggregate	45	Electricity	552.666234	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	45	Natural Gas	10078.39503	0.001570649	15.82962225
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Gasoline	8072.91279	0.000766451	6.187492893
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Diesel	12401.25183	0.02092055	259.4410083
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Electricity	173.4265238	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Gasoline	6637.641985	0.000776126	5.151644453
San Bernardino (SC)	2025	MHDT	Aggregate	45	Diesel	59373.88351	0.006265301	371.9952742
San Bernardino (SC)	2025	MHDT	Aggregate	45	Electricity	617.9940825	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Natural Gas	846.3436864	0.000670451	0.56743192
San Bernardino (SC)	2025	HHDT	Aggregate	50	Gasoline	10.91062341	0.002545999	0.027778441
San Bernardino (SC)	2025	HHDT	Aggregate	50	Diesel	76946.16855	0.01673425	1287.636408
San Bernardino (SC)	2025	HHDT	Aggregate	50	Electricity	510.0786397	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	50	Natural Gas	9815.345123	0.001607204	15.77526525
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Gasoline	6544.063868	0.000773933	5.064664436
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Diesel	9469.302452	0.019046883	180.3606935
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Electricity	135.1710724	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Gasoline	5225.043967	0.000749922	3.918376752
San Bernardino (SC)	2025	MHDT	Aggregate	50	Diesel	47929.23776	0.007291948	349.4974905
San Bernardino (SC)	2025	MHDT	Aggregate	50	Electricity	496.5711073	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Natural Gas	673.6276848	0.000611104	0.411656728
San Bernardino (SC)	2025	HHDT	Aggregate	55	Gasoline	11.31428545	0.002638565	0.029853475
San Bernardino (SC)	2025	HHDT	Aggregate	55	Diesel	81110.40296	0.021449294	1739.760917
San Bernardino (SC)	2025	HHDT	Aggregate	55	Electricity	536.7421379	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	55	Natural Gas	10229.92816	0.001775088	18.15902271
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Gasoline	5690.782566	0.000821568	4.675366903
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Diesel	7920.61072	0.018345198	145.3051743
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Electricity	114.6333779	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Gasoline	4746.274955	0.000764279	3.627479682
San Bernardino (SC)	2025	MHDT	Aggregate	55	Diesel	43669.60615	0.008889251	388.1900965
San Bernardino (SC)	2025	MHDT	Aggregate	55	Electricity	452.3652397	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Natural Gas	615.5515728	0.000634302	0.39044535
San Bernardino (SC)	2025	HHDT	Aggregate	25	Gasoline	2.473517863	0.004446662	0.010998897
San Bernardino (SC)	2025	HHDT	Aggregate	25	Diesel	21903.60147	0.006680618	146.3295862
San Bernardino (SC)	2025	HHDT	Aggregate	25	Electricity	136.5701971	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	25	Natural Gas	2167.847246	0.002800501	6.071058323
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Gasoline	2828.981097	0.001209778	3.422438251
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Diesel	4989.856493	0.040400759	201.5939915
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Electricity	66.74866867	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Gasoline	2809.850259	0.001518166	4.265819058
San Bernardino (SC)	2025	MHDT	Aggregate	25	Diesel	24478.92669	0.007569371	185.2900726
San Bernardino (SC)	2025	MHDT	Aggregate	25	Electricity	256.0057025	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Natural Gas	353.6880205	0.00171221	0.605588215

Emergency Backup Generator Emissions

	Fuel Type	Quantity	HP	LF	Hours/Year per Unit	Hours per Day	HP-hr per day	Total hp-hr per year
Standard Generator	Diesel	1	750	0.74	50	1	750	37,500

	PM_{10}
Emissions Rates (g/hp-hr)	0.15
Pounds/Day	0.25
Tons/Year	0.01
Metric tons/year	

Source: Emissions rates from CalEEMod Guide Appenix D, Table 12.1

PHASE 1 OPERATIONAL PM10 24 HR

Unmitigated Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s: Onsite Running	Onsite Idle	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3]: Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	3.61538	3.98984	0.08847		5.99E-05	5.62E-06	2.21E-04	0.00E+00	2.86E-04
2	1	439943.4	3761716.33	439943.36, 3761716.33	5.17459	5.85922	0.12171		8.57E-05	8.26E-06	3.04E-04	0.00E+00	3.98E-04
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	4.19261	4.16718	0.0637		6.94E-05	5.87E-06	1.59E-04	0.00E+00	2.34E-04
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	4.51813	4.46657	0.06851		7.48E-05	6.30E-06	1.71E-04	0.00E+00	2.52E-04
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	4.8099	4.7249	0.07455		7.97E-05	6.66E-06	1.86E-04	0.00E+00	2.72E-04
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	5.16066	5.01317	0.08136		8.55E-05	7.07E-06	2.03E-04	0.00E+00	2.96E-04
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	5.54085	5.3814	0.0884		9.18E-05	7.58E-06	2.21E-04	0.00E+00	3.20E-04
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	5.95579	5.77464	0.09549		9.87E-05	8.14E-06	2.38E-04	0.00E+00	3.45E-04
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	6.38411	6.16895	0.10222		1.06E-04	8.69E-06	2.55E-04	0.00E+00	3.70E-04
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	6.83889	6.64093	0.10793		1.13E-04	9.36E-06	2.70E-04	0.00E+00	3.92E-04
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	7.26198	7.17744	0.11189		1.20E-04	1.01E-05	2.79E-04	0.00E+00	4.10E-04
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	7.87546	7.7357	0.11295		1.30E-04	1.09E-05	2.82E-04	0.00E+00	4.23E-04
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	8.71005	8.26837	0.10996		1.44E-04	1.17E-05	2.75E-04	0.00E+00	4.31E-04
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	9.56676	8.67667	0.10241		1.58E-04	1.22E-05	2.56E-04	0.00E+00	4.26E-04
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	10.2782	8.84337	0.1229		1.70E-04	1.25E-05	3.07E-04	0.00E+00	4.90E-04
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	10.6485	8.83966	0.16169		1.76E-04	1.25E-05	4.04E-04	0.00E+00	5.93E-04
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	10.38999	9.45162	0.19753		1.72E-04	1.33E-05	4.93E-04	0.00E+00	6.79E-04
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	4.20394	4.13046	0.06159		6.96E-05	5.82E-06	1.54E-04	0.00E+00	2.29E-04
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	4.46385	4.34608	0.06662		7.39E-05	6.13E-06	1.66E-04	0.00E+00	2.46E-04
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	4.73804	4.62802	0.07183		7.85E-05	6.52E-06	1.79E-04	0.00E+00	2.64E-04
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	5.03728	4.99149	0.0768		8.34E-05	7.03E-06	1.92E-04	0.00E+00	2.82E-04
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	5.35555	5.33215	0.08152		8.87E-05	7.52E-06	2.04E-04	0.00E+00	3.00E-04
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	5.68514	5.67446	0.08567		9.42E-05	8.00E-06	2.14E-04	0.00E+00	3.16E-04
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	5.99932	6.03877	0.08859		9.94E-05	8.51E-06	2.21E-04	0.00E+00	3.29E-04
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	6.43924	6.42856	0.08989		1.07E-04	9.06E-06	2.24E-04	0.00E+00	3.40E-04
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	7.00821	6.84774	0.08915		1.16E-04	9.65E-06	2.23E-04	0.00E+00	3.48E-04
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	7.63975	7.23444	0.08552		1.27E-04	1.02E-05	2.14E-04	0.00E+00	3.50E-04
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	8.25947	7.49022	0.07846		1.37E-04	1.06E-05	1.96E-04	0.00E+00	3.43E-04
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	8.77564	7.57096	0.09209		1.45E-04	1.07E-05	2.30E-04	0.00E+00	3.86E-04
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	8.95734	7.45551	0.1211		1.48E-04	1.05E-05	3.02E-04	0.00E+00	4.61E-04
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	8.66496	8.05233	0.15066		1.44E-04	1.13E-05	3.76E-04	0.00E+00	5.31E-04
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	9.10483	8.38623	0.174		1.51E-04	1.18E-05	4.35E-04	0.00E+00	5.97E-04
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	4.13039	4.00664	0.05946		6.84E-05	5.65E-06	1.48E-04	0.00E+00	2.23E-04
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	4.36147	4.33661	0.06324		7.22E-05	6.11E-06	1.58E-04	0.00E+00	2.36E-04
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	4.58113	4.63999	0.06683		7.59E-05	6.54E-06	1.67E-04	0.00E+00	2.49E-04
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	4.83705	4.96159	0.06978		8.01E-05	6.99E-06	1.74E-04	0.00E+00	2.61E-04
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	5.13001	5.23079	0.07212		8.50E-05	7.37E-06	1.80E-04	0.00E+00	2.72E-04
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	5.45904	5.52524	0.0735		9.04E-05	7.79E-06	1.84E-04	0.00E+00	2.82E-04
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	5.87135	5.82468	0.0733		9.73E-05	8.21E-06	1.83E-04	0.00E+00	2.89E-04
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	6.31779	6.13212	0.07142		1.05E-04	8.64E-06	1.78E-04	0.00E+00	2.92E-04
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	6.79331	6.3996	0.06757		1.13E-04	9.02E-06	1.69E-04	0.00E+00	2.90E-04
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	7.24849	6.59057	0.06162		1.20E-04	9.29E-06	1.54E-04	0.00E+00	2.83E-04
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	7.61683	6.60332	0.0706		1.26E-04	9.31E-06	1.76E-04	0.00E+00	3.12E-04
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	7.7031	6.44153	0.09252		1.28E-04	9.08E-06	2.31E-04	0.00E+00	3.68E-04
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	7.43247	7.0105	0.11627		1.23E-04	9.88E-06	2.90E-04	0.00E+00	4.23E-04
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	7.80395	7.39844	0.13794		1.29E-04	1.04E-05	3.44E-04	0.00E+00	4.84E-04
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	8.26092	7.49523	0.15233		1.37E-04	1.06E-05	3.80E-04	0.00E+00	5.28E-04
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	4.01963	4.09622	0.05566		6.66E-05	5.77E-06	1.39E-04	0.00E+00	2.11E-04
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	4.23441	4.37449	0.05804		7.01E-05	6.17E-06	1.45E-04	0.00E+00	2.21E-04
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	4.48567	4.61409	0.05995		7.43E-05	6.50E-06	1.50E-04	0.00E+00	2.31E-04
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	4.76983	4.8756	0.06109		7.90E-05	6.87E-06	1.53E-04	0.00E+00	2.38E-04
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	5.06331	5.09591	0.06133		8.39E-05	7.18E-06	1.53E-04	0.00E+00	2.44E-04
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	5.3857	5.32777	0.06041		8.92E-05	7.51E-06	1.51E-04	0.00E+00	2.48E-04
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	5.78117	5.55963	0.05802		9.58E-05	7.84E-06	1.45E-04	0.00E+00	2.48E-04
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	6.14844	5.73318	0.05425		1.02E-04	8.08E-06	1.35E-04	0.00E+00	2.45E-04
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	6.46295	5.84294	0.04905		1.07E-04	8.24E-06	1.22E-04	0.00E+00	2.38E-04
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	6.67472	5.85067	0.05522		1.11E-04	8.25E-06	1.38E-04	0.00E+00	2.57E-04
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	6.72269	5.70509	0.07237		1.11E-04	8.04E-06	1.81E-04	0.00E+00	3.00E-04
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	6.4779	6.0905	0.09129		1.07E-04	8.58E-06	2.28E-04	0.00E+00	3.44E-04
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	6.77972	6.55638	0.10999		1.12E-04	9.24E-06	2.75E-04	0.00E+00	3.96E-04
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	7.39374	6.75046	0.12498		1.22E-04	9.51E-06	3.12E-04	0.00E+00	4.44E-04
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	7.6278	6.81691	0.13282		1.26E-04	9.61E-06	3.32E-04	0.00E+00	4.68E-04
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	4.04354	4.12484	0.05049		6.70E-05	5.81E-06	1.26E-04	0.00E+00	1.99E-04
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	4.33227	4.4048	0.0514		7.18E-05	6.21E-06	1.28E-04	0.00E+00	2.06E-04
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	4.59699	4.60046	0.05178		7.61E-05	6.48E-06	1.29E-04	0.00E+00	2.12E-04
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	4.84958	4.76741	0.0514		8.03E-05	6.72E-06	1.28E-04	0.00E+00	2.15E-04
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	5.06158	4.91579	0.05015		8.38E-05	6.93E-06	1.25E-04	0.00E+00	2.16E-04
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	5.40142	5.06236	0.04763		8.95E-05	7.13E-06	1.19E-04	0.00E+00	2.16E-04
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	5.68813	5.22729	0.04405		9.42E-05	7.37E-06	1.10E-04	0.00E+00	2.12E-04
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	5.92244	5.29473	0.03953		9.81E-05	7.46E-06	9.87E-05	0.00E+00	2.04E-04
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	5.9943	5.21236	0.04353		9.93E-05	7.35E-06	1.09E-04	0.00E+00	2.15E-04
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	5.96055	5.07996	0.05715		9.87E-05	7.16E-06	1.43E-04	0.00E+00	2.49E-04
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	5.72535	5.3059	0.07261		9.48E-05	7.48E-06	1.81E-04	0.00E+00	2.84E-04
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	5.9429	5.78626	0.08839		9.84E-05	8.16E-06	2.21E-04	0.00E+00	3.27E-04
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	6.60699	6.21431	0.10238		1.09E-04	8.76E-06	2.56E-04	0.00E+00	3.74E-04
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	6.86178	6.33103	0.11222		1.14E-04	8.92E-06	2.80E-04	0.00E+00	4.03E-04
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	6.81961	6.15866	0.11548		1.13E-04	8.68E-06	2.88E-04	0.00E+00	4.10E-04
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	4.07373	4.14244	0.04443		6.75E-05	5.84E-06	1.11E-04	0.00E+00	1.84E-04
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	4.3465	4.39147	0.04421		7.20E-05	6.19E-06	1.10E-04	0.00E+00	1.89E-04
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	4.5449	4.47669	0.04348		7.53E-05	6.31E-06	1.09E-04	0.00E+00	1.90E-04
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	4.77659	4.59025	0.04192		7.91E-05	6.47E-06	1.05E-04	0.00E+00	1.90E-04
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	4.96983	4.64863	0.03962		8.23E-05	6.55E-06	9.89E-05	0.00E+00	1.88E-04
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	5.19898	4.76934	0.03637		8.61E-05	6.72E-06	9.08E-05	0.00E+00	1.84E-04
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	5.38358	4.82795	0.03452		8.92E-05	6.80E-06	8.62E-05	0.00E+00	1.82E-04
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	5.48086	4.784	0.03473		9.08E-05	6.74E-06	8.67E-05	0.00E+00	1.84E-04
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	5.37441	4.58618	0.04568		8.90E-05	6.46E-06	1.14E-04	0.00E+00	2.10E-04
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	5.11858	4.69314	0.05832		8.48E-05	6.61E-06	1.46E-04	0.00E+00	2.37E-04
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	5.23314	5.10408	0.07167		8.67E-05	7.19E-06	1.79E-04	0.00E+00	2.73E-04
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	5.78459	5.4184	0.08439		9.58E-05	7.64E-06	2.11E-04	0.00E+00	3.14E-04
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	6.15669	5.76411	0.09442		1.02E-04	8.12E-06	2.36E-04	0.00E+00	3.46E-04
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	6.23542	5.71606	0.10017		1.03E-04	8.06E-06	2.50E-04	0.00E+00	3.61E-04
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	6.03207	5.45768	0.10008		9.99E-05	7.69E-06	2.50E-04	0.00E+00	3.58E-04
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	4.15533	4.12668	0.03797		6.88E-05	5.82E-06	9.48E-05	0.00E+00	1.69E-04
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	4.43405	4.35588	0.03689		7.34E-05	6.14E-06	9.21E-05	0.00E+00	1.72E-04
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	4.49398	4.37527	0.03535		7.44E-05	6.17E-06	8.83E-05	0.00E+00	1.69E-04
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	4.82994	4.4698	0.03302		8.00E-05	6.30E-06	8.25E-05	0.00E+00	1.69E-04
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	4.86847	4.50443	0.03091		8.06E-05	6.35E-06	7.72E-05	0.00E+00	1.64E-04
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	5.2172	4.52877	0.03052		8.64E-05	6.38E-06	7.62E-05	0.00E+00	1.69E-04
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	5.28877	4.63342	0.02989		8.76E-05	6.53E-06	7.46E-05	0.00E+00	1.69E-04
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	5.05166	4.24812	0.0369		8.37E-05	5.99E-06	9.21E-05	0.00E+00	1.82E-04
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	4.71153	4.22879	0.04722		7.80E-05	5.96E-06	1.18E-04	0.00E+00	2.02E-04
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	4.66805	4.555	0.05854		7.73E-05	6.42E-06	1.46E-04	0.00E+00	2.30E-04

PHASE 1 OPERATIONAL PM10 24 HR

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	5.17681	4.96009	0.06971		8.57E-05	6.99E-06	1.74E-04	0.00E+00	2.67E-04
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	5.46849	5.16629	0.07963		9.06E-05	7.28E-06	1.99E-04	0.00E+00	2.97E-04
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	5.65946	5.27662	0.08644		9.37E-05	7.44E-06	2.16E-04	0.00E+00	3.17E-04
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	5.58057	5.14146	0.08904		9.24E-05	7.25E-06	2.22E-04	0.00E+00	3.22E-04
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	5.27363	4.82626	0.0866		8.74E-05	6.80E-06	2.16E-04	0.00E+00	3.10E-04
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	4.19559	4.12895	0.03157		6.95E-05	5.82E-06	7.88E-05	0.00E+00	1.54E-04
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	4.42515	4.26783	0.02992		7.33E-05	6.02E-06	7.47E-05	0.00E+00	1.54E-04
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	4.57007	4.23146	0.02811		7.57E-05	5.96E-06	7.02E-05	0.00E+00	1.52E-04
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	4.72629	4.29694	0.02782		7.83E-05	6.06E-06	6.95E-05	0.00E+00	1.54E-04
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	4.83776	4.34526	0.02736		8.01E-05	6.12E-06	6.83E-05	0.00E+00	1.55E-04
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	4.83232	4.25365	0.0267		8.00E-05	6.00E-06	6.67E-05	0.00E+00	1.53E-04
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	4.75395	4.17397	0.03009		7.87E-05	5.88E-06	7.51E-05	0.00E+00	1.60E-04
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	4.41669	3.86603	0.0386		7.32E-05	5.45E-06	9.64E-05	0.00E+00	1.75E-04
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	4.32523	4.18533	0.04803		7.16E-05	5.90E-06	1.20E-04	0.00E+00	1.97E-04
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	4.64877	4.46666	0.05788		7.70E-05	6.30E-06	1.45E-04	0.00E+00	2.28E-04
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	4.94609	4.72918	0.06701		8.19E-05	6.67E-06	1.67E-04	0.00E+00	2.56E-04
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	5.12451	4.84602	0.07433		8.49E-05	6.83E-06	1.86E-04	0.00E+00	2.77E-04
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	5.14995	4.81244	0.07853		8.53E-05	6.78E-06	1.96E-04	0.00E+00	2.88E-04
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	4.96565	4.61088	0.07881		8.23E-05	6.50E-06	1.97E-04	0.00E+00	2.86E-04
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	4.60891	4.27006	0.07784		7.63E-05	6.02E-06	1.94E-04	0.00E+00	2.77E-04
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	5.18901	4.87279	0.09844		8.60E-05	6.87E-06	2.46E-04	0.00E+00	3.39E-04
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	5.55944	5.20162	0.10583		9.21E-05	7.33E-06	2.64E-04	0.00E+00	3.64E-04
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	5.97305	5.57681	0.11426		9.89E-05	7.86E-06	2.85E-04	0.00E+00	3.92E-04
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	6.44347	6.00782	0.12407		1.07E-04	8.47E-06	3.10E-04	0.00E+00	4.25E-04
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	6.96725	6.49464	0.13505		1.15E-04	9.15E-06	3.37E-04	0.00E+00	4.62E-04
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	7.56065	7.05657	0.14759		1.25E-04	9.95E-06	3.69E-04	0.00E+00	5.04E-04
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	8.23215	7.69393	0.16211		1.36E-04	1.08E-05	4.05E-04	0.00E+00	5.52E-04
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	8.99524	8.4122	0.17832		1.49E-04	1.19E-05	4.45E-04	0.00E+00	6.06E-04
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	5.02813	4.70276	0.09217		8.33E-05	6.63E-06	2.30E-04	0.00E+00	3.20E-04
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	5.35663	5.00143	0.09778		8.87E-05	7.05E-06	2.44E-04	0.00E+00	3.40E-04
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	5.71906	5.33407	0.10376		9.47E-05	7.52E-06	2.59E-04	0.00E+00	3.61E-04
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	6.12471	5.70455	0.11031		1.01E-04	8.04E-06	2.75E-04	0.00E+00	3.85E-04
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	6.5686	6.11178	0.11721		1.09E-04	8.61E-06	2.93E-04	0.00E+00	4.10E-04
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	7.04395	6.55342	0.12432		1.17E-04	9.24E-06	3.10E-04	0.00E+00	4.36E-04
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	7.56519	7.02069	0.13163		1.25E-04	9.89E-06	3.29E-04	0.00E+00	4.64E-04
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	8.10986	7.54486	0.14709		1.34E-04	1.06E-05	3.67E-04	0.00E+00	5.12E-04
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	4.77446	4.49969	0.08164		7.91E-05	6.34E-06	2.04E-04	0.00E+00	2.89E-04
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	5.05348	4.76385	0.08488		8.37E-05	6.71E-06	2.12E-04	0.00E+00	3.02E-04
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	5.35342	5.03087	0.08803		8.87E-05	7.09E-06	2.20E-04	0.00E+00	3.16E-04
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	5.66941	5.35826	0.09217		9.39E-05	7.55E-06	2.30E-04	0.00E+00	3.32E-04
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	6.01134	5.62818	0.10141		9.96E-05	7.93E-06	2.53E-04	0.00E+00	3.61E-04
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	6.45954	6.16426	0.11141		1.07E-04	8.69E-06	2.78E-04	0.00E+00	3.94E-04
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	7.09977	6.68525	0.12434		1.18E-04	9.42E-06	3.10E-04	0.00E+00	4.38E-04
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	7.81721	7.41614	0.13784		1.29E-04	1.05E-05	3.44E-04	0.00E+00	4.84E-04
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	4.45294	4.32999	0.06849		7.38E-05	6.10E-06	1.71E-04	0.00E+00	2.51E-04
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	4.70293	4.69851	0.0743		7.79E-05	6.62E-06	1.86E-04	0.00E+00	2.70E-04
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	5.07353	4.99716	0.08043		8.40E-05	7.04E-06	2.01E-04	0.00E+00	2.92E-04
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	5.45962	5.3278	0.08814		9.04E-05	7.51E-06	2.20E-04	0.00E+00	3.18E-04
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	5.89071	5.69226	0.09681		9.76E-05	8.02E-06	2.42E-04	0.00E+00	3.47E-04
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	6.36313	6.09203	0.10581		1.05E-04	8.59E-06	2.64E-04	0.00E+00	3.78E-04
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	6.90831	6.52056	0.11467		1.14E-04	9.19E-06	2.86E-04	0.00E+00	4.10E-04
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	7.46967	7.08542	0.12275		1.24E-04	9.99E-06	3.07E-04	0.00E+00	4.40E-04
155	UCART3	439196	3762392.48	439196.01, 3762392.48	4.34571	4.02231	0.10935		7.20E-05	5.67E-06	2.73E-04	0.00E+00	3.51E-04
156	UCART3	439246	3762392.48	439246.01, 3762392.48	4.84997	4.47193	0.11891		8.03E-05	6.30E-06	2.97E-04	0.00E+00	3.84E-04
157	UCART3	439296	3762392.48	439296.01, 3762392.48	5.42738	4.98083	0.12989		8.99E-05	7.02E-06	3.24E-04	0.00E+00	4.21E-04
158	UCART3	439346	3762392.48	439346.01, 3762392.48	6.09247	5.55787	0.14271		1.01E-04	7.83E-06	3.56E-04	0.00E+00	4.65E-04
159	UCART3	439396	3762392.48	439396.01, 3762392.48	6.85866	6.20853	0.15797		1.14E-04	8.75E-06	3.94E-04	0.00E+00	5.17E-04
160	UCART3	439446	3762392.48	439446.01, 3762392.48	7.73813	6.95501	0.17643		1.28E-04	9.80E-06	4.41E-04	0.00E+00	5.79E-04
161	UCART3	439496	3762392.48	439496.01, 3762392.48	8.78334	7.9139	0.1994		1.45E-04	1.12E-05	4.98E-04	0.00E+00	6.55E-04
162	UCART3	439546	3762392.48	439546.01, 3762392.48	10.09548	9.0519	0.2287		1.67E-04	1.28E-05	5.71E-04	0.00E+00	7.51E-04
163	UCART3	439196	3762442.48	439196.01, 3762442.48	4.34139	4.00662	0.11081		7.19E-05	5.65E-06	2.77E-04	0.00E+00	3.54E-04
164	UCART3	439246	3762442.48	439246.01, 3762442.48	4.65525	4.36041	0.12101		7.71E-05	6.15E-06	3.02E-04	0.00E+00	3.85E-04
165	UCART3	439296	3762442.48	439296.01, 3762442.48	5.06973	4.77149	0.13272		8.40E-05	6.72E-06	3.31E-04	0.00E+00	4.22E-04
166	UCART3	439346	3762442.48	439346.01, 3762442.48	5.71797	5.2522	0.14642		9.47E-05	7.40E-06	3.66E-04	0.00E+00	4.68E-04
167	UCART3	439396	3762442.48	439396.01, 3762442.48	6.47593	5.92638	0.16255		1.07E-04	8.35E-06	4.06E-04	0.00E+00	5.22E-04
168	UCART3	439446	3762442.48	439446.01, 3762442.48	7.36626	6.73698	0.18199		1.22E-04	9.50E-06	4.54E-04	0.00E+00	5.86E-04
169	UCART3	439496	3762442.48	439496.01, 3762442.48	8.44423	7.70881	0.20591		1.40E-04	1.09E-05	5.14E-04	0.00E+00	6.65E-04
170	UCART3	439546	3762442.48	439546.01, 3762442.48	9.80053	8.87693	0.23584		1.62E-04	1.25E-05	5.89E-04	0.00E+00	7.64E-04
171	UCART3	439196	3762492.48	439196.01, 3762492.48	4.33214	4.03951	0.10918		7.18E-05	5.69E-06	2.73E-04	0.00E+00	3.50E-04
172	UCART3	439246	3762492.48	439246.01, 3762492.48	4.65653	4.43751	0.11976		7.71E-05	6.25E-06	2.99E-04	0.00E+00	3.82E-04
173	UCART3	439296	3762492.48	439296.01, 3762492.48	5.11072	4.89843	0.13195		8.47E-05	6.90E-06	3.29E-04	0.00E+00	4.21E-04
174	UCART3	439346	3762492.48	439346.01, 3762492.48	5.64883	5.43116	0.14616		9.36E-05	7.65E-06	3.65E-04	0.00E+00	4.66E-04
175	UCART3	439396	3762492.48	439396.01, 3762492.48	6.28238	6.04764	0.16298		1.04E-04	8.52E-06	4.07E-04	0.00E+00	5.20E-04
176	UCART3	439446	3762492.48	439446.01, 3762492.48	7.0771	6.76875	0.1831		1.17E-04	9.54E-06	4.57E-04	0.00E+00	5.84E-04
177	UCART3	439496	3762492.48	439496.01, 3762492.48	8.11692	7.62549	0.20749		1.34E-04	1.07E-05	5.18E-04	0.00E+00	6.63E-04
178	UCART3	439546	3762492.48	439546.01, 3762492.48	9.41728	8.64145	0.23752		1.56E-04	1.22E-05	5.93E-04	0.00E+00	7.61E-04
179	UCART3	439196	3762542.48	439196.01, 3762542.48	4.29443	4.27532	0.10466		7.11E-05	6.03E-06	2.61E-04	0.00E+00	3.39E-04
180	UCART3	439246	3762542.48	439246.01, 3762542.48	4.74118	4.68467	0.11527		7.85E-05	6.60E-06	2.88E-04	0.00E+00	3.73E-04
181	UCART3	439296	3762542.48	439296.01, 3762542.48	5.26433	5.15587	0.12759		8.72E-05	7.27E-06	3.19E-04	0.00E+00	4.13E-04
182	UCART3	439346	3762542.48	439346.01, 3762542.48	5.87389	5.69561	0.14206		9.73E-05	8.03E-06	3.55E-04	0.00E+00	4.60E-04
183	UCART3	439396	3762542.48	439396.01, 3762542.48	6.59448	6.32221	0.1592		1.09E-04	8.91E-06	3.98E-04	0.00E+00	5.16E-04
184	UCART3	439446	3762542.48	439446.01, 3762542.48	7.44624	7.05046	0.17982		1.23E-04	9.94E-06	4.49E-04	0.00E+00	5.82E-04
185	UCART3	439496	3762542.48	439496.01, 3762542.48	8.47119	7.91259	0.20484		1.40E-04	1.12E-05	5.12E-04	0.00E+00	6.63E-04
186	UCART3	439546	3762542.48	439546.01, 3762542.48	9.69149	8.93007	0.23581		1.61E-04	1.26E-05	5.89E-04	0.00E+00	7.62E-04
187	UCART3	439196	3762592.48	439196.01, 3762592.48	4.52926	4.46828	0.09731		7.50E-05	6.30E-06	2.43E-04	0.00E+00	3.24E-04
188	UCART3	439246	3762592.48	439246.01, 3762592.48	4.98619	4.87995	0.10752		8.26E-05	6.88E-06	2.68E-04	0.00E+00	3.58E-04
189	UCART3	439296	3762592.48	439296.01, 3762592.48	5.50751	5.3446	0.11954		9.12E-05	7.53E-06	2.99E-04	0.00E+00	3.97E-04
190	UCART3	439346	3762592.48	439346.01, 3762592.48	6.10559	5.87248	0.13381		1.01E-04	8.28E-06	3.34E-04	0.00E+00	4.44E-04
191	UCART3	439396	3762592.48	439396.01, 3762592.48	6.7982	6.47865	0.15092		1.13E-04	9.13E-06	3.77E-04	0.00E+00	4.99E-04
192	UCART3	439446	3762592.48	439446.01, 3762592.48	7.60536	7.1817	0.1717		1.26E-04	1.01E-05	4.29E-04	0.00E+00	5.65E-04
193	UCART3	439496	3762592.48	439496.01, 3762592.48	8.55316	8.0075	0.19737		1.42E-04	1.13E-05	4.93E-04	0.00E+00	6.46E-04
194	UCART3	439546	3762592.48	439546.01, 3762592.48	9.64999	8.97071	0.22976		1.60E-04	1.26E-05	5.74E-04	0.00E+00	7.46E-04
195	UCART3	439196	3762642.48	439196.01, 3762642.48	4.71948	4.60747	0.08746		7.82E-05	6.49E-06	2.18E-04	0.00E+00	3.03E-04
196	UCART3	439246	3762642.48	439246.01, 3762642.48	5.16821	5.0091	0.09689		8.56E-05	7.06E-06	2.42E-04	0.00E+00	3.35E-04
197	UCART3	439296	3762642.48	439296.01, 3762642.48	5.66979	5.4567	0.10813		9.39E-05	7.69E-06	2.70E-04	0.00E+00	3.72E-04
198	UCART3	439346	3762642.48	439346.01, 3762642.48	6.23688	5.9619	0.1216		1.03E-04	8.40E-06	3.04E-04	0.00E+00	4.15E-04
199	UCART3	439396	3762642.48	439396.01, 3762642.48	6.88962	6.54331	0.13789		1.14E-04	9.22E-06	3.44E-04	0.00E+00	4.68E-04
200	UCART3	439446	3762642.48	439446.01, 3762642.48	7.63582	7.21091	0.15805		1.26E-04	1.02E-05	3.95E-04	0.00E+00	5.31E-04
201	UCART3	439496	3762642.48	439496.01, 3762642.48	8.49866	7.98695	0.18344		1.41E-04	1.13E-05	4.58E-04	0.00E+00	6.10E-04
202	UCART3	439546	3762642.48	439546.01, 3762642.48	9.48683	8.87922	0.21625		1.57E-04	1.25E-05	5.40E-04	0.00E+00	7.10E-04
203	UCART3	439196	3762692.48	439196.01, 3762692.48	4.87945	4.71478	0.08455		8.08E-05	6.65E-06	2.11E-04	0.00E+00	2.99E-04
204	UCART3	439246	3762692.48	439246.01, 3762692.48	5.31307	5.10669	0.09296		8.80E-05	7.20E-06	2.32E-04	0.00E+00	3.27E-04

PHASE 1 OPERATIONAL PM10 24 HR

Unmitigated			
Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
205	UCART3	439296	3762692.48	439296.01, 3762692.48	5.79928	5.54683	0.10241		9.61E-05	7.82E-06	2.56E-04	0.00E+00	3.60E-04
206	UCART3	439346	3762692.48	439346.01, 3762692.48	6.34305	6.04064	0.11327		1.05E-04	8.51E-06	2.83E-04	0.00E+00	3.96E-04
207	UCART3	439396	3762692.48	439396.01, 3762692.48	6.95093	6.59448	0.12579		1.15E-04	9.29E-06	3.14E-04	0.00E+00	4.39E-04
208	UCART3	439446	3762692.48	439446.01, 3762692.48	7.65001	7.23095	0.14021		1.27E-04	1.02E-05	3.50E-04	0.00E+00	4.87E-04
209	UCART3	439496	3762692.48	439496.01, 3762692.48	8.45888	7.96393	0.1617		1.40E-04	1.12E-05	4.04E-04	0.00E+00	5.55E-04
210	UCART3	439546	3762692.48	439546.01, 3762692.48	9.38901	8.80045	0.19238		1.56E-04	1.24E-05	4.80E-04	0.00E+00	6.48E-04
211	UCART3	439196	3762742.48	439196.01, 3762742.48	5.02043	4.81287	0.09082		8.32E-05	6.78E-06	2.27E-04	0.00E+00	3.17E-04
212	UCART3	439246	3762742.48	439246.01, 3762742.48	5.44059	5.19782	0.09941		9.01E-05	7.33E-06	2.48E-04	0.00E+00	3.46E-04
213	UCART3	439296	3762742.48	439296.01, 3762742.48	5.91202	5.62951	0.10899		9.79E-05	7.93E-06	2.72E-04	0.00E+00	3.78E-04
214	UCART3	439346	3762742.48	439346.01, 3762742.48	6.43815	6.1106	0.12015		1.07E-04	8.61E-06	3.00E-04	0.00E+00	4.15E-04
215	UCART3	439396	3762742.48	439396.01, 3762742.48	7.03285	6.65167	0.13318		1.16E-04	9.37E-06	3.33E-04	0.00E+00	4.58E-04
216	UCART3	439446	3762742.48	439446.01, 3762742.48	7.7127	7.2659	0.1487		1.28E-04	1.02E-05	3.71E-04	0.00E+00	5.09E-04
217	UCART3	439496	3762742.48	439496.01, 3762742.48	8.50735	7.98088	0.16729		1.41E-04	1.12E-05	4.18E-04	0.00E+00	5.70E-04
218	UCART3	439546	3762742.48	439546.01, 3762742.48	9.43189	8.81898	0.19113		1.56E-04	1.24E-05	4.77E-04	0.00E+00	6.46E-04
219	UCART3	439196	3762792.48	439196.01, 3762792.48	5.13462	4.89267	0.0958		8.51E-05	6.90E-06	2.39E-04	0.00E+00	3.31E-04
220	UCART3	439246	3762792.48	439246.01, 3762792.48	5.54397	5.26751	0.10464		9.18E-05	7.42E-06	2.61E-04	0.00E+00	3.61E-04
221	UCART3	439296	3762792.48	439296.01, 3762792.48	6.0063	5.68801	0.11446		9.95E-05	8.02E-06	2.86E-04	0.00E+00	3.93E-04
222	UCART3	439346	3762792.48	439346.01, 3762792.48	6.52525	6.15708	0.12599		1.08E-04	8.68E-06	3.15E-04	0.00E+00	4.31E-04
223	UCART3	439396	3762792.48	439396.01, 3762792.48	7.11475	6.68748	0.1398		1.18E-04	9.43E-06	3.49E-04	0.00E+00	4.76E-04
224	UCART3	439446	3762792.48	439446.01, 3762792.48	7.79084	7.29731	0.15674		1.29E-04	1.03E-05	3.91E-04	0.00E+00	5.31E-04
225	UCART3	439496	3762792.48	439496.01, 3762792.48	8.58858	8.02926	0.17748		1.42E-04	1.13E-05	4.43E-04	0.00E+00	5.97E-04
226	UCART3	439546	3762792.48	439546.01, 3762792.48	9.52549	8.91946	0.2042		1.58E-04	1.26E-05	5.10E-04	0.00E+00	6.80E-04
227	UCART3	439196	3762842.48	439196.01, 3762842.48	5.19317	4.92457	0.09874		8.60E-05	6.94E-06	2.47E-04	0.00E+00	3.40E-04
228	UCART3	439246	3762842.48	439246.01, 3762842.48	5.59406	5.2841	0.10747		9.27E-05	7.45E-06	2.68E-04	0.00E+00	3.68E-04
229	UCART3	439296	3762842.48	439296.01, 3762842.48	6.04098	5.68551	0.11734		1.00E-04	8.01E-06	2.93E-04	0.00E+00	4.01E-04
230	UCART3	439346	3762842.48	439346.01, 3762842.48	6.54564	6.13843	0.1289		1.08E-04	8.65E-06	3.22E-04	0.00E+00	4.39E-04
231	UCART3	439396	3762842.48	439396.01, 3762842.48	7.12219	6.66031	0.14259		1.18E-04	9.39E-06	3.56E-04	0.00E+00	4.83E-04
232	UCART3	439446	3762842.48	439446.01, 3762842.48	7.78579	7.27226	0.15929		1.29E-04	1.02E-05	3.98E-04	0.00E+00	5.37E-04
233	UCART3	439496	3762842.48	439496.01, 3762842.48	8.56149	8.01051	0.17963		1.42E-04	1.13E-05	4.49E-04	0.00E+00	6.02E-04
234	UCART3	439546	3762842.48	439546.01, 3762842.48	9.47623	8.89335	0.20514		1.57E-04	1.25E-05	5.12E-04	0.00E+00	6.82E-04
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	10.45368	9.45142	0.25672		1.73E-04	1.33E-05	6.41E-04	0.00E+00	8.28E-04
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	12.38273	11.04211	0.29814		2.05E-04	1.56E-05	7.44E-04	0.00E+00	9.65E-04
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	14.82738	12.94113	0.35023		2.46E-04	1.82E-05	8.75E-04	0.00E+00	1.14E-03
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	18.01242	15.18268	0.41833		2.98E-04	2.14E-05	1.04E-03	0.00E+00	1.36E-03
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	22.42644	17.83888	0.51453		3.71E-04	2.51E-05	1.28E-03	0.00E+00	1.68E-03
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	28.91525	21.02987	0.6687		4.79E-04	2.96E-05	1.67E-03	0.00E+00	2.18E-03
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	37.55192	26.14409	0.97224		6.22E-04	3.68E-05	2.43E-03	0.00E+00	3.09E-03
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	10.41076	9.4698	0.25639		1.72E-04	1.33E-05	6.40E-04	0.00E+00	8.26E-04
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	12.14438	10.84459	0.29724		2.01E-04	1.53E-05	7.42E-04	0.00E+00	9.59E-04
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	14.32593	12.68725	0.34598		2.37E-04	1.79E-05	8.64E-04	0.00E+00	1.12E-03
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	17.44306	15.09823	0.40467		2.89E-04	2.13E-05	1.01E-03	0.00E+00	1.32E-03
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	21.43451	17.99893	0.47652		3.55E-04	2.54E-05	1.19E-03	0.00E+00	1.57E-03
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	26.56363	21.5091	0.56627		4.40E-04	3.03E-05	1.41E-03	0.00E+00	1.88E-03
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	35.21136	26.69966	0.70717		5.83E-04	3.76E-05	1.77E-03	0.00E+00	2.39E-03
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	10.40852	9.59713	0.25352		1.72E-04	1.35E-05	6.33E-04	0.00E+00	8.19E-04
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	11.91134	10.91198	0.29708		1.97E-04	1.54E-05	7.42E-04	0.00E+00	9.55E-04
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	13.70126	12.50199	0.3501		2.27E-04	1.76E-05	8.74E-04	0.00E+00	1.12E-03
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	16.35908	14.85881	0.41498		2.71E-04	2.09E-05	1.04E-03	0.00E+00	1.33E-03
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	19.88112	18.06194	0.49566		3.29E-04	2.55E-05	1.24E-03	0.00E+00	1.59E-03
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	24.16614	22.09563	0.59799		4.00E-04	3.11E-05	1.49E-03	0.00E+00	1.92E-03
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	29.89444	27.40021	0.72826		4.95E-04	3.86E-05	1.82E-03	0.00E+00	2.35E-03
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	10.19028	9.4915	0.24503		1.69E-04	1.34E-05	6.12E-04	0.00E+00	7.94E-04
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	11.51154	10.67657	0.29266		1.91E-04	1.50E-05	7.31E-04	0.00E+00	9.37E-04
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	13.0847	12.06511	0.35395		2.17E-04	1.70E-05	8.84E-04	0.00E+00	1.12E-03
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	15.00788	14.07827	0.43475		2.49E-04	1.98E-05	1.09E-03	0.00E+00	1.35E-03
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	18.08884	17.3616	0.54737		3.00E-04	2.45E-05	1.37E-03	0.00E+00	1.69E-03
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	22.16966	21.55381	0.71503		3.67E-04	3.04E-05	1.79E-03	0.00E+00	2.18E-03
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	27.22299	26.9889	0.99951		4.51E-04	3.80E-05	2.50E-03	0.00E+00	2.98E-03
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	9.99743	9.34899	0.22576		1.66E-04	1.32E-05	5.64E-04	0.00E+00	7.43E-04
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	11.23409	10.4498	0.27387		1.86E-04	1.47E-05	6.84E-04	0.00E+00	8.85E-04
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	12.71712	11.78056	0.33952		2.11E-04	1.66E-05	8.48E-04	0.00E+00	1.08E-03
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	14.57007	13.52471	0.43084		2.41E-04	1.91E-05	1.08E-03	0.00E+00	1.34E-03
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	16.98438	15.97821	0.56421		2.81E-04	2.25E-05	1.41E-03	0.00E+00	1.71E-03
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	20.3978	20.40514	0.77365		3.38E-04	2.88E-05	1.93E-03	0.00E+00	2.30E-03
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	26.11576	27.176	1.13477		4.33E-04	3.83E-05	2.83E-03	0.00E+00	3.30E-03
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	2.76583	2.76911	0.06789		4.58E-05	3.90E-06	1.70E-04	0.00E+00	2.19E-04
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	2.78002	2.82916	0.06604		4.60E-05	3.99E-06	1.65E-04	0.00E+00	2.15E-04
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	2.77239	2.87404	0.06376		4.59E-05	4.05E-06	1.59E-04	0.00E+00	2.09E-04
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	2.73006	2.8896	0.061		4.52E-05	4.07E-06	1.52E-04	0.00E+00	2.02E-04
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	2.71295	2.87519	0.07421		4.49E-05	4.05E-06	1.85E-04	0.00E+00	2.34E-04
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	2.76189	2.82785	0.08988		4.57E-05	3.99E-06	2.24E-04	0.00E+00	2.74E-04
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	2.74045	2.81566	0.10529		4.54E-05	3.97E-06	2.63E-04	0.00E+00	3.12E-04
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	2.79047	2.81305	0.11888		4.62E-05	3.96E-06	2.97E-04	0.00E+00	3.47E-04
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	2.87972	2.91629	0.12896		4.77E-05	4.11E-06	3.22E-04	0.00E+00	3.74E-04
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	2.91846	2.88006	0.07167		4.83E-05	4.06E-06	1.79E-04	0.00E+00	2.31E-04
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	2.97821	2.98444	0.0703		4.93E-05	4.21E-06	1.76E-04	0.00E+00	2.29E-04
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	3.01256	3.07316	0.06845		4.99E-05	4.33E-06	1.71E-04	0.00E+00	2.25E-04
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	2.98726	3.11138	0.066		4.95E-05	4.39E-06	1.65E-04	0.00E+00	2.19E-04
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	2.92655	3.12062	0.06948		4.85E-05	4.40E-06	1.74E-04	0.00E+00	2.26E-04
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	2.92061	3.0954	0.08634		4.84E-05	4.36E-06	2.16E-04	0.00E+00	2.68E-04
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	2.94565	3.03082	0.1038		4.88E-05	4.27E-06	2.59E-04	0.00E+00	3.12E-04
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	2.91782	3.02287	0.12032		4.83E-05	4.26E-06	3.00E-04	0.00E+00	3.53E-04
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	3.03481	3.06603	0.13402		5.03E-05	4.32E-06	3.35E-04	0.00E+00	3.89E-04
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	3.05211	2.9694	0.07526		5.06E-05	4.19E-06	1.88E-04	0.00E+00	2.43E-04
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	3.15013	3.10762	0.07439		5.22E-05	4.38E-06	1.86E-04	0.00E+00	2.42E-04
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	3.21952	3.22972	0.07302		5.33E-05	4.55E-06	1.82E-04	0.00E+00	2.40E-04
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	3.23155	3.30749	0.07104		5.35E-05	4.66E-06	1.77E-04	0.00E+00	2.36E-04
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	3.19661	3.34934	0.06849		5.29E-05	4.72E-06	1.71E-04	0.00E+00	2.29E-04
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	3.12853	3.36644	0.08166		5.18E-05	4.74E-06	2.04E-04	0.00E+00	2.60E-04
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	3.14221	3.33834	0.10085		5.20E-05	4.71E-06	2.52E-04	0.00E+00	3.09E-04
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	3.1475	3.26419	0.12019		5.21E-05	4.60E-06	3.00E-04	0.00E+00	3.57E-04
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	3.19787	3.24608	0.13767		5.30E-05	4.58E-06	3.44E-04	0.00E+00	4.01E-04
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	3.1602	3.03406	0.07855		5.23E-05	4.28E-06	1.96E-04	0.00E+00	2.53E-04
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	3.29699	3.20307	0.07827		5.46E-05	4.51E-06	1.95E-04	0.00E+00	2.55E-04
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	3.41078	3.3636	0.07749		5.65E-05	4.74E-06	1.94E-04	0.00E+00	2.55E-04
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	3.47863	3.49471	0.07613		5.76E-05	4.93E-06	1.90E-04	0.00E+00	2.53E-04
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	3.48496	3.5809	0.07413		5.77E-05	5.05E-06	1.85E-04	0.00E+00	2.48E-04
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	3.45583	3.64651	0.07592		5.72E-05	5.14E-06	1.90E-04	0.00E+00	2.52E-04
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	3.37152	3.66769	0.09641		5.58E-05	5.17E-06	2.41E-04	0.00E+00	3.02E-04
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	3.39374	3.62543	0.11825		5.62E-05	5.11E-06	2.95E-04	0.00E+00	3.57E-04
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	3.37296	3.5382	0.13951		5.59E-05	4.99E-06	3.48E-04	0.00E+00	4.09E-04
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	3.23442	3.07025	0.08145		5.36E-05	4.33E-06	2.03E-04	0.00E+00	2.61E-04

PHASE 1 OPERATIONAL PM10 24 HR

Unmitigated Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s: Onsite Running	Onsite Idle	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3]: Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	3.42184	3.2776	0.08186		5.67E-05	4.62E-06	2.04E-04	0.00E+00	2.66E-04
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	3.58894	3.48062	0.08179		5.94E-05	4.91E-06	2.04E-04	0.00E+00	2.69E-04
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	3.71578	3.66273	0.08115		6.15E-05	5.16E-06	2.03E-04	0.00E+00	2.69E-04
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	3.78446	3.80832	0.07986		6.27E-05	5.37E-06	1.99E-04	0.00E+00	2.67E-04
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	3.80505	3.92765	0.07794		6.30E-05	5.54E-06	1.95E-04	0.00E+00	2.63E-04
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	3.75713	3.99879	0.09056		6.22E-05	5.64E-06	2.26E-04	0.00E+00	2.94E-04
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	3.64817	4.02226	0.11441		6.04E-05	5.67E-06	2.86E-04	0.00E+00	3.52E-04
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	3.68972	3.97863	0.13921		6.11E-05	5.61E-06	3.48E-04	0.00E+00	4.14E-04
315	UCART5	439152.4	3761698.92	439152.35, 3761698.92	3.27629	3.30008	0.08388		5.43E-05	4.65E-06	2.09E-04	0.00E+00	2.68E-04
316	UCART5	439202.4	3761698.92	439202.35, 3761698.92	3.50775	3.32014	0.08502		5.81E-05	4.68E-06	2.12E-04	0.00E+00	2.75E-04
317	UCART5	439252.4	3761698.92	439252.35, 3761698.92	3.72005	3.55384	0.08572		6.16E-05	5.01E-06	2.14E-04	0.00E+00	2.81E-04
318	UCART5	439302.4	3761698.92	439302.35, 3761698.92	3.9129	3.78757	0.08592		6.48E-05	5.34E-06	2.15E-04	0.00E+00	2.85E-04
319	UCART5	439352.4	3761698.92	439352.35, 3761698.92	4.06334	4.0035	0.08553		6.73E-05	5.64E-06	2.14E-04	0.00E+00	2.87E-04
320	UCART5	439402.4	3761698.92	439402.35, 3761698.92	4.15924	4.1934	0.08448		6.89E-05	5.91E-06	2.11E-04	0.00E+00	2.86E-04
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	4.153	4.31204	0.08345		6.88E-05	6.08E-06	2.08E-04	0.00E+00	2.83E-04
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	4.10117	4.41237	0.1087		6.79E-05	6.22E-06	2.71E-04	0.00E+00	3.46E-04
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	3.99405	4.44191	0.13656		6.62E-05	6.26E-06	3.41E-04	0.00E+00	4.13E-04
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	3.51192	3.52278	0.08569		5.82E-05	4.96E-06	2.14E-04	0.00E+00	2.77E-04
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	3.55797	3.59353	0.08765		5.89E-05	5.06E-06	2.19E-04	0.00E+00	2.83E-04
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	3.81716	3.62183	0.0892		6.32E-05	5.10E-06	2.23E-04	0.00E+00	2.91E-04
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	4.07784	3.88335	0.09036		6.75E-05	5.47E-06	2.26E-04	0.00E+00	2.99E-04
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	4.29779	4.1505	0.09098		7.12E-05	5.85E-06	2.27E-04	0.00E+00	3.04E-04
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	4.46755	4.3995	0.09095		7.40E-05	6.20E-06	2.27E-04	0.00E+00	3.07E-04
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	4.55347	4.60365	0.09018		7.54E-05	6.49E-06	2.25E-04	0.00E+00	3.07E-04
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	4.54767	4.75737	0.10129		7.53E-05	6.71E-06	2.53E-04	0.00E+00	3.35E-04
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	4.47506	4.88201	0.13149		7.41E-05	6.88E-06	3.28E-04	0.00E+00	4.09E-04
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	3.76797	3.72048	0.08681		6.24E-05	5.24E-06	2.17E-04	0.00E+00	2.84E-04
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	3.84738	3.8467	0.08963		6.37E-05	5.42E-06	2.24E-04	0.00E+00	2.93E-04
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	3.88718	3.93587	0.09214		6.44E-05	5.55E-06	2.30E-04	0.00E+00	3.00E-04
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	4.21533	4.00465	0.09433		6.98E-05	5.64E-06	2.36E-04	0.00E+00	3.11E-04
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	4.49748	4.26713	0.09605		7.45E-05	6.01E-06	2.40E-04	0.00E+00	3.20E-04
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	4.75066	4.57517	0.09726		7.87E-05	6.45E-06	2.43E-04	0.00E+00	3.28E-04
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	4.95643	4.87755	0.09782		8.21E-05	6.87E-06	2.44E-04	0.00E+00	3.33E-04
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	5.0319	5.10484	0.09752		8.33E-05	7.19E-06	2.44E-04	0.00E+00	3.34E-04
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	5.05021	5.33278	0.12395		8.37E-05	7.52E-06	3.10E-04	0.00E+00	4.01E-04
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	3.98714	3.88818	0.08711		6.60E-05	5.48E-06	2.18E-04	0.00E+00	2.89E-04
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	4.13329	4.06503	0.09078		6.85E-05	5.73E-06	2.27E-04	0.00E+00	3.01E-04
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	4.22714	4.21004	0.09427		7.00E-05	5.93E-06	2.35E-04	0.00E+00	3.11E-04
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	4.27891	4.33841	0.09758		7.09E-05	6.11E-06	2.44E-04	0.00E+00	3.21E-04
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	4.63404	4.41497	0.10056		7.68E-05	6.22E-06	2.51E-04	0.00E+00	3.34E-04
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	5.00715	4.7292	0.1032		8.29E-05	6.67E-06	2.58E-04	0.00E+00	3.47E-04
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	5.31123	5.09691	0.10528		8.80E-05	7.18E-06	2.63E-04	0.00E+00	3.58E-04
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	5.50367	5.41321	0.10667		9.12E-05	7.63E-06	2.66E-04	0.00E+00	3.65E-04
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	5.64735	5.75308	0.11424		9.35E-05	8.11E-06	2.85E-04	0.00E+00	3.87E-04
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	4.16672	4.02544	0.08654		6.90E-05	5.67E-06	2.16E-04	0.00E+00	2.91E-04
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	4.37569	4.24789	0.09103		7.25E-05	5.99E-06	2.27E-04	0.00E+00	3.06E-04
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	4.54786	4.4515	0.09552		7.53E-05	6.27E-06	2.39E-04	0.00E+00	3.20E-04
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	4.70445	4.66219	0.1		7.79E-05	6.57E-06	2.50E-04	0.00E+00	3.34E-04
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	4.77939	4.82394	0.10434		7.92E-05	6.80E-06	2.61E-04	0.00E+00	3.47E-04
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	5.18897	4.94917	0.10848		8.60E-05	6.98E-06	2.71E-04	0.00E+00	3.64E-04
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	5.63822	5.29487	0.11232		9.34E-05	7.46E-06	2.80E-04	0.00E+00	3.81E-04
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	6.00733	5.73851	0.11569		9.95E-05	8.09E-06	2.89E-04	0.00E+00	3.96E-04
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	6.2823	6.16954	0.11835		1.04E-04	8.70E-06	2.96E-04	0.00E+00	4.08E-04
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	4.29772	4.12519	0.08502		7.12E-05	5.81E-06	2.12E-04	0.00E+00	2.89E-04
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	4.56494	4.38836	0.09026		7.56E-05	6.18E-06	2.25E-04	0.00E+00	3.07E-04
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	4.81183	4.64554	0.09568		7.97E-05	6.55E-06	2.39E-04	0.00E+00	3.25E-04
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	5.06936	4.93135	0.10133		8.40E-05	6.95E-06	2.53E-04	0.00E+00	3.44E-04
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	5.26498	5.18483	0.10706		8.72E-05	7.31E-06	2.67E-04	0.00E+00	3.62E-04
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	5.37883	5.39665	0.11284		8.91E-05	7.61E-06	2.82E-04	0.00E+00	3.78E-04
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	5.87382	5.60447	0.1186		9.73E-05	7.90E-06	2.96E-04	0.00E+00	4.01E-04
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	6.41161	5.97736	0.1242		1.06E-04	8.42E-06	3.10E-04	0.00E+00	4.25E-04
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	6.87985	6.53208	0.12944		1.14E-04	9.21E-06	3.23E-04	0.00E+00	4.46E-04
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	4.46428	4.25081	0.08254		7.39E-05	5.99E-06	2.06E-04	0.00E+00	2.86E-04
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	4.70036	4.48751	0.08843		7.79E-05	6.32E-06	2.21E-04	0.00E+00	3.05E-04
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	5.01461	4.79049	0.0947		8.31E-05	6.75E-06	2.36E-04	0.00E+00	3.26E-04
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	5.36596	5.14231	0.10142		8.89E-05	7.25E-06	2.53E-04	0.00E+00	3.49E-04
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	5.6874	5.48815	0.10851		9.42E-05	7.73E-06	2.71E-04	0.00E+00	3.73E-04
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	5.93182	5.79325	0.11594		9.83E-05	8.16E-06	2.90E-04	0.00E+00	3.96E-04
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	6.12932	6.09889	0.12372		1.02E-04	8.60E-06	3.09E-04	0.00E+00	4.19E-04
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	6.67353	6.36984	0.13177		1.11E-04	8.98E-06	3.29E-04	0.00E+00	4.49E-04
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	7.34641	6.78412	0.13996		1.22E-04	9.56E-06	3.50E-04	0.00E+00	4.81E-04
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	4.67317	4.35586	0.07907		7.74E-05	6.14E-06	1.97E-04	0.00E+00	2.81E-04
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	4.94703	4.63374	0.08554		8.19E-05	6.53E-06	2.14E-04	0.00E+00	3.02E-04
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	5.21529	4.92744	0.09254		8.64E-05	6.94E-06	2.31E-04	0.00E+00	3.24E-04
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	5.60774	5.31073	0.10018		9.29E-05	7.48E-06	2.50E-04	0.00E+00	3.51E-04
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	6.02097	5.71362	0.10847		9.97E-05	8.05E-06	2.71E-04	0.00E+00	3.79E-04
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	6.41214	6.12152	0.11748		1.06E-04	8.63E-06	2.93E-04	0.00E+00	4.08E-04
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	6.78156	6.54651	0.12727		1.12E-04	9.23E-06	3.18E-04	0.00E+00	4.39E-04
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	7.07539	6.95691	0.13786		1.17E-04	9.81E-06	3.44E-04	0.00E+00	4.71E-04
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	7.7108	7.34228	0.14925		1.28E-04	1.03E-05	3.73E-04	0.00E+00	5.11E-04
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	2.76375	2.91726	0.12828		4.58E-05	4.11E-06	3.20E-04	0.00E+00	3.70E-04
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	2.94469	2.96004	0.12335		4.88E-05	4.17E-06	3.08E-04	0.00E+00	3.61E-04
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	3.13259	3.18563	0.11251		5.19E-05	4.49E-06	2.81E-04	0.00E+00	3.37E-04
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	3.2553	3.36967	0.09696		5.39E-05	4.75E-06	2.42E-04	0.00E+00	3.01E-04
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	3.29852	3.47624	0.07871		5.46E-05	4.90E-06	1.97E-04	0.00E+00	2.56E-04
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	3.2739	3.5109	0.06433		5.42E-05	4.95E-06	1.61E-04	0.00E+00	2.20E-04
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	2.97485	3.10102	0.13855		4.93E-05	4.37E-06	3.46E-04	0.00E+00	4.00E-04
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	3.06277	3.16444	0.13652		5.07E-05	4.46E-06	3.41E-04	0.00E+00	3.96E-04
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	3.29051	3.32847	0.12744		5.45E-05	4.69E-06	3.18E-04	0.00E+00	3.77E-04
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	3.45043	3.56038	0.1122		5.72E-05	5.02E-06	2.80E-04	0.00E+00	3.42E-04
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	3.5237	3.71018	0.09281		5.84E-05	5.23E-06	2.32E-04	0.00E+00	2.95E-04
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	3.52118	3.78079	0.07191		5.83E-05	5.33E-06	1.80E-04	0.00E+00	2.43E-04
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	3.19075	3.28523	0.14837		5.29E-05	4.63E-06	3.71E-04	0.00E+00	4.28E-04
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	3.18439	3.38019	0.15013		5.27E-05	4.76E-06	3.75E-04	0.00E+00	4.32E-04
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	3.45805	3.47419	0.14371		5.73E-05	4.90E-06	3.59E-04	0.00E+00	4.21E-04
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	3.66638	3.76667	0.12954		6.07E-05	5.31E-06	3.23E-04	0.00E+00	3.90E-04
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	3.77795	3.97144	0.10942		6.26E-05	5.60E-06	2.73E-04	0.00E+00	3.41E-04
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	3.79838	4.08295	0.08632		6.29E-05	5.75E-06	2.16E-04	0.00E+00	2.84E-04
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	3.4154	3.49533	0.15727		5.66E-05	4.93E-06	3.93E-04	0.00E+00	4.54E-04
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	3.42919	3.60504	0.16378		5.68E-05	5.08E-06	4.09E-04	0.00E+00	4.71E-04
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	3.6367	3.72252	0.16118		6.02E-05	5.25E-06	4.02E-04	0.00E+00	4.68E-04
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	3.89851	3.9812	0.14911		6.46E-05	5.61E-06	3.72E-04	0.00E+00	4.43E-04

PHASE 1 OPERATIONAL PM10 24 HR

Unmitigated Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	

Discrete Receptor ID	X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s: Onsite Running	Onsite Idle	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3]: Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
409 UCART6	439816.6	3761570.65	439816.61, 3761570.65	4.05951	4.25577	0.12895		6.72E-05	6.00E-06	3.22E-04	0.00E+00	3.95E-04
410 UCART6	439866.6	3761570.65	439866.61, 3761570.65	4.10609	4.41686	0.10382		6.80E-05	6.23E-06	2.59E-04	0.00E+00	3.33E-04
411 UCART7	440451.1	3762893.83	440451.14, 3762893.83	22.93889	26.594	0.46199		3.80E-04	3.75E-05	1.15E-03	0.00E+00	1.57E-03
412 UCART7	440501.1	3762893.83	440501.14, 3762893.83	20.68432	22.69231	0.3543		3.43E-04	3.20E-05	8.85E-04	0.00E+00	1.26E-03
413 UCART7	440551.1	3762893.83	440551.14, 3762893.83	18.49379	19.13357	0.29536		3.06E-04	2.70E-05	7.38E-04	0.00E+00	1.07E-03
414 UCART7	440601.1	3762893.83	440601.14, 3762893.83	16.44574	16.44454	0.2575		2.72E-04	2.32E-05	6.43E-04	0.00E+00	9.39E-04
415 UCART7	440651.1	3762893.83	440651.14, 3762893.83	14.46881	14.35574	0.22235		2.40E-04	2.02E-05	5.55E-04	0.00E+00	8.15E-04
416 UCART7	440701.1	3762893.83	440701.14, 3762893.83	12.75753	12.70834	0.19261		2.11E-04	1.79E-05	4.81E-04	0.00E+00	7.10E-04
417 UCART7	440751.1	3762893.83	440751.14, 3762893.83	11.13651	11.20504	0.16857		1.84E-04	1.58E-05	4.21E-04	0.00E+00	6.21E-04
418 UCART7	440801.1	3762893.83	440801.14, 3762893.83	10.17519	9.97478	0.14989		1.69E-04	1.41E-05	3.74E-04	0.00E+00	5.57E-04
419 UCART7	440851.1	3762893.83	440851.14, 3762893.83	9.52801	9.17178	0.13513		1.58E-04	1.29E-05	3.37E-04	0.00E+00	5.08E-04
420 UCART7	440451.1	3762943.83	440451.14, 3762943.83	19.42005	20.48645	0.43152		3.22E-04	2.89E-05	1.08E-03	0.00E+00	1.43E-03
421 UCART7	440501.1	3762943.83	440501.14, 3762943.83	18.02764	18.89627	0.33294		2.99E-04	2.66E-05	8.31E-04	0.00E+00	1.16E-03
422 UCART7	440551.1	3762943.83	440551.14, 3762943.83	16.64423	17.20028	0.27408		2.76E-04	2.42E-05	6.84E-04	0.00E+00	9.84E-04
423 UCART7	440601.1	3762943.83	440601.14, 3762943.83	15.25647	15.3699	0.22455		2.53E-04	2.17E-05	5.61E-04	0.00E+00	8.35E-04
424 UCART7	440651.1	3762943.83	440651.14, 3762943.83	13.8437	13.68626	0.19887		2.29E-04	1.93E-05	4.97E-04	0.00E+00	7.45E-04
425 UCART7	440701.1	3762943.83	440701.14, 3762943.83	12.73097	12.24595	0.18226		2.11E-04	1.73E-05	4.55E-04	0.00E+00	6.83E-04
426 UCART7	440751.1	3762943.83	440751.14, 3762943.83	11.46445	10.98313	0.1649		1.90E-04	1.55E-05	4.12E-04	0.00E+00	6.17E-04
427 UCART7	440801.1	3762943.83	440801.14, 3762943.83	10.33456	9.97297	0.14942		1.71E-04	1.41E-05	3.73E-04	0.00E+00	5.58E-04
428 UCART7	440851.1	3762943.83	440851.14, 3762943.83	9.22375	9.08853	0.13566		1.53E-04	1.28E-05	3.39E-04	0.00E+00	5.04E-04
429 UCART8	441116.7	3763135.31	441116.67, 3763135.31	6.38388	6.09835	0.07295		1.06E-04	8.60E-06	1.82E-04	0.00E+00	2.97E-04
430 UCART8	441166.7	3763135.31	441166.67, 3763135.31	5.86977	5.69138	0.06851		9.72E-05	8.02E-06	1.71E-04	0.00E+00	2.76E-04
431 UCART8	441116.7	3763185.31	441116.67, 3763185.31	6.39709	6.02804	0.06856		1.06E-04	8.50E-06	1.71E-04	0.00E+00	2.86E-04
432 UCART8	441166.7	3763185.31	441166.67, 3763185.31	5.95011	5.66568	0.0657		9.86E-05	7.99E-06	1.64E-04	0.00E+00	2.71E-04
433 UCART8	441116.7	3763235.31	441116.67, 3763235.31	6.28103	5.75614	0.06176		1.04E-04	8.11E-06	1.54E-04	0.00E+00	2.66E-04
434 UCART8	441166.7	3763235.31	441166.67, 3763235.31	5.88777	5.53101	0.06058		9.75E-05	7.80E-06	1.51E-04	0.00E+00	2.57E-04
435 UCART8	441116.7	3763285.31	441116.67, 3763285.31	6.09226	5.66248	0.05421		1.01E-04	7.98E-06	1.35E-04	0.00E+00	2.44E-04
436 UCART8	441166.7	3763285.31	441166.67, 3763285.31	5.82457	5.39913	0.05363		9.65E-05	7.61E-06	1.34E-04	0.00E+00	2.38E-04
437 UCART8	441116.7	3763335.31	441116.67, 3763335.31	5.70696	5.42452	0.05546		9.45E-05	7.65E-06	1.38E-04	0.00E+00	2.41E-04
438 UCART8	441166.7	3763335.31	441166.67, 3763335.31	5.54793	5.2004	0.04917		9.19E-05	7.33E-06	1.23E-04	0.00E+00	2.22E-04
439 UCART8	441116.7	3763385.31	441116.67, 3763385.31	5.39531	5.10499	0.05732		8.94E-05	7.19E-06	1.43E-04	0.00E+00	2.40E-04
440 UCART8	441166.7	3763385.31	441166.67, 3763385.31	5.26941	4.99876	0.05162		8.73E-05	7.05E-06	1.29E-04	0.00E+00	2.23E-04
441 UCART8	441116.7	3763435.31	441116.67, 3763435.31	5.02067	4.73083	0.05823		8.32E-05	6.67E-06	1.45E-04	0.00E+00	2.35E-04
442 UCART8	441166.7	3763435.31	441166.67, 3763435.31	4.96264	4.68844	0.05292		8.22E-05	6.61E-06	1.32E-04	0.00E+00	2.21E-04
443 UCART9	440433.4	3762815.13	440433.43, 3762815.13	29.58043	35.45622	0.56509		4.90E-04	5.00E-05	1.41E-03	0.00E+00	1.95E-03
444 UCART9	440483.4	3762815.13	440483.43, 3762815.13	25.54871	27.89126	0.42051		4.23E-04	3.93E-05	1.05E-03	0.00E+00	1.51E-03
445 UCART9	440533.4	3762815.13	440533.43, 3762815.13	21.51985	23.10266	0.32097		3.56E-04	3.26E-05	8.02E-04	0.00E+00	1.19E-03
446 UCART9	440583.4	3762815.13	440583.43, 3762815.13	17.90877	19.54151	0.2642		2.97E-04	2.75E-05	6.60E-04	0.00E+00	9.84E-04
447 UCART9	440633.4	3762815.13	440633.43, 3762815.13	16.47383	16.94776	0.2226		2.73E-04	2.39E-05	5.56E-04	0.00E+00	8.53E-04
448 UCART9	440683.4	3762815.13	440683.43, 3762815.13	15.18157	14.96157	0.19082		2.51E-04	2.11E-05	4.77E-04	0.00E+00	7.49E-04
449 UCART9	440733.4	3762815.13	440733.43, 3762815.13	14.01813	13.38555	0.16611		2.32E-04	1.89E-05	4.15E-04	0.00E+00	6.66E-04
450 UCART9	440783.4	3762815.13	440783.43, 3762815.13	12.97521	12.14684	0.14754		2.15E-04	1.71E-05	3.68E-04	0.00E+00	6.00E-04
451 UCART9	440833.4	3762815.13	440833.43, 3762815.13	12.0351	11.11059	0.13453		1.99E-04	1.57E-05	3.36E-04	0.00E+00	5.51E-04
452 UCART9	440883.4	3762815.13	440883.43, 3762815.13	11.19056	10.25613	0.12242		1.85E-04	1.45E-05	3.06E-04	0.00E+00	5.06E-04
453 UCART9	440933.4	3762815.13	440933.43, 3762815.13	10.4255	9.4926	0.11078		1.73E-04	1.34E-05	2.77E-04	0.00E+00	4.63E-04
454 UCART9	440983.4	3762815.13	440983.43, 3762815.13	9.73021	8.84242	0.09962		1.61E-04	1.25E-05	2.49E-04	0.00E+00	4.22E-04
455 UCART9	440433.4	3762865.13	440433.43, 3762865.13	25.92716	32.46072	0.53655		4.29E-04	4.58E-05	1.34E-03	0.00E+00	1.82E-03
456 UCART9	440483.4	3762865.13	440483.43, 3762865.13	22.98333	25.7304	0.40335		3.81E-04	3.63E-05	1.01E-03	0.00E+00	1.42E-03
457 UCART9	440533.4	3762865.13	440533.43, 3762865.13	20.22807	20.81297	0.33696		3.35E-04	2.93E-05	8.41E-04	0.00E+00	1.21E-03
458 UCART9	440583.4	3762865.13	440583.43, 3762865.13	17.65849	17.40259	0.27949		2.92E-04	2.45E-05	6.98E-04	0.00E+00	1.01E-03
459 UCART9	440633.4	3762865.13	440633.43, 3762865.13	15.27181	14.96851	0.23328		2.53E-04	2.11E-05	5.83E-04	0.00E+00	8.57E-04
460 UCART9	440683.4	3762865.13	440683.43, 3762865.13	13.06413	13.09227	0.19819		2.16E-04	1.85E-05	4.95E-04	0.00E+00	7.30E-04
461 UCART9	440733.4	3762865.13	440733.43, 3762865.13	11.98485	11.90531	0.17215		1.99E-04	1.68E-05	4.30E-04	0.00E+00	6.45E-04
462 UCART9	440783.4	3762865.13	440783.43, 3762865.13	11.2879	10.97836	0.15281		1.87E-04	1.55E-05	3.82E-04	0.00E+00	5.84E-04
463 UCART9	440833.4	3762865.13	440833.43, 3762865.13	10.6384	10.18447	0.13782		1.76E-04	1.44E-05	3.44E-04	0.00E+00	5.35E-04
464 UCART9	440883.4	3762865.13	440883.43, 3762865.13	10.02934	9.49572	0.12539		1.66E-04	1.34E-05	3.13E-04	0.00E+00	4.93E-04
465 UCART9	440933.4	3762865.13	440933.43, 3762865.13	9.46018	8.8703	0.11444		1.57E-04	1.25E-05	2.86E-04	0.00E+00	4.55E-04
466 UCART9	440983.4	3762865.13	440983.43, 3762865.13	8.93374	8.31665	0.1044		1.48E-04	1.17E-05	2.61E-04	0.00E+00	4.20E-04
467 UCART10	441118.3	3762686.02	441118.27, 3762686.02	7.71125	7.20878	0.08814		1.28E-04	1.02E-05	2.20E-04	0.00E+00	3.58E-04
468 UCART10	441168.3	3762686.02	441168.27, 3762686.02	7.20975	6.79581	0.0806		1.19E-04	9.58E-06	2.01E-04	0.00E+00	3.30E-04
469 UCART10	441118.3	3762736.02	441118.27, 3762736.02	8.18991	7.48201	0.08449		1.36E-04	1.05E-05	2.11E-04	0.00E+00	3.57E-04
470 UCART10	441168.3	3762736.02	441168.27, 3762736.02	7.6497	7.03341	0.07802		1.27E-04	9.91E-06	1.95E-04	0.00E+00	3.31E-04
471 UCART10	441118.3	3762786.02	441118.27, 3762786.02	8.28597	7.52437	0.08225		1.37E-04	1.06E-05	2.05E-04	0.00E+00	3.53E-04
472 UCART10	441168.3	3762786.02	441168.27, 3762786.02	7.76896	7.08826	0.07619		1.29E-04	9.99E-06	1.90E-04	0.00E+00	3.29E-04
473 UCART10	441118.3	3762836.02	441118.27, 3762836.02	7.99994	7.32469	0.07662		1.33E-04	1.03E-05	1.91E-04	0.00E+00	3.34E-04
474 UCART10	441168.3	3762836.02	441168.27, 3762836.02	7.54808	6.91571	0.07134		1.25E-04	9.75E-06	1.78E-04	0.00E+00	3.13E-04
475 UCART11	440411.7	3762093.41	440411.67, 3762093.41	8.45887	9.34181	0.19929		1.40E-04	1.32E-05	4.98E-04	0.00E+00	6.51E-04
476 UCART11	440461.7	3762093.41	440461.67, 3762093.41	7.72677	8.65813	0.18484		1.28E-04	1.22E-05	4.62E-04	0.00E+00	6.02E-04
477 UCART11	440511.7	3762093.41	440511.67, 3762093.41	7.19947	8.0033	0.17174		1.19E-04	1.13E-05	4.29E-04	0.00E+00	5.59E-04
478 UCART11	440561.7	3762093.41	440561.67, 3762093.41	6.74608	7.3161	0.1585		1.12E-04	1.03E-05	3.96E-04	0.00E+00	5.18E-04
479 UCART11	440611.7	3762093.41	440611.67, 3762093.41	6.17382	6.61137	0.14444		1.02E-04	9.32E-06	3.61E-04	0.00E+00	4.72E-04
480 UCART11	440411.7	3762143.41	440411.67, 3762143.41	9.34904	10.53361	0.22644		1.55E-04	1.48E-05	5.65E-04	0.00E+00	7.35E-04
481 UCART11	440461.7	3762143.41	440461.67, 3762143.41	8.49102	9.65239	0.20961		1.41E-04	1.36E-05	5.23E-04	0.00E+00	6.78E-04
482 UCART11	440511.7	3762143.41	440511.67, 3762143.41	8.00292	8.80349	0.19316		1.33E-04	1.24E-05	4.82E-04	0.00E+00	6.27E-04
483 UCART11	440561.7	3762143.41	440561.67, 3762143.41	7.36423	7.91803	0.17545		1.22E-04	1.12E-05	4.38E-04	0.00E+00	5.71E-04
484 UCART11	440611.7	3762143.41	440611.67, 3762143.41	6.62177	7.06629	0.15638		1.10E-04	9.96E-06	3.91E-04	0.00E+00	5.10E-04
485 UCART12	440406.6	3762008.86	440406.61, 3762008.86	7.18988	7.9291	0.1644		1.19E-04	1.12E-05	4.11E-04	0.00E+00	5.41E-04
486 UCART12	440456.6	3762008.86	440456.61, 3762008.86	6.71755	7.25152	0.14822		1.11E-04	1.02E-05	3.70E-04	0.00E+00	4.92E-04
487 UCART12	440506.6	3762008.86	440506.61, 3762008.86	6.17114	6.77999	0.14081		1.02E-04	9.56E-06	3.52E-04	0.00E+00	4.63E-04
488 UCART12	440556.6	3762008.86	440556.61, 3762008.86	5.809	6.32645	0.13332		9.62E-05	8.92E-06	3.33E-04	0.00E+00	4.38E-04
489 UCART12	440606.6	3762008.86	440606.61, 3762008.86	5.47087	5.8499	0.12528		9.06E-05	8.24E-06	3.13E-04	0.00E+00	4.12E-04
490 UCART12	440656.6	3762008.86	440656.61, 3762008.86	5.05062	5.359	0.1165		8.37E-05	7.55E-06	2.91E-04	0.00E+00	3.82E-04
491 UCART12	440706.6	3762008.86	440706.61, 3762008.86	4.57826	4.87568	0.10704		7.58E-05	6.87E-06	2.67E-04	0.00E+00	3.50E-04
492 UCART12	440756.6	3762008.86	440756.61, 3762008.86	4.10681	4.41864	0.10065		6.80E-05	6.23E-06	2.51E-04	0.00E+00	3.26E-04
493 UCART12	440806.6	3762008.86	440806.61, 3762008.86	3.6687	3.98691	0.09909		6.08E-05	5.62E-06	2.47E-04	0.00E+00	3.14E-04
494 UCART12	440856.6	3762008.86	440856.61, 3762008.86	3.31719	3.70845	0.0969		5.49E-05	5.23E-06	2.42E-04	0.00E+00	3.02E-04
495 UCART12	440906.6	3762008.86	440906.61, 3762008.86	3.17964	3.68246	0.09416		5.27E-05	5.19E-06	2.35E-04	0.00E+00	2.93E-04
496 UCART12	440956.6	3762008.86	440956.61, 3762008.86	3.11025	3.63774	0.09086		5.15E-05	5.13E-06	2.27E-04	0.00E+00	2.84E-04
497 UCART12	441006.6	3762008.86	441006.61, 3762008.86	3.13741	3.58956	0.08721		5.20E-05	5.06E-06	2.18E-04	0.00E+00	2.75E-04
498 UCART12	441056.6	3762008.86	441056.61, 3762008.86	3.15288	3.52852	0.08326		5.22E-05	4.97E-06	2.08E-04	0.00E+00	2.65E-04
499 UCART12	441106.6	3762008.86	441106.61, 3762008.86	3.1682	3.46834	0.07918		5.25E-05	4.89E-06	1.98E-04	0.00E+00	2.55E-04
500 UCART12	441156.6	3762008.86	441156.61, 3762008.86	3.17555	3.40255	0.07503		5.26E-05	4.80E-06	1.87E-04	0.00E+00	2.45E-04
501 UCART12	440406.6	3762058.86	440406.61, 3762058.86	7.94586	8.75711	0.18256		1.32E-04	1.23E-05	4.56E-04	0.00E+00	6.00E-04
502 UCART12	440456.6	3762058.86	440456.61, 3762058.86	7.343	8.06135	0.1703		1.22E-04	1.14E-05	4.25E-04	0.00E+00	5.58E-04
503 UCART12	440506.6	3762058.86	440506.61, 3762058.86	6.72703	7.51395	0.15938		1.11E-04	1.06E-05	3.98E-04	0.00E+00	5.20E-04
504 UCART12	440556.6	3762058.86	440556.61, 3762058.86	6.37297	6.9416	0.14865		1.06E-04	9.78E-06	3.71E-04	0.00E+00	4.87E-04
505 UCART12	440606.6	3762058.86	440606.61, 3762058.86	5.91731	6.34141	0.13738		9.80E-05	8.94E-06	3.43E-04	0.00E+00	4.50E-04
506 UCART12	440656.6	3762058.86	440656.61, 3762058.86	5.38101	5.74646	0.12533		8.91E-05	8.10E-06	3.13E-04	0.00E+00	4.10E-04
507 UCART12	440706.6	3762058.86	440706.61, 3762058.86	4.8219	5.18351	0.11282		7.99E-05	7.31E-06	2.82E-04	0.00E+00	3.69E-04
508 UCART12	440756.6	3762058.86	440756.61, 3762058.86	4.29645	4.66261	0.10824		7.12E-05	6.57E-06	2.70E-04	0.00E+00	3.48E-04
509 UCART12	440806.6	3762058.86	440806.61, 3762058.86	3.83867	4.24576	0.10508		6.36E-05	5.98E-06	2.62E-04	0.00E+00	3.32E-04
510 UCART12	440856.6	3762058.86	440856.61, 3762058.86	3.52584	4.16853	0.10153		5.84E-05	5.88E-06	2.54E-04	0.00E+00	3.18E-04

PHASE 1 OPERATIONAL PM10 24 HR

Unmitigated Onsite Running	Onsite Idle	Generator	Offsite
1.66E-05	1.41E-06	2.50E-03	

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s: Onsite Running	Onsite Idle	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3]: Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	3.52381	4.09742	0.09771		5.84E-05	5.77E-06	2.44E-04	0.00E+00	3.08E-04
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	3.54148	4.01853	0.09371		5.87E-05	5.66E-06	2.34E-04	0.00E+00	2.98E-04
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	3.55335	3.93583	0.0896		5.89E-05	5.55E-06	2.24E-04	0.00E+00	2.88E-04
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	3.55812	3.84965	0.08546		5.89E-05	5.43E-06	2.13E-04	0.00E+00	2.78E-04
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	3.5517	3.75779	0.08132		5.88E-05	5.30E-06	2.03E-04	0.00E+00	2.67E-04
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	3.532	3.66021	0.07725		5.85E-05	5.16E-06	1.93E-04	0.00E+00	2.57E-04
517	ONSITE	440191.4	3762138.44	440191.38, 3762138.44	12.79285	19.23847	0.56559		2.12E-04	2.71E-05	1.41E-03	0.00E+00	1.65E-03
518	ONSITE	440241.4	3762138.44	440241.38, 3762138.44	11.68223	15.73363	0.3838		1.94E-04	2.22E-05	9.58E-04	0.00E+00	1.17E-03
519	ONSITE	440291.4	3762138.44	440291.38, 3762138.44	10.90968	13.44973	0.30044		1.81E-04	1.90E-05	7.50E-04	0.00E+00	9.50E-04
520	ONSITE	440341.4	3762138.44	440341.38, 3762138.44	10.22588	11.81548	0.25759		1.69E-04	1.67E-05	6.43E-04	0.00E+00	8.29E-04
521	ONSITE	440191.4	3762188.44	440191.38, 3762188.44	14.90418	23.9641	0.96823		2.47E-04	3.38E-05	2.42E-03	0.00E+00	2.70E-03
522	ONSITE	440241.4	3762188.44	440241.38, 3762188.44	13.27044	18.53843	0.50739		2.20E-04	2.61E-05	1.27E-03	0.00E+00	1.51E-03
523	ONSITE	440291.4	3762188.44	440291.38, 3762188.44	12.40403	15.41402	0.34115		2.05E-04	2.17E-05	8.52E-04	0.00E+00	1.08E-03
524	ONSITE	440341.4	3762188.44	440341.38, 3762188.44	11.56464	13.33748	0.2894		1.92E-04	1.88E-05	7.23E-04	0.00E+00	9.33E-04
525	ONSITE	440191.4	3762238.44	440191.38, 3762238.44	17.2603	27.11014	0.91063		2.86E-04	3.82E-05	2.27E-03	0.00E+00	2.60E-03
526	ONSITE	440241.4	3762238.44	440241.38, 3762238.44	15.19218	20.25434	0.53169		2.52E-04	2.85E-05	1.33E-03	0.00E+00	1.61E-03
527	ONSITE	440291.4	3762238.44	440291.38, 3762238.44	14.0961	16.68644	0.39635		2.33E-04	2.35E-05	9.90E-04	0.00E+00	1.25E-03
528	ONSITE	440341.4	3762238.44	440341.38, 3762238.44	12.95268	14.60721	0.33291		2.15E-04	2.06E-05	8.31E-04	0.00E+00	1.07E-03

PHASE 2 OPERATIONAL PM10 24-HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
3.70E-06	2.51E-07	6.20E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	5.56289	5.26633	0.10941		2.06E-05	1.32E-06	6.78E-04	0.00E+00	7.00E-04
2	1	439943.4	3761716.33	439943.36, 3761716.33	6.51039	6.1967	0.33795		2.41E-05	1.56E-06	2.10E-03	0.00E+00	2.12E-03
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	4.28854	4.24814	0.05531		1.59E-05	1.07E-06	3.43E-04	0.00E+00	3.60E-04
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	4.48261	4.45455	0.05726		1.66E-05	1.12E-06	3.55E-04	0.00E+00	3.73E-04
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	4.49811	4.48577	0.05853		1.66E-05	1.13E-06	3.63E-04	0.00E+00	3.81E-04
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	5.14878	5.07296	0.05871		1.91E-05	1.28E-06	3.64E-04	0.00E+00	3.84E-04
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	5.7917	5.69972	0.05771		2.14E-05	1.43E-06	3.58E-04	0.00E+00	3.81E-04
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	6.33494	6.27788	0.05544		2.34E-05	1.58E-06	3.44E-04	0.00E+00	3.69E-04
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	6.73567	6.55171	0.05179		2.49E-05	1.65E-06	3.21E-04	0.00E+00	3.48E-04
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	7.04258	6.88568	0.04669		2.61E-05	1.73E-06	2.90E-04	0.00E+00	3.17E-04
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	7.13256	7.14423	0.04139		2.64E-05	1.80E-06	2.57E-04	0.00E+00	2.85E-04
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	7.0579	7.16524	0.0412		2.61E-05	1.80E-06	2.55E-04	0.00E+00	2.83E-04
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	6.59489	6.84455	0.0405		2.44E-05	1.72E-06	2.51E-04	0.00E+00	2.77E-04
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	5.74755	6.13634	0.04227		2.13E-05	1.54E-06	2.62E-04	0.00E+00	2.85E-04
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	6.01404	6.28028	0.06169		2.23E-05	1.58E-06	3.83E-04	0.00E+00	4.06E-04
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	6.50531	6.81088	0.08465		2.41E-05	1.71E-06	5.25E-04	0.00E+00	5.51E-04
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	6.85425	7.18401	0.1085		2.54E-05	1.81E-06	6.73E-04	0.00E+00	7.00E-04
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	4.03622	4.09692	0.05004		1.49E-05	1.03E-06	3.10E-04	0.00E+00	3.26E-04
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	4.28457	4.25594	0.05046		1.59E-05	1.07E-06	3.13E-04	0.00E+00	3.30E-04
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	4.83108	4.74972	0.05017		1.79E-05	1.19E-06	3.11E-04	0.00E+00	3.30E-04
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	5.43171	5.36824	0.04882		2.01E-05	1.35E-06	3.03E-04	0.00E+00	3.24E-04
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	5.94795	5.89022	0.04647		2.20E-05	1.48E-06	2.88E-04	0.00E+00	3.12E-04
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	6.29498	6.20907	0.04314		2.33E-05	1.56E-06	2.67E-04	0.00E+00	2.92E-04
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	6.6186	6.62433	0.03863		2.45E-05	1.67E-06	2.40E-04	0.00E+00	2.66E-04
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	6.68678	6.74608	0.03652		2.47E-05	1.70E-06	2.26E-04	0.00E+00	2.53E-04
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	6.41788	6.58793	0.03624		2.37E-05	1.66E-06	2.25E-04	0.00E+00	2.50E-04
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	6.00106	6.19835	0.03554		2.22E-05	1.56E-06	2.20E-04	0.00E+00	2.44E-04
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	5.30101	5.62752	0.03433		1.96E-05	1.41E-06	2.13E-04	0.00E+00	2.34E-04
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	5.29559	5.50401	0.04724		1.96E-05	1.38E-06	2.93E-04	0.00E+00	3.14E-04
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	5.76594	6.01778	0.06532		2.13E-05	1.51E-06	4.05E-04	0.00E+00	4.28E-04
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	6.0742	6.33916	0.08509		2.25E-05	1.59E-06	5.28E-04	0.00E+00	5.52E-04
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	6.25036	6.53618	0.1037		2.31E-05	1.64E-06	6.43E-04	0.00E+00	6.68E-04
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	4.07983	4.03311	0.04382		1.51E-05	1.01E-06	2.72E-04	0.00E+00	2.88E-04
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	4.59012	4.52726	0.04306		1.70E-05	1.14E-06	2.67E-04	0.00E+00	2.85E-04
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	5.06272	4.99613	0.04162		1.87E-05	1.26E-06	2.58E-04	0.00E+00	2.78E-04
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	5.54729	5.47667	0.03926		2.05E-05	1.38E-06	2.43E-04	0.00E+00	2.65E-04
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	5.88876	5.83756	0.03618		2.18E-05	1.47E-06	2.24E-04	0.00E+00	2.48E-04
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	6.05495	6.04462	0.03287		2.24E-05	1.52E-06	2.04E-04	0.00E+00	2.28E-04
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	6.11852	6.15045	0.03268		2.26E-05	1.55E-06	2.03E-04	0.00E+00	2.27E-04
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	5.93296	6.02302	0.03224		2.20E-05	1.51E-06	2.00E-04	0.00E+00	2.23E-04
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	5.51789	5.66912	0.03151		2.04E-05	1.42E-06	1.95E-04	0.00E+00	2.17E-04
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	4.90734	5.11104	0.03043		1.82E-05	1.28E-06	1.89E-04	0.00E+00	2.08E-04
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	4.69107	4.85704	0.0367		1.74E-05	1.22E-06	2.28E-04	0.00E+00	2.46E-04
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	5.18981	5.39203	0.05083		1.92E-05	1.36E-06	3.15E-04	0.00E+00	3.36E-04
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	5.53182	5.76183	0.06695		2.05E-05	1.45E-06	4.15E-04	0.00E+00	4.37E-04
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	5.61761	5.85938	0.08333		2.08E-05	1.47E-06	5.17E-04	0.00E+00	5.39E-04
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	5.66241	5.90408	0.09719		2.10E-05	1.48E-06	6.03E-04	0.00E+00	6.25E-04
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	4.35128	4.32427	0.03723		1.61E-05	1.09E-06	2.31E-04	0.00E+00	2.48E-04
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	4.79039	4.76727	0.03564		1.77E-05	1.20E-06	2.21E-04	0.00E+00	2.40E-04
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	5.15756	5.15063	0.03348		1.91E-05	1.29E-06	2.08E-04	0.00E+00	2.28E-04
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	5.46021	5.47948	0.03067		2.02E-05	1.38E-06	1.90E-04	0.00E+00	2.12E-04
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	5.62366	5.68157	0.02983		2.08E-05	1.43E-06	1.85E-04	0.00E+00	2.07E-04
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	5.62795	5.73315	0.02955		2.08E-05	1.44E-06	1.83E-04	0.00E+00	2.05E-04
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	5.47279	5.62925	0.02902		2.03E-05	1.41E-06	1.80E-04	0.00E+00	2.02E-04
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	5.1008	5.30388	0.02826		1.89E-05	1.33E-06	1.75E-04	0.00E+00	1.95E-04
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	4.55845	4.79396	0.02723		1.69E-05	1.21E-06	1.69E-04	0.00E+00	1.87E-04
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	4.14539	4.27944	0.02902		1.53E-05	1.08E-06	1.80E-04	0.00E+00	1.96E-04
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	4.57054	4.73382	0.04031		1.69E-05	1.19E-06	2.50E-04	0.00E+00	2.68E-04
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	4.95434	5.14204	0.05338		1.83E-05	1.29E-06	3.31E-04	0.00E+00	3.51E-04
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	5.16159	5.36303	0.06727		1.91E-05	1.35E-06	4.17E-04	0.00E+00	4.38E-04
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	5.13454	5.34253	0.08016		1.90E-05	1.34E-06	4.97E-04	0.00E+00	5.17E-04
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	5.11414	5.31417	0.08978		1.89E-05	1.34E-06	5.57E-04	0.00E+00	5.77E-04
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	4.54249	4.51268	0.03075		1.68E-05	1.13E-06	1.91E-04	0.00E+00	2.09E-04
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	4.92071	4.9019	0.02858		1.82E-05	1.23E-06	1.77E-04	0.00E+00	1.97E-04
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	5.17174	5.17791	0.02752		1.91E-05	1.30E-06	1.71E-04	0.00E+00	1.91E-04
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	5.28281	5.32469	0.02729		1.95E-05	1.34E-06	1.69E-04	0.00E+00	1.90E-04
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	5.23148	5.31584	0.02693		1.94E-05	1.34E-06	1.67E-04	0.00E+00	1.88E-04
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	5.08421	5.21473	0.02636		1.88E-05	1.31E-06	1.63E-04	0.00E+00	1.84E-04
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	4.74831	4.92227	0.02558		1.76E-05	1.24E-06	1.59E-04	0.00E+00	1.77E-04
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	4.25035	4.45665	0.02458		1.57E-05	1.12E-06	1.52E-04	0.00E+00	1.69E-04
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	3.7747	3.88434	0.02338		1.40E-05	9.76E-07	1.45E-04	0.00E+00	1.60E-04
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	4.13024	4.26465	0.0322		1.53E-05	1.07E-06	2.00E-04	0.00E+00	2.16E-04
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	4.43761	4.59225	0.04302		1.64E-05	1.15E-06	2.67E-04	0.00E+00	2.84E-04
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	4.69911	4.86735	0.05477		1.74E-05	1.22E-06	3.40E-04	0.00E+00	3.58E-04
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	4.81497	4.98651	0.06626		1.78E-05	1.25E-06	4.11E-04	0.00E+00	4.30E-04
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	4.68006	4.85895	0.07604		1.73E-05	1.22E-06	4.71E-04	0.00E+00	4.90E-04
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	4.62178	4.78421	0.08214		1.71E-05	1.20E-06	5.09E-04	0.00E+00	5.28E-04
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	4.61413	4.59163	0.02576		1.71E-05	1.15E-06	1.60E-04	0.00E+00	1.78E-04
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	4.85619	4.85503	0.02553		1.80E-05	1.22E-06	1.58E-04	0.00E+00	1.77E-04
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	4.92979	4.9603	0.02522		1.82E-05	1.25E-06	1.56E-04	0.00E+00	1.76E-04
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	4.89834	4.96665	0.02476		1.81E-05	1.25E-06	1.54E-04	0.00E+00	1.73E-04
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	4.71039	4.81847	0.02419		1.74E-05	1.21E-06	1.50E-04	0.00E+00	1.69E-04
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	4.41521	4.56231	0.02341		1.63E-05	1.15E-06	1.45E-04	0.00E+00	1.63E-04
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	3.97865	4.15704	0.02245		1.47E-05	1.04E-06	1.39E-04	0.00E+00	1.55E-04
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	3.45798	3.62892	0.0213		1.28E-05	9.12E-07	1.32E-04	0.00E+00	1.46E-04
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	3.76105	3.87356	0.02593		1.39E-05	9.74E-07	1.61E-04	0.00E+00	1.76E-04
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	4.02312	4.15294	0.0349		1.49E-05	1.04E-06	2.16E-04	0.00E+00	2.32E-04
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	4.2635	4.40522	0.04488		1.58E-05	1.11E-06	2.78E-04	0.00E+00	2.95E-04
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	4.40812	4.55389	0.05514		1.63E-05	1.14E-06	3.42E-04	0.00E+00	3.59E-04
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	4.41448	4.5552	0.06439		1.63E-05	1.14E-06	3.99E-04	0.00E+00	4.17E-04
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	4.26561	4.41647	0.07138		1.58E-05	1.11E-06	4.43E-04	0.00E+00	4.59E-04
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	4.18296	4.31229	0.07462		1.55E-05	1.08E-06	4.63E-04	0.00E+00	4.79E-04
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	4.55259	4.54628	0.02386		1.68E-05	1.14E-06	1.48E-04	0.00E+00	1.66E-04
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	4.645	4.66709	0.02346		1.72E-05	1.17E-06	1.45E-04	0.00E+00	1.64E-04
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	4.58165	4.63733	0.02296		1.70E-05	1.17E-06	1.42E-04	0.00E+00	1.60E-04
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	4.43239	4.52595	0.02232		1.64E-05	1.14E-06	1.38E-04	0.00E+00	1.56E-04
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	4.13492	4.26266	0.02158		1.53E-05	1.07E-06	1.34E-04	0.00E+00	1.50E-04
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	3.73382	3.89135	0.02065		1.38E-05	9.78E-07	1.28E-04	0.00E+00	1.43E-04
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	3.23655	3.41116	0.01957		1.20E-05	8.57E-07	1.21E-04	0.00E+00	1.34E-04
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	3.43966	3.53499	0.02105		1.27E-05	8.89E-07	1.31E-04	0.00E+00	1.44E-04
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	3.69607	3.80729	0.02843		1.37E-05	9.57E-07	1.76E-04	0.00E+00	1.91E-04
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	3.89683	4.01817	0.03693		1.44E-05	1.01E-06	2.29E-04	0.00E+00	2.44E-04

Discrete Receptor ID	X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
				Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
103 UCART1	439670.2	3763392.51	439670.17, 3763392.51	4.07586	4.20195	0.04589		1.51E-05	1.06E-06	2.85E-04	0.00E+00	3.01E-04
104 UCART1	439720.2	3763392.51	439720.17, 3763392.51	4.09845	4.22139	0.05461		1.52E-05	1.06E-06	3.39E-04	0.00E+00	3.55E-04
105 UCART1	439770.2	3763392.51	439770.17, 3763392.51	3.98532	4.09778	0.0618		1.47E-05	1.03E-06	3.83E-04	0.00E+00	3.99E-04
106 UCART1	439820.2	3763392.51	439820.17, 3763392.51	3.89872	4.02385	0.06642		1.44E-05	1.01E-06	4.12E-04	0.00E+00	4.27E-04
107 UCART1	439870.2	3763392.51	439870.17, 3763392.51	3.7997	3.90073	0.06742		1.41E-05	9.80E-07	4.18E-04	0.00E+00	4.33E-04
108 UCART1	439170.2	3763442.51	439170.17, 3763442.51	4.36127	4.37656	0.022		1.61E-05	1.10E-06	1.36E-04	0.00E+00	1.54E-04
109 UCART1	439220.2	3763442.51	439220.17, 3763442.51	4.32129	4.36808	0.02144		1.60E-05	1.10E-06	1.33E-04	0.00E+00	1.50E-04
110 UCART1	439270.2	3763442.51	439270.17, 3763442.51	4.14431	4.2232	0.0208		1.53E-05	1.06E-06	1.29E-04	0.00E+00	1.45E-04
111 UCART1	439320.2	3763442.51	439320.17, 3763442.51	3.87914	3.99008	0.02004		1.44E-05	1.00E-06	1.24E-04	0.00E+00	1.40E-04
112 UCART1	439370.2	3763442.51	439370.17, 3763442.51	3.51522	3.65315	0.01917		1.30E-05	9.18E-07	1.19E-04	0.00E+00	1.33E-04
113 UCART1	439420.2	3763442.51	439420.17, 3763442.51	3.07401	3.22897	0.01816		1.14E-05	8.12E-07	1.13E-04	0.00E+00	1.25E-04
114 UCART1	439470.2	3763442.51	439470.17, 3763442.51	3.15503	3.2364	0.01722		1.17E-05	8.14E-07	1.07E-04	0.00E+00	1.19E-04
115 UCART1	439520.2	3763442.51	439520.17, 3763442.51	3.38639	3.48226	0.02334		1.25E-05	8.75E-07	1.45E-04	0.00E+00	1.58E-04
116 UCART1	439570.2	3763442.51	439570.17, 3763442.51	3.60641	3.71245	0.03047		1.33E-05	9.33E-07	1.89E-04	0.00E+00	2.03E-04
117 UCART1	439620.2	3763442.51	439620.17, 3763442.51	3.75799	3.86796	0.03832		1.39E-05	9.72E-07	2.38E-04	0.00E+00	2.52E-04
118 UCART1	439670.2	3763442.51	439670.17, 3763442.51	3.84939	3.95788	0.04619		1.42E-05	9.95E-07	2.86E-04	0.00E+00	3.02E-04
119 UCART1	439720.2	3763442.51	439720.17, 3763442.51	3.80179	3.90282	0.0533		1.41E-05	9.81E-07	3.30E-04	0.00E+00	3.46E-04
120 UCART1	439770.2	3763442.51	439770.17, 3763442.51	3.62786	3.74634	0.05862		1.34E-05	9.42E-07	3.63E-04	0.00E+00	3.78E-04
121 UCART1	439820.2	3763442.51	439820.17, 3763442.51	3.57088	3.67279	0.06129		1.32E-05	9.23E-07	3.80E-04	0.00E+00	3.94E-04
122 UCART1	439870.2	3763442.51	439870.17, 3763442.51	3.46422	3.54135	0.06062		1.28E-05	8.90E-07	3.76E-04	0.00E+00	3.90E-04
123 UCART2	439203.2	3762911.16	439203.2, 3762911.16	4.14885	4.11707	0.06974		1.54E-05	1.03E-06	4.32E-04	0.00E+00	4.49E-04
124 UCART2	439253.2	3762911.16	439253.2, 3762911.16	4.48587	4.46821	0.0732		1.66E-05	1.12E-06	4.54E-04	0.00E+00	4.72E-04
125 UCART2	439303.2	3762911.16	439303.2, 3762911.16	4.82911	4.83335	0.07924		1.79E-05	1.21E-06	4.91E-04	0.00E+00	5.10E-04
126 UCART2	439353.2	3762911.16	439353.2, 3762911.16	5.17157	5.20709	0.08788		1.91E-05	1.31E-06	5.45E-04	0.00E+00	5.65E-04
127 UCART2	439403.2	3762911.16	439403.2, 3762911.16	5.48983	5.56837	0.09604		2.03E-05	1.40E-06	5.95E-04	0.00E+00	6.17E-04
128 UCART2	439453.2	3762911.16	439453.2, 3762911.16	5.76978	5.90401	0.10331		2.14E-05	1.48E-06	6.41E-04	0.00E+00	6.63E-04
129 UCART2	439503.2	3762911.16	439503.2, 3762911.16	5.99505	6.19703	0.10914		2.22E-05	1.56E-06	6.77E-04	0.00E+00	7.00E-04
130 UCART2	439553.2	3762911.16	439553.2, 3762911.16	6.85398	6.8669	0.1125		2.54E-05	1.73E-06	6.98E-04	0.00E+00	7.25E-04
131 UCART2	439203.2	3762961.16	439203.2, 3762961.16	4.15823	4.15016	0.06458		1.54E-05	1.04E-06	4.00E-04	0.00E+00	4.17E-04
132 UCART2	439253.2	3762961.16	439253.2, 3762961.16	4.46255	4.44204	0.07109		1.65E-05	1.12E-06	4.41E-04	0.00E+00	4.58E-04
133 UCART2	439303.2	3762961.16	439303.2, 3762961.16	4.85917	4.7268	0.07737		1.80E-05	1.19E-06	4.80E-04	0.00E+00	4.99E-04
134 UCART2	439353.2	3762961.16	439353.2, 3762961.16	4.97919	4.99796	0.0832		1.84E-05	1.26E-06	5.16E-04	0.00E+00	5.36E-04
135 UCART2	439403.2	3762961.16	439403.2, 3762961.16	5.11133	5.23897	0.08809		1.89E-05	1.32E-06	5.46E-04	0.00E+00	5.66E-04
136 UCART2	439453.2	3762961.16	439453.2, 3762961.16	5.56535	5.49058	0.09139		2.06E-05	1.38E-06	5.67E-04	0.00E+00	5.89E-04
137 UCART2	439503.2	3762961.16	439503.2, 3762961.16	6.22836	6.23171	0.09283		2.30E-05	1.57E-06	5.76E-04	0.00E+00	6.00E-04
138 UCART2	439553.2	3762961.16	439553.2, 3762961.16	6.99713	6.98039	0.09156		2.59E-05	1.75E-06	5.68E-04	0.00E+00	5.95E-04
139 UCART2	439203.2	3763011.16	439203.2, 3763011.16	4.356	4.34959	0.06347		1.61E-05	1.09E-06	3.94E-04	0.00E+00	4.11E-04
140 UCART2	439253.2	3763011.16	439253.2, 3763011.16	4.60947	4.66249	0.06809		1.71E-05	1.17E-06	4.22E-04	0.00E+00	4.40E-04
141 UCART2	439303.2	3763011.16	439303.2, 3763011.16	4.89159	4.94857	0.07208		1.81E-05	1.24E-06	4.47E-04	0.00E+00	4.66E-04
142 UCART2	439353.2	3763011.16	439353.2, 3763011.16	5.01462	5.18394	0.07511		1.86E-05	1.30E-06	4.66E-04	0.00E+00	4.86E-04
143 UCART2	439403.2	3763011.16	439403.2, 3763011.16	5.20515	5.0633	0.07706		1.93E-05	1.27E-06	4.78E-04	0.00E+00	4.98E-04
144 UCART2	439453.2	3763011.16	439453.2, 3763011.16	5.95027	5.77698	0.07707		2.20E-05	1.45E-06	4.78E-04	0.00E+00	5.01E-04
145 UCART2	439503.2	3763011.16	439503.2, 3763011.16	6.44942	6.29661	0.07521		2.39E-05	1.58E-06	4.66E-04	0.00E+00	4.92E-04
146 UCART2	439553.2	3763011.16	439553.2, 3763011.16	7.16758	7.09559	0.07089		2.65E-05	1.78E-06	4.40E-04	0.00E+00	4.68E-04
147 UCART2	439203.2	3763061.16	439203.2, 3763061.16	4.3753	4.42465	0.05993		1.62E-05	1.11E-06	3.72E-04	0.00E+00	3.89E-04
148 UCART2	439253.2	3763061.16	439253.2, 3763061.16	4.74558	4.75139	0.06255		1.76E-05	1.19E-06	3.88E-04	0.00E+00	4.07E-04
149 UCART2	439303.2	3763061.16	439303.2, 3763061.16	4.81439	4.82516	0.06434		1.78E-05	1.21E-06	3.99E-04	0.00E+00	4.18E-04
150 UCART2	439353.2	3763061.16	439353.2, 3763061.16	5.369	5.31522	0.06496		1.99E-05	1.34E-06	4.03E-04	0.00E+00	4.24E-04
151 UCART2	439403.2	3763061.16	439403.2, 3763061.16	6.04724	5.92168	0.06428		2.24E-05	1.49E-06	3.99E-04	0.00E+00	4.22E-04
152 UCART2	439453.2	3763061.16	439453.2, 3763061.16	6.63395	6.4502	0.06204		2.45E-05	1.62E-06	3.85E-04	0.00E+00	4.11E-04
153 UCART2	439503.2	3763061.16	439503.2, 3763061.16	6.8568	6.85214	0.05815		2.54E-05	1.72E-06	3.61E-04	0.00E+00	3.88E-04
154 UCART2	439553.2	3763061.16	439553.2, 3763061.16	7.50083	7.35634	0.05245		2.78E-05	1.85E-06	3.25E-04	0.00E+00	3.55E-04
155 UCART3	439196	3762392.48	439196.01, 3762392.48	3.57531	3.72459	0.08895		1.32E-05	9.36E-07	5.52E-04	0.00E+00	5.66E-04
156 UCART3	439246	3762392.48	439246.01, 3762392.48	3.87015	4.03891	0.09792		1.43E-05	1.02E-06	6.07E-04	0.00E+00	6.22E-04
157 UCART3	439296	3762392.48	439296.01, 3762392.48	4.2043	4.39574	0.10837		1.56E-05	1.10E-06	6.72E-04	0.00E+00	6.89E-04
158 UCART3	439346	3762392.48	439346.01, 3762392.48	4.58625	4.80449	0.12065		1.70E-05	1.21E-06	7.48E-04	0.00E+00	7.66E-04
159 UCART3	439396	3762392.48	439396.01, 3762392.48	5.0253	5.27534	0.13527		1.86E-05	1.33E-06	8.39E-04	0.00E+00	8.59E-04
160 UCART3	439446	3762392.48	439446.01, 3762392.48	5.53192	5.81949	0.15286		2.05E-05	1.46E-06	9.48E-04	0.00E+00	9.70E-04
161 UCART3	439496	3762392.48	439496.01, 3762392.48	6.13033	6.465	0.17417		2.27E-05	1.63E-06	1.08E-03	0.00E+00	1.10E-03
162 UCART3	439546	3762392.48	439546.01, 3762392.48	6.84173	7.23542	0.20047		2.53E-05	1.82E-06	1.24E-03	0.00E+00	1.27E-03
163 UCART3	439196	3762442.48	439196.01, 3762442.48	3.66953	3.58766	0.07641		1.36E-05	9.02E-07	4.74E-04	0.00E+00	4.88E-04
164 UCART3	439246	3762442.48	439246.01, 3762442.48	4.01253	3.91886	0.08387		1.48E-05	9.85E-07	5.20E-04	0.00E+00	5.36E-04
165 UCART3	439296	3762442.48	439296.01, 3762442.48	4.41007	4.30284	0.09251		1.63E-05	1.08E-06	5.74E-04	0.00E+00	5.91E-04
166 UCART3	439346	3762442.48	439346.01, 3762442.48	4.86882	4.74492	0.10262		1.80E-05	1.19E-06	6.36E-04	0.00E+00	6.56E-04
167 UCART3	439396	3762442.48	439396.01, 3762442.48	5.40538	5.26189	0.11456		2.00E-05	1.32E-06	7.10E-04	0.00E+00	7.32E-04
168 UCART3	439446	3762442.48	439446.01, 3762442.48	6.03825	5.87142	0.12882		2.23E-05	1.48E-06	7.99E-04	0.00E+00	8.23E-04
169 UCART3	439496	3762442.48	439496.01, 3762442.48	6.78939	6.59447	0.14617		2.51E-05	1.66E-06	9.06E-04	0.00E+00	9.33E-04
170 UCART3	439546	3762442.48	439546.01, 3762442.48	7.69126	7.46297	0.16753		2.85E-05	1.88E-06	1.04E-03	0.00E+00	1.07E-03
171 UCART3	439196	3762492.48	439196.01, 3762492.48	4.08449	3.99219	0.07732		1.51E-05	1.00E-06	4.79E-04	0.00E+00	4.96E-04
172 UCART3	439246	3762492.48	439246.01, 3762492.48	4.47372	4.37095	0.08525		1.66E-05	1.10E-06	5.29E-04	0.00E+00	5.46E-04
173 UCART3	439296	3762492.48	439296.01, 3762492.48	4.92448	4.81054	0.09432		1.82E-05	1.21E-06	5.85E-04	0.00E+00	6.04E-04
174 UCART3	439346	3762492.48	439346.01, 3762492.48	5.44661	5.32045	0.10475		2.02E-05	1.34E-06	6.50E-04	0.00E+00	6.71E-04
175 UCART3	439396	3762492.48	439396.01, 3762492.48	6.05317	5.91362	0.11744		2.24E-05	1.49E-06	7.28E-04	0.00E+00	7.52E-04
176 UCART3	439446	3762492.48	439446.01, 3762492.48	6.76457	6.61105	0.13715		2.50E-05	1.66E-06	8.50E-04	0.00E+00	8.77E-04
177 UCART3	439496	3762492.48	439496.01, 3762492.48	7.61003	7.44498	0.16137		2.82E-05	1.87E-06	1.00E-03	0.00E+00	1.03E-03
178 UCART3	439546	3762492.48	439546.01, 3762492.48	8.61475	8.44042	0.19153		3.19E-05	2.12E-06	1.19E-03	0.00E+00	1.22E-03
179 UCART3	439196	3762542.48	439196.01, 3762542.48	4.45631	4.37277	0.08683		1.65E-05	1.10E-06	5.38E-04	0.00E+00	5.56E-04
180 UCART3	439246	3762542.48	439246.01, 3762542.48	4.87596	4.78728	0.09837		1.80E-05	1.20E-06	6.10E-04	0.00E+00	6.29E-04
181 UCART3	439296	3762542.48	439296.01, 3762542.48	5.3585	5.26628	0.11186		1.98E-05	1.32E-06	6.94E-04	0.00E+00	7.15E-04
182 UCART3	439346	3762542.48	439346.01, 3762542.48	5.91135	5.81681	0.12777		2.19E-05	1.46E-06	7.92E-04	0.00E+00	8.16E-04
183 UCART3	439396	3762542.48	439396.01, 3762542.48	6.55079	6.45818	0.14656		2.42E-05	1.62E-06	9.09E-04	0.00E+00	9.35E-04
184 UCART3	439446	3762542.48	439446.01, 3762542.48	7.28964	7.20367	0.16897		2.70E-05	1.81E-06	1.05E-03	0.00E+00	1.08E-03
185 UCART3	439496	3762542.48	439496.01, 3762542.48	8.1521	8.08303	0.1957		3.02E-05	2.03E-06	1.21E-03	0.00E+00	1.25E-03
186 UCART3	439546	3762542.48	439546.01, 3762542.48	9.15366	9.11326	0.22806		3.39E-05	2.29E-06	1.41E-03	0.00E+00	1.45E-03
187 UCART3	439196	3762592.48	439196.01, 3762592.48	4.73182	4.67628	0.10308		1.75E-05	1.18E-06	6.39E-04	0.00E+00	6.58E-04
188 UCART3	439246	3762592.48	439246.01, 3762592.48	5.15969	5.10863	0.11537		1.91E-05	1.28E-06	7.15E-04	0.00E+00	7.36E-04
189 UCART3	439296	3762592.48	439296.01, 3762592.48	5.64164	5.59809	0.12949		2.09E-05	1.41E-06	8.03E-04	0.00E+00	8.25E-04
190 UCART3	439346	3762592.48	439346.01, 3762592.48	6.18525	6.15352	0.14566		2.29E-05	1.55E-06	9.03E-04	0.00E+00	9.28E-04
191 UCART3	439396	3762592.48	439396.01, 3762592.48	6.80058	6.78858	0.16423		2.52E-05	1.71E-06	1.02E-03	0.00E+00	1.05E-03
192 UCART3	439446	3762592.48	439446.01, 3762592.48	7.49792	7.51698	0.18551		2.77E-05	1.89E-06	1.15E-03	0.00E+00	1.18E-03
193 UCART3	439496	3762592.48	439496.01, 3762592.48	8.28782	8.35475	0.2098		3.07E-05	2.10E-06	1.30E-03	0.00E+00	1.33E-03
194 UCART3	439546	3762592.48	439546.01, 3762592.48	9.17462	9.30922	0.23775		3.39E-05	2.34E-06	1.47E-03	0.00E+00	1.51E-03
195 UCART3	439196	3762642.48	439196.01, 3762642.48	4.87449	4.86009	0.11286		1.80E-05	1.22E-06	7.00E-04	0.00E+00	7.19E-04
196 UCART3	439246	3762642.48	439246.01, 3762642.48	5.27919	5.27911	0.1243		1.95E-05	1.33E-06	7.71E-04	0.00E+00	7.92E-04
197 UCART3	439296	3762642.48	439296.01, 3762642.48	5.72651	5.74468	0.13704		2.12E-05	1.44E-06	8.50E-04	0.00E+00	8.72E-04
198 UCART3	439346	3762642.48	439346.01, 3762642.48	6.21847	6.26194	0.15103		2.30E-05	1.57E-06	9.36E-04	0.00E+00	9.61E-04
199 UCART3	439396	3762642.48	439396.01, 3762642.48	6.7621	6.84291	0.16624		2.50E-05	1.72E-06	1.03E-03	0.00E+00	1.06E-03
200 UCART3	439446	3762642.48	439446.01, 3762642.48	7.35648	7.48834	0.18268		2.72E-05	1.88E-06	1.13E-03	0.00E+00	1.16E-03
201 UCART3	439496	3762642.48	439496.01, 3762642.48	8.00086	8.20399	0.20016		2.96E-05	2.06E-06	1.24E-03	0.00E+00	1.27E-03
202 UCART3	439546	3762642.48	439546.01, 3762642.48	8.69183	8.98764	0.21867		3.22E-05	2.26E-06	1.36E-03	0.00E+00	1.39E-03
203 UCART3	439196	3762692.48	439196.01, 3762692.48	4.8703	4.90203	0.11437		1.80E-05	1.23E-06	7.09E-04	0.00E+00	7.28E-04
204 UCART3	439246	3762692.48	439246.01, 3762692.48	5.22706	5.28054	0.12346		1.93E-05	1.33E-06	7.66E-04	0.00E+00	7.86E-04
205 UCART3	439296	3762692.48	439296.01, 3762692.48	5.61113	5.6937	0.13292		2.08E-05	1.43E-06	8.24E-04	0.00E+00	8.46E-04
206 UCART3	439346	3762692.48	439346.01, 3762692.48	6.02206	6.14133	0.14271		2.23E-05	1.54E-06	8.85E-04	0.00E+00	9.09E-04
207 UCART3	439396	3762692.48	439396.01, 3762692.48	6.45724	6.62252	0.15266		2.39E-05	1.66E-06	9.47E-04	0.00E+00	9.72E-04

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s Onsite Running	Onsite Idle	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3] Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
208	UCART3	439446	3762692.48	439446.01, 3762692.48	6.91096	7.1382	0.16229		2.56E-05	1.79E-06	1.01E-03	0.00E+00	1.03E-03
209	UCART3	439496	3762692.48	439496.01, 3762692.48	7.37483	7.68263	0.17119		2.73E-05	1.93E-06	1.06E-03	0.00E+00	1.09E-03
210	UCART3	439546	3762692.48	439546.01, 3762692.48	7.84209	8.24803	0.17896		2.90E-05	2.07E-06	1.11E-03	0.00E+00	1.14E-03
211	UCART3	439196	3762742.48	439196.01, 3762742.48	4.72766	4.80213	0.10763		1.75E-05	1.21E-06	6.67E-04	0.00E+00	6.86E-04
212	UCART3	439246	3762742.48	439246.01, 3762742.48	5.02024	5.1213	0.1134		1.86E-05	1.29E-06	7.03E-04	0.00E+00	7.23E-04
213	UCART3	439296	3762742.48	439296.01, 3762742.48	5.32269	5.45844	0.11888		1.97E-05	1.37E-06	7.37E-04	0.00E+00	7.58E-04
214	UCART3	439346	3762742.48	439346.01, 3762742.48	5.63373	5.81148	0.12383		2.08E-05	1.46E-06	7.68E-04	0.00E+00	7.90E-04
215	UCART3	439396	3762742.48	439396.01, 3762742.48	5.94618	6.17562	0.12796		2.20E-05	1.55E-06	7.93E-04	0.00E+00	8.17E-04
216	UCART3	439446	3762742.48	439446.01, 3762742.48	6.25235	6.54482	0.13088		2.31E-05	1.65E-06	8.12E-04	0.00E+00	8.36E-04
217	UCART3	439496	3762742.48	439496.01, 3762742.48	6.72622	6.90806	0.13395		2.49E-05	1.74E-06	8.31E-04	0.00E+00	8.57E-04
218	UCART3	439546	3762742.48	439546.01, 3762742.48	7.54359	7.54531	0.15089		2.79E-05	1.90E-06	9.36E-04	0.00E+00	9.65E-04
219	UCART3	439196	3762792.48	439196.01, 3762792.48	4.47005	4.57938	0.09429		1.65E-05	1.15E-06	5.85E-04	0.00E+00	6.02E-04
220	UCART3	439246	3762792.48	439246.01, 3762792.48	4.6917	4.82991	0.09679		1.74E-05	1.21E-06	6.00E-04	0.00E+00	6.19E-04
221	UCART3	439296	3762792.48	439296.01, 3762792.48	4.90676	5.0816	0.09834		1.82E-05	1.28E-06	6.10E-04	0.00E+00	6.29E-04
222	UCART3	439346	3762792.48	439346.01, 3762792.48	5.11543	5.33316	0.09891		1.89E-05	1.34E-06	6.13E-04	0.00E+00	6.34E-04
223	UCART3	439396	3762792.48	439396.01, 3762792.48	5.58409	5.57843	0.10591		2.07E-05	1.40E-06	6.57E-04	0.00E+00	6.79E-04
224	UCART3	439446	3762792.48	439446.01, 3762792.48	6.18628	6.16931	0.11601		2.29E-05	1.55E-06	7.19E-04	0.00E+00	7.44E-04
225	UCART3	439496	3762792.48	439496.01, 3762792.48	6.81656	6.84211	0.12833		2.52E-05	1.72E-06	7.96E-04	0.00E+00	8.23E-04
226	UCART3	439546	3762792.48	439546.01, 3762792.48	7.46276	7.55368	0.14224		2.76E-05	1.90E-06	8.82E-04	0.00E+00	9.11E-04
227	UCART3	439196	3762842.48	439196.01, 3762842.48	4.12917	4.26421	0.07709		1.53E-05	1.07E-06	4.78E-04	0.00E+00	4.94E-04
228	UCART3	439246	3762842.48	439246.01, 3762842.48	4.30027	4.44392	0.07877		1.59E-05	1.12E-06	4.88E-04	0.00E+00	5.05E-04
229	UCART3	439296	3762842.48	439296.01, 3762842.48	4.72914	4.68781	0.08567		1.75E-05	1.18E-06	5.31E-04	0.00E+00	5.50E-04
230	UCART3	439346	3762842.48	439346.01, 3762842.48	5.18649	5.16066	0.09206		1.92E-05	1.30E-06	5.71E-04	0.00E+00	5.91E-04
231	UCART3	439396	3762842.48	439396.01, 3762842.48	5.66366	5.66437	0.10023		2.10E-05	1.42E-06	6.21E-04	0.00E+00	6.44E-04
232	UCART3	439446	3762842.48	439446.01, 3762842.48	6.1493	6.19082	0.10992		2.28E-05	1.56E-06	6.82E-04	0.00E+00	7.06E-04
233	UCART3	439496	3762842.48	439496.01, 3762842.48	6.61979	6.72039	0.12257		2.45E-05	1.69E-06	7.60E-04	0.00E+00	7.86E-04
234	UCART3	439546	3762842.48	439546.01, 3762842.48	7.05496	7.23506	0.13452		2.61E-05	1.82E-06	8.34E-04	0.00E+00	8.62E-04
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	8.85003	8.62628	0.1878		3.27E-05	2.17E-06	1.16E-03	0.00E+00	1.20E-03
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	10.162	9.91821	0.22782		3.76E-05	2.49E-06	1.41E-03	0.00E+00	1.45E-03
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	11.77265	11.51494	0.28027		4.36E-05	2.89E-06	1.74E-03	0.00E+00	1.78E-03
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	13.77482	13.51705	0.34992		5.10E-05	3.40E-06	2.17E-03	0.00E+00	2.22E-03
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	16.30395	16.07932	0.44326		6.03E-05	4.04E-06	2.75E-03	0.00E+00	2.81E-03
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	19.53657	19.40783	0.56978		7.23E-05	4.88E-06	3.53E-03	0.00E+00	3.61E-03
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	23.75579	23.86043	0.74378		8.79E-05	6.00E-06	4.61E-03	0.00E+00	4.71E-03
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	9.60511	9.50782	0.2356		3.55E-05	2.39E-06	1.46E-03	0.00E+00	1.50E-03
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	10.9328	10.87353	0.2805		4.05E-05	2.73E-06	1.74E-03	0.00E+00	1.78E-03
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	12.52239	12.5343	0.33699		4.63E-05	3.15E-06	2.09E-03	0.00E+00	2.14E-03
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	14.43002	14.5669	0.40867		5.34E-05	3.66E-06	2.53E-03	0.00E+00	2.59E-03
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	16.72478	17.07193	0.49951		6.19E-05	4.29E-06	3.10E-03	0.00E+00	3.16E-03
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	19.48346	20.17346	0.61425		7.21E-05	5.07E-06	3.81E-03	0.00E+00	3.89E-03
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	22.81728	24.09532	0.75634		8.44E-05	6.06E-06	4.69E-03	0.00E+00	4.78E-03
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	9.80641	9.90096	0.25622		3.63E-05	2.49E-06	1.59E-03	0.00E+00	1.63E-03
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	10.97814	11.17277	0.29562		4.06E-05	2.81E-06	1.83E-03	0.00E+00	1.88E-03
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	12.31199	12.65809	0.34189		4.56E-05	3.18E-06	2.12E-03	0.00E+00	2.17E-03
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	13.82007	14.38717	0.39609		5.11E-05	3.62E-06	2.46E-03	0.00E+00	2.51E-03
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	15.50567	16.39273	0.45795		5.74E-05	4.12E-06	2.84E-03	0.00E+00	2.90E-03
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	17.35328	18.69612	0.52533		6.42E-05	4.70E-06	3.26E-03	0.00E+00	3.33E-03
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	19.30032	21.30301	0.59233		7.14E-05	5.35E-06	3.67E-03	0.00E+00	3.75E-03
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	9.41632	9.70389	0.24368		3.48E-05	2.44E-06	1.51E-03	0.00E+00	1.55E-03
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	10.30432	10.73015	0.26945		3.81E-05	2.70E-06	1.67E-03	0.00E+00	1.71E-03
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	11.2482	11.85874	0.29633		4.16E-05	2.98E-06	1.84E-03	0.00E+00	1.88E-03
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	12.22565	13.08105	0.3231		4.52E-05	3.29E-06	2.00E-03	0.00E+00	2.05E-03
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	13.39939	14.37463	0.34729		4.96E-05	3.61E-06	2.15E-03	0.00E+00	2.21E-03
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	15.73415	16.09515	0.38687		5.82E-05	4.05E-06	2.40E-03	0.00E+00	2.46E-03
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	18.26107	19.09435	0.4594		6.76E-05	4.80E-06	2.85E-03	0.00E+00	2.92E-03
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	8.56279	8.9914	0.20452		3.17E-05	2.26E-06	1.27E-03	0.00E+00	1.30E-03
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	9.12679	9.69886	0.2147		3.38E-05	2.44E-06	1.33E-03	0.00E+00	1.37E-03
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	10.11593	10.41931	0.22334		3.74E-05	2.62E-06	1.38E-03	0.00E+00	1.42E-03
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	11.58767	11.75117	0.2598		4.29E-05	2.95E-06	1.61E-03	0.00E+00	1.66E-03
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	13.14733	13.53786	0.29887		4.87E-05	3.40E-06	1.85E-03	0.00E+00	1.91E-03
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	14.69354	15.43278	0.35113		5.44E-05	3.88E-06	2.18E-03	0.00E+00	2.24E-03
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	16.83288	17.27094	0.39783		6.23E-05	4.34E-06	2.47E-03	0.00E+00	2.53E-03
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	2.99714	2.86012	0.07983		1.11E-05	7.19E-07	4.95E-04	0.00E+00	5.07E-04
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	3.02582	2.86205	0.08091		1.12E-05	7.19E-07	5.02E-04	0.00E+00	5.14E-04
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	3.0257	2.98426	0.08161		1.12E-05	7.50E-07	5.06E-04	0.00E+00	5.18E-04
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	3.21493	3.17554	0.08178		1.19E-05	7.98E-07	5.07E-04	0.00E+00	5.20E-04
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	3.42105	3.34627	0.08137		1.27E-05	8.41E-07	5.05E-04	0.00E+00	5.18E-04
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	3.59736	3.48591	0.08027		1.33E-05	8.76E-07	4.98E-04	0.00E+00	5.12E-04
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	3.73074	3.58347	0.07848		1.38E-05	9.01E-07	4.87E-04	0.00E+00	5.01E-04
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	3.82136	3.64116	0.07598		1.41E-05	9.15E-07	4.71E-04	0.00E+00	4.86E-04
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	3.84197	3.63391	0.07371		1.42E-05	9.13E-07	4.57E-04	0.00E+00	4.72E-04
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	3.16093	3.046	0.08106		1.17E-05	7.66E-07	5.03E-04	0.00E+00	5.15E-04
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	3.24549	3.09846	0.08281		1.20E-05	7.79E-07	5.13E-04	0.00E+00	5.26E-04
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	3.30307	3.12405	0.0842		1.22E-05	7.85E-07	5.22E-04	0.00E+00	5.35E-04
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	3.3004	3.24711	0.08505		1.22E-05	8.16E-07	5.27E-04	0.00E+00	5.40E-04
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	3.50092	3.4588	0.08534		1.30E-05	8.69E-07	5.29E-04	0.00E+00	5.43E-04
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	3.73028	3.6467	0.08501		1.38E-05	9.17E-07	5.27E-04	0.00E+00	5.42E-04
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	3.92403	3.79729	0.08393		1.45E-05	9.54E-07	5.20E-04	0.00E+00	5.36E-04
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	4.08465	3.91547	0.08212		1.51E-05	9.84E-07	5.09E-04	0.00E+00	5.25E-04
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	4.17413	3.96603	0.07947		1.54E-05	9.97E-07	4.93E-04	0.00E+00	5.09E-04
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	3.28997	3.20466	0.08166		1.22E-05	8.06E-07	5.06E-04	0.00E+00	5.19E-04
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	3.42103	3.30056	0.08404		1.27E-05	8.30E-07	5.21E-04	0.00E+00	5.35E-04
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	3.52917	3.37121	0.08612		1.31E-05	8.47E-07	5.34E-04	0.00E+00	5.48E-04
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	3.58527	3.38966	0.08771		1.33E-05	8.52E-07	5.44E-04	0.00E+00	5.58E-04
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	3.59028	3.51776	0.08883		1.33E-05	8.84E-07	5.51E-04	0.00E+00	5.65E-04
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	3.81331	3.7676	0.08938		1.41E-05	9.47E-07	5.54E-04	0.00E+00	5.69E-04
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	4.08076	3.98643	0.08923		1.51E-05	1.00E-06	5.53E-04	0.00E+00	5.69E-04
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	4.30937	4.16379	0.08826		1.59E-05	1.05E-06	5.47E-04	0.00E+00	5.64E-04
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	4.48506	4.28878	0.08643		1.66E-05	1.08E-06	5.36E-04	0.00E+00	5.54E-04
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	3.38129	3.33101	0.08153		1.25E-05	8.37E-07	5.06E-04	0.00E+00	5.19E-04
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	3.55326	3.46755	0.08455		1.31E-05	8.72E-07	5.24E-04	0.00E+00	5.38E-04
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	3.7145	3.58853	0.08734		1.37E-05	9.02E-07	5.42E-04	0.00E+00	5.56E-04
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	3.84167	3.67188	0.08979		1.42E-05	9.23E-07	5.57E-04	0.00E+00	5.72E-04
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	3.91473	3.70016	0.09178		1.45E-05	9.30E-07	5.69E-04	0.00E+00	5.84E-04
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	3.94607	3.85305	0.09332		1.46E-05	9.69E-07	5.79E-04	0.00E+00	5.94E-04
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	4.19496	4.14553	0.0942		1.55E-05	1.04E-06	5.84E-04	0.00E+00	6.01E-04
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	4.50029	4.39284	0.0943		1.67E-05	1.10E-06	5.85E-04	0.00E+00	6.02E-04
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	4.77327	4.60412	0.09351		1.77E-05	1.16E-06	5.80E-04	0.00E+00	5.99E-04
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	3.4336	3.42048	0.08059		1.27E-05	8.60E-07	5.00E-04	0.00E+00	5.13E-04
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	3.64823	3.60281	0.08427		1.35E-05	9.06E-07	5.23E-04	0.00E+00	5.37E-04
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	3.86173	3.77684	0.08782		1.43E-05	9.49E-07	5.45E-04	0.00E+00	5.60E-04
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	4.05553	3.92433	0.09111		1.50E-05	9.86E-07	5.65E-04	0.00E+00	5.81E-04
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	4.20967	4.02694	0.09407		1.56E-05	1.01E-06	5.83E-04	0.00E+00	6.00E-04
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	4.32373	4.08682	0.09664		1.60E-05	1.03E-06	5.99E-04	0.00E+00	6.16E-04
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	4.36896	4.25102	0.09867		1.62E-05	1.07E-06	6.12E-04	0.00E+00	6.29E-04

Discrete Receptor ID	X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s Onsite Running	Onsite Idle	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3] Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
313 UCART5	439502.4	3761648.92	439502.35, 3761648.92	4.64772	4.59404	0.10003		1.72E-05	1.15E-06	6.20E-04	0.00E+00	6.39E-04
314 UCART5	439552.4	3761648.92	439552.35, 3761648.92	5.01956	4.89602	0.10055		1.86E-05	1.23E-06	6.23E-04	0.00E+00	6.43E-04
315 UCART5	439152.4	3761698.92	439152.35, 3761698.92	3.66072	3.51174	0.07879		1.35E-05	8.83E-07	4.89E-04	0.00E+00	5.03E-04
316 UCART5	439202.4	3761698.92	439202.35, 3761698.92	3.76026	3.69575	0.08308		1.39E-05	9.29E-07	5.15E-04	0.00E+00	5.30E-04
317 UCART5	439252.4	3761698.92	439252.35, 3761698.92	3.94867	3.90997	0.08732		1.46E-05	9.83E-07	5.41E-04	0.00E+00	5.57E-04
318 UCART5	439302.4	3761698.92	439302.35, 3761698.92	4.20393	4.12122	0.09149		1.56E-05	1.04E-06	5.67E-04	0.00E+00	5.84E-04
319 UCART5	439352.4	3761698.92	439352.35, 3761698.92	4.44476	4.30888	0.09548		1.64E-05	1.08E-06	5.92E-04	0.00E+00	6.10E-04
320 UCART5	439402.4	3761698.92	439402.35, 3761698.92	4.65561	4.45876	0.09918		1.72E-05	1.12E-06	6.15E-04	0.00E+00	6.33E-04
321 UCART5	439452.4	3761698.92	439452.35, 3761698.92	4.78666	4.52437	0.10243		1.77E-05	1.14E-06	6.35E-04	0.00E+00	6.54E-04
322 UCART5	439502.4	3761698.92	439502.35, 3761698.92	4.86954	4.71971	0.10521		1.80E-05	1.19E-06	6.52E-04	0.00E+00	6.72E-04
323 UCART5	439552.4	3761698.92	439552.35, 3761698.92	5.18821	5.12958	0.10724		1.92E-05	1.29E-06	6.65E-04	0.00E+00	6.85E-04
324 UCART5	439152.4	3761748.92	439152.35, 3761748.92	3.85331	3.73461	0.07608		1.43E-05	9.39E-07	4.72E-04	0.00E+00	4.87E-04
325 UCART5	439202.4	3761748.92	439202.35, 3761748.92	4.01831	3.86675	0.08092		1.49E-05	9.72E-07	5.02E-04	0.00E+00	5.18E-04
326 UCART5	439252.4	3761748.92	439252.35, 3761748.92	4.15083	4.00335	0.08583		1.54E-05	1.01E-06	5.32E-04	0.00E+00	5.49E-04
327 UCART5	439302.4	3761748.92	439302.35, 3761748.92	4.30092	4.27163	0.09085		1.59E-05	1.07E-06	5.63E-04	0.00E+00	5.80E-04
328 UCART5	439352.4	3761748.92	439352.35, 3761748.92	4.60388	4.52552	0.09581		1.70E-05	1.14E-06	5.94E-04	0.00E+00	6.12E-04
329 UCART5	439402.4	3761748.92	439402.35, 3761748.92	4.89605	4.75644	0.10067		1.81E-05	1.20E-06	6.24E-04	0.00E+00	6.44E-04
330 UCART5	439452.4	3761748.92	439452.35, 3761748.92	5.14396	4.93211	0.10529		1.90E-05	1.24E-06	6.53E-04	0.00E+00	6.73E-04
331 UCART5	439502.4	3761748.92	439502.35, 3761748.92	5.32809	5.03653	0.10956		1.97E-05	1.27E-06	6.79E-04	0.00E+00	7.00E-04
332 UCART5	439552.4	3761748.92	439552.35, 3761748.92	5.45049	5.25675	0.11337		2.02E-05	1.32E-06	7.03E-04	0.00E+00	7.24E-04
333 UCART5	439152.4	3761798.92	439152.35, 3761798.92	3.98225	3.9059	0.07255		1.47E-05	9.82E-07	4.50E-04	0.00E+00	4.66E-04
334 UCART5	439202.4	3761798.92	439202.35, 3761798.92	4.21303	4.10208	0.07781		1.56E-05	1.03E-06	4.82E-04	0.00E+00	4.99E-04
335 UCART5	439252.4	3761798.92	439252.35, 3761798.92	4.424	4.27405	0.08331		1.64E-05	1.07E-06	5.17E-04	0.00E+00	5.34E-04
336 UCART5	439302.4	3761798.92	439302.35, 3761798.92	4.6352	4.44299	0.08907		1.72E-05	1.12E-06	5.52E-04	0.00E+00	5.71E-04
337 UCART5	439352.4	3761798.92	439352.35, 3761798.92	4.79521	4.68921	0.09496		1.77E-05	1.18E-06	5.89E-04	0.00E+00	6.08E-04
338 UCART5	439402.4	3761798.92	439402.35, 3761798.92	5.06761	4.99648	0.10098		1.88E-05	1.26E-06	6.26E-04	0.00E+00	6.46E-04
339 UCART5	439452.4	3761798.92	439452.35, 3761798.92	5.4349	5.29331	0.10704		2.01E-05	1.33E-06	6.64E-04	0.00E+00	6.85E-04
340 UCART5	439502.4	3761798.92	439502.35, 3761798.92	5.73463	5.50682	0.11296		2.12E-05	1.38E-06	7.00E-04	0.00E+00	7.23E-04
341 UCART5	439552.4	3761798.92	439552.35, 3761798.92	6.01286	5.68638	0.11868		2.23E-05	1.43E-06	7.36E-04	0.00E+00	7.60E-04
342 UCART5	439152.4	3761848.92	439152.35, 3761848.92	4.03773	4.01237	0.06824		1.49E-05	1.01E-06	4.23E-04	0.00E+00	4.39E-04
343 UCART5	439202.4	3761848.92	439202.35, 3761848.92	4.32121	4.26376	0.07377		1.60E-05	1.07E-06	4.57E-04	0.00E+00	4.74E-04
344 UCART5	439252.4	3761848.92	439252.35, 3761848.92	4.59633	4.49979	0.07968		1.70E-05	1.13E-06	4.94E-04	0.00E+00	5.12E-04
345 UCART5	439302.4	3761848.92	439302.35, 3761848.92	4.88321	4.74127	0.08604		1.81E-05	1.19E-06	5.33E-04	0.00E+00	5.53E-04
346 UCART5	439352.4	3761848.92	439352.35, 3761848.92	5.13896	4.94575	0.09277		1.90E-05	1.24E-06	5.75E-04	0.00E+00	5.95E-04
347 UCART5	439402.4	3761848.92	439402.35, 3761848.92	5.40804	5.18455	0.09994		2.00E-05	1.30E-06	6.20E-04	0.00E+00	6.41E-04
348 UCART5	439452.4	3761848.92	439452.35, 3761848.92	5.6265	5.56705	0.10738		2.08E-05	1.40E-06	6.66E-04	0.00E+00	6.88E-04
349 UCART5	439502.4	3761848.92	439502.35, 3761848.92	6.04284	5.90156	0.11501		2.24E-05	1.48E-06	7.13E-04	0.00E+00	7.37E-04
350 UCART5	439552.4	3761848.92	439552.35, 3761848.92	6.48066	6.23621	0.12283		2.40E-05	1.57E-06	7.62E-04	0.00E+00	7.87E-04
351 UCART5	439152.4	3761898.92	439152.35, 3761898.92	4.01734	4.047	0.06316		1.49E-05	1.02E-06	3.92E-04	0.00E+00	4.08E-04
352 UCART5	439202.4	3761898.92	439202.35, 3761898.92	4.34008	4.34406	0.06886		1.61E-05	1.09E-06	4.27E-04	0.00E+00	4.44E-04
353 UCART5	439252.4	3761898.92	439252.35, 3761898.92	4.67216	4.64221	0.07506		1.73E-05	1.17E-06	4.65E-04	0.00E+00	4.84E-04
354 UCART5	439302.4	3761898.92	439302.35, 3761898.92	5.04892	4.97708	0.08186		1.87E-05	1.25E-06	5.08E-04	0.00E+00	5.28E-04
355 UCART5	439352.4	3761898.92	439352.35, 3761898.92	5.41057	5.28647	0.08928		2.00E-05	1.33E-06	5.54E-04	0.00E+00	5.75E-04
356 UCART5	439402.4	3761898.92	439402.35, 3761898.92	5.77029	5.58445	0.09733		2.14E-05	1.40E-06	6.03E-04	0.00E+00	6.26E-04
357 UCART5	439452.4	3761898.92	439452.35, 3761898.92	6.14131	5.88512	0.10608		2.27E-05	1.48E-06	6.58E-04	0.00E+00	6.82E-04
358 UCART5	439502.4	3761898.92	439502.35, 3761898.92	6.45325	6.25847	0.11545		2.39E-05	1.57E-06	7.16E-04	0.00E+00	7.41E-04
359 UCART5	439552.4	3761898.92	439552.35, 3761898.92	6.86182	6.72658	0.12534		2.54E-05	1.69E-06	7.77E-04	0.00E+00	8.04E-04
360 UCART5	439152.4	3761948.92	439152.35, 3761948.92	3.91388	3.99683	0.06261		1.45E-05	1.00E-06	3.88E-04	0.00E+00	4.04E-04
361 UCART5	439202.4	3761948.92	439202.35, 3761948.92	4.26297	4.32982	0.06373		1.58E-05	1.09E-06	3.95E-04	0.00E+00	4.12E-04
362 UCART5	439252.4	3761948.92	439252.35, 3761948.92	4.63545	4.67808	0.06944		1.72E-05	1.18E-06	4.31E-04	0.00E+00	4.49E-04
363 UCART5	439302.4	3761948.92	439302.35, 3761948.92	5.07646	5.08735	0.07654		1.88E-05	1.28E-06	4.75E-04	0.00E+00	4.95E-04
364 UCART5	439352.4	3761948.92	439352.35, 3761948.92	5.53023	5.49675	0.0844		2.05E-05	1.38E-06	5.23E-04	0.00E+00	5.45E-04
365 UCART5	439402.4	3761948.92	439402.35, 3761948.92	5.99096	5.89924	0.09318		2.22E-05	1.48E-06	5.78E-04	0.00E+00	6.01E-04
366 UCART5	439452.4	3761948.92	439452.35, 3761948.92	6.50361	6.34006	0.10301		2.41E-05	1.59E-06	6.39E-04	0.00E+00	6.64E-04
367 UCART5	439502.4	3761948.92	439502.35, 3761948.92	7.0002	6.74945	0.11454		2.59E-05	1.70E-06	7.10E-04	0.00E+00	7.38E-04
368 UCART5	439552.4	3761948.92	439552.35, 3761948.92	7.46662	7.11526	0.12581		2.76E-05	1.79E-06	7.80E-04	0.00E+00	8.10E-04
369 UCART5	439152.4	3761998.92	439152.35, 3761998.92	3.84592	3.86872	0.06563		1.42E-05	9.72E-07	4.07E-04	0.00E+00	4.22E-04
370 UCART5	439202.4	3761998.92	439202.35, 3761998.92	4.0954	4.22017	0.06739		1.52E-05	1.06E-06	4.18E-04	0.00E+00	4.34E-04
371 UCART5	439252.4	3761998.92	439252.35, 3761998.92	4.48999	4.60317	0.07154		1.66E-05	1.16E-06	4.44E-04	0.00E+00	4.61E-04
372 UCART5	439302.4	3761998.92	439302.35, 3761998.92	4.96947	5.06586	0.07603		1.84E-05	1.27E-06	4.71E-04	0.00E+00	4.91E-04
373 UCART5	439352.4	3761998.92	439352.35, 3761998.92	5.49199	5.55996	0.08146		2.03E-05	1.40E-06	5.05E-04	0.00E+00	5.27E-04
374 UCART5	439402.4	3761998.92	439402.35, 3761998.92	6.03231	6.0556	0.08855		2.23E-05	1.52E-06	5.49E-04	0.00E+00	5.73E-04
375 UCART5	439452.4	3761998.92	439452.35, 3761998.92	6.64402	6.60667	0.09894		2.46E-05	1.66E-06	6.13E-04	0.00E+00	6.40E-04
376 UCART5	439502.4	3761998.92	439502.35, 3761998.92	7.29344	7.17449	0.11524		2.70E-05	1.80E-06	7.15E-04	0.00E+00	7.43E-04
377 UCART5	439552.4	3761998.92	439552.35, 3761998.92	7.97454	7.75074	0.13193		2.95E-05	1.95E-06	8.18E-04	0.00E+00	8.49E-04
378 UCART5	439152.4	3762048.92	439152.35, 3762048.92	3.83022	3.82544	0.07452		1.42E-05	9.62E-07	4.62E-04	0.00E+00	4.77E-04
379 UCART5	439202.4	3762048.92	439202.35, 3762048.92	4.12534	4.10586	0.07759		1.53E-05	1.03E-06	4.81E-04	0.00E+00	4.97E-04
380 UCART5	439252.4	3762048.92	439252.35, 3762048.92	4.44413	4.45956	0.08067		1.64E-05	1.12E-06	5.00E-04	0.00E+00	5.18E-04
381 UCART5	439302.4	3762048.92	439302.35, 3762048.92	4.79249	4.93026	0.0837		1.77E-05	1.24E-06	5.19E-04	0.00E+00	5.38E-04
382 UCART5	439352.4	3762048.92	439352.35, 3762048.92	5.29036	5.45678	0.08999		1.96E-05	1.37E-06	5.58E-04	0.00E+00	5.79E-04
383 UCART5	439402.4	3762048.92	439402.35, 3762048.92	5.8904	6.0347	0.09697		2.18E-05	1.52E-06	6.01E-04	0.00E+00	6.25E-04
384 UCART5	439452.4	3762048.92	439452.35, 3762048.92	6.58302	6.69055	0.10413		2.44E-05	1.68E-06	6.46E-04	0.00E+00	6.72E-04
385 UCART5	439502.4	3762048.92	439502.35, 3762048.92	7.35494	7.40387	0.11503		2.72E-05	1.86E-06	7.13E-04	0.00E+00	7.42E-04
386 UCART5	439552.4	3762048.92	439552.35, 3762048.92	8.20424	8.16642	0.12786		3.04E-05	2.05E-06	7.93E-04	0.00E+00	8.25E-04
387 UCART6	439616.6	3761420.65	439616.61, 3761420.65	3.55298	3.34477	0.10949		1.31E-05	8.41E-07	6.79E-04	0.00E+00	6.93E-04
388 UCART6	439666.6	3761420.65	439666.61, 3761420.65	3.59222	3.3904	0.13439		1.33E-05	8.52E-07	8.33E-04	0.00E+00	8.47E-04
389 UCART6	439716.6	3761420.65	439716.61, 3761420.65	3.57618	3.37737	0.15651		1.32E-05	8.49E-07	9.70E-04	0.00E+00	9.85E-04
390 UCART6	439766.6	3761420.65	439766.61, 3761420.65	3.65164	3.52592	0.17219		1.35E-05	8.86E-07	1.07E-03	0.00E+00	1.08E-03
391 UCART6	439816.6	3761420.65	439816.61, 3761420.65	3.78191	3.59129	0.17807		1.40E-05	9.03E-07	1.10E-03	0.00E+00	1.12E-03
392 UCART6	439866.6	3761420.65	439866.61, 3761420.65	3.79153	3.65161	0.17214		1.40E-05	9.18E-07	1.07E-03	0.00E+00	1.08E-03
393 UCART6	439616.6	3761470.65	439616.61, 3761470.65	3.94354	3.70209	0.10267		1.46E-05	9.31E-07	6.37E-04	0.00E+00	6.52E-04
394 UCART6	439666.6	3761470.65	439666.61, 3761470.65	3.83561	3.64089	0.13099		1.42E-05	9.15E-07	8.12E-04	0.00E+00	8.27E-04
395 UCART6	439716.6	3761470.65	439716.61, 3761470.65	3.89228	3.6523	0.15845		1.44E-05	9.18E-07	9.82E-04	0.00E+00	9.98E-04
396 UCART6	439766.6	3761470.65	439766.61, 3761470.65	3.84941	3.73176	0.18078		1.42E-05	9.38E-07	1.12E-03	0.00E+00	1.14E-03
397 UCART6	439816.6	3761470.65	439816.61, 3761470.65	4.03443	3.85813	0.19363		1.49E-05	9.70E-07	1.20E-03	0.00E+00	1.22E-03
398 UCART6	439866.6	3761470.65	439866.61, 3761470.65	4.12563	3.91107	0.19346		1.53E-05	9.83E-07	1.20E-03	0.00E+00	1.22E-03
399 UCART6	439616.6	3761520.65	439616.61, 3761520.65	4.3525	4.09975	0.09376		1.61E-05	1.03E-06	5.81E-04	0.00E+00	5.98E-04
400 UCART6	439666.6	3761520.65	439666.61, 3761520.65	4.29479	4.01359	0.12477		1.59E-05	1.01E-06	7.74E-04	0.00E+00	7.91E-04
401 UCART6	439716.6	3761520.65	439716.61, 3761520.65	4.19713	3.97185	0.15721		1.55E-05	9.98E-07	9.75E-04	0.00E+00	9.91E-04
402 UCART6	439766.6	3761520.65	439766.61, 3761520.65	4.23101	3.9604	0.18672		1.57E-05	9.95E-07	1.16E-03	0.00E+00	1.17E-03
403 UCART6	439816.6	3761520.65	439816.61, 3761520.65	4.29607	4.14008	0.20786		1.59E-05	1.04E-06	1.29E-03	0.00E+00	1.31E-03
404 UCART6	439866.6	3761520.65	439866.61, 3761520.65	4.47698	4.23531	0.21544		1.66E-05	1.06E-06	1.34E-03	0.00E+00	1.35E-03
405 UCART6	439616.6	3761570.65	439616.61, 3761570.65	4.77554	4.52187	0.08626		1.77E-05	1.14E-06	5.35E-04	0.00E+00	5.54E-04
406 UCART6	439666.6	3761570.65	439666.61, 3761570.65	4.79129	4.49365	0.11563		1.77E-05	1.13E-06	7.17E-04	0.00E+00	7.36E-04
407 UCART6	439716.6	3761570.65	439716.61, 3761570.65	4.70554	4.37417	0.15242		1.74E-05	1.10E-06	9.45E-04	0.00E+00	9.64E-04
408 UCART6	439766.6	3761570.65	439766.61, 3761570.65	4.63284	4.35441	0.18913		1.71E-05	1.09E-06	1.17E-03	0.00E+00	1.19E-03
409 UCART6	439816.6	3761570.65	439816.61, 3761570.65	4.60238	4.44475	0.21963		1.70E-05	1.12E-06	1.36E-03	0.00E+00	1.38E-03
410 UCART6	439866.6	3761570.65	439866.61, 3761570.65	4.82986	4.60704	0.23714		1.79E-05	1.16E-06	1.47E-03	0.00E+00	1.49E-03
411 UCART7	440451.1	3762893.83	440451.14, 3762893.83	8.24378	8.90284	0.54775		3.05E-05	2.24E-06	3.40E-03	0.00E+00	3.43E-03
412 UCART7	440501.1	3762893.83	440501.14, 3762893.83	8.53419	9.31202	0.56694		3.16E-05	2.34E-06	3.52E-03	0.00E+00	3.55E-03
413 UCART7	440551.1	3762893.83	440551.14, 3762893.83	9.36107	9.90269	0.51532		3.46E-05	2.49E-06	3.20E-03	0.00E+00	3.23E-03
414 UCART7	440601.1	3762893.83	440601.14, 3762893.83	10.16406	11.29508	0.41883		3.76E-05	2.84E-06	2.60E-03	0.00E+00	2.64E-03
415 UCART7	440651.1	3762893.83	440651.14, 3762893.83	11.58349	12.25157	0.31052		4.29E-05	3.08E-06	1.93E-03	0.00E+00	1.97E-03
416 UCART7	440701.1	3762893.83	440701.14, 3762893.83	12.01065	12.23623	0.23438		4.44E-05	3.08E-06	1.45E-03	0.00E+00	1.50E-03
417 UCART7	440751.1	3762893.83	440751.14, 3762893.83	11.66817	11.28242	0.23601		4.32E-05	2.84E-06	1.46E-03	0.00E+00	1.51E-03

Discrete Receptor ID	X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s: Onsite Running	Onsite Idle	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3]: Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
418 UCART7	440801.1	3762893.83	440801.14, 3762893.83	10.70278	10.28119	0.22016		3.96E-05	2.58E-06	1.37E-03	0.00E+00	1.41E-03
419 UCART7	440851.1	3762893.83	440851.14, 3762893.83	9.32368	9.8006	0.19324		3.45E-05	2.46E-06	1.20E-03	0.00E+00	1.24E-03
420 UCART7	440451.1	3762943.83	440451.14, 3762943.83	7.30219	7.73203	0.42393		2.70E-05	1.94E-06	2.63E-03	0.00E+00	2.66E-03
421 UCART7	440501.1	3762943.83	440501.14, 3762943.83	7.48872	7.95647	0.4633		2.77E-05	2.00E-06	2.87E-03	0.00E+00	2.90E-03
422 UCART7	440551.1	3762943.83	440551.14, 3762943.83	8.02097	8.72167	0.4489		2.97E-05	2.19E-06	2.78E-03	0.00E+00	2.82E-03
423 UCART7	440601.1	3762943.83	440601.14, 3762943.83	8.86331	9.77704	0.3904		3.28E-05	2.46E-06	2.42E-03	0.00E+00	2.46E-03
424 UCART7	440651.1	3762943.83	440651.14, 3762943.83	9.73927	10.53784	0.31118		3.60E-05	2.65E-06	1.93E-03	0.00E+00	1.97E-03
425 UCART7	440701.1	3762943.83	440701.14, 3762943.83	10.53952	10.866	0.22994		3.90E-05	2.73E-06	1.43E-03	0.00E+00	1.47E-03
426 UCART7	440751.1	3762943.83	440751.14, 3762943.83	10.40866	10.5236	0.19511		3.85E-05	2.65E-06	1.21E-03	0.00E+00	1.25E-03
427 UCART7	440801.1	3762943.83	440801.14, 3762943.83	10.2679	10.05901	0.19588		3.80E-05	2.53E-06	1.21E-03	0.00E+00	1.26E-03
428 UCART7	440851.1	3762943.83	440851.14, 3762943.83	9.60049	9.22221	0.18442		3.55E-05	2.32E-06	1.14E-03	0.00E+00	1.18E-03
429 UCART8	441116.7	3763135.31	441116.67, 3763135.31	5.72979	6.11184	0.09268		2.12E-05	1.54E-06	5.75E-04	0.00E+00	5.97E-04
430 UCART8	441166.7	3763135.31	441166.67, 3763135.31	5.83337	6.12326	0.08495		2.16E-05	1.54E-06	5.27E-04	0.00E+00	5.50E-04
431 UCART8	441116.7	3763185.31	441116.67, 3763185.31	5.58846	5.36454	0.08925		2.07E-05	1.35E-06	5.53E-04	0.00E+00	5.75E-04
432 UCART8	441166.7	3763185.31	441166.67, 3763185.31	5.13763	5.4788	0.08284		1.90E-05	1.38E-06	5.14E-04	0.00E+00	5.34E-04
433 UCART8	441116.7	3763235.31	441116.67, 3763235.31	5.67011	5.47731	0.08309		2.10E-05	1.38E-06	5.15E-04	0.00E+00	5.38E-04
434 UCART8	441166.7	3763235.31	441166.67, 3763235.31	5.11361	4.87863	0.07938		1.89E-05	1.23E-06	4.92E-04	0.00E+00	5.12E-04
435 UCART8	441116.7	3763285.31	441116.67, 3763285.31	5.71613	5.60013	0.07828		2.12E-05	1.41E-06	4.85E-04	0.00E+00	5.08E-04
436 UCART8	441166.7	3763285.31	441166.67, 3763285.31	5.22298	5.04936	0.07402		1.93E-05	1.27E-06	4.59E-04	0.00E+00	4.80E-04
437 UCART8	441116.7	3763335.31	441116.67, 3763335.31	5.60788	5.57573	0.07437		2.08E-05	1.40E-06	4.61E-04	0.00E+00	4.83E-04
438 UCART8	441166.7	3763335.31	441166.67, 3763335.31	5.26664	5.1569	0.07062		1.95E-05	1.30E-06	4.38E-04	0.00E+00	4.59E-04
439 UCART8	441116.7	3763385.31	441116.67, 3763385.31	5.37879	5.42655	0.06785		1.99E-05	1.36E-06	4.21E-04	0.00E+00	4.42E-04
440 UCART8	441166.7	3763385.31	441166.67, 3763385.31	5.21318	5.16977	0.0675		1.93E-05	1.30E-06	4.19E-04	0.00E+00	4.39E-04
441 UCART8	441116.7	3763435.31	441116.67, 3763435.31	5.07663	5.19568	0.06234		1.88E-05	1.31E-06	3.87E-04	0.00E+00	4.07E-04
442 UCART8	441166.7	3763435.31	441166.67, 3763435.31	5.02747	5.05054	0.06207		1.86E-05	1.27E-06	3.85E-04	0.00E+00	4.05E-04
443 UCART9	440433.4	3762815.13	440433.43, 3762815.13	10.36617	11.34457	0.8062		3.84E-05	2.85E-06	5.00E-03	0.00E+00	5.04E-03
444 UCART9	440483.4	3762815.13	440483.43, 3762815.13	10.54696	12.07258	0.78689		3.90E-05	3.03E-06	4.88E-03	0.00E+00	4.92E-03
445 UCART9	440533.4	3762815.13	440533.43, 3762815.13	11.6533	13.40086	0.6604		4.31E-05	3.37E-06	4.09E-03	0.00E+00	4.14E-03
446 UCART9	440583.4	3762815.13	440583.43, 3762815.13	13.12368	14.44461	0.48832		4.86E-05	3.63E-06	3.03E-03	0.00E+00	3.08E-03
447 UCART9	440633.4	3762815.13	440633.43, 3762815.13	13.74853	14.0385	0.33002		5.09E-05	3.53E-06	2.05E-03	0.00E+00	2.10E-03
448 UCART9	440683.4	3762815.13	440683.43, 3762815.13	13.28779	12.96909	0.32497		4.92E-05	3.26E-06	2.01E-03	0.00E+00	2.07E-03
449 UCART9	440733.4	3762815.13	440733.43, 3762815.13	12.31571	12.39997	0.29217		4.56E-05	3.12E-06	1.81E-03	0.00E+00	1.86E-03
450 UCART9	440783.4	3762815.13	440783.43, 3762815.13	11.62972	12.05458	0.24486		4.30E-05	3.03E-06	1.52E-03	0.00E+00	1.56E-03
451 UCART9	440833.4	3762815.13	440833.43, 3762815.13	11.57135	12.12875	0.1945		4.28E-05	3.05E-06	1.21E-03	0.00E+00	1.25E-03
452 UCART9	440883.4	3762815.13	440883.43, 3762815.13	11.53251	11.67454	0.16361		4.27E-05	2.93E-06	1.01E-03	0.00E+00	1.06E-03
453 UCART9	440933.4	3762815.13	440933.43, 3762815.13	10.89266	10.71718	0.16506		4.03E-05	2.69E-06	1.02E-03	0.00E+00	1.07E-03
454 UCART9	440983.4	3762815.13	440983.43, 3762815.13	10.16152	9.91405	0.16016		3.76E-05	2.49E-06	9.93E-04	0.00E+00	1.03E-03
455 UCART9	440433.4	3762865.13	440433.43, 3762865.13	9.15684	9.51043	0.61251		3.39E-05	2.39E-06	3.80E-03	0.00E+00	3.83E-03
456 UCART9	440483.4	3762865.13	440483.43, 3762865.13	8.95144	10.05018	0.64398		3.31E-05	2.53E-06	3.99E-03	0.00E+00	4.03E-03
457 UCART9	440533.4	3762865.13	440533.43, 3762865.13	9.39989	10.6619	0.58686		3.48E-05	2.68E-06	3.64E-03	0.00E+00	3.68E-03
458 UCART9	440583.4	3762865.13	440583.43, 3762865.13	10.39351	12.12674	0.47417		3.85E-05	3.05E-06	2.94E-03	0.00E+00	2.98E-03
459 UCART9	440633.4	3762865.13	440633.43, 3762865.13	11.88567	13.0026	0.34646		4.40E-05	3.27E-06	2.15E-03	0.00E+00	2.20E-03
460 UCART9	440683.4	3762865.13	440683.43, 3762865.13	12.26841	12.83216	0.26547		4.54E-05	3.23E-06	1.65E-03	0.00E+00	1.69E-03
461 UCART9	440733.4	3762865.13	440733.43, 3762865.13	11.93962	11.92862	0.26212		4.42E-05	3.00E-06	1.63E-03	0.00E+00	1.67E-03
462 UCART9	440783.4	3762865.13	440783.43, 3762865.13	10.82859	10.90032	0.23922		4.01E-05	2.74E-06	1.48E-03	0.00E+00	1.53E-03
463 UCART9	440833.4	3762865.13	440833.43, 3762865.13	10.02668	10.29271	0.20521		3.71E-05	2.59E-06	1.27E-03	0.00E+00	1.31E-03
464 UCART9	440883.4	3762865.13	440883.43, 3762865.13	9.58475	10.08055	0.16775		3.55E-05	2.53E-06	1.04E-03	0.00E+00	1.08E-03
465 UCART9	440933.4	3762865.13	440933.43, 3762865.13	9.53806	9.7475	0.13832		3.53E-05	2.45E-06	8.58E-04	0.00E+00	8.95E-04
466 UCART9	440983.4	3762865.13	440983.43, 3762865.13	9.31833	9.31333	0.13203		3.45E-05	2.34E-06	8.19E-04	0.00E+00	8.55E-04
467 UCART10	441118.3	3762686.02	441118.27, 3762686.02	8.24818	8.14515	0.16811		3.05E-05	2.05E-06	1.04E-03	0.00E+00	1.07E-03
468 UCART10	441168.3	3762686.02	441168.27, 3762686.02	7.57909	7.83584	0.146		2.80E-05	1.97E-06	9.05E-04	0.00E+00	9.35E-04
469 UCART10	441118.3	3762736.02	441118.27, 3762736.02	7.86859	7.67942	0.17017		2.91E-05	1.93E-06	1.06E-03	0.00E+00	1.09E-03
470 UCART10	441168.3	3762736.02	441168.27, 3762736.02	7.37099	7.12665	0.15425		2.73E-05	1.79E-06	9.56E-04	0.00E+00	9.85E-04
471 UCART10	441118.3	3762786.02	441118.27, 3762786.02	8.09847	7.51279	0.15147		3.00E-05	1.89E-06	9.39E-04	0.00E+00	9.71E-04
472 UCART10	441168.3	3762786.02	441168.27, 3762786.02	7.27499	6.82252	0.14475		2.69E-05	1.71E-06	8.98E-04	0.00E+00	9.26E-04
473 UCART10	441118.3	3762836.02	441118.27, 3762836.02	8.13284	7.72476	0.12799		3.01E-05	1.94E-06	7.94E-04	0.00E+00	8.26E-04
474 UCART10	441168.3	3762836.02	441168.27, 3762836.02	7.45195	7.01351	0.12143		2.76E-05	1.76E-06	7.53E-04	0.00E+00	7.82E-04
475 UCART11	440411.7	3762093.41	440411.67, 3762093.41	26.13586	23.86298	0.73219		9.67E-05	6.00E-06	4.54E-03	0.00E+00	4.64E-03
476 UCART11	440461.7	3762093.41	440461.67, 3762093.41	23.70395	21.4217	0.65082		8.77E-05	5.38E-06	4.04E-03	0.00E+00	4.13E-03
477 UCART11	440511.7	3762093.41	440511.67, 3762093.41	19.27606	17.2877	0.59958		7.13E-05	4.35E-06	3.72E-03	0.00E+00	3.79E-03
478 UCART11	440561.7	3762093.41	440561.67, 3762093.41	15.46486	13.83326	0.53364		5.72E-05	3.48E-06	3.31E-03	0.00E+00	3.37E-03
479 UCART11	440611.7	3762093.41	440611.67, 3762093.41	12.65944	11.40569	0.44228		4.68E-05	2.87E-06	2.74E-03	0.00E+00	2.79E-03
480 UCART11	440411.7	3762143.41	440411.67, 3762143.41	33.42308	30.13575	0.99778		1.24E-04	7.57E-06	6.19E-03	0.00E+00	6.32E-03
481 UCART11	440461.7	3762143.41	440461.67, 3762143.41	27.32143	24.26724	0.87381		1.01E-04	6.10E-06	5.42E-03	0.00E+00	5.53E-03
482 UCART11	440511.7	3762143.41	440511.67, 3762143.41	21.64766	18.96046	0.76932		8.01E-05	4.77E-06	4.77E-03	0.00E+00	4.86E-03
483 UCART11	440561.7	3762143.41	440561.67, 3762143.41	17.2646	15.21421	0.61989		6.39E-05	3.82E-06	3.84E-03	0.00E+00	3.91E-03
484 UCART11	440611.7	3762143.41	440611.67, 3762143.41	15.65591	13.69449	0.49229		5.79E-05	3.44E-06	3.05E-03	0.00E+00	3.11E-03
485 UCART12	440406.6	3762008.86	440406.61, 3762008.86	19.9375	18.18806	0.48463		7.38E-05	4.57E-06	3.00E-03	0.00E+00	3.08E-03
486 UCART12	440456.6	3762008.86	440456.61, 3762008.86	17.65219	16.27319	0.4491		6.53E-05	4.09E-06	2.78E-03	0.00E+00	2.85E-03
487 UCART12	440506.6	3762008.86	440506.61, 3762008.86	16.44464	15.03885	0.41006		6.09E-05	3.78E-06	2.54E-03	0.00E+00	2.61E-03
488 UCART12	440556.6	3762008.86	440556.61, 3762008.86	14.0021	12.77101	0.36613		5.18E-05	3.21E-06	2.27E-03	0.00E+00	2.33E-03
489 UCART12	440606.6	3762008.86	440606.61, 3762008.86	11.29889	10.33648	0.34495		4.18E-05	2.60E-06	2.14E-03	0.00E+00	2.18E-03
490 UCART12	440656.6	3762008.86	440656.61, 3762008.86	9.41808	8.65748	0.30554		3.49E-05	2.18E-06	1.89E-03	0.00E+00	1.93E-03
491 UCART12	440706.6	3762008.86	440706.61, 3762008.86	8.18989	7.54331	0.25904		3.03E-05	1.90E-06	1.61E-03	0.00E+00	1.64E-03
492 UCART12	440756.6	3762008.86	440756.61, 3762008.86	8.01818	7.32793	0.21301		2.97E-05	1.84E-06	1.32E-03	0.00E+00	1.35E-03
493 UCART12	440806.6	3762008.86	440806.61, 3762008.86	7.75696	7.00883	0.20175		2.87E-05	1.76E-06	1.25E-03	0.00E+00	1.28E-03
494 UCART12	440856.6	3762008.86	440856.61, 3762008.86	7.90408	7.14927	0.19032		2.92E-05	1.80E-06	1.18E-03	0.00E+00	1.21E-03
495 UCART12	440906.6	3762008.86	440906.61, 3762008.86	7.93084	7.18869	0.17732		2.93E-05	1.81E-06	1.10E-03	0.00E+00	1.13E-03
496 UCART12	440956.6	3762008.86	440956.61, 3762008.86	7.73951	7.05851	0.16393		2.86E-05	1.77E-06	1.02E-03	0.00E+00	1.05E-03
497 UCART12	441006.6	3762008.86	441006.61, 3762008.86	7.42552	6.82049	0.15065		2.75E-05	1.71E-06	9.34E-04	0.00E+00	9.63E-04
498 UCART12	441056.6	3762008.86	441056.61, 3762008.86	7.01478	6.49208	0.13795		2.60E-05	1.63E-06	8.55E-04	0.00E+00	8.83E-04
499 UCART12	441106.6	3762008.86	441106.61, 3762008.86	6.58022	6.13843	0.12779		2.43E-05	1.54E-06	7.92E-04	0.00E+00	8.18E-04
500 UCART12	441156.6	3762008.86	441156.61, 3762008.86	6.13405	5.76792	0.11882		2.27E-05	1.45E-06	7.37E-04	0.00E+00	7.61E-04
501 UCART12	440406.6	3762058.86	440406.61, 3762058.86	23.69703	21.34658	0.59024		8.77E-05	5.37E-06	3.66E-03	0.00E+00	3.75E-03
502 UCART12	440456.6	3762058.86	440456.61, 3762058.86	21.33827	19.46471	0.56805		7.90E-05	4.89E-06	3.52E-03	0.00E+00	3.61E-03
503 UCART12	440506.6	3762058.86	440506.61, 3762058.86	18.49319	16.74326	0.49193		6.84E-05	4.21E-06	3.05E-03	0.00E+00	3.12E-03
504 UCART12	440556.6	3762058.86	440556.61, 3762058.86	14.81428	13.39415	0.46868		5.48E-05	3.37E-06	2.91E-03	0.00E+00	2.96E-03
505 UCART12	440606.6	3762058.86	440606.61, 3762058.86	12.14396	11.00689	0.41219		4.49E-05	2.77E-06	2.56E-03	0.00E+00	2.60E-03
506 UCART12	440656.6	3762058.86	440656.61, 3762058.86	10.28341	9.29791	0.34207		3.81E-05	2.34E-06	2.12E-03	0.00E+00	2.16E-03
507 UCART12	440706.6	3762058.86	440706.61, 3762058.86	9.91031	8.98974	0.27555		3.67E-05	2.26E-06	1.71E-03	0.00E+00	1.75E-03
508 UCART12	440756.6	3762058.86	440756.61, 3762058.86	9.88539	8.85332	0.25778		3.66E-05	2.23E-06	1.60E-03	0.00E+00	1.64E-03
509 UCART12	440806.6	3762058.86	440806.61, 3762058.86	9.8564	8.83666	0.23726		3.65E-05	2.22E-06	1.47E-03	0.00E+00	1.51E-03
510 UCART12	440856.6	3762058.86	440856.61, 3762058.86	9.64869	8.71207	0.21586		3.57E-05	2.19E-06	1.34E-03	0.00E+00	1.38E-03
511 UCART12	440906.6	3762058.86	440906.61, 3762058.86	9.24763	8.41963	0.19493		3.42E-05	2.12E-06	1.21E-03	0.00E+00	1.24E-03
512 UCART12	440956.6	3762058.86	440956.61, 3762058.86	8.69939	7.99077	0.17694		3.22E-05	2.01E-06	1.10E-03	0.00E+00	1.13E-03
513 UCART12	441006.6	3762058.86	441006.61, 3762058.86	8.08799	7.49676	0.16684		2.99E-05	1.88E-06	1.03E-03	0.00E+00	1.07E-03
514 UCART12	441056.6	3762058.86	441056.61, 3762058.86	7.46456	6.98127	0.1562		2.76E-05	1.75E-06	9.69E-04	0.00E+00	9.98E-04
515 UCART12	441106.6	3762058.86	441106.61, 3762058.86	6.85674	6.46825	0.14579		2.54E-05	1.63E-06	9.04E-04	0.00E+00	9.31E-04
516 UCART12	441156.6	3762058.86	441156.61, 3762058.86	6.28397	5.97599	0.13583		2.33E-05	1.50E-06	8.42E-04	0.00E+00	8.67E-04
517 ONSITE	440191.4	3762138.44	440191.38, 3762138.44	35.16946	32.69978	1.98512		1.30E-04	8.22E-06	1.23E-02	0.00E+00	1.24E-02
518 ONSITE	440241.4	3762138.44	440241.38, 3762138.44	38.0262	34.93911	1.26212		1.41E-04	8.78E-06	7.83E-03	0.00E+00	7.98E-03
519 ONSITE	440291.4	3762138.44	440291.38, 3762138.44	40.61384	36.58284	1.30155		1.50E-04	9.20E-06	8.07E-03	0.00E+00	8.23E-03
520 ONSITE	440341.4	3762138.44	440341.38, 3762138.44	38.93699	34.96178	1.23411		1.44E-04	8.79E-06	7.65E-03	0.00E+00	7.80E-03
521 ONSITE	440191.4	3762188.44	440191.38, 3762188.44	49.31128	43.61597	3.13372		1.82E-04	1.10E-05	1.94E-02	0.00E+00	1.96E-02
522 ONSITE	440241.4	3762188.44	440241.38, 3762188.44	54.02668	47.46843	2.25822		2.00E-04	1.19E-05	1.40E-02	0.00E+00	1.42E-02

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
523	ONSITE	440291.4	3762188.44	440291.38, 3762188.44	57.96147	50.94921	1.97456		2.14E-04	1.28E-05	1.22E-02	0.00E+00	1.25E-02
524	ONSITE	440341.4	3762188.44	440341.38, 3762188.44	53.52754	47.02169	1.74126		1.98E-04	1.18E-05	1.08E-02	0.00E+00	1.10E-02
525	ONSITE	440191.4	3762238.44	440191.38, 3762238.44	76.79447	65.58904	5.03913		2.84E-04	1.65E-05	3.12E-02	0.00E+00	3.15E-02
526	ONSITE	440241.4	3762238.44	440241.38, 3762238.44	86.7754	72.31901	4.26607		3.21E-04	1.82E-05	2.65E-02	0.00E+00	2.68E-02
527	ONSITE	440291.4	3762238.44	440291.38, 3762238.44	91.14973	77.42658	3.46435		3.37E-04	1.95E-05	2.15E-02	0.00E+00	2.18E-02
528	ONSITE	440341.4	3762238.44	440341.38, 3762238.44	75.01427	65.04531	2.67051		2.78E-04	1.63E-05	1.66E-02	0.00E+00	1.69E-02

PHASE 1 OPERATIONS PM2.5

	Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)	Plume Width (m)	Segment Length (m)	Source Area (m2)	Unitized Emissions Rate (g/s)	
Group: P1ONRUN													
SLINE6	Onsite - Building 1	15	26	0.01464	272.1	0.17	6.49E-02	7.51E-07	12	272.1	3265.2	0.071417323	SLINE6
SLINE7	Onsite - Building 2	15	29	0.01464	296	0.18	7.81E-02	9.04E-07	12	296	3552	0.077690289	SLINE7
SLINE8	Onsite - Building 3	15	23	0.01464	398.1	0.25	8.33E-02	9.64E-07	12	398.1	4777.2	0.104488189	SLINE8
SLINE9	Onsite - Building 4	15	33	0.01464	161.2	0.10	4.81E-02	5.57E-07	12	161.2	1934.4	0.042309711	SLINE9
SLINE10	Onsite - Building 5	15	55	0.01464	586.5	0.36	2.93E-01	3.40E-06	12	586.5	7038	0.153937008	SLINE10
SLINE11	Onsite - Building 6	15	96	0.01464	243.9	0.15	2.13E-01	2.47E-06	12	243.9	2926.8	0.064015748	SLINE11
SLINE12	Onsite - Building 7	15	56	0.01464	220.5	0.14	1.12E-01	1.30E-06	12	220.5	2646	0.057874016	SLINE12
SLINE13	Onsite - Building 8	15	58	0.01464	123.8	0.08	6.53E-02	7.56E-07	12	123.8	1485.6	0.032493438	SLINE13
SLINE14	Onsite - Building 9	15	65	0.01464	220.4	0.14	1.30E-01	1.51E-06	12	220.4	2644.8	0.057847769	SLINE14
SLINE15	Onsite - Building 10	15	50	0.01464	218.9	0.14	9.97E-02	1.15E-06	12	218.9	2626.8	0.057454068	SLINE15
SLINE16	Onsite - Building 11	15	17	0.01464	226	0.14	3.49E-02	4.05E-07	12	226	2712	0.059317585	SLINE16
SLINE17	Onsite - Building 12	15	15	0.01464	195.9	0.12	2.67E-02	3.10E-07	12	195.9	2350.8	0.051417323	SLINE17
SLINE18	Onsite - Building 13	15	74	0.01464	173.8	0.11	1.17E-01	1.35E-06	12	173.8	2085.6	0.045616798	SLINE18
SLINE39	Onsite - PA4 - 5%	15	44	0.01464	472.9				12	472.9	5674.8	0.124120735	SLINE39
								1.58E-05			45720	1	

Group: P1	Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Idling Emission Rate (g/sec)	Forklift (PM_{10}) (g/sec)	Hostler (PM_{10}) (g/sec)	Total Emission Rate (g/sec)	AERMOD Unitized Emissions Rate (g/s)	
SLINE26	Building 1 Idle	Idle	13	0.001558283	0.25	5.11E-03	5.91E-08			5.91E-08	0.0439137	SLINE26
SLINE27	Building 2 Idle	Idle	15	0.001558283	0.25	5.65E-03	6.54E-08			6.54E-08	0.0485592	SLINE27
SLINE28	Building 3 Idle	Idle	12	0.001558283	0.25	4.48E-03	5.19E-08			5.19E-08	0.0385124	SLINE28
SLINE29	Building 4 Idle	Idle	16	0.001558283	0.25	6.39E-03	7.40E-08			7.40E-08	0.0549656	SLINE29
SLINE30	Building 5 Idle	Idle	28	0.001558283	0.25	1.07E-02	1.24E-07			1.24E-07	0.0920950	SLINE30
SLINE31	Building 6 Idle	Idle	48	0.001558283	0.25	1.87E-02	2.17E-07			2.17E-07	0.1609194	SLINE31
SLINE32	Building 7 Idle	Idle	28	0.001558283	0.25	1.09E-02	1.26E-07			1.26E-07	0.0937694	SLINE32
SLINE33	Building 8 Idle	Idle	29	0.001558283	0.25	1.13E-02	1.31E-07			1.31E-07	0.0971183	SLINE33
SLINE34	Building 9 Idle	Idle	33	0.001558283	0.25	1.27E-02	1.47E-07			1.47E-07	0.1088395	SLINE34
SLINE35	Building 10 Idle	Idle	25	0.001558283	0.25	9.75E-03	1.13E-07			1.13E-07	0.0837997	SLINE35
SLINE36	Building 11 Idle	Idle	9	0.001558283	0.25	3.31E-03	3.83E-08			3.83E-08	0.0284657	SLINE36
SLINE37	Building 12 Idle	Idle	8	0.001558283	0.25	2.92E-03	3.38E-08			3.38E-08	0.0251323	SLINE37
SLINE38	Building 13 Idle	Idle	37	0.001558283	0.25	1.44E-02	1.67E-07			1.67E-07	0.1239096	SLINE38
										1.35E-06	1.00E+00	

Unitized emission rates (1 g/s) were used for source groups in AERMOD.
Truck routes were composed of several street segments, thus the emission rate for each segment needed to sum to 1.0.
The emission rate for each segment was based on the area of the segment (segment length x segment width) divided by the total area of the route (sum of each segment's area).

Group: GE	Generators	# of Generators	Emission factor (tons/yr)	Emission factor (g/sec)	AERMOD Unitized Emissions Rate (g/s)
Area1	PA 1	7	0.043403	1.25E-03	0.5000
Area2	PA 2	6	0.037203	1.07E-03	0.4286
Area3	PA 3A	1	0.006200	1.78E-04	0.0714
				0.00250	1.0000

* variable emissions - 1 hour a week (asumed Monday 1pm)

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

	Project Mix	Idle (g/trip)	15 mph (g/mi)	45 mph (g/mi)	50 mph (g/mi)	55 mph (g/mi)	25 mph (g/mi)
HHDT	0.48	0.001978702	0.008078295	0.011172042	0.014280802	0.018296367	0.006014
LHDT2	0.22	0.001240308	0.031086072	0.012297167	0.010974068	0.010441344	0.024858
MHDT	0.29	0.001109869	0.012853445	0.005352453	0.006228494	0.007580087	0.006515
Weighted Rates	1.00	0.001558283	0.014639487	0.009717789	0.011177684	0.013391802	0.010388

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	PM2.5_IDLEX	
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Gasoline	3.869766832	177.2217014	77.42629477	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Diesel	14693.60242	1799109.244	221962.6286	0.030278054	444.8936877
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Electricity	109.5985203	11409.19414	1368.406052	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Natural Gas	2560.5176	164963.5875	14771.25816	0.010307639	26.39288998
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Gasoline	2823.949841	99825.11713	42072.64494	0	0
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Diesel	4888.887446	187525.0486	61496.05385	0.02640177	129.0752824
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Electricity	37.58571717	2461.549606	498.4225452	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Gasoline	1427.423114	76828.767	28559.88167	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Diesel	15347.54129	658670.5437	188328.1928	0.015707744	241.0752502
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Electricity	133.1585562	6928.399641	1697.434032	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Natural Gas	208.419151	9895.426472	1924.329451	0.017568893	3.66169376

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	PM2.5_RUNEX	
San Bernardino (SC)	2025	HHDT	Aggregate	15	Gasoline	0.118162883	0.007249443	0.000856615
San Bernardino (SC)	2025	HHDT	Aggregate	15	Diesel	759.0544009	0.00864297	6.560484112
San Bernardino (SC)	2025	HHDT	Aggregate	15	Electricity	5.068930343	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	15	Natural Gas	98.16259212	0.004130026	0.405414073
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Gasoline	122.1233391	0.001765376	0.215593631
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Diesel	147.9455374	0.055763132	8.249906463
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Electricity	2.25565699	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Gasoline	226.7136449	0.002689956	0.609849756
San Bernardino (SC)	2025	MHDT	Aggregate	15	Diesel	1998.933367	0.014281015	28.5467981
San Bernardino (SC)	2025	MHDT	Aggregate	15	Electricity	20.76597946	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Natural Gas	27.21506117	0.002473071	0.067304776
San Bernardino (SC)	2025	HHDT	Aggregate	45	Gasoline	11.74333549	0.002371664	0.027851246
San Bernardino (SC)	2025	HHDT	Aggregate	45	Diesel	85279.568	0.012395305	1057.066215
San Bernardino (SC)	2025	HHDT	Aggregate	45	Electricity	552.666234	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	45	Natural Gas	10078.39503	0.001444154	14.55475334
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Gasoline	8072.91279	0.000704723	5.689171318
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Diesel	12401.25183	0.020015536	248.2177051
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Electricity	173.4265238	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Gasoline	6637.641985	0.000713619	4.736746913
San Bernardino (SC)	2025	MHDT	Aggregate	45	Diesel	59373.88351	0.005994267	355.9029233
San Bernardino (SC)	2025	MHDT	Aggregate	45	Electricity	617.9940825	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Natural Gas	846.3436864	0.000616455	0.521732705
San Bernardino (SC)	2025	HHDT	Aggregate	50	Gasoline	10.91062341	0.002340953	0.025541251
San Bernardino (SC)	2025	HHDT	Aggregate	50	Diesel	76946.16855	0.016010334	1231.933827
San Bernardino (SC)	2025	HHDT	Aggregate	50	Electricity	510.0786397	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	50	Natural Gas	9815.345123	0.001477765	14.50477409
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Gasoline	6544.063868	0.000711602	4.656771998
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Diesel	9469.302452	0.018222923	172.5583697
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Electricity	135.1710724	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Gasoline	5225.043967	0.000689526	3.602802785
San Bernardino (SC)	2025	MHDT	Aggregate	50	Diesel	47929.23776	0.006976501	334.3783838
San Bernardino (SC)	2025	MHDT	Aggregate	50	Electricity	496.5711073	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Natural Gas	673.6276848	0.000561888	0.378503166
San Bernardino (SC)	2025	HHDT	Aggregate	55	Gasoline	11.31428545	0.002426063	0.027449168
San Bernardino (SC)	2025	HHDT	Aggregate	55	Diesel	81110.40296	0.020521407	1664.49963
San Bernardino (SC)	2025	HHDT	Aggregate	55	Electricity	536.7421379	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	55	Natural Gas	10229.92816	0.001632128	16.69655108
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Gasoline	5690.782566	0.000755402	4.298827287
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Diesel	7920.61072	0.017551593	139.0193367
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Electricity	114.6333779	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Gasoline	4746.274955	0.000702727	3.335333668
San Bernardino (SC)	2025	MHDT	Aggregate	55	Diesel	43669.60615	0.008504706	371.3971648
San Bernardino (SC)	2025	MHDT	Aggregate	55	Electricity	452.3652397	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Natural Gas	615.5515728	0.000583217	0.359000087
San Bernardino (SC)	2025	HHDT	Aggregate	25	Gasoline	2.473517863	0.004088541	0.01011308
San Bernardino (SC)	2025	HHDT	Aggregate	25	Diesel	21903.60147	0.006391617	139.9994331
San Bernardino (SC)	2025	HHDT	Aggregate	25	Electricity	136.5701971	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	25	Natural Gas	2167.847246	0.002574957	5.582114028
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Gasoline	2828.981097	0.001112346	3.146805641
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Diesel	4989.856493	0.03865304	192.8731247
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Electricity	66.74866867	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Gasoline	2809.850259	0.001395898	3.922263161
San Bernardino (SC)	2025	MHDT	Aggregate	25	Diesel	24478.92669	0.007241923	177.2745061
San Bernardino (SC)	2025	MHDT	Aggregate	25	Electricity	256.0057025	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Natural Gas	353.6880205	0.001574314	0.55681601

PHASE 2 OPERATIONS PM2.5

	Truck Route Emissions	Speed (mph)	Trips (veh/day)	Emission Factor (g/mi)	Length (meters)	Length (mi/veh)	Emissions (g/day)	Emission Rate (g/sec)	Plume Width (m)	Segment Length (m)	Source Area (m2)	Unitized Emissions Rate (g/s)	
Group: P2OnRoad													
SLINE19	Schaefer betwn Euclid & Sultana - 5%	45	44	0.01016	458.9	0.29	1.28E-01	1.48E-06	13	458.9	5965.7	0.241208936	SLINE19
SLINE20	Sultana btwn Schaefer & Edison - 20%	45	176	0.01016	792.3	0.49	8.82E-01	1.02E-05	12	792.3	9507.6	0.384417265	SLINE20
SLINE21	Edison btwn Euclid & Sultana - 0%	45	0	0.01016	474.9	0.30	0.00E+00	0.00E+00					
SLINE22	Edison e/o Sultana - 20%	45	176	0.01016	771.6	0.48	8.59E-01	9.94E-06	12	771.6	9259.2	0.3743738	SLINE22
SLINE23	Euclid n/o Schaefer - 0%	45	441	0.01016	595.1	0.37	1.66E+00	1.92E-05					
SLINE24	Euclid btwn Schaefer & Edison - 0%	45	0	0.01016	798	0.50	0.00E+00	0.00E+00					
SLINE25	Euclid s/o Edison - 0%	45	0	0.01016	615.8	0.38	0.00E+00	0.00E+00					
								4.08E-05	Total Area (m^2)		24732.5	1	
Group: P2Onsite													
SLINE40	Onsite - Driveway 15	15	99	0.01532	339.2	0.21	3.20E-01	3.70E-06					

Group: P2	Loading Dock Idling	Speed (mph)	Trips (veh/day)	Emission Factor (g/hr)	Duration (hr/veh)	Emissions (g/day)	Idling Emission Rate (g/sec)	Forklift (PM_{10}) (g/sec)	Hostler (PM_{10}) (g/sec)	Total Emission Rate (g/sec)	AERMOD Unitized Emissions Rate (g/s)	
SLINE41	PA 2	Idle	50	0.001676077	0.25	2.07E-02	2.40E-07			2.40E-07	1.00E+00	SLINE41

Unitized emission rates (1 g/s) were used for source groups in AERMOD.
Truck routes were composed of several street segments, thus the emission rate for each segment needed to sum to 1.0.
The emission rate for each segment was based on the area of the segment (segment length x segment width) divided by the total area of the route (sum of each segment's area).

	Generators	# of Generators	Emission factor (tons/yr)	Emission factor (g/sec)	AERMOD Unitized Emissions Rate (g/s)
AREA4	PA 2	1	0.006200	6.20E-03	1.0000

* variable emissions - 1 hour a week (asumed Monday 1pm)

Source: EMFAC2021 (v1.0.2) Emission Rates
Region Type: Sub-Area
Region: San Bernardino (SC)
Calendar Year: 2025
Season: Annual
Vehicle Classification: EMFAC2007 Categories
Units: miles/day for CVMT and EVMT, trips/day for Trips, g/mile for RUNEX, PMBW and PMTW, g/trip for STREX, HOTSOAK and RUNLOSS, g/vehicle/day for IDLEX and DIURN. PHEV calculated based on total VMT.

	Project Mix	Idle (g/trip)	15 mph (g/mi)	45 mph (g/mi)	50 mph (g/mi)	55 mph (g/mi)	25 mph (g/mi)
HHDT	0.63	0.001978702	0.008078295	0.011172042	0.014280802	0.018296367	0.006014
LHDT2	0.17	0.001240308	0.031086072	0.012297167	0.010974068	0.010441344	0.024858
MHDT	0.21	0.001109869	0.012853445	0.005352453	0.006228494	0.007580087	0.006515
Weighted Rates	1.00	0.001676077	0.012899789	0.010156848	0.012065536	0.014772498	0.009258

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	Population	VMT	Trips	PM2.5_IDLEX	
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Gasoline	3.869766832	177.2217014	77.42629477	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Diesel	14693.60242	1799109.244	221962.6286	0.030278054	444.8936877
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Electricity	109.5985203	11409.19414	1368.406052	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	Aggregate	Natural Gas	2560.5176	164963.5875	14771.25816	0.010307639	26.39288998
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Gasoline	2823.949841	99825.11713	42072.64494	0	0
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Diesel	4888.887446	187525.0486	61496.05385	0.02640177	129.0752824
San Bernardino (SC)	2025	LHDT2	Aggregate	Aggregate	Electricity	37.58571717	2461.549606	498.4225452	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Gasoline	1427.423114	76828.767	28559.88167	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Diesel	15347.54129	658670.5437	188328.1928	0.015707744	241.0752502
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Electricity	133.1585562	6928.399641	1697.434032	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	Aggregate	Natural Gas	208.419151	9895.426472	1924.329451	0.017568893	3.66169376

Region	Calendar Year	Vehicle Category	Model Year	Speed	Fuel	VMT	PM2.5_RUNEX	
San Bernardino (SC)	2025	HHDT	Aggregate	15	Gasoline	0.118162883	0.007249443	0.000856615
San Bernardino (SC)	2025	HHDT	Aggregate	15	Diesel	759.0544009	0.00864297	6.560484112
San Bernardino (SC)	2025	HHDT	Aggregate	15	Electricity	5.068930343	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	15	Natural Gas	98.16259212	0.004130026	0.405414073
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Gasoline	122.1233391	0.001765376	0.215593631
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Diesel	147.9455374	0.055763132	8.249906463
San Bernardino (SC)	2025	LHDT2	Aggregate	15	Electricity	2.25565699	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Gasoline	226.7136449	0.002689956	0.609849756
San Bernardino (SC)	2025	MHDT	Aggregate	15	Diesel	1998.933367	0.014281015	28.5467981
San Bernardino (SC)	2025	MHDT	Aggregate	15	Electricity	20.76597946	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	15	Natural Gas	27.21506117	0.002473071	0.067304776
San Bernardino (SC)	2025	HHDT	Aggregate	45	Gasoline	11.74333549	0.002371664	0.027851246
San Bernardino (SC)	2025	HHDT	Aggregate	45	Diesel	85279.568	0.012395305	1057.066215
San Bernardino (SC)	2025	HHDT	Aggregate	45	Electricity	552.666234	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	45	Natural Gas	10078.39503	0.001444154	14.55475334
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Gasoline	8072.91279	0.000704723	5.689171318
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Diesel	12401.25183	0.020015536	248.2177051
San Bernardino (SC)	2025	LHDT2	Aggregate	45	Electricity	173.4265238	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Gasoline	6637.641985	0.000713619	4.736746913
San Bernardino (SC)	2025	MHDT	Aggregate	45	Diesel	59373.88351	0.005994267	355.9029233
San Bernardino (SC)	2025	MHDT	Aggregate	45	Electricity	617.9940825	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	45	Natural Gas	846.3436864	0.000616455	0.521732705
San Bernardino (SC)	2025	HHDT	Aggregate	50	Gasoline	10.91062341	0.002340953	0.025541251
San Bernardino (SC)	2025	HHDT	Aggregate	50	Diesel	76946.16855	0.016010334	1231.933827
San Bernardino (SC)	2025	HHDT	Aggregate	50	Electricity	510.0786397	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	50	Natural Gas	9815.345123	0.001477765	14.50477409
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Gasoline	6544.063868	0.000711602	4.656771998
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Diesel	9469.302452	0.018222923	172.5583697
San Bernardino (SC)	2025	LHDT2	Aggregate	50	Electricity	135.1710724	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Gasoline	5225.043967	0.000689526	3.602802785
San Bernardino (SC)	2025	MHDT	Aggregate	50	Diesel	47929.23776	0.006976501	334.3783838
San Bernardino (SC)	2025	MHDT	Aggregate	50	Electricity	496.5711073	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	50	Natural Gas	673.6276848	0.000561888	0.378503166
San Bernardino (SC)	2025	HHDT	Aggregate	55	Gasoline	11.31428545	0.002426063	0.027449168
San Bernardino (SC)	2025	HHDT	Aggregate	55	Diesel	81110.40296	0.020521407	1664.49963
San Bernardino (SC)	2025	HHDT	Aggregate	55	Electricity	536.7421379	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	55	Natural Gas	10229.92816	0.001632128	16.69655108
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Gasoline	5690.782566	0.000755402	4.298827287
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Diesel	7920.61072	0.017551593	139.0193367
San Bernardino (SC)	2025	LHDT2	Aggregate	55	Electricity	114.6333779	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Gasoline	4746.274955	0.000702727	3.335333668
San Bernardino (SC)	2025	MHDT	Aggregate	55	Diesel	43669.60615	0.008504706	371.3971648
San Bernardino (SC)	2025	MHDT	Aggregate	55	Electricity	452.3652397	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	55	Natural Gas	615.5515728	0.000583217	0.359000087
San Bernardino (SC)	2025	HHDT	Aggregate	25	Gasoline	2.473517863	0.004088541	0.01011308
San Bernardino (SC)	2025	HHDT	Aggregate	25	Diesel	21903.60147	0.006391617	139.9994331
San Bernardino (SC)	2025	HHDT	Aggregate	25	Electricity	136.5701971	0	0
San Bernardino (SC)	2025	HHDT	Aggregate	25	Natural Gas	2167.847246	0.002574957	5.582114028
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Gasoline	2828.981097	0.001112346	3.146805641
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Diesel	4989.856493	0.03865304	192.8731247
San Bernardino (SC)	2025	LHDT2	Aggregate	25	Electricity	66.74866867	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Gasoline	2809.850259	0.001395898	3.922263161
San Bernardino (SC)	2025	MHDT	Aggregate	25	Diesel	24478.92669	0.007241923	177.2745061
San Bernardino (SC)	2025	MHDT	Aggregate	25	Electricity	256.0057025	0	0
San Bernardino (SC)	2025	MHDT	Aggregate	25	Natural Gas	353.6880205	0.001574314	0.55681601

Emergency Backup Generator Emissions

	Fuel Type	Quantity	HP	LF	Hours/Year per Unit	Hours per Day	HP-hr per day	Total hp-hr per year
Standard Generator	Diesel	1	750	0.74	50	1	750	37,500

	PM2.5
Emissions Rates (g/hp-hr)	0.15
Pounds/Day	0.25
Tons/Year	0.01
Metric tons/year	

Source: Emissions rates from CalEEMod Guide Appenix D, Table 12.1

PHASE 1 OPERATIONAL PM2.5 24 HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
1.58E-05	1.35E-06	2.50E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s			Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	3.61538	3.98984	0.08847	5.72E-05	5.37E-06	2.21E-04	0.00E+00	2.84E-04
2	1	439943.4	3761716.33	439943.36, 3761716.33	5.17459	5.85922	0.12171	8.19E-05	7.89E-06	3.04E-04	0.00E+00	3.94E-04
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	4.19261	4.16718	0.0637	6.64E-05	5.61E-06	1.59E-04	0.00E+00	2.31E-04
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	4.51813	4.46657	0.06851	7.15E-05	6.01E-06	1.71E-04	0.00E+00	2.49E-04
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	4.8099	4.7249	0.07455	7.61E-05	6.36E-06	1.86E-04	0.00E+00	2.69E-04
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	5.16066	5.01317	0.08136	8.17E-05	6.75E-06	2.03E-04	0.00E+00	2.92E-04
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	5.54085	5.3814	0.0884	8.77E-05	7.25E-06	2.21E-04	0.00E+00	3.16E-04
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	5.95579	5.77464	0.09549	9.43E-05	7.77E-06	2.38E-04	0.00E+00	3.40E-04
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	6.38411	6.16895	0.10222	1.01E-04	8.31E-06	2.55E-04	0.00E+00	3.65E-04
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	6.83889	6.64093	0.10793	1.08E-04	8.94E-06	2.70E-04	0.00E+00	3.87E-04
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	7.26198	7.17744	0.11189	1.15E-04	9.66E-06	2.79E-04	0.00E+00	4.04E-04
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	7.87546	7.7357	0.11295	1.25E-04	1.04E-05	2.82E-04	0.00E+00	4.17E-04
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	8.71005	8.26837	0.10996	1.38E-04	1.11E-05	2.75E-04	0.00E+00	4.24E-04
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	9.56676	8.67667	0.10241	1.51E-04	1.17E-05	2.56E-04	0.00E+00	4.19E-04
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	10.2782	8.84337	0.1229	1.63E-04	1.19E-05	3.07E-04	0.00E+00	4.81E-04
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	10.6485	8.83966	0.16169	1.69E-04	1.19E-05	4.04E-04	0.00E+00	5.84E-04
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	10.38999	9.45162	0.19753	1.64E-04	1.27E-05	4.93E-04	0.00E+00	6.70E-04
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	4.20394	4.13046	0.06159	6.65E-05	5.56E-06	1.54E-04	0.00E+00	2.26E-04
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	4.46385	4.34608	0.06662	7.06E-05	5.85E-06	1.66E-04	0.00E+00	2.43E-04
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	4.73804	4.62802	0.07183	7.50E-05	6.23E-06	1.79E-04	0.00E+00	2.61E-04
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	5.03728	4.99149	0.0768	7.97E-05	6.72E-06	1.92E-04	0.00E+00	2.78E-04
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	5.35555	5.33215	0.08152	8.48E-05	7.18E-06	2.04E-04	0.00E+00	2.96E-04
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	5.68514	5.67446	0.08567	9.00E-05	7.64E-06	2.14E-04	0.00E+00	3.12E-04
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	5.99932	6.03877	0.08859	9.49E-05	8.13E-06	2.21E-04	0.00E+00	3.24E-04
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	6.43924	6.42856	0.08989	1.02E-04	8.66E-06	2.24E-04	0.00E+00	3.35E-04
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	7.00821	6.84774	0.08915	1.11E-04	9.22E-06	2.23E-04	0.00E+00	3.43E-04
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	7.63975	7.23444	0.08552	1.21E-04	9.74E-06	2.14E-04	0.00E+00	3.44E-04
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	8.25947	7.49022	0.07846	1.31E-04	1.01E-05	1.96E-04	0.00E+00	3.37E-04
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	8.77564	7.57096	0.09209	1.39E-04	1.02E-05	2.30E-04	0.00E+00	3.79E-04
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	8.95734	7.45551	0.1211	1.42E-04	1.00E-05	3.02E-04	0.00E+00	4.54E-04
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	8.66496	8.05233	0.15066	1.37E-04	1.08E-05	3.76E-04	0.00E+00	5.24E-04
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	9.10483	8.38623	0.174	1.44E-04	1.13E-05	4.35E-04	0.00E+00	5.90E-04
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	4.13039	4.00664	0.05946	6.54E-05	5.39E-06	1.48E-04	0.00E+00	2.19E-04
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	4.36147	4.33661	0.06324	6.90E-05	5.84E-06	1.58E-04	0.00E+00	2.33E-04
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	4.58113	4.63999	0.06683	7.25E-05	6.25E-06	1.67E-04	0.00E+00	2.46E-04
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	4.83705	4.96159	0.06978	7.66E-05	6.68E-06	1.74E-04	0.00E+00	2.57E-04
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	5.13001	5.23079	0.07212	8.12E-05	7.04E-06	1.80E-04	0.00E+00	2.68E-04
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	5.45904	5.52524	0.0735	8.64E-05	7.44E-06	1.84E-04	0.00E+00	2.77E-04
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	5.87135	5.82468	0.0733	9.29E-05	7.84E-06	1.83E-04	0.00E+00	2.84E-04
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	6.31779	6.13212	0.07142	1.00E-04	8.26E-06	1.78E-04	0.00E+00	2.87E-04
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	6.79331	6.3996	0.06757	1.08E-04	8.62E-06	1.69E-04	0.00E+00	2.85E-04
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	7.24849	6.59057	0.06162	1.15E-04	8.87E-06	1.54E-04	0.00E+00	2.77E-04
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	7.61683	6.60332	0.0706	1.21E-04	8.89E-06	1.76E-04	0.00E+00	3.06E-04
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	7.7031	6.44153	0.09252	1.22E-04	8.67E-06	2.31E-04	0.00E+00	3.62E-04
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	7.43247	7.0105	0.11627	1.18E-04	9.44E-06	2.90E-04	0.00E+00	4.17E-04
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	7.80395	7.39844	0.13794	1.24E-04	9.96E-06	3.44E-04	0.00E+00	4.78E-04
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	8.26092	7.49523	0.15233	1.31E-04	1.01E-05	3.80E-04	0.00E+00	5.21E-04
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	4.01963	4.09622	0.05566	6.36E-05	5.52E-06	1.39E-04	0.00E+00	2.08E-04
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	4.23441	4.37449	0.05804	6.70E-05	5.89E-06	1.45E-04	0.00E+00	2.18E-04
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	4.48567	4.61409	0.05995	7.10E-05	6.21E-06	1.50E-04	0.00E+00	2.27E-04
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	4.76983	4.8756	0.06109	7.55E-05	6.56E-06	1.53E-04	0.00E+00	2.35E-04
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	5.06331	5.09591	0.06133	8.01E-05	6.86E-06	1.53E-04	0.00E+00	2.40E-04
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	5.3857	5.32777	0.06041	8.52E-05	7.17E-06	1.51E-04	0.00E+00	2.43E-04
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	5.78117	5.55963	0.05802	9.15E-05	7.49E-06	1.45E-04	0.00E+00	2.44E-04
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	6.14844	5.73318	0.05425	9.73E-05	7.72E-06	1.35E-04	0.00E+00	2.40E-04
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	6.46295	5.84294	0.04905	1.02E-04	7.87E-06	1.22E-04	0.00E+00	2.33E-04
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	6.67472	5.85067	0.05522	1.06E-04	7.88E-06	1.38E-04	0.00E+00	2.51E-04
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	6.72269	5.70509	0.07237	1.06E-04	7.68E-06	1.81E-04	0.00E+00	2.95E-04
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	6.4779	6.0905	0.09129	1.03E-04	8.20E-06	2.28E-04	0.00E+00	3.39E-04
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	6.77972	6.55638	0.10999	1.07E-04	8.83E-06	2.75E-04	0.00E+00	3.91E-04
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	7.39374	6.75046	0.12498	1.17E-04	9.09E-06	3.12E-04	0.00E+00	4.38E-04
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	7.6278	6.81691	0.13282	1.21E-04	9.18E-06	3.32E-04	0.00E+00	4.62E-04
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	4.04354	4.12484	0.05049	6.40E-05	5.55E-06	1.26E-04	0.00E+00	1.96E-04
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	4.33227	4.4048	0.0514	6.86E-05	5.93E-06	1.28E-04	0.00E+00	2.03E-04
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	4.59699	4.60046	0.05178	7.28E-05	6.19E-06	1.29E-04	0.00E+00	2.08E-04
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	4.84958	4.76741	0.0514	7.67E-05	6.42E-06	1.28E-04	0.00E+00	2.12E-04
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	5.06158	4.91579	0.05015	8.01E-05	6.62E-06	1.25E-04	0.00E+00	2.12E-04
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	5.40142	5.06236	0.04763	8.55E-05	6.82E-06	1.19E-04	0.00E+00	2.11E-04
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	5.68813	5.22729	0.04405	9.00E-05	7.04E-06	1.10E-04	0.00E+00	2.07E-04
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	5.92244	5.29473	0.03953	9.37E-05	7.13E-06	9.87E-05	0.00E+00	2.00E-04
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	5.9943	5.21236	0.04353	9.49E-05	7.02E-06	1.09E-04	0.00E+00	2.11E-04
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	5.96055	5.07996	0.05715	9.43E-05	6.84E-06	1.43E-04	0.00E+00	2.44E-04
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	5.72535	5.3059	0.07261	9.06E-05	7.14E-06	1.81E-04	0.00E+00	2.79E-04
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	5.9429	5.78626	0.08839	9.41E-05	7.79E-06	2.21E-04	0.00E+00	3.23E-04
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	6.60699	6.21431	0.10238	1.05E-04	8.37E-06	2.56E-04	0.00E+00	3.69E-04
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	6.86178	6.33103	0.11222	1.09E-04	8.52E-06	2.80E-04	0.00E+00	3.97E-04
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	6.81961	6.15866	0.11548	1.08E-04	8.29E-06	2.88E-04	0.00E+00	4.05E-04
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	4.07373	4.14244	0.04443	6.45E-05	5.58E-06	1.11E-04	0.00E+00	1.81E-04
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	4.3465	4.39147	0.04421	6.88E-05	5.91E-06	1.10E-04	0.00E+00	1.85E-04
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	4.5449	4.47669	0.04348	7.19E-05	6.03E-06	1.09E-04	0.00E+00	1.87E-04
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	4.77659	4.59025	0.04192	7.56E-05	6.18E-06	1.05E-04	0.00E+00	1.86E-04
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	4.96983	4.64863	0.03962	7.87E-05	6.26E-06	9.89E-05	0.00E+00	1.84E-04
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	5.19898	4.76934	0.03637	8.23E-05	6.42E-06	9.08E-05	0.00E+00	1.80E-04
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	5.38358	4.82795	0.03452	8.52E-05	6.50E-06	8.62E-05	0.00E+00	1.78E-04
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	5.48086	4.784	0.03473	8.67E-05	6.44E-06	8.67E-05	0.00E+00	1.80E-04
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	5.37441	4.58618	0.04568	8.51E-05	6.17E-06	1.14E-04	0.00E+00	2.05E-04
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	5.11858	4.69314	0.05832	8.10E-05	6.32E-06	1.46E-04	0.00E+00	2.33E-04
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	5.23314	5.10408	0.07167	8.28E-05	6.87E-06	1.79E-04	0.00E+00	2.69E-04
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	5.78459	5.4184	0.08439	9.15E-05	7.30E-06	2.11E-04	0.00E+00	3.10E-04
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	6.15669	5.76411	0.09442	9.74E-05	7.76E-06	2.36E-04	0.00E+00	3.41E-04
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	6.23542	5.71606	0.10017	9.87E-05	7.70E-06	2.50E-04	0.00E+00	3.57E-04
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	6.03207	5.45768	0.10008	9.55E-05	7.35E-06	2.50E-04	0.00E+00	3.53E-04
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	4.15533	4.12668	0.03797	6.58E-05	5.56E-06	9.48E-05	0.00E+00	1.66E-04
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	4.43405	4.35588	0.03689	7.02E-05	5.86E-06	9.21E-05	0.00E+00	1.68E-04
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	4.49398	4.37527	0.03535	7.11E-05	5.89E-06	8.83E-05	0.00E+00	1.65E-04
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	4.82994	4.4698	0.03302	7.64E-05	6.02E-06	8.25E-05	0.00E+00	1.65E-04
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	4.86847	4.50443	0.03091	7.70E-05	6.06E-06	7.72E-05	0.00E+00	1.60E-04
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	5.2172	4.52877	0.03052	8.26E-05	6.10E-06	7.62E-05	0.00E+00	1.65E-04
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	5.28877	4.63342	0.02989	8.37E-05	6.24E-06	7.46E-05	0.00E+00	1.65E-04
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	5.05166	4.24812	0.0369	7.99E-05	5.72E-06	9.21E-05	0.00E+00	1.78E-04
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	4.71153	4.22879	0.04722	7.46E-05	5.69E-06	1.18E-04	0.00E+00	1.98E-04
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	4.66805	4.555	0.05854	7.39E-05	6.13E-06	1.46E-04	0.00E+00	2.26E-04

PHASE 1 OPERATIONAL PM2.5 24 HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
1.58E-05	1.35E-06	2.50E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s			Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	5.17681	4.96009	0.06971	8.19E-05	6.68E-06	1.74E-04	0.00E+00	2.63E-04
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	5.46849	5.16629	0.07963	8.65E-05	6.96E-06	1.99E-04	0.00E+00	2.92E-04
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	5.65946	5.27662	0.08644	8.96E-05	7.10E-06	2.16E-04	0.00E+00	3.13E-04
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	5.58057	5.14146	0.08904	8.83E-05	6.92E-06	2.22E-04	0.00E+00	3.18E-04
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	5.27363	4.82626	0.0866	8.35E-05	6.50E-06	2.16E-04	0.00E+00	3.06E-04
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	4.19559	4.12895	0.03157	6.64E-05	5.56E-06	7.88E-05	0.00E+00	1.51E-04
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	4.42515	4.26783	0.02992	7.00E-05	5.75E-06	7.47E-05	0.00E+00	1.50E-04
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	4.57007	4.23146	0.02811	7.23E-05	5.70E-06	7.02E-05	0.00E+00	1.48E-04
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	4.72629	4.29694	0.02782	7.48E-05	5.79E-06	6.95E-05	0.00E+00	1.50E-04
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	4.83776	4.34526	0.02736	7.66E-05	5.85E-06	6.83E-05	0.00E+00	1.51E-04
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	4.83232	4.25365	0.0267	7.65E-05	5.73E-06	6.67E-05	0.00E+00	1.49E-04
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	4.75395	4.17397	0.03009	7.52E-05	5.62E-06	7.51E-05	0.00E+00	1.56E-04
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	4.41669	3.86603	0.0386	6.99E-05	5.21E-06	9.64E-05	0.00E+00	1.71E-04
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	4.32523	4.18533	0.04803	6.85E-05	5.64E-06	1.20E-04	0.00E+00	1.94E-04
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	4.64877	4.46666	0.05788	7.36E-05	6.01E-06	1.45E-04	0.00E+00	2.24E-04
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	4.94609	4.72918	0.06701	7.83E-05	6.37E-06	1.67E-04	0.00E+00	2.52E-04
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	5.12451	4.84602	0.07433	8.11E-05	6.52E-06	1.86E-04	0.00E+00	2.73E-04
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	5.14995	4.81244	0.07853	8.15E-05	6.48E-06	1.96E-04	0.00E+00	2.84E-04
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	4.96565	4.61088	0.07881	7.86E-05	6.21E-06	1.97E-04	0.00E+00	2.82E-04
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	4.60891	4.27006	0.07784	7.29E-05	5.75E-06	1.94E-04	0.00E+00	2.73E-04
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	5.18901	4.87279	0.09844	8.21E-05	6.56E-06	2.46E-04	0.00E+00	3.35E-04
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	5.55944	5.20162	0.10583	8.80E-05	7.00E-06	2.64E-04	0.00E+00	3.59E-04
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	5.97305	5.57681	0.11426	9.45E-05	7.51E-06	2.85E-04	0.00E+00	3.87E-04
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	6.44347	6.00782	0.12407	1.02E-04	8.09E-06	3.10E-04	0.00E+00	4.20E-04
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	6.96725	6.49464	0.13505	1.10E-04	8.74E-06	3.37E-04	0.00E+00	4.56E-04
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	7.56065	7.05657	0.14759	1.20E-04	9.50E-06	3.69E-04	0.00E+00	4.98E-04
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	8.23215	7.69393	0.16211	1.30E-04	1.04E-05	4.05E-04	0.00E+00	5.45E-04
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	8.99524	8.4122	0.17832	1.42E-04	1.13E-05	4.45E-04	0.00E+00	5.99E-04
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	5.02813	4.70276	0.09217	7.96E-05	6.33E-06	2.30E-04	0.00E+00	3.16E-04
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	5.35663	5.00143	0.09778	8.48E-05	6.73E-06	2.44E-04	0.00E+00	3.36E-04
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	5.71906	5.33407	0.10376	9.05E-05	7.18E-06	2.59E-04	0.00E+00	3.57E-04
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	6.12471	5.70455	0.11031	9.69E-05	7.68E-06	2.75E-04	0.00E+00	3.80E-04
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	6.5686	6.11178	0.11721	1.04E-04	8.23E-06	2.93E-04	0.00E+00	4.05E-04
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	7.04395	6.55342	0.12432	1.11E-04	8.82E-06	3.10E-04	0.00E+00	4.31E-04
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	7.56519	7.02069	0.13163	1.20E-04	9.45E-06	3.29E-04	0.00E+00	4.58E-04
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	8.10986	7.54486	0.14709	1.28E-04	1.02E-05	3.67E-04	0.00E+00	5.06E-04
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	4.77446	4.49969	0.08164	7.56E-05	6.06E-06	2.04E-04	0.00E+00	2.85E-04
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	5.05348	4.76385	0.08488	8.00E-05	6.41E-06	2.12E-04	0.00E+00	2.98E-04
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	5.35342	5.03087	0.08803	8.47E-05	6.77E-06	2.20E-04	0.00E+00	3.11E-04
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	5.66941	5.35826	0.09217	8.97E-05	7.21E-06	2.30E-04	0.00E+00	3.27E-04
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	6.01134	5.62818	0.10141	9.51E-05	7.58E-06	2.53E-04	0.00E+00	3.56E-04
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	6.45954	6.16426	0.11141	1.02E-04	8.30E-06	2.78E-04	0.00E+00	3.89E-04
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	7.09977	6.68525	0.12434	1.12E-04	9.00E-06	3.10E-04	0.00E+00	4.32E-04
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	7.81721	7.41614	0.13784	1.24E-04	9.98E-06	3.44E-04	0.00E+00	4.78E-04
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	4.45294	4.32999	0.06849	7.05E-05	5.83E-06	1.71E-04	0.00E+00	2.47E-04
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	4.70293	4.69851	0.0743	7.44E-05	6.33E-06	1.86E-04	0.00E+00	2.66E-04
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	5.07353	4.99716	0.08043	8.03E-05	6.73E-06	2.01E-04	0.00E+00	2.88E-04
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	5.45962	5.3278	0.08814	8.64E-05	7.17E-06	2.20E-04	0.00E+00	3.14E-04
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	5.89071	5.69226	0.09681	9.32E-05	7.66E-06	2.42E-04	0.00E+00	3.43E-04
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	6.36313	6.09203	0.10581	1.01E-04	8.20E-06	2.64E-04	0.00E+00	3.73E-04
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	6.90831	6.52056	0.11467	1.09E-04	8.78E-06	2.86E-04	0.00E+00	4.04E-04
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	7.46967	7.08542	0.12275	1.18E-04	9.54E-06	3.07E-04	0.00E+00	4.34E-04
155	UCART3	439196	3762392.48	439196.01, 3762392.48	4.34571	4.02231	0.10935	6.88E-05	5.42E-06	2.73E-04	0.00E+00	3.47E-04
156	UCART3	439246	3762392.48	439246.01, 3762392.48	4.84997	4.47193	0.11891	7.68E-05	6.02E-06	2.97E-04	0.00E+00	3.80E-04
157	UCART3	439296	3762392.48	439296.01, 3762392.48	5.42738	4.98083	0.12989	8.59E-05	6.71E-06	3.24E-04	0.00E+00	4.17E-04
158	UCART3	439346	3762392.48	439346.01, 3762392.48	6.09247	5.55787	0.14271	9.64E-05	7.48E-06	3.56E-04	0.00E+00	4.60E-04
159	UCART3	439396	3762392.48	439396.01, 3762392.48	6.85866	6.20853	0.15797	1.09E-04	8.36E-06	3.94E-04	0.00E+00	5.11E-04
160	UCART3	439446	3762392.48	439446.01, 3762392.48	7.73813	6.95501	0.17643	1.22E-04	9.36E-06	4.41E-04	0.00E+00	5.72E-04
161	UCART3	439496	3762392.48	439496.01, 3762392.48	8.78334	7.9139	0.1994	1.39E-04	1.07E-05	4.98E-04	0.00E+00	6.48E-04
162	UCART3	439546	3762392.48	439546.01, 3762392.48	10.09548	9.0519	0.2287	1.60E-04	1.22E-05	5.71E-04	0.00E+00	7.43E-04
163	UCART3	439196	3762442.48	439196.01, 3762442.48	4.34139	4.00662	0.11081	6.87E-05	5.39E-06	2.77E-04	0.00E+00	3.51E-04
164	UCART3	439246	3762442.48	439246.01, 3762442.48	4.65525	4.36041	0.12101	7.37E-05	5.87E-06	3.02E-04	0.00E+00	3.82E-04
165	UCART3	439296	3762442.48	439296.01, 3762442.48	5.06973	4.77149	0.13272	8.02E-05	6.42E-06	3.31E-04	0.00E+00	4.18E-04
166	UCART3	439346	3762442.48	439346.01, 3762442.48	5.71797	5.2522	0.14642	9.05E-05	7.07E-06	3.66E-04	0.00E+00	4.63E-04
167	UCART3	439396	3762442.48	439396.01, 3762442.48	6.47593	5.92638	0.16255	1.02E-04	7.98E-06	4.06E-04	0.00E+00	5.16E-04
168	UCART3	439446	3762442.48	439446.01, 3762442.48	7.36626	6.73698	0.18199	1.17E-04	9.07E-06	4.54E-04	0.00E+00	5.80E-04
169	UCART3	439496	3762442.48	439496.01, 3762442.48	8.44423	7.70881	0.20591	1.34E-04	1.04E-05	5.14E-04	0.00E+00	6.58E-04
170	UCART3	439546	3762442.48	439546.01, 3762442.48	9.80053	8.87693	0.23584	1.55E-04	1.20E-05	5.89E-04	0.00E+00	7.56E-04
171	UCART3	439196	3762492.48	439196.01, 3762492.48	4.33214	4.03951	0.10918	6.86E-05	5.44E-06	2.73E-04	0.00E+00	3.47E-04
172	UCART3	439246	3762492.48	439246.01, 3762492.48	4.65653	4.43751	0.11976	7.37E-05	5.97E-06	2.99E-04	0.00E+00	3.79E-04
173	UCART3	439296	3762492.48	439296.01, 3762492.48	5.11072	4.89843	0.13195	8.09E-05	6.60E-06	3.29E-04	0.00E+00	4.17E-04
174	UCART3	439346	3762492.48	439346.01, 3762492.48	5.64883	5.43116	0.14616	8.94E-05	7.31E-06	3.65E-04	0.00E+00	4.62E-04
175	UCART3	439396	3762492.48	439396.01, 3762492.48	6.28238	6.04764	0.16298	9.94E-05	8.14E-06	4.07E-04	0.00E+00	5.15E-04
176	UCART3	439446	3762492.48	439446.01, 3762492.48	7.0771	6.76875	0.1831	1.12E-04	9.11E-06	4.57E-04	0.00E+00	5.78E-04
177	UCART3	439496	3762492.48	439496.01, 3762492.48	8.11692	7.62549	0.20749	1.28E-04	1.03E-05	5.18E-04	0.00E+00	6.57E-04
178	UCART3	439546	3762492.48	439546.01, 3762492.48	9.41728	8.64145	0.23752	1.49E-04	1.16E-05	5.93E-04	0.00E+00	7.54E-04
179	UCART3	439196	3762542.48	439196.01, 3762542.48	4.29443	4.27532	0.10466	6.80E-05	5.76E-06	2.61E-04	0.00E+00	3.35E-04
180	UCART3	439246	3762542.48	439246.01, 3762542.48	4.74118	4.68467	0.11527	7.50E-05	6.31E-06	2.88E-04	0.00E+00	3.69E-04
181	UCART3	439296	3762542.48	439296.01, 3762542.48	5.26433	5.15587	0.12759	8.33E-05	6.94E-06	3.19E-04	0.00E+00	4.09E-04
182	UCART3	439346	3762542.48	439346.01, 3762542.48	5.87389	5.69561	0.14206	9.30E-05	7.67E-06	3.55E-04	0.00E+00	4.55E-04
183	UCART3	439396	3762542.48	439396.01, 3762542.48	6.59448	6.32221	0.1592	1.04E-04	8.51E-06	3.98E-04	0.00E+00	5.10E-04
184	UCART3	439446	3762542.48	439446.01, 3762542.48	7.44624	7.05046	0.17982	1.18E-04	9.49E-06	4.49E-04	0.00E+00	5.76E-04
185	UCART3	439496	3762542.48	439496.01, 3762542.48	8.47119	7.91259	0.20484	1.34E-04	1.07E-05	5.12E-04	0.00E+00	6.56E-04
186	UCART3	439546	3762542.48	439546.01, 3762542.48	9.69149	8.93007	0.23581	1.53E-04	1.20E-05	5.89E-04	0.00E+00	7.54E-04
187	UCART3	439196	3762592.48	439196.01, 3762592.48	4.52926	4.46828	0.09731	7.17E-05	6.02E-06	2.43E-04	0.00E+00	3.21E-04
188	UCART3	439246	3762592.48	439246.01, 3762592.48	4.98619	4.87995	0.10752	7.89E-05	6.57E-06	2.68E-04	0.00E+00	3.54E-04
189	UCART3	439296	3762592.48	439296.01, 3762592.48	5.50751	5.3446	0.11954	8.72E-05	7.20E-06	2.99E-04	0.00E+00	3.93E-04
190	UCART3	439346	3762592.48	439346.01, 3762592.48	6.10559	5.87248	0.13381	9.66E-05	7.91E-06	3.34E-04	0.00E+00	4.39E-04
191	UCART3	439396	3762592.48	439396.01, 3762592.48	6.7982	6.47865	0.15092	1.08E-04	8.72E-06	3.77E-04	0.00E+00	4.93E-04
192	UCART3	439446	3762592.48	439446.01, 3762592.48	7.60536	7.1817	0.1717	1.20E-04	9.67E-06	4.29E-04	0.00E+00	5.59E-04
193	UCART3	439496	3762592.48	439496.01, 3762592.48	8.55316	8.0075	0.19737	1.35E-04	1.08E-05	4.93E-04	0.00E+00	6.39E-04
194	UCART3	439546	3762592.48	439546.01, 3762592.48	9.64999	8.97071	0.22976	1.53E-04	1.21E-05	5.74E-04	0.00E+00	7.39E-04
195	UCART3	439196	3762642.48	439196.01, 3762642.48	4.71948	4.60747	0.08746	7.47E-05	6.20E-06	2.18E-04	0.00E+00	2.99E-04
196	UCART3	439246	3762642.48	439246.01, 3762642.48	5.16821	5.0091	0.09689	8.18E-05	6.74E-06	2.42E-04	0.00E+00	3.30E-04
197	UCART3	439296	3762642.48	439296.01, 3762642.48	5.66979	5.4567	0.10813	8.97E-05	7.35E-06	2.70E-04	0.00E+00	3.67E-04
198	UCART3	439346	3762642.48	439346.01, 3762642.48	6.23688	5.9619	0.1216	9.87E-05	8.03E-06	3.04E-04	0.00E+00	4.10E-04
199	UCART3	439396	3762642.48	439396.01, 3762642.48	6.88962	6.54331	0.13789	1.09E-04	8.81E-06	3.44E-04	0.00E+00	4.62E-04
200	UCART3	439446	3762642.48	439446.01, 3762642.48	7.63582	7.21091	0.15805	1.21E-04	9.71E-06	3.95E-04	0.00E+00	5.25E-04
201	UCART3	439496	3762642.48	439496.01, 3762642.48	8.49866	7.98695	0.18344	1.35E-04	1.08E-05	4.58E-04	0.00E+00	6.03E-04
202	UCART3	439546	3762642.48	439546.01, 3762642.48	9.48683	8.87922	0.21625	1.50E-04	1.20E-05	5.40E-04	0.00E+00	7.02E-04
203	UCART3	439196	3762692.48	439196.01, 3762692.48	4.87945	4.71478	0.08455	7.72E-05	6.35E-06	2.11E-04	0.00E+00	2.95E-04
204	UCART3	439246	3762692.48	439246.01, 3762692.48	5.31307	5.10669	0.09296	8.41E-05	6.88E-06	2.32E-04	0.00E+00	3.23E-04

PHASE 1 OPERATIONAL PM2.5 24 HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
1.58E-05	1.35E-06	2.50E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s			Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
205	UCART3	439296	3762692.48	439296.01, 3762692.48	5.79928	5.54683	0.10241	9.18E-05	7.47E-06	2.56E-04	0.00E+00	3.55E-04
206	UCART3	439346	3762692.48	439346.01, 3762692.48	6.34305	6.04064	0.11327	1.00E-04	8.13E-06	2.83E-04	0.00E+00	3.91E-04
207	UCART3	439396	3762692.48	439396.01, 3762692.48	6.95093	6.59448	0.12579	1.10E-04	8.88E-06	3.14E-04	0.00E+00	4.33E-04
208	UCART3	439446	3762692.48	439446.01, 3762692.48	7.65001	7.23095	0.14021	1.21E-04	9.74E-06	3.50E-04	0.00E+00	4.81E-04
209	UCART3	439496	3762692.48	439496.01, 3762692.48	8.45888	7.96393	0.1617	1.34E-04	1.07E-05	4.04E-04	0.00E+00	5.48E-04
210	UCART3	439546	3762692.48	439546.01, 3762692.48	9.38901	8.80045	0.19238	1.49E-04	1.18E-05	4.80E-04	0.00E+00	6.41E-04
211	UCART3	439196	3762742.48	439196.01, 3762742.48	5.02043	4.81287	0.09082	7.95E-05	6.48E-06	2.27E-04	0.00E+00	3.13E-04
212	UCART3	439246	3762742.48	439246.01, 3762742.48	5.44059	5.19782	0.09941	8.61E-05	7.00E-06	2.48E-04	0.00E+00	3.41E-04
213	UCART3	439296	3762742.48	439296.01, 3762742.48	5.91202	5.62951	0.10899	9.36E-05	7.58E-06	2.72E-04	0.00E+00	3.73E-04
214	UCART3	439346	3762742.48	439346.01, 3762742.48	6.43815	6.1106	0.12015	1.02E-04	8.23E-06	3.00E-04	0.00E+00	4.10E-04
215	UCART3	439396	3762742.48	439396.01, 3762742.48	7.03285	6.65167	0.13318	1.11E-04	8.96E-06	3.33E-04	0.00E+00	4.53E-04
216	UCART3	439446	3762742.48	439446.01, 3762742.48	7.7127	7.2659	0.1487	1.22E-04	9.78E-06	3.71E-04	0.00E+00	5.03E-04
217	UCART3	439496	3762742.48	439496.01, 3762742.48	8.50735	7.98088	0.16729	1.35E-04	1.07E-05	4.18E-04	0.00E+00	5.63E-04
218	UCART3	439546	3762742.48	439546.01, 3762742.48	9.43189	8.81898	0.19113	1.49E-04	1.19E-05	4.77E-04	0.00E+00	6.38E-04
219	UCART3	439196	3762792.48	439196.01, 3762792.48	5.13462	4.89267	0.0958	8.13E-05	6.59E-06	2.39E-04	0.00E+00	3.27E-04
220	UCART3	439246	3762792.48	439246.01, 3762792.48	5.54397	5.26751	0.10464	8.77E-05	7.09E-06	2.61E-04	0.00E+00	3.56E-04
221	UCART3	439296	3762792.48	439296.01, 3762792.48	6.0063	5.68801	0.11446	9.51E-05	7.66E-06	2.86E-04	0.00E+00	3.89E-04
222	UCART3	439346	3762792.48	439346.01, 3762792.48	6.52525	6.15708	0.12599	1.03E-04	8.29E-06	3.15E-04	0.00E+00	4.26E-04
223	UCART3	439396	3762792.48	439396.01, 3762792.48	7.11475	6.68748	0.1398	1.13E-04	9.00E-06	3.49E-04	0.00E+00	4.71E-04
224	UCART3	439446	3762792.48	439446.01, 3762792.48	7.79084	7.29731	0.15674	1.23E-04	9.82E-06	3.91E-04	0.00E+00	5.25E-04
225	UCART3	439496	3762792.48	439496.01, 3762792.48	8.58858	8.02926	0.17748	1.36E-04	1.08E-05	4.43E-04	0.00E+00	5.90E-04
226	UCART3	439546	3762792.48	439546.01, 3762792.48	9.52549	8.91946	0.2042	1.51E-04	1.20E-05	5.10E-04	0.00E+00	6.73E-04
227	UCART3	439196	3762842.48	439196.01, 3762842.48	5.19317	4.92457	0.09874	8.22E-05	6.63E-06	2.47E-04	0.00E+00	3.35E-04
228	UCART3	439246	3762842.48	439246.01, 3762842.48	5.59406	5.2841	0.10747	8.85E-05	7.11E-06	2.68E-04	0.00E+00	3.64E-04
229	UCART3	439296	3762842.48	439296.01, 3762842.48	6.04098	5.68551	0.11734	9.56E-05	7.65E-06	2.93E-04	0.00E+00	3.96E-04
230	UCART3	439346	3762842.48	439346.01, 3762842.48	6.54564	6.13843	0.1289	1.04E-04	8.26E-06	3.22E-04	0.00E+00	4.34E-04
231	UCART3	439396	3762842.48	439396.01, 3762842.48	7.12219	6.66031	0.14259	1.13E-04	8.97E-06	3.56E-04	0.00E+00	4.78E-04
232	UCART3	439446	3762842.48	439446.01, 3762842.48	7.78579	7.27226	0.15929	1.23E-04	9.79E-06	3.98E-04	0.00E+00	5.31E-04
233	UCART3	439496	3762842.48	439496.01, 3762842.48	8.56149	8.01051	0.17963	1.35E-04	1.08E-05	4.49E-04	0.00E+00	5.95E-04
234	UCART3	439546	3762842.48	439546.01, 3762842.48	9.47623	8.89335	0.20514	1.50E-04	1.20E-05	5.12E-04	0.00E+00	6.74E-04
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	10.45368	9.45142	0.25672	1.65E-04	1.27E-05	6.41E-04	0.00E+00	8.19E-04
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	12.38273	11.04211	0.29814	1.96E-04	1.49E-05	7.44E-04	0.00E+00	9.55E-04
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	14.82738	12.94113	0.35023	2.35E-04	1.74E-05	8.75E-04	0.00E+00	1.13E-03
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	18.01242	15.18268	0.41833	2.85E-04	2.04E-05	1.04E-03	0.00E+00	1.35E-03
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	22.42644	17.83888	0.51453	3.55E-04	2.40E-05	1.28E-03	0.00E+00	1.66E-03
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	28.91525	21.02987	0.6687	4.58E-04	2.83E-05	1.67E-03	0.00E+00	2.16E-03
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	37.55192	26.14409	0.97224	5.94E-04	3.52E-05	2.43E-03	0.00E+00	3.06E-03
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	10.41076	9.4698	0.25639	1.65E-04	1.27E-05	6.40E-04	0.00E+00	8.18E-04
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	12.14438	10.84459	0.29724	1.92E-04	1.46E-05	7.42E-04	0.00E+00	9.49E-04
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	14.32593	12.68725	0.34598	2.27E-04	1.71E-05	8.64E-04	0.00E+00	1.11E-03
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	17.44306	15.09823	0.40467	2.76E-04	2.03E-05	1.01E-03	0.00E+00	1.31E-03
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	21.43451	17.99893	0.47652	3.39E-04	2.42E-05	1.19E-03	0.00E+00	1.55E-03
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	26.56363	21.5091	0.56627	4.20E-04	2.90E-05	1.41E-03	0.00E+00	1.86E-03
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	35.21136	26.69966	0.70717	5.57E-04	3.59E-05	1.77E-03	0.00E+00	2.36E-03
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	10.40852	9.59713	0.25352	1.65E-04	1.29E-05	6.33E-04	0.00E+00	8.11E-04
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	11.91134	10.91198	0.29708	1.89E-04	1.47E-05	7.42E-04	0.00E+00	9.45E-04
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	13.70126	12.50199	0.3501	2.17E-04	1.68E-05	8.74E-04	0.00E+00	1.11E-03
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	16.35908	14.85881	0.41498	2.59E-04	2.00E-05	1.04E-03	0.00E+00	1.32E-03
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	19.88112	18.06194	0.49566	3.15E-04	2.43E-05	1.24E-03	0.00E+00	1.58E-03
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	24.16614	22.09563	0.59799	3.82E-04	2.97E-05	1.49E-03	0.00E+00	1.91E-03
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	29.89444	27.40021	0.72826	4.73E-04	3.69E-05	1.82E-03	0.00E+00	2.33E-03
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	10.19028	9.4915	0.24503	1.61E-04	1.28E-05	6.12E-04	0.00E+00	7.86E-04
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	11.51154	10.67657	0.29266	1.82E-04	1.44E-05	7.31E-04	0.00E+00	9.27E-04
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	13.0847	12.06511	0.35395	2.07E-04	1.62E-05	8.84E-04	0.00E+00	1.11E-03
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	15.00788	14.07827	0.43475	2.38E-04	1.90E-05	1.09E-03	0.00E+00	1.34E-03
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	18.08884	17.3616	0.54737	2.86E-04	2.34E-05	1.37E-03	0.00E+00	1.68E-03
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	22.16966	21.55381	0.71503	3.51E-04	2.90E-05	1.79E-03	0.00E+00	2.17E-03
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	27.22299	26.9889	0.99951	4.31E-04	3.63E-05	2.50E-03	0.00E+00	2.96E-03
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	9.99743	9.34899	0.22576	1.58E-04	1.26E-05	5.64E-04	0.00E+00	7.35E-04
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	11.23409	10.4498	0.27387	1.78E-04	1.41E-05	6.84E-04	0.00E+00	8.76E-04
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	12.71712	11.78056	0.33952	2.01E-04	1.59E-05	8.48E-04	0.00E+00	1.06E-03
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	14.57007	13.52471	0.43084	2.31E-04	1.82E-05	1.08E-03	0.00E+00	1.32E-03
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	16.98438	15.97821	0.56421	2.69E-04	2.15E-05	1.41E-03	0.00E+00	1.70E-03
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	20.3978	20.40514	0.77365	3.23E-04	2.75E-05	1.93E-03	0.00E+00	2.28E-03
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	26.11576	27.176	1.13477	4.13E-04	3.66E-05	2.83E-03	0.00E+00	3.28E-03
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	2.76583	2.76911	0.06789	4.38E-05	3.73E-06	1.70E-04	0.00E+00	2.17E-04
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	2.78002	2.82916	0.06604	4.40E-05	3.81E-06	1.65E-04	0.00E+00	2.13E-04
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	2.77239	2.87404	0.06376	4.39E-05	3.87E-06	1.59E-04	0.00E+00	2.07E-04
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	2.73006	2.8896	0.061	4.32E-05	3.89E-06	1.52E-04	0.00E+00	1.99E-04
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	2.71295	2.87519	0.07421	4.29E-05	3.87E-06	1.85E-04	0.00E+00	2.32E-04
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	2.76189	2.82785	0.08988	4.37E-05	3.81E-06	2.24E-04	0.00E+00	2.72E-04
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	2.74045	2.81566	0.10529	4.34E-05	3.79E-06	2.63E-04	0.00E+00	3.10E-04
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	2.79047	2.81305	0.11888	4.42E-05	3.79E-06	2.97E-04	0.00E+00	3.45E-04
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	2.87972	2.91629	0.12896	4.56E-05	3.93E-06	3.22E-04	0.00E+00	3.72E-04
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	2.91846	2.88006	0.07167	4.62E-05	3.88E-06	1.79E-04	0.00E+00	2.29E-04
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	2.97821	2.98444	0.0703	4.71E-05	4.02E-06	1.76E-04	0.00E+00	2.27E-04
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	3.01256	3.07316	0.06845	4.77E-05	4.14E-06	1.71E-04	0.00E+00	2.23E-04
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	2.98726	3.11138	0.066	4.73E-05	4.19E-06	1.65E-04	0.00E+00	2.16E-04
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	2.92655	3.12062	0.06948	4.63E-05	4.20E-06	1.74E-04	0.00E+00	2.24E-04
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	2.92061	3.0954	0.08634	4.62E-05	4.17E-06	2.16E-04	0.00E+00	2.66E-04
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	2.94565	3.03082	0.1038	4.66E-05	4.08E-06	2.59E-04	0.00E+00	3.10E-04
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	2.91782	3.02287	0.12032	4.62E-05	4.07E-06	3.00E-04	0.00E+00	3.51E-04
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	3.03481	3.06603	0.13402	4.80E-05	4.13E-06	3.35E-04	0.00E+00	3.87E-04
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	3.05211	2.9694	0.07526	4.83E-05	4.00E-06	1.88E-04	0.00E+00	2.40E-04
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	3.15013	3.10762	0.07439	4.99E-05	4.18E-06	1.86E-04	0.00E+00	2.40E-04
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	3.21952	3.22972	0.07302	5.10E-05	4.35E-06	1.82E-04	0.00E+00	2.38E-04
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	3.23155	3.30749	0.07104	5.11E-05	4.45E-06	1.77E-04	0.00E+00	2.33E-04
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	3.19661	3.34934	0.06849	5.06E-05	4.51E-06	1.71E-04	0.00E+00	2.26E-04
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	3.12853	3.36644	0.08166	4.95E-05	4.53E-06	2.04E-04	0.00E+00	2.58E-04
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	3.14221	3.33834	0.10085	4.97E-05	4.49E-06	2.52E-04	0.00E+00	3.06E-04
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	3.1475	3.26419	0.12019	4.98E-05	4.39E-06	3.00E-04	0.00E+00	3.54E-04
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	3.19787	3.24608	0.13767	5.06E-05	4.37E-06	3.44E-04	0.00E+00	3.99E-04
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	3.1602	3.03406	0.07855	5.00E-05	4.09E-06	1.96E-04	0.00E+00	2.50E-04
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	3.29699	3.20307	0.07827	5.22E-05	4.31E-06	1.95E-04	0.00E+00	2.52E-04
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	3.41078	3.3636	0.07749	5.40E-05	4.53E-06	1.94E-04	0.00E+00	2.52E-04
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	3.47863	3.49471	0.07613	5.51E-05	4.71E-06	1.90E-04	0.00E+00	2.50E-04
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	3.48496	3.5809	0.07413	5.52E-05	4.82E-06	1.85E-04	0.00E+00	2.45E-04
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	3.45583	3.64651	0.07592	5.47E-05	4.91E-06	1.90E-04	0.00E+00	2.49E-04
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	3.37152	3.66769	0.09641	5.34E-05	4.94E-06	2.41E-04	0.00E+00	2.99E-04
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	3.39374	3.62543	0.11825	5.37E-05	4.88E-06	2.95E-04	0.00E+00	3.54E-04
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	3.37296	3.5382	0.13951	5.34E-05	4.76E-06	3.48E-04	0.00E+00	4.07E-04
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	3.23442	3.07025	0.08145	5.12E-05	4.13E-06	2.03E-04	0.00E+00	2.59E-04

PHASE 1 OPERATIONAL PM2.5 24 HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
1.58E-05	1.35E-06	2.50E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s			Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	3.42184	3.2776	0.08186	5.42E-05	4.41E-06	2.04E-04	0.00E+00	2.63E-04
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	3.58894	3.48062	0.08179	5.68E-05	4.69E-06	2.04E-04	0.00E+00	2.66E-04
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	3.71578	3.66273	0.08115	5.88E-05	4.93E-06	2.03E-04	0.00E+00	2.66E-04
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	3.78446	3.80832	0.07986	5.99E-05	5.13E-06	1.99E-04	0.00E+00	2.64E-04
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	3.80505	3.92765	0.07794	6.02E-05	5.29E-06	1.95E-04	0.00E+00	2.60E-04
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	3.75713	3.99879	0.09056	5.95E-05	5.38E-06	2.26E-04	0.00E+00	2.91E-04
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	3.64817	4.02226	0.11441	5.77E-05	5.42E-06	2.86E-04	0.00E+00	3.49E-04
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	3.68972	3.97863	0.13921	5.84E-05	5.36E-06	3.48E-04	0.00E+00	4.11E-04
315	UCART5	439152.4	3761698.92	439152.35, 3761698.92	3.27629	3.30008	0.08388	5.19E-05	4.44E-06	2.09E-04	0.00E+00	2.66E-04
316	UCART5	439202.4	3761698.92	439202.35, 3761698.92	3.50775	3.32014	0.08502	5.55E-05	4.47E-06	2.12E-04	0.00E+00	2.72E-04
317	UCART5	439252.4	3761698.92	439252.35, 3761698.92	3.72005	3.55384	0.08572	5.89E-05	4.78E-06	2.14E-04	0.00E+00	2.78E-04
318	UCART5	439302.4	3761698.92	439302.35, 3761698.92	3.9129	3.78757	0.08592	6.19E-05	5.10E-06	2.15E-04	0.00E+00	2.82E-04
319	UCART5	439352.4	3761698.92	439352.35, 3761698.92	4.06334	4.0035	0.08553	6.43E-05	5.39E-06	2.14E-04	0.00E+00	2.83E-04
320	UCART5	439402.4	3761698.92	439402.35, 3761698.92	4.15924	4.1934	0.08448	6.58E-05	5.65E-06	2.11E-04	0.00E+00	2.82E-04
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	4.153	4.31204	0.08345	6.57E-05	5.81E-06	2.08E-04	0.00E+00	2.80E-04
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	4.10117	4.41237	0.1087	6.49E-05	5.94E-06	2.71E-04	0.00E+00	3.42E-04
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	3.99405	4.44191	0.13656	6.32E-05	5.98E-06	3.41E-04	0.00E+00	4.10E-04
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	3.51192	3.52278	0.08569	5.56E-05	4.74E-06	2.14E-04	0.00E+00	2.74E-04
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	3.55797	3.59353	0.08765	5.63E-05	4.84E-06	2.19E-04	0.00E+00	2.80E-04
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	3.81716	3.62183	0.0892	6.04E-05	4.88E-06	2.23E-04	0.00E+00	2.88E-04
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	4.07784	3.88335	0.09036	6.45E-05	5.23E-06	2.26E-04	0.00E+00	2.95E-04
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	4.29779	4.1505	0.09098	6.80E-05	5.59E-06	2.27E-04	0.00E+00	3.01E-04
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	4.46755	4.3995	0.09095	7.07E-05	5.92E-06	2.27E-04	0.00E+00	3.04E-04
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	4.55347	4.60365	0.09018	7.21E-05	6.20E-06	2.25E-04	0.00E+00	3.03E-04
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	4.54767	4.75737	0.10129	7.20E-05	6.41E-06	2.53E-04	0.00E+00	3.31E-04
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	4.47506	4.88201	0.13149	7.08E-05	6.57E-06	3.28E-04	0.00E+00	4.06E-04
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	3.76797	3.72048	0.08681	5.96E-05	5.01E-06	2.17E-04	0.00E+00	2.81E-04
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	3.84738	3.8467	0.08963	6.09E-05	5.18E-06	2.24E-04	0.00E+00	2.90E-04
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	3.88718	3.93587	0.09214	6.15E-05	5.30E-06	2.30E-04	0.00E+00	2.97E-04
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	4.21533	4.00465	0.09433	6.67E-05	5.39E-06	2.36E-04	0.00E+00	3.08E-04
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	4.49748	4.26713	0.09605	7.12E-05	5.75E-06	2.40E-04	0.00E+00	3.17E-04
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	4.75066	4.57517	0.09726	7.52E-05	6.16E-06	2.43E-04	0.00E+00	3.24E-04
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	4.95643	4.87755	0.09782	7.84E-05	6.57E-06	2.44E-04	0.00E+00	3.29E-04
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	5.0319	5.10484	0.09752	7.96E-05	6.87E-06	2.44E-04	0.00E+00	3.30E-04
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	5.05021	5.33278	0.12395	7.99E-05	7.18E-06	3.10E-04	0.00E+00	3.97E-04
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	3.98714	3.88818	0.08711	6.31E-05	5.23E-06	2.18E-04	0.00E+00	2.86E-04
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	4.13329	4.06503	0.09078	6.54E-05	5.47E-06	2.27E-04	0.00E+00	2.98E-04
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	4.22714	4.21004	0.09427	6.69E-05	5.67E-06	2.35E-04	0.00E+00	3.08E-04
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	4.27891	4.33841	0.09758	6.77E-05	5.84E-06	2.44E-04	0.00E+00	3.17E-04
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	4.63404	4.41497	0.10056	7.33E-05	5.94E-06	2.51E-04	0.00E+00	3.30E-04
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	5.00715	4.7292	0.1032	7.92E-05	6.37E-06	2.58E-04	0.00E+00	3.43E-04
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	5.31123	5.09691	0.10528	8.41E-05	6.86E-06	2.63E-04	0.00E+00	3.54E-04
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	5.50367	5.41321	0.10667	8.71E-05	7.29E-06	2.66E-04	0.00E+00	3.61E-04
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	5.64735	5.75308	0.11424	8.94E-05	7.75E-06	2.85E-04	0.00E+00	3.82E-04
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	4.16672	4.02544	0.08654	6.59E-05	5.42E-06	2.16E-04	0.00E+00	2.87E-04
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	4.37569	4.24789	0.09103	6.93E-05	5.72E-06	2.27E-04	0.00E+00	3.02E-04
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	4.54786	4.4515	0.09552	7.20E-05	5.99E-06	2.39E-04	0.00E+00	3.16E-04
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	4.70445	4.66219	0.1	7.45E-05	6.28E-06	2.50E-04	0.00E+00	3.30E-04
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	4.77939	4.82394	0.10434	7.56E-05	6.49E-06	2.61E-04	0.00E+00	3.43E-04
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	5.18897	4.94917	0.10848	8.21E-05	6.66E-06	2.71E-04	0.00E+00	3.60E-04
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	5.63822	5.29487	0.11232	8.92E-05	7.13E-06	2.80E-04	0.00E+00	3.77E-04
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	6.00733	5.73851	0.11569	9.51E-05	7.73E-06	2.89E-04	0.00E+00	3.92E-04
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	6.2823	6.16954	0.11835	9.94E-05	8.31E-06	2.96E-04	0.00E+00	4.03E-04
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	4.29772	4.12519	0.08502	6.80E-05	5.55E-06	2.12E-04	0.00E+00	2.86E-04
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	4.56494	4.38836	0.09026	7.22E-05	5.91E-06	2.25E-04	0.00E+00	3.04E-04
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	4.81183	4.64554	0.09568	7.62E-05	6.25E-06	2.39E-04	0.00E+00	3.21E-04
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	5.06936	4.93135	0.10133	8.02E-05	6.64E-06	2.53E-04	0.00E+00	3.40E-04
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	5.26498	5.18483	0.10706	8.33E-05	6.98E-06	2.67E-04	0.00E+00	3.58E-04
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	5.37883	5.39665	0.11284	8.51E-05	7.27E-06	2.82E-04	0.00E+00	3.74E-04
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	5.87382	5.60447	0.1186	9.30E-05	7.55E-06	2.96E-04	0.00E+00	3.97E-04
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	6.41161	5.97736	0.1242	1.01E-04	8.05E-06	3.10E-04	0.00E+00	4.20E-04
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	6.87985	6.53208	0.12944	1.09E-04	8.79E-06	3.23E-04	0.00E+00	4.41E-04
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	4.46428	4.25081	0.08254	7.07E-05	5.72E-06	2.06E-04	0.00E+00	2.82E-04
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	4.70036	4.48751	0.08843	7.44E-05	6.04E-06	2.21E-04	0.00E+00	3.01E-04
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	5.01461	4.79049	0.0947	7.94E-05	6.45E-06	2.36E-04	0.00E+00	3.22E-04
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	5.36596	5.14231	0.10142	8.49E-05	6.92E-06	2.53E-04	0.00E+00	3.45E-04
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	5.6874	5.48815	0.10851	9.00E-05	7.39E-06	2.71E-04	0.00E+00	3.68E-04
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	5.93182	5.79325	0.11594	9.39E-05	7.80E-06	2.90E-04	0.00E+00	3.91E-04
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	6.12932	6.09889	0.12372	9.70E-05	8.21E-06	3.09E-04	0.00E+00	4.14E-04
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	6.67353	6.36984	0.13177	1.06E-04	8.58E-06	3.29E-04	0.00E+00	4.43E-04
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	7.34641	6.78412	0.13996	1.16E-04	9.13E-06	3.50E-04	0.00E+00	4.75E-04
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	4.67317	4.35586	0.07907	7.40E-05	5.86E-06	1.97E-04	0.00E+00	2.77E-04
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	4.94703	4.63374	0.08554	7.83E-05	6.24E-06	2.14E-04	0.00E+00	2.98E-04
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	5.21529	4.92744	0.09254	8.25E-05	6.63E-06	2.31E-04	0.00E+00	3.20E-04
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	5.60774	5.31073	0.10018	8.87E-05	7.15E-06	2.50E-04	0.00E+00	3.46E-04
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	6.02097	5.71362	0.10847	9.53E-05	7.69E-06	2.71E-04	0.00E+00	3.74E-04
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	6.41214	6.12152	0.11748	1.01E-04	8.24E-06	2.93E-04	0.00E+00	4.03E-04
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	6.78156	6.54651	0.12727	1.07E-04	8.81E-06	3.18E-04	0.00E+00	4.34E-04
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	7.07539	6.95691	0.13786	1.12E-04	9.37E-06	3.44E-04	0.00E+00	4.66E-04
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	7.7108	7.34228	0.14925	1.22E-04	9.89E-06	3.73E-04	0.00E+00	5.05E-04
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	2.76375	2.91726	0.12828	4.37E-05	3.93E-06	3.20E-04	0.00E+00	3.68E-04
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	2.94469	2.96004	0.12335	4.66E-05	3.99E-06	3.08E-04	0.00E+00	3.59E-04
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	3.13259	3.18563	0.11251	4.96E-05	4.29E-06	2.81E-04	0.00E+00	3.35E-04
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	3.2553	3.36967	0.09696	5.15E-05	4.54E-06	2.42E-04	0.00E+00	2.98E-04
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	3.29852	3.47624	0.07871	5.22E-05	4.68E-06	1.97E-04	0.00E+00	2.53E-04
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	3.2739	3.5109	0.06433	5.18E-05	4.73E-06	1.61E-04	0.00E+00	2.17E-04
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	2.97485	3.10102	0.13855	4.71E-05	4.18E-06	3.46E-04	0.00E+00	3.97E-04
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	3.06277	3.16444	0.13652	4.85E-05	4.26E-06	3.41E-04	0.00E+00	3.94E-04
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	3.29051	3.32847	0.12744	5.21E-05	4.48E-06	3.18E-04	0.00E+00	3.75E-04
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	3.45043	3.56038	0.1122	5.46E-05	4.79E-06	2.80E-04	0.00E+00	3.40E-04
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	3.5237	3.71018	0.09281	5.58E-05	5.00E-06	2.32E-04	0.00E+00	2.93E-04
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	3.52118	3.78079	0.07191	5.57E-05	5.09E-06	1.80E-04	0.00E+00	2.40E-04
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	3.19075	3.28523	0.14837	5.05E-05	4.42E-06	3.71E-04	0.00E+00	4.25E-04
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	3.18439	3.38019	0.15013	5.04E-05	4.55E-06	3.75E-04	0.00E+00	4.30E-04
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	3.45805	3.47419	0.14371	5.47E-05	4.68E-06	3.59E-04	0.00E+00	4.18E-04
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	3.66638	3.76667	0.12954	5.80E-05	5.07E-06	3.23E-04	0.00E+00	3.87E-04
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	3.77795	3.97144	0.10942	5.98E-05	5.35E-06	2.73E-04	0.00E+00	3.38E-04
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	3.79838	4.08295	0.08632	6.01E-05	5.50E-06	2.16E-04	0.00E+00	2.81E-04
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	3.4154	3.49533	0.15727	5.41E-05	4.71E-06	3.93E-04	0.00E+00	4.51E-04
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	3.42919	3.60504	0.16378	5.43E-05	4.85E-06	4.09E-04	0.00E+00	4.68E-04
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	3.6367	3.72252	0.16118	5.76E-05	5.01E-06	4.02E-04	0.00E+00	4.65E-04
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	3.89851	3.9812	0.14911	6.17E-05	5.36E-06	3.72E-04	0.00E+00	4.39E-04

PHASE 1 OPERATIONAL PM2.5 24 HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
1.58E-05	1.35E-06	2.50E-03

Discrete Receptor ID	X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s			Concentration (AVERAGE CONC) [ug/m^3]				
				Onsite Running	Onsite Idle	Generator	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
409 UCART6	439816.6	3761570.65	439816.61, 3761570.65	4.05951	4.25577	0.12895	6.42E-05	5.73E-06	3.22E-04	0.00E+00	3.92E-04
410 UCART6	439866.6	3761570.65	439866.61, 3761570.65	4.10609	4.41686	0.10382	6.50E-05	5.95E-06	2.59E-04	0.00E+00	3.30E-04
411 UCART7	440451.1	3762893.83	440451.14, 3762893.83	22.93889	26.594	0.46199	3.63E-04	3.58E-05	1.15E-03	0.00E+00	1.55E-03
412 UCART7	440501.1	3762893.83	440501.14, 3762893.83	20.68432	22.69231	0.3543	3.27E-04	3.06E-05	8.85E-04	0.00E+00	1.24E-03
413 UCART7	440551.1	3762893.83	440551.14, 3762893.83	18.49379	19.13357	0.29536	2.93E-04	2.58E-05	7.38E-04	0.00E+00	1.06E-03
414 UCART7	440601.1	3762893.83	440601.14, 3762893.83	16.44574	16.44454	0.2575	2.60E-04	2.21E-05	6.43E-04	0.00E+00	9.25E-04
415 UCART7	440651.1	3762893.83	440651.14, 3762893.83	14.46881	14.35574	0.22235	2.29E-04	1.93E-05	5.55E-04	0.00E+00	8.04E-04
416 UCART7	440701.1	3762893.83	440701.14, 3762893.83	12.75753	12.70834	0.19261	2.02E-04	1.71E-05	4.81E-04	0.00E+00	7.00E-04
417 UCART7	440751.1	3762893.83	440751.14, 3762893.83	11.13651	11.20504	0.16857	1.76E-04	1.51E-05	4.21E-04	0.00E+00	6.12E-04
418 UCART7	440801.1	3762893.83	440801.14, 3762893.83	10.17519	9.97478	0.14989	1.61E-04	1.34E-05	3.74E-04	0.00E+00	5.49E-04
419 UCART7	440851.1	3762893.83	440851.14, 3762893.83	9.52801	9.17178	0.13513	1.51E-04	1.23E-05	3.37E-04	0.00E+00	5.01E-04
420 UCART7	440451.1	3762943.83	440451.14, 3762943.83	19.42005	20.48645	0.43152	3.07E-04	2.76E-05	1.08E-03	0.00E+00	1.41E-03
421 UCART7	440501.1	3762943.83	440501.14, 3762943.83	18.02764	18.89627	0.33294	2.85E-04	2.54E-05	8.31E-04	0.00E+00	1.14E-03
422 UCART7	440551.1	3762943.83	440551.14, 3762943.83	16.64423	17.20028	0.27408	2.63E-04	2.32E-05	6.84E-04	0.00E+00	9.71E-04
423 UCART7	440601.1	3762943.83	440601.14, 3762943.83	15.25647	15.3699	0.22455	2.41E-04	2.07E-05	5.61E-04	0.00E+00	8.23E-04
424 UCART7	440651.1	3762943.83	440651.14, 3762943.83	13.8437	13.68626	0.19887	2.19E-04	1.84E-05	4.97E-04	0.00E+00	7.34E-04
425 UCART7	440701.1	3762943.83	440701.14, 3762943.83	12.73097	12.24595	0.18226	2.01E-04	1.65E-05	4.55E-04	0.00E+00	6.73E-04
426 UCART7	440751.1	3762943.83	440751.14, 3762943.83	11.46445	10.98313	0.1649	1.81E-04	1.48E-05	4.12E-04	0.00E+00	6.08E-04
427 UCART7	440801.1	3762943.83	440801.14, 3762943.83	10.33456	9.97297	0.14942	1.64E-04	1.34E-05	3.73E-04	0.00E+00	5.50E-04
428 UCART7	440851.1	3762943.83	440851.14, 3762943.83	9.22375	9.08853	0.13566	1.46E-04	1.22E-05	3.39E-04	0.00E+00	4.97E-04
429 UCART8	441116.7	3763135.31	441116.67, 3763135.31	6.38388	6.09835	0.07295	1.01E-04	8.21E-06	1.82E-04	0.00E+00	2.91E-04
430 UCART8	441166.7	3763135.31	441166.67, 3763135.31	5.86977	5.69138	0.06851	9.29E-05	7.66E-06	1.71E-04	0.00E+00	2.72E-04
431 UCART8	441116.7	3763185.31	441116.67, 3763185.31	6.39709	6.02804	0.06856	1.01E-04	8.12E-06	1.71E-04	0.00E+00	2.81E-04
432 UCART8	441166.7	3763185.31	441166.67, 3763185.31	5.95011	5.66568	0.0657	9.42E-05	7.63E-06	1.64E-04	0.00E+00	2.66E-04
433 UCART8	441116.7	3763235.31	441116.67, 3763235.31	6.28103	5.75614	0.06176	9.94E-05	7.75E-06	1.54E-04	0.00E+00	2.61E-04
434 UCART8	441166.7	3763235.31	441166.67, 3763235.31	5.88777	5.53101	0.06058	9.32E-05	7.45E-06	1.51E-04	0.00E+00	2.52E-04
435 UCART8	441116.7	3763285.31	441116.67, 3763285.31	6.09226	5.66248	0.05421	9.64E-05	7.62E-06	1.35E-04	0.00E+00	2.39E-04
436 UCART8	441166.7	3763285.31	441166.67, 3763285.31	5.82457	5.39913	0.05363	9.22E-05	7.27E-06	1.34E-04	0.00E+00	2.33E-04
437 UCART8	441116.7	3763335.31	441116.67, 3763335.31	5.70696	5.42452	0.05546	9.03E-05	7.30E-06	1.38E-04	0.00E+00	2.36E-04
438 UCART8	441166.7	3763335.31	441166.67, 3763335.31	5.54793	5.2004	0.04917	8.78E-05	7.00E-06	1.23E-04	0.00E+00	2.18E-04
439 UCART8	441116.7	3763385.31	441116.67, 3763385.31	5.39531	5.10499	0.05732	8.54E-05	6.87E-06	1.43E-04	0.00E+00	2.35E-04
440 UCART8	441166.7	3763385.31	441166.67, 3763385.31	5.26941	4.99876	0.05162	8.34E-05	6.73E-06	1.29E-04	0.00E+00	2.19E-04
441 UCART8	441116.7	3763435.31	441116.67, 3763435.31	5.02067	4.73083	0.05823	7.95E-05	6.37E-06	1.45E-04	0.00E+00	2.31E-04
442 UCART8	441166.7	3763435.31	441166.67, 3763435.31	4.96264	4.68844	0.05292	7.85E-05	6.31E-06	1.32E-04	0.00E+00	2.17E-04
443 UCART9	440433.4	3762815.13	440433.43, 3762815.13	29.58043	35.45622	0.56509	4.68E-04	4.77E-05	1.41E-03	0.00E+00	1.93E-03
444 UCART9	440483.4	3762815.13	440483.43, 3762815.13	25.54871	27.89126	0.42051	4.04E-04	3.76E-05	1.05E-03	0.00E+00	1.49E-03
445 UCART9	440533.4	3762815.13	440533.43, 3762815.13	21.51985	23.10266	0.32097	3.41E-04	3.11E-05	8.02E-04	0.00E+00	1.17E-03
446 UCART9	440583.4	3762815.13	440583.43, 3762815.13	17.90877	19.54151	0.2642	2.83E-04	2.63E-05	6.60E-04	0.00E+00	9.69E-04
447 UCART9	440633.4	3762815.13	440633.43, 3762815.13	16.47383	16.94776	0.2226	2.61E-04	2.28E-05	5.56E-04	0.00E+00	8.39E-04
448 UCART9	440683.4	3762815.13	440683.43, 3762815.13	15.18157	14.96157	0.19082	2.40E-04	2.01E-05	4.77E-04	0.00E+00	7.37E-04
449 UCART9	440733.4	3762815.13	440733.43, 3762815.13	14.01813	13.38555	0.16611	2.22E-04	1.80E-05	4.15E-04	0.00E+00	6.55E-04
450 UCART9	440783.4	3762815.13	440783.43, 3762815.13	12.97521	12.14684	0.14754	2.05E-04	1.64E-05	3.68E-04	0.00E+00	5.90E-04
451 UCART9	440833.4	3762815.13	440833.43, 3762815.13	12.0351	11.11059	0.13453	1.90E-04	1.50E-05	3.36E-04	0.00E+00	5.41E-04
452 UCART9	440883.4	3762815.13	440883.43, 3762815.13	11.19056	10.25613	0.12242	1.77E-04	1.38E-05	3.06E-04	0.00E+00	4.97E-04
453 UCART9	440933.4	3762815.13	440933.43, 3762815.13	10.4255	9.4926	0.11078	1.65E-04	1.28E-05	2.77E-04	0.00E+00	4.54E-04
454 UCART9	440983.4	3762815.13	440983.43, 3762815.13	9.73021	8.84242	0.09962	1.54E-04	1.19E-05	2.49E-04	0.00E+00	4.15E-04
455 UCART9	440433.4	3762865.13	440433.43, 3762865.13	25.92716	32.46072	0.53655	4.10E-04	4.37E-05	1.34E-03	0.00E+00	1.79E-03
456 UCART9	440483.4	3762865.13	440483.43, 3762865.13	22.98333	25.7304	0.40335	3.64E-04	3.46E-05	1.01E-03	0.00E+00	1.41E-03
457 UCART9	440533.4	3762865.13	440533.43, 3762865.13	20.22807	20.81297	0.33696	3.20E-04	2.80E-05	8.41E-04	0.00E+00	1.19E-03
458 UCART9	440583.4	3762865.13	440583.43, 3762865.13	17.65849	17.40259	0.27949	2.79E-04	2.34E-05	6.98E-04	0.00E+00	1.00E-03
459 UCART9	440633.4	3762865.13	440633.43, 3762865.13	15.27181	14.96851	0.23328	2.42E-04	2.02E-05	5.83E-04	0.00E+00	8.44E-04
460 UCART9	440683.4	3762865.13	440683.43, 3762865.13	13.06413	13.09227	0.19819	2.07E-04	1.76E-05	4.95E-04	0.00E+00	7.19E-04
461 UCART9	440733.4	3762865.13	440733.43, 3762865.13	11.98485	11.90531	0.17215	1.90E-04	1.60E-05	4.30E-04	0.00E+00	6.36E-04
462 UCART9	440783.4	3762865.13	440783.43, 3762865.13	11.2879	10.97836	0.15281	1.79E-04	1.48E-05	3.82E-04	0.00E+00	5.75E-04
463 UCART9	440833.4	3762865.13	440833.43, 3762865.13	10.6384	10.18447	0.13782	1.68E-04	1.37E-05	3.44E-04	0.00E+00	5.26E-04
464 UCART9	440883.4	3762865.13	440883.43, 3762865.13	10.02934	9.49572	0.12539	1.59E-04	1.28E-05	3.13E-04	0.00E+00	4.85E-04
465 UCART9	440933.4	3762865.13	440933.43, 3762865.13	9.46018	8.8703	0.11444	1.50E-04	1.19E-05	2.86E-04	0.00E+00	4.47E-04
466 UCART9	440983.4	3762865.13	440983.43, 3762865.13	8.93374	8.31665	0.1044	1.41E-04	1.12E-05	2.61E-04	0.00E+00	4.13E-04
467 UCART10	441118.3	3762686.02	441118.27, 3762686.02	7.71125	7.20878	0.08814	1.22E-04	9.71E-06	2.20E-04	0.00E+00	3.52E-04
468 UCART10	441168.3	3762686.02	441168.27, 3762686.02	7.20975	6.79581	0.0806	1.14E-04	9.15E-06	2.01E-04	0.00E+00	3.25E-04
469 UCART10	441118.3	3762736.02	441118.27, 3762736.02	8.18991	7.48201	0.08449	1.30E-04	1.01E-05	2.11E-04	0.00E+00	3.51E-04
470 UCART10	441168.3	3762736.02	441168.27, 3762736.02	7.6497	7.03341	0.07802	1.21E-04	9.47E-06	1.95E-04	0.00E+00	3.25E-04
471 UCART10	441118.3	3762786.02	441118.27, 3762786.02	8.28597	7.52437	0.08225	1.31E-04	1.01E-05	2.05E-04	0.00E+00	3.47E-04
472 UCART10	441168.3	3762786.02	441168.27, 3762786.02	7.76896	7.08826	0.07619	1.23E-04	9.54E-06	1.90E-04	0.00E+00	3.23E-04
473 UCART10	441118.3	3762836.02	441118.27, 3762836.02	7.99994	7.32469	0.07662	1.27E-04	9.86E-06	1.91E-04	0.00E+00	3.28E-04
474 UCART10	441168.3	3762836.02	441168.27, 3762836.02	7.54808	6.91571	0.07134	1.19E-04	9.31E-06	1.78E-04	0.00E+00	3.07E-04
475 UCART11	440411.7	3762093.41	440411.67, 3762093.41	8.45887	9.34181	0.19929	1.34E-04	1.26E-05	4.98E-04	0.00E+00	6.44E-04
476 UCART11	440461.7	3762093.41	440461.67, 3762093.41	7.72677	8.65813	0.18484	1.22E-04	1.17E-05	4.62E-04	0.00E+00	5.96E-04
477 UCART11	440511.7	3762093.41	440511.67, 3762093.41	7.19947	8.0033	0.17174	1.14E-04	1.08E-05	4.29E-04	0.00E+00	5.54E-04
478 UCART11	440561.7	3762093.41	440561.67, 3762093.41	6.74608	7.3161	0.1585	1.07E-04	9.85E-06	3.96E-04	0.00E+00	5.12E-04
479 UCART11	440611.7	3762093.41	440611.67, 3762093.41	6.17382	6.61137	0.14444	9.77E-05	8.90E-06	3.61E-04	0.00E+00	4.67E-04
480 UCART11	440411.7	3762143.41	440411.67, 3762143.41	9.34904	10.53361	0.22644	1.48E-04	1.42E-05	5.65E-04	0.00E+00	7.28E-04
481 UCART11	440461.7	3762143.41	440461.67, 3762143.41	8.49102	9.65239	0.20961	1.34E-04	1.30E-05	5.23E-04	0.00E+00	6.71E-04
482 UCART11	440511.7	3762143.41	440511.67, 3762143.41	8.00292	8.80349	0.19316	1.27E-04	1.19E-05	4.82E-04	0.00E+00	6.21E-04
483 UCART11	440561.7	3762143.41	440561.67, 3762143.41	7.36423	7.91803	0.17545	1.17E-04	1.07E-05	4.38E-04	0.00E+00	5.65E-04
484 UCART11	440611.7	3762143.41	440611.67, 3762143.41	6.62177	7.06629	0.15638	1.05E-04	9.51E-06	3.91E-04	0.00E+00	5.05E-04
485 UCART12	440406.6	3762008.86	440406.61, 3762008.86	7.18988	7.9291	0.1644	1.14E-04	1.07E-05	4.11E-04	0.00E+00	5.35E-04
486 UCART12	440456.6	3762008.86	440456.61, 3762008.86	6.71755	7.25152	0.14822	1.06E-04	9.76E-06	3.70E-04	0.00E+00	4.86E-04
487 UCART12	440506.6	3762008.86	440506.61, 3762008.86	6.17114	6.77999	0.14081	9.77E-05	9.13E-06	3.52E-04	0.00E+00	4.58E-04
488 UCART12	440556.6	3762008.86	440556.61, 3762008.86	5.809	6.32645	0.13332	9.19E-05	8.52E-06	3.33E-04	0.00E+00	4.33E-04
489 UCART12	440606.6	3762008.86	440606.61, 3762008.86	5.47087	5.8499	0.12528	8.66E-05	7.88E-06	3.13E-04	0.00E+00	4.07E-04
490 UCART12	440656.6	3762008.86	440656.61, 3762008.86	5.05062	5.359	0.1165	7.99E-05	7.22E-06	2.91E-04	0.00E+00	3.78E-04
491 UCART12	440706.6	3762008.86	440706.61, 3762008.86	4.57826	4.87568	0.10704	7.25E-05	6.56E-06	2.67E-04	0.00E+00	3.46E-04
492 UCART12	440756.6	3762008.86	440756.61, 3762008.86	4.10681	4.41864	0.10065	6.50E-05	5.95E-06	2.51E-04	0.00E+00	3.22E-04
493 UCART12	440806.6	3762008.86	440806.61, 3762008.86	3.6687	3.98691	0.09909	5.81E-05	5.37E-06	2.47E-04	0.00E+00	3.11E-04
494 UCART12	440856.6	3762008.86	440856.61, 3762008.86	3.31719	3.70845	0.0969	5.25E-05	4.99E-06	2.42E-04	0.00E+00	2.99E-04
495 UCART12	440906.6	3762008.86	440906.61, 3762008.86	3.17964	3.68246	0.09416	5.03E-05	4.96E-06	2.35E-04	0.00E+00	2.90E-04
496 UCART12	440956.6	3762008.86	440956.61, 3762008.86	3.11025	3.63774	0.09086	4.92E-05	4.90E-06	2.27E-04	0.00E+00	2.81E-04
497 UCART12	441006.6	3762008.86	441006.61, 3762008.86	3.13741	3.58956	0.08721	4.97E-05	4.83E-06	2.18E-04	0.00E+00	2.72E-04
498 UCART12	441056.6	3762008.86	441056.61, 3762008.86	3.15288	3.52852	0.08326	4.99E-05	4.75E-06	2.08E-04	0.00E+00	2.63E-04
499 UCART12	441106.6	3762008.86	441106.61, 3762008.86	3.1682	3.46834	0.07918	5.01E-05	4.67E-06	1.98E-04	0.00E+00	2.53E-04
500 UCART12	441156.6	3762008.86	441156.61, 3762008.86	3.17555	3.40255	0.07503	5.03E-05	4.58E-06	1.87E-04	0.00E+00	2.42E-04
501 UCART12	440406.6	3762058.86	440406.61, 3762058.86	7.94586	8.75711	0.18256	1.26E-04	1.18E-05	4.56E-04	0.00E+00	5.93E-04
502 UCART12	440456.6	3762058.86	440456.61, 3762058.86	7.343	8.06135	0.1703	1.16E-04	1.09E-05	4.25E-04	0.00E+00	5.52E-04
503 UCART12	440506.6	3762058.86	440506.61, 3762058.86	6.72703	7.51395	0.15938	1.06E-04	1.01E-05	3.98E-04	0.00E+00	5.15E-04
504 UCART12	440556.6	3762058.86	440556.61, 3762058.86	6.37297	6.9416	0.14865	1.01E-04	9.35E-06	3.71E-04	0.00E+00	4.81E-04
505 UCART12	440606.6	3762058.86	440606.61, 3762058.86	5.91731	6.34141	0.13738	9.36E-05	8.54E-06	3.43E-04	0.00E+00	4.45E-04
506 UCART12	440656.6	3762058.86	440656.61, 3762058.86	5.38101	5.74646	0.12533	8.52E-05	7.74E-06	3.13E-04	0.00E+00	4.06E-04
507 UCART12	440706.6	3762058.86	440706.61, 3762058.86	4.8219	5.18351	0.11282	7.63E-05	6.98E-06	2.82E-04	0.00E+00	3.65E-04
508 UCART12	440756.6	3762058.86	440756.61, 3762058.86	4.29645	4.66261	0.10824	6.80E-05	6.28E-06	2.70E-04	0.00E+00	3.45E-04
509 UCART12	440806.6	3762058.86	440806.61, 3762058.86	3.83867	4.24576	0.10508	6.08E-05	5.72E-06	2.62E-04	0.00E+00	3.29E-04
510 UCART12	440856.6	3762058.86	440856.61, 3762058.86	3.52584	4.16853	0.10153	5.58E-05	5.61E-06	2.54E-04	0.00E+00	3.15E-04

PHASE 1 OPERATIONAL PM2.5 24 HOUR

Unmitigated Onsite Running	Onsite Idle	Generator
1.58E-05	1.35E-06	2.50E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s: Onsite Running	Onsite Idle	Generator	Concentration (AVERAGE CONC) [ug/m^3]: Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	3.52381	4.09742	0.09771	5.58E-05	5.52E-06	2.44E-04	0.00E+00	3.05E-04
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	3.54148	4.01853	0.09371	5.60E-05	5.41E-06	2.34E-04	0.00E+00	2.95E-04
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	3.55335	3.93583	0.0896	5.62E-05	5.30E-06	2.24E-04	0.00E+00	2.85E-04
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	3.55812	3.84965	0.08546	5.63E-05	5.18E-06	2.13E-04	0.00E+00	2.75E-04
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	3.5517	3.75779	0.08132	5.62E-05	5.06E-06	2.03E-04	0.00E+00	2.64E-04
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	3.532	3.66021	0.07725	5.59E-05	4.93E-06	1.93E-04	0.00E+00	2.54E-04
517	ONSITE	440191.4	3762138.44	440191.38, 3762138.44	12.79285	19.23847	0.56559	2.02E-04	2.59E-05	1.41E-03	0.00E+00	1.64E-03
518	ONSITE	440241.4	3762138.44	440241.38, 3762138.44	11.68223	15.73363	0.3838	1.85E-04	2.12E-05	9.58E-04	0.00E+00	1.16E-03
519	ONSITE	440291.4	3762138.44	440291.38, 3762138.44	10.90968	13.44973	0.30044	1.73E-04	1.81E-05	7.50E-04	0.00E+00	9.41E-04
520	ONSITE	440341.4	3762138.44	440341.38, 3762138.44	10.22588	11.81548	0.25759	1.62E-04	1.59E-05	6.43E-04	0.00E+00	8.21E-04
521	ONSITE	440191.4	3762188.44	440191.38, 3762188.44	14.90418	23.9641	0.96823	2.36E-04	3.23E-05	2.42E-03	0.00E+00	2.69E-03
522	ONSITE	440241.4	3762188.44	440241.38, 3762188.44	13.27044	18.53843	0.50739	2.10E-04	2.50E-05	1.27E-03	0.00E+00	1.50E-03
523	ONSITE	440291.4	3762188.44	440291.38, 3762188.44	12.40403	15.41402	0.34115	1.96E-04	2.08E-05	8.52E-04	0.00E+00	1.07E-03
524	ONSITE	440341.4	3762188.44	440341.38, 3762188.44	11.56464	13.33748	0.2894	1.83E-04	1.80E-05	7.23E-04	0.00E+00	9.24E-04
525	ONSITE	440191.4	3762238.44	440191.38, 3762238.44	17.2603	27.11014	0.91063	2.73E-04	3.65E-05	2.27E-03	0.00E+00	2.58E-03
526	ONSITE	440241.4	3762238.44	440241.38, 3762238.44	15.19218	20.25434	0.53169	2.40E-04	2.73E-05	1.33E-03	0.00E+00	1.60E-03
527	ONSITE	440291.4	3762238.44	440291.38, 3762238.44	14.0961	16.68644	0.39635	2.23E-04	2.25E-05	9.90E-04	0.00E+00	1.24E-03
528	ONSITE	440341.4	3762238.44	440341.38, 3762238.44	12.95268	14.60721	0.33291	2.05E-04	1.97E-05	8.31E-04	0.00E+00	1.06E-03

PHASE 2 OPERATIONAL PM2.5 24-HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
3.70E-06	2.40E-07	6.20E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
1	1	440407.9	3761497.84	440407.86, 3761497.84	5.56289	5.26633	0.10941		2.06E-05	1.26E-06	6.78E-04	0.00E+00	7.00E-04
2	1	439943.4	3761716.33	439943.36, 3761716.33	6.51039	6.1967	0.33795		2.41E-05	1.49E-06	2.10E-03	0.00E+00	2.12E-03
3	UCART1	439170.2	3763092.51	439170.17, 3763092.51	4.28854	4.24814	0.05531		1.59E-05	1.02E-06	3.43E-04	0.00E+00	3.60E-04
4	UCART1	439220.2	3763092.51	439220.17, 3763092.51	4.48261	4.45455	0.05726		1.66E-05	1.07E-06	3.55E-04	0.00E+00	3.73E-04
5	UCART1	439270.2	3763092.51	439270.17, 3763092.51	4.49811	4.48577	0.05853		1.66E-05	1.08E-06	3.63E-04	0.00E+00	3.81E-04
6	UCART1	439320.2	3763092.51	439320.17, 3763092.51	5.14878	5.07296	0.05871		1.91E-05	1.22E-06	3.64E-04	0.00E+00	3.84E-04
7	UCART1	439370.2	3763092.51	439370.17, 3763092.51	5.7917	5.69972	0.05771		2.14E-05	1.37E-06	3.58E-04	0.00E+00	3.81E-04
8	UCART1	439420.2	3763092.51	439420.17, 3763092.51	6.33494	6.27788	0.05544		2.34E-05	1.51E-06	3.44E-04	0.00E+00	3.69E-04
9	UCART1	439470.2	3763092.51	439470.17, 3763092.51	6.73567	6.55171	0.05179		2.49E-05	1.57E-06	3.21E-04	0.00E+00	3.48E-04
10	UCART1	439520.2	3763092.51	439520.17, 3763092.51	7.04258	6.88568	0.04669		2.61E-05	1.65E-06	2.90E-04	0.00E+00	3.17E-04
11	UCART1	439570.2	3763092.51	439570.17, 3763092.51	7.13256	7.14423	0.04139		2.64E-05	1.72E-06	2.57E-04	0.00E+00	2.85E-04
12	UCART1	439620.2	3763092.51	439620.17, 3763092.51	7.0579	7.16524	0.0412		2.61E-05	1.72E-06	2.55E-04	0.00E+00	2.83E-04
13	UCART1	439670.2	3763092.51	439670.17, 3763092.51	6.59489	6.84455	0.0405		2.44E-05	1.64E-06	2.51E-04	0.00E+00	2.77E-04
14	UCART1	439720.2	3763092.51	439720.17, 3763092.51	5.74755	6.13634	0.04227		2.13E-05	1.47E-06	2.62E-04	0.00E+00	2.85E-04
15	UCART1	439770.2	3763092.51	439770.17, 3763092.51	6.01404	6.28028	0.06169		2.23E-05	1.51E-06	3.83E-04	0.00E+00	4.06E-04
16	UCART1	439820.2	3763092.51	439820.17, 3763092.51	6.50531	6.81088	0.08465		2.41E-05	1.64E-06	5.25E-04	0.00E+00	5.51E-04
17	UCART1	439870.2	3763092.51	439870.17, 3763092.51	6.85425	7.18401	0.1085		2.54E-05	1.72E-06	6.73E-04	0.00E+00	7.00E-04
18	UCART1	439170.2	3763142.51	439170.17, 3763142.51	4.03622	4.09692	0.05004		1.49E-05	9.84E-07	3.10E-04	0.00E+00	3.26E-04
19	UCART1	439220.2	3763142.51	439220.17, 3763142.51	4.28457	4.25594	0.05046		1.59E-05	1.02E-06	3.13E-04	0.00E+00	3.30E-04
20	UCART1	439270.2	3763142.51	439270.17, 3763142.51	4.83108	4.74972	0.05017		1.79E-05	1.14E-06	3.11E-04	0.00E+00	3.30E-04
21	UCART1	439320.2	3763142.51	439320.17, 3763142.51	5.43171	5.36824	0.04882		2.01E-05	1.29E-06	3.03E-04	0.00E+00	3.24E-04
22	UCART1	439370.2	3763142.51	439370.17, 3763142.51	5.94795	5.89022	0.04647		2.20E-05	1.41E-06	2.88E-04	0.00E+00	3.12E-04
23	UCART1	439420.2	3763142.51	439420.17, 3763142.51	6.29498	6.20907	0.04314		2.33E-05	1.49E-06	2.67E-04	0.00E+00	2.92E-04
24	UCART1	439470.2	3763142.51	439470.17, 3763142.51	6.6186	6.62433	0.03863		2.45E-05	1.59E-06	2.40E-04	0.00E+00	2.66E-04
25	UCART1	439520.2	3763142.51	439520.17, 3763142.51	6.68678	6.74608	0.03652		2.47E-05	1.62E-06	2.26E-04	0.00E+00	2.53E-04
26	UCART1	439570.2	3763142.51	439570.17, 3763142.51	6.41788	6.58793	0.03624		2.37E-05	1.58E-06	2.25E-04	0.00E+00	2.50E-04
27	UCART1	439620.2	3763142.51	439620.17, 3763142.51	6.00106	6.19835	0.03554		2.22E-05	1.49E-06	2.20E-04	0.00E+00	2.44E-04
28	UCART1	439670.2	3763142.51	439670.17, 3763142.51	5.30101	5.62752	0.03433		1.96E-05	1.35E-06	2.13E-04	0.00E+00	2.34E-04
29	UCART1	439720.2	3763142.51	439720.17, 3763142.51	5.29559	5.50401	0.04724		1.96E-05	1.32E-06	2.93E-04	0.00E+00	3.14E-04
30	UCART1	439770.2	3763142.51	439770.17, 3763142.51	5.76594	6.01778	0.06532		2.13E-05	1.44E-06	4.05E-04	0.00E+00	4.28E-04
31	UCART1	439820.2	3763142.51	439820.17, 3763142.51	6.0742	6.33916	0.08509		2.25E-05	1.52E-06	5.28E-04	0.00E+00	5.52E-04
32	UCART1	439870.2	3763142.51	439870.17, 3763142.51	6.25036	6.53618	0.1037		2.31E-05	1.57E-06	6.43E-04	0.00E+00	6.68E-04
33	UCART1	439170.2	3763192.51	439170.17, 3763192.51	4.07983	4.03311	0.04382		1.51E-05	9.68E-07	2.72E-04	0.00E+00	2.88E-04
34	UCART1	439220.2	3763192.51	439220.17, 3763192.51	4.59012	4.52726	0.04306		1.70E-05	1.09E-06	2.67E-04	0.00E+00	2.85E-04
35	UCART1	439270.2	3763192.51	439270.17, 3763192.51	5.06272	4.99613	0.04162		1.87E-05	1.20E-06	2.58E-04	0.00E+00	2.78E-04
36	UCART1	439320.2	3763192.51	439320.17, 3763192.51	5.54729	5.47667	0.03926		2.05E-05	1.31E-06	2.43E-04	0.00E+00	2.65E-04
37	UCART1	439370.2	3763192.51	439370.17, 3763192.51	5.88876	5.83756	0.03618		2.18E-05	1.40E-06	2.24E-04	0.00E+00	2.48E-04
38	UCART1	439420.2	3763192.51	439420.17, 3763192.51	6.05495	6.04462	0.03287		2.24E-05	1.45E-06	2.04E-04	0.00E+00	2.28E-04
39	UCART1	439470.2	3763192.51	439470.17, 3763192.51	6.11852	6.15045	0.03268		2.26E-05	1.48E-06	2.03E-04	0.00E+00	2.27E-04
40	UCART1	439520.2	3763192.51	439520.17, 3763192.51	5.93296	6.02302	0.03224		2.20E-05	1.45E-06	2.00E-04	0.00E+00	2.23E-04
41	UCART1	439570.2	3763192.51	439570.17, 3763192.51	5.51789	5.66912	0.03151		2.04E-05	1.36E-06	1.95E-04	0.00E+00	2.17E-04
42	UCART1	439620.2	3763192.51	439620.17, 3763192.51	4.90734	5.11104	0.03043		1.82E-05	1.23E-06	1.89E-04	0.00E+00	2.08E-04
43	UCART1	439670.2	3763192.51	439670.17, 3763192.51	4.69107	4.85704	0.0367		1.74E-05	1.17E-06	2.28E-04	0.00E+00	2.46E-04
44	UCART1	439720.2	3763192.51	439720.17, 3763192.51	5.18981	5.39203	0.05083		1.92E-05	1.29E-06	3.15E-04	0.00E+00	3.36E-04
45	UCART1	439770.2	3763192.51	439770.17, 3763192.51	5.53182	5.76183	0.06695		2.05E-05	1.38E-06	4.15E-04	0.00E+00	4.37E-04
46	UCART1	439820.2	3763192.51	439820.17, 3763192.51	5.61761	5.85938	0.08333		2.08E-05	1.41E-06	5.17E-04	0.00E+00	5.39E-04
47	UCART1	439870.2	3763192.51	439870.17, 3763192.51	5.66241	5.90408	0.09719		2.10E-05	1.42E-06	6.03E-04	0.00E+00	6.25E-04
48	UCART1	439170.2	3763242.51	439170.17, 3763242.51	4.35128	4.32427	0.03723		1.61E-05	1.04E-06	2.31E-04	0.00E+00	2.48E-04
49	UCART1	439220.2	3763242.51	439220.17, 3763242.51	4.79039	4.76727	0.03564		1.77E-05	1.14E-06	2.21E-04	0.00E+00	2.40E-04
50	UCART1	439270.2	3763242.51	439270.17, 3763242.51	5.15756	5.15063	0.03348		1.91E-05	1.24E-06	2.08E-04	0.00E+00	2.28E-04
51	UCART1	439320.2	3763242.51	439320.17, 3763242.51	5.46021	5.47948	0.03067		2.02E-05	1.32E-06	1.90E-04	0.00E+00	2.12E-04
52	UCART1	439370.2	3763242.51	439370.17, 3763242.51	5.62366	5.68157	0.02983		2.08E-05	1.36E-06	1.85E-04	0.00E+00	2.07E-04
53	UCART1	439420.2	3763242.51	439420.17, 3763242.51	5.62795	5.73315	0.02955		2.08E-05	1.38E-06	1.83E-04	0.00E+00	2.05E-04
54	UCART1	439470.2	3763242.51	439470.17, 3763242.51	5.47279	5.62925	0.02902		2.03E-05	1.35E-06	1.80E-04	0.00E+00	2.02E-04
55	UCART1	439520.2	3763242.51	439520.17, 3763242.51	5.1008	5.30388	0.02826		1.89E-05	1.27E-06	1.75E-04	0.00E+00	1.95E-04
56	UCART1	439570.2	3763242.51	439570.17, 3763242.51	4.55845	4.79396	0.02723		1.69E-05	1.15E-06	1.69E-04	0.00E+00	1.87E-04
57	UCART1	439620.2	3763242.51	439620.17, 3763242.51	4.14539	4.27944	0.02902		1.53E-05	1.03E-06	1.80E-04	0.00E+00	1.96E-04
58	UCART1	439670.2	3763242.51	439670.17, 3763242.51	4.57054	4.73382	0.04031		1.69E-05	1.14E-06	2.50E-04	0.00E+00	2.68E-04
59	UCART1	439720.2	3763242.51	439720.17, 3763242.51	4.95434	5.14204	0.05338		1.83E-05	1.23E-06	3.31E-04	0.00E+00	3.51E-04
60	UCART1	439770.2	3763242.51	439770.17, 3763242.51	5.16159	5.36303	0.06727		1.91E-05	1.29E-06	4.17E-04	0.00E+00	4.37E-04
61	UCART1	439820.2	3763242.51	439820.17, 3763242.51	5.13454	5.34253	0.08016		1.90E-05	1.28E-06	4.97E-04	0.00E+00	5.17E-04
62	UCART1	439870.2	3763242.51	439870.17, 3763242.51	5.11414	5.31417	0.08978		1.89E-05	1.28E-06	5.57E-04	0.00E+00	5.77E-04
63	UCART1	439170.2	3763292.51	439170.17, 3763292.51	4.54249	4.51268	0.03075		1.68E-05	1.08E-06	1.91E-04	0.00E+00	2.09E-04
64	UCART1	439220.2	3763292.51	439220.17, 3763292.51	4.92071	4.9019	0.02858		1.82E-05	1.18E-06	1.77E-04	0.00E+00	1.97E-04
65	UCART1	439270.2	3763292.51	439270.17, 3763292.51	5.17174	5.17791	0.02752		1.91E-05	1.24E-06	1.71E-04	0.00E+00	1.91E-04
66	UCART1	439320.2	3763292.51	439320.17, 3763292.51	5.28281	5.32469	0.02729		1.95E-05	1.28E-06	1.69E-04	0.00E+00	1.90E-04
67	UCART1	439370.2	3763292.51	439370.17, 3763292.51	5.23148	5.31584	0.02693		1.94E-05	1.28E-06	1.67E-04	0.00E+00	1.88E-04
68	UCART1	439420.2	3763292.51	439420.17, 3763292.51	5.08421	5.21473	0.02636		1.88E-05	1.25E-06	1.63E-04	0.00E+00	1.84E-04
69	UCART1	439470.2	3763292.51	439470.17, 3763292.51	4.74831	4.92227	0.02558		1.76E-05	1.18E-06	1.59E-04	0.00E+00	1.77E-04
70	UCART1	439520.2	3763292.51	439520.17, 3763292.51	4.25035	4.45665	0.02458		1.57E-05	1.07E-06	1.52E-04	0.00E+00	1.69E-04
71	UCART1	439570.2	3763292.51	439570.17, 3763292.51	3.7747	3.88434	0.02338		1.40E-05	9.32E-07	1.45E-04	0.00E+00	1.60E-04
72	UCART1	439620.2	3763292.51	439620.17, 3763292.51	4.13024	4.26465	0.0322		1.53E-05	1.02E-06	2.00E-04	0.00E+00	2.16E-04
73	UCART1	439670.2	3763292.51	439670.17, 3763292.51	4.43761	4.59225	0.04302		1.64E-05	1.10E-06	2.67E-04	0.00E+00	2.84E-04
74	UCART1	439720.2	3763292.51	439720.17, 3763292.51	4.69911	4.86735	0.05477		1.74E-05	1.17E-06	3.40E-04	0.00E+00	3.58E-04
75	UCART1	439770.2	3763292.51	439770.17, 3763292.51	4.81497	4.98651	0.06626		1.78E-05	1.20E-06	4.11E-04	0.00E+00	4.30E-04
76	UCART1	439820.2	3763292.51	439820.17, 3763292.51	4.68006	4.85895	0.07604		1.73E-05	1.17E-06	4.71E-04	0.00E+00	4.90E-04
77	UCART1	439870.2	3763292.51	439870.17, 3763292.51	4.62178	4.78421	0.08214		1.71E-05	1.15E-06	5.09E-04	0.00E+00	5.28E-04
78	UCART1	439170.2	3763342.51	439170.17, 3763342.51	4.61413	4.59163	0.02576		1.71E-05	1.10E-06	1.60E-04	0.00E+00	1.78E-04
79	UCART1	439220.2	3763342.51	439220.17, 3763342.51	4.85619	4.85503	0.02553		1.80E-05	1.17E-06	1.58E-04	0.00E+00	1.77E-04
80	UCART1	439270.2	3763342.51	439270.17, 3763342.51	4.92979	4.9603	0.02522		1.82E-05	1.19E-06	1.56E-04	0.00E+00	1.76E-04
81	UCART1	439320.2	3763342.51	439320.17, 3763342.51	4.89834	4.96665	0.02476		1.81E-05	1.19E-06	1.54E-04	0.00E+00	1.73E-04
82	UCART1	439370.2	3763342.51	439370.17, 3763342.51	4.71039	4.81847	0.02419		1.74E-05	1.16E-06	1.50E-04	0.00E+00	1.69E-04
83	UCART1	439420.2	3763342.51	439420.17, 3763342.51	4.41521	4.56231	0.02341		1.63E-05	1.10E-06	1.45E-04	0.00E+00	1.63E-04
84	UCART1	439470.2	3763342.51	439470.17, 3763342.51	3.97865	4.15704	0.02245		1.47E-05	9.98E-07	1.39E-04	0.00E+00	1.55E-04
85	UCART1	439520.2	3763342.51	439520.17, 3763342.51	3.45798	3.62892	0.0213		1.28E-05	8.71E-07	1.32E-04	0.00E+00	1.46E-04
86	UCART1	439570.2	3763342.51	439570.17, 3763342.51	3.76105	3.87356	0.02593		1.39E-05	9.30E-07	1.61E-04	0.00E+00	1.76E-04
87	UCART1	439620.2	3763342.51	439620.17, 3763342.51	4.02312	4.15294	0.0349		1.49E-05	9.97E-07	2.16E-04	0.00E+00	2.32E-04
88	UCART1	439670.2	3763342.51	439670.17, 3763342.51	4.2635	4.40522	0.04488		1.58E-05	1.06E-06	2.78E-04	0.00E+00	2.95E-04
89	UCART1	439720.2	3763342.51	439720.17, 3763342.51	4.40812	4.55389	0.05514		1.63E-05	1.09E-06	3.42E-04	0.00E+00	3.59E-04
90	UCART1	439770.2	3763342.51	439770.17, 3763342.51	4.41448	4.5552	0.06439		1.63E-05	1.09E-06	3.99E-04	0.00E+00	4.17E-04
91	UCART1	439820.2	3763342.51	439820.17, 3763342.51	4.26561	4.41647	0.07138		1.58E-05	1.06E-06	4.43E-04	0.00E+00	4.59E-04
92	UCART1	439870.2	3763342.51	439870.17, 3763342.51	4.18296	4.31229	0.07462		1.55E-05	1.04E-06	4.63E-04	0.00E+00	4.79E-04
93	UCART1	439170.2	3763392.51	439170.17, 3763392.51	4.55259	4.54628	0.02386		1.68E-05	1.09E-06	1.48E-04	0.00E+00	1.66E-04
94	UCART1	439220.2	3763392.51	439220.17, 3763392.51	4.645	4.66709	0.02346		1.72E-05	1.12E-06	1.45E-04	0.00E+00	1.64E-04
95	UCART1	439270.2	3763392.51	439270.17, 3763392.51	4.58165	4.63733	0.02296		1.70E-05	1.11E-06	1.42E-04	0.00E+00	1.60E-04
96	UCART1	439320.2	3763392.51	439320.17, 3763392.51	4.43239	4.52595	0.02232		1.64E-05	1.09E-06	1.38E-04	0.00E+00	1.56E-04
97	UCART1	439370.2	3763392.51	439370.17, 3763392.51	4.13492	4.26266	0.02158		1.53E-05	1.02E-06	1.34E-04	0.00E+00	1.50E-04
98	UCART1	439420.2	3763392.51	439420.17, 3763392.51	3.73382	3.89135	0.02065		1.38E-05	9.34E-07	1.28E-04	0.00E+00	1.43E-04
99	UCART1	439470.2	3763392.51	439470.17, 3763392.51	3.23655	3.41116	0.01957		1.20E-05	8.19E-07	1.21E-04	0.00E+00	1.34E-04
100	UCART1	439520.2	3763392.51	439520.17, 3763392.51	3.43966	3.53499	0.02105		1.27E-05	8.49E-07	1.31E-04	0.00E+00	1.44E-04
101	UCART1	439570.2	3763392.51	439570.17, 3763392.51	3.69607	3.80729	0.02843		1.37E-05	9.14E-07	1.76E-04	0.00E+00	1.91E-04
102	UCART1	439620.2	3763392.51	439620.17, 3763392.51	3.89683	4.01817	0.03693		1.44E-05	9.65E-07	2.29E-04	0.00E+00	2.44E-04

PHASE 2 OPERATIONAL PM2.5 24-HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
3.70E-06	2.40E-07	6.20E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
103	UCART1	439670.2	3763392.51	439670.17, 3763392.51	4.07586	4.20195	0.04589		1.51E-05	1.01E-06	2.85E-04	0.00E+00	3.01E-04
104	UCART1	439720.2	3763392.51	439720.17, 3763392.51	4.09845	4.22139	0.05461		1.52E-05	1.01E-06	3.39E-04	0.00E+00	3.55E-04
105	UCART1	439770.2	3763392.51	439770.17, 3763392.51	3.98532	4.09778	0.0618		1.47E-05	9.84E-07	3.83E-04	0.00E+00	3.99E-04
106	UCART1	439820.2	3763392.51	439820.17, 3763392.51	3.89872	4.02385	0.06642		1.44E-05	9.66E-07	4.12E-04	0.00E+00	4.27E-04
107	UCART1	439870.2	3763392.51	439870.17, 3763392.51	3.7997	3.90073	0.06742		1.41E-05	9.36E-07	4.18E-04	0.00E+00	4.33E-04
108	UCART1	439170.2	3763442.51	439170.17, 3763442.51	4.36127	4.37656	0.022		1.61E-05	1.05E-06	1.36E-04	0.00E+00	1.54E-04
109	UCART1	439220.2	3763442.51	439220.17, 3763442.51	4.32129	4.36808	0.02144		1.60E-05	1.05E-06	1.33E-04	0.00E+00	1.50E-04
110	UCART1	439270.2	3763442.51	439270.17, 3763442.51	4.14431	4.2232	0.0208		1.53E-05	1.01E-06	1.29E-04	0.00E+00	1.45E-04
111	UCART1	439320.2	3763442.51	439320.17, 3763442.51	3.87914	3.99008	0.02004		1.44E-05	9.58E-07	1.24E-04	0.00E+00	1.40E-04
112	UCART1	439370.2	3763442.51	439370.17, 3763442.51	3.51522	3.65315	0.01917		1.30E-05	8.77E-07	1.19E-04	0.00E+00	1.33E-04
113	UCART1	439420.2	3763442.51	439420.17, 3763442.51	3.07401	3.22897	0.01816		1.14E-05	7.75E-07	1.13E-04	0.00E+00	1.25E-04
114	UCART1	439470.2	3763442.51	439470.17, 3763442.51	3.15503	3.2364	0.01722		1.17E-05	7.77E-07	1.07E-04	0.00E+00	1.19E-04
115	UCART1	439520.2	3763442.51	439520.17, 3763442.51	3.38639	3.48226	0.02334		1.25E-05	8.36E-07	1.45E-04	0.00E+00	1.58E-04
116	UCART1	439570.2	3763442.51	439570.17, 3763442.51	3.60641	3.71245	0.03047		1.33E-05	8.91E-07	1.89E-04	0.00E+00	2.03E-04
117	UCART1	439620.2	3763442.51	439620.17, 3763442.51	3.75799	3.86796	0.03832		1.39E-05	9.29E-07	2.38E-04	0.00E+00	2.52E-04
118	UCART1	439670.2	3763442.51	439670.17, 3763442.51	3.84939	3.95788	0.04619		1.42E-05	9.50E-07	2.86E-04	0.00E+00	3.02E-04
119	UCART1	439720.2	3763442.51	439720.17, 3763442.51	3.80179	3.90282	0.0533		1.41E-05	9.37E-07	3.30E-04	0.00E+00	3.45E-04
120	UCART1	439770.2	3763442.51	439770.17, 3763442.51	3.62786	3.74634	0.05862		1.34E-05	8.99E-07	3.63E-04	0.00E+00	3.78E-04
121	UCART1	439820.2	3763442.51	439820.17, 3763442.51	3.57088	3.67279	0.06129		1.32E-05	8.82E-07	3.80E-04	0.00E+00	3.94E-04
122	UCART1	439870.2	3763442.51	439870.17, 3763442.51	3.46422	3.54135	0.06062		1.28E-05	8.50E-07	3.76E-04	0.00E+00	3.90E-04
123	UCART2	439203.2	3762911.16	439203.2, 3762911.16	4.14885	4.11707	0.06974		1.54E-05	9.88E-07	4.32E-04	0.00E+00	4.49E-04
124	UCART2	439253.2	3762911.16	439253.2, 3762911.16	4.48587	4.46821	0.0732		1.66E-05	1.07E-06	4.54E-04	0.00E+00	4.72E-04
125	UCART2	439303.2	3762911.16	439303.2, 3762911.16	4.82911	4.83335	0.07924		1.79E-05	1.16E-06	4.91E-04	0.00E+00	5.10E-04
126	UCART2	439353.2	3762911.16	439353.2, 3762911.16	5.17157	5.20709	0.08788		1.91E-05	1.25E-06	5.45E-04	0.00E+00	5.65E-04
127	UCART2	439403.2	3762911.16	439403.2, 3762911.16	5.48983	5.56837	0.09604		2.03E-05	1.34E-06	5.95E-04	0.00E+00	6.17E-04
128	UCART2	439453.2	3762911.16	439453.2, 3762911.16	5.76978	5.90401	0.10331		2.14E-05	1.42E-06	6.41E-04	0.00E+00	6.63E-04
129	UCART2	439503.2	3762911.16	439503.2, 3762911.16	5.99505	6.19703	0.10914		2.22E-05	1.49E-06	6.77E-04	0.00E+00	7.00E-04
130	UCART2	439553.2	3762911.16	439553.2, 3762911.16	6.85398	6.8669	0.1125		2.54E-05	1.65E-06	6.98E-04	0.00E+00	7.25E-04
131	UCART2	439203.2	3762961.16	439203.2, 3762961.16	4.15823	4.15016	0.06458		1.54E-05	9.96E-07	4.00E-04	0.00E+00	4.17E-04
132	UCART2	439253.2	3762961.16	439253.2, 3762961.16	4.46255	4.44204	0.07109		1.65E-05	1.07E-06	4.41E-04	0.00E+00	4.58E-04
133	UCART2	439303.2	3762961.16	439303.2, 3762961.16	4.85917	4.7268	0.07737		1.80E-05	1.13E-06	4.80E-04	0.00E+00	4.99E-04
134	UCART2	439353.2	3762961.16	439353.2, 3762961.16	4.97919	4.99796	0.0832		1.84E-05	1.20E-06	5.16E-04	0.00E+00	5.36E-04
135	UCART2	439403.2	3762961.16	439403.2, 3762961.16	5.11133	5.23897	0.08809		1.89E-05	1.26E-06	5.46E-04	0.00E+00	5.66E-04
136	UCART2	439453.2	3762961.16	439453.2, 3762961.16	5.56535	5.49058	0.09139		2.06E-05	1.32E-06	5.67E-04	0.00E+00	5.89E-04
137	UCART2	439503.2	3762961.16	439503.2, 3762961.16	6.22836	6.23171	0.09283		2.30E-05	1.50E-06	5.76E-04	0.00E+00	6.00E-04
138	UCART2	439553.2	3762961.16	439553.2, 3762961.16	6.99713	6.98039	0.09156		2.59E-05	1.68E-06	5.68E-04	0.00E+00	5.95E-04
139	UCART2	439203.2	3763011.16	439203.2, 3763011.16	4.356	4.34959	0.06347		1.61E-05	1.04E-06	3.94E-04	0.00E+00	4.11E-04
140	UCART2	439253.2	3763011.16	439253.2, 3763011.16	4.60947	4.66249	0.06809		1.71E-05	1.12E-06	4.22E-04	0.00E+00	4.40E-04
141	UCART2	439303.2	3763011.16	439303.2, 3763011.16	4.89159	4.94857	0.07208		1.81E-05	1.19E-06	4.47E-04	0.00E+00	4.66E-04
142	UCART2	439353.2	3763011.16	439353.2, 3763011.16	5.01462	5.18394	0.07511		1.86E-05	1.24E-06	4.66E-04	0.00E+00	4.86E-04
143	UCART2	439403.2	3763011.16	439403.2, 3763011.16	5.20515	5.0633	0.07706		1.93E-05	1.22E-06	4.78E-04	0.00E+00	4.98E-04
144	UCART2	439453.2	3763011.16	439453.2, 3763011.16	5.95027	5.77698	0.07707		2.20E-05	1.39E-06	4.78E-04	0.00E+00	5.01E-04
145	UCART2	439503.2	3763011.16	439503.2, 3763011.16	6.44942	6.29661	0.07521		2.39E-05	1.51E-06	4.66E-04	0.00E+00	4.92E-04
146	UCART2	439553.2	3763011.16	439553.2, 3763011.16	7.16758	7.09559	0.07089		2.65E-05	1.70E-06	4.40E-04	0.00E+00	4.68E-04
147	UCART2	439203.2	3763061.16	439203.2, 3763061.16	4.3753	4.42465	0.05993		1.62E-05	1.06E-06	3.72E-04	0.00E+00	3.89E-04
148	UCART2	439253.2	3763061.16	439253.2, 3763061.16	4.74558	4.75139	0.06255		1.76E-05	1.14E-06	3.88E-04	0.00E+00	4.07E-04
149	UCART2	439303.2	3763061.16	439303.2, 3763061.16	4.81439	4.82516	0.06434		1.78E-05	1.16E-06	3.99E-04	0.00E+00	4.18E-04
150	UCART2	439353.2	3763061.16	439353.2, 3763061.16	5.369	5.31522	0.06496		1.99E-05	1.28E-06	4.03E-04	0.00E+00	4.24E-04
151	UCART2	439403.2	3763061.16	439403.2, 3763061.16	6.04724	5.92168	0.06428		2.24E-05	1.42E-06	3.99E-04	0.00E+00	4.22E-04
152	UCART2	439453.2	3763061.16	439453.2, 3763061.16	6.63395	6.4502	0.06204		2.45E-05	1.55E-06	3.85E-04	0.00E+00	4.11E-04
153	UCART2	439503.2	3763061.16	439503.2, 3763061.16	6.8568	6.85214	0.05815		2.54E-05	1.64E-06	3.61E-04	0.00E+00	3.88E-04
154	UCART2	439553.2	3763061.16	439553.2, 3763061.16	7.50083	7.35634	0.05245		2.78E-05	1.77E-06	3.25E-04	0.00E+00	3.55E-04
155	UCART3	439196	3762392.48	439196.01, 3762392.48	3.57531	3.72459	0.08895		1.32E-05	8.94E-07	5.52E-04	0.00E+00	5.66E-04
156	UCART3	439246	3762392.48	439246.01, 3762392.48	3.87015	4.03891	0.09792		1.43E-05	9.70E-07	6.07E-04	0.00E+00	6.22E-04
157	UCART3	439296	3762392.48	439296.01, 3762392.48	4.2043	4.39574	0.10837		1.56E-05	1.06E-06	6.72E-04	0.00E+00	6.89E-04
158	UCART3	439346	3762392.48	439346.01, 3762392.48	4.58625	4.80449	0.12065		1.70E-05	1.15E-06	7.48E-04	0.00E+00	7.66E-04
159	UCART3	439396	3762392.48	439396.01, 3762392.48	5.0253	5.27534	0.13527		1.86E-05	1.27E-06	8.39E-04	0.00E+00	8.59E-04
160	UCART3	439446	3762392.48	439446.01, 3762392.48	5.53192	5.81949	0.15286		2.05E-05	1.40E-06	9.48E-04	0.00E+00	9.70E-04
161	UCART3	439496	3762392.48	439496.01, 3762392.48	6.13033	6.465	0.17417		2.27E-05	1.55E-06	1.08E-03	0.00E+00	1.10E-03
162	UCART3	439546	3762392.48	439546.01, 3762392.48	6.84173	7.23542	0.20047		2.53E-05	1.74E-06	1.24E-03	0.00E+00	1.27E-03
163	UCART3	439196	3762442.48	439196.01, 3762442.48	3.66953	3.58766	0.07641		1.36E-05	8.61E-07	4.74E-04	0.00E+00	4.88E-04
164	UCART3	439246	3762442.48	439246.01, 3762442.48	4.01253	3.91886	0.08387		1.48E-05	9.41E-07	5.20E-04	0.00E+00	5.36E-04
165	UCART3	439296	3762442.48	439296.01, 3762442.48	4.41007	4.30284	0.09251		1.63E-05	1.03E-06	5.74E-04	0.00E+00	5.91E-04
166	UCART3	439346	3762442.48	439346.01, 3762442.48	4.86882	4.74492	0.10262		1.80E-05	1.14E-06	6.36E-04	0.00E+00	6.55E-04
167	UCART3	439396	3762442.48	439396.01, 3762442.48	5.40538	5.26189	0.11456		2.00E-05	1.26E-06	7.10E-04	0.00E+00	7.32E-04
168	UCART3	439446	3762442.48	439446.01, 3762442.48	6.03825	5.87142	0.12882		2.23E-05	1.41E-06	7.99E-04	0.00E+00	8.23E-04
169	UCART3	439496	3762442.48	439496.01, 3762442.48	6.78939	6.59447	0.14617		2.51E-05	1.58E-06	9.06E-04	0.00E+00	9.33E-04
170	UCART3	439546	3762442.48	439546.01, 3762442.48	7.69126	7.46297	0.16753		2.85E-05	1.79E-06	1.04E-03	0.00E+00	1.07E-03
171	UCART3	439196	3762492.48	439196.01, 3762492.48	4.08449	3.99219	0.07732		1.51E-05	9.58E-07	4.79E-04	0.00E+00	4.95E-04
172	UCART3	439246	3762492.48	439246.01, 3762492.48	4.47372	4.37095	0.08525		1.66E-05	1.05E-06	5.29E-04	0.00E+00	5.46E-04
173	UCART3	439296	3762492.48	439296.01, 3762492.48	4.92448	4.81054	0.09432		1.82E-05	1.15E-06	5.85E-04	0.00E+00	6.04E-04
174	UCART3	439346	3762492.48	439346.01, 3762492.48	5.44661	5.32045	0.10475		2.02E-05	1.28E-06	6.50E-04	0.00E+00	6.71E-04
175	UCART3	439396	3762492.48	439396.01, 3762492.48	6.05317	5.91362	0.11744		2.24E-05	1.42E-06	7.28E-04	0.00E+00	7.52E-04
176	UCART3	439446	3762492.48	439446.01, 3762492.48	6.76457	6.61105	0.13715		2.50E-05	1.59E-06	8.50E-04	0.00E+00	8.77E-04
177	UCART3	439496	3762492.48	439496.01, 3762492.48	7.61003	7.44498	0.16137		2.82E-05	1.79E-06	1.00E-03	0.00E+00	1.03E-03
178	UCART3	439546	3762492.48	439546.01, 3762492.48	8.61475	8.44042	0.19153		3.19E-05	2.03E-06	1.19E-03	0.00E+00	1.22E-03
179	UCART3	439196	3762542.48	439196.01, 3762542.48	4.45631	4.37277	0.08683		1.65E-05	1.05E-06	5.38E-04	0.00E+00	5.56E-04
180	UCART3	439246	3762542.48	439246.01, 3762542.48	4.87596	4.78728	0.09837		1.80E-05	1.15E-06	6.10E-04	0.00E+00	6.29E-04
181	UCART3	439296	3762542.48	439296.01, 3762542.48	5.3585	5.26628	0.11186		1.98E-05	1.26E-06	6.94E-04	0.00E+00	7.15E-04
182	UCART3	439346	3762542.48	439346.01, 3762542.48	5.91135	5.81681	0.12777		2.19E-05	1.40E-06	7.92E-04	0.00E+00	8.16E-04
183	UCART3	439396	3762542.48	439396.01, 3762542.48	6.55079	6.45818	0.14656		2.42E-05	1.55E-06	9.09E-04	0.00E+00	9.35E-04
184	UCART3	439446	3762542.48	439446.01, 3762542.48	7.28964	7.20367	0.16897		2.70E-05	1.73E-06	1.05E-03	0.00E+00	1.08E-03
185	UCART3	439496	3762542.48	439496.01, 3762542.48	8.1521	8.08303	0.1957		3.02E-05	1.94E-06	1.21E-03	0.00E+00	1.25E-03
186	UCART3	439546	3762542.48	439546.01, 3762542.48	9.15366	9.11326	0.22806		3.39E-05	2.19E-06	1.41E-03	0.00E+00	1.45E-03
187	UCART3	439196	3762592.48	439196.01, 3762592.48	4.73182	4.67628	0.10308		1.75E-05	1.12E-06	6.39E-04	0.00E+00	6.58E-04
188	UCART3	439246	3762592.48	439246.01, 3762592.48	5.15969	5.10863	0.11537		1.91E-05	1.23E-06	7.15E-04	0.00E+00	7.36E-04
189	UCART3	439296	3762592.48	439296.01, 3762592.48	5.64164	5.59809	0.12949		2.09E-05	1.34E-06	8.03E-04	0.00E+00	8.25E-04
190	UCART3	439346	3762592.48	439346.01, 3762592.48	6.18525	6.15352	0.14566		2.29E-05	1.48E-06	9.03E-04	0.00E+00	9.28E-04
191	UCART3	439396	3762592.48	439396.01, 3762592.48	6.80058	6.78858	0.16423		2.52E-05	1.63E-06	1.02E-03	0.00E+00	1.05E-03
192	UCART3	439446	3762592.48	439446.01, 3762592.48	7.49792	7.51698	0.18551		2.77E-05	1.80E-06	1.15E-03	0.00E+00	1.18E-03
193	UCART3	439496	3762592.48	439496.01, 3762592.48	8.28782	8.35475	0.2098		3.07E-05	2.01E-06	1.30E-03	0.00E+00	1.33E-03
194	UCART3	439546	3762592.48	439546.01, 3762592.48	9.17462	9.30922	0.23775		3.39E-05	2.23E-06	1.47E-03	0.00E+00	1.51E-03
195	UCART3	439196	3762642.48	439196.01, 3762642.48	4.87449	4.86009	0.11286		1.80E-05	1.17E-06	7.00E-04	0.00E+00	7.19E-04
196	UCART3	439246	3762642.48	439246.01, 3762642.48	5.27919	5.27911	0.1243		1.95E-05	1.27E-06	7.71E-04	0.00E+00	7.92E-04
197	UCART3	439296	3762642.48	439296.01, 3762642.48	5.72651	5.74468	0.13704		2.12E-05	1.38E-06	8.50E-04	0.00E+00	8.72E-04
198	UCART3	439346	3762642.48	439346.01, 3762642.48	6.21847	6.26194	0.15103		2.30E-05	1.50E-06	9.36E-04	0.00E+00	9.61E-04
199	UCART3	439396	3762642.48	439396.01, 3762642.48	6.7621	6.84291	0.16624		2.50E-05	1.64E-06	1.03E-03	0.00E+00	1.06E-03
200	UCART3	439446	3762642.48	439446.01, 3762642.48	7.35648	7.48834	0.18268		2.72E-05	1.80E-06	1.13E-03	0.00E+00	1.16E-03
201	UCART3	439496	3762642.48	439496.01, 3762642.48	8.00086	8.20399	0.20016		2.96E-05	1.97E-06	1.24E-03	0.00E+00	1.27E-03
202	UCART3	439546	3762642.48	439546.01, 3762642.48	8.69183	8.98764	0.21867		3.22E-05	2.16E-06	1.36E-03	0.00E+00	1.39E-03
203	UCART3	439196	3762692.48	439196.01, 3762692.48	4.8703	4.90203	0.11437		1.80E-05	1.18E-06	7.09E-04	0.00E+00	7.28E-04
204	UCART3	439246	3762692.48	439246.01, 3762692.48	5.22706	5.28054	0.12346		1.93E-05	1.27E-06	7.66E-04	0.00E+00	7.86E-04

PHASE 2 OPERATIONAL PM2.5 24-HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
3.70E-06	2.40E-07	6.20E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
205	UCART3	439296	3762692.48	439296.01, 3762692.48	5.61113	5.6937	0.13292		2.08E-05	1.37E-06	8.24E-04	0.00E+00	8.46E-04
206	UCART3	439346	3762692.48	439346.01, 3762692.48	6.02206	6.14133	0.14271		2.23E-05	1.47E-06	8.85E-04	0.00E+00	9.09E-04
207	UCART3	439396	3762692.48	439396.01, 3762692.48	6.45724	6.62252	0.15266		2.39E-05	1.59E-06	9.47E-04	0.00E+00	9.72E-04
208	UCART3	439446	3762692.48	439446.01, 3762692.48	6.91096	7.1382	0.16229		2.56E-05	1.71E-06	1.01E-03	0.00E+00	1.03E-03
209	UCART3	439496	3762692.48	439496.01, 3762692.48	7.37483	7.68263	0.17119		2.73E-05	1.84E-06	1.06E-03	0.00E+00	1.09E-03
210	UCART3	439546	3762692.48	439546.01, 3762692.48	7.84209	8.24803	0.17896		2.90E-05	1.98E-06	1.11E-03	0.00E+00	1.14E-03
211	UCART3	439196	3762742.48	439196.01, 3762742.48	4.72766	4.80213	0.10763		1.75E-05	1.15E-06	6.67E-04	0.00E+00	6.86E-04
212	UCART3	439246	3762742.48	439246.01, 3762742.48	5.02024	5.1213	0.1134		1.86E-05	1.23E-06	7.03E-04	0.00E+00	7.23E-04
213	UCART3	439296	3762742.48	439296.01, 3762742.48	5.32269	5.45844	0.11888		1.97E-05	1.31E-06	7.37E-04	0.00E+00	7.58E-04
214	UCART3	439346	3762742.48	439346.01, 3762742.48	5.63373	5.81148	0.12383		2.08E-05	1.40E-06	7.68E-04	0.00E+00	7.90E-04
215	UCART3	439396	3762742.48	439396.01, 3762742.48	5.94618	6.17562	0.12796		2.20E-05	1.48E-06	7.93E-04	0.00E+00	8.17E-04
216	UCART3	439446	3762742.48	439446.01, 3762742.48	6.25235	6.54482	0.13088		2.31E-05	1.57E-06	8.12E-04	0.00E+00	8.36E-04
217	UCART3	439496	3762742.48	439496.01, 3762742.48	6.72622	6.90806	0.13395		2.49E-05	1.66E-06	8.31E-04	0.00E+00	8.57E-04
218	UCART3	439546	3762742.48	439546.01, 3762742.48	7.54359	7.54531	0.15089		2.79E-05	1.81E-06	9.36E-04	0.00E+00	9.65E-04
219	UCART3	439196	3762792.48	439196.01, 3762792.48	4.47005	4.57938	0.09429		1.65E-05	1.10E-06	5.85E-04	0.00E+00	6.02E-04
220	UCART3	439246	3762792.48	439246.01, 3762792.48	4.6917	4.82991	0.09679		1.74E-05	1.16E-06	6.00E-04	0.00E+00	6.19E-04
221	UCART3	439296	3762792.48	439296.01, 3762792.48	4.90676	5.0816	0.09834		1.82E-05	1.22E-06	6.10E-04	0.00E+00	6.29E-04
222	UCART3	439346	3762792.48	439346.01, 3762792.48	5.11543	5.33316	0.09891		1.89E-05	1.28E-06	6.13E-04	0.00E+00	6.34E-04
223	UCART3	439396	3762792.48	439396.01, 3762792.48	5.58409	5.57843	0.10591		2.07E-05	1.34E-06	6.57E-04	0.00E+00	6.79E-04
224	UCART3	439446	3762792.48	439446.01, 3762792.48	6.18628	6.16931	0.11601		2.29E-05	1.48E-06	7.19E-04	0.00E+00	7.44E-04
225	UCART3	439496	3762792.48	439496.01, 3762792.48	6.81656	6.84211	0.12833		2.52E-05	1.64E-06	7.96E-04	0.00E+00	8.23E-04
226	UCART3	439546	3762792.48	439546.01, 3762792.48	7.46276	7.55368	0.14224		2.76E-05	1.81E-06	8.82E-04	0.00E+00	9.11E-04
227	UCART3	439196	3762842.48	439196.01, 3762842.48	4.12917	4.26421	0.07709		1.53E-05	1.02E-06	4.78E-04	0.00E+00	4.94E-04
228	UCART3	439246	3762842.48	439246.01, 3762842.48	4.30027	4.44392	0.07877		1.59E-05	1.07E-06	4.88E-04	0.00E+00	5.05E-04
229	UCART3	439296	3762842.48	439296.01, 3762842.48	4.72914	4.68781	0.08567		1.75E-05	1.13E-06	5.31E-04	0.00E+00	5.50E-04
230	UCART3	439346	3762842.48	439346.01, 3762842.48	5.18649	5.16066	0.09206		1.92E-05	1.24E-06	5.71E-04	0.00E+00	5.91E-04
231	UCART3	439396	3762842.48	439396.01, 3762842.48	5.66366	5.66437	0.10023		2.10E-05	1.36E-06	6.21E-04	0.00E+00	6.44E-04
232	UCART3	439446	3762842.48	439446.01, 3762842.48	6.1493	6.19082	0.10992		2.28E-05	1.49E-06	6.82E-04	0.00E+00	7.06E-04
233	UCART3	439496	3762842.48	439496.01, 3762842.48	6.61979	6.72039	0.12257		2.45E-05	1.61E-06	7.60E-04	0.00E+00	7.86E-04
234	UCART3	439546	3762842.48	439546.01, 3762842.48	7.05496	7.23506	0.13452		2.61E-05	1.74E-06	8.34E-04	0.00E+00	8.62E-04
235	UCART4	439573.3	3762470.54	439573.31, 3762470.54	8.85003	8.62628	0.1878		3.27E-05	2.07E-06	1.16E-03	0.00E+00	1.20E-03
236	UCART4	439623.3	3762470.54	439623.31, 3762470.54	10.162	9.91821	0.22782		3.76E-05	2.38E-06	1.41E-03	0.00E+00	1.45E-03
237	UCART4	439673.3	3762470.54	439673.31, 3762470.54	11.77265	11.51494	0.28027		4.36E-05	2.76E-06	1.74E-03	0.00E+00	1.78E-03
238	UCART4	439723.3	3762470.54	439723.31, 3762470.54	13.77482	13.51705	0.34992		5.10E-05	3.24E-06	2.17E-03	0.00E+00	2.22E-03
239	UCART4	439773.3	3762470.54	439773.31, 3762470.54	16.30395	16.07932	0.44326		6.03E-05	3.86E-06	2.75E-03	0.00E+00	2.81E-03
240	UCART4	439823.3	3762470.54	439823.31, 3762470.54	19.53657	19.40783	0.56978		7.23E-05	4.66E-06	3.53E-03	0.00E+00	3.61E-03
241	UCART4	439873.3	3762470.54	439873.31, 3762470.54	23.75579	23.86043	0.74378		8.79E-05	5.73E-06	4.61E-03	0.00E+00	4.71E-03
242	UCART4	439573.3	3762520.54	439573.31, 3762520.54	9.60511	9.50782	0.2356		3.55E-05	2.28E-06	1.46E-03	0.00E+00	1.50E-03
243	UCART4	439623.3	3762520.54	439623.31, 3762520.54	10.9328	10.87353	0.2805		4.05E-05	2.61E-06	1.74E-03	0.00E+00	1.78E-03
244	UCART4	439673.3	3762520.54	439673.31, 3762520.54	12.52239	12.5343	0.33699		4.63E-05	3.01E-06	2.09E-03	0.00E+00	2.14E-03
245	UCART4	439723.3	3762520.54	439723.31, 3762520.54	14.43002	14.5669	0.40867		5.34E-05	3.50E-06	2.53E-03	0.00E+00	2.59E-03
246	UCART4	439773.3	3762520.54	439773.31, 3762520.54	16.72478	17.07193	0.49951		6.19E-05	4.10E-06	3.10E-03	0.00E+00	3.16E-03
247	UCART4	439823.3	3762520.54	439823.31, 3762520.54	19.48346	20.17346	0.61425		7.21E-05	4.84E-06	3.81E-03	0.00E+00	3.89E-03
248	UCART4	439873.3	3762520.54	439873.31, 3762520.54	22.81728	24.09532	0.75634		8.44E-05	5.78E-06	4.69E-03	0.00E+00	4.78E-03
249	UCART4	439573.3	3762570.54	439573.31, 3762570.54	9.80641	9.90096	0.25622		3.63E-05	2.38E-06	1.59E-03	0.00E+00	1.63E-03
250	UCART4	439623.3	3762570.54	439623.31, 3762570.54	10.97814	11.17277	0.29562		4.06E-05	2.68E-06	1.83E-03	0.00E+00	1.88E-03
251	UCART4	439673.3	3762570.54	439673.31, 3762570.54	12.31199	12.65809	0.34189		4.56E-05	3.04E-06	2.12E-03	0.00E+00	2.17E-03
252	UCART4	439723.3	3762570.54	439723.31, 3762570.54	13.82007	14.38717	0.39609		5.11E-05	3.45E-06	2.46E-03	0.00E+00	2.51E-03
253	UCART4	439773.3	3762570.54	439773.31, 3762570.54	15.50567	16.39273	0.45795		5.74E-05	3.94E-06	2.84E-03	0.00E+00	2.90E-03
254	UCART4	439823.3	3762570.54	439823.31, 3762570.54	17.35328	18.69612	0.52533		6.42E-05	4.49E-06	3.26E-03	0.00E+00	3.33E-03
255	UCART4	439873.3	3762570.54	439873.31, 3762570.54	19.30032	21.30301	0.59233		7.14E-05	5.11E-06	3.67E-03	0.00E+00	3.75E-03
256	UCART4	439573.3	3762620.54	439573.31, 3762620.54	9.41632	9.70389	0.24368		3.48E-05	2.33E-06	1.51E-03	0.00E+00	1.55E-03
257	UCART4	439623.3	3762620.54	439623.31, 3762620.54	10.30432	10.73015	0.26945		3.81E-05	2.58E-06	1.67E-03	0.00E+00	1.71E-03
258	UCART4	439673.3	3762620.54	439673.31, 3762620.54	11.2482	11.85874	0.29633		4.16E-05	2.85E-06	1.84E-03	0.00E+00	1.88E-03
259	UCART4	439723.3	3762620.54	439723.31, 3762620.54	12.22565	13.08105	0.3231		4.52E-05	3.14E-06	2.00E-03	0.00E+00	2.05E-03
260	UCART4	439773.3	3762620.54	439773.31, 3762620.54	13.39939	14.37463	0.34729		4.96E-05	3.45E-06	2.15E-03	0.00E+00	2.21E-03
261	UCART4	439823.3	3762620.54	439823.31, 3762620.54	15.73415	16.09515	0.38687		5.82E-05	3.86E-06	2.40E-03	0.00E+00	2.46E-03
262	UCART4	439873.3	3762620.54	439873.31, 3762620.54	18.26107	19.09435	0.4594		6.76E-05	4.58E-06	2.85E-03	0.00E+00	2.92E-03
263	UCART4	439573.3	3762670.54	439573.31, 3762670.54	8.56279	8.9914	0.20452		3.17E-05	2.16E-06	1.27E-03	0.00E+00	1.30E-03
264	UCART4	439623.3	3762670.54	439623.31, 3762670.54	9.12679	9.69886	0.2147		3.38E-05	2.33E-06	1.33E-03	0.00E+00	1.37E-03
265	UCART4	439673.3	3762670.54	439673.31, 3762670.54	10.11593	10.41931	0.22334		3.74E-05	2.50E-06	1.38E-03	0.00E+00	1.42E-03
266	UCART4	439723.3	3762670.54	439723.31, 3762670.54	11.58767	11.75117	0.2598		4.29E-05	2.82E-06	1.61E-03	0.00E+00	1.66E-03
267	UCART4	439773.3	3762670.54	439773.31, 3762670.54	13.14733	13.53786	0.29887		4.87E-05	3.25E-06	1.85E-03	0.00E+00	1.91E-03
268	UCART4	439823.3	3762670.54	439823.31, 3762670.54	14.69354	15.43278	0.35113		5.44E-05	3.70E-06	2.18E-03	0.00E+00	2.24E-03
269	UCART4	439873.3	3762670.54	439873.31, 3762670.54	16.83288	17.27094	0.39783		6.23E-05	4.15E-06	2.47E-03	0.00E+00	2.53E-03
270	UCART5	439152.4	3761448.92	439152.35, 3761448.92	2.99714	2.86012	0.07983		1.11E-05	6.87E-07	4.95E-04	0.00E+00	5.07E-04
271	UCART5	439202.4	3761448.92	439202.35, 3761448.92	3.02582	2.86205	0.08091		1.12E-05	6.87E-07	5.02E-04	0.00E+00	5.14E-04
272	UCART5	439252.4	3761448.92	439252.35, 3761448.92	3.0257	2.98426	0.08161		1.12E-05	7.16E-07	5.06E-04	0.00E+00	5.18E-04
273	UCART5	439302.4	3761448.92	439302.35, 3761448.92	3.21493	3.17554	0.08178		1.19E-05	7.62E-07	5.07E-04	0.00E+00	5.20E-04
274	UCART5	439352.4	3761448.92	439352.35, 3761448.92	3.42105	3.34627	0.08137		1.27E-05	8.03E-07	5.05E-04	0.00E+00	5.18E-04
275	UCART5	439402.4	3761448.92	439402.35, 3761448.92	3.59736	3.48591	0.08027		1.33E-05	8.37E-07	4.98E-04	0.00E+00	5.12E-04
276	UCART5	439452.4	3761448.92	439452.35, 3761448.92	3.73074	3.58347	0.07848		1.38E-05	8.60E-07	4.87E-04	0.00E+00	5.01E-04
277	UCART5	439502.4	3761448.92	439502.35, 3761448.92	3.82136	3.64116	0.07598		1.41E-05	8.74E-07	4.71E-04	0.00E+00	4.86E-04
278	UCART5	439552.4	3761448.92	439552.35, 3761448.92	3.84197	3.63391	0.07371		1.42E-05	8.72E-07	4.57E-04	0.00E+00	4.72E-04
279	UCART5	439152.4	3761498.92	439152.35, 3761498.92	3.16093	3.046	0.08106		1.17E-05	7.31E-07	5.03E-04	0.00E+00	5.15E-04
280	UCART5	439202.4	3761498.92	439202.35, 3761498.92	3.24549	3.09846	0.08281		1.20E-05	7.44E-07	5.13E-04	0.00E+00	5.26E-04
281	UCART5	439252.4	3761498.92	439252.35, 3761498.92	3.30307	3.12405	0.0842		1.22E-05	7.50E-07	5.22E-04	0.00E+00	5.35E-04
282	UCART5	439302.4	3761498.92	439302.35, 3761498.92	3.3004	3.24711	0.08505		1.22E-05	7.80E-07	5.27E-04	0.00E+00	5.40E-04
283	UCART5	439352.4	3761498.92	439352.35, 3761498.92	3.50092	3.4588	0.08534		1.30E-05	8.30E-07	5.29E-04	0.00E+00	5.43E-04
284	UCART5	439402.4	3761498.92	439402.35, 3761498.92	3.73028	3.6467	0.08501		1.38E-05	8.75E-07	5.27E-04	0.00E+00	5.42E-04
285	UCART5	439452.4	3761498.92	439452.35, 3761498.92	3.92403	3.79729	0.08393		1.45E-05	9.12E-07	5.20E-04	0.00E+00	5.36E-04
286	UCART5	439502.4	3761498.92	439502.35, 3761498.92	4.08465	3.91547	0.08212		1.51E-05	9.40E-07	5.09E-04	0.00E+00	5.25E-04
287	UCART5	439552.4	3761498.92	439552.35, 3761498.92	4.17413	3.96603	0.07947		1.54E-05	9.52E-07	4.93E-04	0.00E+00	5.09E-04
288	UCART5	439152.4	3761548.92	439152.35, 3761548.92	3.28997	3.20466	0.08166		1.22E-05	7.69E-07	5.06E-04	0.00E+00	5.19E-04
289	UCART5	439202.4	3761548.92	439202.35, 3761548.92	3.42103	3.30056	0.08404		1.27E-05	7.92E-07	5.21E-04	0.00E+00	5.35E-04
290	UCART5	439252.4	3761548.92	439252.35, 3761548.92	3.52917	3.37121	0.08612		1.31E-05	8.09E-07	5.34E-04	0.00E+00	5.48E-04
291	UCART5	439302.4	3761548.92	439302.35, 3761548.92	3.58527	3.38966	0.08771		1.33E-05	8.14E-07	5.44E-04	0.00E+00	5.58E-04
292	UCART5	439352.4	3761548.92	439352.35, 3761548.92	3.59028	3.51776	0.08883		1.33E-05	8.44E-07	5.51E-04	0.00E+00	5.65E-04
293	UCART5	439402.4	3761548.92	439402.35, 3761548.92	3.81331	3.7676	0.08938		1.41E-05	9.04E-07	5.54E-04	0.00E+00	5.69E-04
294	UCART5	439452.4	3761548.92	439452.35, 3761548.92	4.08076	3.98643	0.08923		1.51E-05	9.57E-07	5.53E-04	0.00E+00	5.69E-04
295	UCART5	439502.4	3761548.92	439502.35, 3761548.92	4.30937	4.16379	0.08826		1.59E-05	1.00E-06	5.47E-04	0.00E+00	5.64E-04
296	UCART5	439552.4	3761548.92	439552.35, 3761548.92	4.48506	4.28878	0.08643		1.66E-05	1.03E-06	5.36E-04	0.00E+00	5.54E-04
297	UCART5	439152.4	3761598.92	439152.35, 3761598.92	3.38129	3.33101	0.08153		1.25E-05	8.00E-07	5.06E-04	0.00E+00	5.19E-04
298	UCART5	439202.4	3761598.92	439202.35, 3761598.92	3.55326	3.46755	0.08455		1.31E-05	8.32E-07	5.24E-04	0.00E+00	5.38E-04
299	UCART5	439252.4	3761598.92	439252.35, 3761598.92	3.7145	3.58853	0.08734		1.37E-05	8.61E-07	5.42E-04	0.00E+00	5.56E-04
300	UCART5	439302.4	3761598.92	439302.35, 3761598.92	3.84167	3.67188	0.08979		1.42E-05	8.81E-07	5.57E-04	0.00E+00	5.72E-04
301	UCART5	439352.4	3761598.92	439352.35, 3761598.92	3.91473	3.70016	0.09178		1.45E-05	8.88E-07	5.69E-04	0.00E+00	5.84E-04
302	UCART5	439402.4	3761598.92	439402.35, 3761598.92	3.94607	3.85305	0.09332		1.46E-05	9.25E-07	5.79E-04	0.00E+00	5.94E-04
303	UCART5	439452.4	3761598.92	439452.35, 3761598.92	4.19496	4.14553	0.0942		1.55E-05	9.95E-07	5.84E-04	0.00E+00	6.01E-04
304	UCART5	439502.4	3761598.92	439502.35, 3761598.92	4.50029	4.39284	0.0943		1.67E-05	1.05E-06	5.85E-04	0.00E+00	6.02E-04
305	UCART5	439552.4	3761598.92	439552.35, 3761598.92	4.77327	4.60412	0.09351		1.77E-05	1.11E-06	5.80E-04	0.00E+00	5.99E-04
306	UCART5	439152.4	3761648.92	439152.35, 3761648.92	3.4336	3.42048	0.08059		1.27E-05	8.21E-07	5.00E-04	0.00E+00	5.13E-04

PHASE 2 OPERATIONAL PM2.5 24-HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
3.70E-06	2.40E-07	6.20E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
307	UCART5	439202.4	3761648.92	439202.35, 3761648.92	3.64823	3.60281	0.08427		1.35E-05	8.65E-07	5.23E-04	0.00E+00	5.37E-04
308	UCART5	439252.4	3761648.92	439252.35, 3761648.92	3.86173	3.77684	0.08782		1.43E-05	9.07E-07	5.45E-04	0.00E+00	5.60E-04
309	UCART5	439302.4	3761648.92	439302.35, 3761648.92	4.05553	3.92433	0.09111		1.50E-05	9.42E-07	5.65E-04	0.00E+00	5.81E-04
310	UCART5	439352.4	3761648.92	439352.35, 3761648.92	4.20967	4.02694	0.09407		1.56E-05	9.67E-07	5.83E-04	0.00E+00	6.00E-04
311	UCART5	439402.4	3761648.92	439402.35, 3761648.92	4.32373	4.08682	0.09664		1.60E-05	9.81E-07	5.99E-04	0.00E+00	6.16E-04
312	UCART5	439452.4	3761648.92	439452.35, 3761648.92	4.36896	4.25102	0.09867		1.62E-05	1.02E-06	6.12E-04	0.00E+00	6.29E-04
313	UCART5	439502.4	3761648.92	439502.35, 3761648.92	4.64772	4.59404	0.10003		1.72E-05	1.10E-06	6.20E-04	0.00E+00	6.39E-04
314	UCART5	439552.4	3761648.92	439552.35, 3761648.92	5.01956	4.89602	0.10055		1.86E-05	1.18E-06	6.23E-04	0.00E+00	6.43E-04
315	UCART5	439152.4	3761698.92	439152.35, 3761698.92	3.66072	3.51174	0.07879		1.35E-05	8.43E-07	4.89E-04	0.00E+00	5.03E-04
316	UCART5	439202.4	3761698.92	439202.35, 3761698.92	3.76026	3.69575	0.08308		1.39E-05	8.87E-07	5.15E-04	0.00E+00	5.30E-04
317	UCART5	439252.4	3761698.92	439252.35, 3761698.92	3.94867	3.90997	0.08732		1.46E-05	9.39E-07	5.41E-04	0.00E+00	5.57E-04
318	UCART5	439302.4	3761698.92	439302.35, 3761698.92	4.20393	4.12122	0.09149		1.56E-05	9.89E-07	5.67E-04	0.00E+00	5.84E-04
319	UCART5	439352.4	3761698.92	439352.35, 3761698.92	4.44476	4.30888	0.09548		1.64E-05	1.03E-06	5.92E-04	0.00E+00	6.10E-04
320	UCART5	439402.4	3761698.92	439402.35, 3761698.92	4.65561	4.45876	0.09918		1.72E-05	1.07E-06	6.15E-04	0.00E+00	6.33E-04
321	UCART5	439452.4	3761698.92	439452.35, 3761698.92	4.78666	4.52437	0.10243		1.77E-05	1.09E-06	6.35E-04	0.00E+00	6.54E-04
322	UCART5	439502.4	3761698.92	439502.35, 3761698.92	4.86954	4.71971	0.10521		1.80E-05	1.13E-06	6.52E-04	0.00E+00	6.72E-04
323	UCART5	439552.4	3761698.92	439552.35, 3761698.92	5.18821	5.12958	0.10724		1.92E-05	1.23E-06	6.65E-04	0.00E+00	6.85E-04
324	UCART5	439152.4	3761748.92	439152.35, 3761748.92	3.85331	3.73461	0.07608		1.43E-05	8.97E-07	4.72E-04	0.00E+00	4.87E-04
325	UCART5	439202.4	3761748.92	439202.35, 3761748.92	4.01831	3.86675	0.08092		1.49E-05	9.28E-07	5.02E-04	0.00E+00	5.18E-04
326	UCART5	439252.4	3761748.92	439252.35, 3761748.92	4.15083	4.00335	0.08583		1.54E-05	9.61E-07	5.32E-04	0.00E+00	5.49E-04
327	UCART5	439302.4	3761748.92	439302.35, 3761748.92	4.30092	4.27163	0.09085		1.59E-05	1.03E-06	5.63E-04	0.00E+00	5.80E-04
328	UCART5	439352.4	3761748.92	439352.35, 3761748.92	4.60388	4.52552	0.09581		1.70E-05	1.09E-06	5.94E-04	0.00E+00	6.12E-04
329	UCART5	439402.4	3761748.92	439402.35, 3761748.92	4.89605	4.75644	0.10067		1.81E-05	1.14E-06	6.24E-04	0.00E+00	6.43E-04
330	UCART5	439452.4	3761748.92	439452.35, 3761748.92	5.14396	4.93211	0.10529		1.90E-05	1.18E-06	6.53E-04	0.00E+00	6.73E-04
331	UCART5	439502.4	3761748.92	439502.35, 3761748.92	5.32809	5.03653	0.10956		1.97E-05	1.21E-06	6.79E-04	0.00E+00	7.00E-04
332	UCART5	439552.4	3761748.92	439552.35, 3761748.92	5.45049	5.25675	0.11337		2.02E-05	1.26E-06	7.03E-04	0.00E+00	7.24E-04
333	UCART5	439152.4	3761798.92	439152.35, 3761798.92	3.98225	3.9059	0.07255		1.47E-05	9.38E-07	4.50E-04	0.00E+00	4.66E-04
334	UCART5	439202.4	3761798.92	439202.35, 3761798.92	4.21303	4.10208	0.07781		1.56E-05	9.85E-07	4.82E-04	0.00E+00	4.99E-04
335	UCART5	439252.4	3761798.92	439252.35, 3761798.92	4.424	4.27405	0.08331		1.64E-05	1.03E-06	5.17E-04	0.00E+00	5.34E-04
336	UCART5	439302.4	3761798.92	439302.35, 3761798.92	4.6352	4.44299	0.08907		1.72E-05	1.07E-06	5.52E-04	0.00E+00	5.70E-04
337	UCART5	439352.4	3761798.92	439352.35, 3761798.92	4.79521	4.68921	0.09496		1.77E-05	1.13E-06	5.89E-04	0.00E+00	6.08E-04
338	UCART5	439402.4	3761798.92	439402.35, 3761798.92	5.06761	4.99648	0.10098		1.88E-05	1.20E-06	6.26E-04	0.00E+00	6.46E-04
339	UCART5	439452.4	3761798.92	439452.35, 3761798.92	5.4349	5.29331	0.10704		2.01E-05	1.27E-06	6.64E-04	0.00E+00	6.85E-04
340	UCART5	439502.4	3761798.92	439502.35, 3761798.92	5.73463	5.50682	0.11296		2.12E-05	1.32E-06	7.00E-04	0.00E+00	7.23E-04
341	UCART5	439552.4	3761798.92	439552.35, 3761798.92	6.01286	5.68638	0.11868		2.23E-05	1.37E-06	7.36E-04	0.00E+00	7.59E-04
342	UCART5	439152.4	3761848.92	439152.35, 3761848.92	4.03773	4.01237	0.06824		1.49E-05	9.63E-07	4.23E-04	0.00E+00	4.39E-04
343	UCART5	439202.4	3761848.92	439202.35, 3761848.92	4.32121	4.26376	0.07377		1.60E-05	1.02E-06	4.57E-04	0.00E+00	4.74E-04
344	UCART5	439252.4	3761848.92	439252.35, 3761848.92	4.59633	4.49979	0.07968		1.70E-05	1.08E-06	4.94E-04	0.00E+00	5.12E-04
345	UCART5	439302.4	3761848.92	439302.35, 3761848.92	4.88321	4.74127	0.08604		1.81E-05	1.14E-06	5.33E-04	0.00E+00	5.53E-04
346	UCART5	439352.4	3761848.92	439352.35, 3761848.92	5.13896	4.94575	0.09277		1.90E-05	1.19E-06	5.75E-04	0.00E+00	5.95E-04
347	UCART5	439402.4	3761848.92	439402.35, 3761848.92	5.40804	5.18455	0.09994		2.00E-05	1.24E-06	6.20E-04	0.00E+00	6.41E-04
348	UCART5	439452.4	3761848.92	439452.35, 3761848.92	5.6265	5.56705	0.10738		2.08E-05	1.34E-06	6.66E-04	0.00E+00	6.88E-04
349	UCART5	439502.4	3761848.92	439502.35, 3761848.92	6.04284	5.90156	0.11501		2.24E-05	1.42E-06	7.13E-04	0.00E+00	7.37E-04
350	UCART5	439552.4	3761848.92	439552.35, 3761848.92	6.48066	6.23621	0.12283		2.40E-05	1.50E-06	7.62E-04	0.00E+00	7.87E-04
351	UCART5	439152.4	3761898.92	439152.35, 3761898.92	4.01734	4.047	0.06316		1.49E-05	9.72E-07	3.92E-04	0.00E+00	4.07E-04
352	UCART5	439202.4	3761898.92	439202.35, 3761898.92	4.34008	4.34406	0.06886		1.61E-05	1.04E-06	4.27E-04	0.00E+00	4.44E-04
353	UCART5	439252.4	3761898.92	439252.35, 3761898.92	4.67216	4.64221	0.07506		1.73E-05	1.11E-06	4.65E-04	0.00E+00	4.84E-04
354	UCART5	439302.4	3761898.92	439302.35, 3761898.92	5.04892	4.97708	0.08186		1.87E-05	1.19E-06	5.08E-04	0.00E+00	5.27E-04
355	UCART5	439352.4	3761898.92	439352.35, 3761898.92	5.41057	5.28647	0.08928		2.00E-05	1.27E-06	5.54E-04	0.00E+00	5.75E-04
356	UCART5	439402.4	3761898.92	439402.35, 3761898.92	5.77029	5.58445	0.09733		2.14E-05	1.34E-06	6.03E-04	0.00E+00	6.26E-04
357	UCART5	439452.4	3761898.92	439452.35, 3761898.92	6.14131	5.88512	0.10608		2.27E-05	1.41E-06	6.58E-04	0.00E+00	6.82E-04
358	UCART5	439502.4	3761898.92	439502.35, 3761898.92	6.45325	6.25847	0.11545		2.39E-05	1.50E-06	7.16E-04	0.00E+00	7.41E-04
359	UCART5	439552.4	3761898.92	439552.35, 3761898.92	6.86182	6.72658	0.12534		2.54E-05	1.61E-06	7.77E-04	0.00E+00	8.04E-04
360	UCART5	439152.4	3761948.92	439152.35, 3761948.92	3.91388	3.99683	0.06261		1.45E-05	9.59E-07	3.88E-04	0.00E+00	4.04E-04
361	UCART5	439202.4	3761948.92	439202.35, 3761948.92	4.26297	4.32982	0.06373		1.58E-05	1.04E-06	3.95E-04	0.00E+00	4.12E-04
362	UCART5	439252.4	3761948.92	439252.35, 3761948.92	4.63545	4.67808	0.06944		1.72E-05	1.12E-06	4.31E-04	0.00E+00	4.49E-04
363	UCART5	439302.4	3761948.92	439302.35, 3761948.92	5.07646	5.08735	0.07654		1.88E-05	1.22E-06	4.75E-04	0.00E+00	4.95E-04
364	UCART5	439352.4	3761948.92	439352.35, 3761948.92	5.53023	5.49675	0.0844		2.05E-05	1.32E-06	5.23E-04	0.00E+00	5.45E-04
365	UCART5	439402.4	3761948.92	439402.35, 3761948.92	5.99096	5.89924	0.09318		2.22E-05	1.42E-06	5.78E-04	0.00E+00	6.01E-04
366	UCART5	439452.4	3761948.92	439452.35, 3761948.92	6.50361	6.34006	0.10301		2.41E-05	1.52E-06	6.39E-04	0.00E+00	6.64E-04
367	UCART5	439502.4	3761948.92	439502.35, 3761948.92	7.0002	6.74945	0.11454		2.59E-05	1.62E-06	7.10E-04	0.00E+00	7.38E-04
368	UCART5	439552.4	3761948.92	439552.35, 3761948.92	7.46662	7.11526	0.12581		2.76E-05	1.71E-06	7.80E-04	0.00E+00	8.09E-04
369	UCART5	439152.4	3761998.92	439152.35, 3761998.92	3.84592	3.86872	0.06563		1.42E-05	9.29E-07	4.07E-04	0.00E+00	4.22E-04
370	UCART5	439202.4	3761998.92	439202.35, 3761998.92	4.0954	4.22017	0.06739		1.52E-05	1.01E-06	4.18E-04	0.00E+00	4.34E-04
371	UCART5	439252.4	3761998.92	439252.35, 3761998.92	4.48999	4.60317	0.07154		1.66E-05	1.11E-06	4.44E-04	0.00E+00	4.61E-04
372	UCART5	439302.4	3761998.92	439302.35, 3761998.92	4.96947	5.06586	0.07603		1.84E-05	1.22E-06	4.71E-04	0.00E+00	4.91E-04
373	UCART5	439352.4	3761998.92	439352.35, 3761998.92	5.49199	5.55996	0.08146		2.03E-05	1.33E-06	5.05E-04	0.00E+00	5.27E-04
374	UCART5	439402.4	3761998.92	439402.35, 3761998.92	6.03231	6.0556	0.08855		2.23E-05	1.45E-06	5.49E-04	0.00E+00	5.73E-04
375	UCART5	439452.4	3761998.92	439452.35, 3761998.92	6.64402	6.60667	0.09894		2.46E-05	1.59E-06	6.13E-04	0.00E+00	6.40E-04
376	UCART5	439502.4	3761998.92	439502.35, 3761998.92	7.29344	7.17449	0.11524		2.70E-05	1.72E-06	7.15E-04	0.00E+00	7.43E-04
377	UCART5	439552.4	3761998.92	439552.35, 3761998.92	7.97454	7.75074	0.13193		2.95E-05	1.86E-06	8.18E-04	0.00E+00	8.49E-04
378	UCART5	439152.4	3762048.92	439152.35, 3762048.92	3.83022	3.82544	0.07452		1.42E-05	9.18E-07	4.62E-04	0.00E+00	4.77E-04
379	UCART5	439202.4	3762048.92	439202.35, 3762048.92	4.12534	4.10586	0.07759		1.53E-05	9.86E-07	4.81E-04	0.00E+00	4.97E-04
380	UCART5	439252.4	3762048.92	439252.35, 3762048.92	4.44413	4.45956	0.08067		1.64E-05	1.07E-06	5.00E-04	0.00E+00	5.18E-04
381	UCART5	439302.4	3762048.92	439302.35, 3762048.92	4.79249	4.93026	0.0837		1.77E-05	1.18E-06	5.19E-04	0.00E+00	5.38E-04
382	UCART5	439352.4	3762048.92	439352.35, 3762048.92	5.29036	5.45678	0.08999		1.96E-05	1.31E-06	5.58E-04	0.00E+00	5.79E-04
383	UCART5	439402.4	3762048.92	439402.35, 3762048.92	5.8904	6.0347	0.09697		2.18E-05	1.45E-06	6.01E-04	0.00E+00	6.25E-04
384	UCART5	439452.4	3762048.92	439452.35, 3762048.92	6.58302	6.69055	0.10413		2.44E-05	1.61E-06	6.46E-04	0.00E+00	6.72E-04
385	UCART5	439502.4	3762048.92	439502.35, 3762048.92	7.35494	7.40387	0.11503		2.72E-05	1.78E-06	7.13E-04	0.00E+00	7.42E-04
386	UCART5	439552.4	3762048.92	439552.35, 3762048.92	8.20424	8.16642	0.12786		3.04E-05	1.96E-06	7.93E-04	0.00E+00	8.25E-04
387	UCART6	439616.6	3761420.65	439616.61, 3761420.65	3.55298	3.34477	0.10949		1.31E-05	8.03E-07	6.79E-04	0.00E+00	6.93E-04
388	UCART6	439666.6	3761420.65	439666.61, 3761420.65	3.59222	3.3904	0.13439		1.33E-05	8.14E-07	8.33E-04	0.00E+00	8.47E-04
389	UCART6	439716.6	3761420.65	439716.61, 3761420.65	3.57618	3.37737	0.15651		1.32E-05	8.11E-07	9.70E-04	0.00E+00	9.84E-04
390	UCART6	439766.6	3761420.65	439766.61, 3761420.65	3.65164	3.52592	0.17219		1.35E-05	8.46E-07	1.07E-03	0.00E+00	1.08E-03
391	UCART6	439816.6	3761420.65	439816.61, 3761420.65	3.78191	3.59129	0.17807		1.40E-05	8.62E-07	1.10E-03	0.00E+00	1.12E-03
392	UCART6	439866.6	3761420.65	439866.61, 3761420.65	3.79153	3.65161	0.17214		1.40E-05	8.77E-07	1.07E-03	0.00E+00	1.08E-03
393	UCART6	439616.6	3761470.65	439616.61, 3761470.65	3.94354	3.70209	0.10267		1.46E-05	8.89E-07	6.37E-04	0.00E+00	6.52E-04
394	UCART6	439666.6	3761470.65	439666.61, 3761470.65	3.83561	3.64089	0.13099		1.42E-05	8.74E-07	8.12E-04	0.00E+00	8.27E-04
395	UCART6	439716.6	3761470.65	439716.61, 3761470.65	3.89228	3.6523	0.15845		1.44E-05	8.77E-07	9.82E-04	0.00E+00	9.98E-04
396	UCART6	439766.6	3761470.65	439766.61, 3761470.65	3.84941	3.73176	0.18078		1.42E-05	8.96E-07	1.12E-03	0.00E+00	1.14E-03
397	UCART6	439816.6	3761470.65	439816.61, 3761470.65	4.03443	3.85813	0.19363		1.49E-05	9.26E-07	1.20E-03	0.00E+00	1.22E-03
398	UCART6	439866.6	3761470.65	439866.61, 3761470.65	4.12563	3.91107	0.19346		1.53E-05	9.39E-07	1.20E-03	0.00E+00	1.22E-03
399	UCART6	439616.6	3761520.65	439616.61, 3761520.65	4.3525	4.09975	0.09376		1.61E-05	9.84E-07	5.81E-04	0.00E+00	5.98E-04
400	UCART6	439666.6	3761520.65	439666.61, 3761520.65	4.29479	4.01359	0.12477		1.59E-05	9.64E-07	7.74E-04	0.00E+00	7.90E-04
401	UCART6	439716.6	3761520.65	439716.61, 3761520.65	4.19713	3.97185	0.15721		1.55E-05	9.53E-07	9.75E-04	0.00E+00	9.91E-04
402	UCART6	439766.6	3761520.65	439766.61, 3761520.65	4.23101	3.9604	0.18672		1.57E-05	9.51E-07	1.16E-03	0.00E+00	1.17E-03
403	UCART6	439816.6	3761520.65	439816.61, 3761520.65	4.29607	4.14008	0.20786		1.59E-05	9.94E-07	1.29E-03	0.00E+00	1.31E-03
404	UCART6	439866.6	3761520.65	439866.61, 3761520.65	4.47698	4.23531	0.21544		1.66E-05	1.02E-06	1.34E-03	0.00E+00	1.35E-03
405	UCART6	439616.6	3761570.65	439616.61, 3761570.65	4.77554	4.52187	0.08626		1.77E-05	1.09E-06	5.35E-04	0.00E+00	5.54E-04
406	UCART6	439666.6	3761570.65	439666.61, 3761570.65	4.79129	4.49365	0.11563		1.77E-05	1.08E-06	7.17E-04	0.00E+00	7.36E-04
407	UCART6	439716.6	3761570.65	439716.61, 3761570.65	4.70554	4.37417	0.15242		1.74E-05	1.05E-06	9.45E-04	0.00E+00	9.64E-04
408	UCART6	439766.6	3761570.65	439766.61, 3761570.65	4.63284	4.35441	0.18913		1.71E-05	1.05E-06	1.17E-03	0.00E+00	1.19E-03

PHASE 2 OPERATIONAL PM2.5 24-HOUR

Unmitigated		
Onsite Running	Onsite Idle	Generator
3.70E-06	2.40E-07	6.20E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s				Concentration (AVERAGE CONC) [ug/m^3]				
					Onsite Running	Onsite Idle	Generator	Offsite	Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
409	UCART6	439816.6	3761570.65	439816.61, 3761570.65	4.60238	4.44475	0.21963		1.70E-05	1.07E-06	1.36E-03	0.00E+00	1.38E-03
410	UCART6	439866.6	3761570.65	439866.61, 3761570.65	4.82986	4.60704	0.23714		1.79E-05	1.11E-06	1.47E-03	0.00E+00	1.49E-03
411	UCART7	440451.1	3762893.83	440451.14, 3762893.83	8.24378	8.90284	0.54775		3.05E-05	2.14E-06	3.40E-03	0.00E+00	3.43E-03
412	UCART7	440501.1	3762893.83	440501.14, 3762893.83	8.53419	9.31202	0.56694		3.16E-05	2.24E-06	3.52E-03	0.00E+00	3.55E-03
413	UCART7	440551.1	3762893.83	440551.14, 3762893.83	9.36107	9.90269	0.51532		3.46E-05	2.38E-06	3.20E-03	0.00E+00	3.23E-03
414	UCART7	440601.1	3762893.83	440601.14, 3762893.83	10.16406	11.29508	0.41883		3.76E-05	2.71E-06	2.60E-03	0.00E+00	2.64E-03
415	UCART7	440651.1	3762893.83	440651.14, 3762893.83	11.58349	12.25157	0.31052		4.29E-05	2.94E-06	1.93E-03	0.00E+00	1.97E-03
416	UCART7	440701.1	3762893.83	440701.14, 3762893.83	12.01065	12.23623	0.23438		4.44E-05	2.94E-06	1.45E-03	0.00E+00	1.50E-03
417	UCART7	440751.1	3762893.83	440751.14, 3762893.83	11.66817	11.28242	0.23601		4.32E-05	2.71E-06	1.46E-03	0.00E+00	1.51E-03
418	UCART7	440801.1	3762893.83	440801.14, 3762893.83	10.70278	10.28119	0.22016		3.96E-05	2.47E-06	1.37E-03	0.00E+00	1.41E-03
419	UCART7	440851.1	3762893.83	440851.14, 3762893.83	9.32368	9.8006	0.19324		3.45E-05	2.35E-06	1.20E-03	0.00E+00	1.24E-03
420	UCART7	440451.1	3762943.83	440451.14, 3762943.83	7.30219	7.73203	0.42393		2.70E-05	1.86E-06	2.63E-03	0.00E+00	2.66E-03
421	UCART7	440501.1	3762943.83	440501.14, 3762943.83	7.48872	7.95647	0.4633		2.77E-05	1.91E-06	2.87E-03	0.00E+00	2.90E-03
422	UCART7	440551.1	3762943.83	440551.14, 3762943.83	8.02097	8.72167	0.4489		2.97E-05	2.09E-06	2.78E-03	0.00E+00	2.82E-03
423	UCART7	440601.1	3762943.83	440601.14, 3762943.83	8.86331	9.77704	0.3904		3.28E-05	2.35E-06	2.42E-03	0.00E+00	2.46E-03
424	UCART7	440651.1	3762943.83	440651.14, 3762943.83	9.73927	10.53784	0.31118		3.60E-05	2.53E-06	1.93E-03	0.00E+00	1.97E-03
425	UCART7	440701.1	3762943.83	440701.14, 3762943.83	10.53952	10.866	0.22994		3.90E-05	2.61E-06	1.43E-03	0.00E+00	1.47E-03
426	UCART7	440751.1	3762943.83	440751.14, 3762943.83	10.40866	10.5236	0.19511		3.85E-05	2.53E-06	1.21E-03	0.00E+00	1.25E-03
427	UCART7	440801.1	3762943.83	440801.14, 3762943.83	10.2679	10.05901	0.19588		3.80E-05	2.41E-06	1.21E-03	0.00E+00	1.25E-03
428	UCART7	440851.1	3762943.83	440851.14, 3762943.83	9.60049	9.22221	0.18442		3.55E-05	2.21E-06	1.14E-03	0.00E+00	1.18E-03
429	UCART8	441116.7	3763135.31	441116.67, 3763135.31	5.72979	6.11184	0.09268		2.12E-05	1.47E-06	5.75E-04	0.00E+00	5.97E-04
430	UCART8	441166.7	3763135.31	441166.67, 3763135.31	5.83337	6.12326	0.08495		2.16E-05	1.47E-06	5.27E-04	0.00E+00	5.50E-04
431	UCART8	441116.7	3763185.31	441116.67, 3763185.31	5.58846	5.36454	0.08925		2.07E-05	1.29E-06	5.53E-04	0.00E+00	5.75E-04
432	UCART8	441166.7	3763185.31	441166.67, 3763185.31	5.13763	5.4788	0.08284		1.90E-05	1.32E-06	5.14E-04	0.00E+00	5.34E-04
433	UCART8	441116.7	3763235.31	441116.67, 3763235.31	5.67011	5.47731	0.08309		2.10E-05	1.31E-06	5.15E-04	0.00E+00	5.37E-04
434	UCART8	441166.7	3763235.31	441166.67, 3763235.31	5.11361	4.87863	0.07938		1.89E-05	1.17E-06	4.92E-04	0.00E+00	5.12E-04
435	UCART8	441116.7	3763285.31	441116.67, 3763285.31	5.71613	5.60013	0.07828		2.12E-05	1.34E-06	4.85E-04	0.00E+00	5.08E-04
436	UCART8	441166.7	3763285.31	441166.67, 3763285.31	5.22298	5.04936	0.07402		1.93E-05	1.21E-06	4.59E-04	0.00E+00	4.80E-04
437	UCART8	441116.7	3763335.31	441116.67, 3763335.31	5.60788	5.57573	0.07437		2.08E-05	1.34E-06	4.61E-04	0.00E+00	4.83E-04
438	UCART8	441166.7	3763335.31	441166.67, 3763335.31	5.26664	5.1569	0.07062		1.95E-05	1.24E-06	4.38E-04	0.00E+00	4.59E-04
439	UCART8	441116.7	3763385.31	441116.67, 3763385.31	5.37879	5.42655	0.06785		1.99E-05	1.30E-06	4.21E-04	0.00E+00	4.42E-04
440	UCART8	441166.7	3763385.31	441166.67, 3763385.31	5.21318	5.16977	0.0675		1.93E-05	1.24E-06	4.19E-04	0.00E+00	4.39E-04
441	UCART8	441116.7	3763435.31	441116.67, 3763435.31	5.07663	5.19568	0.06234		1.88E-05	1.25E-06	3.87E-04	0.00E+00	4.07E-04
442	UCART8	441166.7	3763435.31	441166.67, 3763435.31	5.02747	5.05054	0.06207		1.86E-05	1.21E-06	3.85E-04	0.00E+00	4.05E-04
443	UCART9	440433.4	3762815.13	440433.43, 3762815.13	10.36617	11.34457	0.8062		3.84E-05	2.72E-06	5.00E-03	0.00E+00	5.04E-03
444	UCART9	440483.4	3762815.13	440483.43, 3762815.13	10.54696	12.07258	0.78689		3.90E-05	2.90E-06	4.88E-03	0.00E+00	4.92E-03
445	UCART9	440533.4	3762815.13	440533.43, 3762815.13	11.6533	13.40086	0.6604		4.31E-05	3.22E-06	4.09E-03	0.00E+00	4.14E-03
446	UCART9	440583.4	3762815.13	440583.43, 3762815.13	13.12368	14.44461	0.48832		4.86E-05	3.47E-06	3.03E-03	0.00E+00	3.08E-03
447	UCART9	440633.4	3762815.13	440633.43, 3762815.13	13.74853	14.0385	0.33002		5.09E-05	3.37E-06	2.05E-03	0.00E+00	2.10E-03
448	UCART9	440683.4	3762815.13	440683.43, 3762815.13	13.28779	12.96909	0.32497		4.92E-05	3.11E-06	2.01E-03	0.00E+00	2.07E-03
449	UCART9	440733.4	3762815.13	440733.43, 3762815.13	12.31571	12.39997	0.29217		4.56E-05	2.98E-06	1.81E-03	0.00E+00	1.86E-03
450	UCART9	440783.4	3762815.13	440783.43, 3762815.13	11.62972	12.05458	0.24486		4.30E-05	2.89E-06	1.52E-03	0.00E+00	1.56E-03
451	UCART9	440833.4	3762815.13	440833.43, 3762815.13	11.57135	12.12875	0.1945		4.28E-05	2.91E-06	1.21E-03	0.00E+00	1.25E-03
452	UCART9	440883.4	3762815.13	440883.43, 3762815.13	11.53251	11.67454	0.16361		4.27E-05	2.80E-06	1.01E-03	0.00E+00	1.06E-03
453	UCART9	440933.4	3762815.13	440933.43, 3762815.13	10.89266	10.71718	0.16506		4.03E-05	2.57E-06	1.02E-03	0.00E+00	1.07E-03
454	UCART9	440983.4	3762815.13	440983.43, 3762815.13	10.16152	9.91405	0.16016		3.76E-05	2.38E-06	9.93E-04	0.00E+00	1.03E-03
455	UCART9	440433.4	3762865.13	440433.43, 3762865.13	9.15684	9.51043	0.61251		3.39E-05	2.28E-06	3.80E-03	0.00E+00	3.83E-03
456	UCART9	440483.4	3762865.13	440483.43, 3762865.13	8.95144	10.05018	0.64398		3.31E-05	2.41E-06	3.99E-03	0.00E+00	4.03E-03
457	UCART9	440533.4	3762865.13	440533.43, 3762865.13	9.39989	10.6619	0.58686		3.48E-05	2.56E-06	3.64E-03	0.00E+00	3.68E-03
458	UCART9	440583.4	3762865.13	440583.43, 3762865.13	10.39351	12.12674	0.47417		3.85E-05	2.91E-06	2.94E-03	0.00E+00	2.98E-03
459	UCART9	440633.4	3762865.13	440633.43, 3762865.13	11.88567	13.0026	0.34646		4.40E-05	3.12E-06	2.15E-03	0.00E+00	2.20E-03
460	UCART9	440683.4	3762865.13	440683.43, 3762865.13	12.26841	12.83216	0.26547		4.54E-05	3.08E-06	1.65E-03	0.00E+00	1.69E-03
461	UCART9	440733.4	3762865.13	440733.43, 3762865.13	11.93962	11.92862	0.26212		4.42E-05	2.86E-06	1.63E-03	0.00E+00	1.67E-03
462	UCART9	440783.4	3762865.13	440783.43, 3762865.13	10.82859	10.90032	0.23922		4.01E-05	2.62E-06	1.48E-03	0.00E+00	1.53E-03
463	UCART9	440833.4	3762865.13	440833.43, 3762865.13	10.02668	10.29271	0.20521		3.71E-05	2.47E-06	1.27E-03	0.00E+00	1.31E-03
464	UCART9	440883.4	3762865.13	440883.43, 3762865.13	9.58475	10.08055	0.16775		3.55E-05	2.42E-06	1.04E-03	0.00E+00	1.08E-03
465	UCART9	440933.4	3762865.13	440933.43, 3762865.13	9.53806	9.7475	0.13832		3.53E-05	2.34E-06	8.58E-04	0.00E+00	8.95E-04
466	UCART9	440983.4	3762865.13	440983.43, 3762865.13	9.31833	9.31333	0.13203		3.45E-05	2.24E-06	8.19E-04	0.00E+00	8.55E-04
467	UCART10	441118.3	3762686.02	441118.27, 3762686.02	8.24818	8.14515	0.16811		3.05E-05	1.96E-06	1.04E-03	0.00E+00	1.07E-03
468	UCART10	441168.3	3762686.02	441168.27, 3762686.02	7.57909	7.83584	0.146		2.80E-05	1.88E-06	9.05E-04	0.00E+00	9.35E-04
469	UCART10	441118.3	3762736.02	441118.27, 3762736.02	7.86859	7.67942	0.17017		2.91E-05	1.84E-06	1.06E-03	0.00E+00	1.09E-03
470	UCART10	441168.3	3762736.02	441168.27, 3762736.02	7.37099	7.12665	0.15425		2.73E-05	1.71E-06	9.56E-04	0.00E+00	9.85E-04
471	UCART10	441118.3	3762786.02	441118.27, 3762786.02	8.09847	7.51279	0.15147		3.00E-05	1.80E-06	9.39E-04	0.00E+00	9.71E-04
472	UCART10	441168.3	3762786.02	441168.27, 3762786.02	7.27499	6.82252	0.14475		2.69E-05	1.64E-06	8.98E-04	0.00E+00	9.26E-04
473	UCART10	441118.3	3762836.02	441118.27, 3762836.02	8.13284	7.72476	0.12799		3.01E-05	1.85E-06	7.94E-04	0.00E+00	8.26E-04
474	UCART10	441168.3	3762836.02	441168.27, 3762836.02	7.45195	7.01351	0.12143		2.76E-05	1.68E-06	7.53E-04	0.00E+00	7.82E-04
475	UCART11	440411.7	3762093.41	440411.67, 3762093.41	26.13586	23.86298	0.73219		9.67E-05	5.73E-06	4.54E-03	0.00E+00	4.64E-03
476	UCART11	440461.7	3762093.41	440461.67, 3762093.41	23.70395	21.4217	0.65082		8.77E-05	5.14E-06	4.04E-03	0.00E+00	4.13E-03
477	UCART11	440511.7	3762093.41	440511.67, 3762093.41	19.27606	17.2877	0.59958		7.13E-05	4.15E-06	3.72E-03	0.00E+00	3.79E-03
478	UCART11	440561.7	3762093.41	440561.67, 3762093.41	15.46486	13.83326	0.53364		5.72E-05	3.32E-06	3.31E-03	0.00E+00	3.37E-03
479	UCART11	440611.7	3762093.41	440611.67, 3762093.41	12.65944	11.40569	0.44228		4.68E-05	2.74E-06	2.74E-03	0.00E+00	2.79E-03
480	UCART11	440411.7	3762143.41	440411.67, 3762143.41	33.42308	30.13575	0.99778		1.24E-04	7.23E-06	6.19E-03	0.00E+00	6.32E-03
481	UCART11	440461.7	3762143.41	440461.67, 3762143.41	27.32143	24.26724	0.87381		1.01E-04	5.83E-06	5.42E-03	0.00E+00	5.52E-03
482	UCART11	440511.7	3762143.41	440511.67, 3762143.41	21.64766	18.96046	0.76932		8.01E-05	4.55E-06	4.77E-03	0.00E+00	4.85E-03
483	UCART11	440561.7	3762143.41	440561.67, 3762143.41	17.2646	15.21421	0.61989		6.39E-05	3.65E-06	3.84E-03	0.00E+00	3.91E-03
484	UCART11	440611.7	3762143.41	440611.67, 3762143.41	15.65591	13.69449	0.49229		5.79E-05	3.29E-06	3.05E-03	0.00E+00	3.11E-03
485	UCART12	440406.6	3762008.86	440406.61, 3762008.86	19.9375	18.18806	0.48463		7.38E-05	4.37E-06	3.00E-03	0.00E+00	3.08E-03
486	UCART12	440456.6	3762008.86	440456.61, 3762008.86	17.65219	16.27319	0.4491		6.53E-05	3.91E-06	2.78E-03	0.00E+00	2.85E-03
487	UCART12	440506.6	3762008.86	440506.61, 3762008.86	16.44464	15.03885	0.41006		6.09E-05	3.61E-06	2.54E-03	0.00E+00	2.61E-03
488	UCART12	440556.6	3762008.86	440556.61, 3762008.86	14.0021	12.77101	0.36613		5.18E-05	3.07E-06	2.27E-03	0.00E+00	2.33E-03
489	UCART12	440606.6	3762008.86	440606.61, 3762008.86	11.29889	10.33648	0.34495		4.18E-05	2.48E-06	2.14E-03	0.00E+00	2.18E-03
490	UCART12	440656.6	3762008.86	440656.61, 3762008.86	9.41808	8.65748	0.30554		3.49E-05	2.08E-06	1.89E-03	0.00E+00	1.93E-03
491	UCART12	440706.6	3762008.86	440706.61, 3762008.86	8.18989	7.54331	0.25904		3.03E-05	1.81E-06	1.61E-03	0.00E+00	1.64E-03
492	UCART12	440756.6	3762008.86	440756.61, 3762008.86	8.01818	7.32793	0.21301		2.97E-05	1.76E-06	1.32E-03	0.00E+00	1.35E-03
493	UCART12	440806.6	3762008.86	440806.61, 3762008.86	7.75696	7.00883	0.20175		2.87E-05	1.68E-06	1.25E-03	0.00E+00	1.28E-03
494	UCART12	440856.6	3762008.86	440856.61, 3762008.86	7.90408	7.14927	0.19032		2.92E-05	1.72E-06	1.18E-03	0.00E+00	1.21E-03
495	UCART12	440906.6	3762008.86	440906.61, 3762008.86	7.93084	7.18869	0.17732		2.93E-05	1.73E-06	1.10E-03	0.00E+00	1.13E-03
496	UCART12	440956.6	3762008.86	440956.61, 3762008.86	7.73951	7.05851	0.16393		2.86E-05	1.69E-06	1.02E-03	0.00E+00	1.05E-03
497	UCART12	441006.6	3762008.86	441006.61, 3762008.86	7.42552	6.82049	0.15065		2.75E-05	1.64E-06	9.34E-04	0.00E+00	9.63E-04
498	UCART12	441056.6	3762008.86	441056.61, 3762008.86	7.01478	6.49208	0.13795		2.60E-05	1.56E-06	8.55E-04	0.00E+00	8.83E-04
499	UCART12	441106.6	3762008.86	441106.61, 3762008.86	6.58022	6.13843	0.12779		2.43E-05	1.47E-06	7.92E-04	0.00E+00	8.18E-04
500	UCART12	441156.6	3762008.86	441156.61, 3762008.86	6.13405	5.76792	0.11882		2.27E-05	1.38E-06	7.37E-04	0.00E+00	7.61E-04
501	UCART12	440406.6	3762058.86	440406.61, 3762058.86	23.69703	21.34658	0.59024		8.77E-05	5.12E-06	3.66E-03	0.00E+00	3.75E-03
502	UCART12	440456.6	3762058.86	440456.61, 3762058.86	21.33827	19.46471	0.56805		7.90E-05	4.67E-06	3.52E-03	0.00E+00	3.61E-03
503	UCART12	440506.6	3762058.86	440506.61, 3762058.86	18.49319	16.74326	0.49193		6.84E-05	4.02E-06	3.05E-03	0.00E+00	3.12E-03
504	UCART12	440556.6	3762058.86	440556.61, 3762058.86	14.81428	13.39415	0.46868		5.48E-05	3.22E-06	2.91E-03	0.00E+00	2.96E-03
505	UCART12	440606.6	3762058.86	440606.61, 3762058.86	12.14396	11.00689	0.41219		4.49E-05	2.64E-06	2.56E-03	0.00E+00	2.60E-03
506	UCART12	440656.6	3762058.86	440656.61, 3762058.86	10.28341	9.29791	0.34207		3.81E-05	2.23E-06	2.12E-03	0.00E+00	2.16E-03
507	UCART12	440706.6	3762058.86	440706.61, 3762058.86	9.91031	8.98974	0.27555		3.67E-05	2.16E-06	1.71E-03	0.00E+00	1.75E-03
508	UCART12	440756.6	3762058.86	440756.61, 3762058.86	9.88539	8.85332	0.25778		3.66E-05	2.13E-06	1.60E-03	0.00E+00	1.64E-03
509	UCART12	440806.6	3762058.86	440806.61, 3762058.86	9.8564	8.83666	0.23726		3.65E-05	2.12E-06	1.47E-03	0.00E+00	1.51E-03
510	UCART12	440856.6	3762058.86	440856.61, 3762058.86	9.64869	8.71207	0.21586		3.57E-05	2.09E-06	1.34E-03	0.00E+00	1.38E-03

PHASE 2 OPERATIONAL PM2.5 24-HOUR

Unmitigated Onsite Running	Onsite Idle	Generator
3.70E-06	2.40E-07	6.20E-03

Discrete Receptor ID		X	Y	X, Y	Concentration (AVERAGE CONC) [ug/m^3] at 1 g/s: Onsite Running	Onsite Idle	Generator	Offsite	Concentration (AVERAGE CONC) [ug/m^3]: Onsite Running	Onsite Idle	Generator	Offsite	Unmitigated Total
511	UCART12	440906.6	3762058.86	440906.61, 3762058.86	9.24763	8.41963	0.19493		3.42E-05	2.02E-06	1.21E-03	0.00E+00	1.24E-03
512	UCART12	440956.6	3762058.86	440956.61, 3762058.86	8.69939	7.99077	0.17694		3.22E-05	1.92E-06	1.10E-03	0.00E+00	1.13E-03
513	UCART12	441006.6	3762058.86	441006.61, 3762058.86	8.08799	7.49676	0.16684		2.99E-05	1.80E-06	1.03E-03	0.00E+00	1.07E-03
514	UCART12	441056.6	3762058.86	441056.61, 3762058.86	7.46456	6.98127	0.1562		2.76E-05	1.68E-06	9.69E-04	0.00E+00	9.98E-04
515	UCART12	441106.6	3762058.86	441106.61, 3762058.86	6.85674	6.46825	0.14579		2.54E-05	1.55E-06	9.04E-04	0.00E+00	9.31E-04
516	UCART12	441156.6	3762058.86	441156.61, 3762058.86	6.28397	5.97599	0.13583		2.33E-05	1.43E-06	8.42E-04	0.00E+00	8.67E-04
517	ONSITE	440191.4	3762138.44	440191.38, 3762138.44	35.16946	32.69978	1.98512		1.30E-04	7.85E-06	1.23E-02	0.00E+00	1.24E-02
518	ONSITE	440241.4	3762138.44	440241.38, 3762138.44	38.0262	34.93911	1.26212		1.41E-04	8.39E-06	7.83E-03	0.00E+00	7.97E-03
519	ONSITE	440291.4	3762138.44	440291.38, 3762138.44	40.61384	36.58284	1.30155		1.50E-04	8.78E-06	8.07E-03	0.00E+00	8.23E-03
520	ONSITE	440341.4	3762138.44	440341.38, 3762138.44	38.93699	34.96178	1.23411		1.44E-04	8.39E-06	7.65E-03	0.00E+00	7.80E-03
521	ONSITE	440191.4	3762188.44	440191.38, 3762188.44	49.31128	43.61597	3.13372		1.82E-04	1.05E-05	1.94E-02	0.00E+00	1.96E-02
522	ONSITE	440241.4	3762188.44	440241.38, 3762188.44	54.02668	47.46843	2.25822		2.00E-04	1.14E-05	1.40E-02	0.00E+00	1.42E-02
523	ONSITE	440291.4	3762188.44	440291.38, 3762188.44	57.96147	50.94921	1.97456		2.14E-04	1.22E-05	1.22E-02	0.00E+00	1.25E-02
524	ONSITE	440341.4	3762188.44	440341.38, 3762188.44	53.52754	47.02169	1.74126		1.98E-04	1.13E-05	1.08E-02	0.00E+00	1.10E-02
525	ONSITE	440191.4	3762238.44	440191.38, 3762238.44	76.79447	65.58904	5.03913		2.84E-04	1.57E-05	3.12E-02	0.00E+00	3.15E-02
526	ONSITE	440241.4	3762238.44	440241.38, 3762238.44	86.7754	72.31901	4.26607		3.21E-04	1.74E-05	2.65E-02	0.00E+00	2.68E-02
527	ONSITE	440291.4	3762238.44	440291.38, 3762238.44	91.14973	77.42658	3.46435		3.37E-04	1.86E-05	2.15E-02	0.00E+00	2.18E-02
528	ONSITE	440341.4	3762238.44	440341.38, 3762238.44	75.01427	65.04531	2.67051		2.78E-04	1.56E-05	1.66E-02	0.00E+00	1.69E-02

```
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/5/2023
** File: C:\Lakes\OntarioEuclid_P1Op_PM10_24HR\OntarioEuclid_P1Op_PM10_24HR.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid P1OP PM10 24HR
   MODELOPT DFAULT CONC
   AVERTIME 24 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_P1Op_PM10_24HR.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Building 1 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0439137
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439979.680, 3762795.008, 219.39, 3.11, 6.98
** 440019.164, 3762795.008, 219.45, 3.11, 6.98
** ------------------------------------------------------------------------
   LOCATION L0013407     VOLUME   439987.180 3762795.008 219.43
   LOCATION L0013408     VOLUME   440002.180 3762795.008 219.45
```

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   LOCATION L0013409     VOLUME   440017.180 3762795.008 219.47
** End of LINE VOLUME Source ID = SLINE26
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Building 2 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0485592
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439977.938, 3762735.201, 218.71, 3.11, 6.98
** 440018.584, 3762735.201, 218.82, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013410     VOLUME   439985.438 3762735.201 218.79
   LOCATION L0013411     VOLUME   440000.438 3762735.201 218.84
   LOCATION L0013412     VOLUME   440015.438 3762735.201 218.88
** End of LINE VOLUME Source ID = SLINE27
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Building 3 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0385124
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439995.358, 3762633.007, 217.26, 3.11, 6.98
** 439995.938, 3762581.909, 216.46, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013413     VOLUME   439995.443 3762625.507 217.14
   LOCATION L0013414     VOLUME   439995.613 3762610.508 216.95
   LOCATION L0013415     VOLUME   439995.784 3762595.509 216.73
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Building 4 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0549656
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440075.488, 3762801.976, 219.54, 3.11, 6.98
** 440117.294, 3762801.976, 219.49, 3.11, 6.98
```

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** ----------------------------------------------------------------------
   LOCATION L0013416     VOLUME   440082.988 3762801.976 219.48
   LOCATION L0013417     VOLUME   440097.988 3762801.976 219.47
   LOCATION L0013418     VOLUME   440112.988 3762801.976 219.49
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Building 5 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.092095
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440078.391, 3762717.201, 218.56, 3.11, 6.98
** 440078.391, 3762659.136, 217.97, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013419     VOLUME   440078.391 3762709.701 218.57
   LOCATION L0013420     VOLUME   440078.391 3762694.701 218.38
   LOCATION L0013421     VOLUME   440078.391 3762679.701 218.18
   LOCATION L0013422     VOLUME   440078.391 3762664.701 218.00
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC Building 6 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1609194
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440237.489, 3762788.041, 219.93, 3.11, 6.98
** 440238.651, 3762709.653, 219.12, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013423     VOLUME   440237.600 3762780.541 219.88
   LOCATION L0013424     VOLUME   440237.823 3762765.543 219.78
   LOCATION L0013425     VOLUME   440238.045 3762750.545 219.62
   LOCATION L0013426     VOLUME   440238.267 3762735.546 219.44
   LOCATION L0013427     VOLUME   440238.489 3762720.548 219.27
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Building 7 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
```

```
** Emission Rate = 0.0937694
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440296.716, 3762795.008, 219.86, 3.11, 6.98
** 440296.716, 3762742.169, 218.72, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013428     VOLUME   440296.716 3762787.508 219.78
   LOCATION L0013429     VOLUME   440296.716 3762772.508 219.34
   LOCATION L0013430     VOLUME   440296.716 3762757.508 218.93
   LOCATION L0013431     VOLUME   440296.716 3762742.508 218.70
** End of LINE VOLUME Source ID = SLINE32
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Building 8 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0971183
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440246.780, 3762543.586, 214.83, 3.11, 6.98
** 440301.942, 3762543.586, 214.44, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013432     VOLUME   440254.280 3762543.586 214.62
   LOCATION L0013433     VOLUME   440269.280 3762543.586 214.34
   LOCATION L0013434     VOLUME   440284.280 3762543.586 214.39
   LOCATION L0013435     VOLUME   440299.280 3762543.586 214.40
** End of LINE VOLUME Source ID = SLINE33
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Building 9  Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1088395
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440053.423, 3762439.650, 215.38, 3.11, 6.98
** 440121.359, 3762440.230, 215.09, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013436     VOLUME   440060.923 3762439.714 215.39
   LOCATION L0013437     VOLUME   440075.922 3762439.842 215.27
   LOCATION L0013438     VOLUME   440090.921 3762439.970 215.16
   LOCATION L0013439     VOLUME   440105.921 3762440.098 215.11
   LOCATION L0013440     VOLUME   440120.920 3762440.227 215.12
** End of LINE VOLUME Source ID = SLINE34
```

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** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Building 10 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0837997
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440051.681, 3762374.617, 214.11, 3.11, 6.98
** 440121.940, 3762375.778, 214.33, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013441     VOLUME   440059.180 3762374.741 214.42
   LOCATION L0013442     VOLUME   440074.178 3762374.989 214.38
   LOCATION L0013443     VOLUME   440089.176 3762375.237 214.35
   LOCATION L0013444     VOLUME   440104.174 3762375.484 214.32
   LOCATION L0013445     VOLUME   440119.172 3762375.732 214.26
** End of LINE VOLUME Source ID = SLINE35
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC Building 11 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0284657
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 2
** 439969.228, 3762487.263, 214.84, 0.52, 6.98
** 439995.938, 3762463.456, 214.83, 0.52, 6.98
** ------------------------------------------------------------------
   LOCATION L0013446     VOLUME   439974.827 3762482.273 214.89
   LOCATION L0013447     VOLUME   439986.025 3762472.292 214.87
** End of LINE VOLUME Source ID = SLINE36
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Building 12 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0251323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439972.712, 3762357.197, 213.29, 3.11, 6.98
** 439994.196, 3762332.229, 213.46, 3.11, 6.98
** ------------------------------------------------------------------
```

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   LOCATION L0013448     VOLUME   439977.604 3762351.512 213.39
   LOCATION L0013449     VOLUME   439987.388 3762340.142 213.51
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Building 13 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1239096
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440018.003, 3762237.583, 212.71, 3.11, 6.98
** 440088.262, 3762238.164, 212.91, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013450     VOLUME   440025.503 3762237.645 212.81
   LOCATION L0013451     VOLUME   440040.502 3762237.769 212.89
   LOCATION L0013452     VOLUME   440055.502 3762237.893 212.91
   LOCATION L0013453     VOLUME   440070.501 3762238.017 212.92
   LOCATION L0013454     VOLUME   440085.501 3762238.141 212.91
** End of LINE VOLUME Source ID = SLINE38
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Onsite Building 1
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.071417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.723, 3762869.914, 220.47, 3.11, 5.58
** 440153.303, 3762781.342, 219.32, 3.11, 5.58
** 440038.286, 3762782.601, 219.42, 3.11, 5.58
** 440037.446, 3762773.786, 219.18, 3.11, 5.58
** 439977.839, 3762774.206, 219.07, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013092     VOLUME   440153.695 3762863.914 220.47
   LOCATION L0013093     VOLUME   440153.638 3762851.914 220.15
   LOCATION L0013094     VOLUME   440153.581 3762839.914 219.95
   LOCATION L0013095     VOLUME   440153.524 3762827.914 219.76
   LOCATION L0013096     VOLUME   440153.467 3762815.915 219.59
   LOCATION L0013097     VOLUME   440153.410 3762803.915 219.46
   LOCATION L0013098     VOLUME   440153.353 3762791.915 219.33
   LOCATION L0013099     VOLUME   440151.876 3762781.358 219.24
   LOCATION L0013100     VOLUME   440139.877 3762781.489 219.24
   LOCATION L0013101     VOLUME   440127.878 3762781.620 219.28
   LOCATION L0013102     VOLUME   440115.878 3762781.752 219.32
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   LOCATION L0013103     VOLUME   440103.879 3762781.883 219.31
   LOCATION L0013104     VOLUME   440091.880 3762782.015 219.31
   LOCATION L0013105     VOLUME   440079.881 3762782.146 219.34
   LOCATION L0013106     VOLUME   440067.881 3762782.277 219.36
   LOCATION L0013107     VOLUME   440055.882 3762782.409 219.37
   LOCATION L0013108     VOLUME   440043.883 3762782.540 219.38
   LOCATION L0013109     VOLUME   440037.679 3762776.227 219.32
   LOCATION L0013110     VOLUME   440027.899 3762773.853 219.30
   LOCATION L0013111     VOLUME   440015.899 3762773.938 219.29
   LOCATION L0013112     VOLUME   440003.899 3762774.022 219.27
   LOCATION L0013113     VOLUME   439991.900 3762774.107 219.24
   LOCATION L0013114     VOLUME   439979.900 3762774.191 219.21
** End of LINE VOLUME Source ID = SLINE6
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Onsite Building 2
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.077690289
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.303, 3762869.494, 220.45, 3.11, 5.58
** 440153.723, 3762762.872, 219.11, 3.11, 5.58
** 440038.706, 3762761.613, 219.20, 3.11, 5.58
** 440037.866, 3762747.341, 218.83, 3.11, 5.58
** 439977.839, 3762746.501, 218.71, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013115     VOLUME   440153.327 3762863.494 220.46
   LOCATION L0013116     VOLUME   440153.374 3762851.494 220.14
   LOCATION L0013117     VOLUME   440153.421 3762839.494 219.95
   LOCATION L0013118     VOLUME   440153.469 3762827.495 219.75
   LOCATION L0013119     VOLUME   440153.516 3762815.495 219.59
   LOCATION L0013120     VOLUME   440153.563 3762803.495 219.46
   LOCATION L0013121     VOLUME   440153.610 3762791.495 219.33
   LOCATION L0013122     VOLUME   440153.658 3762779.495 219.23
   LOCATION L0013123     VOLUME   440153.705 3762767.495 219.14
   LOCATION L0013124     VOLUME   440146.346 3762762.791 219.06
   LOCATION L0013125     VOLUME   440134.347 3762762.660 219.07
   LOCATION L0013126     VOLUME   440122.348 3762762.529 219.11
   LOCATION L0013127     VOLUME   440110.349 3762762.397 219.13
   LOCATION L0013128     VOLUME   440098.349 3762762.266 219.14
   LOCATION L0013129     VOLUME   440086.350 3762762.134 219.16
   LOCATION L0013130     VOLUME   440074.351 3762762.003 219.18
   LOCATION L0013131     VOLUME   440062.351 3762761.872 219.19
   LOCATION L0013132     VOLUME   440050.352 3762761.740 219.20
   LOCATION L0013133     VOLUME   440038.685 3762761.261 219.20
   LOCATION L0013134     VOLUME   440037.980 3762749.281 219.06
   LOCATION L0013135     VOLUME   440027.811 3762747.200 219.03
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   LOCATION L0013136     VOLUME   440015.812 3762747.032 219.02
   LOCATION L0013137     VOLUME   440003.814 3762746.864 218.98
   LOCATION L0013138     VOLUME   439991.815 3762746.697 218.95
   LOCATION L0013139     VOLUME   439979.816 3762746.529 218.91
** End of LINE VOLUME Source ID = SLINE7
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Onsite Building 3
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.104488189
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440152.464, 3762870.334, 220.46, 3.11, 5.58
** 440153.723, 3762630.644, 217.47, 3.11, 5.58
** 440047.521, 3762597.062, 217.53, 3.11, 5.58
** 440044.163, 3762611.754, 217.81, 3.11, 5.58
** 440012.260, 3762611.754, 217.20, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013140     VOLUME   440152.495 3762864.334 220.48
   LOCATION L0013141     VOLUME   440152.558 3762852.334 220.16
   LOCATION L0013142     VOLUME   440152.621 3762840.334 219.96
   LOCATION L0013143     VOLUME   440152.684 3762828.334 219.76
   LOCATION L0013144     VOLUME   440152.747 3762816.334 219.60
   LOCATION L0013145     VOLUME   440152.811 3762804.335 219.47
   LOCATION L0013146     VOLUME   440152.874 3762792.335 219.33
   LOCATION L0013147     VOLUME   440152.937 3762780.335 219.24
   LOCATION L0013148     VOLUME   440153.000 3762768.335 219.14
   LOCATION L0013149     VOLUME   440153.063 3762756.335 219.06
   LOCATION L0013150     VOLUME   440153.126 3762744.335 219.01
   LOCATION L0013151     VOLUME   440153.189 3762732.336 218.96
   LOCATION L0013152     VOLUME   440153.252 3762720.336 218.83
   LOCATION L0013153     VOLUME   440153.315 3762708.336 218.69
   LOCATION L0013154     VOLUME   440153.378 3762696.336 218.52
   LOCATION L0013155     VOLUME   440153.441 3762684.336 218.27
   LOCATION L0013156     VOLUME   440153.504 3762672.336 218.02
   LOCATION L0013157     VOLUME   440153.567 3762660.337 217.82
   LOCATION L0013158     VOLUME   440153.630 3762648.337 217.64
   LOCATION L0013159     VOLUME   440153.693 3762636.337 217.46
   LOCATION L0013160     VOLUME   440147.710 3762628.742 217.28
   LOCATION L0013161     VOLUME   440136.268 3762625.125 217.18
   LOCATION L0013162     VOLUME   440124.826 3762621.507 217.16
   LOCATION L0013163     VOLUME   440113.385 3762617.889 217.17
   LOCATION L0013164     VOLUME   440101.943 3762614.271 217.26
   LOCATION L0013165     VOLUME   440090.501 3762610.653 217.36
   LOCATION L0013166     VOLUME   440079.060 3762607.035 217.41
   LOCATION L0013167     VOLUME   440067.618 3762603.417 217.47
   LOCATION L0013168     VOLUME   440056.177 3762599.799 217.54
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   LOCATION L0013169     VOLUME   440046.870 3762599.911 217.62
   LOCATION L0013170     VOLUME   440044.196 3762611.609 217.83
   LOCATION L0013171     VOLUME   440032.312 3762611.754 217.71
   LOCATION L0013172     VOLUME   440020.312 3762611.754 217.40
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Onite Building 4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.042309711
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440152.464, 3762869.914, 220.45, 3.11, 5.58
** 440152.884, 3762782.601, 219.33, 3.11, 5.58
** 440079.004, 3762783.021, 219.38, 3.11, 5.58
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   LOCATION L0013173     VOLUME   440152.493 3762863.914 220.47
   LOCATION L0013174     VOLUME   440152.550 3762851.914 220.15
   LOCATION L0013175     VOLUME   440152.608 3762839.914 219.95
   LOCATION L0013176     VOLUME   440152.666 3762827.914 219.76
   LOCATION L0013177     VOLUME   440152.723 3762815.915 219.60
   LOCATION L0013178     VOLUME   440152.781 3762803.915 219.46
   LOCATION L0013179     VOLUME   440152.839 3762791.915 219.33
   LOCATION L0013180     VOLUME   440150.197 3762782.617 219.25
   LOCATION L0013181     VOLUME   440138.197 3762782.685 219.26
   LOCATION L0013182     VOLUME   440126.198 3762782.753 219.30
   LOCATION L0013183     VOLUME   440114.198 3762782.821 219.33
   LOCATION L0013184     VOLUME   440102.198 3762782.889 219.32
   LOCATION L0013185     VOLUME   440090.198 3762782.958 219.32
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Onsite Building 5
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.153937008
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 440152.884, 3762870.754, 220.48, 3.11, 5.58
** 440155.402, 3762635.681, 217.50, 3.11, 5.58
** 440062.633, 3762599.581, 217.46, 3.11, 5.58
** 440059.694, 3762709.981, 218.54, 3.11, 5.58
** 440058.855, 3762763.712, 219.18, 3.11, 5.58
** 440146.587, 3762762.452, 219.03, 3.11, 5.58
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   LOCATION L0013186     VOLUME   440152.948 3762864.754 220.49
   LOCATION L0013187     VOLUME   440153.076 3762852.755 220.16
   LOCATION L0013188     VOLUME   440153.205 3762840.755 219.97
   LOCATION L0013189     VOLUME   440153.334 3762828.756 219.77
   LOCATION L0013190     VOLUME   440153.462 3762816.757 219.60
   LOCATION L0013191     VOLUME   440153.591 3762804.757 219.47
   LOCATION L0013192     VOLUME   440153.719 3762792.758 219.34
   LOCATION L0013193     VOLUME   440153.848 3762780.759 219.24
   LOCATION L0013194     VOLUME   440153.976 3762768.759 219.15
   LOCATION L0013195     VOLUME   440154.105 3762756.760 219.07
   LOCATION L0013196     VOLUME   440154.233 3762744.761 219.03
   LOCATION L0013197     VOLUME   440154.362 3762732.761 218.98
   LOCATION L0013198     VOLUME   440154.491 3762720.762 218.86
   LOCATION L0013199     VOLUME   440154.619 3762708.763 218.72
   LOCATION L0013200     VOLUME   440154.748 3762696.763 218.56
   LOCATION L0013201     VOLUME   440154.876 3762684.764 218.31
   LOCATION L0013202     VOLUME   440155.005 3762672.765 218.05
   LOCATION L0013203     VOLUME   440155.133 3762660.766 217.85
   LOCATION L0013204     VOLUME   440155.262 3762648.766 217.66
   LOCATION L0013205     VOLUME   440155.391 3762636.767 217.48
   LOCATION L0013206     VOLUME   440145.231 3762631.723 217.30
   LOCATION L0013207     VOLUME   440134.048 3762627.371 217.22
   LOCATION L0013208     VOLUME   440122.865 3762623.020 217.19
   LOCATION L0013209     VOLUME   440111.682 3762618.668 217.20
   LOCATION L0013210     VOLUME   440100.498 3762614.316 217.28
   LOCATION L0013211     VOLUME   440089.315 3762609.964 217.36
   LOCATION L0013212     VOLUME   440078.132 3762605.612 217.40
   LOCATION L0013213     VOLUME   440066.949 3762601.261 217.45
   LOCATION L0013214     VOLUME   440062.437 3762606.946 217.57
   LOCATION L0013215     VOLUME   440062.117 3762618.942 217.70
   LOCATION L0013216     VOLUME   440061.798 3762630.938 217.82
   LOCATION L0013217     VOLUME   440061.479 3762642.934 217.92
   LOCATION L0013218     VOLUME   440061.159 3762654.929 217.98
   LOCATION L0013219     VOLUME   440060.840 3762666.925 218.05
   LOCATION L0013220     VOLUME   440060.521 3762678.921 218.20
   LOCATION L0013221     VOLUME   440060.202 3762690.917 218.37
   LOCATION L0013222     VOLUME   440059.882 3762702.912 218.53
   LOCATION L0013223     VOLUME   440059.617 3762714.909 218.67
   LOCATION L0013224     VOLUME   440059.430 3762726.908 218.81
   LOCATION L0013225     VOLUME   440059.242 3762738.906 218.95
   LOCATION L0013226     VOLUME   440059.055 3762750.905 219.08
   LOCATION L0013227     VOLUME   440058.867 3762762.903 219.20
   LOCATION L0013228     VOLUME   440070.045 3762763.551 219.20
   LOCATION L0013229     VOLUME   440082.044 3762763.379 219.17
   LOCATION L0013230     VOLUME   440094.043 3762763.207 219.15
   LOCATION L0013231     VOLUME   440106.041 3762763.034 219.14
   LOCATION L0013232     VOLUME   440118.040 3762762.862 219.13
   LOCATION L0013233     VOLUME   440130.039 3762762.690 219.09
   LOCATION L0013234     VOLUME   440142.038 3762762.518 219.05
** End of LINE VOLUME Source ID = SLINE10
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC Onsite Building 6
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.064015748
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 3
** 440369.066, 3762686.893, 218.77, 0.52, 5.58
** 440258.246, 3762657.929, 218.44, 0.52, 5.58
** 440253.629, 3762787.219, 219.89, 0.52, 5.58
** ------------------------------------------------------------------
   LOCATION L0013235     VOLUME   440363.261 3762685.376 218.72
   LOCATION L0013236     VOLUME   440351.651 3762682.342 218.66
   LOCATION L0013237     VOLUME   440340.041 3762679.307 218.47
   LOCATION L0013238     VOLUME   440328.431 3762676.273 218.22
   LOCATION L0013239     VOLUME   440316.821 3762673.238 218.02
   LOCATION L0013240     VOLUME   440305.211 3762670.204 217.91
   LOCATION L0013241     VOLUME   440293.601 3762667.170 217.90
   LOCATION L0013242     VOLUME   440281.991 3762664.135 218.20
   LOCATION L0013243     VOLUME   440270.381 3762661.101 218.46
   LOCATION L0013244     VOLUME   440258.771 3762658.066 218.42
   LOCATION L0013245     VOLUME   440257.837 3762669.380 218.64
   LOCATION L0013246     VOLUME   440257.409 3762681.372 218.78
   LOCATION L0013247     VOLUME   440256.981 3762693.364 218.92
   LOCATION L0013248     VOLUME   440256.552 3762705.357 219.04
   LOCATION L0013249     VOLUME   440256.124 3762717.349 219.15
   LOCATION L0013250     VOLUME   440255.696 3762729.341 219.25
   LOCATION L0013251     VOLUME   440255.268 3762741.334 219.43
   LOCATION L0013252     VOLUME   440254.839 3762753.326 219.61
   LOCATION L0013253     VOLUME   440254.411 3762765.318 219.74
   LOCATION L0013254     VOLUME   440253.983 3762777.311 219.81
** End of LINE VOLUME Source ID = SLINE11
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Onsite Building 7
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057874016
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440368.646, 3762688.573, 218.78, 3.11, 5.58
** 440279.655, 3762665.065, 218.35, 3.11, 5.58
** 440278.395, 3762793.515, 219.79, 3.11, 5.58
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   LOCATION L0013255     VOLUME   440362.845 3762687.040 218.73
   LOCATION L0013256     VOLUME   440351.243 3762683.975 218.67
   LOCATION L0013257     VOLUME   440339.641 3762680.911 218.48
   LOCATION L0013258     VOLUME   440328.039 3762677.846 218.23
   LOCATION L0013259     VOLUME   440316.437 3762674.781 218.04
   LOCATION L0013260     VOLUME   440304.835 3762671.717 217.93
   LOCATION L0013261     VOLUME   440293.233 3762668.652 217.93
   LOCATION L0013262     VOLUME   440281.631 3762665.587 218.24
   LOCATION L0013263     VOLUME   440279.557 3762675.021 218.42
   LOCATION L0013264     VOLUME   440279.439 3762687.020 218.55
   LOCATION L0013265     VOLUME   440279.322 3762699.020 218.68
   LOCATION L0013266     VOLUME   440279.204 3762711.019 218.76
   LOCATION L0013267     VOLUME   440279.086 3762723.018 218.84
   LOCATION L0013268     VOLUME   440278.969 3762735.018 218.98
   LOCATION L0013269     VOLUME   440278.851 3762747.017 219.19
   LOCATION L0013270     VOLUME   440278.734 3762759.017 219.40
   LOCATION L0013271     VOLUME   440278.616 3762771.016 219.56
   LOCATION L0013272     VOLUME   440278.498 3762783.016 219.72
** End of LINE VOLUME Source ID = SLINE12
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
** DESCRSRC Onsite PA4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.124120735
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.284, 3762525.123, 215.59, 3.11, 5.58
** 439990.794, 3762536.975, 215.91, 3.11, 5.58
** 440357.234, 3762635.746, 218.25, 3.11, 5.58
** 440370.074, 3762637.721, 218.37, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013273     VOLUME   439917.218 3762526.007 215.59
   LOCATION L0013274     VOLUME   439929.087 3762527.777 215.53
   LOCATION L0013275     VOLUME   439940.956 3762529.546 215.51
   LOCATION L0013276     VOLUME   439952.825 3762531.315 215.54
   LOCATION L0013277     VOLUME   439964.694 3762533.084 215.59
   LOCATION L0013278     VOLUME   439976.563 3762534.854 215.69
   LOCATION L0013279     VOLUME   439988.432 3762536.623 215.81
   LOCATION L0013280     VOLUME   440000.074 3762539.476 216.04
   LOCATION L0013281     VOLUME   440011.661 3762542.599 216.25
   LOCATION L0013282     VOLUME   440023.247 3762545.723 216.58
   LOCATION L0013283     VOLUME   440034.834 3762548.846 216.94
   LOCATION L0013284     VOLUME   440046.420 3762551.969 217.02
   LOCATION L0013285     VOLUME   440058.007 3762555.092 216.99
   LOCATION L0013286     VOLUME   440069.593 3762558.215 216.92
   LOCATION L0013287     VOLUME   440081.180 3762561.338 216.81
   LOCATION L0013288     VOLUME   440092.766 3762564.461 216.69
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   LOCATION L0013289     VOLUME   440104.353 3762567.584 216.56
   LOCATION L0013290     VOLUME   440115.939 3762570.707 216.42
   LOCATION L0013291     VOLUME   440127.526 3762573.830 216.46
   LOCATION L0013292     VOLUME   440139.112 3762576.953 216.50
   LOCATION L0013293     VOLUME   440150.699 3762580.076 216.74
   LOCATION L0013294     VOLUME   440162.285 3762583.199 217.01
   LOCATION L0013295     VOLUME   440173.871 3762586.322 217.18
   LOCATION L0013296     VOLUME   440185.458 3762589.445 217.33
   LOCATION L0013297     VOLUME   440197.044 3762592.568 217.49
   LOCATION L0013298     VOLUME   440208.631 3762595.691 217.59
   LOCATION L0013299     VOLUME   440220.217 3762598.814 217.64
   LOCATION L0013300     VOLUME   440231.804 3762601.937 217.59
   LOCATION L0013301     VOLUME   440243.390 3762605.060 217.54
   LOCATION L0013302     VOLUME   440254.977 3762608.183 217.43
   LOCATION L0013303     VOLUME   440266.563 3762611.306 217.33
   LOCATION L0013304     VOLUME   440278.150 3762614.429 217.25
   LOCATION L0013305     VOLUME   440289.736 3762617.552 217.17
   LOCATION L0013306     VOLUME   440301.323 3762620.676 217.21
   LOCATION L0013307     VOLUME   440312.909 3762623.799 217.40
   LOCATION L0013308     VOLUME   440324.496 3762626.922 217.61
   LOCATION L0013309     VOLUME   440336.082 3762630.045 217.91
   LOCATION L0013310     VOLUME   440347.669 3762633.168 218.20
   LOCATION L0013311     VOLUME   440359.303 3762636.064 218.29
** End of LINE VOLUME Source ID = SLINE39
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Onsite Building 8
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.032493438
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440370.568, 3762567.100, 217.52, 3.11, 5.58
** 440275.748, 3762564.137, 215.57, 3.11, 5.58
** 440248.092, 3762555.742, 215.39, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013312     VOLUME   440364.571 3762566.913 217.25
   LOCATION L0013313     VOLUME   440352.577 3762566.538 216.81
   LOCATION L0013314     VOLUME   440340.582 3762566.163 216.37
   LOCATION L0013315     VOLUME   440328.588 3762565.788 215.92
   LOCATION L0013316     VOLUME   440316.594 3762565.414 215.63
   LOCATION L0013317     VOLUME   440304.600 3762565.039 215.60
   LOCATION L0013318     VOLUME   440292.606 3762564.664 215.58
   LOCATION L0013319     VOLUME   440280.612 3762564.289 215.60
   LOCATION L0013320     VOLUME   440268.922 3762562.065 215.51
   LOCATION L0013321     VOLUME   440257.439 3762558.579 215.52
** End of LINE VOLUME Source ID = SLINE13
** ----------------------------------------------------------------------
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Onsite Building 9
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057847769
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.778, 3762403.635, 214.16, 3.11, 5.58
** 440009.067, 3762407.585, 215.02, 3.11, 5.58
** 440010.055, 3762416.969, 215.13, 3.11, 5.58
** 440123.641, 3762419.932, 214.99, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013322     VOLUME   439917.773 3762403.878 214.06
   LOCATION L0013323     VOLUME   439929.763 3762404.365 213.82
   LOCATION L0013324     VOLUME   439941.753 3762404.852 213.63
   LOCATION L0013325     VOLUME   439953.743 3762405.339 213.47
   LOCATION L0013326     VOLUME   439965.733 3762405.826 213.51
   LOCATION L0013327     VOLUME   439977.723 3762406.313 213.84
   LOCATION L0013328     VOLUME   439989.714 3762406.800 214.20
   LOCATION L0013329     VOLUME   440001.704 3762407.286 214.68
   LOCATION L0013330     VOLUME   440009.552 3762412.191 215.01
   LOCATION L0013331     VOLUME   440017.248 3762417.156 215.19
   LOCATION L0013332     VOLUME   440029.244 3762417.469 215.29
   LOCATION L0013333     VOLUME   440041.240 3762417.782 215.34
   LOCATION L0013334     VOLUME   440053.236 3762418.095 215.22
   LOCATION L0013335     VOLUME   440065.232 3762418.408 215.11
   LOCATION L0013336     VOLUME   440077.227 3762418.721 215.03
   LOCATION L0013337     VOLUME   440089.223 3762419.034 214.95
   LOCATION L0013338     VOLUME   440101.219 3762419.347 214.97
   LOCATION L0013339     VOLUME   440113.215 3762419.660 214.99
** End of LINE VOLUME Source ID = SLINE14
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC Onsite Building 10
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057454068
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439910.790, 3762403.635, 214.16, 3.11, 5.58
** 440002.647, 3762408.573, 214.95, 3.11, 5.58
** 440012.524, 3762396.227, 214.97, 3.11, 5.58
** 440123.641, 3762393.758, 214.57, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013340     VOLUME   439916.781 3762403.957 214.08
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   LOCATION L0013341     VOLUME   439928.764 3762404.601 213.85
   LOCATION L0013342     VOLUME   439940.747 3762405.245 213.65
   LOCATION L0013343     VOLUME   439952.730 3762405.889 213.49
   LOCATION L0013344     VOLUME   439964.712 3762406.534 213.50
   LOCATION L0013345     VOLUME   439976.695 3762407.178 213.83
   LOCATION L0013346     VOLUME   439988.678 3762407.822 214.18
   LOCATION L0013347     VOLUME   440000.660 3762408.466 214.65
   LOCATION L0013348     VOLUME   440008.900 3762400.756 214.91
   LOCATION L0013349     VOLUME   440018.722 3762396.089 215.05
   LOCATION L0013350     VOLUME   440030.719 3762395.823 215.09
   LOCATION L0013351     VOLUME   440042.716 3762395.556 215.05
   LOCATION L0013352     VOLUME   440054.713 3762395.289 214.89
   LOCATION L0013353     VOLUME   440066.710 3762395.023 214.76
   LOCATION L0013354     VOLUME   440078.707 3762394.756 214.71
   LOCATION L0013355     VOLUME   440090.704 3762394.490 214.67
   LOCATION L0013356     VOLUME   440102.701 3762394.223 214.68
   LOCATION L0013357     VOLUME   440114.698 3762393.956 214.69
** End of LINE VOLUME Source ID = SLINE15
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Onsite Building 11
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.059317585
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.308, 3762405.338, 214.18, 3.11, 5.58
** 440007.437, 3762407.437, 215.01, 3.11, 5.58
** 440007.017, 3762503.146, 215.85, 3.11, 5.58
** 439978.892, 3762483.837, 214.97, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013358     VOLUME   439917.306 3762405.469 214.09
   LOCATION L0013359     VOLUME   439929.304 3762405.731 213.85
   LOCATION L0013360     VOLUME   439941.301 3762405.993 213.66
   LOCATION L0013361     VOLUME   439953.298 3762406.255 213.49
   LOCATION L0013362     VOLUME   439965.295 3762406.517 213.51
   LOCATION L0013363     VOLUME   439977.292 3762406.779 213.83
   LOCATION L0013364     VOLUME   439989.289 3762407.041 214.19
   LOCATION L0013365     VOLUME   440001.286 3762407.303 214.66
   LOCATION L0013366     VOLUME   440007.411 3762413.286 214.94
   LOCATION L0013367     VOLUME   440007.359 3762425.285 215.02
   LOCATION L0013368     VOLUME   440007.306 3762437.285 215.03
   LOCATION L0013369     VOLUME   440007.253 3762449.285 215.03
   LOCATION L0013370     VOLUME   440007.201 3762461.285 215.08
   LOCATION L0013371     VOLUME   440007.148 3762473.285 215.17
   LOCATION L0013372     VOLUME   440007.095 3762485.285 215.26
   LOCATION L0013373     VOLUME   440007.043 3762497.285 215.53
   LOCATION L0013374     VOLUME   440001.957 3762499.672 215.49
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   LOCATION L0013375     VOLUME   439992.064 3762492.880 215.19
   LOCATION L0013376     VOLUME   439982.171 3762486.088 214.99
** End of LINE VOLUME Source ID = SLINE16
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Onsite Building 12
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.051417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.728, 3762405.338, 214.18, 3.11, 5.58
** 440004.918, 3762406.598, 214.98, 3.11, 5.58
** 440007.437, 3762332.297, 213.67, 3.11, 5.58
** 439979.732, 3762326.420, 213.41, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013377     VOLUME   439917.727 3762405.420 214.08
   LOCATION L0013378     VOLUME   439929.726 3762405.582 213.84
   LOCATION L0013379     VOLUME   439941.725 3762405.744 213.65
   LOCATION L0013380     VOLUME   439953.724 3762405.906 213.48
   LOCATION L0013381     VOLUME   439965.723 3762406.068 213.51
   LOCATION L0013382     VOLUME   439977.722 3762406.230 213.83
   LOCATION L0013383     VOLUME   439989.721 3762406.392 214.19
   LOCATION L0013384     VOLUME   440001.719 3762406.555 214.67
   LOCATION L0013385     VOLUME   440005.216 3762397.802 214.73
   LOCATION L0013386     VOLUME   440005.623 3762385.809 214.57
   LOCATION L0013387     VOLUME   440006.029 3762373.816 214.34
   LOCATION L0013388     VOLUME   440006.436 3762361.822 214.10
   LOCATION L0013389     VOLUME   440006.842 3762349.829 213.93
   LOCATION L0013390     VOLUME   440007.249 3762337.836 213.75
   LOCATION L0013391     VOLUME   440001.119 3762330.957 213.59
   LOCATION L0013392     VOLUME   439989.381 3762328.467 213.46
** End of LINE VOLUME Source ID = SLINE17
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Onsite Building 13
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.045616798
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439912.567, 3762260.096, 212.15, 3.11, 5.58
** 440086.355, 3762258.417, 213.09, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013393     VOLUME   439918.567 3762260.038 212.19
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   LOCATION L0013394     VOLUME   439930.566 3762259.922 212.36
   LOCATION L0013395     VOLUME   439942.566 3762259.806 212.39
   LOCATION L0013396     VOLUME   439954.565 3762259.690 212.35
   LOCATION L0013397     VOLUME   439966.565 3762259.574 212.40
   LOCATION L0013398     VOLUME   439978.564 3762259.458 212.53
   LOCATION L0013399     VOLUME   439990.564 3762259.342 212.64
   LOCATION L0013400     VOLUME   440002.563 3762259.226 212.73
   LOCATION L0013401     VOLUME   440014.562 3762259.110 212.82
   LOCATION L0013402     VOLUME   440026.562 3762258.994 212.90
   LOCATION L0013403     VOLUME   440038.561 3762258.878 212.97
   LOCATION L0013404     VOLUME   440050.561 3762258.762 213.01
   LOCATION L0013405     VOLUME   440062.560 3762258.647 213.05
   LOCATION L0013406     VOLUME   440074.560 3762258.531 213.05
** End of LINE VOLUME Source ID = SLINE18
   LOCATION PAREA1       AREAPOLY   439975.943  3762818.332      219.590
** DESCRSRC Generator PA 1
   LOCATION PAREA2       AREAPOLY   439957.487  3762492.276      214.950
** DESCRSRC Generator PA 2
   LOCATION PAREA3       AREAPOLY   439958.855  3762265.335      212.460
** DESCRSRC Generator PA 3A
** Source Parameters **
** LINE VOLUME Source ID = SLINE26
   SRCPARAM L0013407     0.0146379      3.11      6.98      2.89
   SRCPARAM L0013408     0.0146379      3.11      6.98      2.89
   SRCPARAM L0013409     0.0146379      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0013410     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013411     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013412     0.0161864      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0013413     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013414     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013415     0.0128374667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0013416     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013417     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013418     0.0183218667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
   SRCPARAM L0013419     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013420     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013421     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013422     0.02302375      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0013423     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013424     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013425     0.03218388      3.11      6.98      2.89
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   SRCPARAM L0013426     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013427     0.03218388      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0013428     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013429     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013430     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013431     0.02344235      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0013432     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013433     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013434     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013435     0.024279575      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0013436     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013437     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013438     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013439     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013440     0.0217679      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0013441     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013442     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013443     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013444     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013445     0.01675994      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0013446     0.01423285      0.52      6.98      0.48
   SRCPARAM L0013447     0.01423285      0.52      6.98      0.48
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0013448     0.01256615      3.11      6.98      2.89
   SRCPARAM L0013449     0.01256615      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0013450     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013451     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013452     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013453     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013454     0.02478192      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0013092     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013093     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013094     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013095     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013096     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013097     0.003105101      3.11      5.58      2.89
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   SRCPARAM L0013098     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013099     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013100     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013101     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013102     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013103     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013104     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013105     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013106     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013107     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013108     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013109     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013110     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013111     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013112     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013113     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013114     0.003105101      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0013115     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013116     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013117     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013118     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013119     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013120     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013121     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013122     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013123     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013124     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013125     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013126     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013127     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013128     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013129     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013130     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013131     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013132     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013133     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013134     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013135     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013136     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013137     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013138     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013139     0.0031076116      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0013140     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013141     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013142     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013143     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013144     0.0031663088      3.11      5.58      2.89
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   SRCPARAM L0013145     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013146     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013147     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013148     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013149     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013150     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013151     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013152     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013153     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013154     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013155     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013156     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013157     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013158     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013159     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013160     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013161     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013162     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013163     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013164     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013165     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013166     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013167     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013168     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013169     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013170     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013171     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013172     0.0031663088      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0013173     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013174     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013175     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013176     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013177     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013178     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013179     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013180     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013181     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013182     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013183     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013184     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013185     0.0032545932      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0013186     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013187     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013188     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013189     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013190     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013191     0.0031415716      3.11      5.58      2.89
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   SRCPARAM L0013192     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013193     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013194     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013195     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013196     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013197     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013198     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013199     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013200     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013201     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013202     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013203     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013204     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013205     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013206     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013207     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013208     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013209     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013210     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013211     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013212     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013213     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013214     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013215     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013216     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013217     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013218     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013219     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013220     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013221     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013222     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013223     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013224     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013225     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013226     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013227     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013228     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013229     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013230     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013231     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013232     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013233     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013234     0.0031415716      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0013235     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013236     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013237     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013238     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013239     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013240     0.0032007874      0.52      5.58      0.48
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   SRCPARAM L0013241     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013242     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013243     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013244     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013245     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013246     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013247     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013248     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013249     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013250     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013251     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013252     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013253     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013254     0.0032007874      0.52      5.58      0.48
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0013255     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013256     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013257     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013258     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013259     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013260     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013261     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013262     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013263     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013264     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013265     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013266     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013267     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013268     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013269     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013270     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013271     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013272     0.0032152231      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE39
   SRCPARAM L0013273     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013274     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013275     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013276     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013277     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013278     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013279     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013280     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013281     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013282     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013283     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013284     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013285     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013286     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013287     0.0031825829      3.11      5.58      2.89
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   SRCPARAM L0013288     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013289     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013290     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013291     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013292     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013293     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013294     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013295     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013296     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013297     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013298     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013299     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013300     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013301     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013302     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013303     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013304     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013305     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013306     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013307     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013308     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013309     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013310     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013311     0.0031825829      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0013312     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013313     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013314     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013315     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013316     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013317     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013318     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013319     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013320     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013321     0.0032493438      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0013322     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013323     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013324     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013325     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013326     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013327     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013328     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013329     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013330     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013331     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013332     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013333     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013334     0.0032137649      3.11      5.58      2.89
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   SRCPARAM L0013335     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013336     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013337     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013338     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013339     0.0032137649      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0013340     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013341     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013342     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013343     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013344     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013345     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013346     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013347     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013348     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013349     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013350     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013351     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013352     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013353     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013354     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013355     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013356     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013357     0.0031918927      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0013358     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013359     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013360     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013361     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013362     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013363     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013364     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013365     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013366     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013367     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013368     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013369     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013370     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013371     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013372     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013373     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013374     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013375     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013376     0.0031219782      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0013377     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013378     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013379     0.0032135827      3.11      5.58      2.89
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   SRCPARAM L0013380     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013381     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013382     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013383     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013384     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013385     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013386     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013387     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013388     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013389     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013390     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013391     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013392     0.0032135827      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE18
   SRCPARAM L0013393     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013394     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013395     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013396     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013397     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013398     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013399     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013400     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013401     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013402     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013403     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013404     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013405     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013406     0.0032583427      3.11      5.58      2.89
** ------------------------------------------------------------------
   SRCPARAM PAREA1       7.7462E-06     5.000         5
   AREAVERT PAREA1       439975.943 3762818.332 440317.038 3762818.332
   AREAVERT PAREA1       440314.304 3762676.153 439968.424 3762587.974
   AREAVERT PAREA1       439969.108 3762819.700
   SRCPARAM PAREA2       8.4798E-06     5.000         9
   AREAVERT PAREA2       439957.487 3762492.276 439958.855 3762320.020
   AREAVERT PAREA2       440038.147 3762320.020 440037.464 3762357.616
   AREAVERT PAREA2       440154.352 3762357.616 440146.833 3762481.339
   AREAVERT PAREA2       440359.419 3762482.023 440353.267 3762577.721
   AREAVERT PAREA2       440271.240 3762571.569
   SRCPARAM PAREA3       4.0539E-06     5.000         5
   AREAVERT PAREA3       439958.855 3762265.335 439958.855 3762181.258
   AREAVERT PAREA3       440165.289 3762180.574 440159.820 3762266.703
   AREAVERT PAREA3       439956.804 3762268.070
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP P1ONRUN  L0013092 L0013093 L0013094 L0013095 L0013096 L0013097
SRCGROUP P1ONRUN  L0013098 L0013099 L0013100 L0013101 L0013102 L0013103
SRCGROUP P1ONRUN  L0013104 L0013105 L0013106 L0013107 L0013108 L0013109
SRCGROUP P1ONRUN  L0013110 L0013111 L0013112 L0013113 L0013114 L0013115
SRCGROUP P1ONRUN  L0013116 L0013117 L0013118 L0013119 L0013120 L0013121
SRCGROUP P1ONRUN  L0013122 L0013123 L0013124 L0013125 L0013126 L0013127
SRCGROUP P1ONRUN  L0013128 L0013129 L0013130 L0013131 L0013132 L0013133
SRCGROUP P1ONRUN  L0013134 L0013135 L0013136 L0013137 L0013138 L0013139
SRCGROUP P1ONRUN  L0013140 L0013141 L0013142 L0013143 L0013144 L0013145
SRCGROUP P1ONRUN  L0013146 L0013147 L0013148 L0013149 L0013150 L0013151
SRCGROUP P1ONRUN  L0013152 L0013153 L0013154 L0013155 L0013156 L0013157
SRCGROUP P1ONRUN  L0013158 L0013159 L0013160 L0013161 L0013162 L0013163
SRCGROUP P1ONRUN  L0013164 L0013165 L0013166 L0013167 L0013168 L0013169
SRCGROUP P1ONRUN  L0013170 L0013171 L0013172 L0013173 L0013174 L0013175
SRCGROUP P1ONRUN  L0013176 L0013177 L0013178 L0013179 L0013180 L0013181
SRCGROUP P1ONRUN  L0013182 L0013183 L0013184 L0013185 L0013186 L0013187
SRCGROUP P1ONRUN  L0013188 L0013189 L0013190 L0013191 L0013192 L0013193
SRCGROUP P1ONRUN  L0013194 L0013195 L0013196 L0013197 L0013198 L0013199
SRCGROUP P1ONRUN  L0013200 L0013201 L0013202 L0013203 L0013204 L0013205
SRCGROUP P1ONRUN  L0013206 L0013207 L0013208 L0013209 L0013210 L0013211
SRCGROUP P1ONRUN  L0013212 L0013213 L0013214 L0013215 L0013216 L0013217
SRCGROUP P1ONRUN  L0013218 L0013219 L0013220 L0013221 L0013222 L0013223
SRCGROUP P1ONRUN  L0013224 L0013225 L0013226 L0013227 L0013228 L0013229
SRCGROUP P1ONRUN  L0013230 L0013231 L0013232 L0013233 L0013234 L0013235
SRCGROUP P1ONRUN  L0013236 L0013237 L0013238 L0013239 L0013240 L0013241
SRCGROUP P1ONRUN  L0013242 L0013243 L0013244 L0013245 L0013246 L0013247
SRCGROUP P1ONRUN  L0013248 L0013249 L0013250 L0013251 L0013252 L0013253
SRCGROUP P1ONRUN  L0013254 L0013255 L0013256 L0013257 L0013258 L0013259
SRCGROUP P1ONRUN  L0013260 L0013261 L0013262 L0013263 L0013264 L0013265
SRCGROUP P1ONRUN  L0013266 L0013267 L0013268 L0013269 L0013270 L0013271
SRCGROUP P1ONRUN  L0013272 L0013273 L0013274 L0013275 L0013276 L0013277
SRCGROUP P1ONRUN  L0013278 L0013279 L0013280 L0013281 L0013282 L0013283
SRCGROUP P1ONRUN  L0013284 L0013285 L0013286 L0013287 L0013288 L0013289
SRCGROUP P1ONRUN  L0013290 L0013291 L0013292 L0013293 L0013294 L0013295
SRCGROUP P1ONRUN  L0013296 L0013297 L0013298 L0013299 L0013300 L0013301
SRCGROUP P1ONRUN  L0013302 L0013303 L0013304 L0013305 L0013306 L0013307
SRCGROUP P1ONRUN  L0013308 L0013309 L0013310 L0013311 L0013312 L0013313
SRCGROUP P1ONRUN  L0013314 L0013315 L0013316 L0013317 L0013318 L0013319
SRCGROUP P1ONRUN  L0013320 L0013321 L0013322 L0013323 L0013324 L0013325
SRCGROUP P1ONRUN  L0013326 L0013327 L0013328 L0013329 L0013330 L0013331
SRCGROUP P1ONRUN  L0013332 L0013333 L0013334 L0013335 L0013336 L0013337
SRCGROUP P1ONRUN  L0013338 L0013339 L0013340 L0013341 L0013342 L0013343
```

```
   SRCGROUP P1ONRUN  L0013344 L0013345 L0013346 L0013347 L0013348 L0013349
   SRCGROUP P1ONRUN  L0013350 L0013351 L0013352 L0013353 L0013354 L0013355
   SRCGROUP P1ONRUN  L0013356 L0013357 L0013358 L0013359 L0013360 L0013361
   SRCGROUP P1ONRUN  L0013362 L0013363 L0013364 L0013365 L0013366 L0013367
   SRCGROUP P1ONRUN  L0013368 L0013369 L0013370 L0013371 L0013372 L0013373
   SRCGROUP P1ONRUN  L0013374 L0013375 L0013376 L0013377 L0013378 L0013379
   SRCGROUP P1ONRUN  L0013380 L0013381 L0013382 L0013383 L0013384 L0013385
   SRCGROUP P1ONRUN  L0013386 L0013387 L0013388 L0013389 L0013390 L0013391
   SRCGROUP P1ONRUN  L0013392 L0013393 L0013394 L0013395 L0013396 L0013397
   SRCGROUP P1ONRUN  L0013398 L0013399 L0013400 L0013401 L0013402 L0013403
   SRCGROUP P1ONRUN  L0013404 L0013405 L0013406
   SRCGROUP P1ONIDLE L0013407 L0013408 L0013409 L0013410 L0013411 L0013412
   SRCGROUP P1ONIDLE L0013413 L0013414 L0013415 L0013416 L0013417 L0013418
   SRCGROUP P1ONIDLE L0013419 L0013420 L0013421 L0013422 L0013423 L0013424
   SRCGROUP P1ONIDLE L0013425 L0013426 L0013427 L0013428 L0013429 L0013430
   SRCGROUP P1ONIDLE L0013431 L0013432 L0013433 L0013434 L0013435 L0013436
   SRCGROUP P1ONIDLE L0013437 L0013438 L0013439 L0013440 L0013441 L0013442
   SRCGROUP P1ONIDLE L0013443 L0013444 L0013445 L0013446 L0013447 L0013448
   SRCGROUP P1ONIDLE L0013449 L0013450 L0013451 L0013452 L0013453 L0013454
   SRCGROUP P1GEN    PAREA1 PAREA2 PAREA3
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_P1Op_PM10_24HR.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
```

```
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST ONTARIOEUCLID_P1OP_PM10_24HR.AD\24H1GALL.PLT 31
   PLOTFILE 24 P1ONRUN 1ST ONTARIOEUCLID_P1OP_PM10_24HR.AD\24H1G001.PLT 32
   PLOTFILE 24 P1ONIDLE 1ST ONTARIOEUCLID_P1OP_PM10_24HR.AD\24H1G002.PLT 33
   PLOTFILE 24 P1GEN 1ST ONTARIOEUCLID_P1OP_PM10_24HR.AD\24H1G003.PLT 34
   PLOTFILE PERIOD ALL ONTARIOEUCLID_P1OP_PM10_24HR.AD\PE00GALL.PLT 35
   PLOTFILE PERIOD P1ONRUN ONTARIOEUCLID_P1OP_PM10_24HR.AD\PE00G001.PLT 36
   PLOTFILE PERIOD P1ONIDLE ONTARIOEUCLID_P1OP_PM10_24HR.AD\PE00G002.PLT 37
   PLOTFILE PERIOD P1GEN ONTARIOEUCLID_P1OP_PM10_24HR.AD\PE00G003.PLT 38
   SUMMFILE OntarioEuclid_P1Op_PM10_24HR.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/5/2023
** File: C:\Lakes\OntarioEuclid_P1Op_PM10_24HR\OntarioEuclid_P1Op_PM10_24HR.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid P1OP PM10 24HR
   MODELOPT DFAULT CONC
   AVERTIME 24 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_P1Op_PM10_24HR.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Building 1 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0439137
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439979.680, 3762795.008, 219.39, 3.11, 6.98
** 440019.164, 3762795.008, 219.45, 3.11, 6.98
** ------------------------------------------------------------------------
   LOCATION L0013407     VOLUME   439987.180 3762795.008 219.43
```

```
   LOCATION L0013408     VOLUME   440002.180 3762795.008 219.45
   LOCATION L0013409     VOLUME   440017.180 3762795.008 219.47
** End of LINE VOLUME Source ID = SLINE26
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Building 2 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0485592
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439977.938, 3762735.201, 218.71, 3.11, 6.98
** 440018.584, 3762735.201, 218.82, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013410     VOLUME   439985.438 3762735.201 218.79
   LOCATION L0013411     VOLUME   440000.438 3762735.201 218.84
   LOCATION L0013412     VOLUME   440015.438 3762735.201 218.88
** End of LINE VOLUME Source ID = SLINE27
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Building 3 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0385124
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439995.358, 3762633.007, 217.26, 3.11, 6.98
** 439995.938, 3762581.909, 216.46, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013413     VOLUME   439995.443 3762625.507 217.14
   LOCATION L0013414     VOLUME   439995.613 3762610.508 216.95
   LOCATION L0013415     VOLUME   439995.784 3762595.509 216.73
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Building 4 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0549656
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440075.488, 3762801.976, 219.54, 3.11, 6.98
```

```
** 440117.294, 3762801.976, 219.49, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0013416     VOLUME   440082.988 3762801.976 219.48
   LOCATION L0013417     VOLUME   440097.988 3762801.976 219.47
   LOCATION L0013418     VOLUME   440112.988 3762801.976 219.49
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Building 5 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.092095
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440078.391, 3762717.201, 218.56, 3.11, 6.98
** 440078.391, 3762659.136, 217.97, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0013419     VOLUME   440078.391 3762709.701 218.57
   LOCATION L0013420     VOLUME   440078.391 3762694.701 218.38
   LOCATION L0013421     VOLUME   440078.391 3762679.701 218.18
   LOCATION L0013422     VOLUME   440078.391 3762664.701 218.00
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC Building 6 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1609194
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440237.489, 3762788.041, 219.93, 3.11, 6.98
** 440238.651, 3762709.653, 219.12, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0013423     VOLUME   440237.600 3762780.541 219.88
   LOCATION L0013424     VOLUME   440237.823 3762765.543 219.78
   LOCATION L0013425     VOLUME   440238.045 3762750.545 219.62
   LOCATION L0013426     VOLUME   440238.267 3762735.546 219.44
   LOCATION L0013427     VOLUME   440238.489 3762720.548 219.27
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Building 7 Idle
** PREFIX
** Length of Side = 15.00
```

```
** Configuration = Adjacent
** Emission Rate = 0.0937694
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440296.716, 3762795.008, 219.86, 3.11, 6.98
** 440296.716, 3762742.169, 218.72, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013428     VOLUME   440296.716 3762787.508 219.78
   LOCATION L0013429     VOLUME   440296.716 3762772.508 219.34
   LOCATION L0013430     VOLUME   440296.716 3762757.508 218.93
   LOCATION L0013431     VOLUME   440296.716 3762742.508 218.70
** End of LINE VOLUME Source ID = SLINE32
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Building 8 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0971183
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440246.780, 3762543.586, 214.83, 3.11, 6.98
** 440301.942, 3762543.586, 214.44, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013432     VOLUME   440254.280 3762543.586 214.62
   LOCATION L0013433     VOLUME   440269.280 3762543.586 214.34
   LOCATION L0013434     VOLUME   440284.280 3762543.586 214.39
   LOCATION L0013435     VOLUME   440299.280 3762543.586 214.40
** End of LINE VOLUME Source ID = SLINE33
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Building 9  Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1088395
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440053.423, 3762439.650, 215.38, 3.11, 6.98
** 440121.359, 3762440.230, 215.09, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013436     VOLUME   440060.923 3762439.714 215.39
   LOCATION L0013437     VOLUME   440075.922 3762439.842 215.27
   LOCATION L0013438     VOLUME   440090.921 3762439.970 215.16
   LOCATION L0013439     VOLUME   440105.921 3762440.098 215.11
   LOCATION L0013440     VOLUME   440120.920 3762440.227 215.12
```

```
** End of LINE VOLUME Source ID = SLINE34
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Building 10 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0837997
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440051.681, 3762374.617, 214.11, 3.11, 6.98
** 440121.940, 3762375.778, 214.33, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013441     VOLUME   440059.180 3762374.741 214.42
   LOCATION L0013442     VOLUME   440074.178 3762374.989 214.38
   LOCATION L0013443     VOLUME   440089.176 3762375.237 214.35
   LOCATION L0013444     VOLUME   440104.174 3762375.484 214.32
   LOCATION L0013445     VOLUME   440119.172 3762375.732 214.26
** End of LINE VOLUME Source ID = SLINE35
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC Building 11 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0284657
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 2
** 439969.228, 3762487.263, 214.84, 0.52, 6.98
** 439995.938, 3762463.456, 214.83, 0.52, 6.98
** ------------------------------------------------------------------
   LOCATION L0013446     VOLUME   439974.827 3762482.273 214.89
   LOCATION L0013447     VOLUME   439986.025 3762472.292 214.87
** End of LINE VOLUME Source ID = SLINE36
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Building 12 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0251323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439972.712, 3762357.197, 213.29, 3.11, 6.98
** 439994.196, 3762332.229, 213.46, 3.11, 6.98
```

```
** ----------------------------------------------------------------------
   LOCATION L0013448     VOLUME   439977.604 3762351.512 213.39
   LOCATION L0013449     VOLUME   439987.388 3762340.142 213.51
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Building 13 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1239096
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440018.003, 3762237.583, 212.71, 3.11, 6.98
** 440088.262, 3762238.164, 212.91, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013450     VOLUME   440025.503 3762237.645 212.81
   LOCATION L0013451     VOLUME   440040.502 3762237.769 212.89
   LOCATION L0013452     VOLUME   440055.502 3762237.893 212.91
   LOCATION L0013453     VOLUME   440070.501 3762238.017 212.92
   LOCATION L0013454     VOLUME   440085.501 3762238.141 212.91
** End of LINE VOLUME Source ID = SLINE38
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Onsite Building 1
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.071417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.723, 3762869.914, 220.47, 3.11, 5.58
** 440153.303, 3762781.342, 219.32, 3.11, 5.58
** 440038.286, 3762782.601, 219.42, 3.11, 5.58
** 440037.446, 3762773.786, 219.18, 3.11, 5.58
** 439977.839, 3762774.206, 219.07, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013092     VOLUME   440153.695 3762863.914 220.47
   LOCATION L0013093     VOLUME   440153.638 3762851.914 220.15
   LOCATION L0013094     VOLUME   440153.581 3762839.914 219.95
   LOCATION L0013095     VOLUME   440153.524 3762827.914 219.76
   LOCATION L0013096     VOLUME   440153.467 3762815.915 219.59
   LOCATION L0013097     VOLUME   440153.410 3762803.915 219.46
   LOCATION L0013098     VOLUME   440153.353 3762791.915 219.33
   LOCATION L0013099     VOLUME   440151.876 3762781.358 219.24
   LOCATION L0013100     VOLUME   440139.877 3762781.489 219.24
   LOCATION L0013101     VOLUME   440127.878 3762781.620 219.28
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   LOCATION L0013102     VOLUME   440115.878 3762781.752 219.32
   LOCATION L0013103     VOLUME   440103.879 3762781.883 219.31
   LOCATION L0013104     VOLUME   440091.880 3762782.015 219.31
   LOCATION L0013105     VOLUME   440079.881 3762782.146 219.34
   LOCATION L0013106     VOLUME   440067.881 3762782.277 219.36
   LOCATION L0013107     VOLUME   440055.882 3762782.409 219.37
   LOCATION L0013108     VOLUME   440043.883 3762782.540 219.38
   LOCATION L0013109     VOLUME   440037.679 3762776.227 219.32
   LOCATION L0013110     VOLUME   440027.899 3762773.853 219.30
   LOCATION L0013111     VOLUME   440015.899 3762773.938 219.29
   LOCATION L0013112     VOLUME   440003.899 3762774.022 219.27
   LOCATION L0013113     VOLUME   439991.900 3762774.107 219.24
   LOCATION L0013114     VOLUME   439979.900 3762774.191 219.21
** End of LINE VOLUME Source ID = SLINE6
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Onsite Building 2
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.077690289
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.303, 3762869.494, 220.45, 3.11, 5.58
** 440153.723, 3762762.872, 219.11, 3.11, 5.58
** 440038.706, 3762761.613, 219.20, 3.11, 5.58
** 440037.866, 3762747.341, 218.83, 3.11, 5.58
** 439977.839, 3762746.501, 218.71, 3.11, 5.58
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   LOCATION L0013115     VOLUME   440153.327 3762863.494 220.46
   LOCATION L0013116     VOLUME   440153.374 3762851.494 220.14
   LOCATION L0013117     VOLUME   440153.421 3762839.494 219.95
   LOCATION L0013118     VOLUME   440153.469 3762827.495 219.75
   LOCATION L0013119     VOLUME   440153.516 3762815.495 219.59
   LOCATION L0013120     VOLUME   440153.563 3762803.495 219.46
   LOCATION L0013121     VOLUME   440153.610 3762791.495 219.33
   LOCATION L0013122     VOLUME   440153.658 3762779.495 219.23
   LOCATION L0013123     VOLUME   440153.705 3762767.495 219.14
   LOCATION L0013124     VOLUME   440146.346 3762762.791 219.06
   LOCATION L0013125     VOLUME   440134.347 3762762.660 219.07
   LOCATION L0013126     VOLUME   440122.348 3762762.529 219.11
   LOCATION L0013127     VOLUME   440110.349 3762762.397 219.13
   LOCATION L0013128     VOLUME   440098.349 3762762.266 219.14
   LOCATION L0013129     VOLUME   440086.350 3762762.134 219.16
   LOCATION L0013130     VOLUME   440074.351 3762762.003 219.18
   LOCATION L0013131     VOLUME   440062.351 3762761.872 219.19
   LOCATION L0013132     VOLUME   440050.352 3762761.740 219.20
   LOCATION L0013133     VOLUME   440038.685 3762761.261 219.20
   LOCATION L0013134     VOLUME   440037.980 3762749.281 219.06
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   LOCATION L0013135     VOLUME   440027.811 3762747.200 219.03
   LOCATION L0013136     VOLUME   440015.812 3762747.032 219.02
   LOCATION L0013137     VOLUME   440003.814 3762746.864 218.98
   LOCATION L0013138     VOLUME   439991.815 3762746.697 218.95
   LOCATION L0013139     VOLUME   439979.816 3762746.529 218.91
** End of LINE VOLUME Source ID = SLINE7
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Onsite Building 3
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.104488189
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440152.464, 3762870.334, 220.46, 3.11, 5.58
** 440153.723, 3762630.644, 217.47, 3.11, 5.58
** 440047.521, 3762597.062, 217.53, 3.11, 5.58
** 440044.163, 3762611.754, 217.81, 3.11, 5.58
** 440012.260, 3762611.754, 217.20, 3.11, 5.58
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   LOCATION L0013140     VOLUME   440152.495 3762864.334 220.48
   LOCATION L0013141     VOLUME   440152.558 3762852.334 220.16
   LOCATION L0013142     VOLUME   440152.621 3762840.334 219.96
   LOCATION L0013143     VOLUME   440152.684 3762828.334 219.76
   LOCATION L0013144     VOLUME   440152.747 3762816.334 219.60
   LOCATION L0013145     VOLUME   440152.811 3762804.335 219.47
   LOCATION L0013146     VOLUME   440152.874 3762792.335 219.33
   LOCATION L0013147     VOLUME   440152.937 3762780.335 219.24
   LOCATION L0013148     VOLUME   440153.000 3762768.335 219.14
   LOCATION L0013149     VOLUME   440153.063 3762756.335 219.06
   LOCATION L0013150     VOLUME   440153.126 3762744.335 219.01
   LOCATION L0013151     VOLUME   440153.189 3762732.336 218.96
   LOCATION L0013152     VOLUME   440153.252 3762720.336 218.83
   LOCATION L0013153     VOLUME   440153.315 3762708.336 218.69
   LOCATION L0013154     VOLUME   440153.378 3762696.336 218.52
   LOCATION L0013155     VOLUME   440153.441 3762684.336 218.27
   LOCATION L0013156     VOLUME   440153.504 3762672.336 218.02
   LOCATION L0013157     VOLUME   440153.567 3762660.337 217.82
   LOCATION L0013158     VOLUME   440153.630 3762648.337 217.64
   LOCATION L0013159     VOLUME   440153.693 3762636.337 217.46
   LOCATION L0013160     VOLUME   440147.710 3762628.742 217.28
   LOCATION L0013161     VOLUME   440136.268 3762625.125 217.18
   LOCATION L0013162     VOLUME   440124.826 3762621.507 217.16
   LOCATION L0013163     VOLUME   440113.385 3762617.889 217.17
   LOCATION L0013164     VOLUME   440101.943 3762614.271 217.26
   LOCATION L0013165     VOLUME   440090.501 3762610.653 217.36
   LOCATION L0013166     VOLUME   440079.060 3762607.035 217.41
   LOCATION L0013167     VOLUME   440067.618 3762603.417 217.47
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   LOCATION L0013168     VOLUME   440056.177 3762599.799 217.54
   LOCATION L0013169     VOLUME   440046.870 3762599.911 217.62
   LOCATION L0013170     VOLUME   440044.196 3762611.609 217.83
   LOCATION L0013171     VOLUME   440032.312 3762611.754 217.71
   LOCATION L0013172     VOLUME   440020.312 3762611.754 217.40
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Onite Building 4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.042309711
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440152.464, 3762869.914, 220.45, 3.11, 5.58
** 440152.884, 3762782.601, 219.33, 3.11, 5.58
** 440079.004, 3762783.021, 219.38, 3.11, 5.58
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   LOCATION L0013173     VOLUME   440152.493 3762863.914 220.47
   LOCATION L0013174     VOLUME   440152.550 3762851.914 220.15
   LOCATION L0013175     VOLUME   440152.608 3762839.914 219.95
   LOCATION L0013176     VOLUME   440152.666 3762827.914 219.76
   LOCATION L0013177     VOLUME   440152.723 3762815.915 219.60
   LOCATION L0013178     VOLUME   440152.781 3762803.915 219.46
   LOCATION L0013179     VOLUME   440152.839 3762791.915 219.33
   LOCATION L0013180     VOLUME   440150.197 3762782.617 219.25
   LOCATION L0013181     VOLUME   440138.197 3762782.685 219.26
   LOCATION L0013182     VOLUME   440126.198 3762782.753 219.30
   LOCATION L0013183     VOLUME   440114.198 3762782.821 219.33
   LOCATION L0013184     VOLUME   440102.198 3762782.889 219.32
   LOCATION L0013185     VOLUME   440090.198 3762782.958 219.32
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Onsite Building 5
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.153937008
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 440152.884, 3762870.754, 220.48, 3.11, 5.58
** 440155.402, 3762635.681, 217.50, 3.11, 5.58
** 440062.633, 3762599.581, 217.46, 3.11, 5.58
** 440059.694, 3762709.981, 218.54, 3.11, 5.58
** 440058.855, 3762763.712, 219.18, 3.11, 5.58
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** 440146.587, 3762762.452, 219.03, 3.11, 5.58
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   LOCATION L0013186     VOLUME   440152.948 3762864.754 220.49
   LOCATION L0013187     VOLUME   440153.076 3762852.755 220.16
   LOCATION L0013188     VOLUME   440153.205 3762840.755 219.97
   LOCATION L0013189     VOLUME   440153.334 3762828.756 219.77
   LOCATION L0013190     VOLUME   440153.462 3762816.757 219.60
   LOCATION L0013191     VOLUME   440153.591 3762804.757 219.47
   LOCATION L0013192     VOLUME   440153.719 3762792.758 219.34
   LOCATION L0013193     VOLUME   440153.848 3762780.759 219.24
   LOCATION L0013194     VOLUME   440153.976 3762768.759 219.15
   LOCATION L0013195     VOLUME   440154.105 3762756.760 219.07
   LOCATION L0013196     VOLUME   440154.233 3762744.761 219.03
   LOCATION L0013197     VOLUME   440154.362 3762732.761 218.98
   LOCATION L0013198     VOLUME   440154.491 3762720.762 218.86
   LOCATION L0013199     VOLUME   440154.619 3762708.763 218.72
   LOCATION L0013200     VOLUME   440154.748 3762696.763 218.56
   LOCATION L0013201     VOLUME   440154.876 3762684.764 218.31
   LOCATION L0013202     VOLUME   440155.005 3762672.765 218.05
   LOCATION L0013203     VOLUME   440155.133 3762660.766 217.85
   LOCATION L0013204     VOLUME   440155.262 3762648.766 217.66
   LOCATION L0013205     VOLUME   440155.391 3762636.767 217.48
   LOCATION L0013206     VOLUME   440145.231 3762631.723 217.30
   LOCATION L0013207     VOLUME   440134.048 3762627.371 217.22
   LOCATION L0013208     VOLUME   440122.865 3762623.020 217.19
   LOCATION L0013209     VOLUME   440111.682 3762618.668 217.20
   LOCATION L0013210     VOLUME   440100.498 3762614.316 217.28
   LOCATION L0013211     VOLUME   440089.315 3762609.964 217.36
   LOCATION L0013212     VOLUME   440078.132 3762605.612 217.40
   LOCATION L0013213     VOLUME   440066.949 3762601.261 217.45
   LOCATION L0013214     VOLUME   440062.437 3762606.946 217.57
   LOCATION L0013215     VOLUME   440062.117 3762618.942 217.70
   LOCATION L0013216     VOLUME   440061.798 3762630.938 217.82
   LOCATION L0013217     VOLUME   440061.479 3762642.934 217.92
   LOCATION L0013218     VOLUME   440061.159 3762654.929 217.98
   LOCATION L0013219     VOLUME   440060.840 3762666.925 218.05
   LOCATION L0013220     VOLUME   440060.521 3762678.921 218.20
   LOCATION L0013221     VOLUME   440060.202 3762690.917 218.37
   LOCATION L0013222     VOLUME   440059.882 3762702.912 218.53
   LOCATION L0013223     VOLUME   440059.617 3762714.909 218.67
   LOCATION L0013224     VOLUME   440059.430 3762726.908 218.81
   LOCATION L0013225     VOLUME   440059.242 3762738.906 218.95
   LOCATION L0013226     VOLUME   440059.055 3762750.905 219.08
   LOCATION L0013227     VOLUME   440058.867 3762762.903 219.20
   LOCATION L0013228     VOLUME   440070.045 3762763.551 219.20
   LOCATION L0013229     VOLUME   440082.044 3762763.379 219.17
   LOCATION L0013230     VOLUME   440094.043 3762763.207 219.15
   LOCATION L0013231     VOLUME   440106.041 3762763.034 219.14
   LOCATION L0013232     VOLUME   440118.040 3762762.862 219.13
   LOCATION L0013233     VOLUME   440130.039 3762762.690 219.09
   LOCATION L0013234     VOLUME   440142.038 3762762.518 219.05
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** End of LINE VOLUME Source ID = SLINE10
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC Onsite Building 6
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.064015748
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 3
** 440369.066, 3762686.893, 218.77, 0.52, 5.58
** 440258.246, 3762657.929, 218.44, 0.52, 5.58
** 440253.629, 3762787.219, 219.89, 0.52, 5.58
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   LOCATION L0013235     VOLUME   440363.261 3762685.376 218.72
   LOCATION L0013236     VOLUME   440351.651 3762682.342 218.66
   LOCATION L0013237     VOLUME   440340.041 3762679.307 218.47
   LOCATION L0013238     VOLUME   440328.431 3762676.273 218.22
   LOCATION L0013239     VOLUME   440316.821 3762673.238 218.02
   LOCATION L0013240     VOLUME   440305.211 3762670.204 217.91
   LOCATION L0013241     VOLUME   440293.601 3762667.170 217.90
   LOCATION L0013242     VOLUME   440281.991 3762664.135 218.20
   LOCATION L0013243     VOLUME   440270.381 3762661.101 218.46
   LOCATION L0013244     VOLUME   440258.771 3762658.066 218.42
   LOCATION L0013245     VOLUME   440257.837 3762669.380 218.64
   LOCATION L0013246     VOLUME   440257.409 3762681.372 218.78
   LOCATION L0013247     VOLUME   440256.981 3762693.364 218.92
   LOCATION L0013248     VOLUME   440256.552 3762705.357 219.04
   LOCATION L0013249     VOLUME   440256.124 3762717.349 219.15
   LOCATION L0013250     VOLUME   440255.696 3762729.341 219.25
   LOCATION L0013251     VOLUME   440255.268 3762741.334 219.43
   LOCATION L0013252     VOLUME   440254.839 3762753.326 219.61
   LOCATION L0013253     VOLUME   440254.411 3762765.318 219.74
   LOCATION L0013254     VOLUME   440253.983 3762777.311 219.81
** End of LINE VOLUME Source ID = SLINE11
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Onsite Building 7
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057874016
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440368.646, 3762688.573, 218.78, 3.11, 5.58
** 440279.655, 3762665.065, 218.35, 3.11, 5.58
** 440278.395, 3762793.515, 219.79, 3.11, 5.58
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   LOCATION L0013255     VOLUME   440362.845 3762687.040 218.73
   LOCATION L0013256     VOLUME   440351.243 3762683.975 218.67
   LOCATION L0013257     VOLUME   440339.641 3762680.911 218.48
   LOCATION L0013258     VOLUME   440328.039 3762677.846 218.23
   LOCATION L0013259     VOLUME   440316.437 3762674.781 218.04
   LOCATION L0013260     VOLUME   440304.835 3762671.717 217.93
   LOCATION L0013261     VOLUME   440293.233 3762668.652 217.93
   LOCATION L0013262     VOLUME   440281.631 3762665.587 218.24
   LOCATION L0013263     VOLUME   440279.557 3762675.021 218.42
   LOCATION L0013264     VOLUME   440279.439 3762687.020 218.55
   LOCATION L0013265     VOLUME   440279.322 3762699.020 218.68
   LOCATION L0013266     VOLUME   440279.204 3762711.019 218.76
   LOCATION L0013267     VOLUME   440279.086 3762723.018 218.84
   LOCATION L0013268     VOLUME   440278.969 3762735.018 218.98
   LOCATION L0013269     VOLUME   440278.851 3762747.017 219.19
   LOCATION L0013270     VOLUME   440278.734 3762759.017 219.40
   LOCATION L0013271     VOLUME   440278.616 3762771.016 219.56
   LOCATION L0013272     VOLUME   440278.498 3762783.016 219.72
** End of LINE VOLUME Source ID = SLINE12
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
** DESCRSRC Onsite PA4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.124120735
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.284, 3762525.123, 215.59, 3.11, 5.58
** 439990.794, 3762536.975, 215.91, 3.11, 5.58
** 440357.234, 3762635.746, 218.25, 3.11, 5.58
** 440370.074, 3762637.721, 218.37, 3.11, 5.58
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   LOCATION L0013273     VOLUME   439917.218 3762526.007 215.59
   LOCATION L0013274     VOLUME   439929.087 3762527.777 215.53
   LOCATION L0013275     VOLUME   439940.956 3762529.546 215.51
   LOCATION L0013276     VOLUME   439952.825 3762531.315 215.54
   LOCATION L0013277     VOLUME   439964.694 3762533.084 215.59
   LOCATION L0013278     VOLUME   439976.563 3762534.854 215.69
   LOCATION L0013279     VOLUME   439988.432 3762536.623 215.81
   LOCATION L0013280     VOLUME   440000.074 3762539.476 216.04
   LOCATION L0013281     VOLUME   440011.661 3762542.599 216.25
   LOCATION L0013282     VOLUME   440023.247 3762545.723 216.58
   LOCATION L0013283     VOLUME   440034.834 3762548.846 216.94
   LOCATION L0013284     VOLUME   440046.420 3762551.969 217.02
   LOCATION L0013285     VOLUME   440058.007 3762555.092 216.99
   LOCATION L0013286     VOLUME   440069.593 3762558.215 216.92
   LOCATION L0013287     VOLUME   440081.180 3762561.338 216.81
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   LOCATION L0013288     VOLUME   440092.766 3762564.461 216.69
   LOCATION L0013289     VOLUME   440104.353 3762567.584 216.56
   LOCATION L0013290     VOLUME   440115.939 3762570.707 216.42
   LOCATION L0013291     VOLUME   440127.526 3762573.830 216.46
   LOCATION L0013292     VOLUME   440139.112 3762576.953 216.50
   LOCATION L0013293     VOLUME   440150.699 3762580.076 216.74
   LOCATION L0013294     VOLUME   440162.285 3762583.199 217.01
   LOCATION L0013295     VOLUME   440173.871 3762586.322 217.18
   LOCATION L0013296     VOLUME   440185.458 3762589.445 217.33
   LOCATION L0013297     VOLUME   440197.044 3762592.568 217.49
   LOCATION L0013298     VOLUME   440208.631 3762595.691 217.59
   LOCATION L0013299     VOLUME   440220.217 3762598.814 217.64
   LOCATION L0013300     VOLUME   440231.804 3762601.937 217.59
   LOCATION L0013301     VOLUME   440243.390 3762605.060 217.54
   LOCATION L0013302     VOLUME   440254.977 3762608.183 217.43
   LOCATION L0013303     VOLUME   440266.563 3762611.306 217.33
   LOCATION L0013304     VOLUME   440278.150 3762614.429 217.25
   LOCATION L0013305     VOLUME   440289.736 3762617.552 217.17
   LOCATION L0013306     VOLUME   440301.323 3762620.676 217.21
   LOCATION L0013307     VOLUME   440312.909 3762623.799 217.40
   LOCATION L0013308     VOLUME   440324.496 3762626.922 217.61
   LOCATION L0013309     VOLUME   440336.082 3762630.045 217.91
   LOCATION L0013310     VOLUME   440347.669 3762633.168 218.20
   LOCATION L0013311     VOLUME   440359.303 3762636.064 218.29
** End of LINE VOLUME Source ID = SLINE39
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Onsite Building 8
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.032493438
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440370.568, 3762567.100, 217.52, 3.11, 5.58
** 440275.748, 3762564.137, 215.57, 3.11, 5.58
** 440248.092, 3762555.742, 215.39, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0013312     VOLUME   440364.571 3762566.913 217.25
   LOCATION L0013313     VOLUME   440352.577 3762566.538 216.81
   LOCATION L0013314     VOLUME   440340.582 3762566.163 216.37
   LOCATION L0013315     VOLUME   440328.588 3762565.788 215.92
   LOCATION L0013316     VOLUME   440316.594 3762565.414 215.63
   LOCATION L0013317     VOLUME   440304.600 3762565.039 215.60
   LOCATION L0013318     VOLUME   440292.606 3762564.664 215.58
   LOCATION L0013319     VOLUME   440280.612 3762564.289 215.60
   LOCATION L0013320     VOLUME   440268.922 3762562.065 215.51
   LOCATION L0013321     VOLUME   440257.439 3762558.579 215.52
** End of LINE VOLUME Source ID = SLINE13
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Onsite Building 9
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057847769
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.778, 3762403.635, 214.16, 3.11, 5.58
** 440009.067, 3762407.585, 215.02, 3.11, 5.58
** 440010.055, 3762416.969, 215.13, 3.11, 5.58
** 440123.641, 3762419.932, 214.99, 3.11, 5.58
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   LOCATION L0013322     VOLUME   439917.773 3762403.878 214.06
   LOCATION L0013323     VOLUME   439929.763 3762404.365 213.82
   LOCATION L0013324     VOLUME   439941.753 3762404.852 213.63
   LOCATION L0013325     VOLUME   439953.743 3762405.339 213.47
   LOCATION L0013326     VOLUME   439965.733 3762405.826 213.51
   LOCATION L0013327     VOLUME   439977.723 3762406.313 213.84
   LOCATION L0013328     VOLUME   439989.714 3762406.800 214.20
   LOCATION L0013329     VOLUME   440001.704 3762407.286 214.68
   LOCATION L0013330     VOLUME   440009.552 3762412.191 215.01
   LOCATION L0013331     VOLUME   440017.248 3762417.156 215.19
   LOCATION L0013332     VOLUME   440029.244 3762417.469 215.29
   LOCATION L0013333     VOLUME   440041.240 3762417.782 215.34
   LOCATION L0013334     VOLUME   440053.236 3762418.095 215.22
   LOCATION L0013335     VOLUME   440065.232 3762418.408 215.11
   LOCATION L0013336     VOLUME   440077.227 3762418.721 215.03
   LOCATION L0013337     VOLUME   440089.223 3762419.034 214.95
   LOCATION L0013338     VOLUME   440101.219 3762419.347 214.97
   LOCATION L0013339     VOLUME   440113.215 3762419.660 214.99
** End of LINE VOLUME Source ID = SLINE14
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC Onsite Building 10
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057454068
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439910.790, 3762403.635, 214.16, 3.11, 5.58
** 440002.647, 3762408.573, 214.95, 3.11, 5.58
** 440012.524, 3762396.227, 214.97, 3.11, 5.58
** 440123.641, 3762393.758, 214.57, 3.11, 5.58
** ------------------------------------------------------------------
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   LOCATION L0013340     VOLUME   439916.781 3762403.957 214.08
   LOCATION L0013341     VOLUME   439928.764 3762404.601 213.85
   LOCATION L0013342     VOLUME   439940.747 3762405.245 213.65
   LOCATION L0013343     VOLUME   439952.730 3762405.889 213.49
   LOCATION L0013344     VOLUME   439964.712 3762406.534 213.50
   LOCATION L0013345     VOLUME   439976.695 3762407.178 213.83
   LOCATION L0013346     VOLUME   439988.678 3762407.822 214.18
   LOCATION L0013347     VOLUME   440000.660 3762408.466 214.65
   LOCATION L0013348     VOLUME   440008.900 3762400.756 214.91
   LOCATION L0013349     VOLUME   440018.722 3762396.089 215.05
   LOCATION L0013350     VOLUME   440030.719 3762395.823 215.09
   LOCATION L0013351     VOLUME   440042.716 3762395.556 215.05
   LOCATION L0013352     VOLUME   440054.713 3762395.289 214.89
   LOCATION L0013353     VOLUME   440066.710 3762395.023 214.76
   LOCATION L0013354     VOLUME   440078.707 3762394.756 214.71
   LOCATION L0013355     VOLUME   440090.704 3762394.490 214.67
   LOCATION L0013356     VOLUME   440102.701 3762394.223 214.68
   LOCATION L0013357     VOLUME   440114.698 3762393.956 214.69
** End of LINE VOLUME Source ID = SLINE15
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Onsite Building 11
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.059317585
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.308, 3762405.338, 214.18, 3.11, 5.58
** 440007.437, 3762407.437, 215.01, 3.11, 5.58
** 440007.017, 3762503.146, 215.85, 3.11, 5.58
** 439978.892, 3762483.837, 214.97, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013358     VOLUME   439917.306 3762405.469 214.09
   LOCATION L0013359     VOLUME   439929.304 3762405.731 213.85
   LOCATION L0013360     VOLUME   439941.301 3762405.993 213.66
   LOCATION L0013361     VOLUME   439953.298 3762406.255 213.49
   LOCATION L0013362     VOLUME   439965.295 3762406.517 213.51
   LOCATION L0013363     VOLUME   439977.292 3762406.779 213.83
   LOCATION L0013364     VOLUME   439989.289 3762407.041 214.19
   LOCATION L0013365     VOLUME   440001.286 3762407.303 214.66
   LOCATION L0013366     VOLUME   440007.411 3762413.286 214.94
   LOCATION L0013367     VOLUME   440007.359 3762425.285 215.02
   LOCATION L0013368     VOLUME   440007.306 3762437.285 215.03
   LOCATION L0013369     VOLUME   440007.253 3762449.285 215.03
   LOCATION L0013370     VOLUME   440007.201 3762461.285 215.08
   LOCATION L0013371     VOLUME   440007.148 3762473.285 215.17
   LOCATION L0013372     VOLUME   440007.095 3762485.285 215.26
   LOCATION L0013373     VOLUME   440007.043 3762497.285 215.53
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   LOCATION L0013374     VOLUME   440001.957 3762499.672 215.49
   LOCATION L0013375     VOLUME   439992.064 3762492.880 215.19
   LOCATION L0013376     VOLUME   439982.171 3762486.088 214.99
** End of LINE VOLUME Source ID = SLINE16
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Onsite Building 12
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.051417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.728, 3762405.338, 214.18, 3.11, 5.58
** 440004.918, 3762406.598, 214.98, 3.11, 5.58
** 440007.437, 3762332.297, 213.67, 3.11, 5.58
** 439979.732, 3762326.420, 213.41, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0013377     VOLUME   439917.727 3762405.420 214.08
   LOCATION L0013378     VOLUME   439929.726 3762405.582 213.84
   LOCATION L0013379     VOLUME   439941.725 3762405.744 213.65
   LOCATION L0013380     VOLUME   439953.724 3762405.906 213.48
   LOCATION L0013381     VOLUME   439965.723 3762406.068 213.51
   LOCATION L0013382     VOLUME   439977.722 3762406.230 213.83
   LOCATION L0013383     VOLUME   439989.721 3762406.392 214.19
   LOCATION L0013384     VOLUME   440001.719 3762406.555 214.67
   LOCATION L0013385     VOLUME   440005.216 3762397.802 214.73
   LOCATION L0013386     VOLUME   440005.623 3762385.809 214.57
   LOCATION L0013387     VOLUME   440006.029 3762373.816 214.34
   LOCATION L0013388     VOLUME   440006.436 3762361.822 214.10
   LOCATION L0013389     VOLUME   440006.842 3762349.829 213.93
   LOCATION L0013390     VOLUME   440007.249 3762337.836 213.75
   LOCATION L0013391     VOLUME   440001.119 3762330.957 213.59
   LOCATION L0013392     VOLUME   439989.381 3762328.467 213.46
** End of LINE VOLUME Source ID = SLINE17
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Onsite Building 13
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.045616798
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439912.567, 3762260.096, 212.15, 3.11, 5.58
** 440086.355, 3762258.417, 213.09, 3.11, 5.58
** ------------------------------------------------------------------
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   LOCATION L0013393     VOLUME   439918.567 3762260.038 212.19
   LOCATION L0013394     VOLUME   439930.566 3762259.922 212.36
   LOCATION L0013395     VOLUME   439942.566 3762259.806 212.39
   LOCATION L0013396     VOLUME   439954.565 3762259.690 212.35
   LOCATION L0013397     VOLUME   439966.565 3762259.574 212.40
   LOCATION L0013398     VOLUME   439978.564 3762259.458 212.53
   LOCATION L0013399     VOLUME   439990.564 3762259.342 212.64
   LOCATION L0013400     VOLUME   440002.563 3762259.226 212.73
   LOCATION L0013401     VOLUME   440014.562 3762259.110 212.82
   LOCATION L0013402     VOLUME   440026.562 3762258.994 212.90
   LOCATION L0013403     VOLUME   440038.561 3762258.878 212.97
   LOCATION L0013404     VOLUME   440050.561 3762258.762 213.01
   LOCATION L0013405     VOLUME   440062.560 3762258.647 213.05
   LOCATION L0013406     VOLUME   440074.560 3762258.531 213.05
** End of LINE VOLUME Source ID = SLINE18
   LOCATION PAREA1       AREAPOLY   439975.943  3762818.332      219.590
** DESCRSRC Generator PA 1
   LOCATION PAREA2       AREAPOLY   439957.487  3762492.276      214.950
** DESCRSRC Generator PA 2
   LOCATION PAREA3       AREAPOLY   439958.855  3762265.335      212.460
** DESCRSRC Generator PA 3A
** Source Parameters **
** LINE VOLUME Source ID = SLINE26
   SRCPARAM L0013407     0.0146379      3.11      6.98      2.89
   SRCPARAM L0013408     0.0146379      3.11      6.98      2.89
   SRCPARAM L0013409     0.0146379      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0013410     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013411     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013412     0.0161864      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0013413     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013414     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013415     0.0128374667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0013416     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013417     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013418     0.0183218667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
   SRCPARAM L0013419     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013420     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013421     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013422     0.02302375      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0013423     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013424     0.03218388      3.11      6.98      2.89
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   SRCPARAM L0013425     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013426     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013427     0.03218388      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0013428     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013429     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013430     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013431     0.02344235      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0013432     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013433     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013434     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013435     0.024279575      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0013436     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013437     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013438     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013439     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013440     0.0217679      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0013441     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013442     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013443     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013444     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013445     0.01675994      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0013446     0.01423285      0.52      6.98      0.48
   SRCPARAM L0013447     0.01423285      0.52      6.98      0.48
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0013448     0.01256615      3.11      6.98      2.89
   SRCPARAM L0013449     0.01256615      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0013450     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013451     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013452     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013453     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013454     0.02478192      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0013092     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013093     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013094     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013095     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013096     0.003105101      3.11      5.58      2.89
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   SRCPARAM L0013097     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013098     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013099     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013100     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013101     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013102     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013103     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013104     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013105     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013106     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013107     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013108     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013109     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013110     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013111     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013112     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013113     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013114     0.003105101      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0013115     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013116     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013117     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013118     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013119     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013120     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013121     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013122     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013123     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013124     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013125     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013126     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013127     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013128     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013129     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013130     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013131     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013132     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013133     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013134     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013135     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013136     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013137     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013138     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013139     0.0031076116      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0013140     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013141     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013142     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013143     0.0031663088      3.11      5.58      2.89
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   SRCPARAM L0013144     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013145     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013146     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013147     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013148     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013149     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013150     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013151     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013152     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013153     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013154     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013155     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013156     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013157     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013158     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013159     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013160     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013161     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013162     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013163     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013164     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013165     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013166     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013167     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013168     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013169     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013170     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013171     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013172     0.0031663088      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0013173     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013174     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013175     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013176     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013177     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013178     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013179     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013180     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013181     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013182     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013183     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013184     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013185     0.0032545932      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0013186     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013187     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013188     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013189     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013190     0.0031415716      3.11      5.58      2.89
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   SRCPARAM L0013191     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013192     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013193     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013194     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013195     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013196     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013197     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013198     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013199     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013200     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013201     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013202     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013203     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013204     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013205     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013206     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013207     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013208     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013209     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013210     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013211     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013212     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013213     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013214     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013215     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013216     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013217     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013218     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013219     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013220     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013221     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013222     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013223     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013224     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013225     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013226     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013227     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013228     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013229     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013230     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013231     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013232     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013233     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013234     0.0031415716      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0013235     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013236     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013237     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013238     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013239     0.0032007874      0.52      5.58      0.48
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   SRCPARAM L0013240     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013241     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013242     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013243     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013244     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013245     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013246     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013247     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013248     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013249     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013250     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013251     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013252     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013253     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013254     0.0032007874      0.52      5.58      0.48
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0013255     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013256     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013257     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013258     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013259     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013260     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013261     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013262     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013263     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013264     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013265     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013266     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013267     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013268     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013269     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013270     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013271     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013272     0.0032152231      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE39
   SRCPARAM L0013273     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013274     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013275     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013276     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013277     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013278     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013279     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013280     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013281     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013282     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013283     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013284     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013285     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013286     0.0031825829      3.11      5.58      2.89
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   SRCPARAM L0013287     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013288     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013289     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013290     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013291     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013292     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013293     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013294     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013295     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013296     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013297     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013298     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013299     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013300     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013301     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013302     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013303     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013304     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013305     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013306     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013307     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013308     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013309     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013310     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013311     0.0031825829      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0013312     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013313     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013314     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013315     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013316     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013317     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013318     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013319     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013320     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013321     0.0032493438      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0013322     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013323     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013324     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013325     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013326     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013327     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013328     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013329     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013330     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013331     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013332     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013333     0.0032137649      3.11      5.58      2.89
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   SRCPARAM L0013334     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013335     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013336     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013337     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013338     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013339     0.0032137649      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0013340     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013341     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013342     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013343     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013344     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013345     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013346     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013347     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013348     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013349     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013350     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013351     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013352     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013353     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013354     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013355     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013356     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013357     0.0031918927      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0013358     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013359     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013360     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013361     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013362     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013363     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013364     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013365     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013366     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013367     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013368     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013369     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013370     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013371     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013372     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013373     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013374     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013375     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013376     0.0031219782      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0013377     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013378     0.0032135827      3.11      5.58      2.89
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   SRCPARAM L0013379     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013380     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013381     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013382     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013383     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013384     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013385     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013386     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013387     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013388     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013389     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013390     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013391     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013392     0.0032135827      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE18
   SRCPARAM L0013393     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013394     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013395     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013396     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013397     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013398     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013399     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013400     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013401     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013402     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013403     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013404     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013405     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013406     0.0032583427      3.11      5.58      2.89
** ------------------------------------------------------------------
   SRCPARAM PAREA1       7.7462E-06     5.000         5
   AREAVERT PAREA1       439975.943 3762818.332 440317.038 3762818.332
   AREAVERT PAREA1       440314.304 3762676.153 439968.424 3762587.974
   AREAVERT PAREA1       439969.108 3762819.700
   SRCPARAM PAREA2       8.4798E-06     5.000         9
   AREAVERT PAREA2       439957.487 3762492.276 439958.855 3762320.020
   AREAVERT PAREA2       440038.147 3762320.020 440037.464 3762357.616
   AREAVERT PAREA2       440154.352 3762357.616 440146.833 3762481.339
   AREAVERT PAREA2       440359.419 3762482.023 440353.267 3762577.721
   AREAVERT PAREA2       440271.240 3762571.569
   SRCPARAM PAREA3       4.0539E-06     5.000         5
   AREAVERT PAREA3       439958.855 3762265.335 439958.855 3762181.258
   AREAVERT PAREA3       440165.289 3762180.574 440159.820 3762266.703
   AREAVERT PAREA3       439956.804 3762268.070
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
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EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
```

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EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP P1ONRUN  L0013092 L0013093 L0013094 L0013095 L0013096 L0013097
SRCGROUP P1ONRUN  L0013098 L0013099 L0013100 L0013101 L0013102 L0013103
SRCGROUP P1ONRUN  L0013104 L0013105 L0013106 L0013107 L0013108 L0013109
SRCGROUP P1ONRUN  L0013110 L0013111 L0013112 L0013113 L0013114 L0013115
SRCGROUP P1ONRUN  L0013116 L0013117 L0013118 L0013119 L0013120 L0013121
SRCGROUP P1ONRUN  L0013122 L0013123 L0013124 L0013125 L0013126 L0013127
SRCGROUP P1ONRUN  L0013128 L0013129 L0013130 L0013131 L0013132 L0013133
SRCGROUP P1ONRUN  L0013134 L0013135 L0013136 L0013137 L0013138 L0013139
SRCGROUP P1ONRUN  L0013140 L0013141 L0013142 L0013143 L0013144 L0013145
SRCGROUP P1ONRUN  L0013146 L0013147 L0013148 L0013149 L0013150 L0013151
SRCGROUP P1ONRUN  L0013152 L0013153 L0013154 L0013155 L0013156 L0013157
SRCGROUP P1ONRUN  L0013158 L0013159 L0013160 L0013161 L0013162 L0013163
SRCGROUP P1ONRUN  L0013164 L0013165 L0013166 L0013167 L0013168 L0013169
SRCGROUP P1ONRUN  L0013170 L0013171 L0013172 L0013173 L0013174 L0013175
SRCGROUP P1ONRUN  L0013176 L0013177 L0013178 L0013179 L0013180 L0013181
SRCGROUP P1ONRUN  L0013182 L0013183 L0013184 L0013185 L0013186 L0013187
SRCGROUP P1ONRUN  L0013188 L0013189 L0013190 L0013191 L0013192 L0013193
SRCGROUP P1ONRUN  L0013194 L0013195 L0013196 L0013197 L0013198 L0013199
SRCGROUP P1ONRUN  L0013200 L0013201 L0013202 L0013203 L0013204 L0013205
SRCGROUP P1ONRUN  L0013206 L0013207 L0013208 L0013209 L0013210 L0013211
SRCGROUP P1ONRUN  L0013212 L0013213 L0013214 L0013215 L0013216 L0013217
SRCGROUP P1ONRUN  L0013218 L0013219 L0013220 L0013221 L0013222 L0013223
SRCGROUP P1ONRUN  L0013224 L0013225 L0013226 L0013227 L0013228 L0013229
SRCGROUP P1ONRUN  L0013230 L0013231 L0013232 L0013233 L0013234 L0013235
SRCGROUP P1ONRUN  L0013236 L0013237 L0013238 L0013239 L0013240 L0013241
SRCGROUP P1ONRUN  L0013242 L0013243 L0013244 L0013245 L0013246 L0013247
SRCGROUP P1ONRUN  L0013248 L0013249 L0013250 L0013251 L0013252 L0013253
SRCGROUP P1ONRUN  L0013254 L0013255 L0013256 L0013257 L0013258 L0013259
SRCGROUP P1ONRUN  L0013260 L0013261 L0013262 L0013263 L0013264 L0013265
SRCGROUP P1ONRUN  L0013266 L0013267 L0013268 L0013269 L0013270 L0013271
SRCGROUP P1ONRUN  L0013272 L0013273 L0013274 L0013275 L0013276 L0013277
SRCGROUP P1ONRUN  L0013278 L0013279 L0013280 L0013281 L0013282 L0013283
SRCGROUP P1ONRUN  L0013284 L0013285 L0013286 L0013287 L0013288 L0013289
SRCGROUP P1ONRUN  L0013290 L0013291 L0013292 L0013293 L0013294 L0013295
SRCGROUP P1ONRUN  L0013296 L0013297 L0013298 L0013299 L0013300 L0013301
SRCGROUP P1ONRUN  L0013302 L0013303 L0013304 L0013305 L0013306 L0013307
SRCGROUP P1ONRUN  L0013308 L0013309 L0013310 L0013311 L0013312 L0013313
SRCGROUP P1ONRUN  L0013314 L0013315 L0013316 L0013317 L0013318 L0013319
SRCGROUP P1ONRUN  L0013320 L0013321 L0013322 L0013323 L0013324 L0013325
SRCGROUP P1ONRUN  L0013326 L0013327 L0013328 L0013329 L0013330 L0013331
SRCGROUP P1ONRUN  L0013332 L0013333 L0013334 L0013335 L0013336 L0013337
```

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   SRCGROUP P1ONRUN  L0013338 L0013339 L0013340 L0013341 L0013342 L0013343
   SRCGROUP P1ONRUN  L0013344 L0013345 L0013346 L0013347 L0013348 L0013349
   SRCGROUP P1ONRUN  L0013350 L0013351 L0013352 L0013353 L0013354 L0013355
   SRCGROUP P1ONRUN  L0013356 L0013357 L0013358 L0013359 L0013360 L0013361
   SRCGROUP P1ONRUN  L0013362 L0013363 L0013364 L0013365 L0013366 L0013367
   SRCGROUP P1ONRUN  L0013368 L0013369 L0013370 L0013371 L0013372 L0013373
   SRCGROUP P1ONRUN  L0013374 L0013375 L0013376 L0013377 L0013378 L0013379
   SRCGROUP P1ONRUN  L0013380 L0013381 L0013382 L0013383 L0013384 L0013385
   SRCGROUP P1ONRUN  L0013386 L0013387 L0013388 L0013389 L0013390 L0013391
   SRCGROUP P1ONRUN  L0013392 L0013393 L0013394 L0013395 L0013396 L0013397
   SRCGROUP P1ONRUN  L0013398 L0013399 L0013400 L0013401 L0013402 L0013403
   SRCGROUP P1ONRUN  L0013404 L0013405 L0013406
   SRCGROUP P1ONIDLE L0013407 L0013408 L0013409 L0013410 L0013411 L0013412
   SRCGROUP P1ONIDLE L0013413 L0013414 L0013415 L0013416 L0013417 L0013418
   SRCGROUP P1ONIDLE L0013419 L0013420 L0013421 L0013422 L0013423 L0013424
   SRCGROUP P1ONIDLE L0013425 L0013426 L0013427 L0013428 L0013429 L0013430
   SRCGROUP P1ONIDLE L0013431 L0013432 L0013433 L0013434 L0013435 L0013436
   SRCGROUP P1ONIDLE L0013437 L0013438 L0013439 L0013440 L0013441 L0013442
   SRCGROUP P1ONIDLE L0013443 L0013444 L0013445 L0013446 L0013447 L0013448
   SRCGROUP P1ONIDLE L0013449 L0013450 L0013451 L0013452 L0013453 L0013454
   SRCGROUP P1GEN    PAREA1 PAREA2 PAREA3
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_P1Op_PM10_24HR.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
```

```
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST ONTARIOEUCLID_P1OP_PM10_24HR.AD\24H1GALL.PLT 31
   PLOTFILE 24 P1ONRUN 1ST ONTARIOEUCLID_P1OP_PM10_24HR.AD\24H1G001.PLT 32
   PLOTFILE 24 P1ONIDLE 1ST ONTARIOEUCLID_P1OP_PM10_24HR.AD\24H1G002.PLT 33
   PLOTFILE 24 P1GEN 1ST ONTARIOEUCLID_P1OP_PM10_24HR.AD\24H1G003.PLT 34
   PLOTFILE PERIOD ALL ONTARIOEUCLID_P1OP_PM10_24HR.AD\PE00GALL.PLT 35
   PLOTFILE PERIOD P1ONRUN ONTARIOEUCLID_P1OP_PM10_24HR.AD\PE00G001.PLT 36
   PLOTFILE PERIOD P1ONIDLE ONTARIOEUCLID_P1OP_PM10_24HR.AD\PE00G002.PLT 37
   PLOTFILE PERIOD P1GEN ONTARIOEUCLID_P1OP_PM10_24HR.AD\PE00G003.PLT 38
   SUMMFILE OntarioEuclid_P1Op_PM10_24HR.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    1421       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    1421       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                           ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       22:16:14

                                     PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
```

```
 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   366 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10

 **Model Calculates  1 Short Term Average(s) of:  24-HR
     and Calculates PERIOD Averages

 **This Run Includes:    366 Source(s);       4 Source Group(s); and     528
Receptor(s)

                with:      0 POINT(s), including
                           0 POINTCAP(s) and      0 POINTHOR(s)
                 and:    363 VOLUME source(s)
                 and:      3 AREA type source(s)
                 and:      0 LINE source(s)
                 and:      0 RLINE/RLINEXT source(s)
                 and:      0 OPENPIT source(s)
                 and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
```

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 198.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.4 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: OntarioEuclid_P1Op_PM10_24HR.err

**File for Summary of Results: OntarioEuclid_P1Op_PM10_24HR.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	ADJ_U* EMISSION RATE SCALAR VARY
L0013407	0	0.14638E-01	439987.2	3762795.0	219.4	3.11	6.98			

```
2.89     YES
 L0013408         0   0.14638E-01  440002.2 3762795.0   219.5     3.11     6.98
2.89     YES
 L0013409         0   0.14638E-01  440017.2 3762795.0   219.5     3.11     6.98
2.89     YES
 L0013410         0   0.16186E-01  439985.4 3762735.2   218.8     3.11     6.98
2.89     YES
 L0013411         0   0.16186E-01  440000.4 3762735.2   218.8     3.11     6.98
2.89     YES
 L0013412         0   0.16186E-01  440015.4 3762735.2   218.9     3.11     6.98
2.89     YES
 L0013413         0   0.12837E-01  439995.4 3762625.5   217.1     3.11     6.98
2.89     YES
 L0013414         0   0.12837E-01  439995.6 3762610.5   217.0     3.11     6.98
2.89     YES
 L0013415         0   0.12837E-01  439995.8 3762595.5   216.7     3.11     6.98
2.89     YES
 L0013416         0   0.18322E-01  440083.0 3762802.0   219.5     3.11     6.98
2.89     YES
 L0013417         0   0.18322E-01  440098.0 3762802.0   219.5     3.11     6.98
2.89     YES
 L0013418         0   0.18322E-01  440113.0 3762802.0   219.5     3.11     6.98
2.89     YES
 L0013419         0   0.23024E-01  440078.4 3762709.7   218.6     3.11     6.98
2.89     YES
 L0013420         0   0.23024E-01  440078.4 3762694.7   218.4     3.11     6.98
2.89     YES
 L0013421         0   0.23024E-01  440078.4 3762679.7   218.2     3.11     6.98
2.89     YES
 L0013422         0   0.23024E-01  440078.4 3762664.7   218.0     3.11     6.98
2.89     YES
 L0013423         0   0.32184E-01  440237.6 3762780.5   219.9     3.11     6.98
2.89     YES
 L0013424         0   0.32184E-01  440237.8 3762765.5   219.8     3.11     6.98
2.89     YES
 L0013425         0   0.32184E-01  440238.0 3762750.5   219.6     3.11     6.98
2.89     YES
 L0013426         0   0.32184E-01  440238.3 3762735.5   219.4     3.11     6.98
2.89     YES
 L0013427         0   0.32184E-01  440238.5 3762720.5   219.3     3.11     6.98
2.89     YES
 L0013428         0   0.23442E-01  440296.7 3762787.5   219.8     3.11     6.98
2.89     YES
 L0013429         0   0.23442E-01  440296.7 3762772.5   219.3     3.11     6.98
2.89     YES
 L0013430         0   0.23442E-01  440296.7 3762757.5   218.9     3.11     6.98
2.89     YES
 L0013431         0   0.23442E-01  440296.7 3762742.5   218.7     3.11     6.98
2.89     YES
 L0013432         0   0.24280E-01  440254.3 3762543.6   214.6     3.11     6.98
2.89     YES
```

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 L0013433         0   0.24280E-01  440269.3 3762543.6   214.3     3.11     6.98
2.89     YES
 L0013434         0   0.24280E-01  440284.3 3762543.6   214.4     3.11     6.98
2.89     YES
 L0013435         0   0.24280E-01  440299.3 3762543.6   214.4     3.11     6.98
2.89     YES
 L0013436         0   0.21768E-01  440060.9 3762439.7   215.4     3.11     6.98
2.89     YES
 L0013437         0   0.21768E-01  440075.9 3762439.8   215.3     3.11     6.98
2.89     YES
 L0013438         0   0.21768E-01  440090.9 3762440.0   215.2     3.11     6.98
2.89     YES
 L0013439         0   0.21768E-01  440105.9 3762440.1   215.1     3.11     6.98
2.89     YES
 L0013440         0   0.21768E-01  440120.9 3762440.2   215.1     3.11     6.98
2.89     YES
 L0013441         0   0.16760E-01  440059.2 3762374.7   214.4     3.11     6.98
2.89     YES
 L0013442         0   0.16760E-01  440074.2 3762375.0   214.4     3.11     6.98
2.89     YES
 L0013443         0   0.16760E-01  440089.2 3762375.2   214.4     3.11     6.98
2.89     YES
 L0013444         0   0.16760E-01  440104.2 3762375.5   214.3     3.11     6.98
2.89     YES
 L0013445         0   0.16760E-01  440119.2 3762375.7   214.3     3.11     6.98
2.89     YES
 L0013446         0   0.14233E-01  439974.8 3762482.3   214.9     0.52     6.98
0.48     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:16:14

                                   PAGE   3
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -

 L0013447         0   0.14233E-01  439986.0 3762472.3   214.9     0.52     6.98
0.48     YES
 L0013448         0   0.12566E-01  439977.6 3762351.5   213.4     3.11     6.98
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2.89     YES
 L0013449         0   0.12566E-01  439987.4 3762340.1   213.5     3.11     6.98
2.89     YES
 L0013450         0   0.24782E-01  440025.5 3762237.6   212.8     3.11     6.98
2.89     YES
 L0013451         0   0.24782E-01  440040.5 3762237.8   212.9     3.11     6.98
2.89     YES
 L0013452         0   0.24782E-01  440055.5 3762237.9   212.9     3.11     6.98
2.89     YES
 L0013453         0   0.24782E-01  440070.5 3762238.0   212.9     3.11     6.98
2.89     YES
 L0013454         0   0.24782E-01  440085.5 3762238.1   212.9     3.11     6.98
2.89     YES
 L0013092         0   0.31051E-02  440153.7 3762863.9   220.5     3.11     5.58
2.89     YES
 L0013093         0   0.31051E-02  440153.6 3762851.9   220.2     3.11     5.58
2.89     YES
 L0013094         0   0.31051E-02  440153.6 3762839.9   220.0     3.11     5.58
2.89     YES
 L0013095         0   0.31051E-02  440153.5 3762827.9   219.8     3.11     5.58
2.89     YES
 L0013096         0   0.31051E-02  440153.5 3762815.9   219.6     3.11     5.58
2.89     YES
 L0013097         0   0.31051E-02  440153.4 3762803.9   219.5     3.11     5.58
2.89     YES
 L0013098         0   0.31051E-02  440153.4 3762791.9   219.3     3.11     5.58
2.89     YES
 L0013099         0   0.31051E-02  440151.9 3762781.4   219.2     3.11     5.58
2.89     YES
 L0013100         0   0.31051E-02  440139.9 3762781.5   219.2     3.11     5.58
2.89     YES
 L0013101         0   0.31051E-02  440127.9 3762781.6   219.3     3.11     5.58
2.89     YES
 L0013102         0   0.31051E-02  440115.9 3762781.8   219.3     3.11     5.58
2.89     YES
 L0013103         0   0.31051E-02  440103.9 3762781.9   219.3     3.11     5.58
2.89     YES
 L0013104         0   0.31051E-02  440091.9 3762782.0   219.3     3.11     5.58
2.89     YES
 L0013105         0   0.31051E-02  440079.9 3762782.1   219.3     3.11     5.58
2.89     YES
 L0013106         0   0.31051E-02  440067.9 3762782.3   219.4     3.11     5.58
2.89     YES
 L0013107         0   0.31051E-02  440055.9 3762782.4   219.4     3.11     5.58
2.89     YES
 L0013108         0   0.31051E-02  440043.9 3762782.5   219.4     3.11     5.58
2.89     YES
 L0013109         0   0.31051E-02  440037.7 3762776.2   219.3     3.11     5.58
2.89     YES
 L0013110         0   0.31051E-02  440027.9 3762773.9   219.3     3.11     5.58
2.89     YES
```

```
 L0013111         0   0.31051E-02  440015.9 3762773.9   219.3     3.11     5.58
2.89     YES
 L0013112         0   0.31051E-02  440003.9 3762774.0   219.3     3.11     5.58
2.89     YES
 L0013113         0   0.31051E-02  439991.9 3762774.1   219.2     3.11     5.58
2.89     YES
 L0013114         0   0.31051E-02  439979.9 3762774.2   219.2     3.11     5.58
2.89     YES
 L0013115         0   0.31076E-02  440153.3 3762863.5   220.5     3.11     5.58
2.89     YES
 L0013116         0   0.31076E-02  440153.4 3762851.5   220.1     3.11     5.58
2.89     YES
 L0013117         0   0.31076E-02  440153.4 3762839.5   220.0     3.11     5.58
2.89     YES
 L0013118         0   0.31076E-02  440153.5 3762827.5   219.8     3.11     5.58
2.89     YES
 L0013119         0   0.31076E-02  440153.5 3762815.5   219.6     3.11     5.58
2.89     YES
 L0013120         0   0.31076E-02  440153.6 3762803.5   219.5     3.11     5.58
2.89     YES
 L0013121         0   0.31076E-02  440153.6 3762791.5   219.3     3.11     5.58
2.89     YES
 L0013122         0   0.31076E-02  440153.7 3762779.5   219.2     3.11     5.58
2.89     YES
 L0013123         0   0.31076E-02  440153.7 3762767.5   219.1     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:16:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0013124         0   0.31076E-02  440146.3 3762762.8   219.1     3.11     5.58
2.89     YES
 L0013125         0   0.31076E-02  440134.3 3762762.7   219.1     3.11     5.58
2.89     YES
 L0013126         0   0.31076E-02  440122.3 3762762.5   219.1     3.11     5.58
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2.89     YES
 L0013127         0   0.31076E-02  440110.3 3762762.4   219.1     3.11     5.58
2.89     YES
 L0013128         0   0.31076E-02  440098.3 3762762.3   219.1     3.11     5.58
2.89     YES
 L0013129         0   0.31076E-02  440086.3 3762762.1   219.2     3.11     5.58
2.89     YES
 L0013130         0   0.31076E-02  440074.4 3762762.0   219.2     3.11     5.58
2.89     YES
 L0013131         0   0.31076E-02  440062.4 3762761.9   219.2     3.11     5.58
2.89     YES
 L0013132         0   0.31076E-02  440050.4 3762761.7   219.2     3.11     5.58
2.89     YES
 L0013133         0   0.31076E-02  440038.7 3762761.3   219.2     3.11     5.58
2.89     YES
 L0013134         0   0.31076E-02  440038.0 3762749.3   219.1     3.11     5.58
2.89     YES
 L0013135         0   0.31076E-02  440027.8 3762747.2   219.0     3.11     5.58
2.89     YES
 L0013136         0   0.31076E-02  440015.8 3762747.0   219.0     3.11     5.58
2.89     YES
 L0013137         0   0.31076E-02  440003.8 3762746.9   219.0     3.11     5.58
2.89     YES
 L0013138         0   0.31076E-02  439991.8 3762746.7   219.0     3.11     5.58
2.89     YES
 L0013139         0   0.31076E-02  439979.8 3762746.5   218.9     3.11     5.58
2.89     YES
 L0013140         0   0.31663E-02  440152.5 3762864.3   220.5     3.11     5.58
2.89     YES
 L0013141         0   0.31663E-02  440152.6 3762852.3   220.2     3.11     5.58
2.89     YES
 L0013142         0   0.31663E-02  440152.6 3762840.3   220.0     3.11     5.58
2.89     YES
 L0013143         0   0.31663E-02  440152.7 3762828.3   219.8     3.11     5.58
2.89     YES
 L0013144         0   0.31663E-02  440152.7 3762816.3   219.6     3.11     5.58
2.89     YES
 L0013145         0   0.31663E-02  440152.8 3762804.3   219.5     3.11     5.58
2.89     YES
 L0013146         0   0.31663E-02  440152.9 3762792.3   219.3     3.11     5.58
2.89     YES
 L0013147         0   0.31663E-02  440152.9 3762780.3   219.2     3.11     5.58
2.89     YES
 L0013148         0   0.31663E-02  440153.0 3762768.3   219.1     3.11     5.58
2.89     YES
 L0013149         0   0.31663E-02  440153.1 3762756.3   219.1     3.11     5.58
2.89     YES
 L0013150         0   0.31663E-02  440153.1 3762744.3   219.0     3.11     5.58
2.89     YES
 L0013151         0   0.31663E-02  440153.2 3762732.3   219.0     3.11     5.58
2.89     YES
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 L0013152         0   0.31663E-02  440153.3 3762720.3   218.8     3.11     5.58
2.89     YES
 L0013153         0   0.31663E-02  440153.3 3762708.3   218.7     3.11     5.58
2.89     YES
 L0013154         0   0.31663E-02  440153.4 3762696.3   218.5     3.11     5.58
2.89     YES
 L0013155         0   0.31663E-02  440153.4 3762684.3   218.3     3.11     5.58
2.89     YES
 L0013156         0   0.31663E-02  440153.5 3762672.3   218.0     3.11     5.58
2.89     YES
 L0013157         0   0.31663E-02  440153.6 3762660.3   217.8     3.11     5.58
2.89     YES
 L0013158         0   0.31663E-02  440153.6 3762648.3   217.6     3.11     5.58
2.89     YES
 L0013159         0   0.31663E-02  440153.7 3762636.3   217.5     3.11     5.58
2.89     YES
 L0013160         0   0.31663E-02  440147.7 3762628.7   217.3     3.11     5.58
2.89     YES
 L0013161         0   0.31663E-02  440136.3 3762625.1   217.2     3.11     5.58
2.89     YES
 L0013162         0   0.31663E-02  440124.8 3762621.5   217.2     3.11     5.58
2.89     YES
 L0013163         0   0.31663E-02  440113.4 3762617.9   217.2     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0013164         0   0.31663E-02  440101.9 3762614.3   217.3     3.11     5.58
2.89     YES
 L0013165         0   0.31663E-02  440090.5 3762610.7   217.4     3.11     5.58
2.89     YES
 L0013166         0   0.31663E-02  440079.1 3762607.0   217.4     3.11     5.58
2.89     YES
 L0013167         0   0.31663E-02  440067.6 3762603.4   217.5     3.11     5.58
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2.89     YES
 L0013168         0   0.31663E-02  440056.2 3762599.8   217.5     3.11     5.58
2.89     YES
 L0013169         0   0.31663E-02  440046.9 3762599.9   217.6     3.11     5.58
2.89     YES
 L0013170         0   0.31663E-02  440044.2 3762611.6   217.8     3.11     5.58
2.89     YES
 L0013171         0   0.31663E-02  440032.3 3762611.8   217.7     3.11     5.58
2.89     YES
 L0013172         0   0.31663E-02  440020.3 3762611.8   217.4     3.11     5.58
2.89     YES
 L0013173         0   0.32546E-02  440152.5 3762863.9   220.5     3.11     5.58
2.89     YES
 L0013174         0   0.32546E-02  440152.5 3762851.9   220.2     3.11     5.58
2.89     YES
 L0013175         0   0.32546E-02  440152.6 3762839.9   220.0     3.11     5.58
2.89     YES
 L0013176         0   0.32546E-02  440152.7 3762827.9   219.8     3.11     5.58
2.89     YES
 L0013177         0   0.32546E-02  440152.7 3762815.9   219.6     3.11     5.58
2.89     YES
 L0013178         0   0.32546E-02  440152.8 3762803.9   219.5     3.11     5.58
2.89     YES
 L0013179         0   0.32546E-02  440152.8 3762791.9   219.3     3.11     5.58
2.89     YES
 L0013180         0   0.32546E-02  440150.2 3762782.6   219.2     3.11     5.58
2.89     YES
 L0013181         0   0.32546E-02  440138.2 3762782.7   219.3     3.11     5.58
2.89     YES
 L0013182         0   0.32546E-02  440126.2 3762782.8   219.3     3.11     5.58
2.89     YES
 L0013183         0   0.32546E-02  440114.2 3762782.8   219.3     3.11     5.58
2.89     YES
 L0013184         0   0.32546E-02  440102.2 3762782.9   219.3     3.11     5.58
2.89     YES
 L0013185         0   0.32546E-02  440090.2 3762783.0   219.3     3.11     5.58
2.89     YES
 L0013186         0   0.31416E-02  440152.9 3762864.8   220.5     3.11     5.58
2.89     YES
 L0013187         0   0.31416E-02  440153.1 3762852.8   220.2     3.11     5.58
2.89     YES
 L0013188         0   0.31416E-02  440153.2 3762840.8   220.0     3.11     5.58
2.89     YES
 L0013189         0   0.31416E-02  440153.3 3762828.8   219.8     3.11     5.58
2.89     YES
 L0013190         0   0.31416E-02  440153.5 3762816.8   219.6     3.11     5.58
2.89     YES
 L0013191         0   0.31416E-02  440153.6 3762804.8   219.5     3.11     5.58
2.89     YES
 L0013192         0   0.31416E-02  440153.7 3762792.8   219.3     3.11     5.58
2.89     YES
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 L0013193         0   0.31416E-02  440153.8 3762780.8   219.2     3.11     5.58
2.89     YES
 L0013194         0   0.31416E-02  440154.0 3762768.8   219.2     3.11     5.58
2.89     YES
 L0013195         0   0.31416E-02  440154.1 3762756.8   219.1     3.11     5.58
2.89     YES
 L0013196         0   0.31416E-02  440154.2 3762744.8   219.0     3.11     5.58
2.89     YES
 L0013197         0   0.31416E-02  440154.4 3762732.8   219.0     3.11     5.58
2.89     YES
 L0013198         0   0.31416E-02  440154.5 3762720.8   218.9     3.11     5.58
2.89     YES
 L0013199         0   0.31416E-02  440154.6 3762708.8   218.7     3.11     5.58
2.89     YES
 L0013200         0   0.31416E-02  440154.7 3762696.8   218.6     3.11     5.58
2.89     YES
 L0013201         0   0.31416E-02  440154.9 3762684.8   218.3     3.11     5.58
2.89     YES
 L0013202         0   0.31416E-02  440155.0 3762672.8   218.1     3.11     5.58
2.89     YES
 L0013203         0   0.31416E-02  440155.1 3762660.8   217.9     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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 L0013204         0   0.31416E-02  440155.3 3762648.8   217.7     3.11     5.58
2.89     YES
 L0013205         0   0.31416E-02  440155.4 3762636.8   217.5     3.11     5.58
2.89     YES
 L0013206         0   0.31416E-02  440145.2 3762631.7   217.3     3.11     5.58
2.89     YES
 L0013207         0   0.31416E-02  440134.0 3762627.4   217.2     3.11     5.58
2.89     YES
 L0013208         0   0.31416E-02  440122.9 3762623.0   217.2     3.11     5.58
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2.89     YES
 L0013209         0   0.31416E-02  440111.7 3762618.7   217.2     3.11     5.58
2.89     YES
 L0013210         0   0.31416E-02  440100.5 3762614.3   217.3     3.11     5.58
2.89     YES
 L0013211         0   0.31416E-02  440089.3 3762610.0   217.4     3.11     5.58
2.89     YES
 L0013212         0   0.31416E-02  440078.1 3762605.6   217.4     3.11     5.58
2.89     YES
 L0013213         0   0.31416E-02  440066.9 3762601.3   217.5     3.11     5.58
2.89     YES
 L0013214         0   0.31416E-02  440062.4 3762606.9   217.6     3.11     5.58
2.89     YES
 L0013215         0   0.31416E-02  440062.1 3762618.9   217.7     3.11     5.58
2.89     YES
 L0013216         0   0.31416E-02  440061.8 3762630.9   217.8     3.11     5.58
2.89     YES
 L0013217         0   0.31416E-02  440061.5 3762642.9   217.9     3.11     5.58
2.89     YES
 L0013218         0   0.31416E-02  440061.2 3762654.9   218.0     3.11     5.58
2.89     YES
 L0013219         0   0.31416E-02  440060.8 3762666.9   218.1     3.11     5.58
2.89     YES
 L0013220         0   0.31416E-02  440060.5 3762678.9   218.2     3.11     5.58
2.89     YES
 L0013221         0   0.31416E-02  440060.2 3762690.9   218.4     3.11     5.58
2.89     YES
 L0013222         0   0.31416E-02  440059.9 3762702.9   218.5     3.11     5.58
2.89     YES
 L0013223         0   0.31416E-02  440059.6 3762714.9   218.7     3.11     5.58
2.89     YES
 L0013224         0   0.31416E-02  440059.4 3762726.9   218.8     3.11     5.58
2.89     YES
 L0013225         0   0.31416E-02  440059.2 3762738.9   219.0     3.11     5.58
2.89     YES
 L0013226         0   0.31416E-02  440059.1 3762750.9   219.1     3.11     5.58
2.89     YES
 L0013227         0   0.31416E-02  440058.9 3762762.9   219.2     3.11     5.58
2.89     YES
 L0013228         0   0.31416E-02  440070.0 3762763.6   219.2     3.11     5.58
2.89     YES
 L0013229         0   0.31416E-02  440082.0 3762763.4   219.2     3.11     5.58
2.89     YES
 L0013230         0   0.31416E-02  440094.0 3762763.2   219.2     3.11     5.58
2.89     YES
 L0013231         0   0.31416E-02  440106.0 3762763.0   219.1     3.11     5.58
2.89     YES
 L0013232         0   0.31416E-02  440118.0 3762762.9   219.1     3.11     5.58
2.89     YES
 L0013233         0   0.31416E-02  440130.0 3762762.7   219.1     3.11     5.58
2.89     YES
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 L0013234   0   0.31416E-02 440142.0 3762762.5   219.1   3.11   5.58
2.89   YES
 L0013235   0   0.32008E-02 440363.3 3762685.4   218.7   0.52   5.58
0.48   YES
 L0013236   0   0.32008E-02 440351.7 3762682.3   218.7   0.52   5.58
0.48   YES
 L0013237   0   0.32008E-02 440340.0 3762679.3   218.5   0.52   5.58
0.48   YES
 L0013238   0   0.32008E-02 440328.4 3762676.3   218.2   0.52   5.58
0.48   YES
 L0013239   0   0.32008E-02 440316.8 3762673.2   218.0   0.52   5.58
0.48   YES
 L0013240   0   0.32008E-02 440305.2 3762670.2   217.9   0.52   5.58
0.48   YES
 L0013241   0   0.32008E-02 440293.6 3762667.2   217.9   0.52   5.58
0.48   YES
 L0013242   0   0.32008E-02 440282.0 3762664.1   218.2   0.52   5.58
0.48   YES
 L0013243   0   0.32008E-02 440270.4 3762661.1   218.5   0.52   5.58
0.48   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0013244   0   0.32008E-02 440258.8 3762658.1   218.4   0.52   5.58
0.48   YES
 L0013245   0   0.32008E-02 440257.8 3762669.4   218.6   0.52   5.58
0.48   YES
 L0013246   0   0.32008E-02 440257.4 3762681.4   218.8   0.52   5.58
0.48   YES
 L0013247   0   0.32008E-02 440257.0 3762693.4   218.9   0.52   5.58
0.48   YES
 L0013248   0   0.32008E-02 440256.6 3762705.4   219.0   0.52   5.58
0.48   YES
 L0013249   0   0.32008E-02 440256.1 3762717.3   219.2   0.52   5.58

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0.48     YES
 L0013250         0   0.32008E-02  440255.7 3762729.3   219.2     0.52     5.58
0.48     YES
 L0013251         0   0.32008E-02  440255.3 3762741.3   219.4     0.52     5.58
0.48     YES
 L0013252         0   0.32008E-02  440254.8 3762753.3   219.6     0.52     5.58
0.48     YES
 L0013253         0   0.32008E-02  440254.4 3762765.3   219.7     0.52     5.58
0.48     YES
 L0013254         0   0.32008E-02  440254.0 3762777.3   219.8     0.52     5.58
0.48     YES
 L0013255         0   0.32152E-02  440362.8 3762687.0   218.7     3.11     5.58
2.89     YES
 L0013256         0   0.32152E-02  440351.2 3762684.0   218.7     3.11     5.58
2.89     YES
 L0013257         0   0.32152E-02  440339.6 3762680.9   218.5     3.11     5.58
2.89     YES
 L0013258         0   0.32152E-02  440328.0 3762677.8   218.2     3.11     5.58
2.89     YES
 L0013259         0   0.32152E-02  440316.4 3762674.8   218.0     3.11     5.58
2.89     YES
 L0013260         0   0.32152E-02  440304.8 3762671.7   217.9     3.11     5.58
2.89     YES
 L0013261         0   0.32152E-02  440293.2 3762668.7   217.9     3.11     5.58
2.89     YES
 L0013262         0   0.32152E-02  440281.6 3762665.6   218.2     3.11     5.58
2.89     YES
 L0013263         0   0.32152E-02  440279.6 3762675.0   218.4     3.11     5.58
2.89     YES
 L0013264         0   0.32152E-02  440279.4 3762687.0   218.6     3.11     5.58
2.89     YES
 L0013265         0   0.32152E-02  440279.3 3762699.0   218.7     3.11     5.58
2.89     YES
 L0013266         0   0.32152E-02  440279.2 3762711.0   218.8     3.11     5.58
2.89     YES
 L0013267         0   0.32152E-02  440279.1 3762723.0   218.8     3.11     5.58
2.89     YES
 L0013268         0   0.32152E-02  440279.0 3762735.0   219.0     3.11     5.58
2.89     YES
 L0013269         0   0.32152E-02  440278.9 3762747.0   219.2     3.11     5.58
2.89     YES
 L0013270         0   0.32152E-02  440278.7 3762759.0   219.4     3.11     5.58
2.89     YES
 L0013271         0   0.32152E-02  440278.6 3762771.0   219.6     3.11     5.58
2.89     YES
 L0013272         0   0.32152E-02  440278.5 3762783.0   219.7     3.11     5.58
2.89     YES
 L0013273         0   0.31826E-02  439917.2 3762526.0   215.6     3.11     5.58
2.89     YES
 L0013274         0   0.31826E-02  439929.1 3762527.8   215.5     3.11     5.58
2.89     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
L0013275	0	0.31826E-02	439941.0	3762529.5	215.5	3.11	5.58	2.89	YES	
L0013276	0	0.31826E-02	439952.8	3762531.3	215.5	3.11	5.58	2.89	YES	
L0013277	0	0.31826E-02	439964.7	3762533.1	215.6	3.11	5.58	2.89	YES	
L0013278	0	0.31826E-02	439976.6	3762534.9	215.7	3.11	5.58	2.89	YES	
L0013279	0	0.31826E-02	439988.4	3762536.6	215.8	3.11	5.58	2.89	YES	
L0013280	0	0.31826E-02	440000.1	3762539.5	216.0	3.11	5.58	2.89	YES	
L0013281	0	0.31826E-02	440011.7	3762542.6	216.2	3.11	5.58	2.89	YES	
L0013282	0	0.31826E-02	440023.2	3762545.7	216.6	3.11	5.58	2.89	YES	
L0013283	0	0.31826E-02	440034.8	3762548.8	216.9	3.11	5.58	2.89	YES	
L0013284	0	0.31826E-02	440046.4	3762552.0	217.0	3.11	5.58	2.89	YES	
L0013285	0	0.31826E-02	440058.0	3762555.1	217.0	3.11	5.58	2.89	YES	
L0013286	0	0.31826E-02	440069.6	3762558.2	216.9	3.11	5.58	2.89	YES	
L0013287	0	0.31826E-02	440081.2	3762561.3	216.8	3.11	5.58	2.89	YES	
L0013288	0	0.31826E-02	440092.8	3762564.5	216.7	3.11	5.58	2.89	YES	
L0013289	0	0.31826E-02	440104.4	3762567.6	216.6	3.11	5.58	2.89	YES	
L0013290	0	0.31826E-02	440115.9	3762570.7	216.4	3.11	5.58			

```
2.89     YES
 L0013291         0   0.31826E-02  440127.5 3762573.8   216.5     3.11     5.58
2.89     YES
 L0013292         0   0.31826E-02  440139.1 3762577.0   216.5     3.11     5.58
2.89     YES
 L0013293         0   0.31826E-02  440150.7 3762580.1   216.7     3.11     5.58
2.89     YES
 L0013294         0   0.31826E-02  440162.3 3762583.2   217.0     3.11     5.58
2.89     YES
 L0013295         0   0.31826E-02  440173.9 3762586.3   217.2     3.11     5.58
2.89     YES
 L0013296         0   0.31826E-02  440185.5 3762589.4   217.3     3.11     5.58
2.89     YES
 L0013297         0   0.31826E-02  440197.0 3762592.6   217.5     3.11     5.58
2.89     YES
 L0013298         0   0.31826E-02  440208.6 3762595.7   217.6     3.11     5.58
2.89     YES
 L0013299         0   0.31826E-02  440220.2 3762598.8   217.6     3.11     5.58
2.89     YES
 L0013300         0   0.31826E-02  440231.8 3762601.9   217.6     3.11     5.58
2.89     YES
 L0013301         0   0.31826E-02  440243.4 3762605.1   217.5     3.11     5.58
2.89     YES
 L0013302         0   0.31826E-02  440255.0 3762608.2   217.4     3.11     5.58
2.89     YES
 L0013303         0   0.31826E-02  440266.6 3762611.3   217.3     3.11     5.58
2.89     YES
 L0013304         0   0.31826E-02  440278.1 3762614.4   217.2     3.11     5.58
2.89     YES
 L0013305         0   0.31826E-02  440289.7 3762617.6   217.2     3.11     5.58
2.89     YES
 L0013306         0   0.31826E-02  440301.3 3762620.7   217.2     3.11     5.58
2.89     YES
 L0013307         0   0.31826E-02  440312.9 3762623.8   217.4     3.11     5.58
2.89     YES
 L0013308         0   0.31826E-02  440324.5 3762626.9   217.6     3.11     5.58
2.89     YES
 L0013309         0   0.31826E-02  440336.1 3762630.0   217.9     3.11     5.58
2.89     YES
 L0013310         0   0.31826E-02  440347.7 3762633.2   218.2     3.11     5.58
2.89     YES
 L0013311         0   0.31826E-02  440359.3 3762636.1   218.3     3.11     5.58
2.89     YES
 L0013312         0   0.32493E-02  440364.6 3762566.9   217.2     3.11     5.58
2.89     YES
 L0013313         0   0.32493E-02  440352.6 3762566.5   216.8     3.11     5.58
2.89     YES
 L0013314         0   0.32493E-02  440340.6 3762566.2   216.4     3.11     5.58
2.89     YES
 L0013315         0   0.32493E-02  440328.6 3762565.8   215.9     3.11     5.58
2.89     YES
```

 L0013316   0   0.32493E-02 440316.6 3762565.4   215.6   3.11   5.58
2.89   YES
 L0013317   0   0.32493E-02 440304.6 3762565.0   215.6   3.11   5.58
2.89   YES
 L0013318   0   0.32493E-02 440292.6 3762564.7   215.6   3.11   5.58
2.89   YES
 L0013319   0   0.32493E-02 440280.6 3762564.3   215.6   3.11   5.58
2.89   YES
 L0013320   0   0.32493E-02 440268.9 3762562.1   215.5   3.11   5.58
2.89   YES
 L0013321   0   0.32493E-02 440257.4 3762558.6   215.5   3.11   5.58
2.89   YES
 L0013322   0   0.32138E-02 439917.8 3762403.9   214.1   3.11   5.58
2.89   YES
 L0013323   0   0.32138E-02 439929.8 3762404.4   213.8   3.11   5.58
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
 -
- - - - - - - - - - - - - - - - - - -

 L0013324   0   0.32138E-02 439941.8 3762404.9   213.6   3.11   5.58
2.89   YES
 L0013325   0   0.32138E-02 439953.7 3762405.3   213.5   3.11   5.58
2.89   YES
 L0013326   0   0.32138E-02 439965.7 3762405.8   213.5   3.11   5.58
2.89   YES
 L0013327   0   0.32138E-02 439977.7 3762406.3   213.8   3.11   5.58
2.89   YES
 L0013328   0   0.32138E-02 439989.7 3762406.8   214.2   3.11   5.58
2.89   YES
 L0013329   0   0.32138E-02 440001.7 3762407.3   214.7   3.11   5.58
2.89   YES
 L0013330   0   0.32138E-02 440009.6 3762412.2   215.0   3.11   5.58
2.89   YES
 L0013331   0   0.32138E-02 440017.2 3762417.2   215.2   3.11   5.58

2.89 YES
L0013332 0 0.32138E-02 440029.2 3762417.5 215.3 3.11 5.58
2.89 YES
L0013333 0 0.32138E-02 440041.2 3762417.8 215.3 3.11 5.58
2.89 YES
L0013334 0 0.32138E-02 440053.2 3762418.1 215.2 3.11 5.58
2.89 YES
L0013335 0 0.32138E-02 440065.2 3762418.4 215.1 3.11 5.58
2.89 YES
L0013336 0 0.32138E-02 440077.2 3762418.7 215.0 3.11 5.58
2.89 YES
L0013337 0 0.32138E-02 440089.2 3762419.0 215.0 3.11 5.58
2.89 YES
L0013338 0 0.32138E-02 440101.2 3762419.3 215.0 3.11 5.58
2.89 YES
L0013339 0 0.32138E-02 440113.2 3762419.7 215.0 3.11 5.58
2.89 YES
L0013340 0 0.31919E-02 439916.8 3762404.0 214.1 3.11 5.58
2.89 YES
L0013341 0 0.31919E-02 439928.8 3762404.6 213.9 3.11 5.58
2.89 YES
L0013342 0 0.31919E-02 439940.7 3762405.2 213.7 3.11 5.58
2.89 YES
L0013343 0 0.31919E-02 439952.7 3762405.9 213.5 3.11 5.58
2.89 YES
L0013344 0 0.31919E-02 439964.7 3762406.5 213.5 3.11 5.58
2.89 YES
L0013345 0 0.31919E-02 439976.7 3762407.2 213.8 3.11 5.58
2.89 YES
L0013346 0 0.31919E-02 439988.7 3762407.8 214.2 3.11 5.58
2.89 YES
L0013347 0 0.31919E-02 440000.7 3762408.5 214.7 3.11 5.58
2.89 YES
L0013348 0 0.31919E-02 440008.9 3762400.8 214.9 3.11 5.58
2.89 YES
L0013349 0 0.31919E-02 440018.7 3762396.1 215.1 3.11 5.58
2.89 YES
L0013350 0 0.31919E-02 440030.7 3762395.8 215.1 3.11 5.58
2.89 YES
L0013351 0 0.31919E-02 440042.7 3762395.6 215.1 3.11 5.58
2.89 YES
L0013352 0 0.31919E-02 440054.7 3762395.3 214.9 3.11 5.58
2.89 YES
L0013353 0 0.31919E-02 440066.7 3762395.0 214.8 3.11 5.58
2.89 YES
L0013354 0 0.31919E-02 440078.7 3762394.8 214.7 3.11 5.58
2.89 YES
L0013355 0 0.31919E-02 440090.7 3762394.5 214.7 3.11 5.58
2.89 YES
L0013356 0 0.31919E-02 440102.7 3762394.2 214.7 3.11 5.58
2.89 YES

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 L0013357         0   0.31919E-02  440114.7 3762394.0   214.7     3.11     5.58
2.89     YES
 L0013358         0   0.31220E-02  439917.3 3762405.5   214.1     3.11     5.58
2.89     YES
 L0013359         0   0.31220E-02  439929.3 3762405.7   213.9     3.11     5.58
2.89     YES
 L0013360         0   0.31220E-02  439941.3 3762406.0   213.7     3.11     5.58
2.89     YES
 L0013361         0   0.31220E-02  439953.3 3762406.3   213.5     3.11     5.58
2.89     YES
 L0013362         0   0.31220E-02  439965.3 3762406.5   213.5     3.11     5.58
2.89     YES
 L0013363         0   0.31220E-02  439977.3 3762406.8   213.8     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                        *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)              BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0013364         0   0.31220E-02  439989.3 3762407.0   214.2     3.11     5.58
2.89     YES
 L0013365         0   0.31220E-02  440001.3 3762407.3   214.7     3.11     5.58
2.89     YES
 L0013366         0   0.31220E-02  440007.4 3762413.3   214.9     3.11     5.58
2.89     YES
 L0013367         0   0.31220E-02  440007.4 3762425.3   215.0     3.11     5.58
2.89     YES
 L0013368         0   0.31220E-02  440007.3 3762437.3   215.0     3.11     5.58
2.89     YES
 L0013369         0   0.31220E-02  440007.3 3762449.3   215.0     3.11     5.58
2.89     YES
 L0013370         0   0.31220E-02  440007.2 3762461.3   215.1     3.11     5.58
2.89     YES
 L0013371         0   0.31220E-02  440007.1 3762473.3   215.2     3.11     5.58
2.89     YES
 L0013372         0   0.31220E-02  440007.1 3762485.3   215.3     3.11     5.58
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2.89     YES
 L0013373         0   0.31220E-02  440007.0 3762497.3   215.5     3.11     5.58
2.89     YES
 L0013374         0   0.31220E-02  440002.0 3762499.7   215.5     3.11     5.58
2.89     YES
 L0013375         0   0.31220E-02  439992.1 3762492.9   215.2     3.11     5.58
2.89     YES
 L0013376         0   0.31220E-02  439982.2 3762486.1   215.0     3.11     5.58
2.89     YES
 L0013377         0   0.32136E-02  439917.7 3762405.4   214.1     3.11     5.58
2.89     YES
 L0013378         0   0.32136E-02  439929.7 3762405.6   213.8     3.11     5.58
2.89     YES
 L0013379         0   0.32136E-02  439941.7 3762405.7   213.7     3.11     5.58
2.89     YES
 L0013380         0   0.32136E-02  439953.7 3762405.9   213.5     3.11     5.58
2.89     YES
 L0013381         0   0.32136E-02  439965.7 3762406.1   213.5     3.11     5.58
2.89     YES
 L0013382         0   0.32136E-02  439977.7 3762406.2   213.8     3.11     5.58
2.89     YES
 L0013383         0   0.32136E-02  439989.7 3762406.4   214.2     3.11     5.58
2.89     YES
 L0013384         0   0.32136E-02  440001.7 3762406.6   214.7     3.11     5.58
2.89     YES
 L0013385         0   0.32136E-02  440005.2 3762397.8   214.7     3.11     5.58
2.89     YES
 L0013386         0   0.32136E-02  440005.6 3762385.8   214.6     3.11     5.58
2.89     YES
 L0013387         0   0.32136E-02  440006.0 3762373.8   214.3     3.11     5.58
2.89     YES
 L0013388         0   0.32136E-02  440006.4 3762361.8   214.1     3.11     5.58
2.89     YES
 L0013389         0   0.32136E-02  440006.8 3762349.8   213.9     3.11     5.58
2.89     YES
 L0013390         0   0.32136E-02  440007.2 3762337.8   213.8     3.11     5.58
2.89     YES
 L0013391         0   0.32136E-02  440001.1 3762331.0   213.6     3.11     5.58
2.89     YES
 L0013392         0   0.32136E-02  439989.4 3762328.5   213.5     3.11     5.58
2.89     YES
 L0013393         0   0.32583E-02  439918.6 3762260.0   212.2     3.11     5.58
2.89     YES
 L0013394         0   0.32583E-02  439930.6 3762259.9   212.4     3.11     5.58
2.89     YES
 L0013395         0   0.32583E-02  439942.6 3762259.8   212.4     3.11     5.58
2.89     YES
 L0013396         0   0.32583E-02  439954.6 3762259.7   212.4     3.11     5.58
2.89     YES
 L0013397         0   0.32583E-02  439966.6 3762259.6   212.4     3.11     5.58
2.89     YES
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 L0013398         0   0.32583E-02  439978.6 3762259.5   212.5     3.11     5.58
2.89     YES
 L0013399         0   0.32583E-02  439990.6 3762259.3   212.6     3.11     5.58
2.89     YES
 L0013400         0   0.32583E-02  440002.6 3762259.2   212.7     3.11     5.58
2.89     YES
 L0013401         0   0.32583E-02  440014.6 3762259.1   212.8     3.11     5.58
2.89     YES
 L0013402         0   0.32583E-02  440026.6 3762259.0   212.9     3.11     5.58
2.89     YES
 L0013403         0   0.32583E-02  440038.6 3762258.9   213.0     3.11     5.58
2.89     YES
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                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                     BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 L0013404         0   0.32583E-02  440050.6 3762258.8   213.0     3.11     5.58
2.89     YES
 L0013405         0   0.32583E-02  440062.6 3762258.6   213.1     3.11     5.58
2.89     YES
 L0013406         0   0.32583E-02  440074.6 3762258.5   213.1     3.11     5.58
2.89     YES
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                                                   *** AREAPOLY SOURCE DATA ***

               NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER
 INIT.   URBAN  EMISSION RATE
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   SOURCE       PART.  (GRAMS/SEC       X        Y      ELEV.    HEIGHT  OF VERTS.
  SZ     SOURCE  SCALAR VARY
     ID         CATS.   /METER**2)   (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 PAREA1           0   0.77462E-05  439975.9 3762818.3   219.6     5.00       5
  0.00     YES   HRDOW7
 PAREA2           0   0.84798E-05  439957.5 3762492.3   215.0     5.00       9
  0.00     YES   HRDOW7
 PAREA3           0   0.40539E-05  439958.9 3762265.3   212.5     5.00       5
  0.00     YES   HRDOW7
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                 SOURCE IDs
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  P1ONRUN    L0013092    , L0013093    , L0013094    , L0013095    , L0013096    ,
L0013097    , L0013098    , L0013099    ,

             L0013100    , L0013101    , L0013102    , L0013103    , L0013104    ,
L0013105    , L0013106    , L0013107    ,

             L0013108    , L0013109    , L0013110    , L0013111    , L0013112    ,
L0013113    , L0013114    , L0013115    ,

             L0013116    , L0013117    , L0013118    , L0013119    , L0013120    ,
L0013121    , L0013122    , L0013123    ,

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L0013129    , L0013130    , L0013131    ,

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L0013137    , L0013138    , L0013139    ,

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L0013185    , L0013186    , L0013187    ,

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L0013193    , L0013194    , L0013195    ,

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L0013201    , L0013202    , L0013203    ,

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L0013209    , L0013210    , L0013211    ,

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L0013217    , L0013218    , L0013219    ,

             L0013220    , L0013221    , L0013222    , L0013223    , L0013224    ,
L0013225    , L0013226    , L0013227    ,

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L0013233    , L0013234    , L0013235    ,

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L0013241    , L0013242    , L0013243    ,

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L0013249    , L0013250    , L0013251    ,
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                          SOURCE IDs
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             L0013252    , L0013253    , L0013254    , L0013255    , L0013256    ,
L0013257    , L0013258    , L0013259    ,

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L0013265    , L0013266    , L0013267    ,

             L0013268    , L0013269    , L0013270    , L0013271    , L0013272    ,
L0013273    , L0013274    , L0013275    ,

             L0013276    , L0013277    , L0013278    , L0013279    , L0013280    ,
L0013281    , L0013282    , L0013283    ,

             L0013284    , L0013285    , L0013286    , L0013287    , L0013288    ,
L0013289    , L0013290    , L0013291    ,

             L0013292    , L0013293    , L0013294    , L0013295    , L0013296    ,
L0013297    , L0013298    , L0013299    ,

             L0013300    , L0013301    , L0013302    , L0013303    , L0013304    ,
L0013305    , L0013306    , L0013307    ,

             L0013308    , L0013309    , L0013310    , L0013311    , L0013312    ,
L0013313    , L0013314    , L0013315    ,

             L0013316    , L0013317    , L0013318    , L0013319    , L0013320    ,
L0013321    , L0013322    , L0013323    ,

             L0013324    , L0013325    , L0013326    , L0013327    , L0013328    ,
L0013329    , L0013330    , L0013331    ,

             L0013332    , L0013333    , L0013334    , L0013335    , L0013336    ,
L0013337    , L0013338    , L0013339    ,

             L0013340    , L0013341    , L0013342    , L0013343    , L0013344    ,
L0013345    , L0013346    , L0013347    ,

             L0013348    , L0013349    , L0013350    , L0013351    , L0013352    ,
L0013353    , L0013354    , L0013355    ,

             L0013356    , L0013357    , L0013358    , L0013359    , L0013360    ,
L0013361    , L0013362    , L0013363    ,

             L0013364    , L0013365    , L0013366    , L0013367    , L0013368    ,
L0013369    , L0013370    , L0013371    ,

             L0013372    , L0013373    , L0013374    , L0013375    , L0013376    ,
L0013377    , L0013378    , L0013379    ,

             L0013380    , L0013381    , L0013382    , L0013383    , L0013384    ,
L0013385    , L0013386    , L0013387    ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
P1ONIDLE	L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , L0013435 , L0013436 , L0013437 , L0013438 , L0013439 , L0013440 , L0013441 , L0013442 , L0013443 , L0013444 , L0013445 , L0013446 , L0013447 , L0013448 , L0013449 , L0013450 , L0013451 , L0013452 , L0013453 , L0013454 ,
P1GEN	PAREA1 , PAREA2 , PAREA3 ,
ALL	L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 ,

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0013148 , L0013149 , L0013150 , L0013151 , L0013152 , L0013153 , L0013154 , L0013155 ,
	L0013156 , L0013157 , L0013158 , L0013159 , L0013160 , L0013161 , L0013162 , L0013163 ,
	L0013164 , L0013165 , L0013166 , L0013167 , L0013168 ,

L0013169 , L0013170 , L0013171 ,

L0013172 , L0013173 , L0013174 , L0013175 , L0013176 ,
L0013177 , L0013178 , L0013179 ,

L0013180 , L0013181 , L0013182 , L0013183 , L0013184 ,
L0013185 , L0013186 , L0013187 ,

L0013188 , L0013189 , L0013190 , L0013191 , L0013192 ,
L0013193 , L0013194 , L0013195 ,

L0013196 , L0013197 , L0013198 , L0013199 , L0013200 ,
L0013201 , L0013202 , L0013203 ,

L0013204 , L0013205 , L0013206 , L0013207 , L0013208 ,
L0013209 , L0013210 , L0013211 ,

L0013212 , L0013213 , L0013214 , L0013215 , L0013216 ,
L0013217 , L0013218 , L0013219 ,

L0013220 , L0013221 , L0013222 , L0013223 , L0013224 ,
L0013225 , L0013226 , L0013227 ,

L0013228 , L0013229 , L0013230 , L0013231 , L0013232 ,
L0013233 , L0013234 , L0013235 ,

L0013236 , L0013237 , L0013238 , L0013239 , L0013240 ,
L0013241 , L0013242 , L0013243 ,

L0013244 , L0013245 , L0013246 , L0013247 , L0013248 ,
L0013249 , L0013250 , L0013251 ,

L0013252 , L0013253 , L0013254 , L0013255 , L0013256 ,
L0013257 , L0013258 , L0013259 ,

L0013260 , L0013261 , L0013262 , L0013263 , L0013264 ,
L0013265 , L0013266 , L0013267 ,

L0013268 , L0013269 , L0013270 , L0013271 , L0013272 ,
L0013273 , L0013274 , L0013275 ,

L0013276 , L0013277 , L0013278 , L0013279 , L0013280 ,
L0013281 , L0013282 , L0013283 ,

L0013284 , L0013285 , L0013286 , L0013287 , L0013288 ,
L0013289 , L0013290 , L0013291 ,

L0013292 , L0013293 , L0013294 , L0013295 , L0013296 ,
L0013297 , L0013298 , L0013299 ,

L0013300 , L0013301 , L0013302 , L0013303 , L0013304 ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

L0013308   , L0013309   , L0013310   , L0013311   , L0013312   ,
L0013313   , L0013314   , L0013315   ,

L0013316   , L0013317   , L0013318   , L0013319   , L0013320   ,
L0013321   , L0013322   , L0013323   ,

L0013324   , L0013325   , L0013326   , L0013327   , L0013328   ,
L0013329   , L0013330   , L0013331   ,

L0013332   , L0013333   , L0013334   , L0013335   , L0013336   ,
L0013337   , L0013338   , L0013339   ,

L0013340   , L0013341   , L0013342   , L0013343   , L0013344   ,
L0013345   , L0013346   , L0013347   ,

L0013348   , L0013349   , L0013350   , L0013351   , L0013352   ,
L0013353   , L0013354   , L0013355   ,

L0013356   , L0013357   , L0013358   , L0013359   , L0013360   ,
L0013361   , L0013362   , L0013363   ,

L0013364   , L0013365   , L0013366   , L0013367   , L0013368   ,
L0013369   , L0013370   , L0013371   ,

L0013372   , L0013373   , L0013374   , L0013375   , L0013376   ,
L0013377   , L0013378   , L0013379   ,

L0013380   , L0013381   , L0013382   , L0013383   , L0013384   ,
L0013385   , L0013386   , L0013387   ,

L0013388   , L0013389   , L0013390   , L0013391   , L0013392   ,
L0013393   , L0013394   , L0013395   ,

L0013396   , L0013397   , L0013398   , L0013399   , L0013400   ,
L0013401   , L0013402   , L0013403   ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2035210.	L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 ,
		L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 ,
		L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 ,
		L0013431 , L0013432 , L0013433 , L0013434 , L0013435 , L0013436 , L0013437 , L0013438 ,
		L0013439 , L0013440 , L0013441 , L0013442 , L0013443 , L0013444 , L0013445 , L0013446 ,
		L0013447 , L0013448 , L0013449 , L0013450 , L0013451 , L0013452 , L0013453 , L0013454 ,
		L0013092 , L0013093 , L0013094 , L0013095 , L0013096 , L0013097 , L0013098 , L0013099 ,
		L0013100 , L0013101 , L0013102 , L0013103 , L0013104 , L0013105 , L0013106 , L0013107 ,
		L0013108 , L0013109 , L0013110 , L0013111 , L0013112 , L0013113 , L0013114 , L0013115 ,
		L0013116 , L0013117 , L0013118 , L0013119 , L0013120 , L0013121 , L0013122 , L0013123 ,
		L0013124 , L0013125 , L0013126 , L0013127 , L0013128 ,

L0013129   , L0013130   , L0013131   ,

             L0013132   , L0013133   , L0013134   , L0013135   , L0013136   ,
L0013137   , L0013138   , L0013139   ,

             L0013140   , L0013141   , L0013142   , L0013143   , L0013144   ,
L0013145   , L0013146   , L0013147   ,

             L0013148   , L0013149   , L0013150   , L0013151   , L0013152   ,
L0013153   , L0013154   , L0013155   ,

             L0013156   , L0013157   , L0013158   , L0013159   , L0013160   ,
L0013161   , L0013162   , L0013163   ,

             L0013164   , L0013165   , L0013166   , L0013167   , L0013168   ,
L0013169   , L0013170   , L0013171   ,

             L0013172   , L0013173   , L0013174   , L0013175   , L0013176   ,
L0013177   , L0013178   , L0013179   ,

             L0013180   , L0013181   , L0013182   , L0013183   , L0013184   ,
L0013185   , L0013186   , L0013187   ,

             L0013188   , L0013189   , L0013190   , L0013191   , L0013192   ,
L0013193   , L0013194   , L0013195   ,

             L0013196   , L0013197   , L0013198   , L0013199   , L0013200   ,
L0013201   , L0013202   , L0013203   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

             L0013204   , L0013205   , L0013206   , L0013207   , L0013208   ,
L0013209   , L0013210   , L0013211   ,

             L0013212   , L0013213   , L0013214   , L0013215   , L0013216   ,
L0013217   , L0013218   , L0013219   ,

             L0013220   , L0013221   , L0013222   , L0013223   , L0013224   ,

L0013225 , L0013226 , L0013227 ,

L0013228 , L0013229 , L0013230 , L0013231 , L0013232 ,
L0013233 , L0013234 , L0013235 ,

L0013236 , L0013237 , L0013238 , L0013239 , L0013240 ,
L0013241 , L0013242 , L0013243 ,

L0013244 , L0013245 , L0013246 , L0013247 , L0013248 ,
L0013249 , L0013250 , L0013251 ,

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L0013257 , L0013258 , L0013259 ,

L0013260 , L0013261 , L0013262 , L0013263 , L0013264 ,
L0013265 , L0013266 , L0013267 ,

L0013268 , L0013269 , L0013270 , L0013271 , L0013272 ,
L0013273 , L0013274 , L0013275 ,

L0013276 , L0013277 , L0013278 , L0013279 , L0013280 ,
L0013281 , L0013282 , L0013283 ,

L0013284 , L0013285 , L0013286 , L0013287 , L0013288 ,
L0013289 , L0013290 , L0013291 ,

L0013292 , L0013293 , L0013294 , L0013295 , L0013296 ,
L0013297 , L0013298 , L0013299 ,

L0013300 , L0013301 , L0013302 , L0013303 , L0013304 ,
L0013305 , L0013306 , L0013307 ,

L0013308 , L0013309 , L0013310 , L0013311 , L0013312 ,
L0013313 , L0013314 , L0013315 ,

L0013316 , L0013317 , L0013318 , L0013319 , L0013320 ,
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L0013324 , L0013325 , L0013326 , L0013327 , L0013328 ,
L0013329 , L0013330 , L0013331 ,

L0013332 , L0013333 , L0013334 , L0013335 , L0013336 ,
L0013337 , L0013338 , L0013339 ,

L0013340 , L0013341 , L0013342 , L0013343 , L0013344 ,
L0013345 , L0013346 , L0013347 ,

L0013348 , L0013349 , L0013350 , L0013351 , L0013352 ,
L0013353 , L0013354 , L0013355 ,

L0013356 , L0013357 , L0013358 , L0013359 , L0013360 ,

L0013361   , L0013362   , L0013363   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

             L0013364   , L0013365   , L0013366   , L0013367   , L0013368   ,
L0013369   , L0013370   , L0013371   ,

             L0013372   , L0013373   , L0013374   , L0013375   , L0013376   ,
L0013377   , L0013378   , L0013379   ,

             L0013380   , L0013381   , L0013382   , L0013383   , L0013384   ,
L0013385   , L0013386   , L0013387   ,

             L0013388   , L0013389   , L0013390   , L0013391   , L0013392   ,
L0013393   , L0013394   , L0013395   ,

             L0013396   , L0013397   , L0013398   , L0013399   , L0013400   ,
L0013401   , L0013402   , L0013403   ,

             L0013404   , L0013405   , L0013406   , PAREA1   , PAREA2   ,
PAREA3   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = PAREA1   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                  DAY OF WEEK = MONDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .1000E+01
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↑ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.1000E+01	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA3 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .1000E+01
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = TUESDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = WEDNESDY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = THURSDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00

9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = FRIDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SATURDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

DAY OF WEEK = SUNDAY

1 .0000E+00 2 .0000E+00 3 .0000E+00 4 .0000E+00 5 .0000E+00
6 .0000E+00 7 .0000E+00 8 .0000E+00
9 .0000E+00 10 .0000E+00 11 .0000E+00 12 .0000E+00 13 .0000E+00
14 .0000E+00 15 .0000E+00 16 .0000E+00
17 .0000E+00 18 .0000E+00 19 .0000E+00 20 .0000E+00 21 .0000E+00
22 .0000E+00 23 .0000E+00 24 .0000E+00

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(440407.9, 3761497.8, 205.4, 205.4, 0.0); (439943.4, 3761716.3, 206.8, 206.8, 0.0);
(439170.2, 3763092.5, 220.1, 220.1, 0.0); (439220.2, 3763092.5, 220.7, 220.7, 0.0);
(439270.2, 3763092.5, 220.6, 220.6, 0.0); (439320.2, 3763092.5, 220.9, 220.9, 0.0);
(439370.2, 3763092.5, 221.0, 221.0, 0.0); (439420.2, 3763092.5, 220.7, 220.7, 0.0);
(439470.2, 3763092.5, 220.4, 220.4, 0.0); (439520.2, 3763092.5, 220.4, 220.4, 0.0);
(439570.2, 3763092.5, 220.4, 220.4, 0.0); (439620.2, 3763092.5, 220.9, 220.9, 0.0);
(439670.2, 3763092.5, 221.6, 221.6, 0.0); (439720.2, 3763092.5, 221.9, 221.9, 0.0);

```
     ( 439770.2, 3763092.5,     222.1,     222.1,       0.0);         ( 439820.2,
3763092.5,     222.3,     222.3,       0.0);
     ( 439870.2, 3763092.5,     222.6,     222.6,       0.0);         ( 439170.2,
3763142.5,     220.8,     220.8,       0.0);
     ( 439220.2, 3763142.5,     221.2,     221.2,       0.0);         ( 439270.2,
3763142.5,     221.0,     221.0,       0.0);
     ( 439320.2, 3763142.5,     221.3,     221.3,       0.0);         ( 439370.2,
3763142.5,     221.3,     221.3,       0.0);
     ( 439420.2, 3763142.5,     221.0,     221.0,       0.0);         ( 439470.2,
3763142.5,     221.3,     221.3,       0.0);
     ( 439520.2, 3763142.5,     221.5,     221.5,       0.0);         ( 439570.2,
3763142.5,     221.2,     221.2,       0.0);
     ( 439620.2, 3763142.5,     221.3,     221.3,       0.0);         ( 439670.2,
3763142.5,     222.0,     222.0,       0.0);
     ( 439720.2, 3763142.5,     222.3,     222.3,       0.0);         ( 439770.2,
3763142.5,     222.6,     222.6,       0.0);
     ( 439820.2, 3763142.5,     222.9,     222.9,       0.0);         ( 439870.2,
3763142.5,     223.2,     223.2,       0.0);
     ( 439170.2, 3763192.5,     221.4,     221.4,       0.0);         ( 439220.2,
3763192.5,     221.6,     221.6,       0.0);
     ( 439270.2, 3763192.5,     221.3,     221.3,       0.0);         ( 439320.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439370.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439420.2,
3763192.5,     221.3,     221.3,       0.0);
     ( 439470.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439520.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439570.2, 3763192.5,     221.8,     221.8,       0.0);         ( 439620.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439670.2, 3763192.5,     222.5,     222.5,       0.0);         ( 439720.2,
3763192.5,     223.2,     223.2,       0.0);
     ( 439770.2, 3763192.5,     223.5,     223.5,       0.0);         ( 439820.2,
3763192.5,     223.7,     223.7,       0.0);
     ( 439870.2, 3763192.5,     223.9,     223.9,       0.0);         ( 439170.2,
3763242.5,     222.1,     222.1,       0.0);
     ( 439220.2, 3763242.5,     222.1,     222.1,       0.0);         ( 439270.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439320.2, 3763242.5,     222.0,     222.0,       0.0);         ( 439370.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439420.2, 3763242.5,     221.9,     221.9,       0.0);         ( 439470.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439520.2, 3763242.5,     222.3,     222.3,       0.0);         ( 439570.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439620.2, 3763242.5,     222.2,     222.2,       0.0);         ( 439670.2,
3763242.5,     222.8,     222.8,       0.0);
     ( 439720.2, 3763242.5,     223.5,     223.5,       0.0);         ( 439770.2,
3763242.5,     224.0,     224.0,       0.0);
     ( 439820.2, 3763242.5,     224.3,     224.3,       0.0);         ( 439870.2,
3763242.5,     224.5,     224.5,       0.0);
     ( 439170.2, 3763292.5,     222.9,     222.9,       0.0);         ( 439220.2,
3763292.5,     223.4,     223.4,       0.0);
     ( 439270.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439320.2,
```

3763292.5,   223.0,   223.0,   0.0);
     (439370.2, 3763292.5,   222.5,   222.5,   0.0);   (439420.2,
3763292.5,   222.9,   222.9,   0.0);
     (439470.2, 3763292.5,   223.2,   223.2,   0.0);   (439520.2,
3763292.5,   223.5,   223.5,   0.0);
     (439570.2, 3763292.5,   223.0,   223.0,   0.0);   (439620.2,
3763292.5,   223.1,   223.1,   0.0);
     (439670.2, 3763292.5,   223.3,   223.3,   0.0);   (439720.2,
3763292.5,   224.0,   224.0,   0.0);
     (439770.2, 3763292.5,   224.8,   224.8,   0.0);   (439820.2,
3763292.5,   225.1,   225.1,   0.0);
     (439870.2, 3763292.5,   225.1,   225.1,   0.0);   (439170.2,
3763342.5,   223.6,   223.6,   0.0);
     (439220.2, 3763342.5,   224.0,   224.0,   0.0);   (439270.2,
3763342.5,   223.5,   223.5,   0.0);
     (439320.2, 3763342.5,   223.4,   223.4,   0.0);   (439370.2,
3763342.5,   223.0,   223.0,   0.0);
     (439420.2, 3763342.5,   223.3,   223.3,   0.0);   (439470.2,
3763342.5,   223.6,   223.6,   0.0);
     (439520.2, 3763342.5,   223.9,   223.9,   0.0);   (439570.2,
3763342.5,   223.7,   223.7,   0.0);
     (439620.2, 3763342.5,   223.5,   223.5,   0.0);   (439670.2,
3763342.5,   223.9,   223.9,   0.0);
     (439720.2, 3763342.5,   224.4,   224.4,   0.0);   (439770.2,
3763342.5,   225.3,   225.3,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439820.2, 3763342.5,   225.6,   225.6,   0.0);   (439870.2,
3763342.5,   225.8,   225.8,   0.0);
     (439170.2, 3763392.5,   224.3,   224.3,   0.0);   (439220.2,
3763392.5,   224.5,   224.5,   0.0);
     (439270.2, 3763392.5,   223.9,   223.9,   0.0);   (439320.2,
3763392.5,   224.3,   224.3,   0.0);
     (439370.2, 3763392.5,   224.0,   224.0,   0.0);   (439420.2,
3763392.5,   224.4,   224.4,   0.0);
     (439470.2, 3763392.5,   224.7,   224.7,   0.0);   (439520.2,
3763392.5,   224.3,   224.3,   0.0);
     (439570.2, 3763392.5,   224.2,   224.2,   0.0);   (439620.2,
3763392.5,   224.0,   224.0,   0.0);
     (439670.2, 3763392.5,   224.5,   224.5,   0.0);   (439720.2,
3763392.5,   224.8,   224.8,   0.0);

```
     ( 439770.2, 3763392.5,     225.6,     225.6,       0.0);         ( 439820.2,
3763392.5,     226.0,     226.0,       0.0);
     ( 439870.2, 3763392.5,     226.3,     226.3,       0.0);         ( 439170.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439220.2, 3763442.5,     225.1,     225.1,       0.0);         ( 439270.2,
3763442.5,     224.5,     224.5,       0.0);
     ( 439320.2, 3763442.5,     224.5,     224.5,       0.0);         ( 439370.2,
3763442.5,     224.6,     224.6,       0.0);
     ( 439420.2, 3763442.5,     224.7,     224.7,       0.0);         ( 439470.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439520.2, 3763442.5,     224.7,     224.7,       0.0);         ( 439570.2,
3763442.5,     224.7,     224.7,       0.0);
     ( 439620.2, 3763442.5,     224.6,     224.6,       0.0);         ( 439670.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439720.2, 3763442.5,     225.4,     225.4,       0.0);         ( 439770.2,
3763442.5,     226.1,     226.1,       0.0);
     ( 439820.2, 3763442.5,     226.5,     226.5,       0.0);         ( 439870.2,
3763442.5,     226.7,     226.7,       0.0);
     ( 439203.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439253.2,
3762911.2,     218.6,     218.6,       0.0);
     ( 439303.2, 3762911.2,     218.7,     218.7,       0.0);         ( 439353.2,
3762911.2,     217.9,     217.9,       0.0);
     ( 439403.2, 3762911.2,     218.0,     218.0,       0.0);         ( 439453.2,
3762911.2,     218.3,     218.3,       0.0);
     ( 439503.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439553.2,
3762911.2,     218.5,     218.5,       0.0);
     ( 439203.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439253.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439303.2, 3762961.2,     219.2,     219.2,       0.0);         ( 439353.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439403.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439453.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439503.2, 3762961.2,     218.7,     218.7,       0.0);         ( 439553.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439203.2, 3763011.2,     219.6,     219.6,       0.0);         ( 439253.2,
3763011.2,     219.7,     219.7,       0.0);
     ( 439303.2, 3763011.2,     219.9,     219.9,       0.0);         ( 439353.2,
3763011.2,     220.0,     220.0,       0.0);
     ( 439403.2, 3763011.2,     219.2,     219.2,       0.0);         ( 439453.2,
3763011.2,     219.4,     219.4,       0.0);
     ( 439503.2, 3763011.2,     219.1,     219.1,       0.0);         ( 439553.2,
3763011.2,     219.5,     219.5,       0.0);
     ( 439203.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439253.2,
3763061.2,     220.5,     220.5,       0.0);
     ( 439303.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439353.2,
3763061.2,     220.8,     220.8,       0.0);
     ( 439403.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439453.2,
3763061.2,     220.4,     220.4,       0.0);
     ( 439503.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439553.2,
3763061.2,     220.3,     220.3,       0.0);
     ( 439196.0, 3762392.5,     212.6,     212.6,       0.0);         ( 439246.0,
```

3762392.5,   212.7,   212.7,   0.0);
     (439296.0, 3762392.5,   212.7,   212.7,   0.0);   (439346.0,
3762392.5,   212.6,   212.6,   0.0);
     (439396.0, 3762392.5,   212.5,   212.5,   0.0);   (439446.0,
3762392.5,   212.2,   212.2,   0.0);
     (439496.0, 3762392.5,   212.2,   212.2,   0.0);   (439546.0,
3762392.5,   212.5,   212.5,   0.0);
     (439196.0, 3762442.5,   213.1,   213.1,   0.0);   (439246.0,
3762442.5,   213.1,   213.1,   0.0);
     (439296.0, 3762442.5,   213.5,   213.5,   0.0);   (439346.0,
3762442.5,   213.5,   213.5,   0.0);
     (439396.0, 3762442.5,   213.5,   213.5,   0.0);   (439446.0,
3762442.5,   213.5,   213.5,   0.0);
     (439496.0, 3762442.5,   213.5,   213.5,   0.0);   (439546.0,
3762442.5,   213.4,   213.4,   0.0);
     (439196.0, 3762492.5,   213.6,   213.6,   0.0);   (439246.0,
3762492.5,   213.5,   213.5,   0.0);
     (439296.0, 3762492.5,   213.7,   213.7,   0.0);   (439346.0,
3762492.5,   214.0,   214.0,   0.0);
     (439396.0, 3762492.5,   213.9,   213.9,   0.0);   (439446.0,
3762492.5,   213.9,   213.9,   0.0);
     (439496.0, 3762492.5,   214.2,   214.2,   0.0);   (439546.0,
3762492.5,   214.4,   214.4,   0.0);
     (439196.0, 3762542.5,   214.1,   214.1,   0.0);   (439246.0,
3762542.5,   213.8,   213.8,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439296.0, 3762542.5,   214.0,   214.0,   0.0);   (439346.0,
3762542.5,   214.0,   214.0,   0.0);
     (439396.0, 3762542.5,   214.2,   214.2,   0.0);   (439446.0,
3762542.5,   214.2,   214.2,   0.0);
     (439496.0, 3762542.5,   214.7,   214.7,   0.0);   (439546.0,
3762542.5,   214.7,   214.7,   0.0);
     (439196.0, 3762592.5,   214.6,   214.6,   0.0);   (439246.0,
3762592.5,   214.8,   214.8,   0.0);
     (439296.0, 3762592.5,   214.7,   214.7,   0.0);   (439346.0,
3762592.5,   214.4,   214.4,   0.0);
     (439396.0, 3762592.5,   214.4,   214.4,   0.0);   (439446.0,
3762592.5,   214.5,   214.5,   0.0);
     (439496.0, 3762592.5,   215.1,   215.1,   0.0);   (439546.0,
3762592.5,   215.2,   215.2,   0.0);

```
     ( 439196.0, 3762642.5,     215.1,     215.1,       0.0);         ( 439246.0,
3762642.5,     215.4,     215.4,       0.0);
     ( 439296.0, 3762642.5,     214.9,     214.9,       0.0);         ( 439346.0,
3762642.5,     214.4,     214.4,       0.0);
     ( 439396.0, 3762642.5,     214.6,     214.6,       0.0);         ( 439446.0,
3762642.5,     214.8,     214.8,       0.0);
     ( 439496.0, 3762642.5,     215.5,     215.5,       0.0);         ( 439546.0,
3762642.5,     215.6,     215.6,       0.0);
     ( 439196.0, 3762692.5,     215.8,     215.8,       0.0);         ( 439246.0,
3762692.5,     215.8,     215.8,       0.0);
     ( 439296.0, 3762692.5,     215.9,     215.9,       0.0);         ( 439346.0,
3762692.5,     215.7,     215.7,       0.0);
     ( 439396.0, 3762692.5,     215.1,     215.1,       0.0);         ( 439446.0,
3762692.5,     215.3,     215.3,       0.0);
     ( 439496.0, 3762692.5,     215.9,     215.9,       0.0);         ( 439546.0,
3762692.5,     216.1,     216.1,       0.0);
     ( 439196.0, 3762742.5,     216.5,     216.5,       0.0);         ( 439246.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439296.0, 3762742.5,     216.3,     216.3,       0.0);         ( 439346.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439396.0, 3762742.5,     216.0,     216.0,       0.0);         ( 439446.0,
3762742.5,     216.0,     216.0,       0.0);
     ( 439496.0, 3762742.5,     216.7,     216.7,       0.0);         ( 439546.0,
3762742.5,     216.8,     216.8,       0.0);
     ( 439196.0, 3762792.5,     217.1,     217.1,       0.0);         ( 439246.0,
3762792.5,     216.4,     216.4,       0.0);
     ( 439296.0, 3762792.5,     216.8,     216.8,       0.0);         ( 439346.0,
3762792.5,     216.8,     216.8,       0.0);
     ( 439396.0, 3762792.5,     216.9,     216.9,       0.0);         ( 439446.0,
3762792.5,     216.7,     216.7,       0.0);
     ( 439496.0, 3762792.5,     217.3,     217.3,       0.0);         ( 439546.0,
3762792.5,     217.4,     217.4,       0.0);
     ( 439196.0, 3762842.5,     217.7,     217.7,       0.0);         ( 439246.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439296.0, 3762842.5,     217.0,     217.0,       0.0);         ( 439346.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439396.0, 3762842.5,     217.2,     217.2,       0.0);         ( 439446.0,
3762842.5,     217.3,     217.3,       0.0);
     ( 439496.0, 3762842.5,     217.9,     217.9,       0.0);         ( 439546.0,
3762842.5,     218.0,     218.0,       0.0);
     ( 439573.3, 3762470.5,     213.7,     213.7,       0.0);         ( 439623.3,
3762470.5,     214.1,     214.1,       0.0);
     ( 439673.3, 3762470.5,     214.2,     214.2,       0.0);         ( 439723.3,
3762470.5,     214.3,     214.3,       0.0);
     ( 439773.3, 3762470.5,     214.4,     214.4,       0.0);         ( 439823.3,
3762470.5,     214.4,     214.4,       0.0);
     ( 439873.3, 3762470.5,     214.7,     214.7,       0.0);         ( 439573.3,
3762520.5,     214.3,     214.3,       0.0);
     ( 439623.3, 3762520.5,     214.5,     214.5,       0.0);         ( 439673.3,
3762520.5,     214.8,     214.8,       0.0);
     ( 439723.3, 3762520.5,     215.1,     215.1,       0.0);         ( 439773.3,
```

3762520.5,   215.1,   215.1,   0.0);
     (439823.3, 3762520.5,   214.8,   214.8,   0.0);   (439873.3,
3762520.5,   215.2,   215.2,   0.0);
     (439573.3, 3762570.5,   214.8,   214.8,   0.0);   (439623.3,
3762570.5,   215.0,   215.0,   0.0);
     (439673.3, 3762570.5,   215.4,   215.4,   0.0);   (439723.3,
3762570.5,   215.5,   215.5,   0.0);
     (439773.3, 3762570.5,   215.5,   215.5,   0.0);   (439823.3,
3762570.5,   215.3,   215.3,   0.0);
     (439873.3, 3762570.5,   215.9,   215.9,   0.0);   (439573.3,
3762620.5,   215.3,   215.3,   0.0);
     (439623.3, 3762620.5,   215.6,   215.6,   0.0);   (439673.3,
3762620.5,   215.7,   215.7,   0.0);
     (439723.3, 3762620.5,   215.9,   215.9,   0.0);   (439773.3,
3762620.5,   215.8,   215.8,   0.0);
     (439823.3, 3762620.5,   215.9,   215.9,   0.0);   (439873.3,
3762620.5,   216.5,   216.5,   0.0);
     (439573.3, 3762670.5,   215.8,   215.8,   0.0);   (439623.3,
3762670.5,   216.5,   216.5,   0.0);
     (439673.3, 3762670.5,   216.5,   216.5,   0.0);   (439723.3,
3762670.5,   216.6,   216.6,   0.0);
     (439773.3, 3762670.5,   216.8,   216.8,   0.0);   (439823.3,
3762670.5,   216.9,   216.9,   0.0);
     (439873.3, 3762670.5,   217.1,   217.1,   0.0);   (439152.3,
3761448.9,   203.3,   203.3,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439202.3, 3761448.9,   202.5,   202.5,   0.0);   (439252.3,
3761448.9,   202.5,   202.5,   0.0);
     (439302.3, 3761448.9,   202.4,   202.4,   0.0);   (439352.3,
3761448.9,   202.5,   202.5,   0.0);
     (439402.3, 3761448.9,   202.6,   202.6,   0.0);   (439452.3,
3761448.9,   202.6,   202.6,   0.0);
     (439502.3, 3761448.9,   203.1,   203.1,   0.0);   (439552.3,
3761448.9,   203.1,   203.1,   0.0);
     (439152.3, 3761498.9,   204.0,   204.0,   0.0);   (439202.3,
3761498.9,   203.9,   203.9,   0.0);
     (439252.3, 3761498.9,   204.3,   204.3,   0.0);   (439302.3,
3761498.9,   203.6,   203.6,   0.0);
     (439352.3, 3761498.9,   203.2,   203.2,   0.0);   (439402.3,
3761498.9,   202.9,   202.9,   0.0);

```
     ( 439452.3, 3761498.9,     202.7,     202.7,       0.0);         ( 439502.3,
3761498.9,     203.3,     203.3,       0.0);
     ( 439552.3, 3761498.9,     203.5,     203.5,       0.0);         ( 439152.3,
3761548.9,     204.7,     204.7,       0.0);
     ( 439202.3, 3761548.9,     204.3,     204.3,       0.0);         ( 439252.3,
3761548.9,     204.4,     204.4,       0.0);
     ( 439302.3, 3761548.9,     203.7,     203.7,       0.0);         ( 439352.3,
3761548.9,     203.0,     203.0,       0.0);
     ( 439402.3, 3761548.9,     203.1,     203.1,       0.0);         ( 439452.3,
3761548.9,     203.0,     203.0,       0.0);
     ( 439502.3, 3761548.9,     203.2,     203.2,       0.0);         ( 439552.3,
3761548.9,     203.6,     203.6,       0.0);
     ( 439152.3, 3761598.9,     205.2,     205.2,       0.0);         ( 439202.3,
3761598.9,     204.5,     204.5,       0.0);
     ( 439252.3, 3761598.9,     204.5,     204.5,       0.0);         ( 439302.3,
3761598.9,     204.2,     204.2,       0.0);
     ( 439352.3, 3761598.9,     203.5,     203.5,       0.0);         ( 439402.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439452.3, 3761598.9,     203.8,     203.8,       0.0);         ( 439502.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439552.3, 3761598.9,     204.0,     204.0,       0.0);         ( 439152.3,
3761648.9,     205.5,     205.5,       0.0);
     ( 439202.3, 3761648.9,     205.1,     205.1,       0.0);         ( 439252.3,
3761648.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761648.9,     204.9,     204.9,       0.0);         ( 439352.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439402.3, 3761648.9,     204.5,     204.5,       0.0);         ( 439452.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439502.3, 3761648.9,     204.7,     204.7,       0.0);         ( 439552.3,
3761648.9,     204.9,     204.9,       0.0);
     ( 439152.3, 3761698.9,     206.0,     206.0,       0.0);         ( 439202.3,
3761698.9,     205.4,     205.4,       0.0);
     ( 439252.3, 3761698.9,     204.9,     204.9,       0.0);         ( 439302.3,
3761698.9,     205.0,     205.0,       0.0);
     ( 439352.3, 3761698.9,     205.2,     205.2,       0.0);         ( 439402.3,
3761698.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761698.9,     204.8,     204.8,       0.0);         ( 439502.3,
3761698.9,     205.3,     205.3,       0.0);
     ( 439552.3, 3761698.9,     205.7,     205.7,       0.0);         ( 439152.3,
3761748.9,     206.1,     206.1,       0.0);
     ( 439202.3, 3761748.9,     205.8,     205.8,       0.0);         ( 439252.3,
3761748.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761748.9,     205.2,     205.2,       0.0);         ( 439352.3,
3761748.9,     205.2,     205.2,       0.0);
     ( 439402.3, 3761748.9,     205.4,     205.4,       0.0);         ( 439452.3,
3761748.9,     205.1,     205.1,       0.0);
     ( 439502.3, 3761748.9,     204.8,     204.8,       0.0);         ( 439552.3,
3761748.9,     205.5,     205.5,       0.0);
     ( 439152.3, 3761798.9,     206.4,     206.4,       0.0);         ( 439202.3,
3761798.9,     206.4,     206.4,       0.0);
     ( 439252.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439302.3,
```

3761798.9,   206.2,   206.2,   0.0);
     (439352.3, 3761798.9,   205.6,   205.6,   0.0);   (439402.3,
3761798.9,   205.5,   205.5,   0.0);
     (439452.3, 3761798.9,   205.9,   205.9,   0.0);   (439502.3,
3761798.9,   205.2,   205.2,   0.0);
     (439552.3, 3761798.9,   205.9,   205.9,   0.0);   (439152.3,
3761848.9,   206.9,   206.9,   0.0);
     (439202.3, 3761848.9,   206.7,   206.7,   0.0);   (439252.3,
3761848.9,   206.1,   206.1,   0.0);
     (439302.3, 3761848.9,   206.2,   206.2,   0.0);   (439352.3,
3761848.9,   205.6,   205.6,   0.0);
     (439402.3, 3761848.9,   206.3,   206.3,   0.0);   (439452.3,
3761848.9,   206.3,   206.3,   0.0);
     (439502.3, 3761848.9,   205.5,   205.5,   0.0);   (439552.3,
3761848.9,   206.3,   206.3,   0.0);
     (439152.3, 3761898.9,   207.6,   207.6,   0.0);   (439202.3,
3761898.9,   207.2,   207.2,   0.0);
     (439252.3, 3761898.9,   206.5,   206.5,   0.0);   (439302.3,
3761898.9,   207.1,   207.1,   0.0);
     (439352.3, 3761898.9,   206.9,   206.9,   0.0);   (439402.3,
3761898.9,   206.7,   206.7,   0.0);
     (439452.3, 3761898.9,   207.4,   207.4,   0.0);   (439502.3,
3761898.9,   207.4,   207.4,   0.0);
     (439552.3, 3761898.9,   207.6,   207.6,   0.0);   (439152.3,
3761948.9,   208.1,   208.1,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439202.3, 3761948.9,   207.6,   207.6,   0.0);   (439252.3,
3761948.9,   206.9,   206.9,   0.0);
     (439302.3, 3761948.9,   207.6,   207.6,   0.0);   (439352.3,
3761948.9,   207.7,   207.7,   0.0);
     (439402.3, 3761948.9,   207.3,   207.3,   0.0);   (439452.3,
3761948.9,   208.1,   208.1,   0.0);
     (439502.3, 3761948.9,   208.5,   208.5,   0.0);   (439552.3,
3761948.9,   208.8,   208.8,   0.0);
     (439152.3, 3761998.9,   208.6,   208.6,   0.0);   (439202.3,
3761998.9,   207.9,   207.9,   0.0);
     (439252.3, 3761998.9,   207.2,   207.2,   0.0);   (439302.3,
3761998.9,   208.0,   208.0,   0.0);
     (439352.3, 3761998.9,   208.5,   208.5,   0.0);   (439402.3,
3761998.9,   208.0,   208.0,   0.0);

```
     ( 439452.3, 3761998.9,     208.2,     208.2,       0.0);         ( 439502.3,
3761998.9,     208.5,     208.5,       0.0);
     ( 439552.3, 3761998.9,     208.9,     208.9,       0.0);         ( 439152.3,
3762048.9,     209.2,     209.2,       0.0);
     ( 439202.3, 3762048.9,     209.1,     209.1,       0.0);         ( 439252.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439302.3, 3762048.9,     209.0,     209.0,       0.0);         ( 439352.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439402.3, 3762048.9,     208.7,     208.7,       0.0);         ( 439452.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439502.3, 3762048.9,     209.2,     209.2,       0.0);         ( 439552.3,
3762048.9,     209.4,     209.4,       0.0);
     ( 439616.6, 3761420.6,     202.8,     202.8,       0.0);         ( 439666.6,
3761420.6,     203.2,     203.2,       0.0);
     ( 439716.6, 3761420.6,     203.4,     203.4,       0.0);         ( 439766.6,
3761420.6,     203.6,     203.6,       0.0);
     ( 439816.6, 3761420.6,     203.5,     203.5,       0.0);         ( 439866.6,
3761420.6,     203.8,     203.8,       0.0);
     ( 439616.6, 3761470.6,     203.2,     203.2,       0.0);         ( 439666.6,
3761470.6,     203.4,     203.4,       0.0);
     ( 439716.6, 3761470.6,     203.6,     203.6,       0.0);         ( 439766.6,
3761470.6,     203.8,     203.8,       0.0);
     ( 439816.6, 3761470.6,     203.7,     203.7,       0.0);         ( 439866.6,
3761470.6,     204.3,     204.3,       0.0);
     ( 439616.6, 3761520.6,     203.5,     203.5,       0.0);         ( 439666.6,
3761520.6,     203.7,     203.7,       0.0);
     ( 439716.6, 3761520.6,     204.0,     204.0,       0.0);         ( 439766.6,
3761520.6,     204.4,     204.4,       0.0);
     ( 439816.6, 3761520.6,     204.5,     204.5,       0.0);         ( 439866.6,
3761520.6,     204.9,     204.9,       0.0);
     ( 439616.6, 3761570.6,     204.1,     204.1,       0.0);         ( 439666.6,
3761570.6,     204.4,     204.4,       0.0);
     ( 439716.6, 3761570.6,     204.7,     204.7,       0.0);         ( 439766.6,
3761570.6,     205.2,     205.2,       0.0);
     ( 439816.6, 3761570.6,     205.4,     205.4,       0.0);         ( 439866.6,
3761570.6,     205.5,     205.5,       0.0);
     ( 440451.1, 3762893.8,     220.7,     220.7,       0.0);         ( 440501.1,
3762893.8,     220.6,     220.6,       0.0);
     ( 440551.1, 3762893.8,     220.3,     220.3,       0.0);         ( 440601.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440651.1, 3762893.8,     220.5,     220.5,       0.0);         ( 440701.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440751.1, 3762893.8,     220.2,     220.2,       0.0);         ( 440801.1,
3762893.8,     220.2,     220.2,       0.0);
     ( 440851.1, 3762893.8,     219.8,     219.8,       0.0);         ( 440451.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 440501.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440551.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440601.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440651.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440701.1, 3762943.8,     221.0,     221.0,       0.0);         ( 440751.1,
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3762943.8,   220.5,   220.5,   0.0);
     (440801.1, 3762943.8,   220.8,   220.8,   0.0);   (440851.1,
3762943.8,   221.2,   221.2,   0.0);
     (441116.7, 3763135.3,   223.3,   223.3,   0.0);   (441166.7,
3763135.3,   222.9,   222.9,   0.0);
     (441116.7, 3763185.3,   223.9,   223.9,   0.0);   (441166.7,
3763185.3,   223.5,   223.5,   0.0);
     (441116.7, 3763235.3,   224.2,   224.2,   0.0);   (441166.7,
3763235.3,   223.9,   223.9,   0.0);
     (441116.7, 3763285.3,   225.2,   225.2,   0.0);   (441166.7,
3763285.3,   224.6,   224.6,   0.0);
     (441116.7, 3763335.3,   225.8,   225.8,   0.0);   (441166.7,
3763335.3,   225.4,   225.4,   0.0);
     (441116.7, 3763385.3,   226.3,   226.3,   0.0);   (441166.7,
3763385.3,   226.3,   226.3,   0.0);
     (441116.7, 3763435.3,   227.0,   227.0,   0.0);   (441166.7,
3763435.3,   226.8,   226.8,   0.0);
     (440433.4, 3762815.1,   219.6,   219.6,   0.0);   (440483.4,
3762815.1,   219.4,   219.4,   0.0);
     (440533.4, 3762815.1,   219.2,   219.2,   0.0);   (440583.4,
3762815.1,   219.4,   219.4,   0.0);
     (440633.4, 3762815.1,   219.3,   219.3,   0.0);   (440683.4,
3762815.1,   219.2,   219.2,   0.0);
     (440733.4, 3762815.1,   219.4,   219.4,   0.0);   (440783.4,
3762815.1,   219.2,   219.2,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (440833.4, 3762815.1,   219.4,   219.4,   0.0);   (440883.4,
3762815.1,   219.5,   219.5,   0.0);
     (440933.4, 3762815.1,   219.0,   219.0,   0.0);   (440983.4,
3762815.1,   218.8,   218.8,   0.0);
     (440433.4, 3762865.1,   220.3,   220.3,   0.0);   (440483.4,
3762865.1,   220.1,   220.1,   0.0);
     (440533.4, 3762865.1,   219.9,   219.9,   0.0);   (440583.4,
3762865.1,   219.9,   219.9,   0.0);
     (440633.4, 3762865.1,   220.0,   220.0,   0.0);   (440683.4,
3762865.1,   219.9,   219.9,   0.0);
     (440733.4, 3762865.1,   220.0,   220.0,   0.0);   (440783.4,
3762865.1,   219.9,   219.9,   0.0);
     (440833.4, 3762865.1,   219.6,   219.6,   0.0);   (440883.4,
3762865.1,   219.3,   219.3,   0.0);

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     ( 440933.4, 3762865.1,     219.0,     219.0,       0.0);         ( 440983.4,
3762865.1,     218.9,     218.9,       0.0);
     ( 441118.3, 3762686.0,     217.2,     217.2,       0.0);         ( 441168.3,
3762686.0,     217.0,     217.0,       0.0);
     ( 441118.3, 3762736.0,     218.2,     218.2,       0.0);         ( 441168.3,
3762736.0,     217.5,     217.5,       0.0);
     ( 441118.3, 3762786.0,     218.3,     218.3,       0.0);         ( 441168.3,
3762786.0,     218.0,     218.0,       0.0);
     ( 441118.3, 3762836.0,     218.4,     218.4,       0.0);         ( 441168.3,
3762836.0,     218.3,     218.3,       0.0);
     ( 440411.7, 3762093.4,     211.8,     211.8,       0.0);         ( 440461.7,
3762093.4,     211.7,     211.7,       0.0);
     ( 440511.7, 3762093.4,     211.8,     211.8,       0.0);         ( 440561.7,
3762093.4,     211.8,     211.8,       0.0);
     ( 440611.7, 3762093.4,     211.6,     211.6,       0.0);         ( 440411.7,
3762143.4,     212.7,     212.7,       0.0);
     ( 440461.7, 3762143.4,     212.3,     212.3,       0.0);         ( 440511.7,
3762143.4,     212.5,     212.5,       0.0);
     ( 440561.7, 3762143.4,     212.2,     212.2,       0.0);         ( 440611.7,
3762143.4,     212.4,     212.4,       0.0);
     ( 440406.6, 3762008.9,     210.5,     210.5,       0.0);         ( 440456.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440506.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440556.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440606.6, 3762008.9,     210.7,     210.7,       0.0);         ( 440656.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440706.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440756.6,
3762008.9,     211.0,     211.0,       0.0);
     ( 440806.6, 3762008.9,     210.4,     210.4,       0.0);         ( 440856.6,
3762008.9,     210.6,     210.6,       0.0);
     ( 440906.6, 3762008.9,     211.3,     211.3,       0.0);         ( 440956.6,
3762008.9,     211.2,     211.2,       0.0);
     ( 441006.6, 3762008.9,     211.1,     211.1,       0.0);         ( 441056.6,
3762008.9,     210.5,     210.5,       0.0);
     ( 441106.6, 3762008.9,     210.4,     210.4,       0.0);         ( 441156.6,
3762008.9,     210.4,     210.4,       0.0);
     ( 440406.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440456.6,
3762058.9,     211.2,     211.2,       0.0);
     ( 440506.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440556.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 440606.6, 3762058.9,     211.2,     211.2,       0.0);         ( 440656.6,
3762058.9,     211.4,     211.4,       0.0);
     ( 440706.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440756.6,
3762058.9,     212.0,     212.0,       0.0);
     ( 440806.6, 3762058.9,     211.4,     211.4,       0.0);         ( 440856.6,
3762058.9,     211.5,     211.5,       0.0);
     ( 440906.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440956.6,
3762058.9,     211.7,     211.7,       0.0);
     ( 441006.6, 3762058.9,     211.5,     211.5,       0.0);         ( 441056.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 441106.6, 3762058.9,     211.1,     211.1,       0.0);         ( 441156.6,
```

3762058.9,   211.1,   211.1,   0.0);
     (440191.4, 3762138.4,   211.5,   211.5,   0.0);   (440241.4,
3762138.4,   211.7,   211.7,   0.0);
     (440291.4, 3762138.4,   212.0,   212.0,   0.0);   (440341.4,
3762138.4,   211.6,   211.6,   0.0);
     (440191.4, 3762188.4,   212.6,   212.6,   0.0);   (440241.4,
3762188.4,   211.8,   211.8,   0.0);
     (440291.4, 3762188.4,   213.1,   213.1,   0.0);   (440341.4,
3762188.4,   213.1,   213.1,   0.0);
     (440191.4, 3762238.4,   213.2,   213.2,   0.0);   (440241.4,
3762238.4,   212.4,   212.4,   0.0);
     (440291.4, 3762238.4,   213.8,   213.8,   0.0);   (440341.4,
3762238.4,   213.6,   213.6,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** METEOROLOGICAL DAYS SELECTED FOR
PROCESSING ***
                                                              (1=YES; 0=NO)

           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1

                NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON
WHAT IS INCLUDED IN THE DATA FILE.

                                   *** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED
CATEGORIES ***
                                                        (METERS/SEC)

                                                 1.54,   3.09,   5.14,   8.23,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74						

```
0.21    1.23   91.    7.9  296.4    2.0
 12 01 01   1 12  110.8  0.197  1.018  0.005  338.  209.     -6.1  0.09   0.74
0.20    1.60   90.    7.9  299.9    2.0
 12 01 01   1 13  110.5  0.229  1.184  0.005  534.  262.     -9.6  0.09   0.74
0.20    1.98   92.    7.9  302.0    2.0
 12 01 01   1 14   94.6  0.185  1.215  0.005  674.  191.     -5.9  0.09   0.74
0.21    1.50   73.    7.9  303.1    2.0
 12 01 01   1 15   68.6  0.187  1.184  0.005  858.  194.     -8.4  0.09   0.74
0.25    1.59   64.    7.9  303.1    2.0
 12 01 01   1 16   24.9  0.255  0.862  0.005  911.  308.    -58.8  0.09   0.74
0.34    2.61   92.    7.9  300.4    2.0
 12 01 01   1 17  -13.7  0.168 -9.000 -9.000 -999.  168.     31.1  0.09   0.74
0.62    1.98  107.    7.9  295.4    2.0
 12 01 01   1 18  -26.7  0.279 -9.000 -9.000 -999.  354.     85.6  0.09   0.74
1.00    3.22  134.    7.9  291.4    2.0
 12 01 01   1 19   -8.0  0.118 -9.000 -9.000 -999.  120.     18.2  0.09   0.74
1.00    1.43   37.    7.9  290.4    2.0
 12 01 01   1 20   -7.7  0.115 -9.000 -9.000 -999.   94.     17.6  0.09   0.74
1.00    1.40   49.    7.9  287.0    2.0
 12 01 01   1 21   -9.7  0.130 -9.000 -9.000 -999.  113.     20.2  0.09   0.74
1.00    1.57   26.    7.9  288.8    2.0
 12 01 01   1 22   -4.8  0.090 -9.000 -9.000 -999.   65.     13.6  0.09   0.74
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:16:14

                                   PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
                                   INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
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, L0013118   , L0013119   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.96271	439943.36	3761716.33	1.53963
439170.17	3763092.51	0.96577	439220.17	3763092.51	1.02499
439270.17	3763092.51	1.10241	439320.17	3763092.51	1.18295
439370.17	3763092.51	1.27606	439420.17	3763092.51	1.38452
439470.17	3763092.51	1.51432	439520.17	3763092.51	1.64838
439570.17	3763092.51	1.79826	439620.17	3763092.51	1.94965
439670.17	3763092.51	2.12235	439720.17	3763092.51	2.32408
439770.17	3763092.51	2.55362	439820.17	3763092.51	2.79414
439870.17	3763092.51	3.04907	439170.17	3763142.51	0.91874
439220.17	3763142.51	0.97779	439270.17	3763142.51	1.04875
439320.17	3763142.51	1.12106	439370.17	3763142.51	1.20511
439420.17	3763142.51	1.30238	439470.17	3763142.51	1.40160
439520.17	3763142.51	1.51209	439570.17	3763142.51	1.64442
439620.17	3763142.51	1.78303	439670.17	3763142.51	1.92010
439720.17	3763142.51	2.06946	439770.17	3763142.51	2.23205
439820.17	3763142.51	2.40252	439870.17	3763142.51	2.58374
439170.17	3763192.51	0.87694	439220.17	3763192.51	0.93151
439270.17	3763192.51	0.99718	439320.17	3763192.51	1.05797
439370.17	3763192.51	1.13421	439420.17	3763192.51	1.22252
439470.17	3763192.51	1.30525	439520.17		

```
3763192.51        1.40168
         439570.17    3763192.51        1.50877                        439620.17
3763192.51        1.62622
         439670.17    3763192.51        1.71996                        439720.17
3763192.51        1.81680
         439770.17    3763192.51        1.93512                        439820.17
3763192.51        2.06706
         439870.17    3763192.51        2.19918                        439170.17
3763242.51        0.83283
         439220.17    3763242.51        0.88376                        439270.17
3763242.51        0.94279
         439320.17    3763242.51        1.00198                        439370.17
3763242.51        1.06858
         439420.17    3763242.51        1.14072                        439470.17
3763242.51        1.20775
         439520.17    3763242.51        1.28888                        439570.17
3763242.51        1.38000
         439620.17    3763242.51        1.47833                        439670.17
3763242.51        1.55250
         439720.17    3763242.51        1.62733                        439770.17
3763242.51        1.70816
         439820.17    3763242.51        1.73383                        439870.17
3763242.51        1.80003
         439170.17    3763292.51        0.77994                        439220.17
3763292.51        0.81455
         439270.17    3763292.51        0.86356                        439320.17
3763292.51        0.92183
         439370.17    3763292.51        0.99187                        439420.17
3763292.51        1.04024
         439470.17    3763292.51        1.09789                        439520.17
3763292.51        1.16000
         439570.17    3763292.51        1.24806                        439620.17
3763292.51        1.32059
         439670.17    3763292.51        1.39469                        439720.17
3763292.51        1.44888
         439770.17    3763292.51        1.42272                        439820.17
3763292.51        1.47666
         439870.17    3763292.51        1.54169                        439170.17
3763342.51        0.73317
         439220.17    3763342.51        0.76330                        439270.17
3763342.51        0.81837
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:16:14

                                   PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
```

INCLUDING SOURCE(S): L0013092 , L0013093
, L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101
, L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109
, L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117
, L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.86610	439370.17	3763342.51	0.92413
439420.17	3763342.51	0.96982	439470.17	3763342.51	1.01629
439520.17	3763342.51	1.06552	439570.17	3763342.51	1.13338
439620.17	3763342.51	1.20412	439670.17	3763342.51	1.25559
439720.17	3763342.51	1.25491	439770.17	3763342.51	1.25268
439820.17	3763342.51	1.28842	439870.17	3763342.51	1.33178
439170.17	3763392.51	0.67485	439220.17	3763392.51	0.70009
439270.17	3763392.51	0.76734	439320.17	3763392.51	0.78668
439370.17	3763392.51	0.84627	439420.17	3763392.51	0.85700
439470.17	3763392.51	0.88937	439520.17	3763392.51	0.95389
439570.17	3763392.51	1.01902	439620.17	3763392.51	1.08934
439670.17	3763392.51	1.08440	439720.17	3763392.51	1.11697
439770.17	3763392.51	1.12122	439820.17	3763392.51	1.14619
439870.17	3763392.51	1.17430	439170.17	3763442.51	0.62462
439220.17	3763442.51	0.65198	439270.17	3763442.51	0.69810
439320.17	3763442.51	0.73039	439370.17	3763442.51	0.76015

```
         439420.17    3763442.51        0.79454                      439470.17
3763442.51        0.82061
         439520.17    3763442.51        0.87018                      439570.17
3763442.51        0.90751
         439620.17    3763442.51        0.94967                      439670.17
3763442.51        0.97173
         439720.17    3763442.51        0.99289                      439770.17
3763442.51        1.00396
         439820.17    3763442.51        1.02306                      439870.17
3763442.51        1.04651
         439203.20    3762911.16        1.18411                      439253.20
3762911.16        1.28145
         439303.20    3762911.16        1.39582                      439353.20
3762911.16        1.53696
         439403.20    3762911.16        1.68929                      439453.20
3762911.16        1.86581
         439503.20    3762911.16        2.07392                      439553.20
3762911.16        2.31346
         439203.20    3762961.16        1.13854                      439253.20
3762961.16        1.22896
         439303.20    3762961.16        1.33095                      439353.20
3762961.16        1.45529
         439403.20    3762961.16        1.59967                      439453.20
3762961.16        1.75242
         439503.20    3762961.16        1.94476                      439553.20
3762961.16        2.15173
         439203.20    3763011.16        1.08858                      439253.20
3763011.16        1.17164
         439303.20    3763011.16        1.26577                      439353.20
3763011.16        1.37082
         439403.20    3763011.16        1.51102                      439453.20
3763011.16        1.64892
         439503.20    3763011.16        1.81737                      439553.20
3763011.16        1.99659
         439203.20    3763061.16        1.03752                      439253.20
3763061.16        1.10978
         439303.20    3763061.16        1.19067                      439353.20
3763061.16        1.28546
         439403.20    3763061.16        1.39693                      439453.20
3763061.16        1.52921
         439503.20    3763061.16        1.67823                      439553.20
3763061.16        1.83149
         439196.01    3762392.48        1.32824                      439246.01
3762392.48        1.45736
         439296.01    3762392.48        1.60756                      439346.01
3762392.48        1.78439
         439396.01    3762392.48        1.99469                      439446.01
3762392.48        2.24717
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 , L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 , L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 , L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	2.55929	439546.01	3762392.48	2.95141
439196.01	3762442.48	1.33994	439246.01	3762442.48	1.47134
439296.01	3762442.48	1.62606	439346.01	3762442.48	1.80746
439396.01	3762442.48	2.02414	439446.01	3762442.48	2.28665
439496.01	3762442.48	2.60867	439546.01	3762442.48	3.01187
439196.01	3762492.48	1.34559	439246.01	3762492.48	1.47792
439296.01	3762492.48	1.63383	439346.01	3762492.48	1.81796
439396.01	3762492.48	2.03684	439446.01	3762492.48	2.30160
439496.01	3762492.48	2.62927	439546.01	3762492.48	3.03793
439196.01	3762542.48	1.34539	439246.01	3762542.48	1.47739
439296.01	3762542.48	1.63281	439346.01	3762542.48	1.81571
439396.01	3762542.48	2.03481	439446.01	3762542.48	2.29896
439496.01	3762542.48	2.62506	439546.01		

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3762542.48        3.02870
         439196.01    3762592.48        1.33911                    439246.01
3762592.48        1.47099
         439296.01    3762592.48        1.62429                    439346.01
3762592.48        1.80442
         439396.01    3762592.48        2.01931                    439446.01
3762592.48        2.27916
         439496.01    3762592.48        2.59868                    439546.01
3762592.48        2.99165
         439196.01    3762642.48        1.32692                    439246.01
3762642.48        1.45644
         439296.01    3762642.48        1.60580                    439346.01
3762642.48        1.78111
         439396.01    3762642.48        1.99106                    439446.01
3762642.48        2.24331
         439496.01    3762642.48        2.55164                    439546.01
3762642.48        2.92905
         439196.01    3762692.48        1.30894                    439246.01
3762692.48        1.43452
         439296.01    3762692.48        1.58059                    439346.01
3762692.48        1.75110
         439396.01    3762692.48        1.95146                    439446.01
3762692.48        2.19291
         439496.01    3762692.48        2.48654                    439546.01
3762692.48        2.84401
         439196.01    3762742.48        1.28560                    439246.01
3762742.48        1.40622
         439296.01    3762742.48        1.54647                    439346.01
3762742.48        1.70953
         439396.01    3762742.48        1.90147                    439446.01
3762742.48        2.12978
         439496.01    3762742.48        2.40565                    439546.01
3762742.48        2.73940
         439196.01    3762792.48        1.25743                    439246.01
3762792.48        1.37242
         439296.01    3762792.48        1.50592                    439346.01
3762792.48        1.66061
         439396.01    3762792.48        1.84153                    439446.01
3762792.48        2.05484
         439496.01    3762792.48        2.30977                    439546.01
3762792.48        2.61380
         439196.01    3762842.48        1.22223                    439246.01
3762842.48        1.33444
         439296.01    3762842.48        1.45995                    439346.01
3762842.48        1.60487
         439396.01    3762842.48        1.77293                    439446.01
3762842.48        1.97043
         439496.01    3762842.48        2.19867                    439546.01
3762842.48        2.47598
         439573.31    3762470.54        3.29602                    439623.31
3762470.54        3.90251
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 , L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 , L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 , L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439673.31	3762470.54	4.71510	439723.31	3762470.54	5.85377
439773.31	3762470.54	7.56054	439823.31	3762470.54	10.36298
439873.31	3762470.54	15.50182	439573.31	3762520.54	3.30072
439623.31	3762520.54	3.89831	439673.31	3762520.54	4.69260
439723.31	3762520.54	5.78314	439773.31	3762520.54	7.34859
439823.31	3762520.54	9.75147	439873.31	3762520.54	14.24491
439573.31	3762570.54	3.26976	439623.31	3762570.54	3.84908
439673.31	3762570.54	4.60793	439723.31	3762570.54	5.62564
439773.31	3762570.54	7.03667	439823.31	3762570.54	9.08797
439873.31	3762570.54	12.40760	439573.31	3762620.54	3.20828
439623.31	3762620.54	3.76079	439673.31	3762620.54	4.47402

```
         439723.31    3762620.54        5.41764                    439773.31
3762620.54        6.69295
         439823.31    3762620.54        8.47621                    439873.31
3762620.54       11.06304
         439573.31    3762670.54        3.11987                    439623.31
3762670.54        3.64225
         439673.31    3762670.54        4.30721                    439723.31
3762670.54        5.17851
         439773.31    3762670.54        6.35350                    439823.31
3762670.54        7.98706
         439873.31    3762670.54       10.36994                    439152.35
3761448.92        0.63999
         439202.35    3761448.92        0.66072                    439252.35
3761448.92        0.68329
         439302.35    3761448.92        0.70617                    439352.35
3761448.92        0.72953
         439402.35    3761448.92        0.75320                    439452.35
3761448.92        0.77689
         439502.35    3761448.92        0.80175                    439552.35
3761448.92        0.82524
         439152.35    3761498.92        0.67015                    439202.35
3761498.92        0.69491
         439252.35    3761498.92        0.72147                    439302.35
3761498.92        0.74576
         439352.35    3761498.92        0.77104                    439402.35
3761498.92        0.79696
         439452.35    3761498.92        0.82319                    439502.35
3761498.92        0.85163
         439552.35    3761498.92        0.87894                    439152.35
3761548.92        0.70160
         439202.35    3761548.92        0.72908                    439252.35
3761548.92        0.75811
         439302.35    3761548.92        0.78569                    439352.35
3761548.92        0.81355
         439402.35    3761548.92        0.84379                    439452.35
3761548.92        0.87423
         439502.35    3761548.92        0.90533                    439552.35
3761548.92        0.93733
         439152.35    3761598.92        0.73421                    439202.35
3761598.92        0.76430
         439252.35    3761598.92        0.79663                    439302.35
3761598.92        0.82923
         439352.35    3761598.92        0.86092                    439402.35
3761598.92        0.89579
         439452.35    3761598.92        0.93143                    439502.35
3761598.92        0.96609
         439552.35    3761598.92        1.00330                    439152.35
3761648.92        0.76747
         439202.35    3761648.92        0.80186                    439252.35
3761648.92        0.83848
         439302.35    3761648.92        0.87602                    439352.35
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3761648.92 0.91349
439402.35 3761648.92 0.95335 439452.35
3761648.92 0.99365
439502.35 3761648.92 1.03566 439552.35
3761648.92 1.07808
439152.35 3761698.92 0.80194 439202.35
3761698.92 0.84023
439252.35 3761698.92 0.88022 439302.35
3761698.92 0.92348
439352.35 3761698.92 0.96865 439402.35
3761698.92 1.01586

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.06016	439502.35	3761698.92	1.11030
439552.35	3761698.92	1.16082	439152.35	3761748.92	0.83661
439202.35	3761748.92	0.88025	439252.35	3761748.92	0.92441
439302.35	3761748.92	0.97393	439352.35	3761748.92	1.02498
439402.35	3761748.92	1.07855	439452.35	3761748.92	1.13236
439502.35	3761748.92	1.18721	439552.35		

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3761748.92        1.24809
         439152.35    3761798.92        0.87219                   439202.35
3761798.92        0.92160
         439252.35    3761798.92        0.97264                   439302.35
3761798.92        1.02922
         439352.35    3761798.92        1.08543                   439402.35
3761798.92        1.14643
         439452.35    3761798.92        1.21260                   439502.35
3761798.92        1.27553
         439552.35    3761798.92        1.34815                   439152.35
3761848.92        0.90855
         439202.35    3761848.92        0.96308                   439252.35
3761848.92        1.01983
         439302.35    3761848.92        1.08280                   439352.35
3761848.92        1.14737
         439402.35    3761848.92        1.22152                   439452.35
3761848.92        1.29685
         439502.35    3761848.92        1.37152                   439552.35
3761848.92        1.45857
         439152.35    3761898.92        0.94578                   439202.35
3761898.92        1.00536
         439252.35    3761898.92        1.06861                   439302.35
3761898.92        1.14166
         439352.35    3761898.92        1.21720                   439402.35
3761898.92        1.29888
         439452.35    3761898.92        1.39085                   439502.35
3761898.92        1.48538
         439552.35    3761898.92        1.58618                   439152.35
3761948.92        0.98234
         439202.35    3761948.92        1.04748                   439252.35
3761948.92        1.11746
         439302.35    3761948.92        1.19991                   439352.35
3761948.92        1.28731
         439402.35    3761948.92        1.38038                   439452.35
3761948.92        1.48796
         439502.35    3761948.92        1.60263                   439552.35
3761948.92        1.72572
         439152.35    3761998.92        1.01842                   439202.35
3761998.92        1.08893
         439252.35    3761998.92        1.16611                   439302.35
3761998.92        1.25810
         439352.35    3761998.92        1.35844                   439402.35
3761998.92        1.46419
         439452.35    3761998.92        1.58567                   439502.35
3761998.92        1.71986
         439552.35    3761998.92        1.86923                   439152.35
3762048.92        1.05367
         439202.35    3762048.92        1.13261                   439252.35
3762048.92        1.22024
         439302.35    3762048.92        1.31852                   439352.35
3762048.92        1.42841
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         439402.35    3762048.92        1.55033                      439452.35
3762048.92        1.69035
         439502.35    3762048.92        1.84771                      439552.35
3762048.92        2.02478
         439616.61    3761420.65        0.82412                      439666.61
3761420.65        0.84546
         439716.61    3761420.65        0.86524                      439766.61
3761420.65        0.88332
         439816.61    3761420.65        0.89841                      439866.61
3761420.65        0.91268
         439616.61    3761470.65        0.87895                      439666.61
3761470.65        0.90290
         439716.61    3761470.65        0.92577                      439766.61
3761470.65        0.94680
         439816.61    3761470.65        0.96459                      439866.61
3761470.65        0.98183
         439616.61    3761520.65        0.93960                      439666.61
3761520.65        0.96752
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:16:14

                                  PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
                                  INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439716.61    3761520.65        0.99418                      439766.61
3761520.65        1.01973
         439816.61    3761520.65        1.04113                      439866.61
3761520.65        1.06086
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         439616.61    3761570.65        1.00816                    439666.61
3761570.65        1.04068
         439716.61    3761570.65        1.07217                    439766.61
3761570.65        1.10239
         439816.61    3761570.65        1.12877                    439866.61
3761570.65        1.15083
         440451.14    3762893.83        9.44883                    440501.14
3762893.83        8.25137
         440551.14    3762893.83        7.27709                    440601.14
3762893.83        6.46176
         440651.14    3762893.83        5.77184                    440701.14
3762893.83        5.17842
         440751.14    3762893.83        4.66456                    440801.14
3762893.83        4.21609
         440851.14    3762893.83        3.82333                    440451.14
3762943.83        7.55488
         440501.14    3762943.83        6.77929                    440551.14
3762943.83        6.12454
         440601.14    3762943.83        5.55093                    440651.14
3762943.83        5.05532
         440701.14    3762943.83        4.61621                    440751.14
3762943.83        4.22491
         440801.14    3762943.83        3.87102                    440851.14
3762943.83        3.55329
         441116.67    3763135.31        1.88214                    441166.67
3763135.31        1.79192
         441116.67    3763185.31        1.74261                    441166.67
3763185.31        1.66953
         441116.67    3763235.31        1.61143                    441166.67
3763235.31        1.54658
         441116.67    3763285.31        1.48476                    441166.67
3763285.31        1.43960
         441116.67    3763335.31        1.35002                    441166.67
3763335.31        1.32196
         441116.67    3763385.31        1.22277                    441166.67
3763385.31        1.20447
         441116.67    3763435.31        1.10507                    441166.67
3763435.31        1.09457
         440433.43    3762815.13       13.99045                    440483.43
3762815.13       11.56541
         440533.43    3762815.13        9.74823                    440583.43
3762815.13        8.31357
         440633.43    3762815.13        7.16191                    440683.43
3762815.13        6.22973
         440733.43    3762815.13        5.46918                    440783.43
3762815.13        4.84226
         440833.43    3762815.13        4.32117                    440883.43
3762815.13        3.88272
         440933.43    3762815.13        3.50722                    440983.43
3762815.13        3.18532
         440433.43    3762865.13       11.33296                    440483.43
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3762865.13        9.66697
         440533.43    3762865.13        8.37127                      440583.43
3762865.13        7.32106
         440633.43    3762865.13        6.44883                      440683.43
3762865.13        5.71479
         440733.43    3762865.13        5.09180                      440783.43
3762865.13        4.56024
         440833.43    3762865.13        4.10453                      440883.43
3762865.13        3.71439
         440933.43    3762865.13        3.37493                      440983.43
3762865.13        3.08239
         441118.27    3762686.02        2.54889                      441168.27
3762686.02        2.34894
         441118.27    3762736.02        2.56243                      441168.27
3762736.02        2.35919
         441118.27    3762786.02        2.54184                      441168.27
3762786.02        2.34509
         441118.27    3762836.02        2.49500                      441168.27
3762836.02        2.30736
         440411.67    3762093.41        3.13887                      440461.67
3762093.41        2.92671
         440511.67    3762093.41        2.73360                      440561.67
3762093.41        2.55412
         440611.67    3762093.41        2.38796                      440411.67
3762143.41        3.64911
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       22:16:14

                                    PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
                                    INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M)        CONC
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	1.04666	439943.36	3761716.33	1.71335
439170.17	3763092.51	0.91556	439220.17	3763092.51	0.96856
439270.17	3763092.51	1.03972	439320.17	3763092.51	1.11506
439370.17	3763092.51	1.20129	439420.17	3763092.51	1.30157
439470.17	3763092.51	1.41981	439520.17	3763092.51	1.54343
439570.17	3763092.51	1.67664	439620.17	3763092.51	1.82263
439670.17	3763092.51	1.98270	439720.17	3763092.51	2.16233
439770.17	3763092.51	2.36355	439820.17	3763092.51	2.57863
439870.17	3763092.51	2.81055	439170.17	3763142.51	0.86923
439220.17	3763142.51	0.92391	439270.17	3763142.51	0.98971
439320.17	3763142.51	1.05650	439370.17	3763142.51	1.13419

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         439420.17    3763142.51        1.22394                    439470.17
3763142.51        1.31554
         439520.17    3763142.51        1.41775                    439570.17
3763142.51        1.53794
         439620.17    3763142.51        1.66432                    439670.17
3763142.51        1.78507
         439720.17    3763142.51        1.92436                    439770.17
3763142.51        2.07993
         439820.17    3763142.51        2.24178                    439870.17
3763142.51        2.39721
         439170.17    3763192.51        0.82969                    439220.17
3763192.51        0.88102
         439270.17    3763192.51        0.94090                    439320.17
3763192.51        0.99739
         439370.17    3763192.51        1.06898                    439420.17
3763192.51        1.14868
         439470.17    3763192.51        1.22658                    439520.17
3763192.51        1.31251
         439570.17    3763192.51        1.40998                    439620.17
3763192.51        1.51623
         439670.17    3763192.51        1.60994                    439720.17
3763192.51        1.70948
         439770.17    3763192.51        1.80890                    439820.17
3763192.51        1.92089
         439870.17    3763192.51        2.01724                    439170.17
3763242.51        0.78791
         439220.17    3763242.51        0.83492                    439270.17
3763242.51        0.88984
         439320.17    3763242.51        0.94320                    439370.17
3763242.51        1.00604
         439420.17    3763242.51        1.07196                    439470.17
3763242.51        1.13406
         439520.17    3763242.51        1.20934                    439570.17
3763242.51        1.29112
         439620.17    3763242.51        1.37839                    439670.17
3763242.51        1.46190
         439720.17    3763242.51        1.52512                    439770.17
3763242.51        1.57322
         439820.17    3763242.51        1.64626                    439870.17
3763242.51        1.66220
         439170.17    3763292.51        0.74715                    439220.17
3763292.51        0.77770
         439270.17    3763292.51        0.82568                    439320.17
3763292.51        0.87983
         439370.17    3763292.51        0.94042                    439420.17
3763292.51        0.99258
         439470.17    3763292.51        1.04222                    439520.17
3763292.51        1.09839
         439570.17    3763292.51        1.18519                    439620.17
3763292.51        1.24983
         439670.17    3763292.51        1.31563                    439720.17
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.82755	439370.17	3763342.51	0.88332
439420.17	3763342.51	0.92302	439470.17	3763342.51	0.96293
439520.17	3763342.51	1.00307	439570.17	3763342.51	1.07108
439620.17	3763342.51	1.13639	439670.17	3763342.51	1.17306
439720.17	3763342.51	1.20225	439770.17	3763342.51	1.16182
439820.17	3763342.51	1.19823	439870.17	3763342.51	1.23732
439170.17	3763392.51	0.65212	439220.17	3763392.51	0.66922
439270.17	3763392.51	0.72740	439320.17		

```
3763392.51        0.75806
         439370.17    3763392.51        0.79972                    439420.17
3763392.51        0.82871
         439470.17    3763392.51        0.84012                    439520.17
3763392.51        0.91751
         439570.17    3763392.51        0.96899                    439620.17
3763392.51        1.01891
         439670.17    3763392.51        1.01748                    439720.17
3763392.51        1.04823
         439770.17    3763392.51        1.04654                    439820.17
3763392.51        1.06953
         439870.17    3763392.51        1.09515                    439170.17
3763442.51        0.59229
         439220.17    3763442.51        0.61735                    439270.17
3763442.51        0.67195
         439320.17    3763442.51        0.69889                    439370.17
3763442.51        0.72083
         439420.17    3763442.51        0.75221                    439470.17
3763442.51        0.77011
         439520.17    3763442.51        0.82080                    439570.17
3763442.51        0.85482
         439620.17    3763442.51        0.89247                    439670.17
3763442.51        0.90445
         439720.17    3763442.51        0.92608                    439770.17
3763442.51        0.93992
         439820.17    3763442.51        0.95771                    439870.17
3763442.51        0.97914
         439203.20    3762911.16        1.12512                    439253.20
3762911.16        1.21539
         439303.20    3762911.16        1.32238                    439353.20
3762911.16        1.45504
         439403.20    3762911.16        1.59417                    439453.20
3762911.16        1.75902
         439503.20    3762911.16        1.95426                    439553.20
3762911.16        2.18057
         439203.20    3762961.16        1.08391                    439253.20
3762961.16        1.17143
         439303.20    3762961.16        1.26955                    439353.20
3762961.16        1.38348
         439403.20    3762961.16        1.51386                    439453.20
3762961.16        1.66216
         439503.20    3762961.16        1.83663                    439553.20
3762961.16        2.03798
         439203.20    3763011.16        1.02966                    439253.20
3763011.16        1.10668
         439303.20    3763011.16        1.19489                    439353.20
3763011.16        1.29475
         439403.20    3763011.16        1.43806                    439453.20
3763011.16        1.56042
         439503.20    3763011.16        1.72481                    439553.20
3763011.16        1.87304
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439203.20	3763061.16	0.98607	439253.20	3763061.16	1.04413
439303.20	3763061.16	1.12253	439353.20	3763061.16	1.21061
439403.20	3763061.16	1.31362	439453.20	3763061.16	1.43486
439503.20	3763061.16	1.58268	439553.20	3763061.16	1.71709
439196.01	3762392.48	1.27922	439246.01	3762392.48	1.39937
439296.01	3762392.48	1.53813	439346.01	3762392.48	1.70007
439396.01	3762392.48	1.89056	439446.01	3762392.48	2.11614
439496.01	3762392.48	2.38998	439546.01	3762392.48	2.72593
439196.01	3762442.48	1.28755	439246.01	3762442.48	1.40944
439296.01	3762442.48	1.55185	439346.01	3762442.48	1.71743
439396.01	3762442.48	1.91308	439446.01	3762442.48	2.14692

```
         439496.01    3762442.48        2.42888                    439546.01
3762442.48        2.77402
         439196.01    3762492.48        1.29052                    439246.01
3762492.48        1.41306
         439296.01    3762492.48        1.55635                    439346.01
3762492.48        1.72423
         439396.01    3762492.48        1.92189                    439446.01
3762492.48        2.15811
         439496.01    3762492.48        2.44605                    439546.01
3762492.48        2.79835
         439196.01    3762542.48        1.28838                    439246.01
3762542.48        1.41052
         439296.01    3762542.48        1.55341                    439346.01
3762542.48        1.72037
         439396.01    3762542.48        1.91872                    439446.01
3762542.48        2.15551
         439496.01    3762542.48        2.44441                    439546.01
3762542.48        2.79692
         439196.01    3762592.48        1.28106                    439246.01
3762592.48        1.40309
         439296.01    3762592.48        1.54425                    439346.01
3762592.48        1.70919
         439396.01    3762592.48        1.90467                    439446.01
3762592.48        2.13936
         439496.01    3762592.48        2.42570                    439546.01
3762592.48        2.77491
         439196.01    3762642.48        1.26871                    439246.01
3762642.48        1.38873
         439296.01    3762642.48        1.52670                    439346.01
3762642.48        1.68792
         439396.01    3762642.48        1.88007                    439446.01
3762642.48        2.10996
         439496.01    3762642.48        2.38982                    439546.01
3762642.48        2.73138
         439196.01    3762692.48        1.25138                    439246.01
3762692.48        1.36804
         439296.01    3762692.48        1.50333                    439346.01
3762692.48        1.66082
         439396.01    3762692.48        1.84546                    439446.01
3762692.48        2.06742
         439496.01    3762692.48        2.33710                    439546.01
3762692.48        2.66587
         439196.01    3762742.48        1.22928                    439246.01
3762742.48        1.34163
         439296.01    3762742.48        1.47192                    439346.01
3762742.48        1.62314
         439396.01    3762742.48        1.80093                    439446.01
3762742.48        2.01235
         439496.01    3762742.48        2.26823                    439546.01
3762742.48        2.57912
         439196.01    3762792.48        1.20272                    439246.01
```

3762792.48 1.31003
439296.01 3762792.48 1.43436 439346.01
3762792.48 1.57827
439396.01 3762792.48 1.74656 439446.01
3762792.48 1.94518
439496.01 3762792.48 2.18413 439546.01
3762792.48 2.47329
439196.01 3762842.48 1.17232 439246.01
3762842.48 1.27434
439296.01 3762842.48 1.39144 439346.01
3762842.48 1.52659
439396.01 3762842.48 1.68398 439446.01
3762842.48 1.86866
439496.01 3762842.48 2.08400 439546.01
3762842.48 2.32822
439573.31 3762470.54 3.01387 439623.31
3762470.54 3.51074
439673.31 3762470.54 4.14705 439723.31
3762470.54 4.98288
439773.31 3762470.54 6.12415 439823.31
3762470.54 7.76552

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	10.42350	439573.31		

```
3762520.54        3.02598
         439623.31    3762520.54        3.52664                    439673.31
3762520.54        4.17140
         439723.31    3762520.54        5.01996                    439773.31
3762520.54        6.16948
         439823.31    3762520.54        7.79284                    439873.31
3762520.54       10.32639
         439573.31    3762570.54        3.01287                    439623.31
3762570.54        3.51320
         439673.31    3762570.54        4.15846                    439723.31
3762570.54        5.00829
         439773.31    3762570.54        6.16269                    439823.31
3762570.54        7.79543
         439873.31    3762570.54       10.29570                    439573.31
3762620.54        2.97577
         439623.31    3762620.54        3.46871                    439673.31
3762620.54        4.10436
         439723.31    3762620.54        4.94887                    439773.31
3762620.54        6.10438
         439823.31    3762620.54        7.76959                    439873.31
3762620.54       10.38143
         439573.31    3762670.54        2.91311                    439623.31
3762670.54        3.39310
         439673.31    3762670.54        4.01008                    439723.31
3762670.54        4.83482
         439773.31    3762670.54        5.98708                    439823.31
3762670.54        7.68303
         439873.31    3762670.54       10.40293                    439152.35
3761448.92        0.65282
         439202.35    3761448.92        0.67586                    439252.35
3761448.92        0.70098
         439302.35    3761448.92        0.72662                    439352.35
3761448.92        0.75295
         439402.35    3761448.92        0.77977                    439452.35
3761448.92        0.80680
         439502.35    3761448.92        0.83526                    439552.35
3761448.92        0.86253
         439152.35    3761498.92        0.68238                    439202.35
3761498.92        0.70964
         439252.35    3761498.92        0.73903                    439302.35
3761498.92        0.76644
         439352.35    3761498.92        0.79511                    439402.35
3761498.92        0.82469
         439452.35    3761498.92        0.85482                    439502.35
3761498.92        0.88752
         439552.35    3761498.92        0.91935                    439152.35
3761548.92        0.71296
         439202.35    3761548.92        0.74306                    439252.35
3761548.92        0.77515
         439302.35    3761548.92        0.80617                    439352.35
3761548.92        0.83787
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         439402.35    3761548.92        0.87237                      439452.35
3761548.92        0.90742
         439502.35    3761548.92        0.94351                      439552.35
3761548.92        0.98095
         439152.35    3761598.92        0.74440                      439202.35
3761598.92        0.77720
         439252.35    3761598.92        0.81273                      439302.35
3761598.92        0.84908
         439352.35    3761598.92        0.88505                      439402.35
3761598.92        0.92480
         439452.35    3761598.92        0.96587                      439502.35
3761598.92        1.00643
         439552.35    3761598.92        1.05018                      439152.35
3761648.92        0.77621
         439202.35    3761648.92        0.81329                      439252.35
3761648.92        0.85318
         439302.35    3761648.92        0.89469                      439352.35
3761648.92        0.93685
         439402.35    3761648.92        0.98220                      439452.35
3761648.92        1.02875
         439502.35    3761648.92        1.07782                      439552.35
3761648.92        1.12809
         439152.35    3761698.92        0.80890                      439202.35
3761698.92        0.84979
         439252.35    3761698.92        0.89304                      439302.35
3761698.92        0.94034
         439352.35    3761698.92        0.99047                      439402.35
3761698.92        1.04369
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:16:14

                                   PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.09503	439502.35	3761698.92	1.15343
439552.35	3761698.92	1.21338	439152.35	3761748.92	0.84148
439202.35	3761748.92	0.88753	439252.35	3761748.92	0.93483
439302.35	3761748.92	0.98831	439352.35	3761748.92	1.04440
439402.35	3761748.92	1.10429	439452.35	3761748.92	1.16585
439502.35	3761748.92	1.23000	439552.35	3761748.92	1.30198
439152.35	3761798.92	0.87466	439202.35	3761798.92	0.92616
439252.35	3761798.92	0.98004	439302.35	3761798.92	1.04033
439352.35	3761798.92	1.10149	439402.35	3761798.92	1.16888
439452.35	3761798.92	1.24325	439502.35	3761798.92	1.31643
439552.35	3761798.92	1.40180	439152.35	3761848.92	0.90831
439202.35	3761848.92	0.96451	439252.35	3761848.92	1.02369
439302.35	3761848.92	1.08994	439352.35	3761848.92	1.15907
439402.35	3761848.92	1.23930	439452.35	3761848.92	1.32286
439502.35	3761848.92	1.40836	439552.35	3761848.92	1.50948
439152.35	3761898.92	0.94252	439202.35	3761898.92	1.00327
439252.35	3761898.92	1.06836	439302.35	3761898.92	1.14393
439352.35	3761898.92	1.22331	439402.35	3761898.92	1.31047
439452.35	3761898.92	1.41008	439502.35	3761898.92	1.51538
439552.35	3761898.92	1.63097	439152.35	3761948.92	0.97583
439202.35	3761948.92	1.04152	439252.35	3761948.92	1.11260
439302.35	3761948.92	1.19659	439352.35	3761948.92	1.28672
439402.35	3761948.92	1.38415	439452.35		

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3761948.92        1.49811
         439502.35    3761948.92        1.62247                          439552.35
3761948.92        1.75987
         439152.35    3761998.92        1.00841                          439202.35
3761998.92        1.07880
         439252.35    3761998.92        1.15618                          439302.35
3761998.92        1.24851
         439352.35    3761998.92        1.35004                          439402.35
3761998.92        1.45854
         439452.35    3761998.92        1.58451                          439502.35
3761998.92        1.72622
         439552.35    3761998.92        1.88769                          439152.35
3762048.92        1.03989
         439202.35    3762048.92        1.11779                          439252.35
3762048.92        1.20443
         439302.35    3762048.92        1.30186                          439352.35
3762048.92        1.41129
         439402.35    3762048.92        1.53363                          439452.35
3762048.92        1.67527
         439502.35    3762048.92        1.83664                          439552.35
3762048.92        2.02173
         439616.61    3761420.65        0.86442                          439666.61
3761420.65        0.88972
         439716.61    3761420.65        0.91364                          439766.61
3761420.65        0.93603
         439816.61    3761420.65        0.95548                          439866.61
3761420.65        0.97426
         439616.61    3761470.65        0.92316                          439666.61
3761470.65        0.95182
         439716.61    3761470.65        0.97966                          439766.61
3761470.65        1.00590
         439816.61    3761470.65        1.02900                          439866.61
3761470.65        1.05182
         439616.61    3761520.65        0.98811                          439666.61
3761520.65        1.02172
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:16:14

                                  PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                  INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
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L0013428 , L0013429 , L0013430 , L0013431 , L0013432
, L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	1.05442	439766.61	3761520.65	1.08642
439816.61	3761520.65	1.11441	439866.61	3761520.65	1.14100
439616.61	3761570.65	1.06141	439666.61	3761570.65	1.10087
439716.61	3761570.65	1.13979	439766.61	3761570.65	1.17799
439816.61	3761570.65	1.21269	439866.61	3761570.65	1.24324
440451.14	3762893.83	9.96138	440501.14	3762893.83	8.64025
440551.14	3762893.83	7.47923	440601.14	3762893.83	6.50665
440651.14	3762893.83	5.72000	440701.14	3762893.83	5.07974
440751.14	3762893.83	4.55285	440801.14	3762893.83	4.10786
440851.14	3762893.83	3.72839	440451.14	3762943.83	7.28931
440501.14	3762943.83	6.68933	440551.14	3762943.83	6.08949
440601.14	3762943.83	5.50212	440651.14	3762943.83	4.97808
440701.14	3762943.83	4.51540	440751.14	3762943.83	4.11557
440801.14	3762943.83	3.75827	440851.14	3762943.83	3.44666
441116.67	3763135.31	1.80455	441166.67	3763135.31	1.72068
441116.67	3763185.31	1.67317	441166.67	3763185.31	1.60118
441116.67	3763235.31	1.53596	441166.67	3763235.31	1.48489
441116.67	3763285.31	1.42114	441166.67	3763285.31	1.37838
441116.67	3763335.31	1.28794	441166.67	3763335.31	1.26531

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         441116.67    3763385.31        1.16432                      441166.67
3763385.31        1.14931
         441116.67    3763435.31        1.05049                      441166.67
3763435.31        1.04284
         440433.43    3762815.13       17.34975                      440483.43
3762815.13       12.88361
         440533.43    3762815.13       10.18671                      440583.43
3762815.13        8.34810
         440633.43    3762815.13        7.05220                      440683.43
3762815.13        6.07861
         440733.43    3762815.13        5.32460                      440783.43
3762815.13        4.70959
         440833.43    3762815.13        4.22950                      440883.43
3762815.13        3.81225
         440933.43    3762815.13        3.43559                      440983.43
3762815.13        3.13139
         440433.43    3762865.13       12.79993                      440483.43
3762865.13       10.57708
         440533.43    3762865.13        8.80490                      440583.43
3762865.13        7.45486
         440633.43    3762865.13        6.42255                      440683.43
3762865.13        5.61971
         440733.43    3762865.13        4.97582                      440783.43
3762865.13        4.44993
         440833.43    3762865.13        4.00759                      440883.43
3762865.13        3.61944
         440933.43    3762865.13        3.29631                      440983.43
3762865.13        3.01753
         441118.27    3762686.02        2.54238                      441168.27
3762686.02        2.34689
         441118.27    3762736.02        2.55156                      441168.27
3762736.02        2.34595
         441118.27    3762786.02        2.52187                      441168.27
3762786.02        2.33179
         441118.27    3762836.02        2.46808                      441168.27
3762836.02        2.28614
         440411.67    3762093.41        3.94675                      440461.67
3762093.41        3.60029
         440511.67    3762093.41        3.30053                      440561.67
3762093.41        3.03520
         440611.67    3762093.41        2.79987                      440411.67
3762143.41        4.69076
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                       ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       22:16:14

                                  PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408
, L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416
, L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424
, L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432
, L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	4.20623	440511.67	3762143.41	3.80400
440561.67	3762143.41	3.45619	440611.67	3762143.41	3.16091
440406.61	3762008.86	3.02736	440456.61	3762008.86	2.82502
440506.61	3762008.86	2.63742	440556.61	3762008.86	2.46370
440606.61	3762008.86	2.30578	440656.61	3762008.86	2.16202
440706.61	3762008.86	2.03165	440756.61	3762008.86	1.91300
440806.61	3762008.86	1.80007	440856.61	3762008.86	1.70165
440906.61	3762008.86	1.61356	440956.61	3762008.86	1.52921
441006.61	3762008.86	1.45195	441056.61	3762008.86	1.37918
441106.61	3762008.86	1.31355	441156.61	3762008.86	1.25314
440406.61	3762058.86	3.54661	440456.61	3762058.86	3.26788
440506.61	3762058.86	3.01962	440556.61	3762058.86	2.79660
440606.61	3762058.86	2.59582	440656.61	3762058.86	2.41757
440706.61	3762058.86	2.25910	440756.61	3762058.86	2.11476
440806.61	3762058.86	1.98062	440856.61	3762058.86	1.86297
440906.61	3762058.86	1.75717	440956.61		

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.00035	439943.36	3761716.33	0.00063
439170.17	3763092.51	0.00028	439220.17	3763092.51	0.00029
439270.17	3763092.51	0.00031	439320.17	3763092.51	0.00032
439370.17	3763092.51	0.00033	439420.17	3763092.51	0.00035
439470.17	3763092.51	0.00036	439520.17	3763092.51	0.00038
439570.17	3763092.51	0.00039	439620.17		

```
3763092.51        0.00040
         439670.17    3763092.51        0.00041                    439720.17
3763092.51        0.00042
         439770.17    3763092.51        0.00045                    439820.17
3763092.51        0.00049
         439870.17    3763092.51        0.00054                    439170.17
3763142.51        0.00024
         439220.17    3763142.51        0.00025                    439270.17
3763142.51        0.00026
         439320.17    3763142.51        0.00027                    439370.17
3763142.51        0.00028
         439420.17    3763142.51        0.00028                    439470.17
3763142.51        0.00029
         439520.17    3763142.51        0.00029                    439570.17
3763142.51        0.00030
         439620.17    3763142.51        0.00030                    439670.17
3763142.51        0.00031
         439720.17    3763142.51        0.00033                    439770.17
3763142.51        0.00035
         439820.17    3763142.51        0.00038                    439870.17
3763142.51        0.00043
         439170.17    3763192.51        0.00021                    439220.17
3763192.51        0.00022
         439270.17    3763192.51        0.00022                    439320.17
3763192.51        0.00022
         439370.17    3763192.51        0.00022                    439420.17
3763192.51        0.00023
         439470.17    3763192.51        0.00023                    439520.17
3763192.51        0.00023
         439570.17    3763192.51        0.00023                    439620.17
3763192.51        0.00024
         439670.17    3763192.51        0.00025                    439720.17
3763192.51        0.00026
         439770.17    3763192.51        0.00028                    439820.17
3763192.51        0.00031
         439870.17    3763192.51        0.00035                    439170.17
3763242.51        0.00018
         439220.17    3763242.51        0.00018                    439270.17
3763242.51        0.00018
         439320.17    3763242.51        0.00018                    439370.17
3763242.51        0.00018
         439420.17    3763242.51        0.00018                    439470.17
3763242.51        0.00018
         439520.17    3763242.51        0.00018                    439570.17
3763242.51        0.00018
         439620.17    3763242.51        0.00019                    439670.17
3763242.51        0.00020
         439720.17    3763242.51        0.00022                    439770.17
3763242.51        0.00024
         439820.17    3763242.51        0.00026                    439870.17
3763242.51        0.00029
```

```
         439170.17    3763292.51        0.00015                       439220.17
3763292.51        0.00015
         439270.17    3763292.51        0.00015                       439320.17
3763292.51        0.00015
         439370.17    3763292.51        0.00015                       439420.17
3763292.51        0.00014
         439470.17    3763292.51        0.00014                       439520.17
3763292.51        0.00014
         439570.17    3763292.51        0.00015                       439620.17
3763292.51        0.00016
         439670.17    3763292.51        0.00017                       439720.17
3763292.51        0.00018
         439770.17    3763292.51        0.00020                       439820.17
3763292.51        0.00023
         439870.17    3763292.51        0.00025                       439170.17
3763342.51        0.00013
         439220.17    3763342.51        0.00012                       439270.17
3763342.51        0.00012
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:16:14

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN    ***
                                  INCLUDING SOURCE(S):     PAREA1      , PAREA2
, PAREA3      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         439320.17    3763342.51        0.00012                       439370.17
3763342.51        0.00012
         439420.17    3763342.51        0.00012                       439470.17
3763342.51        0.00012
         439520.17    3763342.51        0.00012                       439570.17
3763342.51        0.00012
         439620.17    3763342.51        0.00013                       439670.17
3763342.51        0.00015
         439720.17    3763342.51        0.00016                       439770.17
3763342.51        0.00018
```

```
         439820.17    3763342.51        0.00020                    439870.17
3763342.51        0.00022
         439170.17    3763392.51        0.00010                    439220.17
3763392.51        0.00010
         439270.17    3763392.51        0.00010                    439320.17
3763392.51        0.00010
         439370.17    3763392.51        0.00010                    439420.17
3763392.51        0.00010
         439470.17    3763392.51        0.00010                    439520.17
3763392.51        0.00010
         439570.17    3763392.51        0.00011                    439620.17
3763392.51        0.00012
         439670.17    3763392.51        0.00013                    439720.17
3763392.51        0.00014
         439770.17    3763392.51        0.00016                    439820.17
3763392.51        0.00018
         439870.17    3763392.51        0.00019                    439170.17
3763442.51        0.00009
         439220.17    3763442.51        0.00008                    439270.17
3763442.51        0.00008
         439320.17    3763442.51        0.00008                    439370.17
3763442.51        0.00008
         439420.17    3763442.51        0.00008                    439470.17
3763442.51        0.00008
         439520.17    3763442.51        0.00009                    439570.17
3763442.51        0.00010
         439620.17    3763442.51        0.00011                    439670.17
3763442.51        0.00012
         439720.17    3763442.51        0.00013                    439770.17
3763442.51        0.00014
         439820.17    3763442.51        0.00016                    439870.17
3763442.51        0.00017
         439203.20    3762911.16        0.00042                    439253.20
3762911.16        0.00046
         439303.20    3762911.16        0.00050                    439353.20
3762911.16        0.00055
         439403.20    3762911.16        0.00061                    439453.20
3762911.16        0.00067
         439503.20    3762911.16        0.00075                    439553.20
3762911.16        0.00084
         439203.20    3762961.16        0.00038                    439253.20
3762961.16        0.00042
         439303.20    3762961.16        0.00045                    439353.20
3762961.16        0.00049
         439403.20    3762961.16        0.00053                    439453.20
3762961.16        0.00058
         439503.20    3762961.16        0.00064                    439553.20
3762961.16        0.00070
         439203.20    3763011.16        0.00035                    439253.20
3763011.16        0.00037
         439303.20    3763011.16        0.00040                    439353.20
```

3763011.16   0.00043
         439403.20   3763011.16   0.00046   439453.20
3763011.16   0.00049
         439503.20   3763011.16   0.00053   439553.20
3763011.16   0.00057
         439203.20   3763061.16   0.00031   439253.20
3763061.16   0.00033
         439303.20   3763061.16   0.00035   439353.20
3763061.16   0.00037
         439403.20   3763061.16   0.00039   439453.20
3763061.16   0.00041
         439503.20   3763061.16   0.00043   439553.20
3763061.16   0.00045
         439196.01   3762392.48   0.00060   439246.01
3762392.48   0.00067
         439296.01   3762392.48   0.00075   439346.01
3762392.48   0.00084
         439396.01   3762392.48   0.00096   439446.01
3762392.48   0.00110

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , PAREA2
, PAREA3   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439496.01   3762392.48   0.00128   439546.01
3762392.48   0.00150
         439196.01   3762442.48   0.00061   439246.01
3762442.48   0.00068
         439296.01   3762442.48   0.00076   439346.01
3762442.48   0.00086
         439396.01   3762442.48   0.00099   439446.01
3762442.48   0.00114
         439496.01   3762442.48   0.00132   439546.01

```
3762442.48        0.00156
         439196.01    3762492.48        0.00061                    439246.01
3762492.48        0.00068
         439296.01    3762492.48        0.00077                    439346.01
3762492.48        0.00088
         439396.01    3762492.48        0.00100                    439446.01
3762492.48        0.00116
         439496.01    3762492.48        0.00135                    439546.01
3762492.48        0.00159
         439196.01    3762542.48        0.00060                    439246.01
3762542.48        0.00068
         439296.01    3762542.48        0.00077                    439346.01
3762542.48        0.00088
         439396.01    3762542.48        0.00100                    439446.01
3762542.48        0.00116
         439496.01    3762542.48        0.00136                    439546.01
3762542.48        0.00160
         439196.01    3762592.48        0.00059                    439246.01
3762592.48        0.00067
         439296.01    3762592.48        0.00076                    439346.01
3762592.48        0.00086
         439396.01    3762592.48        0.00099                    439446.01
3762592.48        0.00114
         439496.01    3762592.48        0.00134                    439546.01
3762592.48        0.00157
         439196.01    3762642.48        0.00058                    439246.01
3762642.48        0.00065
         439296.01    3762642.48        0.00073                    439346.01
3762642.48        0.00083
         439396.01    3762642.48        0.00095                    439446.01
3762642.48        0.00110
         439496.01    3762642.48        0.00128                    439546.01
3762642.48        0.00151
         439196.01    3762692.48        0.00055                    439246.01
3762692.48        0.00062
         439296.01    3762692.48        0.00069                    439346.01
3762692.48        0.00079
         439396.01    3762692.48        0.00090                    439446.01
3762692.48        0.00104
         439496.01    3762692.48        0.00120                    439546.01
3762692.48        0.00141
         439196.01    3762742.48        0.00052                    439246.01
3762742.48        0.00058
         439296.01    3762742.48        0.00065                    439346.01
3762742.48        0.00074
         439396.01    3762742.48        0.00083                    439446.01
3762742.48        0.00096
         439496.01    3762742.48        0.00110                    439546.01
3762742.48        0.00129
         439196.01    3762792.48        0.00049                    439246.01
3762792.48        0.00054
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         439296.01    3762792.48        0.00061                       439346.01
3762792.48        0.00068
         439396.01    3762792.48        0.00076                       439446.01
3762792.48        0.00087
         439496.01    3762792.48        0.00100                       439546.01
3762792.48        0.00116
         439196.01    3762842.48        0.00046                       439246.01
3762842.48        0.00051
         439296.01    3762842.48        0.00056                       439346.01
3762842.48        0.00062
         439396.01    3762842.48        0.00069                       439446.01
3762842.48        0.00078
         439496.01    3762842.48        0.00089                       439546.01
3762842.48        0.00102
         439573.31    3762470.54        0.00173                       439623.31
3762470.54        0.00209
         439673.31    3762470.54        0.00256                       439723.31
3762470.54        0.00324
         439773.31    3762470.54        0.00426                       439823.31
3762470.54        0.00593
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:16:14

                                   PAGE  49
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN    ***
                                   INCLUDING SOURCE(S):     PAREA1      , PAREA2
, PAREA3      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                                ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                          X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439873.31    3762470.54        0.00902                       439573.31
3762520.54        0.00176
         439623.31    3762520.54        0.00211                       439673.31
3762520.54        0.00257
         439723.31    3762520.54        0.00320                       439773.31
3762520.54        0.00410
         439823.31    3762520.54        0.00548                       439873.31
3762520.54        0.00774
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         439573.31    3762570.54        0.00175                    439623.31
3762570.54        0.00210
         439673.31    3762570.54        0.00255                    439723.31
3762570.54        0.00315
         439773.31    3762570.54        0.00399                    439823.31
3762570.54        0.00526
         439873.31    3762570.54        0.00733                    439573.31
3762620.54        0.00170
         439623.31    3762620.54        0.00204                    439673.31
3762620.54        0.00248
         439723.31    3762620.54        0.00309                    439773.31
3762620.54        0.00396
         439823.31    3762620.54        0.00535                    439873.31
3762620.54        0.00792
         439573.31    3762670.54        0.00161                    439623.31
3762670.54        0.00193
         439673.31    3762670.54        0.00236                    439723.31
3762670.54        0.00297
         439773.31    3762670.54        0.00389                    439823.31
3762670.54        0.00541
         439873.31    3762670.54        0.00826                    439152.35
3761448.92        0.00016
         439202.35    3761448.92        0.00018                    439252.35
3761448.92        0.00019
         439302.35    3761448.92        0.00021                    439352.35
3761448.92        0.00023
         439402.35    3761448.92        0.00025                    439452.35
3761448.92        0.00028
         439502.35    3761448.92        0.00030                    439552.35
3761448.92        0.00031
         439152.35    3761498.92        0.00017                    439202.35
3761498.92        0.00018
         439252.35    3761498.92        0.00020                    439302.35
3761498.92        0.00022
         439352.35    3761498.92        0.00024                    439402.35
3761498.92        0.00026
         439452.35    3761498.92        0.00029                    439502.35
3761498.92        0.00031
         439552.35    3761498.92        0.00033                    439152.35
3761548.92        0.00017
         439202.35    3761548.92        0.00019                    439252.35
3761548.92        0.00020
         439302.35    3761548.92        0.00022                    439352.35
3761548.92        0.00024
         439402.35    3761548.92        0.00027                    439452.35
3761548.92        0.00030
         439502.35    3761548.92        0.00033                    439552.35
3761548.92        0.00035
         439152.35    3761598.92        0.00018                    439202.35
3761598.92        0.00019
         439252.35    3761598.92        0.00021                    439302.35
```

3761598.92   0.00023
         439352.35   3761598.92   0.00025   439402.35
3761598.92   0.00028
         439452.35   3761598.92   0.00031   439502.35
3761598.92   0.00034
         439552.35   3761598.92   0.00038   439152.35
3761648.92   0.00019
         439202.35   3761648.92   0.00020   439252.35
3761648.92   0.00022
         439302.35   3761648.92   0.00024   439352.35
3761648.92   0.00026
         439402.35   3761648.92   0.00029   439452.35
3761648.92   0.00032
         439502.35   3761648.92   0.00036   439552.35
3761648.92   0.00040
         439152.35   3761698.92   0.00021   439202.35
3761698.92   0.00022
         439252.35   3761698.92   0.00023   439302.35
3761698.92   0.00025
         439352.35   3761698.92   0.00027   439402.35
3761698.92   0.00030

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , PAREA2
, PAREA3   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3761748.92 0.00029
439402.35 3761748.92 0.00032 439452.35
3761748.92 0.00035
439502.35 3761748.92 0.00040 439552.35
3761748.92 0.00045
439152.35 3761798.92 0.00024 439202.35
3761798.92 0.00025
439252.35 3761798.92 0.00027 439302.35
3761798.92 0.00029
439352.35 3761798.92 0.00031 439402.35
3761798.92 0.00034
439452.35 3761798.92 0.00037 439502.35
3761798.92 0.00042
439552.35 3761798.92 0.00047 439152.35
3761848.92 0.00027
439202.35 3761848.92 0.00028 439252.35
3761848.92 0.00029
439302.35 3761848.92 0.00031 439352.35
3761848.92 0.00034
439402.35 3761848.92 0.00037 439452.35
3761848.92 0.00040
439502.35 3761848.92 0.00045 439552.35
3761848.92 0.00051
439152.35 3761898.92 0.00029 439202.35
3761898.92 0.00031
439252.35 3761898.92 0.00032 439302.35
3761898.92 0.00034
439352.35 3761898.92 0.00037 439402.35
3761898.92 0.00040
439452.35 3761898.92 0.00044 439502.35
3761898.92 0.00049
439552.35 3761898.92 0.00055 439152.35
3761948.92 0.00032
439202.35 3761948.92 0.00034 439252.35
3761948.92 0.00036
439302.35 3761948.92 0.00038 439352.35
3761948.92 0.00041
439402.35 3761948.92 0.00044 439452.35
3761948.92 0.00048
439502.35 3761948.92 0.00054 439552.35
3761948.92 0.00061
439152.35 3761998.92 0.00035 439202.35
3761998.92 0.00037
439252.35 3761998.92 0.00040 439302.35
3761998.92 0.00042
439352.35 3761998.92 0.00045 439402.35
3761998.92 0.00049
439452.35 3761998.92 0.00054 439502.35
3761998.92 0.00060
439552.35 3761998.92 0.00068 439152.35
3762048.92 0.00038

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439202.35	3762048.92	0.00041	439252.35	3762048.92	0.00044
439302.35	3762048.92	0.00047	439352.35	3762048.92	0.00051
439402.35	3762048.92	0.00055	439452.35	3762048.92	0.00061
439502.35	3762048.92	0.00068	439552.35	3762048.92	0.00076
439616.61	3761420.65	0.00032	439666.61	3761420.65	0.00032
439716.61	3761420.65	0.00032	439766.61	3761420.65	0.00031
439816.61	3761420.65	0.00031	439866.61	3761420.65	0.00030
439616.61	3761470.65	0.00034	439666.61	3761470.65	0.00035
439716.61	3761470.65	0.00035	439766.61	3761470.65	0.00035
439816.61	3761470.65	0.00034	439866.61	3761470.65	0.00033
439616.61	3761520.65	0.00037	439666.61	3761520.65	0.00038
439716.61	3761520.65	0.00039	439766.61	3761520.65	0.00039
439816.61	3761520.65	0.00039	439866.61	3761520.65	0.00038
439616.61	3761570.65	0.00040	439666.61	3761570.65	0.00042

```
         439716.61    3761570.65        0.00043                    439766.61
3761570.65        0.00044
         439816.61    3761570.65        0.00043                    439866.61
3761570.65        0.00043
         440451.14    3762893.83        0.01488                    440501.14
3762893.83        0.01294
         440551.14    3762893.83        0.01121                    440601.14
3762893.83        0.00971
         440651.14    3762893.83        0.00846                    440701.14
3762893.83        0.00741
         440751.14    3762893.83        0.00656                    440801.14
3762893.83        0.00582
         440851.14    3762893.83        0.00521                    440451.14
3762943.83        0.00946
         440501.14    3762943.83        0.00882                    440551.14
3762943.83        0.00811
         440601.14    3762943.83        0.00735                    440651.14
3762943.83        0.00666
         440701.14    3762943.83        0.00602                    440751.14
3762943.83        0.00546
         440801.14    3762943.83        0.00493                    440851.14
3762943.83        0.00446
         441116.67    3763135.31        0.00176                    441166.67
3763135.31        0.00168
         441116.67    3763185.31        0.00154                    441166.67
3763185.31        0.00148
         441116.67    3763235.31        0.00134                    441166.67
3763235.31        0.00129
         441116.67    3763285.31        0.00116                    441166.67
3763285.31        0.00113
         441116.67    3763335.31        0.00101                    441166.67
3763335.31        0.00099
         441116.67    3763385.31        0.00089                    441166.67
3763385.31        0.00087
         441116.67    3763435.31        0.00078                    441166.67
3763435.31        0.00077
         440433.43    3762815.13        0.03218                    440483.43
3762815.13        0.02365
         440533.43    3762815.13        0.01836                    440583.43
3762815.13        0.01474
         440633.43    3762815.13        0.01215                    440683.43
3762815.13        0.01023
         440733.43    3762815.13        0.00874                    440783.43
3762815.13        0.00756
         440833.43    3762815.13        0.00661                    440883.43
3762815.13        0.00582
         440933.43    3762815.13        0.00517                    440983.43
3762815.13        0.00462
         440433.43    3762865.13        0.02080                    440483.43
3762865.13        0.01707
         440533.43    3762865.13        0.01415                    440583.43
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3762865.13        0.01188
         440633.43    3762865.13        0.01010                       440683.43
3762865.13        0.00869
         440733.43    3762865.13        0.00755                       440783.43
3762865.13        0.00663
         440833.43    3762865.13        0.00586                       440883.43
3762865.13        0.00522
         440933.43    3762865.13        0.00468                       440983.43
3762865.13        0.00421
         441118.27    3762686.02        0.00393                       441168.27
3762686.02        0.00355
         441118.27    3762736.02        0.00380                       441168.27
3762736.02        0.00344
         441118.27    3762786.02        0.00362                       441168.27
3762786.02        0.00328
         441118.27    3762836.02        0.00339                       441168.27
3762836.02        0.00309
         440411.67    3762093.41        0.00424                       440461.67
3762093.41        0.00390
         440511.67    3762093.41        0.00361                       440561.67
3762093.41        0.00336
         440611.67    3762093.41        0.00314                       440411.67
3762143.41        0.00588
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:16:14

                                  PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN    ***
                                  INCLUDING SOURCE(S):     PAREA1      , PAREA2
, PAREA3      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         440461.67    3762143.41        0.00522                       440511.67
3762143.41        0.00471
         440561.67    3762143.41        0.00430                       440611.67
3762143.41        0.00396
         440406.61    3762008.86        0.00241                       440456.61
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3762008.86        0.00234
         440506.61    3762008.86        0.00226                       440556.61
3762008.86        0.00218
         440606.61    3762008.86        0.00210                       440656.61
3762008.86        0.00202
         440706.61    3762008.86        0.00194                       440756.61
3762008.86        0.00186
         440806.61    3762008.86        0.00179                       440856.61
3762008.86        0.00172
         440906.61    3762008.86        0.00165                       440956.61
3762008.86        0.00159
         441006.61    3762008.86        0.00153                       441056.61
3762008.86        0.00147
         441106.61    3762008.86        0.00142                       441156.61
3762008.86        0.00136
         440406.61    3762058.86        0.00337                       440456.61
3762058.86        0.00318
         440506.61    3762058.86        0.00300                       440556.61
3762058.86        0.00283
         440606.61    3762058.86        0.00268                       440656.61
3762058.86        0.00254
         440706.61    3762058.86        0.00240                       440756.61
3762058.86        0.00228
         440806.61    3762058.86        0.00217                       440856.61
3762058.86        0.00207
         440906.61    3762058.86        0.00197                       440956.61
3762058.86        0.00187
         441006.61    3762058.86        0.00179                       441056.61
3762058.86        0.00171
         441106.61    3762058.86        0.00163                       441156.61
3762058.86        0.00156
         440191.38    3762138.44        0.01230                       440241.38
3762138.44        0.01026
         440291.38    3762138.44        0.00833                       440341.38
3762138.44        0.00698
         440191.38    3762188.44        0.03572                       440241.38
3762188.44        0.01908
         440291.38    3762188.44        0.01291                       440341.38
3762188.44        0.00992
         440191.38    3762238.44        0.04595                       440241.38
3762238.44        0.02485
         440291.38    3762238.44        0.01682                       440341.38
3762238.44        0.01292
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                       ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:16:14

                                  PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	2.00971	439943.36	3761716.33	3.25361
439170.17	3763092.51	1.88161	439220.17	3763092.51	1.99384
439270.17	3763092.51	2.14244	439320.17	3763092.51	2.29832
439370.17	3763092.51	2.47768	439420.17	3763092.51	2.68644
439470.17	3763092.51	2.93449	439520.17	3763092.51	3.19219
439570.17	3763092.51	3.47528	439620.17	3763092.51	3.77268
439670.17	3763092.51	4.10546	439720.17	3763092.51	4.48684
439770.17	3763092.51	4.91763	439820.17	3763092.51	5.37326
439870.17	3763092.51	5.86015	439170.17	3763142.51	1.78822
439220.17	3763142.51	1.90195	439270.17	3763142.51	2.03872
439320.17	3763142.51	2.17783	439370.17	3763142.51	2.33958
439420.17	3763142.51	2.52660	439470.17	3763142.51	2.71743
439520.17	3763142.51	2.93013	439570.17	3763142.51	3.18266
439620.17	3763142.51	3.44766	439670.17	3763142.51	3.70548
439720.17	3763142.51	3.99415	439770.17	3763142.51	4.31233

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         439820.17    3763142.51        4.64468                    439870.17
3763142.51        4.98138
         439170.17    3763192.51        1.70684                    439220.17
3763192.51        1.81275
         439270.17    3763192.51        1.93830                    439320.17
3763192.51        2.05558
         439370.17    3763192.51        2.20341                    439420.17
3763192.51        2.37143
         439470.17    3763192.51        2.53205                    439520.17
3763192.51        2.71442
         439570.17    3763192.51        2.91898                    439620.17
3763192.51        3.14269
         439670.17    3763192.51        3.33014                    439720.17
3763192.51        3.52653
         439770.17    3763192.51        3.74431                    439820.17
3763192.51        3.98827
         439870.17    3763192.51        4.21677                    439170.17
3763242.51        1.62092
         439220.17    3763242.51        1.71886                    439270.17
3763242.51        1.83281
         439320.17    3763242.51        1.94536                    439370.17
3763242.51        2.07480
         439420.17    3763242.51        2.21286                    439470.17
3763242.51        2.34199
         439520.17    3763242.51        2.49840                    439570.17
3763242.51        2.67131
         439620.17    3763242.51        2.85692                    439670.17
3763242.51        3.01461
         439720.17    3763242.51        3.15267                    439770.17
3763242.51        3.28162
         439820.17    3763242.51        3.38036                    439870.17
3763242.51        3.46252
         439170.17    3763292.51        1.52723                    439220.17
3763292.51        1.59240
         439270.17    3763292.51        1.68939                    439320.17
3763292.51        1.80180
         439370.17    3763292.51        1.93244                    439420.17
3763292.51        2.03296
         439470.17    3763292.51        2.14025                    439520.17
3763292.51        2.25853
         439570.17    3763292.51        2.43339                    439620.17
3763292.51        2.57058
         439670.17    3763292.51        2.71049                    439720.17
3763292.51        2.79153
         439770.17    3763292.51        2.75075                    439820.17
3763292.51        2.83511
         439870.17    3763292.51        2.95636                    439170.17
3763342.51        1.43374
         439220.17    3763342.51        1.48788                    439270.17
3763342.51        1.59952
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	1.69378	439370.17	3763342.51	1.80757
439420.17	3763342.51	1.89295	439470.17	3763342.51	1.97934
439520.17	3763342.51	2.06870	439570.17	3763342.51	2.20458
439620.17	3763342.51	2.34065	439670.17	3763342.51	2.42879
439720.17	3763342.51	2.45732	439770.17	3763342.51	2.41469
439820.17	3763342.51	2.48685	439870.17	3763342.51	2.56932
439170.17	3763392.51	1.32708	439220.17	3763392.51	1.36941
439270.17	3763392.51	1.49483	439320.17	3763392.51	1.54484
439370.17	3763392.51	1.64609	439420.17	3763392.51	1.68581
439470.17	3763392.51	1.72959	439520.17	3763392.51	1.87151
439570.17	3763392.51	1.98812	439620.17	3763392.51	2.10837
439670.17	3763392.51	2.10201	439720.17		

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3763392.51        2.16535
         439770.17    3763392.51        2.16793                   439820.17
3763392.51        2.21590
         439870.17    3763392.51        2.26965                   439170.17
3763442.51        1.21700
         439220.17    3763442.51        1.26941                   439270.17
3763442.51        1.37013
         439320.17    3763442.51        1.42937                   439370.17
3763442.51        1.48106
         439420.17    3763442.51        1.54683                   439470.17
3763442.51        1.59080
         439520.17    3763442.51        1.69106                   439570.17
3763442.51        1.76243
         439620.17    3763442.51        1.84225                   439670.17
3763442.51        1.87631
         439720.17    3763442.51        1.91910                   439770.17
3763442.51        1.94402
         439820.17    3763442.51        1.98093                   439870.17
3763442.51        2.02582
         439203.20    3762911.16        2.30965                   439253.20
3762911.16        2.49730
         439303.20    3762911.16        2.71870                   439353.20
3762911.16        2.99255
         439403.20    3762911.16        3.28407                   439453.20
3762911.16        3.62550
         439503.20    3762911.16        4.02892                   439553.20
3762911.16        4.49487
         439203.20    3762961.16        2.22283                   439253.20
3762961.16        2.40080
         439303.20    3762961.16        2.60095                   439353.20
3762961.16        2.83926
         439403.20    3762961.16        3.11407                   439453.20
3762961.16        3.41516
         439503.20    3762961.16        3.78203                   439553.20
3762961.16        4.19041
         439203.20    3763011.16        2.11859                   439253.20
3763011.16        2.27869
         439303.20    3763011.16        2.46106                   439353.20
3763011.16        2.66600
         439403.20    3763011.16        2.94954                   439453.20
3763011.16        3.20983
         439503.20    3763011.16        3.54271                   439553.20
3763011.16        3.87019
         439203.20    3763061.16        2.02389                   439253.20
3763061.16        2.15424
         439303.20    3763061.16        2.31355                   439353.20
3763061.16        2.49643
         439403.20    3763061.16        2.71093                   439453.20
3763061.16        2.96447
         439503.20    3763061.16        3.26134                   439553.20
3763061.16        3.54903
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	4.95054	439546.01	3762392.48	5.67885
439196.01	3762442.48	2.62809	439246.01	3762442.48	2.88146
439296.01	3762442.48	3.17867	439346.01	3762442.48	3.52575
439396.01	3762442.48	3.93820	439446.01	3762442.48	4.43471
439496.01	3762442.48	5.03887	439546.01	3762442.48	5.78744
439196.01	3762492.48	2.63672	439246.01	3762492.48	2.89166
439296.01	3762492.48	3.19095	439346.01	3762492.48	3.54306
439396.01	3762492.48	3.95974	439446.01	3762492.48	4.46087

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         439496.01    3762492.48        5.07667                    439546.01
3762492.48        5.83787
         439196.01    3762542.48        2.63437                    439246.01
3762542.48        2.88859
         439296.01    3762542.48        3.18699                    439346.01
3762542.48        3.53695
         439396.01    3762542.48        3.95453                    439446.01
3762542.48        4.45564
         439496.01    3762542.48        5.07083                    439546.01
3762542.48        5.82722
         439196.01    3762592.48        2.62076                    439246.01
3762592.48        2.87475
         439296.01    3762592.48        3.16929                    439346.01
3762592.48        3.51447
         439396.01    3762592.48        3.92497                    439446.01
3762592.48        4.41967
         439496.01    3762592.48        5.02571                    439546.01
3762592.48        5.76813
         439196.01    3762642.48        2.59621                    439246.01
3762642.48        2.84582
         439296.01    3762642.48        3.13323                    439346.01
3762642.48        3.46986
         439396.01    3762642.48        3.87209                    439446.01
3762642.48        4.35437
         439496.01    3762642.48        4.94275                    439546.01
3762642.48        5.66195
         439196.01    3762692.48        2.56087                    439246.01
3762692.48        2.80317
         439296.01    3762692.48        3.08461                    439346.01
3762692.48        3.41271
         439396.01    3762692.48        3.79782                    439446.01
3762692.48        4.26137
         439496.01    3762692.48        4.82484                    439546.01
3762692.48        5.51129
         439196.01    3762742.48        2.51540                    439246.01
3762742.48        2.74843
         439296.01    3762742.48        3.01904                    439346.01
3762742.48        3.33341
         439396.01    3762742.48        3.70324                    439446.01
3762742.48        4.14308
         439496.01    3762742.48        4.67499                    439546.01
3762742.48        5.31981
         439196.01    3762792.48        2.46065                    439246.01
3762792.48        2.68299
         439296.01    3762792.48        2.94088                    439346.01
3762792.48        3.23956
         439396.01    3762792.48        3.58886                    439446.01
3762792.48        4.00089
         439496.01    3762792.48        4.49490                    439546.01
3762792.48        5.08825
         439196.01    3762842.48        2.39501                    439246.01
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3762842.48 2.60928
  439296.01 3762842.48 2.85195 439346.01
3762842.48 3.13208
  439396.01 3762842.48 3.45760 439446.01
3762842.48 3.83988
  439496.01 3762842.48 4.28355 439546.01
3762842.48 4.80522
  439573.31 3762470.54 6.31162 439623.31
3762470.54 7.41533
  439673.31 3762470.54 8.86471 439723.31
3762470.54 10.83988
  439773.31 3762470.54 13.68894 439823.31
3762470.54 18.13443

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	25.93434	439573.31	3762520.54	6.32846
439623.31	3762520.54	7.42706	439673.31	3762520.54	8.86657
439723.31	3762520.54	10.80630	439773.31	3762520.54	13.52217
439823.31	3762520.54	17.54979	439873.31	3762520.54	24.57904
439573.31	3762570.54	6.28438	439623.31		

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3762570.54        7.36438
         439673.31    3762570.54        8.76893                    439723.31
3762570.54       10.63708
         439773.31    3762570.54       13.20335                    439823.31
3762570.54       16.88865
         439873.31    3762570.54       22.71063                    439573.31
3762620.54        6.18574
         439623.31    3762620.54        7.23155                    439673.31
3762620.54        8.58086
         439723.31    3762620.54       10.36960                    439773.31
3762620.54       12.80129
         439823.31    3762620.54       16.25115                    439873.31
3762620.54       21.45239
         439573.31    3762670.54        6.03459                    439623.31
3762670.54        7.03728
         439673.31    3762670.54        8.31966                    439723.31
3762670.54       10.01630
         439773.31    3762670.54       12.34447                    439823.31
3762670.54       15.67550
         439873.31    3762670.54       20.78114                    439152.35
3761448.92        1.29297
         439202.35    3761448.92        1.33675                    439252.35
3761448.92        1.38446
         439302.35    3761448.92        1.43300                    439352.35
3761448.92        1.48271
         439402.35    3761448.92        1.53322                    439452.35
3761448.92        1.58397
         439502.35    3761448.92        1.63730                    439552.35
3761448.92        1.68808
         439152.35    3761498.92        1.35271                    439202.35
3761498.92        1.40473
         439252.35    3761498.92        1.46069                    439302.35
3761498.92        1.51241
         439352.35    3761498.92        1.56640                    439402.35
3761498.92        1.62191
         439452.35    3761498.92        1.67829                    439502.35
3761498.92        1.73947
         439552.35    3761498.92        1.79862                    439152.35
3761548.92        1.41473
         439202.35    3761548.92        1.47232                    439252.35
3761548.92        1.53346
         439302.35    3761548.92        1.59208                    439352.35
3761548.92        1.65167
         439402.35    3761548.92        1.71643                    439452.35
3761548.92        1.78195
         439502.35    3761548.92        1.84916                    439552.35
3761548.92        1.91863
         439152.35    3761598.92        1.47879                    439202.35
3761598.92        1.54169
         439252.35    3761598.92        1.60956                    439302.35
3761598.92        1.67854
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         439352.35    3761598.92        1.74622                      439402.35
3761598.92        1.82086
         439452.35    3761598.92        1.89760                      439502.35
3761598.92        1.97286
         439552.35    3761598.92        2.05385                      439152.35
3761648.92        1.54387
         439202.35    3761648.92        1.61535                      439252.35
3761648.92        1.69187
         439302.35    3761648.92        1.77095                      439352.35
3761648.92        1.85060
         439402.35    3761648.92        1.93584                      439452.35
3761648.92        2.02273
         439502.35    3761648.92        2.11384                      439552.35
3761648.92        2.20658
         439152.35    3761698.92        1.61104                      439202.35
3761698.92        1.69024
         439252.35    3761698.92        1.77349                      439302.35
3761698.92        1.86407
         439352.35    3761698.92        1.95939                      439402.35
3761698.92        2.05985
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        22:16:14

                                    PAGE  57
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439452.35    3761698.92        2.15552                      439502.35
3761698.92        2.26411
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         439552.35    3761698.92        2.37461                    439152.35
3761748.92        1.67831
         439202.35    3761748.92        1.76802                    439252.35
3761748.92        1.85948
         439302.35    3761748.92        1.96251                    439352.35
3761748.92        2.06966
         439402.35    3761748.92        2.18315                    439452.35
3761748.92        2.29855
         439502.35    3761748.92        2.41761                    439552.35
3761748.92        2.55051
         439152.35    3761798.92        1.74710                    439202.35
3761798.92        1.84802
         439252.35    3761798.92        1.95295                    439302.35
3761798.92        2.06984
         439352.35    3761798.92        2.18723                    439402.35
3761798.92        2.31565
         439452.35    3761798.92        2.45622                    439502.35
3761798.92        2.59238
         439552.35    3761798.92        2.75042                    439152.35
3761848.92        1.81712
         439202.35    3761848.92        1.92787                    439252.35
3761848.92        2.04382
         439302.35    3761848.92        2.17305                    439352.35
3761848.92        2.30678
         439402.35    3761848.92        2.46119                    439452.35
3761848.92        2.62011
         439502.35    3761848.92        2.78033                    439552.35
3761848.92        2.96856
         439152.35    3761898.92        1.88859                    439202.35
3761898.92        2.00894
         439252.35    3761898.92        2.13730                    439302.35
3761898.92        2.28594
         439352.35    3761898.92        2.44088                    439402.35
3761898.92        2.60976
         439452.35    3761898.92        2.80136                    439502.35
3761898.92        3.00125
         439552.35    3761898.92        3.21771                    439152.35
3761948.92        1.95849
         439202.35    3761948.92        2.08934                    439252.35
3761948.92        2.23041
         439302.35    3761948.92        2.39689                    439352.35
3761948.92        2.57444
         439402.35    3761948.92        2.76497                    439452.35
3761948.92        2.98656
         439502.35    3761948.92        3.22564                    439552.35
3761948.92        3.48620
         439152.35    3761998.92        2.02718                    439202.35
3761998.92        2.16810
         439252.35    3761998.92        2.32269                    439302.35
3761998.92        2.50703
         439352.35    3761998.92        2.70894                    439402.35
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3761998.92        2.92323
         439452.35    3761998.92        3.17073                      439502.35
3761998.92        3.44668
         439552.35    3761998.92        3.75759                      439152.35
3762048.92        2.09393
         439202.35    3762048.92        2.25081                      439252.35
3762048.92        2.42511
         439302.35    3762048.92        2.62085                      439352.35
3762048.92        2.84021
         439402.35    3762048.92        3.08451                      439452.35
3762048.92        3.36623
         439502.35    3762048.92        3.68503                      439552.35
3762048.92        4.04727
         439616.61    3761420.65        1.68885                      439666.61
3761420.65        1.73550
         439716.61    3761420.65        1.77919                      439766.61
3761420.65        1.81966
         439816.61    3761420.65        1.85419                      439866.61
3761420.65        1.88724
         439616.61    3761470.65        1.80245                      439666.61
3761470.65        1.85507
         439716.61    3761470.65        1.90579                      439766.61
3761470.65        1.95305
         439816.61    3761470.65        1.99393                      439866.61
3761470.65        2.03399
         439616.61    3761520.65        1.92808                      439666.61
3761520.65        1.98962
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:16:14

                                   PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	2.04900	439766.61	3761520.65	2.10654
439816.61	3761520.65	2.15592	439866.61	3761520.65	2.20224
439616.61	3761570.65	2.06997	439666.61	3761570.65	2.14198
439716.61	3761570.65	2.21240	439766.61	3761570.65	2.28082
439816.61	3761570.65	2.34189	439866.61	3761570.65	2.39450
440451.14	3762893.83	19.42508	440501.14	3762893.83	16.90455
440551.14	3762893.83	14.76752	440601.14	3762893.83	12.97812
440651.14	3762893.83	11.50030	440701.14	3762893.83	10.26557
440751.14	3762893.83	9.22397	440801.14	3762893.83	8.32977
440851.14	3762893.83	7.55693	440451.14	3762943.83	14.85364
440501.14	3762943.83	13.47745	440551.14	3762943.83	12.22214
440601.14	3762943.83	11.06040	440651.14	3762943.83	10.04006
440701.14	3762943.83	9.13763	440751.14	3762943.83	8.34594
440801.14	3762943.83	7.63421	440851.14	3762943.83	7.00441
441116.67	3763135.31	3.68844	441166.67	3763135.31	3.51427
441116.67	3763185.31	3.41732	441166.67	3763185.31	3.27218
441116.67	3763235.31	3.14873	441166.67	3763235.31	3.03277
441116.67	3763285.31	2.90706	441166.67	3763285.31	2.81911
441116.67	3763335.31	2.63897	441166.67	3763335.31	2.58826
441116.67	3763385.31	2.38798	441166.67	3763385.31	2.35465
441116.67	3763435.31	2.15634	441166.67	3763435.31	2.13817
440433.43	3762815.13	31.37238	440483.43	3762815.13	24.47268
440533.43	3762815.13	19.95330	440583.43	3762815.13	16.67641

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         440633.43    3762815.13       14.22627                       440683.43
3762815.13       12.31857
         440733.43    3762815.13       10.80252                       440783.43
3762815.13        9.55942
         440833.43    3762815.13        8.55727                       440883.43
3762815.13        7.70079
         440933.43    3762815.13        6.94798                       440983.43
3762815.13        6.32134
         440433.43    3762865.13       24.15369                       440483.43
3762865.13       20.26113
         440533.43    3762865.13       17.19031                       440583.43
3762865.13       14.78779
         440633.43    3762865.13       12.88148                       440683.43
3762865.13       11.34319
         440733.43    3762865.13       10.07518                       440783.43
3762865.13        9.01680
         440833.43    3762865.13        8.11799                       440883.43
3762865.13        7.33905
         440933.43    3762865.13        6.67592                       440983.43
3762865.13        6.10413
         441118.27    3762686.02        5.09520                       441168.27
3762686.02        4.69938
         441118.27    3762736.02        5.11779                       441168.27
3762736.02        4.70858
         441118.27    3762786.02        5.06732                       441168.27
3762786.02        4.68016
         441118.27    3762836.02        4.96646                       441168.27
3762836.02        4.59659
         440411.67    3762093.41        7.08986                       440461.67
3762093.41        6.53089
         440511.67    3762093.41        6.03773                       440561.67
3762093.41        5.59267
         440611.67    3762093.41        5.19097                       440411.67
3762143.41        8.34575
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:16:14

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
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, L0013433   , L0013434   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	7.57800	440511.67	3762143.41	6.92459
440561.67	3762143.41	6.34553	440611.67	3762143.41	5.84495
440406.61	3762008.86	5.53343	440456.61	3762008.86	5.19513
440506.61	3762008.86	4.87702	440556.61	3762008.86	4.57870
440606.61	3762008.86	4.30448	440656.61	3762008.86	4.05212
440706.61	3762008.86	3.82111	440756.61	3762008.86	3.60926
440806.61	3762008.86	3.40600	440856.61	3762008.86	3.22854
440906.61	3762008.86	3.06939	440956.61	3762008.86	2.91596
441006.61	3762008.86	2.77489	441056.61	3762008.86	2.64133
441106.61	3762008.86	2.52060	441156.61	3762008.86	2.40914
440406.61	3762058.86	6.41370	440456.61	3762058.86	5.95761
440506.61	3762058.86	5.54461	440556.61	3762058.86	5.16768
440606.61	3762058.86	4.82321	440656.61	3762058.86	4.51352
440706.61	3762058.86	4.23540	440756.61	3762058.86	3.97974
440806.61	3762058.86	3.74006	440856.61	3762058.86	3.52919
440906.61	3762058.86	3.33874	440956.61	3762058.86	3.16109
441006.61	3762058.86	2.99761	441056.61	3762058.86	2.84775
441106.61	3762058.86	2.70978	441156.61	3762058.86	2.58282
440191.38	3762138.44	13.33600	440241.38	3762138.44	11.77104
440291.38	3762138.44	10.49678	440341.38		

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	3.61538	(12010924)	439943.36	3761716.33	5.17459m	(13010324)
439170.17	3763092.51	4.19261	(12011324)	439220.17	3763092.51	4.51813	(12011324)
439270.17	3763092.51	4.80990	(12011324)	439320.17	3763092.51	5.16066	(12011324)
439370.17	3763092.51	5.54085	(12011324)	439420.17	3763092.51	5.95579	(12011324)
439470.17	3763092.51	6.38411	(12011324)	439520.17	3763092.51	6.83889	(12011324)
439570.17	3763092.51	7.26198	(12011324)	439620.17	3763092.51	7.87546	(12020424)
439670.17	3763092.51	8.71005	(12020424)	439720.17			

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3763092.51        9.56676  (12020424)
        439770.17   3763092.51       10.27820  (12020424)                439820.17
3763092.51       10.64850  (12020424)
        439870.17   3763092.51       10.38999  (12020424)                439170.17
3763142.51        4.20394  (12011324)
        439220.17   3763142.51        4.46385  (12011324)                439270.17
3763142.51        4.73804  (12011324)
        439320.17   3763142.51        5.03728  (12011324)                439370.17
3763142.51        5.35555  (12011324)
        439420.17   3763142.51        5.68514  (12011324)                439470.17
3763142.51        5.99932  (12011324)
        439520.17   3763142.51        6.43924  (12020424)                439570.17
3763142.51        7.00821  (12020424)
        439620.17   3763142.51        7.63975  (12020424)                439670.17
3763142.51        8.25947  (12020424)
        439720.17   3763142.51        8.77564  (12020424)                439770.17
3763142.51        8.95734  (12020424)
        439820.17   3763142.51        8.66496  (12020424)                439870.17
3763142.51        9.10483  (13112324)
        439170.17   3763192.51        4.13039  (12011324)                439220.17
3763192.51        4.36147  (12011324)
        439270.17   3763192.51        4.58113  (12011324)                439320.17
3763192.51        4.83705  (12011324)
        439370.17   3763192.51        5.13001  (12020424)                439420.17
3763192.51        5.45904  (12020424)
        439470.17   3763192.51        5.87135  (12020424)                439520.17
3763192.51        6.31779  (12020424)
        439570.17   3763192.51        6.79331  (12020424)                439620.17
3763192.51        7.24849  (12020424)
        439670.17   3763192.51        7.61683  (12020424)                439720.17
3763192.51        7.70310  (12020424)
        439770.17   3763192.51        7.43247  (12020424)                439820.17
3763192.51        7.80395  (13112324)
        439870.17   3763192.51        8.26092  (13112324)                439170.17
3763242.51        4.01963  (12011324)
        439220.17   3763242.51        4.23441  (12020424)                439270.17
3763242.51        4.48567  (12020424)
        439320.17   3763242.51        4.76983  (12020424)                439370.17
3763242.51        5.06331  (12020424)
        439420.17   3763242.51        5.38570  (12020424)                439470.17
3763242.51        5.78117  (12020424)
        439520.17   3763242.51        6.14844  (12020424)                439570.17
3763242.51        6.46295  (12020424)
        439620.17   3763242.51        6.67472  (12020424)                439670.17
3763242.51        6.72269  (12020424)
        439720.17   3763242.51        6.47790  (12020424)                439770.17
3763242.51        6.77972  (13112324)
        439820.17   3763242.51        7.39374  (13112324)                439870.17
3763242.51        7.62780  (13112324)
        439170.17   3763292.51        4.04354  (12020424)                439220.17
3763292.51        4.33327  (12020424)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439270.17	3763292.51	4.59699	(12020424)	439320.17	3763292.51	4.84958	(12020424)
439370.17	3763292.51	5.06158	(12020424)	439420.17	3763292.51	5.40142	(12020424)
439470.17	3763292.51	5.68813	(12020424)	439520.17	3763292.51	5.92244	(12020424)
439570.17	3763292.51	5.99430	(12020424)	439620.17	3763292.51	5.96055	(12020424)
439670.17	3763292.51	5.72535	(12020424)	439720.17	3763292.51	5.94290	(13112324)
439770.17	3763292.51	6.60699	(13112324)	439820.17	3763292.51	6.86178	(13112324)
439870.17	3763292.51	6.81961	(13112324)	439170.17	3763342.51	4.07373	(12020424)
439220.17	3763342.51	4.34650	(12020424)	439270.17	3763342.51	4.54490	(12020424)
439320.17	3763342.51	4.77659	(12020424)	439370.17	3763342.51	4.96983	(12020424)
439420.17	3763342.51	5.19898	(12020424)	439470.17	3763342.51	5.38358	(12020424)
439520.17	3763342.51	5.48086	(12020424)	439570.17	3763342.51	5.37441	(12020424)

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        439620.17   3763342.51        5.11858  (12020424)              439670.17
3763342.51        5.23314  (13112324)
        439720.17   3763342.51        5.78459  (13112324)              439770.17
3763342.51        6.15669  (13112324)
        439820.17   3763342.51        6.23542  (13112324)              439870.17
3763342.51        6.03207  (13112324)
        439170.17   3763392.51        4.15533  (12020424)              439220.17
3763392.51        4.43405  (12020424)
        439270.17   3763392.51        4.49398  (12020424)              439320.17
3763392.51        4.82994  (12020424)
        439370.17   3763392.51        4.86847  (12020424)              439420.17
3763392.51        5.21720  (12020424)
        439470.17   3763392.51        5.28877  (12020424)              439520.17
3763392.51        5.05166  (12020424)
        439570.17   3763392.51        4.71153  (12020424)              439620.17
3763392.51        4.66805  (13112324)
        439670.17   3763392.51        5.17681  (13112324)              439720.17
3763392.51        5.46849  (13112324)
        439770.17   3763392.51        5.65946  (13112324)              439820.17
3763392.51        5.58057  (13112324)
        439870.17   3763392.51        5.27363  (13112324)              439170.17
3763442.51        4.19559  (12020424)
        439220.17   3763442.51        4.42515  (12020424)              439270.17
3763442.51        4.57007  (12020424)
        439320.17   3763442.51        4.72629  (12020424)              439370.17
3763442.51        4.83776  (12020424)
        439420.17   3763442.51        4.83232  (12020424)              439470.17
3763442.51        4.75395  (12020424)
        439520.17   3763442.51        4.41669  (12020424)              439570.17
3763442.51        4.32523  (13112324)
        439620.17   3763442.51        4.64877  (13112324)              439670.17
3763442.51        4.94609  (13112324)
        439720.17   3763442.51        5.12451  (13112324)              439770.17
3763442.51        5.14995  (13112324)
        439820.17   3763442.51        4.96565  (13112324)              439870.17
3763442.51        4.60891  (13112324)
        439203.20   3762911.16        5.18901  (12122024)              439253.20
3762911.16        5.55944  (12122024)
        439303.20   3762911.16        5.97305  (12122024)              439353.20
3762911.16        6.44347  (12122024)
        439403.20   3762911.16        6.96725  (12122024)              439453.20
3762911.16        7.56065  (12122024)
        439503.20   3762911.16        8.23215  (12122024)              439553.20
3762911.16        8.99524  (12122024)
        439203.20   3762961.16        5.02813  (12122024)              439253.20
3762961.16        5.35663  (12122024)
        439303.20   3762961.16        5.71906  (12122024)              439353.20
3762961.16        6.12471  (12122024)
        439403.20   3762961.16        6.56860  (12122024)              439453.20
3762961.16        7.04395  (12122024)
        439503.20   3762961.16        7.56519  (12122024)              439553.20
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3762961.16 8.10986 (12122024)
  439203.20 3763011.16 4.77446 (12122024) 439253.20
3763011.16 5.05348 (12122024)
  439303.20 3763011.16 5.35342 (12122024) 439353.20
3763011.16 5.66941 (12122024)
  439403.20 3763011.16 6.01134 (12122024) 439453.20
3763011.16 6.45954 (12011324)
  439503.20 3763011.16 7.09977 (12011324) 439553.20
3763011.16 7.81721 (12011324)
  439203.20 3763061.16 4.45294 (12122024) 439253.20
3763061.16 4.70293 (12011324)
  439303.20 3763061.16 5.07353 (12011324) 439353.20
3763061.16 5.45962 (12011324)
  439403.20 3763061.16 5.89071 (12011324) 439453.20
3763061.16 6.36313 (12011324)
  439503.20 3763061.16 6.90831 (12011324) 439553.20
3763061.16 7.46967 (12011324)
  439196.01 3762392.48 4.34571 (14122624) 439246.01
3762392.48 4.84997 (14122624)
  439296.01 3762392.48 5.42738 (14122624) 439346.01
3762392.48 6.09247 (14122624)
  439396.01 3762392.48 6.85866 (14122624) 439446.01
3762392.48 7.73813 (14122624)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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        439196.01   3762742.48        5.02043  (12122024)               439246.01
3762742.48        5.44059  (12122024)
        439296.01   3762742.48        5.91202  (12122024)               439346.01
3762742.48        6.43815  (12122024)
        439396.01   3762742.48        7.03285  (12122024)               439446.01
3762742.48        7.71270  (12122024)
        439496.01   3762742.48        8.50735  (12122024)               439546.01
3762742.48        9.43189  (12122024)
        439196.01   3762792.48        5.13462  (12122024)               439246.01
3762792.48        5.54397  (12122024)
        439296.01   3762792.48        6.00630  (12122024)               439346.01
3762792.48        6.52525  (12122024)
        439396.01   3762792.48        7.11475  (12122024)               439446.01
3762792.48        7.79084  (12122024)
        439496.01   3762792.48        8.58858  (12122024)               439546.01
3762792.48        9.52549  (12122024)
        439196.01   3762842.48        5.19317  (12122024)               439246.01
3762842.48        5.59406  (12122024)
        439296.01   3762842.48        6.04098  (12122024)               439346.01
3762842.48        6.54564  (12122024)
        439396.01   3762842.48        7.12219  (12122024)               439446.01
3762842.48        7.78579  (12122024)
        439496.01   3762842.48        8.56149  (12122024)               439546.01
3762842.48        9.47623  (12122024)
        439573.31   3762470.54       10.45368  (16122724)               439623.31
3762470.54       12.38273  (16122724)
        439673.31   3762470.54       14.82738  (16122724)               439723.31
3762470.54       18.01242  (16122724)
        439773.31   3762470.54       22.42644  (16122724)               439823.31
3762470.54       28.91525  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***         22:16:14

                                   PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONRUN  ***
                                   INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                                 *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	37.55192	(16122724)	439573.31	3762520.54	10.41076	(12122024)
439623.31	3762520.54	12.14438	(12122024)	439673.31	3762520.54	14.32593	(16122724)
439723.31	3762520.54	17.44306	(16122724)	439773.31	3762520.54	21.43451	(16122724)
439823.31	3762520.54	26.56363	(16122724)	439873.31	3762520.54	35.21136	(16122724)
439573.31	3762570.54	10.40852	(12122024)	439623.31	3762570.54	11.91134	(12122024)
439673.31	3762570.54	13.70126	(12122024)	439723.31	3762570.54	16.35908	(16122724)
439773.31	3762570.54	19.88112	(16122724)	439823.31	3762570.54	24.16614	(16122724)
439873.31	3762570.54	29.89444	(16122724)	439573.31	3762620.54	10.19028	(12122024)
439623.31	3762620.54	11.51154	(12122024)	439673.31	3762620.54	13.08470	(12122024)
439723.31	3762620.54	15.00788	(12122024)	439773.31	3762620.54	18.08884	(16122724)
439823.31	3762620.54	22.16966	(16122724)	439873.31	3762620.54	27.22299	(16122724)
439573.31	3762670.54	9.99743	(12122024)	439623.31	3762670.54	11.23409	(12122024)
439673.31	3762670.54	12.71712	(12122024)	439723.31	3762670.54	14.57007	(12122024)
439773.31	3762670.54	16.98438	(12122024)	439823.31	3762670.54	20.39780	(12020624)
439873.31	3762670.54	26.11576	(16122724)	439152.35	3761448.92	2.76583	(15031324)
439202.35	3761448.92	2.78002	(15031324)	439252.35	3761448.92	2.77239	(15031324)
439302.35	3761448.92	2.73006	(15031324)	439352.35	3761448.92	2.71295	(13010224)
439402.35	3761448.92	2.76189	(13010224)	439452.35	3761448.92	2.74045	(13010224)
439502.35	3761448.92	2.79047	(15010624)	439552.35	3761448.92	2.87972	(16121624)
439152.35	3761498.92	2.91846	(15031324)	439202.35	3761498.92	2.97821	(15031324)
439252.35	3761498.92	3.01256	(15031324)	439302.35	3761498.92	2.98726	(15031324)
439352.35	3761498.92	2.92655	(15031324)	439402.35			

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3761498.92        2.92061  (13010224)
        439452.35   3761498.92        2.94565  (13010224)                439502.35
3761498.92        2.91782  (15010624)
        439552.35   3761498.92        3.03481  (16121624)                439152.35
3761548.92        3.05211  (15031324)
        439202.35   3761548.92        3.15013  (15031324)                439252.35
3761548.92        3.21952  (15031324)
        439302.35   3761548.92        3.23155  (15031324)                439352.35
3761548.92        3.19661  (15031324)
        439402.35   3761548.92        3.12853  (15031324)                439452.35
3761548.92        3.14221  (13010224)
        439502.35   3761548.92        3.14750  (13010224)                439552.35
3761548.92        3.19787  (15010624)
        439152.35   3761598.92        3.16020  (15031324)                439202.35
3761598.92        3.29699  (15031324)
        439252.35   3761598.92        3.41078  (15031324)                439302.35
3761598.92        3.47863  (15031324)
        439352.35   3761598.92        3.48496  (15031324)                439402.35
3761598.92        3.45583  (15031324)
        439452.35   3761598.92        3.37152  (15031324)                439502.35
3761598.92        3.39374  (13010224)
        439552.35   3761598.92        3.37296  (13010224)                439152.35
3761648.92        3.23442  (15031324)
        439202.35   3761648.92        3.42184  (15031324)                439252.35
3761648.92        3.58894  (15031324)
        439302.35   3761648.92        3.71578  (15031324)                439352.35
3761648.92        3.78446  (15031324)
        439402.35   3761648.92        3.80505  (15031324)                439452.35
3761648.92        3.75713  (15031324)
        439502.35   3761648.92        3.64817  (15031324)                439552.35
3761648.92        3.68972  (13010224)
        439152.35   3761698.92        3.27629  (15031324)                439202.35
3761698.92        3.50775  (15031324)
        439252.35   3761698.92        3.72005  (15031324)                439302.35
3761698.92        3.91290  (15031324)
        439352.35   3761698.92        4.06334  (15031324)                439402.35
3761698.92        4.15924  (15031324)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:16:14

                                   PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONRUN  ***
                                   INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
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                 L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                 L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439452.35   3761698.92        4.15300  (15031324)               439502.35
3761698.92        4.10117  (15031324)
        439552.35   3761698.92        3.99405  (13010224)               439152.35
3761748.92        3.51192  (16122724)
        439202.35   3761748.92        3.55797  (15031324)               439252.35
3761748.92        3.81716  (15031324)
        439302.35   3761748.92        4.07784  (15031324)               439352.35
3761748.92        4.29779  (15031324)
        439402.35   3761748.92        4.46755  (15031324)               439452.35
3761748.92        4.55347  (15031324)
        439502.35   3761748.92        4.54767  (15031324)               439552.35
3761748.92        4.47506  (15031324)
        439152.35   3761798.92        3.76797  (16122724)               439202.35
3761798.92        3.84738  (16122724)
        439252.35   3761798.92        3.88718  (15031324)               439302.35
3761798.92        4.21533  (15031324)
        439352.35   3761798.92        4.49748  (15031324)               439402.35
3761798.92        4.75066  (15031324)
        439452.35   3761798.92        4.95643  (15031324)               439502.35
3761798.92        5.03190  (15031324)
        439552.35   3761798.92        5.05021  (15031324)               439152.35
3761848.92        3.98714  (16122724)
        439202.35   3761848.92        4.13329  (16122724)               439252.35
3761848.92        4.22714  (16122724)
        439302.35   3761848.92        4.27891  (16122724)               439352.35
3761848.92        4.63404  (15031324)
        439402.35   3761848.92        5.00715  (15031324)               439452.35
3761848.92        5.31123  (15031324)
        439502.35   3761848.92        5.50367  (15031324)               439552.35
3761848.92        5.64735  (15031324)
        439152.35   3761898.92        4.16672  (16122724)               439202.35
3761898.92        4.37569  (16122724)
        439252.35   3761898.92        4.54786  (16122724)               439302.35
3761898.92        4.70445  (16122724)
        439352.35   3761898.92        4.77939  (16122724)               439402.35
3761898.92        5.18897  (15031324)
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        439452.35   3761898.92        5.63822  (15031324)                439502.35
3761898.92        6.00733  (15031324)
        439552.35   3761898.92        6.28230  (15031324)                439152.35
3761948.92        4.29772  (16122724)
        439202.35   3761948.92        4.56494  (16122724)                439252.35
3761948.92        4.81183  (16122724)
        439302.35   3761948.92        5.06936  (16122724)                439352.35
3761948.92        5.26498  (16122724)
        439402.35   3761948.92        5.37883  (16122724)                439452.35
3761948.92        5.87382  (15031324)
        439502.35   3761948.92        6.41161  (15031324)                439552.35
3761948.92        6.87985  (15031324)
        439152.35   3761998.92        4.46428  (14122624)                439202.35
3761998.92        4.70036  (16122724)
        439252.35   3761998.92        5.01461  (16122724)                439302.35
3761998.92        5.36596  (16122724)
        439352.35   3761998.92        5.68740  (16122724)                439402.35
3761998.92        5.93182  (16122724)
        439452.35   3761998.92        6.12932  (16122724)                439502.35
3761998.92        6.67353  (15031324)
        439552.35   3761998.92        7.34641  (15031324)                439152.35
3762048.92        4.67317  (14122624)
        439202.35   3762048.92        4.94703  (14122624)                439252.35
3762048.92        5.21529  (14122624)
        439302.35   3762048.92        5.60774  (16122724)                439352.35
3762048.92        6.02097  (16122724)
        439402.35   3762048.92        6.41214  (16122724)                439452.35
3762048.92        6.78156  (16122724)
        439502.35   3762048.92        7.07539  (16122724)                439552.35
3762048.92        7.71080  (15031324)
        439616.61   3761420.65        2.76375  (16121624)                439666.61
3761420.65        2.94469m (13010324)
        439716.61   3761420.65        3.13259m (13010324)                439766.61
3761420.65        3.25530m (13010324)
        439816.61   3761420.65        3.29852m (13010324)                439866.61
3761420.65        3.27390m (13010324)
        439616.61   3761470.65        2.97485  (16121624)                439666.61
3761470.65        3.06277m (13010324)
        439716.61   3761470.65        3.29051m (13010324)                439766.61
3761470.65        3.45043m (13010324)
        439816.61   3761470.65        3.52370m (13010324)                439866.61
3761470.65        3.52118m (13010324)
        439616.61   3761520.65        3.19075  (16121624)                439666.61
3761520.65        3.18439m (13010324)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:16:14

                                  PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***

INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 , L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 , L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 , L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	3.45805m	(13010324)	439766.61	3761520.65	3.66638m	(13010324)
439816.61	3761520.65	3.77795m	(13010324)	439866.61	3761520.65	3.79838m	(13010324)
439616.61	3761570.65	3.41540	(16121624)	439666.61	3761570.65	3.42919	(13121424)
439716.61	3761570.65	3.63670m	(13010324)	439766.61	3761570.65	3.89851m	(13010324)
439816.61	3761570.65	4.05951m	(13010324)	439866.61	3761570.65	4.10609m	(13010324)
440451.14	3762893.83	22.93889	(12120224)	440501.14	3762893.83	20.68432	(12120224)
440551.14	3762893.83	18.49379	(12120224)	440601.14	3762893.83	16.44574	(12120224)
440651.14	3762893.83	14.46881	(12120224)	440701.14	3762893.83	12.75753	(14032624)
440751.14	3762893.83	11.13651	(14032624)	440801.14	3762893.83	10.17519	(13040124)
440851.14	3762893.83	9.52801m	(12050224)	440451.14	3762943.83	19.42005	(12120224)
440501.14	3762943.83	18.02764	(12120224)	440551.14	3762943.83	16.64423	(12120224)
440601.14	3762943.83	15.25647	(12120224)	440651.14	3762943.83	13.84370	(12120224)
440701.14	3762943.83	12.73097	(14032624)	440751.14	3762943.83	11.46445	(14032624)
440801.14	3762943.83	10.33456	(14032624)	440851.14	3762943.83	9.22375	(14032624)
441116.67	3763135.31	6.38388	(14032624)	441166.67			

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3763135.31        5.86977  (14032624)
        441116.67   3763185.31        6.39709  (14032624)                441166.67
3763185.31        5.95011  (14032624)
        441116.67   3763235.31        6.28103  (14032624)                441166.67
3763235.31        5.88777  (14032624)
        441116.67   3763285.31        6.09226  (14032624)                441166.67
3763285.31        5.82457  (14032624)
        441116.67   3763335.31        5.70696  (12120224)                441166.67
3763335.31        5.54793  (14032624)
        441116.67   3763385.31        5.39531  (12120224)                441166.67
3763385.31        5.26941  (12120224)
        441116.67   3763435.31        5.02067  (12120224)                441166.67
3763435.31        4.96264  (12120224)
        440433.43   3762815.13       29.58043  (12120224)                440483.43
3762815.13       25.54871  (12120224)
        440533.43   3762815.13       21.51985  (12120224)                440583.43
3762815.13       17.90877m (12050224)
        440633.43   3762815.13       16.47383m (12050224)                440683.43
3762815.13       15.18157m (12050224)
        440733.43   3762815.13       14.01813m (12050224)                440783.43
3762815.13       12.97521m (12050224)
        440833.43   3762815.13       12.03510m (12050224)                440883.43
3762815.13       11.19056m (12050224)
        440933.43   3762815.13       10.42550m (12050224)                440983.43
3762815.13        9.73021m (12050224)
        440433.43   3762865.13       25.92716  (12120224)                440483.43
3762865.13       22.98333  (12120224)
        440533.43   3762865.13       20.22807  (12120224)                440583.43
3762865.13       17.65849  (12120224)
        440633.43   3762865.13       15.27181  (12120224)                440683.43
3762865.13       13.06413  (12120224)
        440733.43   3762865.13       11.98485m (12050224)                440783.43
3762865.13       11.28790m (12050224)
        440833.43   3762865.13       10.63840m (12050224)                440883.43
3762865.13       10.02934m (12050224)
        440933.43   3762865.13        9.46018m (12050224)                440983.43
3762865.13        8.93374m (12050224)
        441118.27   3762686.02        7.71125m (12050224)                441168.27
3762686.02        7.20975m (12050224)
        441118.27   3762736.02        8.18991m (12050224)                441168.27
3762736.02        7.64970m (12050224)
        441118.27   3762786.02        8.28597m (12050224)                441168.27
3762786.02        7.76896m (12050224)
        441118.27   3762836.02        7.99994m (12050224)                441168.27
3762836.02        7.54808m (12050224)
        440411.67   3762093.41        8.45887  (12010924)                440461.67
3762093.41        7.72677  (12010924)
        440511.67   3762093.41        7.19947  (14110424)                440561.67
3762093.41        6.74608  (14110424)
        440611.67   3762093.41        6.17382  (14110424)                440411.67
3762143.41        9.34904  (12010924)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	8.49102	(14110424)	440511.67	3762143.41	8.00292	(14110424)
440561.67	3762143.41	7.36423	(14110424)	440611.67	3762143.41	6.62177	(14110424)
440406.61	3762008.86	7.18988	(12010924)	440456.61	3762008.86	6.71755	(12010924)
440506.61	3762008.86	6.17114	(12010924)	440556.61	3762008.86	5.80900	(14110424)
440606.61	3762008.86	5.47087	(14110424)	440656.61	3762008.86	5.05062	(14110424)
440706.61	3762008.86	4.57826	(14110424)	440756.61	3762008.86	4.10681	(14110424)
440806.61	3762008.86	3.66870	(14110424)	440856.61	3762008.86	3.31719	(14110424)
440906.61	3762008.86	3.17964	(15013124)	440956.61	3762008.86	3.11025b	(14072524)
441006.61	3762008.86	3.13741b	(14072524)	441056.61	3762008.86	3.15288b	(14072524)
441106.61	3762008.86	3.16820b	(14072524)	441156.61	3762008.86	3.17555b	(14072524)
440406.61	3762058.86	7.94586	(12010924)	440456.61	3762058.86	7.34300	(12010924)

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        440506.61   3762058.86        6.72703  (14110424)                440556.61
3762058.86        6.37297  (14110424)
        440606.61   3762058.86        5.91731  (14110424)                440656.61
3762058.86        5.38101  (14110424)
        440706.61   3762058.86        4.82190  (14110424)                440756.61
3762058.86        4.29645  (14110424)
        440806.61   3762058.86        3.83867  (14110424)                440856.61
3762058.86        3.52584  (15013124)
        440906.61   3762058.86        3.52381b (14072524)                440956.61
3762058.86        3.54148b (14072524)
        441006.61   3762058.86        3.55335b (14072524)                441056.61
3762058.86        3.55812b (14072524)
        441106.61   3762058.86        3.55170b (14072524)                441156.61
3762058.86        3.53200b (14072524)
        440191.38   3762138.44       12.79285  (12010924)                440241.38
3762138.44       11.68223  (12010924)
        440291.38   3762138.44       10.90968  (12010924)                440341.38
3762138.44       10.22588  (12010924)
        440191.38   3762188.44       14.90418  (12010924)                440241.38
3762188.44       13.27044  (12010924)
        440291.38   3762188.44       12.40403  (12010924)                440341.38
3762188.44       11.56464  (12010924)
        440191.38   3762238.44       17.26030  (12010924)                440241.38
3762238.44       15.19218  (12010924)
        440291.38   3762238.44       14.09610  (12010924)                440341.38
3762238.44       12.95268  (12010924)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:16:14

                                   PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440407.86   3761497.84        3.98984  (12010924)               439943.36
3761716.33        5.85922m (13010324)
        439170.17   3763092.51        4.16718  (12011324)               439220.17
3763092.51        4.46657  (12011324)
        439270.17   3763092.51        4.72490  (12011324)               439320.17
3763092.51        5.01317  (12011324)
        439370.17   3763092.51        5.38140  (12020424)               439420.17
3763092.51        5.77464  (12020424)
        439470.17   3763092.51        6.16895  (12020424)               439520.17
3763092.51        6.64093  (12020424)
        439570.17   3763092.51        7.17744  (12020424)               439620.17
3763092.51        7.73570  (12020424)
        439670.17   3763092.51        8.26837  (12020424)               439720.17
3763092.51        8.67667  (12020424)
        439770.17   3763092.51        8.84337  (12020424)               439820.17
3763092.51        8.83966  (13112324)
        439870.17   3763092.51        9.45162  (13112324)               439170.17
3763142.51        4.13046  (12011324)
        439220.17   3763142.51        4.34608  (12011324)               439270.17
3763142.51        4.62802  (12020424)
        439320.17   3763142.51        4.99149  (12020424)               439370.17
3763142.51        5.33215  (12020424)
        439420.17   3763142.51        5.67446  (12020424)               439470.17
3763142.51        6.03877  (12020424)
        439520.17   3763142.51        6.42856  (12020424)               439570.17
3763142.51        6.84774  (12020424)
        439620.17   3763142.51        7.23444  (12020424)               439670.17
3763142.51        7.49022  (12020424)
        439720.17   3763142.51        7.57096  (12020424)               439770.17
3763142.51        7.45551  (13112324)
        439820.17   3763142.51        8.05233  (13112324)               439870.17
3763142.51        8.38623  (13112324)
        439170.17   3763192.51        4.00664  (12020424)               439220.17
3763192.51        4.33661  (12020424)
        439270.17   3763192.51        4.63999  (12020424)               439320.17
3763192.51        4.96159  (12020424)
        439370.17   3763192.51        5.23079  (12020424)               439420.17
3763192.51        5.52524  (12020424)
        439470.17   3763192.51        5.82468  (12020424)               439520.17
3763192.51        6.13212  (12020424)
        439570.17   3763192.51        6.39960  (12020424)               439620.17
3763192.51        6.59057  (12020424)
        439670.17   3763192.51        6.60332  (12020424)               439720.17
3763192.51        6.44153  (12020424)
        439770.17   3763192.51        7.01050  (13112324)               439820.17
3763192.51        7.39844  (13112324)
        439870.17   3763192.51        7.49523  (13112324)               439170.17
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3763242.51        4.09622  (12020424)
        439220.17   3763242.51        4.37449  (12020424)               439270.17
3763242.51        4.61409  (12020424)
        439320.17   3763242.51        4.87560  (12020424)               439370.17
3763242.51        5.09591  (12020424)
        439420.17   3763242.51        5.32777  (12020424)               439470.17
3763242.51        5.55963  (12020424)
        439520.17   3763242.51        5.73318  (12020424)               439570.17
3763242.51        5.84294  (12020424)
        439620.17   3763242.51        5.85067  (12020424)               439670.17
3763242.51        5.70509  (12020424)
        439720.17   3763242.51        6.09050  (13112324)               439770.17
3763242.51        6.55638  (13112324)
        439820.17   3763242.51        6.75046  (13112324)               439870.17
3763242.51        6.81691  (13112324)
        439170.17   3763292.51        4.12484  (12020424)               439220.17
3763292.51        4.40480  (12020424)
        439270.17   3763292.51        4.60046  (12020424)               439320.17
3763292.51        4.76741  (12020424)
        439370.17   3763292.51        4.91579  (12020424)               439420.17
3763292.51        5.06236  (12020424)
        439470.17   3763292.51        5.22729  (12020424)               439520.17
3763292.51        5.29473  (12020424)
        439570.17   3763292.51        5.21236  (12020424)               439620.17
3763292.51        5.07996  (12020424)
        439670.17   3763292.51        5.30590  (13112324)               439720.17
3763292.51        5.78626  (13112324)
        439770.17   3763292.51        6.21431  (13112324)               439820.17
3763292.51        6.33103  (13112324)
        439870.17   3763292.51        6.15866  (13112324)               439170.17
3763342.51        4.14244  (12020424)
        439220.17   3763342.51        4.39147  (12020424)               439270.17
3763342.51        4.47669  (12020424)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        22:16:14

                                    PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                    INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	4.59025	(12020424)	439370.17	3763342.51	4.64863	(12020424)
439420.17	3763342.51	4.76934	(12020424)	439470.17	3763342.51	4.82795	(12020424)
439520.17	3763342.51	4.78400	(12020424)	439570.17	3763342.51	4.58618	(12020424)
439620.17	3763342.51	4.69314	(13112324)	439670.17	3763342.51	5.10408	(13112324)
439720.17	3763342.51	5.41840	(13112324)	439770.17	3763342.51	5.76411	(13112324)
439820.17	3763342.51	5.71606	(13112324)	439870.17	3763342.51	5.45768	(13112324)
439170.17	3763392.51	4.12668	(12020424)	439220.17	3763392.51	4.35588	(12020424)
439270.17	3763392.51	4.37527	(12020424)	439320.17	3763392.51	4.46980	(12020424)
439370.17	3763392.51	4.50443	(12020424)	439420.17	3763392.51	4.52877	(12020424)
439470.17	3763392.51	4.63342	(12020424)	439520.17	3763392.51	4.24812	(12020424)
439570.17	3763392.51	4.22879	(13112324)	439620.17	3763392.51	4.55500	(13112324)
439670.17	3763392.51	4.96009	(13112324)	439720.17	3763392.51	5.16629	(13112324)
439770.17	3763392.51	5.27662	(13112324)	439820.17	3763392.51	5.14146	(13112324)
439870.17	3763392.51	4.82626	(13112324)	439170.17	3763442.51	4.12895	(12020424)
439220.17	3763442.51	4.26783	(12020424)	439270.17	3763442.51	4.23146	(12020424)
439320.17	3763442.51	4.29694	(12020424)	439370.17	3763442.51	4.34526	(12020424)
439420.17	3763442.51	4.25365	(12020424)	439470.17	3763442.51	4.17397	(12020424)
439520.17	3763442.51	3.86603	(13112324)	439570.17	3763442.51	4.18533	(13112324)
439620.17	3763442.51	4.46666	(13112324)	439670.17	3763442.51	4.72918	(13112324)
439720.17	3763442.51	4.84602	(13112324)	439770.17	3763442.51	4.81244	(13112324)

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        439820.17   3763442.51        4.61088  (13112324)               439870.17
3763442.51        4.27006m (14021824)
        439203.20   3762911.16        4.87279  (12122024)               439253.20
3762911.16        5.20162  (12122024)
        439303.20   3762911.16        5.57681  (12122024)               439353.20
3762911.16        6.00782  (12122024)
        439403.20   3762911.16        6.49464  (12122024)               439453.20
3762911.16        7.05657  (12122024)
        439503.20   3762911.16        7.69393  (12122024)               439553.20
3762911.16        8.41220  (12122024)
        439203.20   3762961.16        4.70276  (12122024)               439253.20
3762961.16        5.00143  (12122024)
        439303.20   3762961.16        5.33407  (12122024)               439353.20
3762961.16        5.70455  (12122024)
        439403.20   3762961.16        6.11178  (12122024)               439453.20
3762961.16        6.55342  (12122024)
        439503.20   3762961.16        7.02069  (12122024)               439553.20
3762961.16        7.54486  (12011324)
        439203.20   3763011.16        4.49969  (12122024)               439253.20
3763011.16        4.76385  (12122024)
        439303.20   3763011.16        5.03087  (12122024)               439353.20
3763011.16        5.35826  (12011324)
        439403.20   3763011.16        5.62818  (12011324)               439453.20
3763011.16        6.16426  (12011324)
        439503.20   3763011.16        6.68525  (12011324)               439553.20
3763011.16        7.41614  (12011324)
        439203.20   3763061.16        4.32999  (12011324)               439253.20
3763061.16        4.69851  (12011324)
        439303.20   3763061.16        4.99716  (12011324)               439353.20
3763061.16        5.32780  (12011324)
        439403.20   3763061.16        5.69226  (12011324)               439453.20
3763061.16        6.09203  (12011324)
        439503.20   3763061.16        6.52056  (12011324)               439553.20
3763061.16        7.08542  (12020424)
        439196.01   3762392.48        4.02231  (14122624)               439246.01
3762392.48        4.47193  (14122624)
        439296.01   3762392.48        4.98083  (14122624)               439346.01
3762392.48        5.55787  (14122624)
        439396.01   3762392.48        6.20853  (14122624)               439446.01
3762392.48        6.95501  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:16:14

                                  PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                  INCLUDING SOURCE(S):     L0013407    , L0013408
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, L0013409    , L0013410    , L0013411    ,
                L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439496.01   3762392.48        7.91390  (16122724)               439546.01
3762392.48        9.05190  (16122724)
        439196.01   3762442.48        4.00662  (12020624)               439246.01
3762442.48        4.36041  (12020624)
        439296.01   3762442.48        4.77149  (12020624)               439346.01
3762442.48        5.25220  (16122724)
        439396.01   3762442.48        5.92638  (16122724)               439446.01
3762442.48        6.73698  (16122724)
        439496.01   3762442.48        7.70881  (16122724)               439546.01
3762442.48        8.87693  (16122724)
        439196.01   3762492.48        4.03951  (12122024)               439246.01
3762492.48        4.43751  (12122024)
        439296.01   3762492.48        4.89843  (12122024)               439346.01
3762492.48        5.43116  (12122024)
        439396.01   3762492.48        6.04764  (12122024)               439446.01
3762492.48        6.76875  (12122024)
        439496.01   3762492.48        7.62549  (12122024)               439546.01
3762492.48        8.64145  (12122024)
        439196.01   3762542.48        4.27532  (12122024)               439246.01
3762542.48        4.68467  (12122024)
        439296.01   3762542.48        5.15587  (12122024)               439346.01
3762542.48        5.69561  (12122024)
        439396.01   3762542.48        6.32221  (12122024)               439446.01
3762542.48        7.05046  (12122024)
        439496.01   3762542.48        7.91259  (12122024)               439546.01
3762542.48        8.93007  (12122024)
        439196.01   3762592.48        4.46828  (12122024)               439246.01
3762592.48        4.87995  (12122024)
        439296.01   3762592.48        5.34460  (12122024)               439346.01
3762592.48        5.87248  (12122024)
        439396.01   3762592.48        6.47865  (12122024)               439446.01
3762592.48        7.18170  (12122024)
        439496.01   3762592.48        8.00750  (12122024)               439546.01
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3762592.48        8.97071  (12122024)
        439196.01   3762642.48        4.60747  (12122024)                439246.01
3762642.48        5.00910  (12122024)
        439296.01   3762642.48        5.45670  (12122024)                439346.01
3762642.48        5.96190  (12122024)
        439396.01   3762642.48        6.54331  (12122024)                439446.01
3762642.48        7.21091  (12122024)
        439496.01   3762642.48        7.98695  (12122024)                439546.01
3762642.48        8.87922  (12122024)
        439196.01   3762692.48        4.71478  (12122024)                439246.01
3762692.48        5.10669  (12122024)
        439296.01   3762692.48        5.54683  (12122024)                439346.01
3762692.48        6.04064  (12122024)
        439396.01   3762692.48        6.59448  (12122024)                439446.01
3762692.48        7.23095  (12122024)
        439496.01   3762692.48        7.96393  (12122024)                439546.01
3762692.48        8.80045  (12122024)
        439196.01   3762742.48        4.81287  (12122024)                439246.01
3762742.48        5.19782  (12122024)
        439296.01   3762742.48        5.62951  (12122024)                439346.01
3762742.48        6.11060  (12122024)
        439396.01   3762742.48        6.65167  (12122024)                439446.01
3762742.48        7.26590  (12122024)
        439496.01   3762742.48        7.98088  (12122024)                439546.01
3762742.48        8.81898  (12122024)
        439196.01   3762792.48        4.89267  (12122024)                439246.01
3762792.48        5.26751  (12122024)
        439296.01   3762792.48        5.68801  (12122024)                439346.01
3762792.48        6.15708  (12122024)
        439396.01   3762792.48        6.68748  (12122024)                439446.01
3762792.48        7.29731  (12122024)
        439496.01   3762792.48        8.02926  (12122024)                439546.01
3762792.48        8.91946  (12122024)
        439196.01   3762842.48        4.92457  (12122024)                439246.01
3762842.48        5.28410  (12122024)
        439296.01   3762842.48        5.68551  (12122024)                439346.01
3762842.48        6.13843  (12122024)
        439396.01   3762842.48        6.66031  (12122024)                439446.01
3762842.48        7.27226  (12122024)
        439496.01   3762842.48        8.01051  (12122024)                439546.01
3762842.48        8.89335  (12122024)
        439573.31   3762470.54        9.45142  (16122724)                439623.31
3762470.54       11.04211  (16122724)
        439673.31   3762470.54       12.94113  (16122724)                439723.31
3762470.54       15.18268  (16122724)
        439773.31   3762470.54       17.83888  (16122724)                439823.31
3762470.54       21.02987  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:16:14
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***

INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	26.14409	(12122024)	439573.31	3762520.54	9.46980	(12122024)
439623.31	3762520.54	10.84459	(12122024)	439673.31	3762520.54	12.68725	(16122724)
439723.31	3762520.54	15.09823	(16122724)	439773.31	3762520.54	17.99893	(16122724)
439823.31	3762520.54	21.50910	(16122724)	439873.31	3762520.54	26.69966	(12122024)
439573.31	3762570.54	9.59713	(12122024)	439623.31	3762570.54	10.91198	(12122024)
439673.31	3762570.54	12.50199	(12122024)	439723.31	3762570.54	14.85881	(16122724)
439773.31	3762570.54	18.06194	(16122724)	439823.31	3762570.54	22.09563	(16122724)
439873.31	3762570.54	27.40021	(16122724)	439573.31	3762620.54	9.49150	(12122024)
439623.31	3762620.54	10.67657	(12122024)	439673.31	3762620.54	12.06511	(12122024)
439723.31	3762620.54	14.07827	(16122724)	439773.31	3762620.54	17.36160	(16122724)
439823.31	3762620.54	21.55381	(16122724)	439873.31	3762620.54	26.98890	(16122724)
439573.31	3762670.54	9.34899	(12122024)	439623.31	3762670.54	10.44980	(12122024)
439673.31	3762670.54	11.78056	(12122024)	439723.31	3762670.54	13.52471	(12122024)

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        439773.31   3762670.54       15.97821  (12122024)              439823.31
3762670.54       20.40514  (16122724)
        439873.31   3762670.54       27.17600  (16122724)              439152.35
3761448.92        2.76911  (15031324)
        439202.35   3761448.92        2.82916  (15031324)              439252.35
3761448.92        2.87404  (15031324)
        439302.35   3761448.92        2.88960  (15031324)              439352.35
3761448.92        2.87519  (15031324)
        439402.35   3761448.92        2.82785  (15031324)              439452.35
3761448.92        2.81566  (13010224)
        439502.35   3761448.92        2.81305  (13010224)              439552.35
3761448.92        2.91629  (15010624)
        439152.35   3761498.92        2.88006  (15031324)              439202.35
3761498.92        2.98444  (15031324)
        439252.35   3761498.92        3.07316  (15031324)              439302.35
3761498.92        3.11138  (15031324)
        439352.35   3761498.92        3.12062  (15031324)              439402.35
3761498.92        3.09540  (15031324)
        439452.35   3761498.92        3.03082  (15031324)              439502.35
3761498.92        3.02287  (13010224)
        439552.35   3761498.92        3.06603  (15010624)              439152.35
3761548.92        2.96940  (15031324)
        439202.35   3761548.92        3.10762  (15031324)              439252.35
3761548.92        3.22972  (15031324)
        439302.35   3761548.92        3.30749  (15031324)              439352.35
3761548.92        3.34934  (15031324)
        439402.35   3761548.92        3.36644  (15031324)              439452.35
3761548.92        3.33834  (15031324)
        439502.35   3761548.92        3.26419  (15031324)              439552.35
3761548.92        3.24608  (13010224)
        439152.35   3761598.92        3.03406  (15031324)              439202.35
3761598.92        3.20307  (15031324)
        439252.35   3761598.92        3.36360  (15031324)              439302.35
3761598.92        3.49471  (15031324)
        439352.35   3761598.92        3.58090  (15031324)              439402.35
3761598.92        3.64651  (15031324)
        439452.35   3761598.92        3.66769  (15031324)              439502.35
3761598.92        3.62543  (15031324)
        439552.35   3761598.92        3.53820  (15031324)              439152.35
3761648.92        3.07025  (15031324)
        439202.35   3761648.92        3.27760  (15031324)              439252.35
3761648.92        3.48062  (15031324)
        439302.35   3761648.92        3.66273  (15031324)              439352.35
3761648.92        3.80832  (15031324)
        439402.35   3761648.92        3.92765  (15031324)              439452.35
3761648.92        3.99879  (15031324)
        439502.35   3761648.92        4.02226  (15031324)              439552.35
3761648.92        3.97863  (15031324)
        439152.35   3761698.92        3.30008  (16122724)              439202.35
3761698.92        3.32014  (15031324)
        439252.35   3761698.92        3.55384  (15031324)              439302.35
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	4.31204	(15031324)	439502.35	3761698.92	4.41237	(15031324)
439552.35	3761698.92	4.44191	(15031324)	439152.35	3761748.92	3.52278	(16122724)
439202.35	3761748.92	3.59353	(16122724)	439252.35	3761748.92	3.62183	(16122724)
439302.35	3761748.92	3.88335	(15031324)	439352.35	3761748.92	4.15050	(15031324)
439402.35	3761748.92	4.39950	(15031324)	439452.35	3761748.92	4.60365	(15031324)
439502.35	3761748.92	4.75737	(15031324)	439552.35	3761748.92	4.88201	(15031324)
439152.35	3761798.92	3.72048	(16122724)	439202.35	3761798.92	3.84670	(16122724)
439252.35	3761798.92	3.93587	(16122724)	439302.35	3761798.92	4.00465	(16122724)
439352.35	3761798.92	4.26713	(15031324)	439402.35	3761798.92	4.57517	(15031324)
439452.35	3761798.92	4.87755	(15031324)	439502.35			

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3761798.92        5.10484  (15031324)
        439552.35   3761798.92        5.33278  (15031324)                439152.35
3761848.92        3.88818  (16122724)
        439202.35   3761848.92        4.06503  (16122724)                439252.35
3761848.92        4.21004  (16122724)
        439302.35   3761848.92        4.33841  (16122724)                439352.35
3761848.92        4.41497  (16122724)
        439402.35   3761848.92        4.72920  (15031324)                439452.35
3761848.92        5.09691  (15031324)
        439502.35   3761848.92        5.41321  (15031324)                439552.35
3761848.92        5.75308  (15031324)
        439152.35   3761898.92        4.02544  (16122724)                439202.35
3761898.92        4.24789  (16122724)
        439252.35   3761898.92        4.45150  (16122724)                439302.35
3761898.92        4.66219  (16122724)
        439352.35   3761898.92        4.82394  (16122724)                439402.35
3761898.92        4.94917  (16122724)
        439452.35   3761898.92        5.29487  (15031324)                439502.35
3761898.92        5.73851  (15031324)
        439552.35   3761898.92        6.16954  (15031324)                439152.35
3761948.92        4.12519  (16122724)
        439202.35   3761948.92        4.38836  (16122724)                439252.35
3761948.92        4.64554  (16122724)
        439302.35   3761948.92        4.93135  (16122724)                439352.35
3761948.92        5.18483  (16122724)
        439402.35   3761948.92        5.39665  (16122724)                439452.35
3761948.92        5.60447  (16122724)
        439502.35   3761948.92        5.97736  (15031324)                439552.35
3761948.92        6.53208  (15031324)
        439152.35   3761998.92        4.25081  (14122624)                439202.35
3761998.92        4.48751  (16122724)
        439252.35   3761998.92        4.79049  (16122724)                439302.35
3761998.92        5.14231  (16122724)
        439352.35   3761998.92        5.48815  (16122724)                439402.35
3761998.92        5.79325  (16122724)
        439452.35   3761998.92        6.09889  (16122724)                439502.35
3761998.92        6.36984  (16122724)
        439552.35   3761998.92        6.78412  (15031324)                439152.35
3762048.92        4.35586  (14122624)
        439202.35   3762048.92        4.63374  (14122624)                439252.35
3762048.92        4.92744  (16122724)
        439302.35   3762048.92        5.31073  (16122724)                439352.35
3762048.92        5.71362  (16122724)
        439402.35   3762048.92        6.12152  (16122724)                439452.35
3762048.92        6.54651  (16122724)
        439502.35   3762048.92        6.95691  (16122724)                439552.35
3762048.92        7.34228  (16122724)
        439616.61   3761420.65        2.91726  (16121624)                439666.61
3761420.65        2.96004  (13121424)
        439716.61   3761420.65        3.18563m (13010324)                439766.61
3761420.65        3.36967m (13010324)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	3.47419m	(13010324)	439766.61	3761520.65	3.76667m	(13010324)
439816.61	3761520.65	3.97144m	(13010324)	439866.61	3761520.65	4.08295m	(13010324)
439616.61	3761570.65	3.49533	(15010624)	439666.61	3761570.65	3.60504	(13121424)
439716.61	3761570.65	3.72252	(13121424)	439766.61	3761570.65	3.98120m	(13010324)
439816.61	3761570.65	4.25577m	(13010324)	439866.61	3761570.65	4.41686m	(13010324)
440451.14	3762893.83	26.59400	(12120224)	440501.14	3762893.83	22.69231	(12120224)

```
        440551.14   3762893.83       19.13357  (12120224)               440601.14
3762893.83       16.44454  (12120224)
        440651.14   3762893.83       14.35574  (12120224)               440701.14
3762893.83       12.70834  (12120224)
        440751.14   3762893.83       11.20504  (12120224)               440801.14
3762893.83        9.97478  (12120224)
        440851.14   3762893.83        9.17178m (12050224)               440451.14
3762943.83       20.48645m (16031424)
        440501.14   3762943.83       18.89627  (12120224)               440551.14
3762943.83       17.20028  (12120224)
        440601.14   3762943.83       15.36990  (12120224)               440651.14
3762943.83       13.68626  (12120224)
        440701.14   3762943.83       12.24595  (12120224)               440751.14
3762943.83       10.98313  (12120224)
        440801.14   3762943.83        9.97297  (12120224)               440851.14
3762943.83        9.08853  (12120224)
        441116.67   3763135.31        6.09835  (14032624)               441166.67
3763135.31        5.69138  (14032624)
        441116.67   3763185.31        6.02804  (14032624)               441166.67
3763185.31        5.66568  (14032624)
        441116.67   3763235.31        5.75614  (14032624)               441166.67
3763235.31        5.53101  (14032624)
        441116.67   3763285.31        5.66248  (14032624)               441166.67
3763285.31        5.39913  (14032624)
        441116.67   3763335.31        5.42452  (12120224)               441166.67
3763335.31        5.20040  (12120224)
        441116.67   3763385.31        5.10499  (12120224)               441166.67
3763385.31        4.99876  (12120224)
        441116.67   3763435.31        4.73083  (12120224)               441166.67
3763435.31        4.68844  (12120224)
        440433.43   3762815.13       35.45622  (12120224)               440483.43
3762815.13       27.89126m (12050224)
        440533.43   3762815.13       23.10266m (12050224)               440583.43
3762815.13       19.54151m (12050224)
        440633.43   3762815.13       16.94776m (12050224)               440683.43
3762815.13       14.96157m (12050224)
        440733.43   3762815.13       13.38555m (12050224)               440783.43
3762815.13       12.14684m (12050224)
        440833.43   3762815.13       11.11059m (12050224)               440883.43
3762815.13       10.25613m (12050224)
        440933.43   3762815.13        9.49260m (12050224)               440983.43
3762815.13        8.84242m (12050224)
        440433.43   3762865.13       32.46072  (12120224)               440483.43
3762865.13       25.73040  (12120224)
        440533.43   3762865.13       20.81297  (12120224)               440583.43
3762865.13       17.40259  (12120224)
        440633.43   3762865.13       14.96851  (12120224)               440683.43
3762865.13       13.09227  (12120224)
        440733.43   3762865.13       11.90531m (12050224)               440783.43
3762865.13       10.97836m (12050224)
        440833.43   3762865.13       10.18447m (12050224)               440883.43
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	9.65239	(14110424)	440511.67	3762143.41	8.80349	(14110424)
440561.67	3762143.41	7.91803	(14110424)	440611.67	3762143.41	7.06629	(14110424)
440406.61	3762008.86	7.92910	(12010924)	440456.61			

3762008.86 7.25152 (12010924)
  440506.61 3762008.86 6.77999 (14110424) 440556.61
3762008.86 6.32645 (14110424)
  440606.61 3762008.86 5.84990 (14110424) 440656.61
3762008.86 5.35900 (14110424)
  440706.61 3762008.86 4.87568 (14110424) 440756.61
3762008.86 4.41864 (14110424)
  440806.61 3762008.86 3.98691 (14110424) 440856.61
3762008.86 3.70845b (14072524)
  440906.61 3762008.86 3.68246b (14072524) 440956.61
3762008.86 3.63774b (14072524)
  441006.61 3762008.86 3.58956b (14072524) 441056.61
3762008.86 3.52852b (14072524)
  441106.61 3762008.86 3.46834b (14072524) 441156.61
3762008.86 3.40255b (14072524)
  440406.61 3762058.86 8.75711 (12010924) 440456.61
3762058.86 8.06135 (14110424)
  440506.61 3762058.86 7.51395 (14110424) 440556.61
3762058.86 6.94160 (14110424)
  440606.61 3762058.86 6.34141 (14110424) 440656.61
3762058.86 5.74646 (14110424)
  440706.61 3762058.86 5.18351 (14110424) 440756.61
3762058.86 4.66261 (14110424)
  440806.61 3762058.86 4.24576b (14072524) 440856.61
3762058.86 4.16853b (14072524)
  440906.61 3762058.86 4.09742b (14072524) 440956.61
3762058.86 4.01853b (14072524)
  441006.61 3762058.86 3.93583b (14072524) 441056.61
3762058.86 3.84965b (14072524)
  441106.61 3762058.86 3.75779b (14072524) 441156.61
3762058.86 3.66021b (14072524)
  440191.38 3762138.44 19.23847 (12010924) 440241.38
3762138.44 15.73363 (12010924)
  440291.38 3762138.44 13.44973 (14110424) 440341.38
3762138.44 11.81548 (14110424)
  440191.38 3762188.44 23.96410 (14110424) 440241.38
3762188.44 18.53843 (14110424)
  440291.38 3762188.44 15.41402 (14110424) 440341.38
3762188.44 13.33748 (14110424)
  440191.38 3762238.44 27.11014c (13112024) 440241.38
3762238.44 20.25434 (14110424)
  440291.38 3762238.44 16.68644 (14110424) 440341.38
3762238.44 14.60721 (12010924)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	0.08847	(12010924)	439943.36	3761716.33	0.12171	(12122424)
439170.17	3763092.51	0.06370	(16010424)	439220.17	3763092.51	0.06851	(16010424)
439270.17	3763092.51	0.07455	(15113024)	439320.17	3763092.51	0.08136	(15113024)
439370.17	3763092.51	0.08840	(15113024)	439420.17	3763092.51	0.09549	(15113024)
439470.17	3763092.51	0.10222	(15113024)	439520.17	3763092.51	0.10793	(15113024)
439570.17	3763092.51	0.11189	(15113024)	439620.17	3763092.51	0.11295	(15113024)
439670.17	3763092.51	0.10996	(15113024)	439720.17	3763092.51	0.10241	(15113024)
439770.17	3763092.51	0.12290c	(14041424)	439820.17	3763092.51	0.16169c	(14041424)
439870.17	3763092.51	0.19753c	(14041424)	439170.17	3763142.51	0.06159	(15113024)
439220.17	3763142.51	0.06662	(15113024)	439270.17	3763142.51	0.07183	(15113024)
439320.17	3763142.51	0.07680	(15113024)	439370.17	3763142.51	0.08152	(15113024)
439420.17	3763142.51	0.08567	(15113024)	439470.17	3763142.51	0.08859	(15113024)
439520.17	3763142.51	0.08989	(15113024)	439570.17	3763142.51	0.08915	(15113024)
439620.17	3763142.51	0.08552	(15113024)	439670.17	3763142.51	0.07846	(15113024)
439720.17	3763142.51	0.09209c	(14041424)	439770.17	3763142.51	0.12110c	(14041424)
439820.17	3763142.51	0.15066c	(14041424)	439870.17	3763142.51	0.17400c	(14041424)
439170.17	3763192.51	0.05946	(15113024)	439220.17	3763192.51	0.06324	(15113024)
439270.17	3763192.51	0.06683	(15113024)	439320.17	3763192.51	0.06978	(15113024)

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        439370.17   3763192.51        0.07212  (15113024)               439420.17
3763192.51        0.07350  (15113024)
        439470.17   3763192.51        0.07330  (15113024)               439520.17
3763192.51        0.07142  (15113024)
        439570.17   3763192.51        0.06757  (15113024)               439620.17
3763192.51        0.06162  (15113024)
        439670.17   3763192.51        0.07060c (14041424)               439720.17
3763192.51        0.09252c (14041424)
        439770.17   3763192.51        0.11627c (14041424)               439820.17
3763192.51        0.13794c (14041424)
        439870.17   3763192.51        0.15233c (14041424)               439170.17
3763242.51        0.05566  (15113024)
        439220.17   3763242.51        0.05804  (15113024)               439270.17
3763242.51        0.05995  (15113024)
        439320.17   3763242.51        0.06109  (15113024)               439370.17
3763242.51        0.06133  (15113024)
        439420.17   3763242.51        0.06041  (15113024)               439470.17
3763242.51        0.05802  (15113024)
        439520.17   3763242.51        0.05425  (15113024)               439570.17
3763242.51        0.04905  (15113024)
        439620.17   3763242.51        0.05522c (14041424)               439670.17
3763242.51        0.07237c (14041424)
        439720.17   3763242.51        0.09129c (14041424)               439770.17
3763242.51        0.10999c (14041424)
        439820.17   3763242.51        0.12498c (14041424)               439870.17
3763242.51        0.13282c (14041424)
        439170.17   3763292.51        0.05049  (15113024)               439220.17
3763292.51        0.05140  (15113024)
        439270.17   3763292.51        0.05178  (15113024)               439320.17
3763292.51        0.05140  (15113024)
        439370.17   3763292.51        0.05015  (15113024)               439420.17
3763292.51        0.04763  (15113024)
        439470.17   3763292.51        0.04405  (15113024)               439520.17
3763292.51        0.03953  (14120824)
        439570.17   3763292.51        0.04353c (14041424)               439620.17
3763292.51        0.05715c (14041424)
        439670.17   3763292.51        0.07261c (14041424)               439720.17
3763292.51        0.08839c (14041424)
        439770.17   3763292.51        0.10238c (14041424)               439820.17
3763292.51        0.11222c (14041424)
        439870.17   3763292.51        0.11548c (14041424)               439170.17
3763342.51        0.04443  (15113024)
        439220.17   3763342.51        0.04421  (15113024)               439270.17
3763342.51        0.04348  (15113024)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:16:14

                                  PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	0.04192	(15113024)	439370.17	3763342.51	0.03962	(15113024)
439420.17	3763342.51	0.03637	(15113024)	439470.17	3763342.51	0.03452	(14120824)
439520.17	3763342.51	0.03473c	(14041424)	439570.17	3763342.51	0.04568c	(14041424)
439620.17	3763342.51	0.05832c	(14041424)	439670.17	3763342.51	0.07167c	(14041424)
439720.17	3763342.51	0.08439c	(14041424)	439770.17	3763342.51	0.09442c	(14041424)
439820.17	3763342.51	0.10017c	(14041424)	439870.17	3763342.51	0.10008c	(14041424)
439170.17	3763392.51	0.03797	(15113024)	439220.17	3763392.51	0.03689	(15113024)
439270.17	3763392.51	0.03535	(15113024)	439320.17	3763392.51	0.03302	(15113024)
439370.17	3763392.51	0.03091	(14120824)	439420.17	3763392.51	0.03052	(14120824)
439470.17	3763392.51	0.02989	(14120824)	439520.17	3763392.51	0.03690c	(14041424)
439570.17	3763392.51	0.04722c	(14041424)	439620.17	3763392.51	0.05854c	(14041424)
439670.17	3763392.51	0.06971c	(14041424)	439720.17	3763392.51	0.07963c	(14041424)
439770.17	3763392.51	0.08644c	(14041424)	439820.17	3763392.51	0.08904c	(14041424)
439870.17	3763392.51	0.08660	(15110924)	439170.17	3763442.51	0.03157	(15113024)
439220.17	3763442.51	0.02992	(15113024)	439270.17	3763442.51	0.02811	(14120824)
439320.17	3763442.51	0.02782	(14120824)	439370.17	3763442.51	0.02736	(14120824)
439420.17	3763442.51	0.02670	(14120824)	439470.17	3763442.51	0.03009c	(14041424)
439520.17	3763442.51	0.03860c	(14041424)	439570.17			

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3763442.51        0.04803c (14041424)
        439620.17   3763442.51        0.05788c (14041424)                439670.17
3763442.51        0.06701c (14041424)
        439720.17   3763442.51        0.07433c (14041424)                439770.17
3763442.51        0.07853c (14041424)
        439820.17   3763442.51        0.07881c (14041424)                439870.17
3763442.51        0.07784  (15110924)
        439203.20   3762911.16        0.09844  (12020624)                439253.20
3762911.16        0.10583  (12020624)
        439303.20   3762911.16        0.11426  (12020624)                439353.20
3762911.16        0.12407  (12020624)
        439403.20   3762911.16        0.13505  (12020624)                439453.20
3762911.16        0.14759  (12020624)
        439503.20   3762911.16        0.16211  (12020624)                439553.20
3762911.16        0.17832  (12020624)
        439203.20   3762961.16        0.09217  (12020624)                439253.20
3762961.16        0.09778  (12020624)
        439303.20   3762961.16        0.10376  (12020624)                439353.20
3762961.16        0.11031  (12020624)
        439403.20   3762961.16        0.11721  (12020624)                439453.20
3762961.16        0.12432  (12020624)
        439503.20   3762961.16        0.13163  (12020624)                439553.20
3762961.16        0.14709  (16010424)
        439203.20   3763011.16        0.08164  (12020624)                439253.20
3763011.16        0.08488  (12020624)
        439303.20   3763011.16        0.08803  (12020624)                439353.20
3763011.16        0.09217  (16010424)
        439403.20   3763011.16        0.10141  (16010424)                439453.20
3763011.16        0.11141  (15113024)
        439503.20   3763011.16        0.12434  (15113024)                439553.20
3763011.16        0.13784  (15113024)
        439203.20   3763061.16        0.06849  (16010424)                439253.20
3763061.16        0.07430  (16010424)
        439303.20   3763061.16        0.08043  (16010424)                439353.20
3763061.16        0.08814  (15113024)
        439403.20   3763061.16        0.09681  (15113024)                439453.20
3763061.16        0.10581  (15113024)
        439503.20   3763061.16        0.11467  (15113024)                439553.20
3763061.16        0.12275  (15113024)
        439196.01   3762392.48        0.10935  (14120124)                439246.01
3762392.48        0.11891  (14120124)
        439296.01   3762392.48        0.12989  (14120124)                439346.01
3762392.48        0.14271  (14120124)
        439396.01   3762392.48        0.15797  (14120124)                439446.01
3762392.48        0.17643  (14120124)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        22:16:14

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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	0.19940	(14120124)	439546.01	3762392.48	0.22870	(14120124)
439196.01	3762442.48	0.11081	(14120124)	439246.01	3762442.48	0.12101	(14120124)
439296.01	3762442.48	0.13272	(14120124)	439346.01	3762442.48	0.14642	(14120124)
439396.01	3762442.48	0.16255	(14120124)	439446.01	3762442.48	0.18199	(14120124)
439496.01	3762442.48	0.20591	(14120124)	439546.01	3762442.48	0.23584	(14120124)
439196.01	3762492.48	0.10918	(14120124)	439246.01	3762492.48	0.11976	(14120124)
439296.01	3762492.48	0.13195	(14120124)	439346.01	3762492.48	0.14616	(14120124)
439396.01	3762492.48	0.16298	(14120124)	439446.01	3762492.48	0.18310	(14120124)
439496.01	3762492.48	0.20749	(14120124)	439546.01	3762492.48	0.23752	(14120124)
439196.01	3762542.48	0.10466	(14120124)	439246.01	3762542.48	0.11527	(14120124)
439296.01	3762542.48	0.12759	(14120124)	439346.01	3762542.48	0.14206	(14120124)
439396.01	3762542.48	0.15920	(14120124)	439446.01	3762542.48	0.17982	(14120124)
439496.01	3762542.48	0.20484	(14120124)	439546.01	3762542.48	0.23581	(14120124)
439196.01	3762592.48	0.09731	(14120124)	439246.01	3762592.48	0.10752	(14120124)
439296.01	3762592.48	0.11954	(14120124)	439346.01	3762592.48	0.13381	(14120124)
439396.01	3762592.48	0.15092	(14120124)	439446.01	3762592.48	0.17170	(14120124)
439496.01	3762592.48	0.19737	(14120124)	439546.01	3762592.48	0.22976	(14120124)

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        439196.01   3762642.48        0.08746  (14120124)               439246.01
3762642.48        0.09689  (14120124)
        439296.01   3762642.48        0.10813  (14120124)               439346.01
3762642.48        0.12160  (14120124)
        439396.01   3762642.48        0.13789  (14120124)               439446.01
3762642.48        0.15805  (14120124)
        439496.01   3762642.48        0.18344  (14120124)               439546.01
3762642.48        0.21625  (14120124)
        439196.01   3762692.48        0.08455  (12020624)               439246.01
3762692.48        0.09296  (12020624)
        439296.01   3762692.48        0.10241  (12020624)               439346.01
3762692.48        0.11327  (12020624)
        439396.01   3762692.48        0.12579  (12020624)               439446.01
3762692.48        0.14021  (12020624)
        439496.01   3762692.48        0.16170  (14120124)               439546.01
3762692.48        0.19238  (14120124)
        439196.01   3762742.48        0.09082  (12020624)               439246.01
3762742.48        0.09941  (12020624)
        439296.01   3762742.48        0.10899  (12020624)               439346.01
3762742.48        0.12015  (12020624)
        439396.01   3762742.48        0.13318  (12020624)               439446.01
3762742.48        0.14870  (12020624)
        439496.01   3762742.48        0.16729  (12020624)               439546.01
3762742.48        0.19113  (12020624)
        439196.01   3762792.48        0.09580  (12020624)               439246.01
3762792.48        0.10464  (12020624)
        439296.01   3762792.48        0.11446  (12020624)               439346.01
3762792.48        0.12599  (12020624)
        439396.01   3762792.48        0.13980  (12020624)               439446.01
3762792.48        0.15674  (12020624)
        439496.01   3762792.48        0.17748  (12020624)               439546.01
3762792.48        0.20420  (12020624)
        439196.01   3762842.48        0.09874  (12020624)               439246.01
3762842.48        0.10747  (12020624)
        439296.01   3762842.48        0.11734  (12020624)               439346.01
3762842.48        0.12890  (12020624)
        439396.01   3762842.48        0.14259  (12020624)               439446.01
3762842.48        0.15929  (12020624)
        439496.01   3762842.48        0.17963  (12020624)               439546.01
3762842.48        0.20514  (12020624)
        439573.31   3762470.54        0.25672  (14120124)               439623.31
3762470.54        0.29814  (14120124)
        439673.31   3762470.54        0.35023  (14120124)               439723.31
3762470.54        0.41833  (14120124)
        439773.31   3762470.54        0.51453  (14120124)               439823.31
3762470.54        0.66870  (14120124)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        22:16:14
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	0.97224	(14120124)	439573.31	3762520.54	0.25639	(14120124)
439623.31	3762520.54	0.29724	(14120124)	439673.31	3762520.54	0.34598	(14120124)
439723.31	3762520.54	0.40467	(14120124)	439773.31	3762520.54	0.47652	(14120124)
439823.31	3762520.54	0.56627	(14120124)	439873.31	3762520.54	0.70717	(12020624)
439573.31	3762570.54	0.25352	(14120124)	439623.31	3762570.54	0.29708	(14120124)
439673.31	3762570.54	0.35010	(14120124)	439723.31	3762570.54	0.41498	(14120124)
439773.31	3762570.54	0.49566	(14120124)	439823.31	3762570.54	0.59799	(14120124)
439873.31	3762570.54	0.72826	(14120124)	439573.31	3762620.54	0.24503	(14120124)
439623.31	3762620.54	0.29266	(14120124)	439673.31	3762620.54	0.35395	(14120124)
439723.31	3762620.54	0.43475	(14120124)	439773.31	3762620.54	0.54737	(14120124)
439823.31	3762620.54	0.71503	(14120124)	439873.31	3762620.54	0.99951	(14120124)
439573.31	3762670.54	0.22576	(14120124)	439623.31	3762670.54	0.27387	(14120124)
439673.31	3762670.54	0.33952	(14120124)	439723.31	3762670.54	0.43084	(14120124)
439773.31	3762670.54	0.56421	(14120124)	439823.31	3762670.54	0.77365	(14120124)
439873.31	3762670.54	1.13477	(14120124)	439152.35	3761448.92	0.06789c	(12121724)
439202.35	3761448.92	0.06604c	(12121724)	439252.35	3761448.92	0.06376c	(12121724)
439302.35	3761448.92	0.06100c	(12121724)	439352.35			

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3761448.92        0.07421  (12122424)
        439402.35   3761448.92        0.08988  (12122424)                439452.35
3761448.92        0.10529  (12122424)
        439502.35   3761448.92        0.11888  (12122424)                439552.35
3761448.92        0.12896  (12122424)
        439152.35   3761498.92        0.07167c (12121724)                439202.35
3761498.92        0.07030c (12121724)
        439252.35   3761498.92        0.06845c (12121724)                439302.35
3761498.92        0.06600c (12121724)
        439352.35   3761498.92        0.06948  (12122424)                439402.35
3761498.92        0.08634  (12122424)
        439452.35   3761498.92        0.10380  (12122424)                439502.35
3761498.92        0.12032  (12122424)
        439552.35   3761498.92        0.13402  (12122424)                439152.35
3761548.92        0.07526c (12121724)
        439202.35   3761548.92        0.07439c (12121724)                439252.35
3761548.92        0.07302c (12121724)
        439302.35   3761548.92        0.07104c (12121724)                439352.35
3761548.92        0.06849c (12121724)
        439402.35   3761548.92        0.08166  (12122424)                439452.35
3761548.92        0.10085  (12122424)
        439502.35   3761548.92        0.12019  (12122424)                439552.35
3761548.92        0.13767  (12122424)
        439152.35   3761598.92        0.07855c (12121724)                439202.35
3761598.92        0.07827c (12121724)
        439252.35   3761598.92        0.07749c (12121724)                439302.35
3761598.92        0.07613c (12121724)
        439352.35   3761598.92        0.07413c (12121724)                439402.35
3761598.92        0.07592  (12122424)
        439452.35   3761598.92        0.09641  (12122424)                439502.35
3761598.92        0.11825  (12122424)
        439552.35   3761598.92        0.13951  (12122424)                439152.35
3761648.92        0.08145c (12121724)
        439202.35   3761648.92        0.08186c (12121724)                439252.35
3761648.92        0.08179c (12121724)
        439302.35   3761648.92        0.08115c (12121724)                439352.35
3761648.92        0.07986c (12121724)
        439402.35   3761648.92        0.07794c (12121724)                439452.35
3761648.92        0.09056  (12122424)
        439502.35   3761648.92        0.11441  (12122424)                439552.35
3761648.92        0.13921  (12122424)
        439152.35   3761698.92        0.08388c (12121724)                439202.35
3761698.92        0.08502c (12121724)
        439252.35   3761698.92        0.08572c (12121724)                439302.35
3761698.92        0.08592c (12121724)
        439352.35   3761698.92        0.08553c (12121724)                439402.35
3761698.92        0.08448c (12121724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       22:16:14
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	0.08345	(12122424)	439502.35	3761698.92	0.10870	(12122424)
439552.35	3761698.92	0.13656	(12122424)	439152.35	3761748.92	0.08569c	(12121724)
439202.35	3761748.92	0.08765c	(12121724)	439252.35	3761748.92	0.08920c	(12121724)
439302.35	3761748.92	0.09036c	(12121724)	439352.35	3761748.92	0.09098c	(12121724)
439402.35	3761748.92	0.09095c	(12121724)	439452.35	3761748.92	0.09018c	(12121724)
439502.35	3761748.92	0.10129	(12122424)	439552.35	3761748.92	0.13149	(12122424)
439152.35	3761798.92	0.08681c	(12121724)	439202.35	3761798.92	0.08963c	(12121724)
439252.35	3761798.92	0.09214c	(12121724)	439302.35	3761798.92	0.09433c	(12121724)
439352.35	3761798.92	0.09605c	(12121724)	439402.35	3761798.92	0.09726c	(12121724)
439452.35	3761798.92	0.09782c	(12121724)	439502.35	3761798.92	0.09752c	(12121724)
439552.35	3761798.92	0.12395	(12122424)	439152.35	3761848.92	0.08711c	(12121724)
439202.35	3761848.92	0.09078c	(12121724)	439252.35	3761848.92	0.09427c	(12121724)
439302.35	3761848.92	0.09758c	(12121724)	439352.35	3761848.92	0.10056c	(12121724)
439402.35	3761848.92	0.10320c	(12121724)	439452.35	3761848.92	0.10528c	(12121724)
439502.35	3761848.92	0.10667c	(12121724)	439552.35	3761848.92	0.11424	(12122424)
439152.35	3761898.92	0.08654c	(12121724)	439202.35	3761898.92	0.09103c	(12121724)

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        439252.35   3761898.92        0.09552c (12121724)                439302.35
3761898.92        0.10000c (12121724)
        439352.35   3761898.92        0.10434c (12121724)                439402.35
3761898.92        0.10848c (12121724)
        439452.35   3761898.92        0.11232c (12121724)                439502.35
3761898.92        0.11569c (12121724)
        439552.35   3761898.92        0.11835c (12121724)                439152.35
3761948.92        0.08502c (12121724)
        439202.35   3761948.92        0.09026c (12121724)                439252.35
3761948.92        0.09568c (12121724)
        439302.35   3761948.92        0.10133c (12121724)                439352.35
3761948.92        0.10706c (12121724)
        439402.35   3761948.92        0.11284c (12121724)                439452.35
3761948.92        0.11860c (12121724)
        439502.35   3761948.92        0.12420c (12121724)                439552.35
3761948.92        0.12944c (12121724)
        439152.35   3761998.92        0.08254c (12121724)                439202.35
3761998.92        0.08843c (12121724)
        439252.35   3761998.92        0.09470c (12121724)                439302.35
3761998.92        0.10142c (12121724)
        439352.35   3761998.92        0.10851c (12121724)                439402.35
3761998.92        0.11594c (12121724)
        439452.35   3761998.92        0.12372c (12121724)                439502.35
3761998.92        0.13177c (12121724)
        439552.35   3761998.92        0.13996c (12121724)                439152.35
3762048.92        0.07907c (12121724)
        439202.35   3762048.92        0.08554c (12121724)                439252.35
3762048.92        0.09254c (12121724)
        439302.35   3762048.92        0.10018c (12121724)                439352.35
3762048.92        0.10847c (12121724)
        439402.35   3762048.92        0.11748c (12121724)                439452.35
3762048.92        0.12727c (12121724)
        439502.35   3762048.92        0.13786c (12121724)                439552.35
3762048.92        0.14925c (12121724)
        439616.61   3761420.65        0.12828  (12122424)                439666.61
3761420.65        0.12335  (12122424)
        439716.61   3761420.65        0.11251  (12122424)                439766.61
3761420.65        0.09696  (12122424)
        439816.61   3761420.65        0.07871  (12122424)                439866.61
3761420.65        0.06433  (15010524)
        439616.61   3761470.65        0.13855  (12122424)                439666.61
3761470.65        0.13652  (12122424)
        439716.61   3761470.65        0.12744  (12122424)                439766.61
3761470.65        0.11220  (12122424)
        439816.61   3761470.65        0.09281  (12122424)                439866.61
3761470.65        0.07191  (12122424)
        439616.61   3761520.65        0.14837  (12122424)                439666.61
3761520.65        0.15013  (12122424)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	0.14371	(12122424)	439766.61	3761520.65	0.12954	(12122424)
439816.61	3761520.65	0.10942	(12122424)	439866.61	3761520.65	0.08632	(12122424)
439616.61	3761570.65	0.15727	(12122424)	439666.61	3761570.65	0.16378	(12122424)
439716.61	3761570.65	0.16118	(12122424)	439766.61	3761570.65	0.14911	(12122424)
439816.61	3761570.65	0.12895	(12122424)	439866.61	3761570.65	0.10382	(12122424)
440451.14	3762893.83	0.46199	(12032624)	440501.14	3762893.83	0.35430	(12032624)
440551.14	3762893.83	0.29536	(12042324)	440601.14	3762893.83	0.25750	(12042324)
440651.14	3762893.83	0.22235	(12042324)	440701.14	3762893.83	0.19261	(12042324)
440751.14	3762893.83	0.16857	(12042324)	440801.14	3762893.83	0.14989	(12042324)
440851.14	3762893.83	0.13513	(12042324)	440451.14	3762943.83	0.43152c	(12011624)
440501.14	3762943.83	0.33294	(12032624)	440551.14	3762943.83	0.27408	(12032624)
440601.14	3762943.83	0.22455	(12032624)	440651.14	3762943.83	0.19887	(12042324)
440701.14	3762943.83	0.18226	(12042324)	440751.14	3762943.83	0.16490	(12042324)
440801.14	3762943.83	0.14942	(12042324)	440851.14	3762943.83	0.13566	(12042324)
441116.67	3763135.31	0.07295b	(12043024)	441166.67	3763135.31	0.06851b	(12043024)
441116.67	3763185.31	0.06856b	(12043024)	441166.67			

3763185.31 0.06570b (12043024)
441116.67 3763235.31 0.06176b (12043024) 441166.67
3763235.31 0.06058b (12043024)
441116.67 3763285.31 0.05421 (12032624) 441166.67
3763285.31 0.05363b (12043024)
441116.67 3763335.31 0.05546 (12021324) 441166.67
3763335.31 0.04917 (12032624)
441116.67 3763385.31 0.05732 (13050624) 441166.67
3763385.31 0.05162 (12021324)
441116.67 3763435.31 0.05823 (13050624) 441166.67
3763435.31 0.05292 (12021324)
440433.43 3762815.13 0.56509 (12042324) 440483.43
3762815.13 0.42051 (12042324)
440533.43 3762815.13 0.32097 (12042324) 440583.43
3762815.13 0.26420b (12061124)
440633.43 3762815.13 0.22260b (12061124) 440683.43
3762815.13 0.19082b (12061124)
440733.43 3762815.13 0.16611b (12061124) 440783.43
3762815.13 0.14754 (12042324)
440833.43 3762815.13 0.13453 (12042324) 440883.43
3762815.13 0.12242 (12042324)
440933.43 3762815.13 0.11078 (12042324) 440983.43
3762815.13 0.09962 (12042324)
440433.43 3762865.13 0.53655 (12032624) 440483.43
3762865.13 0.40335 (12042324)
440533.43 3762865.13 0.33696 (12042324) 440583.43
3762865.13 0.27949 (12042324)
440633.43 3762865.13 0.23328 (12042324) 440683.43
3762865.13 0.19819 (12042324)
440733.43 3762865.13 0.17215 (12042324) 440783.43
3762865.13 0.15281 (12042324)
440833.43 3762865.13 0.13782 (12042324) 440883.43
3762865.13 0.12539 (12042324)
440933.43 3762865.13 0.11444 (12042324) 440983.43
3762865.13 0.10440 (12042324)
441118.27 3762686.02 0.08814c (13031824) 441168.27
3762686.02 0.08060c (13031824)
441118.27 3762736.02 0.08449b (12061124) 441168.27
3762736.02 0.07802b (12061124)
441118.27 3762786.02 0.08225b (12061124) 441168.27
3762786.02 0.07619b (12061124)
441118.27 3762836.02 0.07662b (12061124) 441168.27
3762836.02 0.07134b (12061124)
440411.67 3762093.41 0.19929 (12031224) 440461.67
3762093.41 0.18484 (12031224)
440511.67 3762093.41 0.17174 (12031224) 440561.67
3762093.41 0.15850 (12031224)
440611.67 3762093.41 0.14444 (12031224) 440411.67
3762143.41 0.22644 (12031224)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN   ***
                                INCLUDING SOURCE(S):   PAREA1   , PAREA2   , PAREA3   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                                ** CONC OF PM_10   IN MICROGRAMS/M**3   **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

```
        440906.61   3762058.86        0.09771m (12123124)                440956.61
3762058.86        0.09371m (12123124)
        441006.61   3762058.86        0.08960m (12123124)                441056.61
3762058.86        0.08546m (12123124)
        441106.61   3762058.86        0.08132m (12123124)                441156.61
3762058.86        0.07725m (12123124)
        440191.38   3762138.44        0.56559c (16011124)                440241.38
3762138.44        0.38380  (12031224)
        440291.38   3762138.44        0.30044  (12031224)                440341.38
3762138.44        0.25759  (12031224)
        440191.38   3762188.44        0.96823c (13110424)                440241.38
3762188.44        0.50739c (13110424)
        440291.38   3762188.44        0.34115m (12123124)                440341.38
3762188.44        0.28940  (12031224)
        440191.38   3762238.44        0.91063c (13110424)                440241.38
3762238.44        0.53169c (13110424)
        440291.38   3762238.44        0.39635c (13110424)                440341.38
3762238.44        0.33291  (12031224)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:16:14

                                   PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - -
        440407.86   3761497.84        7.69369  (12010924)                439943.36
3761716.33       11.03381m (13010324)
        439170.17   3763092.51        8.35978  (12011324)                439220.17
3763092.51        8.98470  (12011324)
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        439270.17   3763092.51        9.53480  (12011324)              439320.17
3763092.51       10.17383  (12011324)
        439370.17   3763092.51       10.86431  (12011324)              439420.17
3763092.51       11.61091  (12011324)
        439470.17   3763092.51       12.38711  (12011324)              439520.17
3763092.51       13.19188  (12011324)
        439570.17   3763092.51       14.31021  (12020424)              439620.17
3763092.51       15.61116  (12020424)
        439670.17   3763092.51       16.97843  (12020424)              439720.17
3763092.51       18.24343  (12020424)
        439770.17   3763092.51       19.12157  (12020424)              439820.17
3763092.51       19.33834  (12020424)
        439870.17   3763092.51       19.41165  (13112324)              439170.17
3763142.51        8.33440  (12011324)
        439220.17   3763142.51        8.80993  (12011324)              439270.17
3763142.51        9.30553  (12011324)
        439320.17   3763142.51        9.84252  (12011324)              439370.17
3763142.51       10.51030  (12020424)
        439420.17   3763142.51       11.20780  (12020424)              439470.17
3763142.51       11.98755  (12020424)
        439520.17   3763142.51       12.86779  (12020424)              439570.17
3763142.51       13.85595  (12020424)
        439620.17   3763142.51       14.87418  (12020424)              439670.17
3763142.51       15.74969  (12020424)
        439720.17   3763142.51       16.34660  (12020424)              439770.17
3763142.51       16.39127  (12020424)
        439820.17   3763142.51       16.41722  (13112324)              439870.17
3763142.51       17.49106  (13112324)
        439170.17   3763192.51        8.12433  (12011324)              439220.17
3763192.51        8.54857  (12020424)
        439270.17   3763192.51        9.13547  (12020424)              439320.17
3763192.51        9.78437  (12020424)
        439370.17   3763192.51       10.36080  (12020424)              439420.17
3763192.51       10.98428  (12020424)
        439470.17   3763192.51       11.69603  (12020424)              439520.17
3763192.51       12.44992  (12020424)
        439570.17   3763192.51       13.19291  (12020424)              439620.17
3763192.51       13.83906  (12020424)
        439670.17   3763192.51       14.22015  (12020424)              439720.17
3763192.51       14.14464  (12020424)
        439770.17   3763192.51       14.19419  (13112324)              439820.17
3763192.51       15.20239  (13112324)
        439870.17   3763192.51       15.75614  (13112324)              439170.17
3763242.51        8.06032  (12020424)
        439220.17   3763242.51        8.60890  (12020424)              439270.17
3763242.51        9.09976  (12020424)
        439320.17   3763242.51        9.64543  (12020424)              439370.17
3763242.51       10.15922  (12020424)
        439420.17   3763242.51       10.71347  (12020424)              439470.17
3763242.51       11.34080  (12020424)
        439520.17   3763242.51       11.88162  (12020424)              439570.17
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3763242.51       12.30589  (12020424)
        439620.17   3763242.51       12.52539  (12020424)                439670.17
3763242.51       12.42778  (12020424)
        439720.17   3763242.51       12.30640  (13112324)                439770.17
3763242.51       13.33609  (13112324)
        439820.17   3763242.51       14.14420  (13112324)                439870.17
3763242.51       14.44471  (13112324)
        439170.17   3763292.51        8.16838  (12020424)                439220.17
3763292.51        8.73807  (12020424)
        439270.17   3763292.51        9.19745  (12020424)                439320.17
3763292.51        9.61699  (12020424)
        439370.17   3763292.51        9.97737  (12020424)                439420.17
3763292.51       10.46379  (12020424)
        439470.17   3763292.51       10.91543  (12020424)                439520.17
3763292.51       11.21717  (12020424)
        439570.17   3763292.51       11.20666  (12020424)                439620.17
3763292.51       11.04051  (12020424)
        439670.17   3763292.51       10.73901  (13112324)                439720.17
3763292.51       11.72916  (13112324)
        439770.17   3763292.51       12.82131  (13112324)                439820.17
3763292.51       13.19280  (13112324)
        439870.17   3763292.51       12.97826  (13112324)                439170.17
3763342.51        8.21616  (12020424)
        439220.17   3763342.51        8.73796  (12020424)                439270.17
3763342.51        9.02158  (12020424)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:16:14

                                   PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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        439503.20   3762911.16       15.92607  (12122024)                439553.20
3762911.16       17.40744  (12122024)
        439203.20   3762961.16        9.73090  (12122024)                439253.20
3762961.16       10.35806  (12122024)
        439303.20   3762961.16       11.05313  (12122024)                439353.20
3762961.16       11.82926  (12122024)
        439403.20   3762961.16       12.68038  (12122024)                439453.20
3762961.16       13.59737  (12122024)
        439503.20   3762961.16       14.58588  (12122024)                439553.20
3762961.16       15.61498  (12122024)
        439203.20   3763011.16        9.27415  (12122024)                439253.20
3763011.16        9.81733  (12122024)
        439303.20   3763011.16       10.38429  (12122024)                439353.20
3763011.16       10.98167  (12122024)
        439403.20   3763011.16       11.57680  (12122024)                439453.20
3763011.16       12.62380  (12011324)
        439503.20   3763011.16       13.78502  (12011324)                439553.20
3763011.16       15.23335  (12011324)
        439203.20   3763061.16        8.70876  (12011324)                439253.20
3763061.16        9.40144  (12011324)
        439303.20   3763061.16       10.07069  (12011324)                439353.20
3763061.16       10.78742  (12011324)
        439403.20   3763061.16       11.58298  (12011324)                439453.20
3763061.16       12.45515  (12011324)
        439503.20   3763061.16       13.42887  (12011324)                439553.20
3763061.16       14.44352  (12011324)
        439196.01   3762392.48        8.36802  (14122624)                439246.01
3762392.48        9.32190  (14122624)
        439296.01   3762392.48       10.40820  (14122624)                439346.01
3762392.48       11.65034  (14122624)
        439396.01   3762392.48       13.06719  (14122624)                439446.01
3762392.48       14.67208  (14122624)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        22:16:14

                                    PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                   L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                   L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                   L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	16.64663	(16122724)	439546.01	3762392.48	19.14737	(16122724)
439196.01	3762442.48	8.32553	(16020824)	439246.01	3762442.48	9.01281	(12020624)
439296.01	3762442.48	9.88518	(12020624)	439346.01	3762442.48	10.96408	(14122624)
439396.01	3762442.48	12.38187	(14122624)	439446.01	3762442.48	14.07680	(16122724)
439496.01	3762442.48	16.15304	(16122724)	439546.01	3762442.48	18.67746	(16122724)
439196.01	3762492.48	8.32992	(12020624)	439246.01	3762492.48	9.08229	(12020624)
439296.01	3762492.48	9.96131	(12020624)	439346.01	3762492.48	10.98756	(12020624)
439396.01	3762492.48	12.27913	(12122024)	439446.01	3762492.48	13.84585	(12122024)
439496.01	3762492.48	15.74241	(12122024)	439546.01	3762492.48	18.04036	(12122024)
439196.01	3762542.48	8.56975	(12122024)	439246.01	3762542.48	9.42585	(12122024)
439296.01	3762542.48	10.42020	(12122024)	439346.01	3762542.48	11.56950	(12122024)
439396.01	3762542.48	12.91669	(12122024)	439446.01	3762542.48	14.49671	(12122024)
439496.01	3762542.48	16.38378	(12122024)	439546.01	3762542.48	18.62155	(12122024)
439196.01	3762592.48	8.99754	(12122024)	439246.01	3762592.48	9.86615	(12122024)
439296.01	3762592.48	10.85211	(12122024)	439346.01	3762592.48	11.97807	(12122024)
439396.01	3762592.48	13.27685	(12122024)	439446.01	3762592.48	14.78706	(12122024)
439496.01	3762592.48	16.56066	(12122024)	439546.01	3762592.48	18.62070	(12122024)
439196.01	3762642.48	9.32695	(12122024)	439246.01	3762642.48	10.17731	(12122024)
439296.01	3762642.48	11.12649	(12122024)	439346.01	3762642.48	12.19878	(12122024)
439396.01	3762642.48	13.43293	(12122024)	439446.01	3762642.48	14.84673	(12122024)
439496.01	3762642.48	16.48562	(12122024)	439546.01			

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3762642.48       18.36604  (12122024)
        439196.01   3762692.48        9.59423  (12122024)               439246.01
3762692.48       10.41976  (12122024)
        439296.01   3762692.48       11.34612  (12122024)               439346.01
3762692.48       12.38369  (12122024)
        439396.01   3762692.48       13.54541  (12122024)               439446.01
3762692.48       14.88096  (12122024)
        439496.01   3762692.48       16.42281  (12122024)               439546.01
3762692.48       18.18947  (12122024)
        439196.01   3762742.48        9.83330  (12122024)               439246.01
3762742.48       10.63841  (12122024)
        439296.01   3762742.48       11.54153  (12122024)               439346.01
3762742.48       12.54875  (12122024)
        439396.01   3762742.48       13.68452  (12122024)               439446.01
3762742.48       14.97860  (12122024)
        439496.01   3762742.48       16.48823  (12122024)               439546.01
3762742.48       18.25087  (12122024)
        439196.01   3762792.48       10.02728  (12122024)               439246.01
3762792.48       10.81148  (12122024)
        439296.01   3762792.48       11.69431  (12122024)               439346.01
3762792.48       12.68233  (12122024)
        439396.01   3762792.48       13.80223  (12122024)               439446.01
3762792.48       15.08814  (12122024)
        439496.01   3762792.48       16.61784  (12122024)               439546.01
3762792.48       18.44495  (12122024)
        439196.01   3762842.48       10.11774  (12122024)               439246.01
3762842.48       10.87816  (12122024)
        439296.01   3762842.48       11.72649  (12122024)               439346.01
3762842.48       12.68408  (12122024)
        439396.01   3762842.48       13.78250  (12122024)               439446.01
3762842.48       15.05805  (12122024)
        439496.01   3762842.48       16.57200  (12122024)               439546.01
3762842.48       18.36957  (12122024)
        439573.31   3762470.54       19.90510  (16122724)               439623.31
3762470.54       23.42484  (16122724)
        439673.31   3762470.54       27.76851  (16122724)               439723.31
3762470.54       33.19510  (16122724)
        439773.31   3762470.54       40.26532  (16122724)               439823.31
3762470.54       49.94513  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       22:16:14

                                   PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
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                L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439873.31   3762470.54       63.11154  (16122724)               439573.31
3762520.54       19.88056  (12122024)
        439623.31   3762520.54       22.98897  (12122024)               439673.31
3762520.54       27.01318  (16122724)
        439723.31   3762520.54       32.54129  (16122724)               439773.31
3762520.54       39.43345  (16122724)
        439823.31   3762520.54       48.07273  (16122724)               439873.31
3762520.54       61.53232  (16122724)
        439573.31   3762570.54       20.00566  (12122024)               439623.31
3762570.54       22.82332  (12122024)
        439673.31   3762570.54       26.20324  (12122024)               439723.31
3762570.54       31.21790  (16122724)
        439773.31   3762570.54       37.94306  (16122724)               439823.31
3762570.54       46.26177  (16122724)
        439873.31   3762570.54       57.29465  (16122724)               439573.31
3762620.54       19.68178  (12122024)
        439623.31   3762620.54       22.18811  (12122024)               439673.31
3762620.54       25.14981  (12122024)
        439723.31   3762620.54       28.94592  (16122724)               439773.31
3762620.54       35.45044  (16122724)
        439823.31   3762620.54       43.72348  (16122724)               439873.31
3762620.54       54.21189  (16122724)
        439573.31   3762670.54       19.34642  (12122024)               439623.31
3762670.54       21.68389  (12122024)
        439673.31   3762670.54       24.49768  (12122024)               439723.31
3762670.54       28.09478  (12122024)
        439773.31   3762670.54       32.96259  (12122024)               439823.31
3762670.54       40.84198  (12020624)
        439873.31   3762670.54       53.29176  (16122724)               439152.35
3761448.92        5.53494  (15031324)
        439202.35   3761448.92        5.60918  (15031324)               439252.35
3761448.92        5.64644  (15031324)
        439302.35   3761448.92        5.61966  (15031324)               439352.35
3761448.92        5.53035  (15031324)
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        439402.35   3761448.92        5.52758  (13010224)               439452.35
3761448.92        5.55612  (13010224)
        439502.35   3761448.92        5.58764  (15010624)               439552.35
3761448.92        5.77940  (16121624)
        439152.35   3761498.92        5.79852  (15031324)               439202.35
3761498.92        5.96265  (15031324)
        439252.35   3761498.92        6.08572  (15031324)               439302.35
3761498.92        6.09864  (15031324)
        439352.35   3761498.92        6.04717  (15031324)               439402.35
3761498.92        5.92442  (15031324)
        439452.35   3761498.92        5.92064  (13010224)               439502.35
3761498.92        5.92672  (13010224)
        439552.35   3761498.92        6.09902  (15010624)               439152.35
3761548.92        6.02151  (15031324)
        439202.35   3761548.92        6.25775  (15031324)               439252.35
3761548.92        6.44924  (15031324)
        439302.35   3761548.92        6.53905  (15031324)               439352.35
3761548.92        6.54595  (15031324)
        439402.35   3761548.92        6.49497  (15031324)               439452.35
3761548.92        6.35144  (15031324)
        439502.35   3761548.92        6.36139  (13010224)               439552.35
3761548.92        6.40408  (15010624)
        439152.35   3761598.92        6.19426  (15031324)               439202.35
3761598.92        6.50005  (15031324)
        439252.35   3761598.92        6.77438  (15031324)               439302.35
3761598.92        6.97334  (15031324)
        439352.35   3761598.92        7.06586  (15031324)               439402.35
3761598.92        7.10234  (15031324)
        439452.35   3761598.92        7.03921  (15031324)               439502.35
3761598.92        6.84861  (15031324)
        439552.35   3761598.92        6.86674  (13010224)               439152.35
3761648.92        6.30467  (15031324)
        439202.35   3761648.92        6.69944  (15031324)               439252.35
3761648.92        7.06956  (15031324)
        439302.35   3761648.92        7.37851  (15031324)               439352.35
3761648.92        7.59278  (15031324)
        439402.35   3761648.92        7.73270  (15031324)               439452.35
3761648.92        7.75592  (15031324)
        439502.35   3761648.92        7.67043  (15031324)               439552.35
3761648.92        7.45145  (15031324)
        439152.35   3761698.92        6.52773  (16122724)               439202.35
3761698.92        6.82788  (15031324)
        439252.35   3761698.92        7.27389  (15031324)               439302.35
3761698.92        7.70047  (15031324)
        439352.35   3761698.92        8.06684  (15031324)               439402.35
3761698.92        8.35264  (15031324)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                          ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        22:16:14
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	8.46504	(15031324)	439502.35	3761698.92	8.51354	(15031324)
439552.35	3761698.92	8.40383	(15031324)	439152.35	3761748.92	7.03470	(16122724)
439202.35	3761748.92	7.11589	(16122724)	439252.35	3761748.92	7.41858	(15031324)
439302.35	3761748.92	7.96118	(15031324)	439352.35	3761748.92	8.44829	(15031324)
439402.35	3761748.92	8.86705	(15031324)	439452.35	3761748.92	9.15712	(15031324)
439502.35	3761748.92	9.30504	(15031324)	439552.35	3761748.92	9.35707	(15031324)
439152.35	3761798.92	7.48846	(16122724)	439202.35	3761798.92	7.69408	(16122724)
439252.35	3761798.92	7.80434	(16122724)	439302.35	3761798.92	8.17652	(15031324)
439352.35	3761798.92	8.76462	(15031324)	439402.35	3761798.92	9.32583	(15031324)
439452.35	3761798.92	9.83398	(15031324)	439502.35	3761798.92	10.13673	(15031324)
439552.35	3761798.92	10.38298	(15031324)	439152.35	3761848.92	7.87532	(16122724)
439202.35	3761848.92	8.19833	(16122724)	439252.35	3761848.92	8.43718	(16122724)
439302.35	3761848.92	8.61732	(16122724)	439352.35	3761848.92	8.97007	(15031324)
439402.35	3761848.92	9.73635	(15031324)	439452.35			

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3761848.92       10.40814  (15031324)
        439502.35   3761848.92       10.91688  (15031324)                439552.35
3761848.92       11.40043  (15031324)
        439152.35   3761898.92        8.19216  (16122724)                439202.35
3761898.92        8.62357  (16122724)
        439252.35   3761898.92        8.99937  (16122724)                439302.35
3761898.92        9.36664  (16122724)
        439352.35   3761898.92        9.60333  (16122724)                439402.35
3761898.92       10.01696  (15031324)
        439452.35   3761898.92       10.93308  (15031324)                439502.35
3761898.92       11.74583  (15031324)
        439552.35   3761898.92       12.45184  (15031324)                439152.35
3761948.92        8.42291  (16122724)
        439202.35   3761948.92        8.95330  (16122724)                439252.35
3761948.92        9.45737  (16122724)
        439302.35   3761948.92       10.00071  (16122724)                439352.35
3761948.92       10.44981  (16122724)
        439402.35   3761948.92       10.77548  (16122724)                439452.35
3761948.92       11.29986  (15031324)
        439502.35   3761948.92       12.38897  (15031324)                439552.35
3761948.92       13.41193  (15031324)
        439152.35   3761998.92        8.71508  (14122624)                439202.35
3761998.92        9.18786  (16122724)
        439252.35   3761998.92        9.80510  (16122724)                439302.35
3761998.92       10.50827  (16122724)
        439352.35   3761998.92       11.17555  (16122724)                439402.35
3761998.92       11.72508  (16122724)
        439452.35   3761998.92       12.22821  (16122724)                439502.35
3761998.92       12.78222  (15031324)
        439552.35   3761998.92       14.13052  (15031324)                439152.35
3762048.92        9.02904  (14122624)
        439202.35   3762048.92        9.58077  (14122624)                439252.35
3762048.92       10.13721  (14122624)
        439302.35   3762048.92       10.91847  (16122724)                439352.35
3762048.92       11.73459  (16122724)
        439402.35   3762048.92       12.53366  (16122724)                439452.35
3762048.92       13.32808  (16122724)
        439502.35   3762048.92       14.03230  (16122724)                439552.35
3762048.92       14.67712  (15031324)
        439616.61   3761420.65        5.68101  (16121624)                439666.61
3761420.65        5.88769m (13010324)
        439716.61   3761420.65        6.31822m (13010324)                439766.61
3761420.65        6.62497m (13010324)
        439816.61   3761420.65        6.77476m (13010324)                439866.61
3761420.65        6.78479m (13010324)
        439616.61   3761470.65        6.07587  (16121624)                439666.61
3761470.65        6.11165  (13121424)
        439716.61   3761470.65        6.61898m (13010324)                439766.61
3761470.65        7.01081m (13010324)
        439816.61   3761470.65        7.23388m (13010324)                439866.61
3761470.65        7.30198m (13010324)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	6.93224m	(13010324)	439766.61	3761520.65	7.43305m	(13010324)
439816.61	3761520.65	7.74939m	(13010324)	439866.61	3761520.65	7.88132m	(13010324)
439616.61	3761570.65	6.90425	(15010624)	439666.61	3761570.65	7.03423	(13121424)
439716.61	3761570.65	7.25941m	(13010324)	439766.61	3761570.65	7.87971m	(13010324)
439816.61	3761570.65	8.31528m	(13010324)	439866.61	3761570.65	8.52294m	(13010324)
440451.14	3762893.83	49.53289	(12120224)	440501.14	3762893.83	43.37663	(12120224)
440551.14	3762893.83	37.62736	(12120224)	440601.14	3762893.83	32.89028	(12120224)
440651.14	3762893.83	28.82455	(12120224)	440701.14	3762893.83	25.36118	(12120224)
440751.14	3762893.83	22.15348	(12120224)	440801.14	3762893.83	19.76190m	(12050224)
440851.14	3762893.83	18.69979m	(12050224)	440451.14	3762943.83	39.29385	(12120224)

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        440501.14   3762943.83       36.92391  (12120224)                440551.14
3762943.83       33.84452  (12120224)
        440601.14   3762943.83       30.62637  (12120224)                440651.14
3762943.83       27.52996  (12120224)
        440701.14   3762943.83       24.74979  (14032624)                440751.14
3762943.83       22.31426  (14032624)
        440801.14   3762943.83       20.16871  (14032624)                440851.14
3762943.83       18.15184  (14032624)
        441116.67   3763135.31       12.48223  (14032624)                441166.67
3763135.31       11.56115  (14032624)
        441116.67   3763185.31       12.42513  (14032624)                441166.67
3763185.31       11.61578  (14032624)
        441116.67   3763235.31       12.03717  (14032624)                441166.67
3763235.31       11.41878  (14032624)
        441116.67   3763285.31       11.75474  (14032624)                441166.67
3763285.31       11.22370  (14032624)
        441116.67   3763335.31       11.13148  (12120224)                441166.67
3763335.31       10.69030  (14032624)
        441116.67   3763385.31       10.50031  (12120224)                441166.67
3763385.31       10.26816  (12120224)
        441116.67   3763435.31        9.75150  (12120224)                441166.67
3763435.31        9.65108  (12120224)
        440433.43   3762815.13       65.03665  (12120224)                440483.43
3762815.13       51.31221  (12120224)
        440533.43   3762815.13       42.62939m (12050224)                440583.43
3762815.13       37.45029m (12050224)
        440633.43   3762815.13       33.42160m (12050224)                440683.43
3762815.13       30.14315m (12050224)
        440733.43   3762815.13       27.40369m (12050224)                440783.43
3762815.13       25.12206m (12050224)
        440833.43   3762815.13       23.14569m (12050224)                440883.43
3762815.13       21.44669m (12050224)
        440933.43   3762815.13       19.91810m (12050224)                440983.43
3762815.13       18.57263m (12050224)
        440433.43   3762865.13       58.38789  (12120224)                440483.43
3762865.13       48.71373  (12120224)
        440533.43   3762865.13       41.04104  (12120224)                440583.43
3762865.13       35.06108  (12120224)
        440633.43   3762865.13       30.24032  (12120224)                440683.43
3762865.13       26.15640  (12120224)
        440733.43   3762865.13       23.89016m (12050224)                440783.43
3762865.13       22.26626m (12050224)
        440833.43   3762865.13       20.82287m (12050224)                440883.43
3762865.13       19.52506m (12050224)
        440933.43   3762865.13       18.33048m (12050224)                440983.43
3762865.13       17.25039m (12050224)
        441118.27   3762686.02       14.92004m (12050224)                441168.27
3762686.02       14.00555m (12050224)
        441118.27   3762736.02       15.67192m (12050224)                441168.27
3762736.02       14.68310m (12050224)
        441118.27   3762786.02       15.81034m (12050224)                441168.27
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3762786.02   14.85722m (12050224)
        441118.27   3762836.02   15.32463m (12050224)   441168.27
3762836.02   14.46379m (12050224)
        440411.67   3762093.41   17.86140 (12010924)   440461.67
3762093.41   16.21110 (14110424)
        440511.67   3762093.41   15.20277 (14110424)   440561.67
3762093.41   14.06218 (14110424)
        440611.67   3762093.41   12.78519 (14110424)   440411.67
3762143.41   19.65754 (12010924)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0013407   , L0013408
, L0013409   , L0013410   , L0013411   ,
                  L0013412   , L0013413   , L0013414   , L0013415   , L0013416
, L0013417   , L0013418   , L0013419   ,
                  L0013420   , L0013421   , L0013422   , L0013423   , L0013424
, L0013425   , L0013426   , L0013427   ,
                  L0013428   , L0013429   , L0013430   , L0013431   , L0013432
, L0013433   , L0013434   , . . .   ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440461.67   3762143.41   18.14341 (14110424)   440511.67
3762143.41   16.80641 (14110424)
        440561.67   3762143.41   15.28227 (14110424)   440611.67
3762143.41   13.68806 (14110424)
        440406.61   3762008.86   15.26078 (12010924)   440456.61
3762008.86   14.08643 (12010924)
        440506.61   3762008.86   12.85834 (14110424)   440556.61
3762008.86   12.13546 (14110424)
        440606.61   3762008.86   11.32078 (14110424)   440656.61
3762008.86   10.40961 (14110424)
        440706.61   3762008.86   9.45394 (14110424)   440756.61
3762008.86   8.52546 (14110424)
        440806.61   3762008.86   7.65561 (14110424)   440856.61

3762008.86   6.93910 (14110424)
        440906.61   3762008.86   6.76434b (14072524)   440956.61
3762008.86   6.74799b (14072524)
        441006.61   3762008.86   6.72697b (14072524)   441056.61
3762008.86   6.68140b (14072524)
        441106.61   3762008.86   6.63654b (14072524)   441156.61
3762008.86   6.57809b (14072524)
        440406.61   3762058.86   16.85191 (12010924)   440456.61
3762058.86   15.37431 (12010924)
        440506.61   3762058.86   14.24098 (14110424)   440556.61
3762058.86   13.31458 (14110424)
        440606.61   3762058.86   12.25872 (14110424)   440656.61
3762058.86   11.12747 (14110424)
        440706.61   3762058.86   10.00541 (14110424)   440756.61
3762058.86   8.95906 (14110424)
        440806.61   3762058.86   8.02903 (14110424)   440856.61
3762058.86   7.66698b (14072524)
        440906.61   3762058.86   7.62123b (14072524)   440956.61
3762058.86   7.56001b (14072524)
        441006.61   3762058.86   7.48918b (14072524)   441056.61
3762058.86   7.40777b (14072524)
        441106.61   3762058.86   7.30948b (14072524)   441156.61
3762058.86   7.19221b (14072524)
        440191.38   3762138.44   32.53388 (12010924)   440241.38
3762138.44   27.74086 (12010924)
        440291.38   3762138.44   24.46526 (12010924)   440341.38
3762138.44   22.06296 (12010924)
        440191.38   3762188.44   38.38961 (12010924)   440241.38
3762188.44   31.03284 (12010924)
        440291.38   3762188.44   27.30193 (12010924)   440341.38
3762188.44   24.73225 (12010924)
        440191.38   3762238.44   43.28734 (14110424)   440241.38
3762238.44   34.57952 (14110424)
        440291.38   3762238.44   30.69755 (12010924)   440341.38
3762238.44   27.82703 (12010924)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD (43848
HRS) RESULTS ***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
              **

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                        NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

P1ONRUN   1ST HIGHEST VALUE IS     15.50182 AT (  439873.31,  3762470.54,   214.70,
  214.70,    0.00)  DC
          2ND HIGHEST VALUE IS     14.24491 AT (  439873.31,  3762520.54,   215.18,
  215.18,    0.00)  DC
          3RD HIGHEST VALUE IS     13.99045 AT (  440433.43,  3762815.13,   219.62,
  219.62,    0.00)  DC
          4TH HIGHEST VALUE IS     12.40760 AT (  439873.31,  3762570.54,   215.86,
  215.86,    0.00)  DC
          5TH HIGHEST VALUE IS     11.56541 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
          6TH HIGHEST VALUE IS     11.33296 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
          7TH HIGHEST VALUE IS     11.06304 AT (  439873.31,  3762620.54,   216.53,
  216.53,    0.00)  DC
          8TH HIGHEST VALUE IS     10.36994 AT (  439873.31,  3762670.54,   217.06,
  217.06,    0.00)  DC
          9TH HIGHEST VALUE IS     10.36298 AT (  439823.31,  3762470.54,   214.39,
  214.39,    0.00)  DC
         10TH HIGHEST VALUE IS      9.75147 AT (  439823.31,  3762520.54,   214.76,
  214.76,    0.00)  DC

P1ONIDLE  1ST HIGHEST VALUE IS     17.34975 AT (  440433.43,  3762815.13,   219.62,
  219.62,    0.00)  DC
          2ND HIGHEST VALUE IS     17.21180 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          3RD HIGHEST VALUE IS     12.88361 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
          4TH HIGHEST VALUE IS     12.79993 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
          5TH HIGHEST VALUE IS     12.19469 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
          6TH HIGHEST VALUE IS     12.18977 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
          7TH HIGHEST VALUE IS     10.57708 AT (  440483.43,  3762865.13,   220.09,
  220.09,    0.00)  DC
          8TH HIGHEST VALUE IS     10.42350 AT (  439873.31,  3762470.54,   214.70,
  214.70,    0.00)  DC
          9TH HIGHEST VALUE IS     10.40293 AT (  439873.31,  3762670.54,   217.06,
  217.06,    0.00)  DC
         10TH HIGHEST VALUE IS     10.38143 AT (  439873.31,  3762620.54,   216.53,
  216.53,    0.00)  DC

P1GEN     1ST HIGHEST VALUE IS      0.04595 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          2ND HIGHEST VALUE IS      0.03572 AT (  440191.38,  3762188.44,   212.58,
```

```
  212.58,    0.00)  DC
         3RD HIGHEST VALUE IS       0.03218 AT (  440433.43,  3762815.13,   219.62,
  219.62,    0.00)  DC
         4TH HIGHEST VALUE IS       0.02485 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
         5TH HIGHEST VALUE IS       0.02365 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
         6TH HIGHEST VALUE IS       0.02080 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
         7TH HIGHEST VALUE IS       0.01908 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
         8TH HIGHEST VALUE IS       0.01836 AT (  440533.43,  3762815.13,   219.20,
  219.20,    0.00)  DC
         9TH HIGHEST VALUE IS       0.01707 AT (  440483.43,  3762865.13,   220.09,
  220.09,    0.00)  DC
        10TH HIGHEST VALUE IS       0.01682 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC

ALL       1ST HIGHEST VALUE IS      31.37238 AT (  440433.43,  3762815.13,   219.62,
  219.62,    0.00)  DC
         2ND HIGHEST VALUE IS      25.93434 AT (  439873.31,  3762470.54,   214.70,
  214.70,    0.00)  DC
         3RD HIGHEST VALUE IS      25.89899 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
         4TH HIGHEST VALUE IS      24.57904 AT (  439873.31,  3762520.54,   215.18,
  215.18,    0.00)  DC
         5TH HIGHEST VALUE IS      24.47268 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
         6TH HIGHEST VALUE IS      24.15369 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
         7TH HIGHEST VALUE IS      22.71063 AT (  439873.31,  3762570.54,   215.86,
  215.86,    0.00)  DC
         8TH HIGHEST VALUE IS      21.45239 AT (  439873.31,  3762620.54,   216.53,
  216.53,    0.00)  DC
         9TH HIGHEST VALUE IS      20.78114 AT (  439873.31,  3762670.54,   217.06,
  217.06,    0.00)  DC
        10TH HIGHEST VALUE IS      20.26113 AT (  440483.43,  3762865.13,   220.09,
  220.09,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid P1OP PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        22:16:14

                                  PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC (XR, YR, ZELEV, ZHILL, ZFLAG)	DATE (YYMMDDHH)	NETWORK OF TYPE GRID-ID	RECEPTOR
P1ONRUN	HIGH	1ST HIGH VALUE IS 37.55192	ON 16122724:	AT (439873.31, 3762470.54, 214.70, 214.70, 0.00)	DC
P1ONIDLE	HIGH	1ST HIGH VALUE IS 35.45622	ON 12120224:	AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC
P1GEN	HIGH	1ST HIGH VALUE IS 1.13477	ON 14120124:	AT (439873.31, 3762670.54, 217.06, 217.06, 0.00)	DC
ALL	HIGH	1ST HIGH VALUE IS 65.03665	ON 12120224:	AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1279 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 917 Calm Hours Identified

```
A Total of          362 Missing Hours Identified (  0.83 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    1421       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187    1421       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/5/2023
** File: C:\Lakes\OntarioEuclid_P2Ops_PM1024HR\OntarioEuclid_P2Ops_PM1024HR.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid Phase 2 Ops PM10 24HR
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_P2Ops_PM1024HR.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC Onsite Driveway 15
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440245.868, 3762473.161, 216.43, 3.11, 5.58
** 440247.108, 3762331.785, 213.64, 3.11, 5.58
** 440275.011, 3762331.785, 214.40, 3.11, 5.58
** 440274.391, 3762401.853, 214.97, 3.11, 5.58
** 440374.222, 3762403.713, 215.22, 3.11, 5.58
```

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** ----------------------------------------------------------------------
   LOCATION L0013572     VOLUME   440245.920 3762467.161 216.26
   LOCATION L0013573     VOLUME   440246.026 3762455.161 215.84
   LOCATION L0013574     VOLUME   440246.131 3762443.162 215.48
   LOCATION L0013575     VOLUME   440246.236 3762431.162 215.15
   LOCATION L0013576     VOLUME   440246.341 3762419.163 214.84
   LOCATION L0013577     VOLUME   440246.447 3762407.163 214.62
   LOCATION L0013578     VOLUME   440246.552 3762395.164 214.41
   LOCATION L0013579     VOLUME   440246.657 3762383.164 214.26
   LOCATION L0013580     VOLUME   440246.763 3762371.165 214.16
   LOCATION L0013581     VOLUME   440246.868 3762359.165 214.05
   LOCATION L0013582     VOLUME   440246.973 3762347.165 213.92
   LOCATION L0013583     VOLUME   440247.078 3762335.166 213.78
   LOCATION L0013584     VOLUME   440255.727 3762331.785 213.97
   LOCATION L0013585     VOLUME   440267.727 3762331.785 214.30
   LOCATION L0013586     VOLUME   440274.969 3762336.501 214.51
   LOCATION L0013587     VOLUME   440274.863 3762348.501 214.61
   LOCATION L0013588     VOLUME   440274.757 3762360.500 214.71
   LOCATION L0013589     VOLUME   440274.651 3762372.500 214.78
   LOCATION L0013590     VOLUME   440274.545 3762384.499 214.86
   LOCATION L0013591     VOLUME   440274.438 3762396.499 214.95
   LOCATION L0013592     VOLUME   440281.036 3762401.977 215.04
   LOCATION L0013593     VOLUME   440293.033 3762402.200 215.13
   LOCATION L0013594     VOLUME   440305.031 3762402.424 215.12
   LOCATION L0013595     VOLUME   440317.029 3762402.647 215.09
   LOCATION L0013596     VOLUME   440329.027 3762402.871 215.09
   LOCATION L0013597     VOLUME   440341.025 3762403.094 215.10
   LOCATION L0013598     VOLUME   440353.023 3762403.318 215.13
   LOCATION L0013599     VOLUME   440365.021 3762403.542 215.17
** End of LINE VOLUME Source ID = SLINE40
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC PA 2 Idling
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 2
** 440261.990, 3762476.881, 217.47, 3.66, 5.58
** 440259.509, 3762341.086, 214.24, 3.66, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013628     VOLUME   440261.880 3762470.882 216.82
   LOCATION L0013629     VOLUME   440261.661 3762458.884 216.16
   LOCATION L0013630     VOLUME   440261.442 3762446.886 215.67
   LOCATION L0013631     VOLUME   440261.223 3762434.888 215.38
   LOCATION L0013632     VOLUME   440261.003 3762422.890 215.08
   LOCATION L0013633     VOLUME   440260.784 3762410.892 214.92
   LOCATION L0013634     VOLUME   440260.565 3762398.894 214.76
```

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   LOCATION L0013635     VOLUME   440260.346 3762386.896 214.62
   LOCATION L0013636     VOLUME   440260.127 3762374.898 214.52
   LOCATION L0013637     VOLUME   440259.908 3762362.900 214.42
   LOCATION L0013638     VOLUME   440259.689 3762350.902 214.29
** End of LINE VOLUME Source ID = SLINE41
   LOCATION PAREA4       AREAPOLY   440194.402  3762471.300      216.050
** DESCRSRC Generator P2
** Source Parameters **
** LINE VOLUME Source ID = SLINE40
   SRCPARAM L0013572     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013573     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013574     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013575     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013576     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013577     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013578     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013579     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013580     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013581     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013582     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013583     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013584     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013585     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013586     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013587     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013588     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013589     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013590     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013591     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013592     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013593     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013594     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013595     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013596     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013597     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013598     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013599     0.0357142857      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE41
   SRCPARAM L0013628     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013629     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013630     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013631     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013632     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013633     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013634     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013635     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013636     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013637     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013638     0.0909090909      3.66      5.58      3.40
** ------------------------------------------------------------------
```

```
   SRCPARAM PAREA4       0.000049824     5.000         5
   AREAVERT PAREA4       440194.402 3762471.300 440340.118 3762473.161
   AREAVERT PAREA4       440342.598 3762333.645 440201.843 3762331.165
   AREAVERT PAREA4       440193.782 3762474.401
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP P2ONSITE L0013572 L0013573 L0013574 L0013575 L0013576 L0013577
   SRCGROUP P2ONSITE L0013578 L0013579 L0013580 L0013581 L0013582 L0013583
   SRCGROUP P2ONSITE L0013584 L0013585 L0013586 L0013587 L0013588 L0013589
   SRCGROUP P2ONSITE L0013590 L0013591 L0013592 L0013593 L0013594 L0013595
   SRCGROUP P2ONSITE L0013596 L0013597 L0013598 L0013599
   SRCGROUP P2IDLE   L0013628 L0013629 L0013630 L0013631 L0013632 L0013633
   SRCGROUP P2IDLE   L0013634 L0013635 L0013636 L0013637 L0013638
   SRCGROUP P2GEN    PAREA4
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_P2Ops_PM1024HR.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
```

```
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\24H1GALL.PLT 32
   PLOTFILE 1 P2ONSITE 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\01H1G001.PLT 33
   PLOTFILE 24 P2ONSITE 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\24H1G001.PLT 34
   PLOTFILE 1 P2IDLE 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\01H1G002.PLT 35
   PLOTFILE 24 P2IDLE 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\24H1G002.PLT 36
   PLOTFILE 1 P2GEN 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\01H1G003.PLT 37
   PLOTFILE 24 P2GEN 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\24H1G003.PLT 38
   PLOTFILE PERIOD ALL ONTARIOEUCLID_P2OPS_PM1024HR.AD\PE00GALL.PLT 39
   PLOTFILE PERIOD P2ONSITE ONTARIOEUCLID_P2OPS_PM1024HR.AD\PE00G001.PLT 40
   PLOTFILE PERIOD P2IDLE ONTARIOEUCLID_P2OPS_PM1024HR.AD\PE00G002.PLT 41
   PLOTFILE PERIOD P2GEN ONTARIOEUCLID_P2OPS_PM1024HR.AD\PE00G003.PLT 42
   SUMMFILE OntarioEuclid_P2Ops_PM1024HR.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/5/2023
** File: C:\Lakes\OntarioEuclid_P2Ops_PM1024HR\OntarioEuclid_P2Ops_PM1024HR.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid Phase 2 Ops PM10 24HR
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2035210
   POLLUTID PM_10
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_P2Ops_PM1024HR.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC Onsite Driveway 15
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440245.868, 3762473.161, 216.43, 3.11, 5.58
** 440247.108, 3762331.785, 213.64, 3.11, 5.58
** 440275.011, 3762331.785, 214.40, 3.11, 5.58
** 440274.391, 3762401.853, 214.97, 3.11, 5.58
```

```
** 440374.222, 3762403.713, 215.22, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013572     VOLUME   440245.920 3762467.161 216.26
   LOCATION L0013573     VOLUME   440246.026 3762455.161 215.84
   LOCATION L0013574     VOLUME   440246.131 3762443.162 215.48
   LOCATION L0013575     VOLUME   440246.236 3762431.162 215.15
   LOCATION L0013576     VOLUME   440246.341 3762419.163 214.84
   LOCATION L0013577     VOLUME   440246.447 3762407.163 214.62
   LOCATION L0013578     VOLUME   440246.552 3762395.164 214.41
   LOCATION L0013579     VOLUME   440246.657 3762383.164 214.26
   LOCATION L0013580     VOLUME   440246.763 3762371.165 214.16
   LOCATION L0013581     VOLUME   440246.868 3762359.165 214.05
   LOCATION L0013582     VOLUME   440246.973 3762347.165 213.92
   LOCATION L0013583     VOLUME   440247.078 3762335.166 213.78
   LOCATION L0013584     VOLUME   440255.727 3762331.785 213.97
   LOCATION L0013585     VOLUME   440267.727 3762331.785 214.30
   LOCATION L0013586     VOLUME   440274.969 3762336.501 214.51
   LOCATION L0013587     VOLUME   440274.863 3762348.501 214.61
   LOCATION L0013588     VOLUME   440274.757 3762360.500 214.71
   LOCATION L0013589     VOLUME   440274.651 3762372.500 214.78
   LOCATION L0013590     VOLUME   440274.545 3762384.499 214.86
   LOCATION L0013591     VOLUME   440274.438 3762396.499 214.95
   LOCATION L0013592     VOLUME   440281.036 3762401.977 215.04
   LOCATION L0013593     VOLUME   440293.033 3762402.200 215.13
   LOCATION L0013594     VOLUME   440305.031 3762402.424 215.12
   LOCATION L0013595     VOLUME   440317.029 3762402.647 215.09
   LOCATION L0013596     VOLUME   440329.027 3762402.871 215.09
   LOCATION L0013597     VOLUME   440341.025 3762403.094 215.10
   LOCATION L0013598     VOLUME   440353.023 3762403.318 215.13
   LOCATION L0013599     VOLUME   440365.021 3762403.542 215.17
** End of LINE VOLUME Source ID = SLINE40
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC PA 2 Idling
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 2
** 440261.990, 3762476.881, 217.47, 3.66, 5.58
** 440259.509, 3762341.086, 214.24, 3.66, 5.58
** ----------------------------------------------------------------
   LOCATION L0013628     VOLUME   440261.880 3762470.882 216.82
   LOCATION L0013629     VOLUME   440261.661 3762458.884 216.16
   LOCATION L0013630     VOLUME   440261.442 3762446.886 215.67
   LOCATION L0013631     VOLUME   440261.223 3762434.888 215.38
   LOCATION L0013632     VOLUME   440261.003 3762422.890 215.08
   LOCATION L0013633     VOLUME   440260.784 3762410.892 214.92
```

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   LOCATION L0013634     VOLUME   440260.565 3762398.894 214.76
   LOCATION L0013635     VOLUME   440260.346 3762386.896 214.62
   LOCATION L0013636     VOLUME   440260.127 3762374.898 214.52
   LOCATION L0013637     VOLUME   440259.908 3762362.900 214.42
   LOCATION L0013638     VOLUME   440259.689 3762350.902 214.29
** End of LINE VOLUME Source ID = SLINE41
   LOCATION PAREA4       AREAPOLY   440194.402  3762471.300      216.050
** DESCRSRC Generator P2
** Source Parameters **
** LINE VOLUME Source ID = SLINE40
   SRCPARAM L0013572     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013573     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013574     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013575     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013576     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013577     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013578     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013579     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013580     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013581     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013582     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013583     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013584     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013585     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013586     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013587     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013588     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013589     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013590     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013591     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013592     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013593     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013594     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013595     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013596     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013597     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013598     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013599     0.0357142857      3.11      5.58      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE41
   SRCPARAM L0013628     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013629     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013630     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013631     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013632     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013633     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013634     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013635     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013636     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013637     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013638     0.0909090909      3.66      5.58      3.40
```

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** ------------------------------------------------------------------
   SRCPARAM PAREA4       0.000049824     5.000         5
   AREAVERT PAREA4       440194.402 3762471.300 440340.118 3762473.161
   AREAVERT PAREA4       440342.598 3762333.645 440201.843 3762331.165
   AREAVERT PAREA4       440193.782 3762474.401
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP P2ONSITE L0013572 L0013573 L0013574 L0013575 L0013576 L0013577
   SRCGROUP P2ONSITE L0013578 L0013579 L0013580 L0013581 L0013582 L0013583
   SRCGROUP P2ONSITE L0013584 L0013585 L0013586 L0013587 L0013588 L0013589
   SRCGROUP P2ONSITE L0013590 L0013591 L0013592 L0013593 L0013594 L0013595
   SRCGROUP P2ONSITE L0013596 L0013597 L0013598 L0013599
   SRCGROUP P2IDLE   L0013628 L0013629 L0013630 L0013631 L0013632 L0013633
   SRCGROUP P2IDLE   L0013634 L0013635 L0013636 L0013637 L0013638
   SRCGROUP P2GEN    PAREA4
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_P2Ops_PM1024HR.rou
RE FINISHED
**
**************************************
```

```
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\24H1GALL.PLT 32
   PLOTFILE 1 P2ONSITE 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\01H1G001.PLT 33
   PLOTFILE 24 P2ONSITE 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\24H1G001.PLT 34
   PLOTFILE 1 P2IDLE 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\01H1G002.PLT 35
   PLOTFILE 24 P2IDLE 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\24H1G002.PLT 36
   PLOTFILE 1 P2GEN 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\01H1G003.PLT 37
   PLOTFILE 24 P2GEN 1ST ONTARIOEUCLID_P2OPS_PM1024HR.AD\24H1G003.PLT 38
   PLOTFILE PERIOD ALL ONTARIOEUCLID_P2OPS_PM1024HR.AD\PE00GALL.PLT 39
   PLOTFILE PERIOD P2ONSITE ONTARIOEUCLID_P2OPS_PM1024HR.AD\PE00G001.PLT 40
   PLOTFILE PERIOD P2IDLE ONTARIOEUCLID_P2OPS_PM1024HR.AD\PE00G002.PLT 41
   PLOTFILE PERIOD P2GEN ONTARIOEUCLID_P2OPS_PM1024HR.AD\PE00G003.PLT 42
   SUMMFILE OntarioEuclid_P2Ops_PM1024HR.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***
```

```
   ********   WARNING MESSAGES   ********
 ME W186     214       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     214       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for    40 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_10
```

```
 **Model Calculates  2 Short Term Average(s) of:   1-HR  24-HR
    and Calculates PERIOD Averages

 **This Run Includes:     40 Source(s);       4 Source Group(s); and     528
Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     39 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   198.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                 ;
Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.8 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   OntarioEuclid_P2Ops_PM1024HR.err

 **File for Summary of Results:   OntarioEuclid_P2Ops_PM1024HR.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE VARY BY
L0013572	0	0.35714E-01	440245.9	3762467.2	216.3	3.11	5.58	2.89	YES
L0013573	0	0.35714E-01	440246.0	3762455.2	215.8	3.11	5.58	2.89	YES
L0013574	0	0.35714E-01	440246.1	3762443.2	215.5	3.11	5.58	2.89	YES
L0013575	0	0.35714E-01	440246.2	3762431.2	215.2	3.11	5.58	2.89	YES
L0013576	0	0.35714E-01	440246.3	3762419.2	214.8	3.11	5.58	2.89	YES
L0013577	0	0.35714E-01	440246.4	3762407.2	214.6	3.11	5.58	2.89	YES
L0013578	0	0.35714E-01	440246.6	3762395.2	214.4	3.11	5.58	2.89	YES
L0013579	0	0.35714E-01	440246.7	3762383.2	214.3	3.11	5.58	2.89	YES
L0013580	0	0.35714E-01	440246.8	3762371.2	214.2	3.11	5.58	2.89	YES
L0013581	0	0.35714E-01	440246.9	3762359.2	214.1	3.11	5.58	2.89	YES
L0013582	0	0.35714E-01	440247.0	3762347.2	213.9	3.11	5.58	2.89	YES
L0013583	0	0.35714E-01	440247.1	3762335.2	213.8	3.11	5.58	2.89	YES
L0013584	0	0.35714E-01	440255.7	3762331.8	214.0	3.11	5.58	2.89	YES
L0013585	0	0.35714E-01	440267.7	3762331.8	214.3	3.11	5.58	2.89	YES
L0013586	0	0.35714E-01	440275.0	3762336.5	214.5	3.11	5.58	2.89	YES

L0013587	0	0.35714E-01	440274.9	3762348.5	214.6	3.11	5.58	2.89 YES
L0013588	0	0.35714E-01	440274.8	3762360.5	214.7	3.11	5.58	2.89 YES
L0013589	0	0.35714E-01	440274.7	3762372.5	214.8	3.11	5.58	2.89 YES
L0013590	0	0.35714E-01	440274.5	3762384.5	214.9	3.11	5.58	2.89 YES
L0013591	0	0.35714E-01	440274.4	3762396.5	215.0	3.11	5.58	2.89 YES
L0013592	0	0.35714E-01	440281.0	3762402.0	215.0	3.11	5.58	2.89 YES
L0013593	0	0.35714E-01	440293.0	3762402.2	215.1	3.11	5.58	2.89 YES
L0013594	0	0.35714E-01	440305.0	3762402.4	215.1	3.11	5.58	2.89 YES
L0013595	0	0.35714E-01	440317.0	3762402.6	215.1	3.11	5.58	2.89 YES
L0013596	0	0.35714E-01	440329.0	3762402.9	215.1	3.11	5.58	2.89 YES
L0013597	0	0.35714E-01	440341.0	3762403.1	215.1	3.11	5.58	2.89 YES
L0013598	0	0.35714E-01	440353.0	3762403.3	215.1	3.11	5.58	2.89 YES
L0013599	0	0.35714E-01	440365.0	3762403.5	215.2	3.11	5.58	2.89 YES
L0013628	0	0.90909E-01	440261.9	3762470.9	216.8	3.66	5.58	3.40 YES
L0013629	0	0.90909E-01	440261.7	3762458.9	216.2	3.66	5.58	3.40 YES
L0013630	0	0.90909E-01	440261.4	3762446.9	215.7	3.66	5.58	3.40 YES
L0013631	0	0.90909E-01	440261.2	3762434.9	215.4	3.66	5.58	3.40 YES
L0013632	0	0.90909E-01	440261.0	3762422.9	215.1	3.66	5.58	3.40 YES
L0013633	0	0.90909E-01	440260.8	3762410.9	214.9	3.66	5.58	3.40 YES
L0013634	0	0.90909E-01	440260.6	3762398.9	214.8	3.66	5.58	3.40 YES
L0013635	0	0.90909E-01	440260.3	3762386.9	214.6	3.66	5.58	3.40 YES
L0013636	0	0.90909E-01	440260.1	3762374.9	214.5	3.66	5.58	3.40 YES
L0013637	0	0.90909E-01	440259.9	3762362.9	214.4	3.66	5.58	3.40 YES
L0013638	0	0.90909E-01	440259.7	3762350.9	214.3	3.66	5.58	3.40 YES

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA4	0	0.49824E-04	440194.4	3762471.3	216.1	5.00	5	0.00	YES	HRDOW7

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
P2ONSITE	L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,
P2IDLE	L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,
P2GEN	PAREA4 ,

```
  ALL        L0013572    , L0013573    , L0013574    , L0013575    , L0013576    ,
L0013577    , L0013578    , L0013579    ,

             L0013580    , L0013581    , L0013582    , L0013583    , L0013584    ,
L0013585    , L0013586    , L0013587    ,

             L0013588    , L0013589    , L0013590    , L0013591    , L0013592    ,
L0013593    , L0013594    , L0013595    ,

             L0013596    , L0013597    , L0013598    , L0013599    , L0013628    ,
L0013629    , L0013630    , L0013631    ,

             L0013632    , L0013633    , L0013634    , L0013635    , L0013636    ,
L0013637    , L0013638    , PAREA4      ,
```



```
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                  SOURCE IDs
  --------   ---------                                  ----------


              2035210.   L0013572    , L0013573    , L0013574    , L0013575    ,
L0013576    , L0013577    , L0013578    ,
 L0013579    ,

             L0013580    , L0013581    , L0013582    , L0013583    , L0013584    ,
L0013585    , L0013586    , L0013587    ,

             L0013588    , L0013589    , L0013590    , L0013591    , L0013592    ,
L0013593    , L0013594    , L0013595    ,

             L0013596    , L0013597    , L0013598    , L0013599    , L0013628    ,
L0013629    , L0013630    , L0013631    ,

             L0013632    , L0013633    , L0013634    , L0013635    , L0013636    ,
L0013637    , L0013638    , PAREA4      ,
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA4 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.1000E+01	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(440407.9, 3761497.8, 205.4, 205.4, 0.0); (439943.4, 3761716.3, 206.8, 206.8, 0.0);
(439170.2, 3763092.5, 220.1, 220.1, 0.0); (439220.2, 3763092.5, 220.7, 220.7, 0.0);
(439270.2, 3763092.5, 220.6, 220.6, 0.0); (439320.2, 3763092.5, 220.9, 220.9, 0.0);
(439370.2, 3763092.5, 221.0, 221.0, 0.0); (439420.2, 3763092.5, 220.7, 220.7, 0.0);
(439470.2, 3763092.5, 220.4, 220.4, 0.0); (439520.2, 3763092.5, 220.4, 220.4, 0.0);
(439570.2, 3763092.5, 220.4, 220.4, 0.0); (439620.2, 3763092.5, 220.9, 220.9, 0.0);
(439670.2, 3763092.5, 221.6, 221.6, 0.0); (439720.2, 3763092.5, 221.9, 221.9, 0.0);
(439770.2, 3763092.5, 222.1, 222.1, 0.0); (439820.2, 3763092.5, 222.3, 222.3, 0.0);
(439870.2, 3763092.5, 222.6, 222.6, 0.0); (439170.2, 3763142.5, 220.8, 220.8, 0.0);
(439220.2, 3763142.5, 221.2, 221.2, 0.0); (439270.2, 3763142.5, 221.0, 221.0, 0.0);
(439320.2, 3763142.5, 221.3, 221.3, 0.0); (439370.2, 3763142.5, 221.3, 221.3, 0.0);
(439420.2, 3763142.5, 221.0, 221.0, 0.0); (439470.2, 3763142.5, 221.3, 221.3, 0.0);
(439520.2, 3763142.5, 221.5, 221.5, 0.0); (439570.2, 3763142.5, 221.2, 221.2, 0.0);
(439620.2, 3763142.5, 221.3, 221.3, 0.0); (439670.2, 3763142.5, 222.0, 222.0, 0.0);
(439720.2, 3763142.5, 222.3, 222.3, 0.0); (439770.2, 3763142.5, 222.6, 222.6, 0.0);

```
     ( 439820.2, 3763142.5,     222.9,     222.9,       0.0);         ( 439870.2,
3763142.5,     223.2,     223.2,       0.0);
     ( 439170.2, 3763192.5,     221.4,     221.4,       0.0);         ( 439220.2,
3763192.5,     221.6,     221.6,       0.0);
     ( 439270.2, 3763192.5,     221.3,     221.3,       0.0);         ( 439320.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439370.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439420.2,
3763192.5,     221.3,     221.3,       0.0);
     ( 439470.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439520.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439570.2, 3763192.5,     221.8,     221.8,       0.0);         ( 439620.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439670.2, 3763192.5,     222.5,     222.5,       0.0);         ( 439720.2,
3763192.5,     223.2,     223.2,       0.0);
     ( 439770.2, 3763192.5,     223.5,     223.5,       0.0);         ( 439820.2,
3763192.5,     223.7,     223.7,       0.0);
     ( 439870.2, 3763192.5,     223.9,     223.9,       0.0);         ( 439170.2,
3763242.5,     222.1,     222.1,       0.0);
     ( 439220.2, 3763242.5,     222.1,     222.1,       0.0);         ( 439270.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439320.2, 3763242.5,     222.0,     222.0,       0.0);         ( 439370.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439420.2, 3763242.5,     221.9,     221.9,       0.0);         ( 439470.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439520.2, 3763242.5,     222.3,     222.3,       0.0);         ( 439570.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439620.2, 3763242.5,     222.2,     222.2,       0.0);         ( 439670.2,
3763242.5,     222.8,     222.8,       0.0);
     ( 439720.2, 3763242.5,     223.5,     223.5,       0.0);         ( 439770.2,
3763242.5,     224.0,     224.0,       0.0);
     ( 439820.2, 3763242.5,     224.3,     224.3,       0.0);         ( 439870.2,
3763242.5,     224.5,     224.5,       0.0);
     ( 439170.2, 3763292.5,     222.9,     222.9,       0.0);         ( 439220.2,
3763292.5,     223.4,     223.4,       0.0);
     ( 439270.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439320.2,
3763292.5,     223.0,     223.0,       0.0);
     ( 439370.2, 3763292.5,     222.5,     222.5,       0.0);         ( 439420.2,
3763292.5,     222.9,     222.9,       0.0);
     ( 439470.2, 3763292.5,     223.2,     223.2,       0.0);         ( 439520.2,
3763292.5,     223.5,     223.5,       0.0);
     ( 439570.2, 3763292.5,     223.0,     223.0,       0.0);         ( 439620.2,
3763292.5,     223.1,     223.1,       0.0);
     ( 439670.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439720.2,
3763292.5,     224.0,     224.0,       0.0);
     ( 439770.2, 3763292.5,     224.8,     224.8,       0.0);         ( 439820.2,
3763292.5,     225.1,     225.1,       0.0);
     ( 439870.2, 3763292.5,     225.1,     225.1,       0.0);         ( 439170.2,
3763342.5,     223.6,     223.6,       0.0);
     ( 439220.2, 3763342.5,     224.0,     224.0,       0.0);         ( 439270.2,
3763342.5,     223.5,     223.5,       0.0);
     ( 439320.2, 3763342.5,     223.4,     223.4,       0.0);         ( 439370.2,
```

3763342.5, 223.0, 223.0, 0.0);
(439420.2, 3763342.5, 223.3, 223.3, 0.0); (439470.2, 3763342.5, 223.6, 223.6, 0.0);
(439520.2, 3763342.5, 223.9, 223.9, 0.0); (439570.2, 3763342.5, 223.7, 223.7, 0.0);
(439620.2, 3763342.5, 223.5, 223.5, 0.0); (439670.2, 3763342.5, 223.9, 223.9, 0.0);
(439720.2, 3763342.5, 224.4, 224.4, 0.0); (439770.2, 3763342.5, 225.3, 225.3, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439820.2, 3763342.5, 225.6, 225.6, 0.0); (439870.2, 3763342.5, 225.8, 225.8, 0.0);
(439170.2, 3763392.5, 224.3, 224.3, 0.0); (439220.2, 3763392.5, 224.5, 224.5, 0.0);
(439270.2, 3763392.5, 223.9, 223.9, 0.0); (439320.2, 3763392.5, 224.3, 224.3, 0.0);
(439370.2, 3763392.5, 224.0, 224.0, 0.0); (439420.2, 3763392.5, 224.4, 224.4, 0.0);
(439470.2, 3763392.5, 224.7, 224.7, 0.0); (439520.2, 3763392.5, 224.3, 224.3, 0.0);
(439570.2, 3763392.5, 224.2, 224.2, 0.0); (439620.2, 3763392.5, 224.0, 224.0, 0.0);
(439670.2, 3763392.5, 224.5, 224.5, 0.0); (439720.2, 3763392.5, 224.8, 224.8, 0.0);
(439770.2, 3763392.5, 225.6, 225.6, 0.0); (439820.2, 3763392.5, 226.0, 226.0, 0.0);
(439870.2, 3763392.5, 226.3, 226.3, 0.0); (439170.2, 3763442.5, 225.0, 225.0, 0.0);
(439220.2, 3763442.5, 225.1, 225.1, 0.0); (439270.2, 3763442.5, 224.5, 224.5, 0.0);
(439320.2, 3763442.5, 224.5, 224.5, 0.0); (439370.2, 3763442.5, 224.6, 224.6, 0.0);
(439420.2, 3763442.5, 224.7, 224.7, 0.0); (439470.2, 3763442.5, 225.0, 225.0, 0.0);
(439520.2, 3763442.5, 224.7, 224.7, 0.0); (439570.2, 3763442.5, 224.7, 224.7, 0.0);
(439620.2, 3763442.5, 224.6, 224.6, 0.0); (439670.2, 3763442.5, 225.0, 225.0, 0.0);
(439720.2, 3763442.5, 225.4, 225.4, 0.0); (439770.2, 3763442.5, 226.1, 226.1, 0.0);

```
     ( 439820.2, 3763442.5,     226.5,     226.5,       0.0);         ( 439870.2,
3763442.5,     226.7,     226.7,       0.0);
     ( 439203.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439253.2,
3762911.2,     218.6,     218.6,       0.0);
     ( 439303.2, 3762911.2,     218.7,     218.7,       0.0);         ( 439353.2,
3762911.2,     217.9,     217.9,       0.0);
     ( 439403.2, 3762911.2,     218.0,     218.0,       0.0);         ( 439453.2,
3762911.2,     218.3,     218.3,       0.0);
     ( 439503.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439553.2,
3762911.2,     218.5,     218.5,       0.0);
     ( 439203.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439253.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439303.2, 3762961.2,     219.2,     219.2,       0.0);         ( 439353.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439403.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439453.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439503.2, 3762961.2,     218.7,     218.7,       0.0);         ( 439553.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439203.2, 3763011.2,     219.6,     219.6,       0.0);         ( 439253.2,
3763011.2,     219.7,     219.7,       0.0);
     ( 439303.2, 3763011.2,     219.9,     219.9,       0.0);         ( 439353.2,
3763011.2,     220.0,     220.0,       0.0);
     ( 439403.2, 3763011.2,     219.2,     219.2,       0.0);         ( 439453.2,
3763011.2,     219.4,     219.4,       0.0);
     ( 439503.2, 3763011.2,     219.1,     219.1,       0.0);         ( 439553.2,
3763011.2,     219.5,     219.5,       0.0);
     ( 439203.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439253.2,
3763061.2,     220.5,     220.5,       0.0);
     ( 439303.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439353.2,
3763061.2,     220.8,     220.8,       0.0);
     ( 439403.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439453.2,
3763061.2,     220.4,     220.4,       0.0);
     ( 439503.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439553.2,
3763061.2,     220.3,     220.3,       0.0);
     ( 439196.0, 3762392.5,     212.6,     212.6,       0.0);         ( 439246.0,
3762392.5,     212.7,     212.7,       0.0);
     ( 439296.0, 3762392.5,     212.7,     212.7,       0.0);         ( 439346.0,
3762392.5,     212.6,     212.6,       0.0);
     ( 439396.0, 3762392.5,     212.5,     212.5,       0.0);         ( 439446.0,
3762392.5,     212.2,     212.2,       0.0);
     ( 439496.0, 3762392.5,     212.2,     212.2,       0.0);         ( 439546.0,
3762392.5,     212.5,     212.5,       0.0);
     ( 439196.0, 3762442.5,     213.1,     213.1,       0.0);         ( 439246.0,
3762442.5,     213.1,     213.1,       0.0);
     ( 439296.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439346.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439396.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439446.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439496.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439546.0,
3762442.5,     213.4,     213.4,       0.0);
     ( 439196.0, 3762492.5,     213.6,     213.6,       0.0);         ( 439246.0,
```

3762492.5,   213.5,   213.5,   0.0);
     (439296.0, 3762492.5,   213.7,   213.7,   0.0);   (439346.0,
3762492.5,   214.0,   214.0,   0.0);
     (439396.0, 3762492.5,   213.9,   213.9,   0.0);   (439446.0,
3762492.5,   213.9,   213.9,   0.0);
     (439496.0, 3762492.5,   214.2,   214.2,   0.0);   (439546.0,
3762492.5,   214.4,   214.4,   0.0);
     (439196.0, 3762542.5,   214.1,   214.1,   0.0);   (439246.0,
3762542.5,   213.8,   213.8,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439296.0, 3762542.5,   214.0,   214.0,   0.0);   (439346.0,
3762542.5,   214.0,   214.0,   0.0);
     (439396.0, 3762542.5,   214.2,   214.2,   0.0);   (439446.0,
3762542.5,   214.2,   214.2,   0.0);
     (439496.0, 3762542.5,   214.7,   214.7,   0.0);   (439546.0,
3762542.5,   214.7,   214.7,   0.0);
     (439196.0, 3762592.5,   214.6,   214.6,   0.0);   (439246.0,
3762592.5,   214.8,   214.8,   0.0);
     (439296.0, 3762592.5,   214.7,   214.7,   0.0);   (439346.0,
3762592.5,   214.4,   214.4,   0.0);
     (439396.0, 3762592.5,   214.4,   214.4,   0.0);   (439446.0,
3762592.5,   214.5,   214.5,   0.0);
     (439496.0, 3762592.5,   215.1,   215.1,   0.0);   (439546.0,
3762592.5,   215.2,   215.2,   0.0);
     (439196.0, 3762642.5,   215.1,   215.1,   0.0);   (439246.0,
3762642.5,   215.4,   215.4,   0.0);
     (439296.0, 3762642.5,   214.9,   214.9,   0.0);   (439346.0,
3762642.5,   214.4,   214.4,   0.0);
     (439396.0, 3762642.5,   214.6,   214.6,   0.0);   (439446.0,
3762642.5,   214.8,   214.8,   0.0);
     (439496.0, 3762642.5,   215.5,   215.5,   0.0);   (439546.0,
3762642.5,   215.6,   215.6,   0.0);
     (439196.0, 3762692.5,   215.8,   215.8,   0.0);   (439246.0,
3762692.5,   215.8,   215.8,   0.0);
     (439296.0, 3762692.5,   215.9,   215.9,   0.0);   (439346.0,
3762692.5,   215.7,   215.7,   0.0);
     (439396.0, 3762692.5,   215.1,   215.1,   0.0);   (439446.0,
3762692.5,   215.3,   215.3,   0.0);
     (439496.0, 3762692.5,   215.9,   215.9,   0.0);   (439546.0,
3762692.5,   216.1,   216.1,   0.0);

```
     ( 439196.0, 3762742.5,     216.5,     216.5,       0.0);         ( 439246.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439296.0, 3762742.5,     216.3,     216.3,       0.0);         ( 439346.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439396.0, 3762742.5,     216.0,     216.0,       0.0);         ( 439446.0,
3762742.5,     216.0,     216.0,       0.0);
     ( 439496.0, 3762742.5,     216.7,     216.7,       0.0);         ( 439546.0,
3762742.5,     216.8,     216.8,       0.0);
     ( 439196.0, 3762792.5,     217.1,     217.1,       0.0);         ( 439246.0,
3762792.5,     216.4,     216.4,       0.0);
     ( 439296.0, 3762792.5,     216.8,     216.8,       0.0);         ( 439346.0,
3762792.5,     216.8,     216.8,       0.0);
     ( 439396.0, 3762792.5,     216.9,     216.9,       0.0);         ( 439446.0,
3762792.5,     216.7,     216.7,       0.0);
     ( 439496.0, 3762792.5,     217.3,     217.3,       0.0);         ( 439546.0,
3762792.5,     217.4,     217.4,       0.0);
     ( 439196.0, 3762842.5,     217.7,     217.7,       0.0);         ( 439246.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439296.0, 3762842.5,     217.0,     217.0,       0.0);         ( 439346.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439396.0, 3762842.5,     217.2,     217.2,       0.0);         ( 439446.0,
3762842.5,     217.3,     217.3,       0.0);
     ( 439496.0, 3762842.5,     217.9,     217.9,       0.0);         ( 439546.0,
3762842.5,     218.0,     218.0,       0.0);
     ( 439573.3, 3762470.5,     213.7,     213.7,       0.0);         ( 439623.3,
3762470.5,     214.1,     214.1,       0.0);
     ( 439673.3, 3762470.5,     214.2,     214.2,       0.0);         ( 439723.3,
3762470.5,     214.3,     214.3,       0.0);
     ( 439773.3, 3762470.5,     214.4,     214.4,       0.0);         ( 439823.3,
3762470.5,     214.4,     214.4,       0.0);
     ( 439873.3, 3762470.5,     214.7,     214.7,       0.0);         ( 439573.3,
3762520.5,     214.3,     214.3,       0.0);
     ( 439623.3, 3762520.5,     214.5,     214.5,       0.0);         ( 439673.3,
3762520.5,     214.8,     214.8,       0.0);
     ( 439723.3, 3762520.5,     215.1,     215.1,       0.0);         ( 439773.3,
3762520.5,     215.1,     215.1,       0.0);
     ( 439823.3, 3762520.5,     214.8,     214.8,       0.0);         ( 439873.3,
3762520.5,     215.2,     215.2,       0.0);
     ( 439573.3, 3762570.5,     214.8,     214.8,       0.0);         ( 439623.3,
3762570.5,     215.0,     215.0,       0.0);
     ( 439673.3, 3762570.5,     215.4,     215.4,       0.0);         ( 439723.3,
3762570.5,     215.5,     215.5,       0.0);
     ( 439773.3, 3762570.5,     215.5,     215.5,       0.0);         ( 439823.3,
3762570.5,     215.3,     215.3,       0.0);
     ( 439873.3, 3762570.5,     215.9,     215.9,       0.0);         ( 439573.3,
3762620.5,     215.3,     215.3,       0.0);
     ( 439623.3, 3762620.5,     215.6,     215.6,       0.0);         ( 439673.3,
3762620.5,     215.7,     215.7,       0.0);
     ( 439723.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439773.3,
3762620.5,     215.8,     215.8,       0.0);
     ( 439823.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439873.3,
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3762620.5,   216.5,   216.5,   0.0);
     (439573.3, 3762670.5,   215.8,   215.8,   0.0);   (439623.3,
3762670.5,   216.5,   216.5,   0.0);
     (439673.3, 3762670.5,   216.5,   216.5,   0.0);   (439723.3,
3762670.5,   216.6,   216.6,   0.0);
     (439773.3, 3762670.5,   216.8,   216.8,   0.0);   (439823.3,
3762670.5,   216.9,   216.9,   0.0);
     (439873.3, 3762670.5,   217.1,   217.1,   0.0);   (439152.3,
3761448.9,   203.3,   203.3,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439202.3, 3761448.9,   202.5,   202.5,   0.0);   (439252.3,
3761448.9,   202.5,   202.5,   0.0);
     (439302.3, 3761448.9,   202.4,   202.4,   0.0);   (439352.3,
3761448.9,   202.5,   202.5,   0.0);
     (439402.3, 3761448.9,   202.6,   202.6,   0.0);   (439452.3,
3761448.9,   202.6,   202.6,   0.0);
     (439502.3, 3761448.9,   203.1,   203.1,   0.0);   (439552.3,
3761448.9,   203.1,   203.1,   0.0);
     (439152.3, 3761498.9,   204.0,   204.0,   0.0);   (439202.3,
3761498.9,   203.9,   203.9,   0.0);
     (439252.3, 3761498.9,   204.3,   204.3,   0.0);   (439302.3,
3761498.9,   203.6,   203.6,   0.0);
     (439352.3, 3761498.9,   203.2,   203.2,   0.0);   (439402.3,
3761498.9,   202.9,   202.9,   0.0);
     (439452.3, 3761498.9,   202.7,   202.7,   0.0);   (439502.3,
3761498.9,   203.3,   203.3,   0.0);
     (439552.3, 3761498.9,   203.5,   203.5,   0.0);   (439152.3,
3761548.9,   204.7,   204.7,   0.0);
     (439202.3, 3761548.9,   204.3,   204.3,   0.0);   (439252.3,
3761548.9,   204.4,   204.4,   0.0);
     (439302.3, 3761548.9,   203.7,   203.7,   0.0);   (439352.3,
3761548.9,   203.0,   203.0,   0.0);
     (439402.3, 3761548.9,   203.1,   203.1,   0.0);   (439452.3,
3761548.9,   203.0,   203.0,   0.0);
     (439502.3, 3761548.9,   203.2,   203.2,   0.0);   (439552.3,
3761548.9,   203.6,   203.6,   0.0);
     (439152.3, 3761598.9,   205.2,   205.2,   0.0);   (439202.3,
3761598.9,   204.5,   204.5,   0.0);
     (439252.3, 3761598.9,   204.5,   204.5,   0.0);   (439302.3,
3761598.9,   204.2,   204.2,   0.0);

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     ( 439352.3, 3761598.9,     203.5,     203.5,       0.0);         ( 439402.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439452.3, 3761598.9,     203.8,     203.8,       0.0);         ( 439502.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439552.3, 3761598.9,     204.0,     204.0,       0.0);         ( 439152.3,
3761648.9,     205.5,     205.5,       0.0);
     ( 439202.3, 3761648.9,     205.1,     205.1,       0.0);         ( 439252.3,
3761648.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761648.9,     204.9,     204.9,       0.0);         ( 439352.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439402.3, 3761648.9,     204.5,     204.5,       0.0);         ( 439452.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439502.3, 3761648.9,     204.7,     204.7,       0.0);         ( 439552.3,
3761648.9,     204.9,     204.9,       0.0);
     ( 439152.3, 3761698.9,     206.0,     206.0,       0.0);         ( 439202.3,
3761698.9,     205.4,     205.4,       0.0);
     ( 439252.3, 3761698.9,     204.9,     204.9,       0.0);         ( 439302.3,
3761698.9,     205.0,     205.0,       0.0);
     ( 439352.3, 3761698.9,     205.2,     205.2,       0.0);         ( 439402.3,
3761698.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761698.9,     204.8,     204.8,       0.0);         ( 439502.3,
3761698.9,     205.3,     205.3,       0.0);
     ( 439552.3, 3761698.9,     205.7,     205.7,       0.0);         ( 439152.3,
3761748.9,     206.1,     206.1,       0.0);
     ( 439202.3, 3761748.9,     205.8,     205.8,       0.0);         ( 439252.3,
3761748.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761748.9,     205.2,     205.2,       0.0);         ( 439352.3,
3761748.9,     205.2,     205.2,       0.0);
     ( 439402.3, 3761748.9,     205.4,     205.4,       0.0);         ( 439452.3,
3761748.9,     205.1,     205.1,       0.0);
     ( 439502.3, 3761748.9,     204.8,     204.8,       0.0);         ( 439552.3,
3761748.9,     205.5,     205.5,       0.0);
     ( 439152.3, 3761798.9,     206.4,     206.4,       0.0);         ( 439202.3,
3761798.9,     206.4,     206.4,       0.0);
     ( 439252.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439302.3,
3761798.9,     206.2,     206.2,       0.0);
     ( 439352.3, 3761798.9,     205.6,     205.6,       0.0);         ( 439402.3,
3761798.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439502.3,
3761798.9,     205.2,     205.2,       0.0);
     ( 439552.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439152.3,
3761848.9,     206.9,     206.9,       0.0);
     ( 439202.3, 3761848.9,     206.7,     206.7,       0.0);         ( 439252.3,
3761848.9,     206.1,     206.1,       0.0);
     ( 439302.3, 3761848.9,     206.2,     206.2,       0.0);         ( 439352.3,
3761848.9,     205.6,     205.6,       0.0);
     ( 439402.3, 3761848.9,     206.3,     206.3,       0.0);         ( 439452.3,
3761848.9,     206.3,     206.3,       0.0);
     ( 439502.3, 3761848.9,     205.5,     205.5,       0.0);         ( 439552.3,
3761848.9,     206.3,     206.3,       0.0);
     ( 439152.3, 3761898.9,     207.6,     207.6,       0.0);         ( 439202.3,
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3761898.9, 207.2, 207.2, 0.0);
(439252.3, 3761898.9, 206.5, 206.5, 0.0); (439302.3, 3761898.9, 207.1, 207.1, 0.0);
(439352.3, 3761898.9, 206.9, 206.9, 0.0); (439402.3, 3761898.9, 206.7, 206.7, 0.0);
(439452.3, 3761898.9, 207.4, 207.4, 0.0); (439502.3, 3761898.9, 207.4, 207.4, 0.0);
(439552.3, 3761898.9, 207.6, 207.6, 0.0); (439152.3, 3761948.9, 208.1, 208.1, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439202.3, 3761948.9, 207.6, 207.6, 0.0); (439252.3, 3761948.9, 206.9, 206.9, 0.0);
(439302.3, 3761948.9, 207.6, 207.6, 0.0); (439352.3, 3761948.9, 207.7, 207.7, 0.0);
(439402.3, 3761948.9, 207.3, 207.3, 0.0); (439452.3, 3761948.9, 208.1, 208.1, 0.0);
(439502.3, 3761948.9, 208.5, 208.5, 0.0); (439552.3, 3761948.9, 208.8, 208.8, 0.0);
(439152.3, 3761998.9, 208.6, 208.6, 0.0); (439202.3, 3761998.9, 207.9, 207.9, 0.0);
(439252.3, 3761998.9, 207.2, 207.2, 0.0); (439302.3, 3761998.9, 208.0, 208.0, 0.0);
(439352.3, 3761998.9, 208.5, 208.5, 0.0); (439402.3, 3761998.9, 208.0, 208.0, 0.0);
(439452.3, 3761998.9, 208.2, 208.2, 0.0); (439502.3, 3761998.9, 208.5, 208.5, 0.0);
(439552.3, 3761998.9, 208.9, 208.9, 0.0); (439152.3, 3762048.9, 209.2, 209.2, 0.0);
(439202.3, 3762048.9, 209.1, 209.1, 0.0); (439252.3, 3762048.9, 209.0, 209.0, 0.0);
(439302.3, 3762048.9, 209.0, 209.0, 0.0); (439352.3, 3762048.9, 209.0, 209.0, 0.0);
(439402.3, 3762048.9, 208.7, 208.7, 0.0); (439452.3, 3762048.9, 209.0, 209.0, 0.0);
(439502.3, 3762048.9, 209.2, 209.2, 0.0); (439552.3, 3762048.9, 209.4, 209.4, 0.0);
(439616.6, 3761420.6, 202.8, 202.8, 0.0); (439666.6, 3761420.6, 203.2, 203.2, 0.0);
(439716.6, 3761420.6, 203.4, 203.4, 0.0); (439766.6, 3761420.6, 203.6, 203.6, 0.0);

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     ( 439816.6, 3761420.6,     203.5,     203.5,       0.0);         ( 439866.6,
3761420.6,     203.8,     203.8,       0.0);
     ( 439616.6, 3761470.6,     203.2,     203.2,       0.0);         ( 439666.6,
3761470.6,     203.4,     203.4,       0.0);
     ( 439716.6, 3761470.6,     203.6,     203.6,       0.0);         ( 439766.6,
3761470.6,     203.8,     203.8,       0.0);
     ( 439816.6, 3761470.6,     203.7,     203.7,       0.0);         ( 439866.6,
3761470.6,     204.3,     204.3,       0.0);
     ( 439616.6, 3761520.6,     203.5,     203.5,       0.0);         ( 439666.6,
3761520.6,     203.7,     203.7,       0.0);
     ( 439716.6, 3761520.6,     204.0,     204.0,       0.0);         ( 439766.6,
3761520.6,     204.4,     204.4,       0.0);
     ( 439816.6, 3761520.6,     204.5,     204.5,       0.0);         ( 439866.6,
3761520.6,     204.9,     204.9,       0.0);
     ( 439616.6, 3761570.6,     204.1,     204.1,       0.0);         ( 439666.6,
3761570.6,     204.4,     204.4,       0.0);
     ( 439716.6, 3761570.6,     204.7,     204.7,       0.0);         ( 439766.6,
3761570.6,     205.2,     205.2,       0.0);
     ( 439816.6, 3761570.6,     205.4,     205.4,       0.0);         ( 439866.6,
3761570.6,     205.5,     205.5,       0.0);
     ( 440451.1, 3762893.8,     220.7,     220.7,       0.0);         ( 440501.1,
3762893.8,     220.6,     220.6,       0.0);
     ( 440551.1, 3762893.8,     220.3,     220.3,       0.0);         ( 440601.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440651.1, 3762893.8,     220.5,     220.5,       0.0);         ( 440701.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440751.1, 3762893.8,     220.2,     220.2,       0.0);         ( 440801.1,
3762893.8,     220.2,     220.2,       0.0);
     ( 440851.1, 3762893.8,     219.8,     219.8,       0.0);         ( 440451.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 440501.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440551.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440601.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440651.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440701.1, 3762943.8,     221.0,     221.0,       0.0);         ( 440751.1,
3762943.8,     220.5,     220.5,       0.0);
     ( 440801.1, 3762943.8,     220.8,     220.8,       0.0);         ( 440851.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 441116.7, 3763135.3,     223.3,     223.3,       0.0);         ( 441166.7,
3763135.3,     222.9,     222.9,       0.0);
     ( 441116.7, 3763185.3,     223.9,     223.9,       0.0);         ( 441166.7,
3763185.3,     223.5,     223.5,       0.0);
     ( 441116.7, 3763235.3,     224.2,     224.2,       0.0);         ( 441166.7,
3763235.3,     223.9,     223.9,       0.0);
     ( 441116.7, 3763285.3,     225.2,     225.2,       0.0);         ( 441166.7,
3763285.3,     224.6,     224.6,       0.0);
     ( 441116.7, 3763335.3,     225.8,     225.8,       0.0);         ( 441166.7,
3763335.3,     225.4,     225.4,       0.0);
     ( 441116.7, 3763385.3,     226.3,     226.3,       0.0);         ( 441166.7,
3763385.3,     226.3,     226.3,       0.0);
     ( 441116.7, 3763435.3,     227.0,     227.0,       0.0);         ( 441166.7,
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3763435.3,   226.8,   226.8,   0.0);
     (440433.4, 3762815.1,   219.6,   219.6,   0.0);   (440483.4,
3762815.1,   219.4,   219.4,   0.0);
     (440533.4, 3762815.1,   219.2,   219.2,   0.0);   (440583.4,
3762815.1,   219.4,   219.4,   0.0);
     (440633.4, 3762815.1,   219.3,   219.3,   0.0);   (440683.4,
3762815.1,   219.2,   219.2,   0.0);
     (440733.4, 3762815.1,   219.4,   219.4,   0.0);   (440783.4,
3762815.1,   219.2,   219.2,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (440833.4, 3762815.1,   219.4,   219.4,   0.0);   (440883.4,
3762815.1,   219.5,   219.5,   0.0);
     (440933.4, 3762815.1,   219.0,   219.0,   0.0);   (440983.4,
3762815.1,   218.8,   218.8,   0.0);
     (440433.4, 3762865.1,   220.3,   220.3,   0.0);   (440483.4,
3762865.1,   220.1,   220.1,   0.0);
     (440533.4, 3762865.1,   219.9,   219.9,   0.0);   (440583.4,
3762865.1,   219.9,   219.9,   0.0);
     (440633.4, 3762865.1,   220.0,   220.0,   0.0);   (440683.4,
3762865.1,   219.9,   219.9,   0.0);
     (440733.4, 3762865.1,   220.0,   220.0,   0.0);   (440783.4,
3762865.1,   219.9,   219.9,   0.0);
     (440833.4, 3762865.1,   219.6,   219.6,   0.0);   (440883.4,
3762865.1,   219.3,   219.3,   0.0);
     (440933.4, 3762865.1,   219.0,   219.0,   0.0);   (440983.4,
3762865.1,   218.9,   218.9,   0.0);
     (441118.3, 3762686.0,   217.2,   217.2,   0.0);   (441168.3,
3762686.0,   217.0,   217.0,   0.0);
     (441118.3, 3762736.0,   218.2,   218.2,   0.0);   (441168.3,
3762736.0,   217.5,   217.5,   0.0);
     (441118.3, 3762786.0,   218.3,   218.3,   0.0);   (441168.3,
3762786.0,   218.0,   218.0,   0.0);
     (441118.3, 3762836.0,   218.4,   218.4,   0.0);   (441168.3,
3762836.0,   218.3,   218.3,   0.0);
     (440411.7, 3762093.4,   211.8,   211.8,   0.0);   (440461.7,
3762093.4,   211.7,   211.7,   0.0);
     (440511.7, 3762093.4,   211.8,   211.8,   0.0);   (440561.7,
3762093.4,   211.8,   211.8,   0.0);
     (440611.7, 3762093.4,   211.6,   211.6,   0.0);   (440411.7,
3762143.4,   212.7,   212.7,   0.0);

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     ( 440461.7, 3762143.4,     212.3,     212.3,       0.0);         ( 440511.7,
3762143.4,     212.5,     212.5,       0.0);
     ( 440561.7, 3762143.4,     212.2,     212.2,       0.0);         ( 440611.7,
3762143.4,     212.4,     212.4,       0.0);
     ( 440406.6, 3762008.9,     210.5,     210.5,       0.0);         ( 440456.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440506.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440556.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440606.6, 3762008.9,     210.7,     210.7,       0.0);         ( 440656.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440706.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440756.6,
3762008.9,     211.0,     211.0,       0.0);
     ( 440806.6, 3762008.9,     210.4,     210.4,       0.0);         ( 440856.6,
3762008.9,     210.6,     210.6,       0.0);
     ( 440906.6, 3762008.9,     211.3,     211.3,       0.0);         ( 440956.6,
3762008.9,     211.2,     211.2,       0.0);
     ( 441006.6, 3762008.9,     211.1,     211.1,       0.0);         ( 441056.6,
3762008.9,     210.5,     210.5,       0.0);
     ( 441106.6, 3762008.9,     210.4,     210.4,       0.0);         ( 441156.6,
3762008.9,     210.4,     210.4,       0.0);
     ( 440406.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440456.6,
3762058.9,     211.2,     211.2,       0.0);
     ( 440506.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440556.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 440606.6, 3762058.9,     211.2,     211.2,       0.0);         ( 440656.6,
3762058.9,     211.4,     211.4,       0.0);
     ( 440706.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440756.6,
3762058.9,     212.0,     212.0,       0.0);
     ( 440806.6, 3762058.9,     211.4,     211.4,       0.0);         ( 440856.6,
3762058.9,     211.5,     211.5,       0.0);
     ( 440906.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440956.6,
3762058.9,     211.7,     211.7,       0.0);
     ( 441006.6, 3762058.9,     211.5,     211.5,       0.0);         ( 441056.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 441106.6, 3762058.9,     211.1,     211.1,       0.0);         ( 441156.6,
3762058.9,     211.1,     211.1,       0.0);
     ( 440191.4, 3762138.4,     211.5,     211.5,       0.0);         ( 440241.4,
3762138.4,     211.7,     211.7,       0.0);
     ( 440291.4, 3762138.4,     212.0,     212.0,       0.0);         ( 440341.4,
3762138.4,     211.6,     211.6,       0.0);
     ( 440191.4, 3762188.4,     212.6,     212.6,       0.0);         ( 440241.4,
3762188.4,     211.8,     211.8,       0.0);
     ( 440291.4, 3762188.4,     213.1,     213.1,       0.0);         ( 440341.4,
3762188.4,     213.1,     213.1,       0.0);
     ( 440191.4, 3762238.4,     213.2,     213.2,       0.0);         ( 440241.4,
3762238.4,     212.4,     212.4,       0.0);
     ( 440291.4, 3762238.4,     213.8,     213.8,       0.0);         ( 440341.4,
3762238.4,     213.6,     213.6,       0.0);
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                           ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
           1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74	0.21	1.23	91.	7.9	296.4	2.0
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74	0.20	1.60	90.	7.9	299.9	2.0
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74	0.20	1.98	92.	7.9	302.0	2.0
12	01	01	1	14	94.6	0.185	1.215	0.005	674.	191.	-5.9	0.09	0.74	0.21	1.50	73.	7.9	303.1	2.0
12	01	01	1	15	68.6	0.187	1.184	0.005	858.	194.	-8.4	0.09	0.74	0.25	1.59	64.	7.9	303.1	2.0
12	01	01	1	16	24.9	0.255	0.862	0.005	911.	308.	-58.8	0.09	0.74	0.34	2.61	92.	7.9	300.4	2.0
12	01	01	1	17	-13.7	0.168	-9.000	-9.000	-999.	168.	31.1	0.09	0.74	0.62	1.98	107.	7.9	295.4	2.0
12	01	01	1	18	-26.7	0.279	-9.000	-9.000	-999.	354.	85.6	0.09	0.74	1.00	3.22	134.	7.9	291.4	2.0
12	01	01	1	19	-8.0	0.118	-9.000	-9.000	-999.	120.	18.2	0.09	0.74

```
1.00    1.43   37.    7.9  290.4    2.0
 12 01 01   1 20   -7.7  0.115 -9.000 -9.000 -999.   94.     17.6  0.09   0.74
1.00    1.40   49.    7.9  287.0    2.0
 12 01 01   1 21   -9.7  0.130 -9.000 -9.000 -999.  113.     20.2  0.09   0.74
1.00    1.57   26.    7.9  288.8    2.0
 12 01 01   1 22   -4.8  0.090 -9.000 -9.000 -999.   65.     13.6  0.09   0.74
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         440407.86    3761497.84        1.43416                       439943.36
3761716.33        1.98037
         439170.17    3763092.51        0.63646                       439220.17
3763092.51        0.65453
```

```
         439270.17    3763092.51        0.68962                    439320.17
3763092.51        0.71843
         439370.17    3763092.51        0.75538                    439420.17
3763092.51        0.80420
         439470.17    3763092.51        0.86003                    439520.17
3763092.51        0.90776
         439570.17    3763092.51        0.95579                    439620.17
3763092.51        0.98375
         439670.17    3763092.51        1.00964                    439720.17
3763092.51        1.04880
         439770.17    3763092.51        1.09300                    439820.17
3763092.51        1.13378
         439870.17    3763092.51        1.17214                    439170.17
3763142.51        0.59681
         439220.17    3763142.51        0.61773                    439270.17
3763142.51        0.65099
         439320.17    3763142.51        0.67441                    439370.17
3763142.51        0.70818
         439420.17    3763142.51        0.75348                    439470.17
3763142.51        0.78201
         439520.17    3763142.51        0.81656                    439570.17
3763142.51        0.86811
         439620.17    3763142.51        0.90224                    439670.17
3763142.51        0.92634
         439720.17    3763142.51        0.95759                    439770.17
3763142.51        0.99008
         439820.17    3763142.51        1.01876                    439870.17
3763142.51        1.04645
         439170.17    3763192.51        0.56033                    439220.17
3763192.51        0.58352
         439270.17    3763192.51        0.61409                    439320.17
3763192.51        0.63502
         439370.17    3763192.51        0.66620                    439420.17
3763192.51        0.70445
         439470.17    3763192.51        0.72974                    439520.17
3763192.51        0.76128
         439570.17    3763192.51        0.79544                    439620.17
3763192.51        0.83113
         439670.17    3763192.51        0.84793                    439720.17
3763192.51        0.86359
         439770.17    3763192.51        0.88556                    439820.17
3763192.51        0.91189
         439870.17    3763192.51        0.93731                    439170.17
3763242.51        0.52967
         439220.17    3763242.51        0.55180                    439270.17
3763242.51        0.57855
         439320.17    3763242.51        0.60243                    439370.17
3763242.51        0.62929
         439420.17    3763242.51        0.65691                    439470.17
3763242.51        0.67881
         439520.17    3763242.51        0.70642                    439570.17
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3763242.51        0.73581
         439620.17    3763242.51        0.76545                      439670.17
3763242.51        0.78241
         439720.17    3763242.51        0.79302                      439770.17
3763242.51        0.80838
         439820.17    3763242.51        0.82462                      439870.17
3763242.51        0.84374
         439170.17    3763292.51        0.49892                      439220.17
3763292.51        0.51266
         439270.17    3763292.51        0.53399                      439320.17
3763292.51        0.55923
         439370.17    3763292.51        0.58910                      439420.17
3763292.51        0.60589
         439470.17    3763292.51        0.62474                      439520.17
3763292.51        0.64441
         439570.17    3763292.51        0.67682                      439620.17
3763292.51        0.69759
         439670.17    3763292.51        0.71718                      439720.17
3763292.51        0.72677
         439770.17    3763292.51        0.73193                      439820.17
3763292.51        0.74704
         439870.17    3763292.51        0.76548                      439170.17
3763342.51        0.47053
         439220.17    3763342.51        0.48405                      439270.17
3763342.51        0.50780
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:56:46

                                   PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M)        CONC
 - - -
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```
         439503.20    3762911.16        1.23114                      439553.20
3762911.16        1.32422
         439203.20    3762961.16        0.79586                      439253.20
3762961.16        0.84195
         439303.20    3762961.16        0.88165                      439353.20
3762961.16        0.94967
         439403.20    3762961.16        1.02058                      439453.20
3762961.16        1.08151
         439503.20    3762961.16        1.16589                      439553.20
3762961.16        1.24309
         439203.20    3763011.16        0.74190                      439253.20
3763011.16        0.77846
         439303.20    3763011.16        0.81071                      439353.20
3763011.16        0.85472
         439403.20    3763011.16        0.95795                      439453.20
3763011.16        1.00584
         439503.20    3763011.16        1.08518                      439553.20
3763011.16        1.13418
         439203.20    3763061.16        0.68995                      439253.20
3763061.16        0.70145
         439303.20    3763061.16        0.73387                      439353.20
3763061.16        0.77201
         439403.20    3763061.16        0.81839                      439453.20
3763061.16        0.87447
         439503.20    3763061.16        0.96203                      439553.20
3763061.16        0.98104
         439196.01    3762392.48        1.02051                      439246.01
3762392.48        1.10477
         439296.01    3762392.48        1.20067                      439346.01
3762392.48        1.31072
         439396.01    3762392.48        1.43787                      439446.01
3762392.48        1.58568
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	1.76075	439546.01	3762392.48	1.96992
439196.01	3762442.48	1.01194	439246.01	3762442.48	1.09489
439296.01	3762442.48	1.18984	439346.01	3762442.48	1.29827
439396.01	3762442.48	1.42362	439446.01	3762442.48	1.56980
439496.01	3762442.48	1.74153	439546.01	3762442.48	1.94563
439196.01	3762492.48	0.99968	439246.01	3762492.48	1.08066
439296.01	3762492.48	1.17318	439346.01	3762492.48	1.27909
439396.01	3762492.48	1.40087	439446.01	3762492.48	1.54239
439496.01	3762492.48	1.70904	439546.01	3762492.48	1.90609
439196.01	3762542.48	0.98442	439246.01	3762542.48	1.06292
439296.01	3762542.48	1.15235	439346.01	3762542.48	1.25430
439396.01	3762542.48	1.37173	439446.01	3762542.48	1.50757
439496.01	3762542.48	1.66664	439546.01	3762542.48	1.85357
439196.01	3762592.48	0.96663	439246.01	3762592.48	1.04259
439296.01	3762592.48	1.12843	439346.01	3762592.48	1.22600
439396.01	3762592.48	1.33778	439446.01	3762592.48	1.46682
439496.01	3762592.48	1.61682	439546.01	3762592.48	1.79209
439196.01	3762642.48	0.94676	439246.01	3762642.48	1.01946
439296.01	3762642.48	1.10146	439346.01	3762642.48	1.19416
439396.01	3762642.48	1.30008	439446.01	3762642.48	1.42148
439496.01	3762642.48	1.56136	439546.01		

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3762642.48        1.72375
         439196.01    3762692.48        0.92511                        439246.01
3762692.48        0.99439
         439296.01    3762692.48        1.07210                        439346.01
3762692.48        1.15987
         439396.01    3762692.48        1.25937                        439446.01
3762692.48        1.37246
         439496.01    3762692.48        1.50157                        439546.01
3762692.48        1.65037
         439196.01    3762742.48        0.90197                        439246.01
3762742.48        0.96773
         439296.01    3762742.48        1.04094                        439346.01
3762742.48        1.12322
         439396.01    3762742.48        1.21579                        439446.01
3762742.48        1.32033
         439496.01    3762742.48        1.43841                        439546.01
3762742.48        1.57350
         439196.01    3762792.48        0.87760                        439246.01
3762792.48        0.93972
         439296.01    3762792.48        1.00818                        439346.01
3762792.48        1.08462
         439396.01    3762792.48        1.17013                        439446.01
3762792.48        1.26616
         439496.01    3762792.48        1.37344                        439546.01
3762792.48        1.49489
         439196.01    3762842.48        0.85221                        439246.01
3762842.48        0.91039
         439296.01    3762842.48        0.97431                        439346.01
3762842.48        1.04508
         439396.01    3762842.48        1.12352                        439446.01
3762842.48        1.21089
         439496.01    3762842.48        1.30768                        439546.01
3762842.48        1.41613
         439573.31    3762470.54        2.05022                        439623.31
3762470.54        2.31842
         439673.31    3762470.54        2.64681                        439723.31
3762470.54        3.05567
         439773.31    3762470.54        3.57558                        439823.31
3762470.54        4.25080
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:56:46

                                   PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
```

L0013577 , L0013578 , L0013579 , L0013580 , L0013581
, L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589
, L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597
, L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	5.15498	439573.31	3762520.54	1.99715
439623.31	3762520.54	2.25055	439673.31	3762520.54	2.55914
439723.31	3762520.54	2.94000	439773.31	3762520.54	3.41805
439823.31	3762520.54	4.02950	439873.31	3762520.54	4.83120
439573.31	3762570.54	1.93214	439623.31	3762570.54	2.16811
439673.31	3762570.54	2.45224	439723.31	3762570.54	2.79882
439773.31	3762570.54	3.22749	439823.31	3762570.54	3.76566
439873.31	3762570.54	4.44980	439573.31	3762620.54	1.85831
439623.31	3762620.54	2.07468	439673.31	3762620.54	2.33232
439723.31	3762620.54	2.64179	439773.31	3762620.54	3.01808
439823.31	3762620.54	3.47900	439873.31	3762620.54	4.04607
439573.31	3762670.54	1.77805	439623.31	3762670.54	1.97314
439673.31	3762670.54	2.20340	439723.31	3762670.54	2.47549
439773.31	3762670.54	2.79840	439823.31	3762670.54	3.18493
439873.31	3762670.54	3.64727	439152.35	3761448.92	0.65733
439202.35	3761448.92	0.68562	439252.35	3761448.92	0.71655
439302.35	3761448.92	0.74866	439352.35	3761448.92	0.78206

```
         439402.35    3761448.92        0.81654                    439452.35
3761448.92        0.85178
         439502.35    3761448.92        0.88901                    439552.35
3761448.92        0.92567
         439152.35    3761498.92        0.68087                    439202.35
3761498.92        0.71325
         439252.35    3761498.92        0.74848                    439302.35
3761498.92        0.78272
         439352.35    3761498.92        0.81898                    439402.35
3761498.92        0.85688
         439452.35    3761498.92        0.89607                    439502.35
3761498.92        0.93856
         439552.35    3761498.92        0.98095                    439152.35
3761548.92        0.70444
         439202.35    3761548.92        0.73946                    439252.35
3761548.92        0.77732
         439302.35    3761548.92        0.81526                    439352.35
3761548.92        0.85487
         439402.35    3761548.92        0.89815                    439452.35
3761548.92        0.94301
         439502.35    3761548.92        0.98988                    439552.35
3761548.92        1.03910
         439152.35    3761598.92        0.72790                    439202.35
3761598.92        0.76525
         439252.35    3761598.92        0.80623                    439302.35
3761598.92        0.84922
         439352.35    3761598.92        0.89316                    439402.35
3761598.92        0.94194
         439452.35    3761598.92        0.99335                    439502.35
3761598.92        1.04561
         439552.35    3761598.92        1.10233                    439152.35
3761648.92        0.75080
         439202.35    3761648.92        0.79169                    439252.35
3761648.92        0.83638
         439302.35    3761648.92        0.88398                    439352.35
3761648.92        0.93374
         439402.35    3761648.92        0.98806                    439452.35
3761648.92        1.04523
         439502.35    3761648.92        1.10653                    439552.35
3761648.92        1.17080
         439152.35    3761698.92        0.77364                    439202.35
3761698.92        0.81743
         439252.35    3761698.92        0.86469                    439302.35
3761698.92        0.91710
         439352.35    3761698.92        0.97383                    439402.35
3761698.92        1.03531
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       21:56:46
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***

INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.09724	439502.35	3761698.92	1.16785
439552.35	3761698.92	1.24229	439152.35	3761748.92	0.79559
439202.35	3761748.92	0.84317	439252.35	3761748.92	0.89336
439302.35	3761748.92	0.95056	439352.35	3761748.92	1.01203
439402.35	3761748.92	1.07908	439452.35	3761748.92	1.15012
439502.35	3761748.92	1.22616	439552.35	3761748.92	1.31222
439152.35	3761798.92	0.81725	439202.35	3761798.92	0.86864
439252.35	3761798.92	0.92360	439302.35	3761798.92	0.98573
439352.35	3761798.92	1.05082	439402.35	3761798.92	1.12364
439452.35	3761798.92	1.20525	439502.35	3761798.92	1.28906
439552.35	3761798.92	1.38704	439152.35	3761848.92	0.83851
439202.35	3761848.92	0.89290	439252.35	3761848.92	0.95130
439302.35	3761848.92	1.01728	439352.35	3761848.92	1.08791
439402.35	3761848.92	1.17028	439452.35		

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3761848.92        1.25859
         439502.35    3761848.92        1.35209                   439552.35
3761848.92        1.46282
         439152.35    3761898.92        0.85943                   439202.35
3761898.92        0.91652
         439252.35    3761898.92        0.97859                   439302.35
3761898.92        1.05074
         439352.35    3761898.92        1.12826                   439402.35
3761898.92        1.21472
         439452.35    3761898.92        1.31440                   439502.35
3761898.92        1.42264
         439552.35    3761898.92        1.54376                   439152.35
3761948.92        0.87889
         439202.35    3761948.92        0.93882                   439252.35
3761948.92        1.00438
         439302.35    3761948.92        1.08158                   439352.35
3761948.92        1.16580
         439402.35    3761948.92        1.25844                   439452.35
3761948.92        1.36710
         439502.35    3761948.92        1.48792                   439552.35
3761948.92        1.62371
         439152.35    3761998.92        0.89707                   439202.35
3761998.92        0.95948
         439252.35    3761998.92        1.02856                   439302.35
3761998.92        1.11039
         439352.35    3761998.92        1.20128                   439402.35
3761998.92        1.30011
         439452.35    3761998.92        1.41514                   439502.35
3761998.92        1.54589
         439552.35    3761998.92        1.69619                   439152.35
3762048.92        0.91371
         439202.35    3762048.92        0.98042                   439252.35
3762048.92        1.05484
         439302.35    3762048.92        1.13873                   439352.35
3762048.92        1.23335
         439402.35    3762048.92        1.33980                   439452.35
3762048.92        1.46311
         439502.35    3762048.92        1.60433                   439552.35
3762048.92        1.76708
         439616.61    3761420.65        0.94013                   439666.61
3761420.65        0.97626
         439716.61    3761420.65        1.01228                   439766.61
3761420.65        1.04830
         439816.61    3761420.65        1.08288                   439866.61
3761420.65        1.11868
         439616.61    3761470.65        0.99972                   439666.61
3761470.65        1.04048
         439716.61    3761470.65        1.08188                   439766.61
3761470.65        1.12343
         439816.61    3761470.65        1.16370                   439866.61
3761470.65        1.20611
```

                                 *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                    INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439716.61   3761520.65   1.15939   439766.61
3761520.65   1.20877
         439816.61   3761520.65   1.25637   439866.61
3761520.65   1.30541
         439616.61   3761570.65   1.13497   439666.61
3761570.65   1.18985
         439716.61   3761570.65   1.24607   439766.61
3761570.65   1.30400
         439816.61   3761570.65   1.36121   439866.61
3761570.65   1.41750
         440451.14   3762893.83   2.67191   440501.14
3762893.83   2.64169
         440551.14   3762893.83   2.63015   440601.14
3762893.83   2.59246
         440651.14   3762893.83   2.56329   440701.14
3762893.83   2.54932
         440751.14   3762893.83   2.55171   440801.14
3762893.83   2.53874
         440851.14   3762893.83   2.53520   440451.14
3762943.83   2.23033

```
         440501.14    3762943.83        2.18030                    440551.14
3762943.83        2.18141
         440601.14    3762943.83        2.14829                    440651.14
3762943.83        2.14500
         440701.14    3762943.83        2.14593                    440751.14
3762943.83        2.16784
         440801.14    3762943.83        2.14433                    440851.14
3762943.83        2.12324
         441116.67    3763135.31        1.24246                    441166.67
3763135.31        1.24294
         441116.67    3763185.31        1.10606                    441166.67
3763185.31        1.11086
         441116.67    3763235.31        0.99095                    441166.67
3763235.31        0.99677
         441116.67    3763285.31        0.88585                    441166.67
3763285.31        0.89597
         441116.67    3763335.31        0.79734                    441166.67
3763335.31        0.80618
         441116.67    3763385.31        0.72193                    441166.67
3763385.31        0.72738
         441116.67    3763435.31        0.65529                    441166.67
3763435.31        0.66177
         440433.43    3762815.13        3.99923                    440483.43
3762815.13        3.92306
         440533.43    3762815.13        3.85868                    440583.43
3762815.13        3.73441
         440633.43    3762815.13        3.65839                    440683.43
3762815.13        3.57843
         440733.43    3762815.13        3.47776                    440783.43
3762815.13        3.38550
         440833.43    3762815.13        3.26931                    440883.43
3762815.13        3.14722
         440933.43    3762815.13        3.00748                    440983.43
3762815.13        2.86025
         440433.43    3762865.13        3.02821                    440483.43
3762865.13        3.11748
         440533.43    3762865.13        3.08521                    440583.43
3762865.13        3.02465
         440633.43    3762865.13        2.96251                    440683.43
3762865.13        2.92994
         440733.43    3762865.13        2.88016                    440783.43
3762865.13        2.84275
         440833.43    3762865.13        2.79500                    440883.43
3762865.13        2.72511
         440933.43    3762865.13        2.63772                    440983.43
3762865.13        2.54066
         441118.27    3762686.02        2.99822                    441168.27
3762686.02        2.77215
         441118.27    3762736.02        2.80274                    441168.27
3762736.02        2.61224
         441118.27    3762786.02        2.59502                    441168.27
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3762786.02   2.43803
         441118.27   3762836.02   2.38011   441168.27
3762836.02   2.25573
         440411.67   3762093.41   8.19287   440461.67
3762093.41   7.35484
         440511.67   3762093.41   6.59397   440561.67
3762093.41   5.92393
         440611.67   3762093.41   5.34584   440411.67
3762143.41   10.73948

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                    INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                         *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
3762008.86        2.77776
         440906.61    3762008.86        2.60551                       440956.61
3762008.86        2.44151
         441006.61    3762008.86        2.29226                       441056.61
3762008.86        2.15244
         441106.61    3762008.86        2.02704                       441156.61
3762008.86        1.91221
         440406.61    3762058.86        7.00391                       440456.61
3762058.86        6.38292
         440506.61    3762058.86        5.78621                       440556.61
3762058.86        5.24507
         440606.61    3762058.86        4.76890                       440656.61
3762058.86        4.36039
         440706.61    3762058.86        4.00877                       440756.61
3762058.86        3.69583
         440806.61    3762058.86        3.40932                       440856.61
3762058.86        3.16168
         440906.61    3762058.86        2.94083                       440956.61
3762058.86        2.73737
         441006.61    3762058.86        2.55236                       441056.61
3762058.86        2.38477
         441106.61    3762058.86        2.23236                       441156.61
3762058.86        2.09387
         440191.38    3762138.44       12.03481                       440241.38
3762138.44       12.93805
         440291.38    3762138.44       12.97724                       440341.38
3762138.44       12.11165
         440191.38    3762188.44       17.30245                       440241.38
3762188.44       19.15800
         440291.38    3762188.44       19.41626                       440341.38
3762188.44       17.59690
         440191.38    3762238.44       26.90355                       440241.38
3762238.44       32.62897
         440291.38    3762238.44       33.06517                       440341.38
3762238.44       27.92428
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:56:46

                                  PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                  INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                 L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
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***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	1.37102	439943.36	3761716.33	1.91611
439170.17	3763092.51	0.66513	439220.17	3763092.51	0.68780
439270.17	3763092.51	0.72569	439320.17	3763092.51	0.75271
439370.17	3763092.51	0.79318	439420.17	3763092.51	0.84109
439470.17	3763092.51	0.91820	439520.17	3763092.51	0.97144
439570.17	3763092.51	1.01223	439620.17	3763092.51	1.04377
439670.17	3763092.51	1.06697	439720.17	3763092.51	1.09358
439770.17	3763092.51	1.14170	439820.17	3763092.51	1.18632
439870.17	3763092.51	1.22836	439170.17	3763142.51	0.61939
439220.17	3763142.51	0.63819	439270.17	3763142.51	0.68121
439320.17	3763142.51	0.70223	439370.17	3763142.51	0.73847
439420.17	3763142.51	0.79256	439470.17	3763142.51	0.81790
439520.17	3763142.51	0.85622	439570.17	3763142.51	0.90593
439620.17	3763142.51	0.94900	439670.17	3763142.51	0.96240
439720.17	3763142.51	0.99650	439770.17	3763142.51	1.03187
439820.17	3763142.51	1.06329	439870.17	3763142.51	1.09361
439170.17	3763192.51	0.58105	439220.17	3763192.51	0.60626
439270.17	3763192.51	0.63826	439320.17	3763192.51	0.66211
439370.17	3763192.51	0.69533	439420.17	3763192.51	0.73519
439470.17	3763192.51	0.76390	439520.17	3763192.51	0.79849
439570.17	3763192.51	0.83576	439620.17	3763192.51	0.87469

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         439670.17    3763192.51        0.87955                        439720.17
3763192.51        0.89720
         439770.17    3763192.51        0.92121                        439820.17
3763192.51        0.94962
         439870.17    3763192.51        0.97702                        439170.17
3763242.51        0.54300
         439220.17    3763242.51        0.56621                        439270.17
3763242.51        0.59405
         439320.17    3763242.51        0.61916                        439370.17
3763242.51        0.64733
         439420.17    3763242.51        0.67637                        439470.17
3763242.51        0.69980
         439520.17    3763242.51        0.72902                        439570.17
3763242.51        0.76015
         439620.17    3763242.51        0.79162                        439670.17
3763242.51        0.81024
         439720.17    3763242.51        0.82236                        439770.17
3763242.51        0.83916
         439820.17    3763242.51        0.85675                        439870.17
3763242.51        0.87728
         439170.17    3763292.51        0.51144                        439220.17
3763292.51        0.52608
         439270.17    3763292.51        0.54838                        439320.17
3763292.51        0.57465
         439370.17    3763292.51        0.60563                        439420.17
3763292.51        0.62357
         439470.17    3763292.51        0.64365                        439520.17
3763292.51        0.66460
         439570.17    3763292.51        0.69849                        439620.17
3763292.51        0.72066
         439670.17    3763292.51        0.74164                        439720.17
3763292.51        0.75234
         439770.17    3763292.51        0.75830                        439820.17
3763292.51        0.77449
         439870.17    3763292.51        0.79412                        439170.17
3763342.51        0.48217
         439220.17    3763342.51        0.49645                        439270.17
3763342.51        0.52105
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:56:46

                                   PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
```

, L0013638   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.54225	439370.17	3763342.51	0.56832
439420.17	3763342.51	0.58515	439470.17	3763342.51	0.60109
439520.17	3763342.51	0.61837	439570.17	3763342.51	0.64247
439620.17	3763342.51	0.66672	439670.17	3763342.51	0.68121
439720.17	3763342.51	0.69153	439770.17	3763342.51	0.69338
439820.17	3763342.51	0.70614	439870.17	3763342.51	0.72108
439170.17	3763392.51	0.45492	439220.17	3763392.51	0.46953
439270.17	3763392.51	0.49194	439320.17	3763392.51	0.50557
439370.17	3763392.51	0.52615	439420.17	3763392.51	0.53893
439470.17	3763392.51	0.55290	439520.17	3763392.51	0.57555
439570.17	3763392.51	0.59524	439620.17	3763392.51	0.61596
439670.17	3763392.51	0.62497	439720.17	3763392.51	0.63757
439770.17	3763392.51	0.64069	439820.17	3763392.51	0.64906
439870.17	3763392.51	0.65975	439170.17	3763442.51	0.42977
439220.17	3763442.51	0.44316	439270.17	3763442.51	0.46347
439320.17	3763442.51	0.47855	439370.17	3763442.51	0.49226
439420.17	3763442.51	0.50681	439470.17	3763442.51	0.51872
439520.17	3763442.51	0.53766	439570.17	3763442.51	0.55212
439620.17	3763442.51	0.56835	439670.17	3763442.51	0.57759
439720.17	3763442.51	0.58560	439770.17		

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3763442.51        0.59011
         439820.17    3763442.51        0.59747                        439870.17
3763442.51        0.60755
         439203.20    3762911.16        0.84918                        439253.20
3762911.16        0.90513
         439303.20    3762911.16        0.96678                        439353.20
3762911.16        1.03529
         439403.20    3762911.16        1.11026                        439453.20
3762911.16        1.19286
         439503.20    3762911.16        1.28457                        439553.20
3762911.16        1.38529
         439203.20    3762961.16        0.82091                        439253.20
3762961.16        0.87284
         439303.20    3762961.16        0.92942                        439353.20
3762961.16        0.99172
         439403.20    3762961.16        1.05992                        439453.20
3762961.16        1.13422
         439503.20    3762961.16        1.21601                        439553.20
3762961.16        1.30485
         439203.20    3763011.16        0.76855                        439253.20
3763011.16        0.80551
         439303.20    3763011.16        0.84424                        439353.20
3763011.16        0.88558
         439403.20    3763011.16        1.01054                        439453.20
3763011.16        1.06557
         439503.20    3763011.16        1.14971                        439553.20
3763011.16        1.19979
         439203.20    3763061.16        0.71406                        439253.20
3763061.16        0.73379
         439303.20    3763061.16        0.77324                        439353.20
3763061.16        0.80585
         439403.20    3763061.16        0.86580                        439453.20
3763061.16        0.93282
         439503.20    3763061.16        1.00606                        439553.20
3763061.16        1.05098
         439196.01    3762392.48        1.04278                        439246.01
3762392.48        1.12991
         439296.01    3762392.48        1.22918                        439346.01
3762392.48        1.34326
         439396.01    3762392.48        1.47524                        439446.01
3762392.48        1.62883
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
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INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	1.81124	439546.01	3762392.48	2.02972
439196.01	3762442.48	1.03599	439246.01	3762442.48	1.12211
439296.01	3762442.48	1.22094	439346.01	3762442.48	1.33392
439396.01	3762442.48	1.46479	439446.01	3762442.48	1.61779
439496.01	3762442.48	1.79794	439546.01	3762442.48	2.01263
439196.01	3762492.48	1.02519	439246.01	3762492.48	1.10953
439296.01	3762492.48	1.20619	439346.01	3762492.48	1.31708
439396.01	3762492.48	1.44481	439446.01	3762492.48	1.59365
439496.01	3762492.48	1.76973	439546.01	3762492.48	1.97857
439196.01	3762542.48	1.01102	439246.01	3762542.48	1.09297
439296.01	3762542.48	1.18668	439346.01	3762542.48	1.29370
439396.01	3762542.48	1.41743	439446.01	3762542.48	1.56095
439496.01	3762542.48	1.72991	439546.01	3762542.48	1.92896
439196.01	3762592.48	0.99392	439246.01	3762592.48	1.07355
439296.01	3762592.48	1.16366	439346.01	3762592.48	1.26632
439396.01	3762592.48	1.38432	439446.01	3762592.48	1.52115
439496.01	3762592.48	1.68108	439546.01	3762592.48	1.86849
439196.01	3762642.48	0.97434	439246.01	3762642.48	1.05071

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         439296.01    3762642.48        1.13686                        439346.01
3762642.48        1.23453
         439396.01    3762642.48        1.34671                        439446.01
3762642.48        1.47580
         439496.01    3762642.48        1.62540                        439546.01
3762642.48        1.79968
         439196.01    3762692.48        0.95268                        439246.01
3762692.48        1.02552
         439296.01    3762692.48        1.10747                        439346.01
3762692.48        1.20024
         439396.01    3762692.48        1.30559                        439446.01
3762692.48        1.42612
         439496.01    3762692.48        1.56459                        439546.01
3762692.48        1.72475
         439196.01    3762742.48        0.92929                        439246.01
3762742.48        0.99847
         439296.01    3762742.48        1.07580                        439346.01
3762742.48        1.16292
         439396.01    3762742.48        1.26131                        439446.01
3762742.48        1.37294
         439496.01    3762742.48        1.49980                        439546.01
3762742.48        1.64551
         439196.01    3762792.48        0.90447                        439246.01
3762792.48        0.96988
         439296.01    3762792.48        1.04234                        439346.01
3762792.48        1.12346
         439396.01    3762792.48        1.21453                        439446.01
3762792.48        1.31721
         439496.01    3762792.48        1.43259                        439546.01
3762792.48        1.56380
         439196.01    3762842.48        0.87852                        439246.01
3762842.48        0.93989
         439296.01    3762842.48        1.00757                        439346.01
3762842.48        1.08277
         439396.01    3762842.48        1.16645                        439446.01
3762842.48        1.26002
         439496.01    3762842.48        1.36419                        439546.01
3762842.48        1.48145
         439573.31    3762470.54        2.12769                        439623.31
3762470.54        2.41296
         439673.31    3762470.54        2.76383                        439723.31
3762470.54        3.20283
         439773.31    3762470.54        3.76497                        439823.31
3762470.54        4.50040
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:56:46

                                  PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***

INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	5.49642	439573.31	3762520.54	2.07916
439623.31	3762520.54	2.35049	439673.31	3762520.54	2.68302
439723.31	3762520.54	3.09620	439773.31	3762520.54	3.61875
439823.31	3762520.54	4.29261	439873.31	3762520.54	5.18988
439573.31	3762570.54	2.01620	439623.31	3762570.54	2.27031
439673.31	3762570.54	2.57845	439723.31	3762570.54	2.95700
439773.31	3762570.54	3.42935	439823.31	3762570.54	4.02870
439873.31	3762570.54	4.80378	439573.31	3762620.54	1.94240
439623.31	3762620.54	2.17648	439673.31	3762620.54	2.45709
439723.31	3762620.54	2.79708	439773.31	3762620.54	3.21414
439823.31	3762620.54	3.73144	439873.31	3762620.54	4.37884
439573.31	3762670.54	1.86071	439623.31	3762670.54	2.07281
439673.31	3762670.54	2.32449	439723.31	3762670.54	2.62450
439773.31	3762670.54	2.98437	439823.31	3762670.54	3.42014
439873.31	3762670.54	3.94906	439152.35	3761448.92	0.65387
439202.35	3761448.92	0.68115	439252.35	3761448.92	0.71099
439302.35	3761448.92	0.74187	439352.35		

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3761448.92        0.77393
         439402.35    3761448.92        0.80695                     439452.35
3761448.92        0.84063
         439502.35    3761448.92        0.87623                     439552.35
3761448.92        0.91114
         439152.35    3761498.92        0.67802                     439202.35
3761498.92        0.70942
         439252.35    3761498.92        0.74354                     439302.35
3761498.92        0.77643
         439352.35    3761498.92        0.81120                     439402.35
3761498.92        0.84746
         439452.35    3761498.92        0.88486                     439502.35
3761498.92        0.92545
         439552.35    3761498.92        0.96579                     439152.35
3761548.92        0.70231
         439202.35    3761548.92        0.73635                     439252.35
3761548.92        0.77307
         439302.35    3761548.92        0.80961                     439352.35
3761548.92        0.84761
         439402.35    3761548.92        0.88911                     439452.35
3761548.92        0.93197
         439502.35    3761548.92        0.97664                     439552.35
3761548.92        1.02348
         439152.35    3761598.92        0.72658                     439202.35
3761598.92        0.76297
         439252.35    3761598.92        0.80282                     439302.35
3761598.92        0.84443
         439352.35    3761598.92        0.88669                     439402.35
3761598.92        0.93357
         439452.35    3761598.92        0.98280                     439502.35
3761598.92        1.03256
         439552.35    3761598.92        1.08654                     439152.35
3761648.92        0.75037
         439202.35    3761648.92        0.79038                     439252.35
3761648.92        0.83400
         439302.35    3761648.92        0.88027                     439352.35
3761648.92        0.92835
         439402.35    3761648.92        0.98069                     439452.35
3761648.92        1.03551
         439502.35    3761648.92        1.09410                     439552.35
3761648.92        1.15525
         439152.35    3761698.92        0.77417                     439202.35
3761698.92        0.81716
         439252.35    3761698.92        0.86340                     439302.35
3761698.92        0.91458
         439352.35    3761698.92        0.96975                     439402.35
3761698.92        1.02930
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:56:46
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***

INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.08873	439502.35	3761698.92	1.15647
439552.35	3761698.92	1.22748	439152.35	3761748.92	0.79711
439202.35	3761748.92	0.84406	439252.35	3761748.92	0.89332
439302.35	3761748.92	0.94943	439352.35	3761748.92	1.00944
439402.35	3761748.92	1.07462	439452.35	3761748.92	1.14321
439502.35	3761748.92	1.21620	439552.35	3761748.92	1.29863
439152.35	3761798.92	0.81985	439202.35	3761798.92	0.87077
439252.35	3761798.92	0.92501	439302.35	3761798.92	0.98625
439352.35	3761798.92	1.04997	439402.35	3761798.92	1.12104
439452.35	3761798.92	1.20044	439502.35	3761798.92	1.28115
439552.35	3761798.92	1.37543	439152.35	3761848.92	0.84225
439202.35	3761848.92	0.89633	439252.35	3761848.92	0.95416
439302.35	3761848.92	1.01944	439352.35	3761848.92	1.08893
439402.35	3761848.92	1.16994	439452.35	3761848.92	1.25620
439502.35	3761848.92	1.34676	439552.35	3761848.92	1.45391

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         439152.35    3761898.92        0.86440                    439202.35
3761898.92        0.92133
         439252.35    3761898.92        0.98304                    439302.35
3761898.92        1.05482
         439352.35    3761898.92        1.13155                    439402.35
3761898.92        1.21684
         439452.35    3761898.92        1.31499                    439502.35
3761898.92        1.42080
         439552.35    3761898.92        1.53852                    439152.35
3761948.92        0.88512
         439202.35    3761948.92        0.94506                    439252.35
3761948.92        1.01047
         439302.35    3761948.92        1.08764                    439352.35
3761948.92        1.17147
         439402.35    3761948.92        1.26328                    439452.35
3761948.92        1.37092
         439502.35    3761948.92        1.48995                    439552.35
3761948.92        1.62295
         439152.35    3761998.92        0.90460                    439202.35
3761998.92        0.96719
         439252.35    3761998.92        1.03635                    439302.35
3761998.92        1.11850
         439352.35    3761998.92        1.20947                    439402.35
3761998.92        1.30787
         439452.35    3761998.92        1.42231                    439502.35
3761998.92        1.55189
         439552.35    3761998.92        1.70024                    439152.35
3762048.92        0.92260
         439202.35    3762048.92        0.98983                    439252.35
3762048.92        1.06475
         439302.35    3762048.92        1.14913                    439352.35
3762048.92        1.24413
         439402.35    3762048.92        1.35073                    439452.35
3762048.92        1.47410
         439502.35    3762048.92        1.61494                    439552.35
3762048.92        1.77662
         439616.61    3761420.65        0.92383                    439666.61
3761420.65        0.95814
         439716.61    3761420.65        0.99218                    439766.61
3761420.65        1.02601
         439816.61    3761420.65        1.05819                    439866.61
3761420.65        1.09136
         439616.61    3761470.65        0.98234                    439666.61
3761470.65        1.02097
         439716.61    3761470.65        1.06007                    439766.61
3761470.65        1.09910
         439816.61    3761470.65        1.13658                    439866.61
3761470.65        1.17592
         439616.61    3761520.65        1.04575                    439666.61
3761520.65        1.09048
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	1.13575	439766.61	3761520.65	1.18217
439816.61	3761520.65	1.22651	439866.61	3761520.65	1.27196
439616.61	3761570.65	1.11567	439666.61	3761570.65	1.16754
439716.61	3761570.65	1.22053	439766.61	3761570.65	1.27494
439816.61	3761570.65	1.32829	439866.61	3761570.65	1.38031
440451.14	3762893.83	2.89373	440501.14	3762893.83	2.89724
440551.14	3762893.83	2.89805	440601.14	3762893.83	2.82528
440651.14	3762893.83	2.79862	440701.14	3762893.83	2.77504
440751.14	3762893.83	2.76694	440801.14	3762893.83	2.72559
440851.14	3762893.83	2.68265	440451.14	3762943.83	2.37988
440501.14	3762943.83	2.34107	440551.14	3762943.83	2.36249
440601.14	3762943.83	2.30225	440651.14	3762943.83	2.32338
440701.14	3762943.83	2.31996	440751.14	3762943.83	2.33767
440801.14	3762943.83	2.30202	440851.14		

3762943.83 2.27351
441116.67 3763135.31 1.30675 441166.67
3763135.31 1.30349
441116.67 3763185.31 1.16260 441166.67
3763185.31 1.16536
441116.67 3763235.31 1.03988 441166.67
3763235.31 1.04480
441116.67 3763285.31 0.92818 441166.67
3763285.31 0.93791
441116.67 3763335.31 0.83389 441166.67
3763335.31 0.84272
441116.67 3763385.31 0.75348 441166.67
3763385.31 0.75923
441116.67 3763435.31 0.68261 441166.67
3763435.31 0.68948
440433.43 3762815.13 4.36305 440483.43
3762815.13 4.28138
440533.43 3762815.13 4.23791 440583.43
3762815.13 4.08930
440633.43 3762815.13 4.00807 440683.43
3762815.13 3.89061
440733.43 3762815.13 3.74687 440783.43
3762815.13 3.61479
440833.43 3762815.13 3.44951 440883.43
3762815.13 3.28856
440933.43 3762815.13 3.11666 440983.43
3762815.13 2.94498
440433.43 3762865.13 3.37038 440483.43
3762865.13 3.30508
440533.43 3762865.13 3.28627 440583.43
3762865.13 3.22931
440633.43 3762865.13 3.17890 440683.43
3762865.13 3.13697
440733.43 3762865.13 3.08439 440783.43
3762865.13 3.03211
440833.43 3762865.13 2.96351 440883.43
3762865.13 2.86985
440933.43 3762865.13 2.75731 440983.43
3762865.13 2.63555
441118.27 3762686.02 2.97821 441168.27
3762686.02 2.74886
441118.27 3762736.02 2.80585 441168.27
3762736.02 2.60793
441118.27 3762786.02 2.61835 441168.27
3762786.02 2.45092
441118.27 3762836.02 2.42020 441168.27
3762836.02 2.28357
440411.67 3762093.41 7.19137 440461.67
3762093.41 6.48211
440511.67 3762093.41 5.84624 440561.67
3762093.41 5.28752

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 ,
L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	8.12108	440511.67	3762143.41	7.20617
440561.67	3762143.41	6.42353	440611.67	3762143.41	5.77477
440406.61	3762008.86	5.07645	440456.61	3762008.86	4.71715
440506.61	3762008.86	4.35208	440556.61	3762008.86	4.00531
440606.61	3762008.86	3.69375	440656.61	3762008.86	3.41776
440706.61	3762008.86	3.17512	440756.61	3762008.86	2.96007
440806.61	3762008.86	2.75813	440856.61	3762008.86	2.58563
440906.61	3762008.86	2.43287	440956.61	3762008.86	2.28614
441006.61	3762008.86	2.15210	441056.61	3762008.86	2.02580
441106.61	3762008.86	1.91234	441156.61	3762008.86	1.80815
440406.61	3762058.86	6.22291	440456.61	3762058.86	5.68635
440506.61	3762058.86	5.17801	440556.61	3762058.86	4.71912

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         440606.61    3762058.86        4.31471                      440656.61
3762058.86        3.96643
         440706.61    3762058.86        3.66506                      440756.61
3762058.86        3.39457
         440806.61    3762058.86        3.14432                      440856.61
3762058.86        2.92738
         440906.61    3762058.86        2.73300                      440956.61
3762058.86        2.55258
         441006.61    3762058.86        2.38764                      441056.61
3762058.86        2.23757
         441106.61    3762058.86        2.10052                      441156.61
3762058.86        1.97549
         440191.38    3762138.44       10.74853                      440241.38
3762138.44       11.32316
         440291.38    3762138.44       11.20436                      440341.38
3762138.44       10.39712
         440191.38    3762188.44       15.14603                      440241.38
3762188.44       16.24069
         440291.38    3762188.44       16.16158                      440341.38
3762188.44       14.57909
         440191.38    3762238.44       22.91794                      440241.38
3762238.44       26.10954
         440291.38    3762238.44       25.81470                      440341.38
3762238.44       21.85662
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:56:46

                                   PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN    ***
                                   INCLUDING SOURCE(S):     PAREA4      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         440407.86    3761497.84        0.00043                      439943.36
3761716.33        0.00088
         439170.17    3763092.51        0.00015                      439220.17
3763092.51        0.00015
         439270.17    3763092.51        0.00015                      439320.17
```

3763092.51 0.00014
439370.17 3763092.51 0.00014 439420.17
3763092.51 0.00013
439470.17 3763092.51 0.00013 439520.17
3763092.51 0.00012
439570.17 3763092.51 0.00011 439620.17
3763092.51 0.00011
439670.17 3763092.51 0.00011 439720.17
3763092.51 0.00011
439770.17 3763092.51 0.00013 439820.17
3763092.51 0.00015
439870.17 3763092.51 0.00017 439170.17
3763142.51 0.00013
439220.17 3763142.51 0.00013 439270.17
3763142.51 0.00012
439320.17 3763142.51 0.00012 439370.17
3763142.51 0.00011
439420.17 3763142.51 0.00011 439470.17
3763142.51 0.00010
439520.17 3763142.51 0.00009 439570.17
3763142.51 0.00009
439620.17 3763142.51 0.00009 439670.17
3763142.51 0.00009
439720.17 3763142.51 0.00010 439770.17
3763142.51 0.00011
439820.17 3763142.51 0.00013 439870.17
3763142.51 0.00016
439170.17 3763192.51 0.00011 439220.17
3763192.51 0.00010
439270.17 3763192.51 0.00010 439320.17
3763192.51 0.00009
439370.17 3763192.51 0.00009 439420.17
3763192.51 0.00008
439470.17 3763192.51 0.00008 439520.17
3763192.51 0.00007
439570.17 3763192.51 0.00007 439620.17
3763192.51 0.00008
439670.17 3763192.51 0.00008 439720.17
3763192.51 0.00009
439770.17 3763192.51 0.00011 439820.17
3763192.51 0.00012
439870.17 3763192.51 0.00015 439170.17
3763242.51 0.00009
439220.17 3763242.51 0.00009 439270.17
3763242.51 0.00008
439320.17 3763242.51 0.00008 439370.17
3763242.51 0.00007
439420.17 3763242.51 0.00007 439470.17
3763242.51 0.00006
439520.17 3763242.51 0.00006 439570.17
3763242.51 0.00006

```
         439620.17    3763242.51        0.00007                       439670.17
3763242.51        0.00007
         439720.17    3763242.51        0.00009                       439770.17
3763242.51        0.00010
         439820.17    3763242.51        0.00012                       439870.17
3763242.51        0.00013
         439170.17    3763292.51        0.00007                       439220.17
3763292.51        0.00007
         439270.17    3763292.51        0.00006                       439320.17
3763292.51        0.00006
         439370.17    3763292.51        0.00006                       439420.17
3763292.51        0.00005
         439470.17    3763292.51        0.00005                       439520.17
3763292.51        0.00005
         439570.17    3763292.51        0.00006                       439620.17
3763292.51        0.00006
         439670.17    3763292.51        0.00007                       439720.17
3763292.51        0.00008
         439770.17    3763292.51        0.00009                       439820.17
3763292.51        0.00011
         439870.17    3763292.51        0.00012                       439170.17
3763342.51        0.00006
         439220.17    3763342.51        0.00006                       439270.17
3763342.51        0.00005
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:56:46

                                  PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN    ***
                                  INCLUDING SOURCE(S):     PAREA4      ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                            ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         439320.17    3763342.51        0.00005                       439370.17
3763342.51        0.00005
         439420.17    3763342.51        0.00005                       439470.17
3763342.51        0.00005
         439520.17    3763342.51        0.00005                       439570.17
```

```
3763342.51        0.00005
         439620.17    3763342.51        0.00006                    439670.17
3763342.51        0.00007
         439720.17    3763342.51        0.00008                    439770.17
3763342.51        0.00009
         439820.17    3763342.51        0.00010                    439870.17
3763342.51        0.00011
         439170.17    3763392.51        0.00005                    439220.17
3763392.51        0.00005
         439270.17    3763392.51        0.00004                    439320.17
3763392.51        0.00004
         439370.17    3763392.51        0.00004                    439420.17
3763392.51        0.00004
         439470.17    3763392.51        0.00004                    439520.17
3763392.51        0.00004
         439570.17    3763392.51        0.00005                    439620.17
3763392.51        0.00006
         439670.17    3763392.51        0.00006                    439720.17
3763392.51        0.00007
         439770.17    3763392.51        0.00009                    439820.17
3763392.51        0.00010
         439870.17    3763392.51        0.00011                    439170.17
3763442.51        0.00004
         439220.17    3763442.51        0.00004                    439270.17
3763442.51        0.00004
         439320.17    3763442.51        0.00003                    439370.17
3763442.51        0.00003
         439420.17    3763442.51        0.00004                    439470.17
3763442.51        0.00004
         439520.17    3763442.51        0.00004                    439570.17
3763442.51        0.00005
         439620.17    3763442.51        0.00005                    439670.17
3763442.51        0.00006
         439720.17    3763442.51        0.00007                    439770.17
3763442.51        0.00008
         439820.17    3763442.51        0.00009                    439870.17
3763442.51        0.00010
         439203.20    3762911.16        0.00026                    439253.20
3762911.16        0.00027
         439303.20    3762911.16        0.00028                    439353.20
3762911.16        0.00029
         439403.20    3762911.16        0.00030                    439453.20
3762911.16        0.00030
         439503.20    3762911.16        0.00030                    439553.20
3762911.16        0.00030
         439203.20    3762961.16        0.00023                    439253.20
3762961.16        0.00024
         439303.20    3762961.16        0.00024                    439353.20
3762961.16        0.00024
         439403.20    3762961.16        0.00024                    439453.20
3762961.16        0.00024
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439503.20	3762961.16	0.00024	439553.20	3762961.16	0.00023
439203.20	3763011.16	0.00020	439253.20	3763011.16	0.00020
439303.20	3763011.16	0.00020	439353.20	3763011.16	0.00020
439403.20	3763011.16	0.00020	439453.20	3763011.16	0.00019
439503.20	3763011.16	0.00018	439553.20	3763011.16	0.00018
439203.20	3763061.16	0.00017	439253.20	3763061.16	0.00017
439303.20	3763061.16	0.00017	439353.20	3763061.16	0.00016
439403.20	3763061.16	0.00016	439453.20	3763061.16	0.00015
439503.20	3763061.16	0.00014	439553.20	3763061.16	0.00013
439196.01	3762392.48	0.00043	439246.01	3762392.48	0.00048
439296.01	3762392.48	0.00054	439346.01	3762392.48	0.00060
439396.01	3762392.48	0.00068	439446.01	3762392.48	0.00078
439496.01	3762392.48	0.00090	439546.01	3762392.48	0.00105
439196.01	3762442.48	0.00042	439246.01	3762442.48	0.00046
439296.01	3762442.48	0.00052	439346.01		

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3762442.48        0.00058
         439396.01    3762442.48        0.00066                    439446.01
3762442.48        0.00075
         439496.01    3762442.48        0.00087                    439546.01
3762442.48        0.00101
         439196.01    3762492.48        0.00040                    439246.01
3762492.48        0.00045
         439296.01    3762492.48        0.00050                    439346.01
3762492.48        0.00056
         439396.01    3762492.48        0.00064                    439446.01
3762492.48        0.00072
         439496.01    3762492.48        0.00083                    439546.01
3762492.48        0.00097
         439196.01    3762542.48        0.00039                    439246.01
3762542.48        0.00044
         439296.01    3762542.48        0.00049                    439346.01
3762542.48        0.00055
         439396.01    3762542.48        0.00062                    439446.01
3762542.48        0.00070
         439496.01    3762542.48        0.00080                    439546.01
3762542.48        0.00092
         439196.01    3762592.48        0.00038                    439246.01
3762592.48        0.00043
         439296.01    3762592.48        0.00047                    439346.01
3762592.48        0.00053
         439396.01    3762592.48        0.00059                    439446.01
3762592.48        0.00067
         439496.01    3762592.48        0.00076                    439546.01
3762592.48        0.00087
         439196.01    3762642.48        0.00038                    439246.01
3762642.48        0.00041
         439296.01    3762642.48        0.00046                    439346.01
3762642.48        0.00051
         439396.01    3762642.48        0.00057                    439446.01
3762642.48        0.00063
         439496.01    3762642.48        0.00071                    439546.01
3762642.48        0.00080
         439196.01    3762692.48        0.00036                    439246.01
3762692.48        0.00040
         439296.01    3762692.48        0.00044                    439346.01
3762692.48        0.00048
         439396.01    3762692.48        0.00053                    439446.01
3762692.48        0.00059
         439496.01    3762692.48        0.00065                    439546.01
3762692.48        0.00071
         439196.01    3762742.48        0.00035                    439246.01
3762742.48        0.00038
         439296.01    3762742.48        0.00041                    439346.01
3762742.48        0.00045
         439396.01    3762742.48        0.00048                    439446.01
3762742.48        0.00053
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762742.48	0.00057	439546.01	3762742.48	0.00061
439196.01	3762792.48	0.00033	439246.01	3762792.48	0.00035
439296.01	3762792.48	0.00038	439346.01	3762792.48	0.00040
439396.01	3762792.48	0.00043	439446.01	3762792.48	0.00046
439496.01	3762792.48	0.00049	439546.01	3762792.48	0.00051
439196.01	3762842.48	0.00030	439246.01	3762842.48	0.00032
439296.01	3762842.48	0.00034	439346.01	3762842.48	0.00036
439396.01	3762842.48	0.00037	439446.01	3762842.48	0.00039
439496.01	3762842.48	0.00040	439546.01	3762842.48	0.00041
439573.31	3762470.54	0.00107	439623.31	3762470.54	0.00127
439673.31	3762470.54	0.00152	439723.31	3762470.54	0.00185
439773.31	3762470.54	0.00228	439823.31	3762470.54	0.00288
439873.31	3762470.54	0.00370	439573.31	3762520.54	0.00102
439623.31	3762520.54	0.00120	439673.31	3762520.54	0.00143
439723.31	3762520.54	0.00171	439773.31		

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3762520.54        0.00208
         439823.31    3762520.54        0.00256                    439873.31
3762520.54        0.00317
         439573.31    3762570.54        0.00097                    439623.31
3762570.54        0.00112
         439673.31    3762570.54        0.00131                    439723.31
3762570.54        0.00154
         439773.31    3762570.54        0.00181                    439823.31
3762570.54        0.00214
         439873.31    3762570.54        0.00253                    439573.31
3762620.54        0.00089
         439623.31    3762620.54        0.00101                    439673.31
3762620.54        0.00116
         439723.31    3762620.54        0.00132                    439773.31
3762620.54        0.00150
         439823.31    3762620.54        0.00169                    439873.31
3762620.54        0.00188
         439573.31    3762670.54        0.00080                    439623.31
3762670.54        0.00088
         439673.31    3762670.54        0.00098                    439723.31
3762670.54        0.00108
         439773.31    3762670.54        0.00117                    439823.31
3762670.54        0.00125
         439873.31    3762670.54        0.00132                    439152.35
3761448.92        0.00015
         439202.35    3761448.92        0.00015                    439252.35
3761448.92        0.00016
         439302.35    3761448.92        0.00017                    439352.35
3761448.92        0.00018
         439402.35    3761448.92        0.00019                    439452.35
3761448.92        0.00021
         439502.35    3761448.92        0.00024                    439552.35
3761448.92        0.00027
         439152.35    3761498.92        0.00016                    439202.35
3761498.92        0.00017
         439252.35    3761498.92        0.00017                    439302.35
3761498.92        0.00018
         439352.35    3761498.92        0.00019                    439402.35
3761498.92        0.00020
         439452.35    3761498.92        0.00022                    439502.35
3761498.92        0.00024
         439552.35    3761498.92        0.00027                    439152.35
3761548.92        0.00018
         439202.35    3761548.92        0.00018                    439252.35
3761548.92        0.00018
         439302.35    3761548.92        0.00019                    439352.35
3761548.92        0.00020
         439402.35    3761548.92        0.00021                    439452.35
3761548.92        0.00023
         439502.35    3761548.92        0.00025                    439552.35
3761548.92        0.00028
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         439152.35    3761598.92        0.00019                      439202.35
3761598.92        0.00020
         439252.35    3761598.92        0.00020                      439302.35
3761598.92        0.00021
         439352.35    3761598.92        0.00021                      439402.35
3761598.92        0.00022
         439452.35    3761598.92        0.00024                      439502.35
3761598.92        0.00026
         439552.35    3761598.92        0.00029                      439152.35
3761648.92        0.00021
         439202.35    3761648.92        0.00022                      439252.35
3761648.92        0.00022
         439302.35    3761648.92        0.00023                      439352.35
3761648.92        0.00023
         439402.35    3761648.92        0.00024                      439452.35
3761648.92        0.00025
         439502.35    3761648.92        0.00027                      439552.35
3761648.92        0.00030
         439152.35    3761698.92        0.00023                      439202.35
3761698.92        0.00024
         439252.35    3761698.92        0.00025                      439302.35
3761698.92        0.00025
         439352.35    3761698.92        0.00026                      439402.35
3761698.92        0.00027
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:56:46

                                   PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN     ***
                                   INCLUDING SOURCE(S):     PAREA4      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         439452.35    3761698.92        0.00028                      439502.35
3761698.92        0.00029
         439552.35    3761698.92        0.00032                      439152.35
3761748.92        0.00025
         439202.35    3761748.92        0.00026                      439252.35
```

3761748.92 0.00027
439302.35 3761748.92 0.00028 439352.35
3761748.92 0.00029
439402.35 3761748.92 0.00030 439452.35
3761748.92 0.00031
439502.35 3761748.92 0.00032 439552.35
3761748.92 0.00034
439152.35 3761798.92 0.00028 439202.35
3761798.92 0.00029
439252.35 3761798.92 0.00030 439302.35
3761798.92 0.00031
439352.35 3761798.92 0.00032 439402.35
3761798.92 0.00033
439452.35 3761798.92 0.00035 439502.35
3761798.92 0.00036
439552.35 3761798.92 0.00038 439152.35
3761848.92 0.00030
439202.35 3761848.92 0.00032 439252.35
3761848.92 0.00033
439302.35 3761848.92 0.00035 439352.35
3761848.92 0.00036
439402.35 3761848.92 0.00038 439452.35
3761848.92 0.00039
439502.35 3761848.92 0.00041 439552.35
3761848.92 0.00043
439152.35 3761898.92 0.00032 439202.35
3761898.92 0.00034
439252.35 3761898.92 0.00036 439302.35
3761898.92 0.00038
439352.35 3761898.92 0.00040 439402.35
3761898.92 0.00042
439452.35 3761898.92 0.00045 439502.35
3761898.92 0.00047
439552.35 3761898.92 0.00049 439152.35
3761948.92 0.00035
439202.35 3761948.92 0.00037 439252.35
3761948.92 0.00039
439302.35 3761948.92 0.00042 439352.35
3761948.92 0.00045
439402.35 3761948.92 0.00047 439452.35
3761948.92 0.00050
439502.35 3761948.92 0.00054 439552.35
3761948.92 0.00057
439152.35 3761998.92 0.00037 439202.35
3761998.92 0.00040
439252.35 3761998.92 0.00043 439302.35
3761998.92 0.00046
439352.35 3761998.92 0.00049 439402.35
3761998.92 0.00053
439452.35 3761998.92 0.00057 439502.35
3761998.92 0.00061

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439552.35	3761998.92	0.00065	439152.35	3762048.92	0.00039
439202.35	3762048.92	0.00042	439252.35	3762048.92	0.00046
439302.35	3762048.92	0.00049	439352.35	3762048.92	0.00054
439402.35	3762048.92	0.00058	439452.35	3762048.92	0.00063
439502.35	3762048.92	0.00069	439552.35	3762048.92	0.00075
439616.61	3761420.65	0.00031	439666.61	3761420.65	0.00034
439716.61	3761420.65	0.00038	439766.61	3761420.65	0.00040
439816.61	3761420.65	0.00042	439866.61	3761420.65	0.00043
439616.61	3761470.65	0.00032	439666.61	3761470.65	0.00036
439716.61	3761470.65	0.00040	439766.61	3761470.65	0.00043
439816.61	3761470.65	0.00046	439866.61	3761470.65	0.00047
439616.61	3761520.65	0.00032	439666.61	3761520.65	0.00037
439716.61	3761520.65	0.00042	439766.61	3761520.65	0.00046
439816.61	3761520.65	0.00050	439866.61	3761520.65	0.00052
439616.61	3761570.65	0.00033	439666.61		

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3761570.65        0.00038
         439716.61    3761570.65        0.00043                    439766.61
3761570.65        0.00049
         439816.61    3761570.65        0.00054                    439866.61
3761570.65        0.00058
         440451.14    3762893.83        0.00146                    440501.14
3762893.83        0.00180
         440551.14    3762893.83        0.00213                    440601.14
3762893.83        0.00239
         440651.14    3762893.83        0.00257                    440701.14
3762893.83        0.00265
         440751.14    3762893.83        0.00267                    440801.14
3762893.83        0.00264
         440851.14    3762893.83        0.00259                    440451.14
3762943.83        0.00105
         440501.14    3762943.83        0.00129                    440551.14
3762943.83        0.00155
         440601.14    3762943.83        0.00177                    440651.14
3762943.83        0.00195
         440701.14    3762943.83        0.00207                    440751.14
3762943.83        0.00213
         440801.14    3762943.83        0.00213                    440851.14
3762943.83        0.00210
         441116.67    3763135.31        0.00102                    441166.67
3763135.31        0.00101
         441116.67    3763185.31        0.00090                    441166.67
3763185.31        0.00088
         441116.67    3763235.31        0.00079                    441166.67
3763235.31        0.00078
         441116.67    3763285.31        0.00070                    441166.67
3763285.31        0.00069
         441116.67    3763335.31        0.00061                    441166.67
3763335.31        0.00062
         441116.67    3763385.31        0.00054                    441166.67
3763385.31        0.00055
         441116.67    3763435.31        0.00048                    441166.67
3763435.31        0.00049
         440433.43    3762815.13        0.00244                    440483.43
3762815.13        0.00303
         440533.43    3762815.13        0.00352                    440583.43
3762815.13        0.00384
         440633.43    3762815.13        0.00400                    440683.43
3762815.13        0.00401
         440733.43    3762815.13        0.00394                    440783.43
3762815.13        0.00384
         440833.43    3762815.13        0.00370                    440883.43
3762815.13        0.00356
         440933.43    3762815.13        0.00342                    440983.43
3762815.13        0.00327
         440433.43    3762865.13        0.00166                    440483.43
3762865.13        0.00207
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         440533.43    3762865.13        0.00246                      440583.43
3762865.13        0.00277
         440633.43    3762865.13        0.00297                      440683.43
3762865.13        0.00306
         440733.43    3762865.13        0.00307                      440783.43
3762865.13        0.00302
         440833.43    3762865.13        0.00296                      440883.43
3762865.13        0.00287
         440933.43    3762865.13        0.00278                      440983.43
3762865.13        0.00269
         441118.27    3762686.02        0.00416                      441168.27
3762686.02        0.00380
         441118.27    3762736.02        0.00362                      441168.27
3762736.02        0.00336
         441118.27    3762786.02        0.00312                      441168.27
3762786.02        0.00293
         441118.27    3762836.02        0.00266                      441168.27
3762836.02        0.00253
         440411.67    3762093.41        0.00580                      440461.67
3762093.41        0.00608
         440511.67    3762093.41        0.00629                      440561.67
3762093.41        0.00638
         440611.67    3762093.41        0.00634                      440411.67
3762143.41        0.00944
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:56:46

                                   PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN    ***
                                   INCLUDING SOURCE(S):     PAREA4      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         440461.67    3762143.41        0.00990                      440511.67
3762143.41        0.01007
         440561.67    3762143.41        0.00992                      440611.67
3762143.41        0.00953
         440406.61    3762008.86        0.00307                      440456.61
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3762008.86        0.00318
         440506.61    3762008.86        0.00328                    440556.61
3762008.86        0.00337
         440606.61    3762008.86        0.00343                    440656.61
3762008.86        0.00346
         440706.61    3762008.86        0.00346                    440756.61
3762008.86        0.00342
         440806.61    3762008.86        0.00336                    440856.61
3762008.86        0.00327
         440906.61    3762008.86        0.00316                    440956.61
3762008.86        0.00303
         441006.61    3762008.86        0.00289                    441056.61
3762008.86        0.00276
         441106.61    3762008.86        0.00262                    441156.61
3762008.86        0.00248
         440406.61    3762058.86        0.00435                    440456.61
3762058.86        0.00454
         440506.61    3762058.86        0.00471                    440556.61
3762058.86        0.00482
         440606.61    3762058.86        0.00487                    440656.61
3762058.86        0.00485
         440706.61    3762058.86        0.00476                    440756.61
3762058.86        0.00463
         440806.61    3762058.86        0.00446                    440856.61
3762058.86        0.00425
         440906.61    3762058.86        0.00403                    440956.61
3762058.86        0.00380
         441006.61    3762058.86        0.00357                    441056.61
3762058.86        0.00335
         441106.61    3762058.86        0.00314                    441156.61
3762058.86        0.00294
         440191.38    3762138.44        0.00836                    440241.38
3762138.44        0.00853
         440291.38    3762138.44        0.00831                    440341.38
3762138.44        0.00834
         440191.38    3762188.44        0.01311                    440241.38
3762188.44        0.01421
         440291.38    3762188.44        0.01438                    440341.38
3762188.44        0.01482
         440191.38    3762238.44        0.02261                    440241.38
3762238.44        0.02728
         440291.38    3762238.44        0.03035                    440341.38
3762238.44        0.03244
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:56:46

                                  PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	2.80561	439943.36	3761716.33	3.89736
439170.17	3763092.51	1.30174	439220.17	3763092.51	1.34248
439270.17	3763092.51	1.41546	439320.17	3763092.51	1.47129
439370.17	3763092.51	1.54869	439420.17	3763092.51	1.64543
439470.17	3763092.51	1.77836	439520.17	3763092.51	1.87932
439570.17	3763092.51	1.96813	439620.17	3763092.51	2.02763
439670.17	3763092.51	2.07672	439720.17	3763092.51	2.14250
439770.17	3763092.51	2.23483	439820.17	3763092.51	2.32025
439870.17	3763092.51	2.40067	439170.17	3763142.51	1.21633
439220.17	3763142.51	1.25604	439270.17	3763142.51	1.33232
439320.17	3763142.51	1.37675	439370.17	3763142.51	1.44676
439420.17	3763142.51	1.54615	439470.17	3763142.51	1.60002
439520.17	3763142.51	1.67287	439570.17	3763142.51	1.77413
439620.17	3763142.51	1.85133	439670.17	3763142.51	1.88883
439720.17	3763142.51	1.95419	439770.17	3763142.51	2.02206

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         439820.17    3763142.51        2.08218                    439870.17
3763142.51        2.14022
         439170.17    3763192.51        1.14148                    439220.17
3763192.51        1.18988
         439270.17    3763192.51        1.25245                    439320.17
3763192.51        1.29723
         439370.17    3763192.51        1.36162                    439420.17
3763192.51        1.43972
         439470.17    3763192.51        1.49372                    439520.17
3763192.51        1.55985
         439570.17    3763192.51        1.63128                    439620.17
3763192.51        1.70590
         439670.17    3763192.51        1.72756                    439720.17
3763192.51        1.76089
         439770.17    3763192.51        1.80687                    439820.17
3763192.51        1.86163
         439870.17    3763192.51        1.91447                    439170.17
3763242.51        1.07276
         439220.17    3763242.51        1.11810                    439270.17
3763242.51        1.17268
         439320.17    3763242.51        1.22166                    439370.17
3763242.51        1.27669
         439420.17    3763242.51        1.33335                    439470.17
3763242.51        1.37867
         439520.17    3763242.51        1.43550                    439570.17
3763242.51        1.49602
         439620.17    3763242.51        1.55714                    439670.17
3763242.51        1.59272
         439720.17    3763242.51        1.61547                    439770.17
3763242.51        1.64763
         439820.17    3763242.51        1.68149                    439870.17
3763242.51        1.72115
         439170.17    3763292.51        1.01043                    439220.17
3763292.51        1.03881
         439270.17    3763292.51        1.08243                    439320.17
3763292.51        1.13395
         439370.17    3763292.51        1.19479                    439420.17
3763292.51        1.22952
         439470.17    3763292.51        1.26845                    439520.17
3763292.51        1.30906
         439570.17    3763292.51        1.37536                    439620.17
3763292.51        1.41831
         439670.17    3763292.51        1.45889                    439720.17
3763292.51        1.47919
         439770.17    3763292.51        1.49032                    439820.17
3763292.51        1.52164
         439870.17    3763292.51        1.55973                    439170.17
3763342.51        0.95276
         439220.17    3763342.51        0.98056                    439270.17
3763342.51        1.02890
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                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

```
3763392.51        1.25561
         439770.17    3763392.51        1.26137                   439820.17
3763392.51        1.27748
         439870.17    3763392.51        1.29821                   439170.17
3763442.51        0.84966
         439220.17    3763442.51        0.87588                   439270.17
3763442.51        0.91582
         439320.17    3763442.51        0.94534                   439370.17
3763442.51        0.97212
         439420.17    3763442.51        1.00054                   439470.17
3763442.51        1.02372
         439520.17    3763442.51        1.06078                   439570.17
3763442.51        1.08899
         439620.17    3763442.51        1.12070                   439670.17
3763442.51        1.13862
         439720.17    3763442.51        1.15409                   439770.17
3763442.51        1.16265
         439820.17    3763442.51        1.17684                   439870.17
3763442.51        1.19645
         439203.20    3762911.16        1.67282                   439253.20
3762911.16        1.78167
         439303.20    3762911.16        1.90144                   439353.20
3762911.16        2.03435
         439403.20    3762911.16        2.17950                   439453.20
3762911.16        2.33913
         439503.20    3762911.16        2.51601                   439553.20
3762911.16        2.70981
         439203.20    3762961.16        1.61700                   439253.20
3762961.16        1.71503
         439303.20    3762961.16        1.81131                   439353.20
3762961.16        1.94163
         439403.20    3762961.16        2.08074                   439453.20
3762961.16        2.21597
         439503.20    3762961.16        2.38214                   439553.20
3762961.16        2.54817
         439203.20    3763011.16        1.51065                   439253.20
3763011.16        1.58417
         439303.20    3763011.16        1.65515                   439353.20
3763011.16        1.74050
         439403.20    3763011.16        1.96868                   439453.20
3763011.16        2.07160
         439503.20    3763011.16        2.23507                   439553.20
3763011.16        2.33414
         439203.20    3763061.16        1.40418                   439253.20
3763061.16        1.43541
         439303.20    3763061.16        1.50728                   439353.20
3763061.16        1.57803
         439403.20    3763061.16        1.68435                   439453.20
3763061.16        1.80743
         439503.20    3763061.16        1.96823                   439553.20
3763061.16        2.03216
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         439196.01    3762392.48        2.06372                      439246.01
3762392.48        2.23516
         439296.01    3762392.48        2.43039                      439346.01
3762392.48        2.65458
         439396.01    3762392.48        2.91380                      439446.01
3762392.48        3.21529
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      21:56:46

                                   PAGE  38
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         439496.01    3762392.48        3.57289                      439546.01
3762392.48        4.00068
         439196.01    3762442.48        2.04835                      439246.01
3762442.48        2.21746
         439296.01    3762442.48        2.41129                      439346.01
3762442.48        2.63278
         439396.01    3762442.48        2.88907                      439446.01
3762442.48        3.18834
         439496.01    3762442.48        3.54033                      439546.01
3762442.48        3.95927
         439196.01    3762492.48        2.02528                      439246.01
3762492.48        2.19064
         439296.01    3762492.48        2.37987                      439346.01
3762492.48        2.59673
         439396.01    3762492.48        2.84632                      439446.01
3762492.48        3.13676
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         439496.01    3762492.48        3.47960                    439546.01
3762492.48        3.88563
         439196.01    3762542.48        1.99584                    439246.01
3762542.48        2.15632
         439296.01    3762542.48        2.33952                    439346.01
3762542.48        2.54854
         439396.01    3762542.48        2.78977                    439446.01
3762542.48        3.06921
         439496.01    3762542.48        3.39735                    439546.01
3762542.48        3.78346
         439196.01    3762592.48        1.96093                    439246.01
3762592.48        2.11656
         439296.01    3762592.48        2.29257                    439346.01
3762592.48        2.49285
         439396.01    3762592.48        2.72270                    439446.01
3762592.48        2.98864
         439496.01    3762592.48        3.29866                    439546.01
3762592.48        3.66145
         439196.01    3762642.48        1.92148                    439246.01
3762642.48        2.07059
         439296.01    3762642.48        2.23878                    439346.01
3762642.48        2.42920
         439396.01    3762642.48        2.64735                    439446.01
3762642.48        2.89791
         439496.01    3762642.48        3.18747                    439546.01
3762642.48        3.52423
         439196.01    3762692.48        1.87815                    439246.01
3762692.48        2.02031
         439296.01    3762692.48        2.18001                    439346.01
3762692.48        2.36059
         439396.01    3762692.48        2.56549                    439446.01
3762692.48        2.79917
         439496.01    3762692.48        3.06680                    439546.01
3762692.48        3.37583
         439196.01    3762742.48        1.83161                    439246.01
3762742.48        1.96658
         439296.01    3762742.48        2.11715                    439346.01
3762742.48        2.28658
         439396.01    3762742.48        2.47759                    439446.01
3762742.48        2.69380
         439496.01    3762742.48        2.93879                    439546.01
3762742.48        3.21962
         439196.01    3762792.48        1.78240                    439246.01
3762792.48        1.90995
         439296.01    3762792.48        2.05090                    439346.01
3762792.48        2.20848
         439396.01    3762792.48        2.38509                    439446.01
3762792.48        2.58383
         439496.01    3762792.48        2.80652                    439546.01
3762792.48        3.05920
         439196.01    3762842.48        1.73103                    439246.01
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3762842.48 1.85059
 439296.01 3762842.48 1.98222 439346.01
3762842.48 2.12821
 439396.01 3762842.48 2.29034 439446.01
3762842.48 2.47130
 439496.01 3762842.48 2.67227 439546.01
3762842.48 2.89799
 439573.31 3762470.54 4.17898 439623.31
3762470.54 4.73264
 439673.31 3762470.54 5.41216 439723.31
3762470.54 6.26035
 439773.31 3762470.54 7.34283 439823.31
3762470.54 8.75407

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	10.65510	439573.31	3762520.54	4.07733
439623.31	3762520.54	4.60223	439673.31	3762520.54	5.24359
439723.31	3762520.54	6.03792	439773.31	3762520.54	7.03888
439823.31	3762520.54	8.32466	439873.31	3762520.54	10.02425
439573.31	3762570.54	3.94930	439623.31		

```
3762570.54        4.43954
         439673.31    3762570.54        5.03200                    439723.31
3762570.54        5.75735
         439773.31    3762570.54        6.65866                    439823.31
3762570.54        7.79650
         439873.31    3762570.54        9.25611                    439573.31
3762620.54        3.80160
         439623.31    3762620.54        4.25217                    439673.31
3762620.54        4.79057
         439723.31    3762620.54        5.44019                    439773.31
3762620.54        6.23372
         439823.31    3762620.54        7.21214                    439873.31
3762620.54        8.42679
         439573.31    3762670.54        3.63956                    439623.31
3762670.54        4.04683
         439673.31    3762670.54        4.52887                    439723.31
3762670.54        5.10107
         439773.31    3762670.54        5.78394                    439823.31
3762670.54        6.60632
         439873.31    3762670.54        7.59764                    439152.35
3761448.92        1.31135
         439202.35    3761448.92        1.36693                    439252.35
3761448.92        1.42770
         439302.35    3761448.92        1.49069                    439352.35
3761448.92        1.55617
         439402.35    3761448.92        1.62369                    439452.35
3761448.92        1.69262
         439502.35    3761448.92        1.76548                    439552.35
3761448.92        1.83707
         439152.35    3761498.92        1.35906                    439202.35
3761498.92        1.42283
         439252.35    3761498.92        1.49219                    439302.35
3761498.92        1.55933
         439352.35    3761498.92        1.63036                    439402.35
3761498.92        1.70454
         439452.35    3761498.92        1.78115                    439502.35
3761498.92        1.86425
         439552.35    3761498.92        1.94701                    439152.35
3761548.92        1.40693
         439202.35    3761548.92        1.47600                    439252.35
3761548.92        1.55058
         439302.35    3761548.92        1.62507                    439352.35
3761548.92        1.70267
         439402.35    3761548.92        1.78748                    439452.35
3761548.92        1.87520
         439502.35    3761548.92        1.96677                    439552.35
3761548.92        2.06286
         439152.35    3761598.92        1.45467                    439202.35
3761598.92        1.52842
         439252.35    3761598.92        1.60925                    439302.35
3761598.92        1.69386
```

```
         439352.35    3761598.92        1.78006                      439402.35
3761598.92        1.87574
         439452.35    3761598.92        1.97638                      439502.35
3761598.92        2.07844
         439552.35    3761598.92        2.18915                      439152.35
3761648.92        1.50139
         439202.35    3761648.92        1.58229                      439252.35
3761648.92        1.67060
         439302.35    3761648.92        1.76448                      439352.35
3761648.92        1.86233
         439402.35    3761648.92        1.96899                      439452.35
3761648.92        2.08099
         439502.35    3761648.92        2.20090                      439552.35
3761648.92        2.32635
         439152.35    3761698.92        1.54804                      439202.35
3761698.92        1.63483
         439252.35    3761698.92        1.72834                      439302.35
3761698.92        1.83193
         439352.35    3761698.92        1.94384                      439402.35
3761698.92        2.06488
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         439452.35    3761698.92        2.18626                      439502.35
3761698.92        2.32462
```

```
         439552.35    3761698.92        2.47009                    439152.35
3761748.92        1.59296
         439202.35    3761748.92        1.68750                    439252.35
3761748.92        1.78696
         439302.35    3761748.92        1.90027                    439352.35
3761748.92        2.02176
         439402.35    3761748.92        2.15400                    439452.35
3761748.92        2.29364
         439502.35    3761748.92        2.44268                    439552.35
3761748.92        2.61119
         439152.35    3761798.92        1.63738                    439202.35
3761798.92        1.73970
         439252.35    3761798.92        1.84892                    439302.35
3761798.92        1.97229
         439352.35    3761798.92        2.10111                    439402.35
3761798.92        2.24501
         439452.35    3761798.92        2.40604                    439502.35
3761798.92        2.57058
         439552.35    3761798.92        2.76285                    439152.35
3761848.92        1.68106
         439202.35    3761848.92        1.78954                    439252.35
3761848.92        1.90579
         439302.35    3761848.92        2.03706                    439352.35
3761848.92        2.17720
         439402.35    3761848.92        2.34060                    439452.35
3761848.92        2.51518
         439502.35    3761848.92        2.69927                    439552.35
3761848.92        2.91717
         439152.35    3761898.92        1.72415                    439202.35
3761898.92        1.83819
         439252.35    3761898.92        1.96199                    439302.35
3761898.92        2.10594
         439352.35    3761898.92        2.26021                    439402.35
3761898.92        2.43198
         439452.35    3761898.92        2.62984                    439502.35
3761898.92        2.84392
         439552.35    3761898.92        3.08277                    439152.35
3761948.92        1.76436
         439202.35    3761948.92        1.88425                    439252.35
3761948.92        2.01525
         439302.35    3761948.92        2.16964                    439352.35
3761948.92        2.33772
         439402.35    3761948.92        2.52219                    439452.35
3761948.92        2.73853
         439502.35    3761948.92        2.97840                    439552.35
3761948.92        3.24723
         439152.35    3761998.92        1.80205                    439202.35
3761998.92        1.92708
         439252.35    3761998.92        2.06533                    439302.35
3761998.92        2.22935
         439352.35    3761998.92        2.41124                    439402.35
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3761998.92        2.60851
         439452.35    3761998.92        2.83801                        439502.35
3761998.92        3.09840
         439552.35    3761998.92        3.39709                        439152.35
3762048.92        1.83671
         439202.35    3762048.92        1.97067                        439252.35
3762048.92        2.12005
         439302.35    3762048.92        2.28836                        439352.35
3762048.92        2.47801
         439402.35    3762048.92        2.69111                        439452.35
3762048.92        2.93785
         439502.35    3762048.92        3.21996                        439552.35
3762048.92        3.54445
         439616.61    3761420.65        1.86426                        439666.61
3761420.65        1.93474
         439716.61    3761420.65        2.00484                        439766.61
3761420.65        2.07471
         439816.61    3761420.65        2.14149                        439866.61
3761420.65        2.21046
         439616.61    3761470.65        1.98238                        439666.61
3761470.65        2.06180
         439716.61    3761470.65        2.14235                        439766.61
3761470.65        2.22296
         439816.61    3761470.65        2.30074                        439866.61
3761470.65        2.38250
         439616.61    3761520.65        2.11024                        439666.61
3761520.65        2.20226
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:56:46

                                   PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                                ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **
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X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	2.29556	439766.61	3761520.65	2.39141
439816.61	3761520.65	2.48338	439866.61	3761520.65	2.57789
439616.61	3761570.65	2.25097	439666.61	3761570.65	2.35777
439716.61	3761570.65	2.46704	439766.61	3761570.65	2.57943
439816.61	3761570.65	2.69005	439866.61	3761570.65	2.79839
440451.14	3762893.83	5.56711	440501.14	3762893.83	5.54073
440551.14	3762893.83	5.53032	440601.14	3762893.83	5.42014
440651.14	3762893.83	5.36447	440701.14	3762893.83	5.32702
440751.14	3762893.83	5.32132	440801.14	3762893.83	5.26698
440851.14	3762893.83	5.22044	440451.14	3762943.83	4.61126
440501.14	3762943.83	4.52266	440551.14	3762943.83	4.54544
440601.14	3762943.83	4.45232	440651.14	3762943.83	4.47033
440701.14	3762943.83	4.46796	440751.14	3762943.83	4.50764
440801.14	3762943.83	4.44848	440851.14	3762943.83	4.39886
441116.67	3763135.31	2.55024	441166.67	3763135.31	2.54743
441116.67	3763185.31	2.26956	441166.67	3763185.31	2.27710
441116.67	3763235.31	2.03162	441166.67	3763235.31	2.04235
441116.67	3763285.31	1.81473	441166.67	3763285.31	1.83458
441116.67	3763335.31	1.63185	441166.67	3763335.31	1.64951
441116.67	3763385.31	1.47596	441166.67	3763385.31	1.48715
441116.67	3763435.31	1.33838	441166.67	3763435.31	1.35173
440433.43	3762815.13	8.36473	440483.43	3762815.13	8.20746
440533.43	3762815.13	8.10012	440583.43	3762815.13	7.82755

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         440633.43    3762815.13        7.67045                       440683.43
3762815.13        7.47306
         440733.43    3762815.13        7.22857                       440783.43
3762815.13        7.00412
         440833.43    3762815.13        6.72253                       440883.43
3762815.13        6.43934
         440933.43    3762815.13        6.12756                       440983.43
3762815.13        5.80850
         440433.43    3762865.13        6.40025                       440483.43
3762865.13        6.42462
         440533.43    3762865.13        6.37395                       440583.43
3762865.13        6.25674
         440633.43    3762865.13        6.14439                       440683.43
3762865.13        6.06997
         440733.43    3762865.13        5.96762                       440783.43
3762865.13        5.87788
         440833.43    3762865.13        5.76146                       440883.43
3762865.13        5.59783
         440933.43    3762865.13        5.39781                       440983.43
3762865.13        5.17890
         441118.27    3762686.02        5.98059                       441168.27
3762686.02        5.52481
         441118.27    3762736.02        5.61221                       441168.27
3762736.02        5.22353
         441118.27    3762786.02        5.21649                       441168.27
3762786.02        4.89189
         441118.27    3762836.02        4.80297                       441168.27
3762836.02        4.54183
         440411.67    3762093.41       15.39004                       440461.67
3762093.41       13.84303
         440511.67    3762093.41       12.44650                       440561.67
3762093.41       11.21783
         440611.67    3762093.41       10.15565                       440411.67
3762143.41       19.96144
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:56:46

                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                  *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                  INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
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, L0013598   , L0013599   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	17.53496	440511.67	3762143.41	15.48645
440561.67	3762143.41	13.73629	440611.67	3762143.41	12.29089
440406.61	3762008.86	10.71133	440456.61	3762008.86	9.94550
440506.61	3762008.86	9.16104	440556.61	3762008.86	8.41365
440606.61	3762008.86	7.74170	440656.61	3762008.86	7.14725
440706.61	3762008.86	6.62577	440756.61	3762008.86	6.16489
440806.61	3762008.86	5.73426	440856.61	3762008.86	5.36666
440906.61	3762008.86	5.04153	440956.61	3762008.86	4.73067
441006.61	3762008.86	4.44725	441056.61	3762008.86	4.18100
441106.61	3762008.86	3.94200	441156.61	3762008.86	3.72284
440406.61	3762058.86	13.23117	440456.61	3762058.86	12.07381
440506.61	3762058.86	10.96893	440556.61	3762058.86	9.96902
440606.61	3762058.86	9.08848	440656.61	3762058.86	8.33166
440706.61	3762058.86	7.67859	440756.61	3762058.86	7.09503
440806.61	3762058.86	6.55809	440856.61	3762058.86	6.09331
440906.61	3762058.86	5.67786	440956.61	3762058.86	5.29375
441006.61	3762058.86	4.94358	441056.61	3762058.86	4.62569
441106.61	3762058.86	4.33603	441156.61	3762058.86	4.07230
440191.38	3762138.44	22.79170	440241.38	3762138.44	24.26973
440291.38	3762138.44	24.18992	440341.38		

3762138.44   22.51711
         440191.38   3762188.44   32.46159   440241.38
3762188.44   35.41290
         440291.38   3762188.44   35.59221   440341.38
3762188.44   32.19081
         440191.38   3762238.44   49.84410   440241.38
3762238.44   58.76580
         440291.38   3762238.44   58.91022   440341.38
3762238.44   49.81335

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440407.86   3761497.84   21.27145 (15122901)   439943.36
3761716.33   28.31350 (16092523)
        439170.17   3763092.51   17.39101 (15072001)   439220.17
3763092.51   18.77305 (15091002)
        439270.17   3763092.51   19.57275 (16102806)   439320.17
3763092.51   21.06626 (16102806)
        439370.17   3763092.51   22.49432 (15101220)   439420.17
3763092.51   22.68846 (14030901)
        439470.17   3763092.51   23.25582 (13101421)   439520.17
3763092.51   24.41569 (16102418)
        439570.17   3763092.51   25.40402 (15102306)   439620.17
3763092.51   28.24030 (15070104)
        439670.17   3763092.51   30.75481 (14010617)   439720.17

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3763092.51       32.69378  (15031521)
        439770.17   3763092.51       34.29033  (15090205)                439820.17
3763092.51       35.83209  (16102019)
        439870.17   3763092.51       38.82080  (14091524)                439170.17
3763142.51       17.44419  (15010620)
        439220.17   3763142.51       18.96865  (16102806)                439270.17
3763142.51       19.74537  (15101220)
        439320.17   3763142.51       21.46939  (15101220)                439370.17
3763142.51       21.86737  (15101220)
        439420.17   3763142.51       22.28230  (13101421)                439470.17
3763142.51       23.96059  (15102306)
        439520.17   3763142.51       25.23162  (15102306)                439570.17
3763142.51       25.95614  (15070104)
        439620.17   3763142.51       27.51891  (15070104)                439670.17
3763142.51       29.53143  (15031521)
        439720.17   3763142.51       31.52913  (15090205)                439770.17
3763142.51       32.78756  (16102019)
        439820.17   3763142.51       35.21008  (14091524)                439870.17
3763142.51       36.60467  (13090904)
        439170.17   3763192.51       18.06087  (16102806)                439220.17
3763192.51       19.32800  (15101220)
        439270.17   3763192.51       19.82757  (15101220)                439320.17
3763192.51       20.56634  (15101220)
        439370.17   3763192.51       21.32163  (16040804)                439420.17
3763192.51       22.11724  (15102306)
        439470.17   3763192.51       23.39417  (15102306)                439520.17
3763192.51       24.56763  (15070104)
        439570.17   3763192.51       25.73333  (15070104)                439620.17
3763192.51       26.63595  (14010617)
        439670.17   3763192.51       28.95161  (15090205)                439720.17
3763192.51       30.58081  (15100522)
        439770.17   3763192.51       32.55407  (12010219)                439820.17
3763192.51       34.40216  (14091524)
        439870.17   3763192.51       34.89295  (12091522)                439170.17
3763242.51       18.55710  (15101220)
        439220.17   3763242.51       19.17170  (15101220)                439270.17
3763242.51       19.08464  (13102523)
        439320.17   3763242.51       20.11580  (15082702)                439370.17
3763242.51       21.06869  (15082702)
        439420.17   3763242.51       21.77633  (15102306)                439470.17
3763242.51       22.98523  (15070104)
        439520.17   3763242.51       24.17493  (15070104)                439570.17
3763242.51       25.09230  (13111320)
        439620.17   3763242.51       26.15920  (15090205)                439670.17
3763242.51       27.44382  (15100522)
        439720.17   3763242.51       29.36766  (12010219)                439770.17
3763242.51       31.64004  (14091524)
        439820.17   3763242.51       32.69987  (13090904)                439870.17
3763242.51       34.21151  (15100921)
        439170.17   3763292.51       18.47846  (15101220)                439220.17
3763292.51       19.29056  (13102523)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439270.17	3763292.51	20.19594	(15082702)	439320.17	3763292.51	20.77525	(15082702)
439370.17	3763292.51	20.69633	(15102306)	439420.17	3763292.51	21.88726	(16040703)
439470.17	3763292.51	23.28234	(15092402)	439520.17	3763292.51	24.41262	(13111320)
439570.17	3763292.51	24.70704	(15090205)	439620.17	3763292.51	25.67757	(15090205)
439670.17	3763292.51	26.66861	(15031421)	439720.17	3763292.51	28.63518	(12010219)
439770.17	3763292.51	30.70923	(14091524)	439820.17	3763292.51	31.98603	(12091522)
439870.17	3763292.51	33.19738	(15100921)	439170.17	3763342.51	18.23325	(14120303)
439220.17	3763342.51	19.49873	(15082702)	439270.17	3763342.51	19.78692	(15082702)
439320.17	3763342.51	20.15805	(12081704)	439370.17	3763342.51	20.35663	(16040703)
439420.17	3763342.51	21.64012	(15092402)	439470.17	3763342.51	22.74972	(13111320)
439520.17	3763342.51	23.64377	(16072323)	439570.17	3763342.51	24.37823	(15090205)

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        439620.17   3763342.51       24.80967  (15031421)               439670.17
3763342.51       26.22674  (12010219)
        439720.17   3763342.51       27.98730  (14091524)               439770.17
3763342.51       29.63280  (15092601)
        439820.17   3763342.51       31.13478  (15081402)               439870.17
3763342.51       31.88782  (15070102)
        439170.17   3763392.51       18.55099  (15082702)               439220.17
3763392.51       19.34483  (15082702)
        439270.17   3763392.51       19.46004  (12081704)               439320.17
3763392.51       20.27744  (15063003)
        439370.17   3763392.51       20.88780  (15092402)               439420.17
3763392.51       21.78028  (15062224)
        439470.17   3763392.51       22.83028  (16072323)               439520.17
3763392.51       23.17233  (15090205)
        439570.17   3763392.51       23.65258  (15031421)               439620.17
3763392.51       24.20187  (12010219)
        439670.17   3763392.51       25.75573  (14091524)               439720.17
3763392.51       26.79641  (13090904)
        439770.17   3763392.51       28.55992  (12091522)               439820.17
3763392.51       29.91165  (15081402)
        439870.17   3763392.51       30.86458  (15070102)               439170.17
3763442.51       18.49577  (15082702)
        439220.17   3763442.51       19.40035  (12081704)               439270.17
3763442.51       19.18468  (15063003)
        439320.17   3763442.51       20.02064  (15062721)               439370.17
3763442.51       20.50435  (16100302)
        439420.17   3763442.51       21.13886  (16072323)               439470.17
3763442.51       22.22780  (16072323)
        439520.17   3763442.51       22.53627  (16072103)               439570.17
3763442.51       23.45011  (13091323)
        439620.17   3763442.51       24.03273  (12010219)               439670.17
3763442.51       25.20810  (14091524)
        439720.17   3763442.51       26.14477  (15092601)               439770.17
3763442.51       27.81162  (15081402)
        439820.17   3763442.51       28.41873  (16082406)               439870.17
3763442.51       29.60971  (13082824)
        439203.20   3762911.16       15.95740  (15090919)               439253.20
3762911.16       16.71901  (15090919)
        439303.20   3762911.16       17.31866  (15090919)               439353.20
3762911.16       18.25775  (15021103)
        439403.20   3762911.16       19.23882  (16122818)               439453.20
3762911.16       20.33490  (15031221)
        439503.20   3762911.16       22.16950  (15031221)               439553.20
3762911.16       23.57874  (15031221)
        439203.20   3762961.16       15.20141  (15090919)               439253.20
3762961.16       16.03991  (15021103)
        439303.20   3762961.16       17.42272  (16122818)               439353.20
3762961.16       17.80506  (16122818)
        439403.20   3762961.16       18.80042  (15031221)               439453.20
3762961.16       20.49410  (15031221)
        439503.20   3762961.16       21.11872  (15031221)               439553.20
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3762961.16       22.30262  (13101603)
        439203.20   3763011.16       15.90524  (16122818)                439253.20
3763011.16       17.21962  (15072001)
        439303.20   3763011.16       18.86994  (15072001)                439353.20
3763011.16       20.23625  (15031221)
        439403.20   3763011.16       18.98830  (15031221)                439453.20
3763011.16       20.03166  (12020718)
        439503.20   3763011.16       20.71949  (13101603)                439553.20
3763011.16       22.71153  (13101421)
        439203.20   3763061.16       17.20793  (15072001)                439253.20
3763061.16       19.46634  (15072001)
        439303.20   3763061.16       20.55638  (15010620)                439353.20
3763061.16       21.88263  (16102806)
        439403.20   3763061.16       22.97080  (15101220)                439453.20
3763061.16       23.40883  (14030901)
        439503.20   3763061.16       22.87926  (13101421)                439553.20
3763061.16       25.84600  (16102418)
        439196.01   3762392.48       18.27398  (16102417)                439246.01
3762392.48       19.50044  (16102417)
        439296.01   3762392.48       20.86470  (16102417)                439346.01
3762392.48       22.39853  (16102417)
        439396.01   3762392.48       24.12866  (16102417)                439446.01
3762392.48       26.07632  (16102417)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:56:46

                                    PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
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        439196.01   3762742.48       17.33308  (15063019)                439246.01
3762742.48       18.30319  (15063019)
        439296.01   3762742.48       19.22429  (15063019)                439346.01
3762742.48       20.13907  (16122919)
        439396.01   3762742.48       21.66840  (15112017)                439446.01
3762742.48       23.32530  (15112017)
        439496.01   3762742.48       24.87143  (15090919)                439546.01
3762742.48       27.07212  (15090919)
        439196.01   3762792.48       16.47273  (15063019)                439246.01
3762792.48       17.42696  (15112017)
        439296.01   3762792.48       18.67367  (15112017)                439346.01
3762792.48       19.86156  (15112017)
        439396.01   3762792.48       21.09212  (15090919)                439446.01
3762792.48       22.71081  (15090919)
        439496.01   3762792.48       24.10711  (15090919)                439546.01
3762792.48       25.37423  (15021103)
        439196.01   3762842.48       16.29348  (15112017)                439246.01
3762842.48       17.18067  (15112017)
        439296.01   3762842.48       18.19661  (15090919)                439346.01
3762842.48       19.42088  (15090919)
        439396.01   3762842.48       20.48092  (15090919)                439446.01
3762842.48       21.37435  (15021103)
        439496.01   3762842.48       22.65925  (15021103)                439546.01
3762842.48       24.15495  (16122818)
        439573.31   3762470.54       31.80574  (15051306)                439623.31
3762470.54       35.00453  (15051306)
        439673.31   3762470.54       38.74792  (16022406)                439723.31
3762470.54       43.39535  (16022406)
        439773.31   3762470.54       49.24909  (13122517)                439823.31
3762470.54       56.41795  (13122517)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:56:46

                                    PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	65.15839	(13122517)	439573.31	3762520.54	31.28710	(13122517)
439623.31	3762520.54	34.34505	(12112807)	439673.31	3762520.54	38.31590	(15031224)
439723.31	3762520.54	43.14644	(15031224)	439773.31	3762520.54	48.60271	(15031223)
439823.31	3762520.54	56.26825	(15063019)	439873.31	3762520.54	65.39485	(15063019)
439573.31	3762570.54	31.05441	(15031224)	439623.31	3762570.54	34.29443	(15063019)
439673.31	3762570.54	38.48336	(15063019)	439723.31	3762570.54	43.00028	(15063019)
439773.31	3762570.54	47.70027	(15063019)	439823.31	3762570.54	53.18821	(15112017)
439873.31	3762570.54	60.68199	(15090919)	439573.31	3762620.54	31.11321	(15063019)
439623.31	3762620.54	33.75387	(15063019)	439673.31	3762620.54	36.29242	(15063019)
439723.31	3762620.54	40.56929	(15112017)	439773.31	3762620.54	45.14137	(15090919)
439823.31	3762620.54	50.69316	(15090919)	439873.31	3762620.54	55.76273	(15021103)
439573.31	3762670.54	29.45271	(15112017)	439623.31	3762670.54	32.21189	(15112017)
439673.31	3762670.54	35.30041	(15090919)	439723.31	3762670.54	38.81325	(15090919)
439773.31	3762670.54	41.87424	(15021103)	439823.31	3762670.54	46.24971	(16122818)
439873.31	3762670.54	52.98019	(15031221)	439152.35	3761448.92	11.25523	(14042901)
439202.35	3761448.92	11.83913	(14042901)	439252.35	3761448.92	12.27710	(14042901)
439302.35	3761448.92	12.61230	(16020619)	439352.35	3761448.92	13.09058	(16021419)
439402.35	3761448.92	13.49199	(16021419)	439452.35	3761448.92	13.92143	(12010822)
439502.35	3761448.92	14.37528	(14110501)	439552.35	3761448.92	15.01016	(15031301)
439152.35	3761498.92	11.85770	(14043002)	439202.35	3761498.92	12.10462	(14043002)
439252.35	3761498.92	12.79800	(14042901)	439302.35	3761498.92	13.26567	(14042901)
439352.35	3761498.92	13.60331	(16020619)	439402.35			

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3761498.92       14.11775  (16021419)
        439452.35   3761498.92       14.52305  (16021419)                439502.35
3761498.92       15.10376  (12010822)
        439552.35   3761498.92       15.60304  (14110501)                439152.35
3761548.92       12.22330  (13101522)
        439202.35   3761548.92       12.71031  (14043002)                439252.35
3761548.92       13.08401  (14043002)
        439302.35   3761548.92       13.63808  (14042901)                439352.35
3761548.92       14.20553  (14042901)
        439402.35   3761548.92       14.64534  (16020619)                439452.35
3761548.92       15.24827  (16021419)
        439502.35   3761548.92       15.73733  (16021419)                439552.35
3761548.92       16.39844  (12010822)
        439152.35   3761598.92       12.60317  (13101522)                439202.35
3761598.92       13.11021  (13101522)
        439252.35   3761598.92       13.63524  (14043002)                439302.35
3761598.92       14.09892  (14043002)
        439352.35   3761598.92       14.61035  (14042901)                439402.35
3761598.92       15.40710  (14042901)
        439452.35   3761598.92       15.93382  (16020619)                439502.35
3761598.92       16.61047  (16021419)
        439552.35   3761598.92       17.20675  (16021419)                439152.35
3761648.92       12.94110  (16101918)
        439202.35   3761648.92       13.40674  (13101522)                439252.35
3761648.92       14.13688  (13101522)
        439302.35   3761648.92       14.69010  (14043002)                439352.35
3761648.92       15.28938  (14043002)
        439402.35   3761648.92       15.87202  (14042901)                439452.35
3761648.92       16.82695  (14042901)
        439502.35   3761648.92       17.44908  (16020619)                439552.35
3761648.92       18.33433  (16021419)
        439152.35   3761698.92       13.44890  (16101918)                439202.35
3761698.92       13.97522  (16101918)
        439252.35   3761698.92       14.30754  (16101918)                439302.35
3761698.92       15.19842  (13101522)
        439352.35   3761698.92       15.92349  (13101522)                439402.35
3761698.92       16.74902  (14043002)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:56:46

                                   PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
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                L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439452.35   3761698.92       17.20062  (14042901)               439502.35
3761698.92       18.47095  (14042901)
        439552.35   3761698.92       19.23641  (16020619)               439152.35
3761748.92       13.48092  (13100622)
        439202.35   3761748.92       14.34018  (16101918)               439252.35
3761748.92       15.05029  (16101918)
        439302.35   3761748.92       15.66514  (16101918)               439352.35
3761748.92       16.38905  (13101522)
        439402.35   3761748.92       17.36421  (13101522)               439452.35
3761748.92       18.18065  (14043002)
        439502.35   3761748.92       18.83826  (14043002)               439552.35
3761748.92       20.27351  (14042901)
        439152.35   3761798.92       14.10824  (16112908)               439202.35
3761798.92       14.68520  (13100622)
        439252.35   3761798.92       15.25613  (16101918)               439302.35
3761798.92       16.35361  (16101918)
        439352.35   3761798.92       17.14996  (16101918)               439402.35
3761798.92       17.72751  (16101918)
        439452.35   3761798.92       19.03124  (13101522)               439502.35
3761798.92       19.88097  (14043002)
        439552.35   3761798.92       21.04950  (14043002)               439152.35
3761848.92       14.64035  (14051322)
        439202.35   3761848.92       15.33491  (14051322)               439252.35
3761848.92       15.91844  (16112908)
        439302.35   3761848.92       16.62481  (13100622)               439352.35
3761848.92       17.49161  (16101918)
        439402.35   3761848.92       18.80853  (16101918)               439452.35
3761848.92       19.75727  (16101918)
        439502.35   3761848.92       20.72925  (13101522)               439552.35
3761848.92       22.18767  (13101522)
        439152.35   3761898.92       14.90321  (15031321)               439202.35
3761898.92       15.62419  (14051322)
        439252.35   3761898.92       16.55047  (14051322)               439302.35
3761898.92       17.51023  (14051322)
        439352.35   3761898.92       18.29621  (16112908)               439402.35
3761898.92       19.15797  (13100622)
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        439452.35   3761898.92       20.65386  (16101918)                439502.35
3761898.92       22.09119  (16101918)
        439552.35   3761898.92       23.12439  (16101918)                439152.35
3761948.92       15.11650  (15071824)
        439202.35   3761948.92       16.03047  (15031321)                439252.35
3761948.92       16.88747  (15031321)
        439302.35   3761948.92       17.84333  (14051322)                439352.35
3761948.92       19.14969  (14051322)
        439402.35   3761948.92       20.24970  (14051322)                439452.35
3761948.92       21.42942  (16112908)
        439502.35   3761948.92       22.63884  (13100622)                439552.35
3761948.92       24.71798  (16101918)
        439152.35   3761998.92       15.55248  (15071824)                439202.35
3761998.92       16.41641  (16092601)
        439252.35   3761998.92       17.22647  (16092601)                439302.35
3761998.92       18.32447  (15031321)
        439352.35   3761998.92       19.65313  (15031321)                439402.35
3761998.92       20.74824  (15031321)
        439452.35   3761998.92       22.39958  (14051322)                439502.35
3761998.92       24.00131  (14051322)
        439552.35   3761998.92       25.50310  (13100622)                439152.35
3762048.92       16.13544  (14051419)
        439202.35   3762048.92       17.04004  (14051419)                439252.35
3762048.92       17.91697  (14051419)
        439302.35   3762048.92       18.89808  (16092601)                439352.35
3762048.92       20.17076  (16092601)
        439402.35   3762048.92       21.35409  (16092601)                439452.35
3762048.92       23.04542  (15031321)
        439502.35   3762048.92       24.76273  (15031321)                439552.35
3762048.92       26.87842  (14051322)
        439616.61   3761420.65       14.96577  (14112323)                439666.61
3761420.65       15.89729  (12110417)
        439716.61   3761420.65       16.80237  (12110417)                439766.61
3761420.65       17.10030  (13101517)
        439816.61   3761420.65       17.21030  (16092523)                439866.61
3761420.65       17.80828  (13101419)
        439616.61   3761470.65       15.96544  (13112508)                439666.61
3761470.65       16.26789  (14022807)
        439716.61   3761470.65       17.56459  (12110417)                439766.61
3761470.65       18.22541  (13101517)
        439816.61   3761470.65       18.25749  (16092523)                439866.61
3761470.65       18.87420  (14100421)
        439616.61   3761520.65       16.84665  (15031301)                439666.61
3761520.65       17.36452  (13112508)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:56:46

                                  PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	18.06441	(12110417)	439766.61	3761520.65	19.44028	(12110417)
439816.61	3761520.65	19.88208	(13101517)	439866.61	3761520.65	20.09831	(16092523)
439616.61	3761570.65	17.59455	(14110501)	439666.61	3761570.65	18.49769	(15031301)
439716.61	3761570.65	18.95217	(13112508)	439766.61	3761570.65	20.39225	(12110417)
439816.61	3761570.65	21.45862	(12110417)	439866.61	3761570.65	21.56985	(13101517)
440451.14	3762893.83	60.70448	(16070206)	440501.14	3762893.83	57.96548	(16012217)
440551.14	3762893.83	53.37238	(14063005)	440601.14	3762893.83	50.48664	(13110717)
440651.14	3762893.83	48.73007	(15061306)	440701.14	3762893.83	46.11103	(16070606)
440751.14	3762893.83	42.70418	(15070406)	440801.14	3762893.83	38.54698	(15070606)
440851.14	3762893.83	32.53446	(13062920)	440451.14	3762943.83	55.68765	(13111318)
440501.14	3762943.83	54.59046	(16101920)	440551.14	3762943.83	50.31430	(14062506)
440601.14	3762943.83	48.85706	(15090821)	440651.14	3762943.83	45.68820	(16052806)
440701.14	3762943.83	43.23747	(15061306)	440751.14	3762943.83	39.90467	(16070606)
440801.14	3762943.83	38.63561	(15070406)	440851.14	3762943.83	36.87560	(15031520)
441116.67	3763135.31	25.83015	(14080123)	441166.67			

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3763135.31       24.37638  (15071801)
        441116.67   3763185.31       25.49101  (15072905)                441166.67
3763185.31       24.01025  (14080123)
        441116.67   3763235.31       25.08804  (15062901)                441166.67
3763235.31       23.57415  (15072905)
        441116.67   3763285.31       25.13411  (15062901)                441166.67
3763285.31       23.58750  (15062901)
        441116.67   3763335.31       24.76794  (15082423)                441166.67
3763335.31       23.62852  (15062901)
        441116.67   3763385.31       24.30578  (12081324)                441166.67
3763385.31       23.59494  (15082423)
        441116.67   3763435.31       23.88327  (13100303)                441166.67
3763435.31       23.02640  (15062124)
        440433.43   3762815.13       61.92272  (16012117)                440483.43
3762815.13       58.84261  (14062506)
        440533.43   3762815.13       53.19857  (16101523)                440583.43
3762815.13       50.41391  (16111017)
        440633.43   3762815.13       47.20279  (12082820)                440683.43
3762815.13       43.29254  (15070606)
        440733.43   3762815.13       40.58244  (13060306)                440783.43
3762815.13       36.98737  (13062920)
        440833.43   3762815.13       35.44149  (16061306)                440883.43
3762815.13       32.49280  (16061306)
        440933.43   3762815.13       28.81539  (13051321)                440983.43
3762815.13       26.24720  (15092020)
        440433.43   3762865.13       63.91733  (16070206)                440483.43
3762865.13       57.85704  (16012217)
        440533.43   3762865.13       52.19273  (15090105)                440583.43
3762865.13       49.19844  (16111017)
        440633.43   3762865.13       46.98973  (15101120)                440683.43
3762865.13       43.34507  (16070606)
        440733.43   3762865.13       41.14968  (15070406)                440783.43
3762865.13       37.50498  (13060306)
        440833.43   3762865.13       33.54660  (13062920)                440883.43
3762865.13       30.46831  (16061306)
        440933.43   3762865.13       27.71402  (16061306)                440983.43
3762865.13       25.36530  (13012217)
        441118.27   3762686.02       23.65235  (12092120)                441168.27
3762686.02       22.18368  (13090620)
        441118.27   3762736.02       23.17322  (15091021)                441168.27
3762736.02       21.63723  (15091021)
        441118.27   3762786.02       22.56065  (15062719)                441168.27
3762786.02       20.93498  (15072203)
        441118.27   3762836.02       21.66409  (13060406)                441168.27
3762836.02       20.53566  (15062719)
        440411.67   3762093.41       86.89139  (15012217)                440461.67
3762093.41       78.33441  (15101302)
        440511.67   3762093.41       70.61755  (13012317)                440561.67
3762093.41       63.16088  (12012417)
        440611.67   3762093.41       57.44699  (12092121)                440411.67
3762143.41      105.49738  (12012517)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	91.61797	(15071919)	440511.67	3762143.41	80.43498	(15091323)
440561.67	3762143.41	71.88603	(12092121)	440611.67	3762143.41	63.70932	(15080521)
440406.61	3762008.86	65.09335	(14011422)	440456.61	3762008.86	62.10437	(15012217)
440506.61	3762008.86	57.85851	(12012517)	440556.61	3762008.86	53.07310	(15071919)
440606.61	3762008.86	49.03783	(13012317)	440656.61	3762008.86	44.80148	(12012417)
440706.61	3762008.86	41.34033	(12012417)	440756.61	3762008.86	38.32402	(15070806)
440806.61	3762008.86	34.86391	(15080521)	440856.61	3762008.86	32.33954	(16083020)
440906.61	3762008.86	30.12871	(16062022)	440956.61	3762008.86	27.90240	(15091122)
441006.61	3762008.86	26.03104	(13051806)	441056.61	3762008.86	24.10279	(13051806)
441106.61	3762008.86	22.48973	(16072722)	441156.61	3762008.86	21.01049	(12080921)
440406.61	3762058.86	76.60730	(14100521)	440456.61	3762058.86	72.24673	(12012517)

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        440506.61   3762058.86       64.95149  (15071919)                440556.61
3762058.86       59.76635  (13012317)
        440606.61   3762058.86       53.99498  (12012417)                440656.61
3762058.86       49.36851  (12092121)
        440706.61   3762058.86       45.14116  (15080521)                440756.61
3762058.86       40.91292  (15091324)
        440806.61   3762058.86       37.53472  (16062022)                440856.61
3762058.86       34.40978  (15091122)
        440906.61   3762058.86       31.74366  (13051806)                440956.61
3762058.86       29.17286  (13051806)
        441006.61   3762058.86       26.94541  (16072722)                441056.61
3762058.86       25.02925  (12081321)
        441106.61   3762058.86       23.36686  (12081321)                441156.61
3762058.86       21.91025  (16061206)
        440191.38   3762138.44      118.46624  (14050102)                440241.38
3762138.44      123.20545  (15060806)
        440291.38   3762138.44      123.92563  (16061406)                440341.38
3762138.44      115.42443  (12020717)
        440191.38   3762188.44      158.81457  (16020317)                440241.38
3762188.44      164.04337  (15060806)
        440291.38   3762188.44      165.67574  (16061922)                440341.38
3762188.44      149.93091  (14100521)
        440191.38   3762238.44      242.22954  (16020317)                440241.38
3762238.44      239.32775  (16092606)
        440291.38   3762238.44      240.04534  (15082821)                440341.38
3762238.44      218.68308  (12012917)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:56:46

                                   PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        440407.86   3761497.84       19.95081  (15102822)              439943.36
3761716.33       26.71074  (14100421)
        439170.17   3763092.51       16.54629  (15072001)              439220.17
3763092.51       17.86030  (15072001)
        439270.17   3763092.51       18.60716  (15010620)              439320.17
3763092.51       20.28865  (16102806)
        439370.17   3763092.51       21.55082  (15101220)              439420.17
3763092.51       22.24428  (14030901)
        439470.17   3763092.51       21.93767  (13101421)              439520.17
3763092.51       23.15696  (16102418)
        439570.17   3763092.51       24.73393  (14030104)              439620.17
3763092.51       27.54096  (15070104)
        439670.17   3763092.51       30.53516  (14010617)              439720.17
3763092.51       33.39275  (15031521)
        439770.17   3763092.51       35.40202  (15090205)              439820.17
3763092.51       37.02792  (12010219)
        439870.17   3763092.51       40.33488  (14091524)              439170.17
3763142.51       16.92584  (15091002)
        439220.17   3763142.51       18.61778  (16102806)              439270.17
3763142.51       18.78527  (15101220)
        439320.17   3763142.51       20.95559  (15101220)              439370.17
3763142.51       21.55544  (15101220)
        439420.17   3763142.51       21.55346  (13101421)              439470.17
3763142.51       23.49118  (15102306)
        439520.17   3763142.51       24.91331  (15102306)              439570.17
3763142.51       25.86627  (15070104)
        439620.17   3763142.51       27.33792  (15070104)              439670.17
3763142.51       30.09340  (13111320)
        439720.17   3763142.51       32.31166  (15090205)              439770.17
3763142.51       33.55125  (16102019)
        439820.17   3763142.51       36.32323  (14091524)              439870.17
3763142.51       37.95204  (13090904)
        439170.17   3763192.51       17.54191  (16102806)              439220.17
3763192.51       18.69340  (15101220)
        439270.17   3763192.51       19.35205  (15101220)              439320.17
3763192.51       20.19964  (15101220)
        439370.17   3763192.51       20.79736  (13101421)              439420.17
3763192.51       21.63142  (15102306)
        439470.17   3763192.51       23.00172  (15102306)              439520.17
3763192.51       24.08492  (15070104)
        439570.17   3763192.51       25.38791  (15070104)              439620.17
3763192.51       26.36202  (14010617)
        439670.17   3763192.51       29.48905  (15090205)              439720.17
3763192.51       31.25992  (15100522)
        439770.17   3763192.51       33.48167  (12010219)              439820.17
3763192.51       35.40580  (14091524)
        439870.17   3763192.51       36.30845  (12091522)              439170.17
3763242.51       18.48192  (15101220)
        439220.17   3763242.51       19.27267  (15101220)              439270.17
3763242.51       19.28004  (15101220)
        439320.17   3763242.51       20.11253  (16040804)              439370.17
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3763242.51       21.24111  (15082702)
        439420.17   3763242.51       21.97812  (15102306)               439470.17
3763242.51       23.19763  (16040703)
        439520.17   3763242.51       24.41526  (15070104)               439570.17
3763242.51       25.44670  (13111320)
        439620.17   3763242.51       26.52112  (15090205)               439670.17
3763242.51       27.91090  (15100522)
        439720.17   3763242.51       30.04517  (12010219)               439770.17
3763242.51       32.39046  (14091524)
        439820.17   3763242.51       33.60020  (13090904)               439870.17
3763242.51       35.43325  (15081402)
        439170.17   3763292.51       18.56559  (15101220)               439220.17
3763292.51       19.31389  (12071302)
        439270.17   3763292.51       20.10924  (15082702)               439320.17
3763292.51       20.87049  (15082702)
        439370.17   3763292.51       20.82480  (15102306)               439420.17
3763292.51       22.02399  (15013007)
        439470.17   3763292.51       23.52187  (15092402)               439520.17
3763292.51       24.62698  (13111320)
        439570.17   3763292.51       24.92656  (15090205)               439620.17
3763292.51       26.07153  (15090205)
        439670.17   3763292.51       27.24261  (15031421)               439720.17
3763292.51       29.26578  (12010219)
        439770.17   3763292.51       31.39662  (13090904)               439820.17
3763292.51       32.99874  (12091522)
        439870.17   3763292.51       34.08385  (15100921)               439170.17
3763342.51       18.19123  (14120303)
        439220.17   3763342.51       19.38255  (15082702)               439270.17
3763342.51       19.83820  (15082702)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
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        439503.20   3762911.16       21.88879  (15031221)                439553.20
3762911.16       23.57278  (15031221)
        439203.20   3762961.16       15.11549  (15090919)                439253.20
3762961.16       15.64011  (15021103)
        439303.20   3762961.16       16.45137  (15021103)                439353.20
3762961.16       17.34149  (16122818)
        439403.20   3762961.16       18.42473  (15031221)                439453.20
3762961.16       19.92924  (15031221)
        439503.20   3762961.16       21.13930  (15031221)                439553.20
3762961.16       21.96527  (13101603)
        439203.20   3763011.16       15.48120  (15021103)                439253.20
3763011.16       16.84873  (15072001)
        439303.20   3763011.16       18.40983  (15072001)                439353.20
3763011.16       19.92304  (15031221)
        439403.20   3763011.16       18.18631  (15031221)                439453.20
3763011.16       19.41237  (15031221)
        439503.20   3763011.16       19.88607  (13101603)                439553.20
3763011.16       21.98939  (15120219)
        439203.20   3763061.16       16.82200  (15072001)                439253.20
3763061.16       18.77285  (15072001)
        439303.20   3763061.16       19.57599  (15010620)                439353.20
3763061.16       21.32410  (16102806)
        439403.20   3763061.16       21.63052  (12020718)                439453.20
3763061.16       22.03230  (15120219)
        439503.20   3763061.16       22.50286  (13101421)                439553.20
3763061.16       24.59527  (16102418)
        439196.01   3762392.48       17.63402  (14020117)                439246.01
3762392.48       18.83756  (14020117)
        439296.01   3762392.48       20.17814  (14020117)                439346.01
3762392.48       21.68704  (14020117)
        439396.01   3762392.48       23.39132  (14020117)                439446.01
3762392.48       25.31373  (14020117)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:56:46

                                    PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                    INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	27.56804	(14020117)	439546.01	3762392.48	30.21475	(14020117)
439196.01	3762442.48	17.73525	(16102417)	439246.01	3762442.48	18.92050	(16102417)
439296.01	3762442.48	20.27324	(16102417)	439346.01	3762442.48	21.76743	(16102417)
439396.01	3762442.48	23.46072	(16102417)	439446.01	3762442.48	25.39721	(16102417)
439496.01	3762442.48	27.60798	(16102417)	439546.01	3762442.48	30.16500	(16102417)
439196.01	3762492.48	17.26834	(16122920)	439246.01	3762492.48	18.40681	(16122920)
439296.01	3762492.48	19.69545	(16122920)	439346.01	3762492.48	21.20899	(15051306)
439396.01	3762492.48	22.91310	(15051306)	439446.01	3762492.48	24.84077	(15051306)
439496.01	3762492.48	27.06628	(15051306)	439546.01	3762492.48	29.60013	(15051306)
439196.01	3762542.48	17.14682	(15051306)	439246.01	3762542.48	18.21775	(15051306)
439296.01	3762542.48	19.47260	(16022406)	439346.01	3762542.48	20.90328	(16022406)
439396.01	3762542.48	22.50533	(16022406)	439446.01	3762542.48	24.44139	(13122517)
439496.01	3762542.48	26.66088	(13122517)	439546.01	3762542.48	29.12017	(13122517)
439196.01	3762592.48	17.00515	(13122517)	439246.01	3762592.48	18.13750	(13122517)
439296.01	3762592.48	19.35525	(13122517)	439346.01	3762592.48	20.69097	(12112807)
439396.01	3762592.48	22.20536	(12112807)	439446.01	3762592.48	24.22946	(15031224)
439496.01	3762592.48	26.48337	(15031224)	439546.01	3762592.48	28.91178	(15031224)
439196.01	3762642.48	16.79656	(15031224)	439246.01	3762642.48	18.01941	(15031224)
439296.01	3762642.48	19.31436	(15031224)	439346.01	3762642.48	20.68156	(15031224)
439396.01	3762642.48	22.23617	(15031223)	439446.01	3762642.48	24.20928	(15063019)
439496.01	3762642.48	26.55262	(15063019)	439546.01	3762642.48	29.01868	(15063019)
439196.01	3762692.48	16.75000	(15031223)	439246.01	3762692.48	17.90297	(15031223)
439296.01	3762692.48	19.29549	(15063019)	439346.01			

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3762692.48       20.82309  (15063019)
        439396.01   3762692.48       22.39718  (15063019)                439446.01
3762692.48       24.00451  (15063019)
        439496.01   3762692.48       25.58919  (15063019)                439546.01
3762692.48       27.43268  (15112017)
        439196.01   3762742.48       16.92003  (15063019)                439246.01
3762742.48       18.00812  (15063019)
        439296.01   3762742.48       19.09466  (15063019)                439346.01
3762742.48       20.15493  (15063019)
        439396.01   3762742.48       21.18170  (16122919)                439446.01
3762742.48       22.95755  (15112017)
        439496.01   3762742.48       24.77153  (15112017)                439546.01
3762742.48       26.76364  (15090919)
        439196.01   3762792.48       16.42702  (15063019)                439246.01
3762792.48       17.13867  (15063019)
        439296.01   3762792.48       18.21614  (15112017)                439346.01
3762792.48       19.55636  (15112017)
        439396.01   3762792.48       20.83969  (15112017)                439446.01
3762792.48       22.38087  (15090919)
        439496.01   3762792.48       24.07287  (15090919)                439546.01
3762792.48       25.54343  (15090919)
        439196.01   3762842.48       15.90819  (15112017)                439246.01
3762842.48       16.91350  (15112017)
        439296.01   3762842.48       17.84550  (15112017)                439346.01
3762842.48       19.08932  (15090919)
        439396.01   3762842.48       20.35544  (15090919)                439446.01
3762842.48       21.44798  (15090919)
        439496.01   3762842.48       22.60571  (15021103)                439546.01
3762842.48       24.11881  (16122818)
        439573.31   3762470.54       31.13921  (15051306)                439623.31
3762470.54       34.53523  (15051306)
        439673.31   3762470.54       38.53404  (15051306)                439723.31
3762470.54       43.28928  (15051306)
        439773.31   3762470.54       49.05294  (15051306)                439823.31
3762470.54       56.07544  (15051306)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:56:46

                                   PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	65.34421	(13122517)	439573.31	3762520.54	30.73382	(13122517)
439623.31	3762520.54	34.02919	(13122517)	439673.31	3762520.54	37.83676	(13122517)
439723.31	3762520.54	42.22777	(12112807)	439773.31	3762520.54	48.22902	(15031224)
439823.31	3762520.54	55.34998	(15031224)	439873.31	3762520.54	65.16779	(15063019)
439573.31	3762570.54	30.54799	(15031224)	439623.31	3762570.54	33.74544	(15031224)
439673.31	3762570.54	37.49097	(15063019)	439723.31	3762570.54	42.61060	(15063019)
439773.31	3762570.54	48.30319	(15063019)	439823.31	3762570.54	54.42480	(15063019)
439873.31	3762570.54	61.85229	(15112017)	439573.31	3762620.54	30.66430	(15063019)
439623.31	3762620.54	33.78898	(15063019)	439673.31	3762620.54	37.02926	(15063019)
439723.31	3762620.54	40.26543	(15112017)	439773.31	3762620.54	45.49134	(15112017)
439823.31	3762620.54	51.55656	(15090919)	439873.31	3762620.54	58.11964	(15090919)
439573.31	3762670.54	29.25105	(15063019)	439623.31	3762670.54	32.00394	(15112017)
439673.31	3762670.54	35.20252	(15112017)	439723.31	3762670.54	39.13526	(15090919)
439773.31	3762670.54	43.08425	(15090919)	439823.31	3762670.54	47.17882	(16122818)
439873.31	3762670.54	54.14963	(15031221)	439152.35	3761448.92	10.90682	(14042901)
439202.35	3761448.92	11.28931	(14042901)	439252.35	3761448.92	11.57031	(16020619)
439302.35	3761448.92	11.95827	(16021419)	439352.35	3761448.92	12.41498	(16021419)
439402.35	3761448.92	12.71685	(12010822)	439452.35	3761448.92	13.14967	(12010822)
439502.35	3761448.92	13.67578	(15031301)	439552.35	3761448.92	14.23878	(15031301)
439152.35	3761498.92	11.17056	(14043002)	439202.35	3761498.92	11.65534	(14042901)
439252.35	3761498.92	12.23179	(14042901)	439302.35	3761498.92	12.48290	(16020619)

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        439352.35   3761498.92       12.90285  (16021419)                439402.35
3761498.92       13.37807  (16021419)
        439452.35   3761498.92       13.72101  (12010822)                439502.35
3761498.92       14.22167  (12010822)
        439552.35   3761498.92       14.89180  (15031301)                439152.35
3761548.92       11.66568  (14043002)
        439202.35   3761548.92       12.01202  (14043002)                439252.35
3761548.92       12.49525  (14042901)
        439302.35   3761548.92       13.06316  (14042901)                439352.35
3761548.92       13.36424  (16020619)
        439402.35   3761548.92       13.87701  (16021419)                439452.35
3761548.92       14.43506  (16021419)
        439502.35   3761548.92       14.90182  (12010822)                439552.35
3761548.92       15.47769  (14110501)
        439152.35   3761598.92       12.05476  (13101522)                439202.35
3761598.92       12.45433  (14043002)
        439252.35   3761598.92       12.93510  (14043002)                439302.35
3761598.92       13.35676  (14042901)
        439352.35   3761598.92       14.03169  (14042901)                439402.35
3761598.92       14.51059  (14042901)
        439452.35   3761598.92       15.10464  (16021419)                439502.35
3761598.92       15.70768  (16021419)
        439552.35   3761598.92       16.32760  (12010822)                439152.35
3761648.92       12.27654  (13101522)
        439202.35   3761648.92       12.90426  (13101522)                439252.35
3761648.92       13.39177  (13101522)
        439302.35   3761648.92       14.00050  (14043002)                439352.35
3761648.92       14.36962  (14042901)
        439402.35   3761648.92       15.29524  (14042901)                439452.35
3761648.92       15.87174  (14042901)
        439502.35   3761648.92       16.55502  (16021419)                439552.35
3761648.92       17.31849  (16021419)
        439152.35   3761698.92       12.81100  (16101918)                439202.35
3761698.92       13.13148  (16101918)
        439252.35   3761698.92       13.81683  (13101522)                439302.35
3761698.92       14.48280  (13101522)
        439352.35   3761698.92       15.17132  (14043002)                439402.35
3761698.92       15.74598  (14043002)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:56:46

                                   PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
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, L0013638   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	16.63955	(14042901)	439502.35	3761698.92	17.45479	(14042901)
439552.35	3761698.92	18.27175	(16021419)	439152.35	3761748.92	13.10523	(16101918)
439202.35	3761748.92	13.78085	(16101918)	439252.35	3761748.92	14.24452	(16101918)
439302.35	3761748.92	14.86213	(13101522)	439352.35	3761748.92	15.73194	(13101522)
439402.35	3761748.92	16.48300	(14043002)	439452.35	3761748.92	17.16787	(14043002)
439502.35	3761748.92	18.14883	(14042901)	439552.35	3761748.92	19.19916	(14042901)
439152.35	3761798.92	13.36944	(13100622)	439202.35	3761798.92	13.94597	(16101918)
439252.35	3761798.92	14.82042	(16101918)	439302.35	3761798.92	15.62569	(16101918)
439352.35	3761798.92	16.11039	(16101918)	439402.35	3761798.92	17.12160	(13101522)
439452.35	3761798.92	18.04269	(13101522)	439502.35	3761798.92	18.88121	(14043002)
439552.35	3761798.92	20.11277	(14042901)	439152.35	3761848.92	13.94302	(14051322)
439202.35	3761848.92	14.50625	(16112908)	439252.35	3761848.92	15.06256	(13100622)
439302.35	3761848.92	15.91806	(16101918)	439352.35	3761848.92	16.90189	(16101918)
439402.35	3761848.92	17.84007	(16101918)	439452.35	3761848.92	18.75618	(13101522)
439502.35	3761848.92	19.81742	(13101522)	439552.35	3761848.92	21.09335	(14043002)
439152.35	3761898.92	14.27811	(14051322)	439202.35	3761898.92	15.08982	(14051322)
439252.35	3761898.92	15.76568	(14051322)	439302.35	3761898.92	16.55250	(16112908)
439352.35	3761898.92	17.28933	(13100622)	439402.35	3761898.92	18.49593	(16101918)
439452.35	3761898.92	19.83610	(16101918)	439502.35	3761898.92	20.76397	(16101918)
439552.35	3761898.92	22.34003	(13101522)	439152.35			

3761948.92 14.62254 (15031321)
439202.35 3761948.92 15.36120 (15031321) 439252.35
3761948.92 16.11037 (14051322)
439302.35 3761948.92 17.27818 (14051322) 439352.35
3761948.92 18.25789 (14051322)
439402.35 3761948.92 19.12594 (16112908) 439452.35
3761948.92 20.22489 (16101918)
439502.35 3761948.92 22.03922 (16101918) 439552.35
3761948.92 23.54430 (16101918)
439152.35 3761998.92 14.94598 (16092601) 439202.35
3761998.92 15.61988 (16092601)
439252.35 3761998.92 16.52176 (15031321) 439302.35
3761998.92 17.65710 (15031321)
439352.35 3761998.92 18.72997 (14051322) 439402.35
3761998.92 20.05447 (14051322)
439452.35 3761998.92 21.37529 (14051322) 439502.35
3761998.92 22.63606 (13100622)
439552.35 3761998.92 24.30642 (16101918) 439152.35
3762048.92 15.39957 (14051419)
439202.35 3762048.92 16.12065 (14051419) 439252.35
3762048.92 17.10036 (16092601)
439302.35 3762048.92 18.13794 (16092601) 439352.35
3762048.92 19.22181 (15031321)
439402.35 3762048.92 20.62160 (15031321) 439452.35
3762048.92 22.01355 (15031321)
439502.35 3762048.92 23.88514 (14051322) 439552.35
3762048.92 25.69050 (14051322)
439616.61 3761420.65 14.23626 (12110417) 439666.61
3761420.65 15.33617 (12110417)
439716.61 3761420.65 15.83924 (13101517) 439766.61
3761420.65 15.88149 (13101517)
439816.61 3761420.65 16.30750 (14100421) 439866.61
3761420.65 16.87984 (13101419)
439616.61 3761470.65 14.99155 (13112508) 439666.61
3761470.65 15.80239 (12110417)
439716.61 3761470.65 16.76292 (12110417) 439766.61
3761470.65 17.13725 (13101517)
439816.61 3761470.65 17.26856 (16092523) 439866.61
3761470.65 17.91451 (13101419)
439616.61 3761520.65 15.94217 (13112508) 439666.61
3761520.65 16.23357 (14022807)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***

INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	17.55545	(12110417)	439766.61	3761520.65	18.33488	(12110417)
439816.61	3761520.65	18.45505	(13101517)	439866.61	3761520.65	19.05886	(14100421)
439616.61	3761570.65	16.82916	(15031301)	439666.61	3761570.65	17.46702	(13112508)
439716.61	3761570.65	18.10703	(12110417)	439766.61	3761570.65	19.58062	(12110417)
439816.61	3761570.65	20.15940	(13101517)	439866.61	3761570.65	20.36009	(16092523)
440451.14	3762893.83	61.95660	(16101920)	440501.14	3762893.83	56.81802	(14062506)
440551.14	3762893.83	51.72074	(13110717)	440601.14	3762893.83	49.50146	(14090206)
440651.14	3762893.83	46.53312	(13060506)	440701.14	3762893.83	43.70361	(15070406)
440751.14	3762893.83	39.09922	(15070606)	440801.14	3762893.83	36.01308	(15100419)
440851.14	3762893.83	31.84997	(15073021)	440451.14	3762943.83	58.32585	(16070206)
440501.14	3762943.83	55.39035	(16012217)	440551.14	3762943.83	50.23256	(14063005)
440601.14	3762943.83	48.80353	(15090821)	440651.14	3762943.83	44.96651	(15061306)
440701.14	3762943.83	42.11630	(16070606)	440751.14	3762943.83	38.06046	(15070406)
440801.14	3762943.83	36.39813	(15031520)	440851.14	3762943.83	34.70964	(16080301)
441116.67	3763135.31	25.24921	(15071801)	441166.67	3763135.31	23.93786	(15082522)
441116.67	3763185.31	24.97171	(16071302)	441166.67	3763185.31	23.38037	(15071801)
441116.67	3763235.31	24.37499	(13070502)	441166.67	3763235.31	23.08699	(15072905)
441116.67	3763285.31	24.87239	(15062901)	441166.67	3763285.31	22.89758	(13070502)

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        441116.67   3763335.31       24.43862  (15080603)                441166.67
3763335.31       23.31260  (15062901)
        441116.67   3763385.31       23.96193  (15082423)                441166.67
3763385.31       23.15663  (15080603)
        441116.67   3763435.31       23.62123  (15062124)                441166.67
3763435.31       22.81388  (15082423)
        440433.43   3762815.13       66.03300  (16012217)                440483.43
3762815.13       58.79784  (16101601)
        440533.43   3762815.13       52.54622  (16111017)                440583.43
3762815.13       49.66066  (12082820)
        440633.43   3762815.13       44.42687  (13072106)                440683.43
3762815.13       40.67185  (15070606)
        440733.43   3762815.13       38.07211  (13062920)                440783.43
3762815.13       34.35474  (16061306)
        440833.43   3762815.13       32.97196  (16061306)                440883.43
3762815.13       30.21576  (13051321)
        440933.43   3762815.13       26.94442  (15092020)                440983.43
3762815.13       25.04572  (15092020)
        440433.43   3762865.13       62.83361  (13072121)                440483.43
3762865.13       60.05755  (16012217)
        440533.43   3762865.13       54.29082  (13110717)                440583.43
3762865.13       50.02422  (16111017)
        440633.43   3762865.13       46.93095  (12082820)                440683.43
3762865.13       43.69740  (15070406)
        440733.43   3762865.13       40.52675  (15070606)                440783.43
3762865.13       36.39633  (13062920)
        440833.43   3762865.13       31.98086  (15060920)                440883.43
3762865.13       28.48004  (16061306)
        440933.43   3762865.13       25.51918  (13012217)                440983.43
3762865.13       24.07352  (13051321)
        441118.27   3762686.02       22.39687  (13090620)                441168.27
3762686.02       20.90635  (13083023)
        441118.27   3762736.02       21.76878  (16092820)                441168.27
3762736.02       20.29857  (12092120)
        441118.27   3762786.02       21.13192  (15072203)                441168.27
3762786.02       19.94324  (15091021)
        441118.27   3762836.02       20.78427  (15062719)                441168.27
3762836.02       19.44818  (15062719)
        440411.67   3762093.41       81.16310  (15012217)                440461.67
3762093.41       72.37016  (12012517)
        440511.67   3762093.41       64.75744  (13012317)                440561.67
3762093.41       57.85875  (15091323)
        440611.67   3762093.41       52.51163  (12012417)                440411.67
3762143.41       98.36740  (12012517)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:56:46

                                  PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	84.51375	(15071919)	440511.67	3762143.41	73.70221	(15091323)
440561.67	3762143.41	65.10493	(12092121)	440611.67	3762143.41	57.73555	(15080521)
440406.61	3762008.86	60.40303	(14011422)	440456.61	3762008.86	57.91833	(15012217)
440506.61	3762008.86	53.50483	(12012517)	440556.61	3762008.86	48.82288	(15071919)
440606.61	3762008.86	45.06078	(13012317)	440656.61	3762008.86	40.94215	(12012417)
440706.61	3762008.86	38.03863	(12012417)	440756.61	3762008.86	35.18332	(15070806)
440806.61	3762008.86	32.08627	(15080521)	440856.61	3762008.86	29.55255	(16083020)
440906.61	3762008.86	27.71753	(16062022)	440956.61	3762008.86	25.71206	(15091122)
441006.61	3762008.86	23.85229	(13051806)	441056.61	3762008.86	22.30733	(13051806)
441106.61	3762008.86	20.74257	(16072722)	441156.61	3762008.86	19.45766	(12080921)
440406.61	3762058.86	71.14638	(14100521)	440456.61	3762058.86	67.09693	(12012517)
440506.61	3762058.86	59.79121	(16021220)	440556.61	3762058.86	54.82846	(13012317)
440606.61	3762058.86	49.22296	(12012417)	440656.61	3762058.86	44.96634	(12012417)
440706.61	3762058.86	41.21635	(15070806)	440756.61	3762058.86	37.36508	(15091324)
440806.61	3762058.86	34.20733	(16062022)	440856.61	3762058.86	31.46619	(15091122)
440906.61	3762058.86	28.91692	(13051806)	440956.61	3762058.86	26.89092	(13051806)
441006.61	3762058.86	24.78418	(16072722)	441056.61			

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	2.56713	(12010913)	439943.36	3761716.33	8.11092	(12122413)
439170.17	3763092.51	1.32752	(15113013)	439220.17	3763092.51	1.37435	(15113013)
439270.17	3763092.51	1.40472	(15113013)	439320.17	3763092.51	1.40893	(15113013)
439370.17	3763092.51	1.38498	(15113013)	439420.17	3763092.51	1.33046	(15113013)
439470.17	3763092.51	1.24292	(15113013)	439520.17	3763092.51	1.12047	(15113013)
439570.17	3763092.51	0.99330	(14120813)	439620.17	3763092.51	0.98880	(14120813)
439670.17	3763092.51	0.97192	(14120813)	439720.17	3763092.51	0.94209	(14120813)

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        439770.17   3763092.51        1.35724  (14041413)              439820.17
3763092.51        1.86231  (14041413)
        439870.17   3763092.51        2.38707  (14041413)              439170.17
3763142.51        1.20100  (15113013)
        439220.17   3763142.51        1.21115  (15113013)              439270.17
3763142.51        1.20401  (15113013)
        439320.17   3763142.51        1.17164  (15113013)              439370.17
3763142.51        1.11524  (15113013)
        439420.17   3763142.51        1.03538  (15113013)              439470.17
3763142.51        0.92721  (15113013)
        439520.17   3763142.51        0.87649  (14120813)              439570.17
3763142.51        0.86973  (14120813)
        439620.17   3763142.51        0.85292  (14120813)              439670.17
3763142.51        0.82392  (14120813)
        439720.17   3763142.51        1.03925  (14041413)              439770.17
3763142.51        1.43701  (14041413)
        439820.17   3763142.51        1.87204  (14041413)              439870.17
3763142.51        2.28147  (14041413)
        439170.17   3763192.51        1.05156  (15113013)              439220.17
3763192.51        1.03335  (15113013)
        439270.17   3763192.51        0.99900  (15113013)              439320.17
3763192.51        0.94214  (15113013)
        439370.17   3763192.51        0.86839  (15113013)              439420.17
3763192.51        0.78900  (14120813)
        439470.17   3763192.51        0.78434  (14120813)              439520.17
3763192.51        0.77379  (14120813)
        439570.17   3763192.51        0.75634  (14120813)              439620.17
3763192.51        0.73042  (14120813)
        439670.17   3763192.51        0.80736  (14041413)              439720.17
3763192.51        1.11818  (14041413)
        439770.17   3763192.51        1.47298  (14041413)              439820.17
3763192.51        1.83328  (14041413)
        439870.17   3763192.51        2.13824  (14041413)              439170.17
3763242.51        0.89357  (15113013)
        439220.17   3763242.51        0.85541  (15113013)              439270.17
3763242.51        0.80341  (15113013)
        439320.17   3763242.51        0.73599  (15113013)              439370.17
3763242.51        0.71588  (14120813)
        439420.17   3763242.51        0.70908  (14120813)              439470.17
3763242.51        0.69653  (14120813)
        439520.17   3763242.51        0.67833  (14120813)              439570.17
3763242.51        0.65356  (14120813)
        439620.17   3763242.51        0.63850  (14041413)              439670.17
3763242.51        0.88676  (14041413)
        439720.17   3763242.51        1.17433  (14041413)              439770.17
3763242.51        1.47996  (14041413)
        439820.17   3763242.51        1.76342  (14041413)              439870.17
3763242.51        1.97524  (14041413)
        439170.17   3763292.51        0.73795  (15113013)              439220.17
3763292.51        0.68601  (15113013)
        439270.17   3763292.51        0.66053  (14120813)              439320.17
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	0.59426	(14120813)	439370.17	3763342.51	0.58049	(14120813)
439420.17	3763342.51	0.56193	(14120813)	439470.17	3763342.51	0.53883	(14120813)
439520.17	3763342.51	0.51118	(14120813)	439570.17	3763342.51	0.57054	(14041413)
439620.17	3763342.51	0.76775	(14041413)	439670.17	3763342.51	0.98730	(14041413)
439720.17	3763342.51	1.21300	(14041413)	439770.17	3763342.51	1.41653	(14041413)
439820.17	3763342.51	1.57043	(14041413)	439870.17	3763342.51	1.64170	(14041413)
439170.17	3763392.51	0.57261	(14120813)	439220.17	3763392.51	0.56296	(14120813)

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        439270.17   3763392.51        0.55113  (14120813)              439320.17
3763392.51        0.53576  (14120813)
        439370.17   3763392.51        0.51784  (14120813)              439420.17
3763392.51        0.49562  (14120813)
        439470.17   3763392.51        0.46976  (14120813)              439520.17
3763392.51        0.46320  (14041413)
        439570.17   3763392.51        0.62544  (14041413)              439620.17
3763392.51        0.81240  (14041413)
        439670.17   3763392.51        1.00965  (14041413)              439720.17
3763392.51        1.20145  (14041413)
        439770.17   3763392.51        1.35962  (14041413)              439820.17
3763392.51        1.46121  (14041413)
        439870.17   3763392.51        1.48321  (14041413)              439170.17
3763442.51        0.52789  (14120813)
        439220.17   3763442.51        0.51466  (14120813)              439270.17
3763442.51        0.49916  (14120813)
        439320.17   3763442.51        0.48103  (14120813)              439370.17
3763442.51        0.46002  (14120813)
        439420.17   3763442.51        0.43579  (14120813)              439470.17
3763442.51        0.40847  (14120813)
        439520.17   3763442.51        0.51346  (14041413)              439570.17
3763442.51        0.67037  (14041413)
        439620.17   3763442.51        0.84294  (14041413)              439670.17
3763442.51        1.01626  (14041413)
        439720.17   3763442.51        1.17263  (14041413)              439770.17
3763442.51        1.28967  (14041413)
        439820.17   3763442.51        1.34829  (14041413)              439870.17
3763442.51        1.33369  (14041413)
        439203.20   3762911.16        1.67364  (14010613)              439253.20
3762911.16        1.75686  (14010613)
        439303.20   3762911.16        1.90170  (15113013)              439353.20
3762911.16        2.10913  (15113013)
        439403.20   3762911.16        2.30493  (15113013)              439453.20
3762911.16        2.47934  (15113013)
        439503.20   3762911.16        2.61928  (15113013)              439553.20
3762911.16        2.69992  (15113013)
        439203.20   3762961.16        1.54993  (15113013)              439253.20
3762961.16        1.70612  (15113013)
        439303.20   3762961.16        1.85676  (15113013)              439353.20
3762961.16        1.99692  (15113013)
        439403.20   3762961.16        2.11417  (15113013)              439453.20
3762961.16        2.19341  (15113013)
        439503.20   3762961.16        2.22781  (15113013)              439553.20
3762961.16        2.19753  (15113013)
        439203.20   3763011.16        1.52321  (15113013)              439253.20
3763011.16        1.63410  (15113013)
        439303.20   3763011.16        1.72996  (15113013)              439353.20
3763011.16        1.80256  (15113013)
        439403.20   3763011.16        1.84947  (15113013)              439453.20
3763011.16        1.84962  (15113013)
        439503.20   3763011.16        1.80506  (15113013)              439553.20
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	4.18010	(14120113)	439546.01	3762392.48	4.81118	(14120113)
439196.01	3762442.48	1.83377	(14120113)	439246.01	3762442.48	2.01295	(14120113)
439296.01	3762442.48	2.22022	(14120113)	439346.01	3762442.48	2.46300	(14120113)
439396.01	3762442.48	2.74956	(14120113)	439446.01	3762442.48	3.09175	(14120113)
439496.01	3762442.48	3.50810	(14120113)	439546.01	3762442.48	4.02066	(14120113)
439196.01	3762492.48	1.85570	(16122613)	439246.01	3762492.48	2.04602	(16122613)
439296.01	3762492.48	2.26376	(16122613)	439346.01	3762492.48	2.51411	(16122613)

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        439396.01   3762492.48        2.81845  (12020613)              439446.01
3762492.48        3.29159  (12020613)
        439496.01   3762492.48        3.87290  (12020613)              439546.01
3762492.48        4.59679  (12020613)
        439196.01   3762542.48        2.08389  (12020613)              439246.01
3762542.48        2.36080  (12020613)
        439296.01   3762542.48        2.68459  (12020613)              439346.01
3762542.48        3.06653  (12020613)
        439396.01   3762542.48        3.51738  (12020613)              439446.01
3762542.48        4.05525  (12020613)
        439496.01   3762542.48        4.69671  (12020613)              439546.01
3762542.48        5.47344  (12020613)
        439196.01   3762592.48        2.47401  (12020613)              439246.01
3762592.48        2.76883  (12020613)
        439296.01   3762592.48        3.10777  (12020613)              439346.01
3762592.48        3.49594  (12020613)
        439396.01   3762592.48        3.94143  (12020613)              439446.01
3762592.48        4.45213  (12020613)
        439496.01   3762592.48        5.03519  (12020613)              439546.01
3762592.48        5.70608  (12020613)
        439196.01   3762642.48        2.70858  (12020613)              439246.01
3762642.48        2.98310  (12020613)
        439296.01   3762642.48        3.28887  (12020613)              439346.01
3762642.48        3.62468  (12020613)
        439396.01   3762642.48        3.98978  (12020613)              439446.01
3762642.48        4.38428  (12020613)
        439496.01   3762642.48        4.80395  (12020613)              439546.01
3762642.48        5.24801  (12020613)
        439196.01   3762692.48        2.74493  (12020613)              439246.01
3762692.48        2.96301  (12020613)
        439296.01   3762692.48        3.19003  (12020613)              439346.01
3762692.48        3.42502  (12020613)
        439396.01   3762692.48        3.66375  (12020613)              439446.01
3762692.48        3.89494  (12020613)
        439496.01   3762692.48        4.10852  (12020613)              439546.01
3762692.48        4.29512  (12020613)
        439196.01   3762742.48        2.58313  (12020613)              439246.01
3762742.48        2.72165  (12020613)
        439296.01   3762742.48        2.85318  (12020613)              439346.01
3762742.48        2.97196  (12020613)
        439396.01   3762742.48        3.07103  (12020613)              439446.01
3762742.48        3.14118  (12020613)
        439496.01   3762742.48        3.21481  (14010613)              439546.01
3762742.48        3.62135  (16010413)
        439196.01   3762792.48        2.26290  (12020613)              439246.01
3762792.48        2.32307  (12020613)
        439296.01   3762792.48        2.36012  (12020613)              439346.01
3762792.48        2.37386  (12020613)
        439396.01   3762792.48        2.54173  (14010613)              439446.01
3762792.48        2.78420  (16010413)
        439496.01   3762792.48        3.08003  (16010413)              439546.01
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3762792.48 3.41381 (15113013)
 439196.01 3762842.48 1.85018 (12020613) 439246.01
3762842.48 1.89053 (14010613)
 439296.01 3762842.48 2.05612 (14010613) 439346.01
3762842.48 2.20936 (14010613)
 439396.01 3762842.48 2.40553 (16010413) 439446.01
3762842.48 2.63812 (15113013)
 439496.01 3762842.48 2.94160 (15113013) 439546.01
3762842.48 3.22860 (15113013)
 439573.31 3762470.54 4.50726 (12020613) 439623.31
3762470.54 5.46771 (12020613)
 439673.31 3762470.54 6.72645 (12020613) 439723.31
3762470.54 8.39805 (12020613)
 439773.31 3762470.54 10.63835 (12020613) 439823.31
3762470.54 13.67467 (12020613)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	17.85067	(12020613)	439573.31	3762520.54	5.65442	(12020613)
439623.31	3762520.54	6.73189	(12020613)	439673.31	3762520.54	8.08770	(12020613)
439723.31	3762520.54	9.80809	(12020613)	439773.31	3762520.54	11.98831	(12020613)
439823.31	3762520.54	14.74207	(12020613)	439873.31	3762520.54	18.15227	(12020613)
439573.31	3762570.54	6.14918	(12020613)	439623.31	3762570.54	7.09488	(12020613)
439673.31	3762570.54	8.20526	(12020613)	439723.31	3762570.54	9.50626	(12020613)
439773.31	3762570.54	10.99079	(12020613)	439823.31	3762570.54	12.60798	(12020613)

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        439873.31   3762570.54       14.21580  (12020613)              439573.31
3762620.54        5.84842  (12020613)
        439623.31   3762620.54        6.46670  (12020613)              439673.31
3762620.54        7.11194  (12020613)
        439723.31   3762620.54        7.75452  (12020613)              439773.31
3762620.54        8.33506  (12020613)
        439823.31   3762620.54        9.28496  (16010413)              439873.31
3762620.54       11.02562  (15113013)
        439573.31   3762670.54        4.90840  (12020613)              439623.31
3762670.54        5.15278  (12020613)
        439673.31   3762670.54        5.36010  (16010413)              439723.31
3762670.54        6.23529  (16010413)
        439773.31   3762670.54        7.17281  (15113013)              439823.31
3762670.54        8.42721  (15113013)
        439873.31   3762670.54        9.54799  (15113013)              439152.35
3761448.92        1.83601  (12121713)
        439202.35   3761448.92        1.86088  (12121713)              439252.35
3761448.92        1.87704  (12121713)
        439302.35   3761448.92        1.88088  (12121713)              439352.35
3761448.92        1.87158  (12121713)
        439402.35   3761448.92        1.84622  (12121713)              439452.35
3761448.92        1.80510  (12121713)
        439502.35   3761448.92        1.74753  (12121713)              439552.35
3761448.92        1.76902  (12122413)
        439152.35   3761498.92        1.86429  (12121713)              439202.35
3761498.92        1.90463  (12121713)
        439252.35   3761498.92        1.93662  (12121713)              439302.35
3761498.92        1.95610  (12121713)
        439352.35   3761498.92        1.96282  (12121713)              439402.35
3761498.92        1.95530  (12121713)
        439452.35   3761498.92        1.93035  (12121713)              439502.35
3761498.92        1.88879  (12121713)
        439552.35   3761498.92        1.82771  (12121713)              439152.35
3761548.92        1.87815  (12121713)
        439202.35   3761548.92        1.93290  (12121713)              439252.35
3761548.92        1.98068  (12121713)
        439302.35   3761548.92        2.01743  (12121713)              439352.35
3761548.92        2.04317  (12121713)
        439402.35   3761548.92        2.05574  (12121713)              439452.35
3761548.92        2.05234  (12121713)
        439502.35   3761548.92        2.02988  (12121713)              439552.35
3761548.92        1.98795  (12121713)
        439152.35   3761598.92        1.87528  (12121713)              439202.35
3761598.92        1.94475  (12121713)
        439252.35   3761598.92        2.00882  (12121713)              439302.35
3761598.92        2.06518  (12121713)
        439352.35   3761598.92        2.11095  (12121713)              439402.35
3761598.92        2.14637  (12121713)
        439452.35   3761598.92        2.16658  (12121713)              439502.35
3761598.92        2.16897  (12121713)
        439552.35   3761598.92        2.15068  (12121713)              439152.35
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	2.35583	(12121713)	439502.35	3761698.92	2.41977	(12121713)
439552.35	3761698.92	2.46659	(12121713)	439152.35	3761748.92	1.74985	(12121713)
439202.35	3761748.92	1.86124	(12121713)	439252.35	3761748.92	1.97410	(12121713)
439302.35	3761748.92	2.08958	(12121713)	439352.35	3761748.92	2.20359	(12121713)
439402.35	3761748.92	2.31532	(12121713)	439452.35	3761748.92	2.42164	(12121713)
439502.35	3761748.92	2.51991	(12121713)	439552.35	3761748.92	2.60761	(12121713)
439152.35	3761798.92	1.66872	(12121713)	439202.35	3761798.92	1.78964	(12121713)

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        439252.35   3761798.92        1.91614  (12121713)              439302.35
3761798.92        2.04868  (12121713)
        439352.35   3761798.92        2.18413  (12121713)              439402.35
3761798.92        2.32253  (12121713)
        439452.35   3761798.92        2.46182  (12121713)              439502.35
3761798.92        2.59802  (12121713)
        439552.35   3761798.92        2.72968  (12121713)              439152.35
3761848.92        1.56944  (12121713)
        439202.35   3761848.92        1.69660  (12121713)              439252.35
3761848.92        1.83274  (12121713)
        439302.35   3761848.92        1.97881  (12121713)              439352.35
3761848.92        2.13366  (12121713)
        439402.35   3761848.92        2.29852  (12121713)              439452.35
3761848.92        2.46969  (12121713)
        439502.35   3761848.92        2.64527  (12121713)              439552.35
3761848.92        2.82500  (12121713)
        439152.35   3761898.92        1.45273  (12121713)              439202.35
3761898.92        1.58375  (12121713)
        439252.35   3761898.92        1.72631  (12121713)              439302.35
3761898.92        1.88287  (12121713)
        439352.35   3761898.92        2.05352  (12121713)              439402.35
3761898.92        2.23860  (12121713)
        439452.35   3761898.92        2.43977  (12121713)              439502.35
3761898.92        2.65524  (12121713)
        439552.35   3761898.92        2.88281  (12121713)              439152.35
3761948.92        1.50255  (12010213)
        439202.35   3761948.92        1.52959  (12010213)              439252.35
3761948.92        1.59719  (12121713)
        439302.35   3761948.92        1.76036  (12121713)              439352.35
3761948.92        1.94131  (12121713)
        439402.35   3761948.92        2.17348  (14112413)              439452.35
3761948.92        2.46602  (14112413)
        439502.35   3761948.92        2.74892  (14112413)              439552.35
3761948.92        2.99691  (14112413)
        439152.35   3761998.92        1.57516  (12010213)              439202.35
3761998.92        1.61735  (12010213)
        439252.35   3761998.92        1.71693  (16012513)              439302.35
3761998.92        1.82462  (16012513)
        439352.35   3761998.92        1.92422  (16012513)              439402.35
3761998.92        2.03669  (13101413)
        439452.35   3761998.92        2.37456  (14112413)              439502.35
3761998.92        2.76575  (14112413)
        439552.35   3761998.92        3.16632  (14112413)              439152.35
3762048.92        1.78849  (14120113)
        439202.35   3762048.92        1.86215  (14120113)              439252.35
3762048.92        1.93601  (14120113)
        439302.35   3762048.92        2.00892  (14120113)              439352.35
3762048.92        2.15978  (16012513)
        439402.35   3762048.92        2.32731  (16012513)              439452.35
3762048.92        2.48626  (16012513)
        439502.35   3762048.92        2.64559  (13101413)              439552.35
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3762048.92   3.06858 (14112413)
        439616.61   3761420.65   2.62781 (12122413)   439666.61
3761420.65   3.22547 (12122413)
        439716.61   3761420.65   3.75629 (12122413)   439766.61
3761420.65   4.13255 (12122413)
        439816.61   3761420.65   4.27371 (12122413)   439866.61
3761420.65   4.13144 (12122413)
        439616.61   3761470.65   2.46412 (12122413)   439666.61
3761470.65   3.14366 (12122413)
        439716.61   3761470.65   3.80278 (12122413)   439766.61
3761470.65   4.33877 (12122413)
        439816.61   3761470.65   4.64704 (12122413)   439866.61
3761470.65   4.64302 (12122413)
        439616.61   3761520.65   2.25033 (12122413)   439666.61
3761520.65   2.99448 (12122413)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN   ***
                                   INCLUDING SOURCE(S):   PAREA4   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439716.61   3761520.65   3.77308 (12122413)   439766.61
3761520.65   4.48129 (12122413)
        439816.61   3761520.65   4.98859 (12122413)   439866.61
3761520.65   5.17056 (12122413)
        439616.61   3761570.65   1.99184 (12122413)   439666.61
3761570.65   2.77501 (12122413)
        439716.61   3761570.65   3.65815 (12122413)   439766.61
3761570.65   4.53914 (12122413)
        439816.61   3761570.65   5.27123 (12122413)   439866.61
3761570.65   5.69139 (12122413)
        440451.14   3762893.83   9.85944 (12011613)   440501.14
3762893.83   10.20497 (12011613)
        440551.14   3762893.83   9.27576 (12011613)   440601.14
3762893.83   7.53903 (12011613)

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        440651.14   3762893.83        6.68649  (12022713)              440701.14
3762893.83        5.62500  (13050613)
        440751.14   3762893.83        5.66428  (13050613)              440801.14
3762893.83        5.28379  (13050613)
        440851.14   3762893.83        4.63780  (13050613)              440451.14
3762943.83        7.63067  (12011613)
        440501.14   3762943.83        8.33943  (12011613)              440551.14
3762943.83        8.08020  (12011613)
        440601.14   3762943.83        7.02726  (12011613)              440651.14
3762943.83        6.05639  (12022713)
        440701.14   3762943.83        5.41835  (12022713)              440751.14
3762943.83        4.68267  (13102813)
        440801.14   3762943.83        4.70105  (13050613)              440851.14
3762943.83        4.42615  (13050613)
        441116.67   3763135.31        2.22423  (12021313)              441166.67
3763135.31        2.03880  (12021313)
        441116.67   3763185.31        2.14192  (13050613)              441166.67
3763185.31        1.98814  (12021313)
        441116.67   3763235.31        1.99422  (13050613)              441166.67
3763235.31        1.90509  (13050613)
        441116.67   3763285.31        1.87876  (13102813)              441166.67
3763285.31        1.77639  (13050613)
        441116.67   3763335.31        1.78494  (13102813)              441166.67
3763335.31        1.69490  (13102813)
        441116.67   3763385.31        1.62838  (13102813)              441166.67
3763385.31        1.61998  (13102813)
        441116.67   3763435.31        1.49624  (12022713)              441166.67
3763435.31        1.48977  (13102813)
        440433.43   3762815.13       14.51159  (12011613)              440483.43
3762815.13       14.16405  (12011613)
        440533.43   3762815.13       11.88728  (12011613)              440583.43
3762815.13        9.30156  (12022713)
        440633.43   3762815.13        7.92043  (13050613)              440683.43
3762815.13        7.79919  (13050613)
        440733.43   3762815.13        7.01202  (13050613)              440783.43
3762815.13        5.87656  (13050613)
        440833.43   3762815.13        4.66799  (13050613)              440883.43
3762815.13        3.88285  (12032613)
        440933.43   3762815.13        3.23996  (14122213)              440983.43
3762815.13        2.97380  (12102213)
        440433.43   3762865.13       11.02517  (12011613)              440483.43
3762865.13       11.59162  (12011613)
        440533.43   3762865.13       10.56348  (12011613)              440583.43
3762865.13        8.53505  (12011613)
        440633.43   3762865.13        7.33105  (12022713)              440683.43
3762865.13        6.37136  (13050613)
        440733.43   3762865.13        6.29088  (13050613)              440783.43
3762865.13        5.74128  (13050613)
        440833.43   3762865.13        4.92511  (13050613)              440883.43
3762865.13        4.02608  (13050613)
        440933.43   3762865.13        3.31976  (12032613)              440983.43
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3762865.13   2.82685 (12032613)
        441118.27   3762686.02   4.03462 (12042313)   441168.27
3762686.02   3.50398 (12042313)
        441118.27   3762736.02   4.08398 (12042313)   441168.27
3762736.02   3.70194 (12042313)
        441118.27   3762786.02   3.63519 (12042313)   441168.27
3762786.02   3.47403 (12042313)
        441118.27   3762836.02   2.88213 (12042313)   441168.27
3762836.02   2.91429 (12042313)
        440411.67   3762093.41   17.57255 (15122113)   440461.67
3762093.41   15.61974 (15122113)
        440511.67   3762093.41   14.38999 (12031213)   440561.67
3762093.41   12.80741 (12031213)
        440611.67   3762093.41   10.61469 (12031213)   440411.67
3762143.41   23.94682 (15122113)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN   ***
                                    INCLUDING SOURCE(S):   PAREA4   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440461.67   3762143.41   20.97133 (12031213)   440511.67
3762143.41   18.46371 (12031213)
        440561.67   3762143.41   14.87725 (12031213)   440611.67
3762143.41   11.31292 (12031213)
        440406.61   3762008.86   10.94711 (12010913)   440456.61
3762008.86   10.77846 (15122113)
        440506.61   3762008.86   9.84139 (15122113)   440556.61
3762008.86   8.78708 (12031213)
        440606.61   3762008.86   8.27878 (12031213)   440656.61
3762008.86   7.33301 (12031213)
        440706.61   3762008.86   6.21685 (12031213)   440756.61
3762008.86   5.11215 (12031213)
        440806.61   3762008.86   4.25624 (14111013)   440856.61
3762008.86   3.86005 (14111013)

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        440906.61   3762008.86        3.73044  (12121013)                440956.61
3762008.86        3.62378  (12121013)
        441006.61   3762008.86        3.46571  (12121013)                441056.61
3762008.86        3.27539  (12121013)
        441106.61   3762008.86        3.06690  (12121013)                441156.61
3762008.86        2.85161  (12121013)
        440406.61   3762058.86       14.16585  (15122113)                440456.61
3762058.86       13.63325  (15122113)
        440506.61   3762058.86       11.80640  (12031213)                440556.61
3762058.86       11.24834  (12031213)
        440606.61   3762058.86        9.89265  (12031213)                440656.61
3762058.86        8.20975  (12031213)
        440706.61   3762058.86        6.54375  (12031213)                440756.61
3762058.86        5.28055  (14111013)
        440806.61   3762058.86        4.89926  (12121013)                440856.61
3762058.86        4.71707  (12121013)
        440906.61   3762058.86        4.45072  (12121013)                440956.61
3762058.86        4.14054  (12121013)
        441006.61   3762058.86        3.81189  (12121013)                441056.61
3762058.86        3.48266  (12121013)
        441106.61   3762058.86        3.16510  (12121013)                441156.61
3762058.86        2.86621  (12121013)
        440191.38   3762138.44       47.64293  (12122413)                440241.38
3762138.44       30.29084  (12122413)
        440291.38   3762138.44       28.29364  (15122813)                440341.38
3762138.44       26.05514  (12010913)
        440191.38   3762188.44       75.20923  (12122413)                440241.38
3762188.44       54.19729  (12122413)
        440291.38   3762188.44       45.04128  (15122813)                440341.38
3762188.44       39.46507  (12010913)
        440191.38   3762238.44      120.93907  (12122413)                440241.38
3762238.44      102.38574  (12122413)
        440291.38   3762238.44       83.14439  (15122813)                440341.38
3762238.44       64.09216  (15122813)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
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, L0013598   , L0013599   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	41.21981	(15122901)	439943.36	3761716.33	54.90643	(16092523)
439170.17	3763092.51	33.93730	(15072001)	439220.17	3763092.51	36.59582	(15072001)
439270.17	3763092.51	38.13967	(15010620)	439320.17	3763092.51	41.35491	(16102806)
439370.17	3763092.51	44.04514	(15101220)	439420.17	3763092.51	44.93274	(14030901)
439470.17	3763092.51	45.19350	(13101421)	439520.17	3763092.51	47.57265	(16102418)
439570.17	3763092.51	50.11638	(14030104)	439620.17	3763092.51	55.78126	(15070104)
439670.17	3763092.51	61.28996	(14010617)	439720.17	3763092.51	66.08653	(15031521)
439770.17	3763092.51	69.69235	(15090205)	439820.17	3763092.51	72.77219	(16102019)
439870.17	3763092.51	79.15568	(14091524)	439170.17	3763142.51	34.32903	(15091002)
439220.17	3763142.51	37.58643	(16102806)	439270.17	3763142.51	38.53065	(15101220)
439320.17	3763142.51	42.42498	(15101220)	439370.17	3763142.51	43.42281	(15101220)
439420.17	3763142.51	43.83576	(13101421)	439470.17	3763142.51	47.45177	(15102306)
439520.17	3763142.51	50.14493	(15102306)	439570.17	3763142.51	51.82240	(15070104)
439620.17	3763142.51	54.85683	(15070104)	439670.17	3763142.51	59.51962	(15031521)
439720.17	3763142.51	63.84079	(15090205)	439770.17	3763142.51	66.33881	(16102019)
439820.17	3763142.51	71.53331	(14091524)	439870.17	3763142.51	74.55671	(13090904)
439170.17	3763192.51	35.60279	(16102806)	439220.17	3763192.51	38.02140	(15101220)
439270.17	3763192.51	39.17962	(15101220)	439320.17	3763192.51	40.76598	(15101220)
439370.17	3763192.51	42.08995	(13101421)	439420.17	3763192.51	43.74866	(15102306)
439470.17	3763192.51	46.39589	(15102306)	439520.17			

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3763192.51       48.65255  (15070104)
        439570.17   3763192.51       51.12124  (15070104)                439620.17
3763192.51       52.99798  (14010617)
        439670.17   3763192.51       58.44066  (15090205)                439720.17
3763192.51       61.84073  (15100522)
        439770.17   3763192.51       66.03575  (12010219)                439820.17
3763192.51       69.80796  (14091524)
        439870.17   3763192.51       71.20141  (12091522)                439170.17
3763242.51       37.03902  (15101220)
        439220.17   3763242.51       38.44437  (15101220)                439270.17
3763242.51       38.23591  (15101220)
        439320.17   3763242.51       40.22005  (15082702)                439370.17
3763242.51       42.30981  (15082702)
        439420.17   3763242.51       43.75445  (15102306)                439470.17
3763242.51       46.17799  (16040703)
        439520.17   3763242.51       48.59019  (15070104)                439570.17
3763242.51       50.53900  (13111320)
        439620.17   3763242.51       52.68032  (15090205)                439670.17
3763242.51       55.35472  (15100522)
        439720.17   3763242.51       59.41283  (12010219)                439770.17
3763242.51       64.03051  (14091524)
        439820.17   3763242.51       66.30007  (13090904)                439870.17
3763242.51       69.59959  (15081402)
        439170.17   3763292.51       37.04405  (15101220)                439220.17
3763292.51       38.52936  (14120303)
        439270.17   3763292.51       40.30518  (15082702)                439320.17
3763292.51       41.64573  (15082702)
        439370.17   3763292.51       41.52113  (15102306)                439420.17
3763292.51       43.90134  (16040703)
        439470.17   3763292.51       46.80422  (15092402)                439520.17
3763292.51       49.03960  (13111320)
        439570.17   3763292.51       49.63360  (15090205)                439620.17
3763292.51       51.74910  (15090205)
        439670.17   3763292.51       53.91122  (15031421)                439720.17
3763292.51       57.90096  (12010219)
        439770.17   3763292.51       62.09083  (13090904)                439820.17
3763292.51       64.98477  (12091522)
        439870.17   3763292.51       67.28123  (15100921)                439170.17
3763342.51       36.42448  (14120303)
        439220.17   3763342.51       38.88128  (15082702)                439270.17
3763342.51       39.62511  (15082702)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:56:46

                                   PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
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INCLUDING SOURCE(S): L0013572 , L0013573
, L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581
, L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589
, L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597
, L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	40.43760	(12081704)	439370.17	3763342.51	40.77762	(16040703)
439420.17	3763342.51	43.43294	(15092402)	439470.17	3763342.51	45.61552	(13111320)
439520.17	3763342.51	47.57222	(16072323)	439570.17	3763342.51	49.01114	(15090205)
439620.17	3763342.51	50.03737	(15031421)	439670.17	3763342.51	52.91521	(12010219)
439720.17	3763342.51	56.46136	(14091524)	439770.17	3763342.51	60.04718	(15092601)
439820.17	3763342.51	63.17258	(15081402)	439870.17	3763342.51	64.69445	(15070102)
439170.17	3763392.51	36.97110	(15082702)	439220.17	3763392.51	38.70061	(15082702)
439270.17	3763392.51	38.98508	(12081704)	439320.17	3763392.51	40.67470	(15063003)
439370.17	3763392.51	41.90146	(15062721)	439420.17	3763392.51	43.71207	(15062224)
439470.17	3763392.51	45.83869	(16072323)	439520.17	3763392.51	46.49098	(15090205)
439570.17	3763392.51	47.60229	(15031421)	439620.17	3763392.51	48.77746	(15031421)
439670.17	3763392.51	51.87301	(14091524)	439720.17	3763392.51	54.04064	(13090904)
439770.17	3763392.51	57.82446	(12091522)	439820.17	3763392.51	60.54417	(15081402)
439870.17	3763392.51	62.43243	(15070102)	439170.17	3763442.51	36.97519	(15082702)
439220.17	3763442.51	38.80798	(12081704)	439270.17	3763442.51	38.43689	(15063003)
439320.17	3763442.51	40.11358	(15062721)	439370.17	3763442.51	41.12983	(16100302)

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        439420.17   3763442.51       42.41523  (15062224)                439470.17
3763442.51       44.68158  (16072323)
        439520.17   3763442.51       45.36187  (16072103)                439570.17
3763442.51       47.19948  (13091323)
        439620.17   3763442.51       48.37138  (12010219)                439670.17
3763442.51       50.72034  (14091524)
        439720.17   3763442.51       52.81837  (15092601)                439770.17
3763442.51       56.25217  (15081402)
        439820.17   3763442.51       57.46976  (16082406)                439870.17
3763442.51       60.01842  (13082824)
        439203.20   3762911.16       31.58338  (15090919)                439253.20
3762911.16       33.23657  (15090919)
        439303.20   3762911.16       34.61126  (15090919)                439353.20
3762911.16       36.28799  (15021103)
        439403.20   3762911.16       38.21688  (16122818)                439453.20
3762911.16       40.40039  (16122818)
        439503.20   3762911.16       44.05829  (15031221)                439553.20
3762911.16       47.15152  (15031221)
        439203.20   3762961.16       30.31690  (15090919)                439253.20
3762961.16       31.68002  (15021103)
        439303.20   3762961.16       33.73951  (16122818)                439353.20
3762961.16       35.14654  (16122818)
        439403.20   3762961.16       37.22515  (15031221)                439453.20
3762961.16       40.42334  (15031221)
        439503.20   3762961.16       42.25802  (15031221)                439553.20
3762961.16       44.26789  (13101603)
        439203.20   3763011.16       31.31628  (16122818)                439253.20
3763011.16       34.06835  (15072001)
        439303.20   3763011.16       37.27976  (15072001)                439353.20
3763011.16       40.15929  (15031221)
        439403.20   3763011.16       37.17461  (15031221)                439453.20
3763011.16       39.41510  (15031221)
        439503.20   3763011.16       40.60556  (13101603)                439553.20
3763011.16       44.57194  (15120219)
        439203.20   3763061.16       34.02993  (15072001)                439253.20
3763061.16       38.23919  (15072001)
        439303.20   3763061.16       40.13237  (15010620)                439353.20
3763061.16       43.20673  (16102806)
        439403.20   3763061.16       44.55426  (15101220)                439453.20
3763061.16       45.41641  (14030901)
        439503.20   3763061.16       45.38211  (13101421)                439553.20
3763061.16       50.44127  (16102418)
        439196.01   3762392.48       35.72116  (16102417)                439246.01
3762392.48       38.12172  (16102417)
        439296.01   3762392.48       40.79057  (16102417)                439346.01
3762392.48       43.79085  (16102417)
        439396.01   3762392.48       47.17396  (16102417)                439446.01
3762392.48       50.97868  (16102417)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	55.44818	(16102417)	439546.01	3762392.48	60.69816	(16102417)
439196.01	3762442.48	35.76853	(16102417)	439246.01	3762442.48	38.11610	(16102417)
439296.01	3762442.48	40.78548	(16102417)	439346.01	3762442.48	43.73025	(16102417)
439396.01	3762442.48	47.05744	(16102417)	439446.01	3762442.48	50.84906	(16102417)
439496.01	3762442.48	55.16329	(16102417)	439546.01	3762442.48	60.13214	(16102417)
439196.01	3762492.48	34.90112	(15051306)	439246.01	3762492.48	37.30080	(15051306)
439296.01	3762492.48	39.99976	(15051306)	439346.01	3762492.48	43.00972	(15051306)
439396.01	3762492.48	46.35469	(15051306)	439446.01	3762492.48	50.11507	(15051306)
439496.01	3762492.48	54.41889	(15051306)	439546.01	3762492.48	59.28006	(15051306)
439196.01	3762542.48	34.55825	(16022406)	439246.01	3762542.48	36.83904	(16022406)
439296.01	3762542.48	39.38181	(16022406)	439346.01	3762542.48	42.20325	(13122517)
439396.01	3762542.48	45.63536	(13122517)	439446.01	3762542.48	49.42628	(13122517)
439496.01	3762542.48	53.68009	(13122517)	439546.01			

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3762542.48       58.38037  (12112807)
        439196.01   3762592.48       34.41943  (13122517)                439246.01
3762592.48       36.60151  (13122517)
        439296.01   3762592.48       39.02228  (12112807)                439346.01
3762592.48       41.68965  (12112807)
        439396.01   3762592.48       45.18459  (15031224)                439446.01
3762592.48       49.11507  (15031224)
        439496.01   3762592.48       53.41361  (15031224)                439546.01
3762592.48       58.16088  (15031223)
        439196.01   3762642.48       34.18888  (15031224)                439246.01
3762642.48       36.56545  (15031224)
        439296.01   3762642.48       39.06391  (15031224)                439346.01
3762642.48       41.66854  (15031223)
        439396.01   3762642.48       44.99321  (15031223)                439446.01
3762642.48       49.15279  (15063019)
        439496.01   3762642.48       53.61401  (15063019)                439546.01
3762642.48       58.21457  (15063019)
        439196.01   3762692.48       33.99446  (15031223)                439246.01
3762692.48       36.35575  (15063019)
        439296.01   3762692.48       39.17918  (15063019)                439346.01
3762692.48       42.10685  (15063019)
        439396.01   3762692.48       45.07389  (15063019)                439446.01
3762692.48       48.01926  (15063019)
        439496.01   3762692.48       50.81729  (15063019)                439546.01
3762692.48       55.32372  (15112017)
        439196.01   3762742.48       34.25311  (15063019)                439246.01
3762742.48       36.31131  (15063019)
        439296.01   3762742.48       38.31895  (15063019)                439346.01
3762742.48       40.22481  (15063019)
        439396.01   3762742.48       42.77241  (15112017)                439446.01
3762742.48       46.28285  (15112017)
        439496.01   3762742.48       49.61017  (15112017)                439546.01
3762742.48       53.83576  (15090919)
        439196.01   3762792.48       32.89975  (15063019)                439246.01
3762792.48       34.47376  (16122919)
        439296.01   3762792.48       36.88981  (15112017)                439346.01
3762792.48       39.41792  (15112017)
        439396.01   3762792.48       41.76781  (15112017)                439446.01
3762792.48       45.09168  (15090919)
        439496.01   3762792.48       48.17998  (15090919)                439546.01
3762792.48       50.71726  (15090919)
        439196.01   3762842.48       32.20167  (15112017)                439246.01
3762842.48       34.09417  (15112017)
        439296.01   3762842.48       35.92239  (15090919)                439346.01
3762842.48       38.51020  (15090919)
        439396.01   3762842.48       40.83636  (15090919)                439446.01
3762842.48       42.74157  (15090919)
        439496.01   3762842.48       45.26496  (15021103)                439546.01
3762842.48       48.27377  (16122818)
        439573.31   3762470.54       62.94495  (15051306)                439623.31
3762470.54       69.53977  (15051306)
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	130.50260	(13122517)	439573.31	3762520.54	62.02092	(13122517)
439623.31	3762520.54	68.29948	(13122517)	439673.31	3762520.54	75.55170	(12112807)
439723.31	3762520.54	85.25426	(15031224)	439773.31	3762520.54	96.82871	(15031224)
439823.31	3762520.54	110.93794	(15063019)	439873.31	3762520.54	130.56265	(15063019)
439573.31	3762570.54	61.60239	(15031224)	439623.31	3762570.54	67.71459	(15031223)
439673.31	3762570.54	75.97433	(15063019)	439723.31	3762570.54	85.61088	(15063019)
439773.31	3762570.54	96.00346	(15063019)	439823.31	3762570.54	106.71302	(15063019)
439873.31	3762570.54	122.52968	(15112017)	439573.31	3762620.54	61.77752	(15063019)
439623.31	3762620.54	67.54286	(15063019)	439673.31	3762620.54	73.32167	(15063019)

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        439723.31   3762620.54       80.83471  (15112017)              439773.31
3762620.54       90.26927  (15112017)
        439823.31   3762620.54      102.24972  (15090919)              439873.31
3762620.54      113.27824  (15090919)
        439573.31   3762670.54       58.26368  (15112017)              439623.31
3762670.54       64.21583  (15112017)
        439673.31   3762670.54       70.17430  (15090919)              439723.31
3762670.54       77.94851  (15090919)
        439773.31   3762670.54       84.71597  (15090919)              439823.31
3762670.54       93.42853  (16122818)
        439873.31   3762670.54      107.12982  (15031221)              439152.35
3761448.92       22.16205  (14042901)
        439202.35   3761448.92       23.12844  (14042901)              439252.35
3761448.92       23.80701  (14042901)
        439302.35   3761448.92       24.52939  (16020619)              439352.35
3761448.92       25.50556  (16021419)
        439402.35   3761448.92       26.06790  (16021419)              439452.35
3761448.92       27.07109  (12010822)
        439502.35   3761448.92       27.99815  (14110501)              439552.35
3761448.92       29.24893  (15031301)
        439152.35   3761498.92       23.02826  (14043002)              439202.35
3761498.92       23.64321  (14042901)
        439252.35   3761498.92       25.02979  (14042901)              439302.35
3761498.92       25.73504  (14042901)
        439352.35   3761498.92       26.45871  (16020619)              439402.35
3761498.92       27.49582  (16021419)
        439452.35   3761498.92       28.03025  (16021419)              439502.35
3761498.92       29.32543  (12010822)
        439552.35   3761498.92       30.32288  (14110501)              439152.35
3761548.92       23.82685  (14043002)
        439202.35   3761548.92       24.72233  (14043002)              439252.35
3761548.92       25.29815  (14042901)
        439302.35   3761548.92       26.70124  (14042901)              439352.35
3761548.92       27.56867  (14042901)
        439402.35   3761548.92       28.48620  (16020619)              439452.35
3761548.92       29.68333  (16021419)
        439502.35   3761548.92       30.42559  (12010822)              439552.35
3761548.92       31.78259  (12010822)
        439152.35   3761598.92       24.65793  (13101522)              439202.35
3761598.92       25.46770  (13101522)
        439252.35   3761598.92       26.57034  (14043002)              439302.35
3761598.92       27.26335  (14043002)
        439352.35   3761598.92       28.64204  (14042901)              439402.35
3761598.92       29.91769  (14042901)
        439452.35   3761598.92       30.99597  (16020619)              439502.35
3761598.92       32.31816  (16021419)
        439552.35   3761598.92       33.37722  (12010822)              439152.35
3761648.92       25.03040  (16101918)
        439202.35   3761648.92       26.31100  (13101522)              439252.35
3761648.92       27.52866  (13101522)
        439302.35   3761648.92       28.69060  (14043002)              439352.35
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3761648.92 29.60749 (14043002)
 439402.35 3761648.92 31.16726 (14042901) 439452.35
3761648.92 32.69869 (14042901)
 439502.35 3761648.92 33.94927 (16020619) 439552.35
3761648.92 35.65281 (16021419)
 439152.35 3761698.92 26.25990 (16101918) 439202.35
3761698.92 27.10670 (16101918)
 439252.35 3761698.92 28.06450 (13101522) 439302.35
3761698.92 29.68121 (13101522)
 439352.35 3761698.92 31.00220 (14043002) 439402.35
3761698.92 32.49500 (14043002)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	33.84017	(14042901)	439502.35	3761698.92	35.92574	(14042901)
439552.35	3761698.92	37.43514	(16020619)	439152.35	3761748.92	26.53858	(16101918)
439202.35	3761748.92	28.12103	(16101918)	439252.35	3761748.92	29.29482	(16101918)
439302.35	3761748.92	30.27108	(16101918)	439352.35	3761748.92	32.12100	(13101522)
439402.35	3761748.92	33.71407	(13101522)	439452.35	3761748.92	35.34853	(14043002)
439502.35	3761748.92	36.82433	(14042901)	439552.35			

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3761748.92       39.47267  (14042901)
        439152.35   3761798.92       27.41588  (13100622)                439202.35
3761798.92       28.48589  (13100622)
        439252.35   3761798.92       30.07654  (16101918)                439302.35
3761798.92       31.97929  (16101918)
        439352.35   3761798.92       33.26036  (16101918)                439402.35
3761798.92       34.79967  (13101522)
        439452.35   3761798.92       37.07393  (13101522)                439502.35
3761798.92       38.76218  (14043002)
        439552.35   3761798.92       40.69029  (14042901)                439152.35
3761848.92       28.58337  (14051322)
        439202.35   3761848.92       29.76148  (14051322)                439252.35
3761848.92       30.92230  (13100622)
        439302.35   3761848.92       32.18738  (13100622)                439352.35
3761848.92       34.39350  (16101918)
        439402.35   3761848.92       36.64860  (16101918)                439452.35
3761848.92       38.14166  (16101918)
        439502.35   3761848.92       40.54667  (13101522)                439552.35
3761848.92       43.13795  (14043002)
        439152.35   3761898.92       28.97578  (15031321)                439202.35
3761898.92       30.71401  (14051322)
        439252.35   3761898.92       32.31614  (14051322)                439302.35
3761898.92       33.96136  (14051322)
        439352.35   3761898.92       35.53795  (13100622)                439402.35
3761898.92       37.36079  (16101918)
        439452.35   3761898.92       40.48995  (16101918)                439502.35
3761898.92       42.85516  (16101918)
        439552.35   3761898.92       45.44369  (13101522)                439152.35
3761948.92       29.70250  (15031321)
        439202.35   3761948.92       31.39166  (15031321)                439252.35
3761948.92       32.86992  (15031321)
        439302.35   3761948.92       35.12151  (14051322)                439352.35
3761948.92       37.40758  (14051322)
        439402.35   3761948.92       39.25752  (16112908)                439452.35
3761948.92       41.62058  (13100622)
        439502.35   3761948.92       44.62596  (16101918)                439552.35
3761948.92       48.26228  (16101918)
        439152.35   3761998.92       30.49079  (16092601)                439202.35
3761998.92       32.03629  (16092601)
        439252.35   3761998.92       33.44618  (15031321)                439302.35
3761998.92       35.98157  (15031321)
        439352.35   3761998.92       38.32952  (15031321)                439402.35
3761998.92       40.69599  (14051322)
        439452.35   3761998.92       43.77487  (14051322)                439502.35
3761998.92       46.47749  (16112908)
        439552.35   3761998.92       49.49095  (13100622)                439152.35
3762048.92       31.53501  (14051419)
        439202.35   3762048.92       33.16069  (14051419)                439252.35
3762048.92       34.71088  (16092601)
        439302.35   3762048.92       37.03601  (16092601)                439352.35
3762048.92       39.29016  (16092601)
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439402.35	3762048.92	41.86078	(15031321)	439452.35	3762048.92	45.05897	(15031321)
439502.35	3762048.92	48.34941	(14051322)	439552.35	3762048.92	52.56892	(14051322)
439616.61	3761420.65	29.04846	(14022807)	439666.61	3761420.65	31.23346	(12110417)
439716.61	3761420.65	32.60158	(12110417)	439766.61	3761420.65	32.98179	(13101517)
439816.61	3761420.65	33.40458	(14100421)	439866.61	3761420.65	34.68812	(13101419)
439616.61	3761470.65	30.95698	(13112508)	439666.61	3761470.65	31.88641	(12110417)
439716.61	3761470.65	34.32751	(12110417)	439766.61	3761470.65	35.36266	(13101517)
439816.61	3761470.65	35.52605	(16092523)	439866.61	3761470.65	36.70644	(16020708)
439616.61	3761520.65	32.74384	(15031301)	439666.61	3761520.65	33.54325	(13112508)
439716.61	3761520.65	35.61986	(12110417)	439766.61	3761520.65	37.77516	(12110417)
439816.61	3761520.65	38.33713	(13101517)	439866.61	3761520.65	39.09056	(14100421)

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        439616.61   3761570.65       34.31075  (15031301)               439666.61
3761570.65       35.86982  (13112508)
        439716.61   3761570.65       36.69058  (14022807)               439766.61
3761570.65       39.97286  (12110417)
        439816.61   3761570.65       41.55723  (13101517)               439866.61
3761570.65       41.91145  (16092523)
        440451.14   3762893.83      121.81854  (16070206)               440501.14
3762893.83      114.48461  (16012217)
        440551.14   3762893.83      104.85616  (12070506)               440601.14
3762893.83       98.96815  (14090206)
        440651.14   3762893.83       93.90107  (16082606)               440701.14
3762893.83       88.95183  (16070606)
        440751.14   3762893.83       81.37005  (15070406)               440801.14
3762893.83       74.32245  (15100419)
        440851.14   3762893.83       64.25653  (13062920)               440451.14
3762943.83      113.85990  (16070206)
        440501.14   3762943.83      109.05091  (16101920)               440551.14
3762943.83      100.39573  (14063005)
        440601.14   3762943.83       97.66059  (15090821)               440651.14
3762943.83       90.35795  (15061306)
        440701.14   3762943.83       85.15309  (13060506)               440751.14
3762943.83       77.10741  (14052906)
        440801.14   3762943.83       74.84607  (15070406)               440851.14
3762943.83       71.13172  (15031520)
        441116.67   3763135.31       50.71235  (12072301)               441166.67
3763135.31       47.83413  (15082522)
        441116.67   3763185.31       50.40837  (15072905)               441166.67
3763185.31       47.09626  (16090403)
        441116.67   3763235.31       49.41451  (16092821)               441166.67
3763235.31       46.66114  (15072905)
        441116.67   3763285.31       50.00650  (15062901)               441166.67
3763285.31       46.38083  (16092821)
        441116.67   3763335.31       49.09598  (15082423)               441166.67
3763335.31       46.94112  (15062901)
        441116.67   3763385.31       47.85329  (13070101)               441166.67
3763385.31       46.64951  (15082423)
        441116.67   3763435.31       47.28919  (13100303)               441166.67
3763435.31       45.45670  (15070704)
        440433.43   3762815.13      127.71115  (16012217)               440483.43
3762815.13      117.03594  (14062506)
        440533.43   3762815.13      104.98424  (16111017)               440583.43
3762815.13       99.81379  (15101120)
        440633.43   3762815.13       90.82357  (13072106)               440683.43
3762815.13       83.96439  (15070606)
        440733.43   3762815.13       78.14173  (13062920)               440783.43
3762815.13       70.30182  (15011817)
        440833.43   3762815.13       68.41346  (16061306)               440883.43
3762815.13       62.37036  (13012217)
        440933.43   3762815.13       55.66210  (13051321)               440983.43
3762815.13       51.29292  (15092020)
        440433.43   3762865.13      126.72789  (16070206)               440483.43
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3762865.13      117.91459  (16012217)
        440533.43   3762865.13      106.09403  (12070506)                440583.43
3762865.13       99.22266  (16111017)
        440633.43   3762865.13       93.90881  (15101120)                440683.43
3762865.13       86.17978  (15070406)
        440733.43   3762865.13       81.63585  (15070606)                440783.43
3762865.13       73.14955  (13062920)
        440833.43   3762865.13       65.07501  (13062920)                440883.43
3762865.13       58.94835  (16061306)
        440933.43   3762865.13       52.76363  (16061306)                440983.43
3762865.13       49.24792  (13051321)
        441118.27   3762686.02       46.01172  (13090620)                441168.27
3762686.02       42.95148  (13090620)
        441118.27   3762736.02       44.91672  (15091021)                441168.27
3762736.02       41.77847  (16092820)
        441118.27   3762786.02       43.48183  (15062719)                441168.27
3762786.02       40.66535  (15091021)
        441118.27   3762836.02       42.30383  (15062719)                441168.27
3762836.02       39.98384  (15062719)
        440411.67   3762093.41      168.05449  (15012217)                440461.67
3762093.41      150.64384  (15101302)
        440511.67   3762093.41      135.37499  (13012317)                440561.67
3762093.41      120.96113  (15091323)
        440611.67   3762093.41      109.89058  (12012417)                440411.67
3762143.41      203.86477  (12012517)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	5.56289c	(14012124)	439943.36	3761716.33	6.51039	(15010624)
439170.17	3763092.51	4.28854	(12011324)	439220.17	3763092.51	4.48261	(12011324)
439270.17	3763092.51	4.49811	(12020424)	439320.17	3763092.51	5.14878	(12020424)
439370.17	3763092.51	5.79170	(12020424)	439420.17	3763092.51	6.33494	(12020424)
439470.17	3763092.51	6.73567	(12020424)	439520.17	3763092.51	7.04258	(12020424)
439570.17	3763092.51	7.13256	(12020424)	439620.17	3763092.51	7.05790	(12020424)
439670.17	3763092.51	6.59489	(12020424)	439720.17	3763092.51	5.74755	(12020424)
439770.17	3763092.51	6.01404m	(15011124)	439820.17	3763092.51	6.50531	(13112324)
439870.17	3763092.51	6.85425	(13112324)	439170.17	3763142.51	4.03622	(12011324)
439220.17	3763142.51	4.28457	(12020424)	439270.17	3763142.51	4.83108	(12020424)
439320.17	3763142.51	5.43171	(12020424)	439370.17	3763142.51	5.94795	(12020424)

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        439420.17   3763142.51        6.29498  (12020424)              439470.17
3763142.51        6.61860  (12020424)
        439520.17   3763142.51        6.68678  (12020424)              439570.17
3763142.51        6.41788  (12020424)
        439620.17   3763142.51        6.00106  (12020424)              439670.17
3763142.51        5.30101  (12020424)
        439720.17   3763142.51        5.29559m (15011124)              439770.17
3763142.51        5.76594m (15011124)
        439820.17   3763142.51        6.07420  (13112324)              439870.17
3763142.51        6.25036  (13112324)
        439170.17   3763192.51        4.07983  (12020424)              439220.17
3763192.51        4.59012  (12020424)
        439270.17   3763192.51        5.06272  (12020424)              439320.17
3763192.51        5.54729  (12020424)
        439370.17   3763192.51        5.88876  (12020424)              439420.17
3763192.51        6.05495  (12020424)
        439470.17   3763192.51        6.11852  (12020424)              439520.17
3763192.51        5.93296  (12020424)
        439570.17   3763192.51        5.51789  (12020424)              439620.17
3763192.51        4.90734  (12020424)
        439670.17   3763192.51        4.69107m (15011124)              439720.17
3763192.51        5.18981m (15011124)
        439770.17   3763192.51        5.53182m (15011124)              439820.17
3763192.51        5.61761m (15011124)
        439870.17   3763192.51        5.66241  (13112324)              439170.17
3763242.51        4.35128  (12020424)
        439220.17   3763242.51        4.79039  (12020424)              439270.17
3763242.51        5.15756  (12020424)
        439320.17   3763242.51        5.46021  (12020424)              439370.17
3763242.51        5.62366  (12020424)
        439420.17   3763242.51        5.62795  (12020424)              439470.17
3763242.51        5.47279  (12020424)
        439520.17   3763242.51        5.10080  (12020424)              439570.17
3763242.51        4.55845  (12020424)
        439620.17   3763242.51        4.14539m (15011124)              439670.17
3763242.51        4.57054m (15011124)
        439720.17   3763242.51        4.95434m (15011124)              439770.17
3763242.51        5.16159m (15011124)
        439820.17   3763242.51        5.13454  (13112324)              439870.17
3763242.51        5.11414  (13112324)
        439170.17   3763292.51        4.54249  (12020424)              439220.17
3763292.51        4.92071  (12020424)
        439270.17   3763292.51        5.17174  (12020424)              439320.17
3763292.51        5.28281  (12020424)
        439370.17   3763292.51        5.23148  (12020424)              439420.17
3763292.51        5.08421  (12020424)
        439470.17   3763292.51        4.74831  (12020424)              439520.17
3763292.51        4.25035  (12020424)
        439570.17   3763292.51        3.77470m (15011124)              439620.17
3763292.51        4.13024m (15011124)
        439670.17   3763292.51        4.43761m (15011124)              439720.17
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
                                  INCLUDING SOURCE(S):   L0013572   , L0013573 , L0013574   , L0013575   , L0013576   ,
                 L0013577   , L0013578   , L0013579   , L0013580   , L0013581 , L0013582   , L0013583   , L0013584   ,
                 L0013585   , L0013586   , L0013587   , L0013588   , L0013589 , L0013590   , L0013591   , L0013592   ,
                 L0013593   , L0013594   , L0013595   , L0013596   , L0013597 , L0013598   , L0013599   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                      ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)
 -
        439320.17   3763342.51   4.89834 (12020424)   439370.17   3763342.51   4.71039 (12020424)
        439420.17   3763342.51   4.41521 (12020424)   439470.17   3763342.51   3.97865 (12020424)
        439520.17   3763342.51   3.45798m (15011124)   439570.17   3763342.51   3.76105m (15011124)
        439620.17   3763342.51   4.02312m (15011124)   439670.17   3763342.51   4.26350m (15011124)
        439720.17   3763342.51   4.40812m (15011124)   439770.17   3763342.51   4.41448m (15011124)
        439820.17   3763342.51   4.26561 (13112324)   439870.17   3763342.51   4.18296 (13112324)
        439170.17   3763392.51   4.55259 (12020424)   439220.17   3763392.51   4.64500 (12020424)
        439270.17   3763392.51   4.58165 (12020424)   439320.17

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3763392.51        4.43239  (12020424)
        439370.17   3763392.51        4.13492  (12020424)                439420.17
3763392.51        3.73382  (12020424)
        439470.17   3763392.51        3.23655  (12020424)                439520.17
3763392.51        3.43966m (15011124)
        439570.17   3763392.51        3.69607m (15011124)                439620.17
3763392.51        3.89683m (15011124)
        439670.17   3763392.51        4.07586m (15011124)                439720.17
3763392.51        4.09845m (15011124)
        439770.17   3763392.51        3.98532m (15011124)                439820.17
3763392.51        3.89872  (13112324)
        439870.17   3763392.51        3.79970  (13112324)                439170.17
3763442.51        4.36127  (12020424)
        439220.17   3763442.51        4.32129  (12020424)                439270.17
3763442.51        4.14431  (12020424)
        439320.17   3763442.51        3.87914  (12020424)                439370.17
3763442.51        3.51522  (12020424)
        439420.17   3763442.51        3.07401  (12020424)                439470.17
3763442.51        3.15503m (15011124)
        439520.17   3763442.51        3.38639m (15011124)                439570.17
3763442.51        3.60641m (15011124)
        439620.17   3763442.51        3.75799m (15011124)                439670.17
3763442.51        3.84939m (15011124)
        439720.17   3763442.51        3.80179m (15011124)                439770.17
3763442.51        3.62786  (13112324)
        439820.17   3763442.51        3.57088  (13112324)                439870.17
3763442.51        3.46422  (13112324)
        439203.20   3762911.16        4.14885  (12011324)                439253.20
3762911.16        4.48587  (12011324)
        439303.20   3762911.16        4.82911  (12011324)                439353.20
3762911.16        5.17157  (12011324)
        439403.20   3762911.16        5.48983  (12011324)                439453.20
3762911.16        5.76978  (12011324)
        439503.20   3762911.16        5.99505  (12011324)                439553.20
3762911.16        6.85398  (12020424)
        439203.20   3762961.16        4.15823  (12011324)                439253.20
3762961.16        4.46255  (12011324)
        439303.20   3762961.16        4.85917  (12011324)                439353.20
3762961.16        4.97919  (12011324)
        439403.20   3762961.16        5.11133  (12011324)                439453.20
3762961.16        5.56535  (12020424)
        439503.20   3762961.16        6.22836  (12020424)                439553.20
3762961.16        6.99713  (12020424)
        439203.20   3763011.16        4.35600  (12011324)                439253.20
3763011.16        4.60947  (12011324)
        439303.20   3763011.16        4.89159  (12011324)                439353.20
3763011.16        5.01462  (12011324)
        439403.20   3763011.16        5.20515  (12020424)                439453.20
3763011.16        5.95027  (12020424)
        439503.20   3763011.16        6.44942  (12020424)                439553.20
3763011.16        7.16758  (12020424)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439203.20	3763061.16	4.37530	(12011324)	439253.20	3763061.16	4.74558	(12011324)
439303.20	3763061.16	4.81439	(12011324)	439353.20	3763061.16	5.36900	(12020424)
439403.20	3763061.16	6.04724	(12020424)	439453.20	3763061.16	6.63395	(12020424)
439503.20	3763061.16	6.85680	(12020424)	439553.20	3763061.16	7.50083	(12020424)
439196.01	3762392.48	3.57531	(16020824)	439246.01	3762392.48	3.87015	(16020824)
439296.01	3762392.48	4.20430	(16020824)	439346.01	3762392.48	4.58625	(16020824)
439396.01	3762392.48	5.02530	(16020824)	439446.01	3762392.48	5.53192	(16020824)
439496.01	3762392.48	6.13033	(16020824)	439546.01	3762392.48	6.84173	(16020824)
439196.01	3762442.48	3.66953	(12122024)	439246.01	3762442.48	4.01253	(12122024)
439296.01	3762442.48	4.41007	(12122024)	439346.01	3762442.48	4.86882	(12122024)
439396.01	3762442.48	5.40538	(12122024)	439446.01	3762442.48	6.03825	(12122024)

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        439496.01   3762442.48        6.78939  (12122024)              439546.01
3762442.48        7.69126  (12122024)
        439196.01   3762492.48        4.08449  (12122024)              439246.01
3762492.48        4.47372  (12122024)
        439296.01   3762492.48        4.92448  (12122024)              439346.01
3762492.48        5.44661  (12122024)
        439396.01   3762492.48        6.05317  (12122024)              439446.01
3762492.48        6.76457  (12122024)
        439496.01   3762492.48        7.61003  (12122024)              439546.01
3762492.48        8.61475  (12122024)
        439196.01   3762542.48        4.45631  (12122024)              439246.01
3762542.48        4.87596  (12122024)
        439296.01   3762542.48        5.35850  (12122024)              439346.01
3762542.48        5.91135  (12122024)
        439396.01   3762542.48        6.55079  (12122024)              439446.01
3762542.48        7.28964  (12122024)
        439496.01   3762542.48        8.15210  (12122024)              439546.01
3762542.48        9.15366  (12122024)
        439196.01   3762592.48        4.73182  (12122024)              439246.01
3762592.48        5.15969  (12122024)
        439296.01   3762592.48        5.64164  (12122024)              439346.01
3762592.48        6.18525  (12122024)
        439396.01   3762592.48        6.80058  (12122024)              439446.01
3762592.48        7.49792  (12122024)
        439496.01   3762592.48        8.28782  (12122024)              439546.01
3762592.48        9.17462  (12122024)
        439196.01   3762642.48        4.87449  (12122024)              439246.01
3762642.48        5.27919  (12122024)
        439296.01   3762642.48        5.72651  (12122024)              439346.01
3762642.48        6.21847  (12122024)
        439396.01   3762642.48        6.76210  (12122024)              439446.01
3762642.48        7.35648  (12122024)
        439496.01   3762642.48        8.00086  (12122024)              439546.01
3762642.48        8.69183  (12122024)
        439196.01   3762692.48        4.87030  (12122024)              439246.01
3762692.48        5.22706  (12122024)
        439296.01   3762692.48        5.61113  (12122024)              439346.01
3762692.48        6.02206  (12122024)
        439396.01   3762692.48        6.45724  (12122024)              439446.01
3762692.48        6.91096  (12122024)
        439496.01   3762692.48        7.37483  (12122024)              439546.01
3762692.48        7.84209  (12122024)
        439196.01   3762742.48        4.72766  (12122024)              439246.01
3762742.48        5.02024  (12122024)
        439296.01   3762742.48        5.32269  (12122024)              439346.01
3762742.48        5.63373  (12122024)
        439396.01   3762742.48        5.94618  (12122024)              439446.01
3762742.48        6.25235  (12122024)
        439496.01   3762742.48        6.72622  (12011324)              439546.01
3762742.48        7.54359  (12011324)
        439196.01   3762792.48        4.47005  (12122024)              439246.01
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3762792.48        4.69170  (12122024)
        439296.01   3762792.48        4.90676  (12122024)               439346.01
3762792.48        5.11543  (12122024)
        439396.01   3762792.48        5.58409  (12011324)               439446.01
3762792.48        6.18628  (12011324)
        439496.01   3762792.48        6.81656  (12011324)               439546.01
3762792.48        7.46276  (12011324)
        439196.01   3762842.48        4.12917  (12122024)               439246.01
3762842.48        4.30027  (12011324)
        439296.01   3762842.48        4.72914  (12011324)               439346.01
3762842.48        5.18649  (12011324)
        439396.01   3762842.48        5.66366  (12011324)               439446.01
3762842.48        6.14930  (12011324)
        439496.01   3762842.48        6.61979  (12011324)               439546.01
3762842.48        7.05496  (12011324)
        439573.31   3762470.54        8.85003  (12122024)               439623.31
3762470.54       10.16200  (12122024)
        439673.31   3762470.54       11.77265  (12122024)               439723.31
3762470.54       13.77482  (12122024)
        439773.31   3762470.54       16.30395  (12122024)               439823.31
3762470.54       19.53657  (12122024)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:56:46

                                    PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439873.31   3762470.54       23.75579  (12122024)               439573.31
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3762520.54        9.60511  (12122024)
        439623.31   3762520.54       10.93280  (12122024)                439673.31
3762520.54       12.52239  (12122024)
        439723.31   3762520.54       14.43002  (12122024)                439773.31
3762520.54       16.72478  (12122024)
        439823.31   3762520.54       19.48346  (12122024)                439873.31
3762520.54       22.81728  (12122024)
        439573.31   3762570.54        9.80641  (12122024)                439623.31
3762570.54       10.97814  (12122024)
        439673.31   3762570.54       12.31199  (12122024)                439723.31
3762570.54       13.82007  (12122024)
        439773.31   3762570.54       15.50567  (12122024)                439823.31
3762570.54       17.35328  (12122024)
        439873.31   3762570.54       19.30032  (12122024)                439573.31
3762620.54        9.41632  (12122024)
        439623.31   3762620.54       10.30432  (12122024)                439673.31
3762620.54       11.24820  (12122024)
        439723.31   3762620.54       12.22565  (12122024)                439773.31
3762620.54       13.39939  (12011324)
        439823.31   3762620.54       15.73415  (12011324)                439873.31
3762620.54       18.26107  (12011324)
        439573.31   3762670.54        8.56279  (12122024)                439623.31
3762670.54        9.12679  (12122024)
        439673.31   3762670.54       10.11593  (12011324)                439723.31
3762670.54       11.58767  (12011324)
        439773.31   3762670.54       13.14733  (12011324)                439823.31
3762670.54       14.69354  (12011324)
        439873.31   3762670.54       16.83288  (12020424)                439152.35
3761448.92        2.99714  (16122724)
        439202.35   3761448.92        3.02582  (16122724)                439252.35
3761448.92        3.02570  (16122724)
        439302.35   3761448.92        3.21493  (15031324)                439352.35
3761448.92        3.42105  (15031324)
        439402.35   3761448.92        3.59736  (15031324)                439452.35
3761448.92        3.73074  (15031324)
        439502.35   3761448.92        3.82136  (15031324)                439552.35
3761448.92        3.84197  (15031324)
        439152.35   3761498.92        3.16093  (16122724)                439202.35
3761498.92        3.24549  (16122724)
        439252.35   3761498.92        3.30307  (16122724)                439302.35
3761498.92        3.30040  (16122724)
        439352.35   3761498.92        3.50092  (15031324)                439402.35
3761498.92        3.73028  (15031324)
        439452.35   3761498.92        3.92403  (15031324)                439502.35
3761498.92        4.08465  (15031324)
        439552.35   3761498.92        4.17413  (15031324)                439152.35
3761548.92        3.28997  (16122724)
        439202.35   3761548.92        3.42103  (16122724)                439252.35
3761548.92        3.52917  (16122724)
        439302.35   3761548.92        3.58527  (16122724)                439352.35
3761548.92        3.59028  (16122724)
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3

439402.35	3761548.92	3.81331	(15031324)	439452.35	3761548.92	4.08076	(15031324)
439502.35	3761548.92	4.30937	(15031324)	439552.35	3761548.92	4.48506	(15031324)
439152.35	3761598.92	3.38129	(16122724)	439202.35	3761598.92	3.55326	(16122724)
439252.35	3761598.92	3.71450	(16122724)	439302.35	3761598.92	3.84167	(16122724)
439352.35	3761598.92	3.91473	(16122724)	439402.35	3761598.92	3.94607	(16122724)
439452.35	3761598.92	4.19496	(15031324)	439502.35	3761598.92	4.50029	(15031324)
439552.35	3761598.92	4.77327	(15031324)	439152.35	3761648.92	3.43360	(16122724)
439202.35	3761648.92	3.64823	(16122724)	439252.35	3761648.92	3.86173	(16122724)
439302.35	3761648.92	4.05553	(16122724)	439352.35	3761648.92	4.20967	(16122724)
439402.35	3761648.92	4.32373	(16122724)	439452.35	3761648.92	4.36896	(16122724)
439502.35	3761648.92	4.64772	(15031324)	439552.35	3761648.92	5.01956	(15031324)
439152.35	3761698.92	3.66072	(14122624)	439202.35	3761698.92	3.76026	(14122624)
439252.35	3761698.92	3.94867	(16122724)	439302.35	3761698.92	4.20393	(16122724)
439352.35	3761698.92	4.44476	(16122724)	439402.35	3761698.92	4.65561	(16122724)

**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	4.78666	(16122724)	439502.35	3761698.92	4.86954	(16122724)
439552.35	3761698.92	5.18821	(15031324)	439152.35	3761748.92	3.85331	(14122624)
439202.35	3761748.92	4.01831	(14122624)	439252.35	3761748.92	4.15083	(14122624)
439302.35	3761748.92	4.30092	(16122724)	439352.35	3761748.92	4.60388	(16122724)
439402.35	3761748.92	4.89605	(16122724)	439452.35	3761748.92	5.14396	(16122724)
439502.35	3761748.92	5.32809	(16122724)	439552.35	3761748.92	5.45049	(16122724)
439152.35	3761798.92	3.98225	(14122624)	439202.35	3761798.92	4.21303	(14122624)
439252.35	3761798.92	4.42400	(14122624)	439302.35	3761798.92	4.63520	(14122624)
439352.35	3761798.92	4.79521	(14122624)	439402.35	3761798.92	5.06761	(16122724)
439452.35	3761798.92	5.43490	(16122724)	439502.35	3761798.92	5.73463	(16122724)
439552.35	3761798.92	6.01286	(16122724)	439152.35	3761848.92	4.03773	(14122624)
439202.35	3761848.92	4.32121	(14122624)	439252.35	3761848.92	4.59633	(14122624)
439302.35	3761848.92	4.88321	(14122624)	439352.35	3761848.92	5.13896	(14122624)
439402.35	3761848.92	5.40804	(14122624)	439452.35	3761848.92	5.62650	(16122724)
439502.35	3761848.92	6.04284	(16122724)	439552.35	3761848.92	6.48066	(16122724)
439152.35	3761898.92	4.01734	(14122624)	439202.35	3761898.92	4.34008	(14122624)
439252.35	3761898.92	4.67216	(14122624)	439302.35	3761898.92	5.04892	(14122624)
439352.35	3761898.92	5.41057	(14122624)	439402.35	3761898.92	5.77029	(14122624)
439452.35	3761898.92	6.14131	(14122624)	439502.35	3761898.92	6.45325	(14122624)
439552.35	3761898.92	6.86182	(16122724)	439152.35	3761948.92	3.91388	(14122624)
439202.35	3761948.92	4.26297	(14122624)	439252.35	3761948.92	4.63545	(14122624)
439302.35	3761948.92	5.07646	(14122624)	439352.35	3761948.92	5.53023	(14122624)
439402.35	3761948.92	5.99096	(14122624)	439452.35			

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3761948.92        6.50361  (14122624)
        439502.35   3761948.92        7.00020  (14122624)                439552.35
3761948.92        7.46662  (14122624)
        439152.35   3761998.92        3.84592  (14042924)                439202.35
3761998.92        4.09540  (14122624)
        439252.35   3761998.92        4.48999  (14122624)                439302.35
3761998.92        4.96947  (14122624)
        439352.35   3761998.92        5.49199  (14122624)                439402.35
3761998.92        6.03231  (14122624)
        439452.35   3761998.92        6.64402  (14122624)                439502.35
3761998.92        7.29344  (14122624)
        439552.35   3761998.92        7.97454  (14122624)                439152.35
3762048.92        3.83022  (14042924)
        439202.35   3762048.92        4.12534  (14042924)                439252.35
3762048.92        4.44413  (14042924)
        439302.35   3762048.92        4.79249  (14042924)                439352.35
3762048.92        5.29036  (14122624)
        439402.35   3762048.92        5.89040  (14122624)                439452.35
3762048.92        6.58302  (14122624)
        439502.35   3762048.92        7.35494  (14122624)                439552.35
3762048.92        8.20424  (14122624)
        439616.61   3761420.65        3.55298  (15031324)                439666.61
3761420.65        3.59222  (13010224)
        439716.61   3761420.65        3.57618  (13010224)                439766.61
3761420.65        3.65164  (16121624)
        439816.61   3761420.65        3.78191  (16121624)                439866.61
3761420.65        3.79153  (16121624)
        439616.61   3761470.65        3.94354  (15031324)                439666.61
3761470.65        3.83561  (15031324)
        439716.61   3761470.65        3.89228  (13010224)                439766.61
3761470.65        3.84941  (15010624)
        439816.61   3761470.65        4.03443  (16121624)                439866.61
3761470.65        4.12563  (16121624)
        439616.61   3761520.65        4.35250  (15031324)                439666.61
3761520.65        4.29479  (15031324)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:56:46

                                   PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
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L0013593 , L0013594 , L0013595 , L0013596 , L0013597
, L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	4.19713	(13010224)	439766.61	3761520.65	4.23101	(13010224)
439816.61	3761520.65	4.29607	(15010624)	439866.61	3761520.65	4.47698	(16121624)
439616.61	3761570.65	4.77554	(15031324)	439666.61	3761570.65	4.79129	(15031324)
439716.61	3761570.65	4.70554	(15031324)	439766.61	3761570.65	4.63284	(13010224)
439816.61	3761570.65	4.60238	(13010224)	439866.61	3761570.65	4.82986	(16121624)
440451.14	3762893.83	8.24378	(16101624)	440501.14	3762893.83	8.53419m	(16031424)
440551.14	3762893.83	9.36107	(16082624)	440601.14	3762893.83	10.16406	(13102424)
440651.14	3762893.83	11.58349	(13102424)	440701.14	3762893.83	12.01065	(16030624)
440751.14	3762893.83	11.66817	(16030624)	440801.14	3762893.83	10.70278	(16030624)
440851.14	3762893.83	9.32368m	(16031424)	440451.14	3762943.83	7.30219	(14013024)
440501.14	3762943.83	7.48872	(15032224)	440551.14	3762943.83	8.02097	(16082624)
440601.14	3762943.83	8.86331	(16082624)	440651.14	3762943.83	9.73927	(13102424)
440701.14	3762943.83	10.53952	(13102424)	440751.14	3762943.83	10.40866	(16030624)
440801.14	3762943.83	10.26790	(16030624)	440851.14	3762943.83	9.60049	(16030624)
441116.67	3763135.31	5.72979	(12120224)	441166.67	3763135.31	5.83337	(12120224)
441116.67	3763185.31	5.58846	(13102424)	441166.67	3763185.31	5.13763	(12120224)
441116.67	3763235.31	5.67011	(13102424)	441166.67	3763235.31	5.11361	(16030624)
441116.67	3763285.31	5.71613	(13102424)	441166.67	3763285.31	5.22298	(13102424)
441116.67	3763335.31	5.60788	(13102424)	441166.67	3763335.31	5.26664	(13102424)

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        441116.67   3763385.31        5.37879  (13102424)               441166.67
3763385.31        5.21318  (13102424)
        441116.67   3763435.31        5.07663  (13102424)               441166.67
3763435.31        5.02747  (13102424)
        440433.43   3762815.13       10.36617  (16101624)               440483.43
3762815.13       10.54696m (16031424)
        440533.43   3762815.13       11.65330  (13021924)               440583.43
3762815.13       13.12368  (16030624)
        440633.43   3762815.13       13.74853  (16030624)               440683.43
3762815.13       13.28779  (16030624)
        440733.43   3762815.13       12.31571  (16030624)               440783.43
3762815.13       11.62972m (16031424)
        440833.43   3762815.13       11.57135  (14032624)               440883.43
3762815.13       11.53251  (14032624)
        440933.43   3762815.13       10.89266  (14032624)               440983.43
3762815.13       10.16152  (14032624)
        440433.43   3762865.13        9.15684  (16101624)               440483.43
3762865.13        8.95144  (15022824)
        440533.43   3762865.13        9.39989m (16031424)               440583.43
3762865.13       10.39351  (16030624)
        440633.43   3762865.13       11.88567  (16030624)               440683.43
3762865.13       12.26841  (16030624)
        440733.43   3762865.13       11.93962  (16030624)               440783.43
3762865.13       10.82859  (16030624)
        440833.43   3762865.13       10.02668m (16031424)               440883.43
3762865.13        9.58475  (14032624)
        440933.43   3762865.13        9.53806  (14032624)               440983.43
3762865.13        9.31833  (14032624)
        441118.27   3762686.02        8.24818  (13040124)               441168.27
3762686.02        7.57909  (13040124)
        441118.27   3762736.02        7.86859  (13040124)               441168.27
3762736.02        7.37099  (13040124)
        441118.27   3762786.02        8.09847  (14032624)               441168.27
3762786.02        7.27499  (14032624)
        441118.27   3762836.02        8.13284  (14032624)               441168.27
3762836.02        7.45195  (14032624)
        440411.67   3762093.41       26.13586  (12010924)               440461.67
3762093.41       23.70395  (14110524)
        440511.67   3762093.41       19.27606  (14110524)               440561.67
3762093.41       15.46486  (14110424)
        440611.67   3762093.41       12.65944  (14110424)               440411.67
3762143.41       33.42308  (14110524)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       21:56:46

                                  PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                             *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: P2ONSITE ***
                                INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_10   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440461.67   3762143.41   27.32143 (14110524)   440511.67
3762143.41   21.64766 (14110424)
        440561.67   3762143.41   17.26460 (14110424)   440611.67
3762143.41   15.65591 (14091924)
        440406.61   3762008.86   19.93750 (12010924)   440456.61
3762008.86   17.65219 (14110524)
        440506.61   3762008.86   16.44464 (14110524)   440556.61
3762008.86   14.00210 (14110524)
        440606.61   3762008.86   11.29889 (14110524)   440656.61
3762008.86   9.41808 (14110424)
        440706.61   3762008.86   8.18989 (13011624)   440756.61
3762008.86   8.01818 (15013124)
        440806.61   3762008.86   7.75696 (14091924)   440856.61
3762008.86   7.90408 (14091924)
        440906.61   3762008.86   7.93084b (14072524)   440956.61
3762008.86   7.73951b (14072524)
        441006.61   3762008.86   7.42552b (14072524)   441056.61
3762008.86   7.01478b (14072524)
        441106.61   3762008.86   6.58022b (14072524)   441156.61
3762008.86   6.13405b (14072524)
        440406.61   3762058.86   23.69703 (12010924)   440456.61
3762058.86   21.33827 (14110524)
        440506.61   3762058.86   18.49319 (14110524)   440556.61
3762058.86   14.81428 (14110524)
        440606.61   3762058.86   12.14396 (14110424)   440656.61
3762058.86   10.28341 (15013124)
        440706.61   3762058.86   9.91031 (15013124)   440756.61
3762058.86   9.88539 (14091924)
        440806.61   3762058.86   9.85640b (14072524)   440856.61
3762058.86   9.64869b (14072524)
        440906.61   3762058.86   9.24763b (14072524)   440956.61

3762058.86 8.69939b (14072524)
  441006.61 3762058.86 8.08799b (14072524) 441056.61
3762058.86 7.46456b (14072524)
  441106.61 3762058.86 6.85674b (14072524) 441156.61
3762058.86 6.28397b (14072524)
  440191.38 3762138.44 35.16946m (13010324) 440241.38
3762138.44 38.02620 (16021524)
  440291.38 3762138.44 40.61384c (14012124) 440341.38
3762138.44 38.93699 (12010924)
  440191.38 3762188.44 49.31128 (14120224) 440241.38
3762188.44 54.02668m (13010324)
  440291.38 3762188.44 57.96147c (14012124) 440341.38
3762188.44 53.52754 (12010924)
  440191.38 3762238.44 76.79447 (14120224) 440241.38
3762238.44 86.77540m (13010324)
  440291.38 3762238.44 91.14973 (12010924) 440341.38
3762238.44 75.01427 (12010924)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 ,
  L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	5.26633c	(14012124)	439943.36	3761716.33	6.19670	(13121424)
439170.17	3763092.51	4.24814	(12011324)	439220.17	3763092.51	4.45455	(12011324)
439270.17	3763092.51	4.48577	(12011324)	439320.17	3763092.51	5.07296	(12020424)
439370.17	3763092.51	5.69972	(12020424)	439420.17	3763092.51	6.27788	(12020424)
439470.17	3763092.51	6.55171	(12020424)	439520.17			

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3763092.51        6.88568  (12020424)
        439570.17   3763092.51        7.14423  (12020424)                439620.17
3763092.51        7.16524  (12020424)
        439670.17   3763092.51        6.84455  (12020424)                439720.17
3763092.51        6.13634  (12020424)
        439770.17   3763092.51        6.28028m (15011124)                439820.17
3763092.51        6.81088m (15011124)
        439870.17   3763092.51        7.18401  (13112324)                439170.17
3763142.51        4.09692  (12011324)
        439220.17   3763142.51        4.25594  (12020424)                439270.17
3763142.51        4.74972  (12020424)
        439320.17   3763142.51        5.36824  (12020424)                439370.17
3763142.51        5.89022  (12020424)
        439420.17   3763142.51        6.20907  (12020424)                439470.17
3763142.51        6.62433  (12020424)
        439520.17   3763142.51        6.74608  (12020424)                439570.17
3763142.51        6.58793  (12020424)
        439620.17   3763142.51        6.19835  (12020424)                439670.17
3763142.51        5.62752  (12020424)
        439720.17   3763142.51        5.50401m (15011124)                439770.17
3763142.51        6.01778m (15011124)
        439820.17   3763142.51        6.33916m (15011124)                439870.17
3763142.51        6.53618  (13112324)
        439170.17   3763192.51        4.03311  (12020424)                439220.17
3763192.51        4.52726  (12020424)
        439270.17   3763192.51        4.99613  (12020424)                439320.17
3763192.51        5.47667  (12020424)
        439370.17   3763192.51        5.83756  (12020424)                439420.17
3763192.51        6.04462  (12020424)
        439470.17   3763192.51        6.15045  (12020424)                439520.17
3763192.51        6.02302  (12020424)
        439570.17   3763192.51        5.66912  (12020424)                439620.17
3763192.51        5.11104  (12020424)
        439670.17   3763192.51        4.85704m (15011124)                439720.17
3763192.51        5.39203m (15011124)
        439770.17   3763192.51        5.76183m (15011124)                439820.17
3763192.51        5.85938m (15011124)
        439870.17   3763192.51        5.90408  (13112324)                439170.17
3763242.51        4.32427  (12020424)
        439220.17   3763242.51        4.76727  (12020424)                439270.17
3763242.51        5.15063  (12020424)
        439320.17   3763242.51        5.47948  (12020424)                439370.17
3763242.51        5.68157  (12020424)
        439420.17   3763242.51        5.73315  (12020424)                439470.17
3763242.51        5.62925  (12020424)
        439520.17   3763242.51        5.30388  (12020424)                439570.17
3763242.51        4.79396  (12020424)
        439620.17   3763242.51        4.27944m (15011124)                439670.17
3763242.51        4.73382m (15011124)
        439720.17   3763242.51        5.14204m (15011124)                439770.17
3763242.51        5.36303m (15011124)
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        439820.17   3763242.51        5.34253  (13112324)               439870.17
3763242.51        5.31417  (13112324)
        439170.17   3763292.51        4.51268  (12020424)               439220.17
3763292.51        4.90190  (12020424)
        439270.17   3763292.51        5.17791  (12020424)               439320.17
3763292.51        5.32469  (12020424)
        439370.17   3763292.51        5.31584  (12020424)               439420.17
3763292.51        5.21473  (12020424)
        439470.17   3763292.51        4.92227  (12020424)               439520.17
3763292.51        4.45665  (12020424)
        439570.17   3763292.51        3.88434m (15011124)               439620.17
3763292.51        4.26465m (15011124)
        439670.17   3763292.51        4.59225m (15011124)               439720.17
3763292.51        4.86735m (15011124)
        439770.17   3763292.51        4.98651m (15011124)               439820.17
3763292.51        4.85895  (13112324)
        439870.17   3763292.51        4.78421  (13112324)               439170.17
3763342.51        4.59163  (12020424)
        439220.17   3763342.51        4.85503  (12020424)               439270.17
3763342.51        4.96030  (12020424)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        21:56:46

                                   PAGE  79
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                        ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439320.17   3763342.51        4.96665  (12020424)               439370.17
3763342.51        4.81847  (12020424)
        439420.17   3763342.51        4.56231  (12020424)               439470.17
3763342.51        4.15704  (12020424)
        439520.17   3763342.51        3.62892  (12020424)               439570.17
3763342.51        3.87356m (15011124)
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        439620.17   3763342.51        4.15294m (15011124)               439670.17
3763342.51        4.40522m (15011124)
        439720.17   3763342.51        4.55389m (15011124)               439770.17
3763342.51        4.55520m (15011124)
        439820.17   3763342.51        4.41647  (13112324)               439870.17
3763342.51        4.31229  (13112324)
        439170.17   3763392.51        4.54628  (12020424)               439220.17
3763392.51        4.66709  (12020424)
        439270.17   3763392.51        4.63733  (12020424)               439320.17
3763392.51        4.52595  (12020424)
        439370.17   3763392.51        4.26266  (12020424)               439420.17
3763392.51        3.89135  (12020424)
        439470.17   3763392.51        3.41116  (12020424)               439520.17
3763392.51        3.53499m (15011124)
        439570.17   3763392.51        3.80729m (15011124)               439620.17
3763392.51        4.01817m (15011124)
        439670.17   3763392.51        4.20195m (15011124)               439720.17
3763392.51        4.22139m (15011124)
        439770.17   3763392.51        4.09778m (15011124)               439820.17
3763392.51        4.02385  (13112324)
        439870.17   3763392.51        3.90073  (13112324)               439170.17
3763442.51        4.37656  (12020424)
        439220.17   3763442.51        4.36808  (12020424)               439270.17
3763442.51        4.22320  (12020424)
        439320.17   3763442.51        3.99008  (12020424)               439370.17
3763442.51        3.65315  (12020424)
        439420.17   3763442.51        3.22897  (12020424)               439470.17
3763442.51        3.23640m (15011124)
        439520.17   3763442.51        3.48226m (15011124)               439570.17
3763442.51        3.71245m (15011124)
        439620.17   3763442.51        3.86796m (15011124)               439670.17
3763442.51        3.95788m (15011124)
        439720.17   3763442.51        3.90282m (15011124)               439770.17
3763442.51        3.74634  (13112324)
        439820.17   3763442.51        3.67279  (13112324)               439870.17
3763442.51        3.54135  (13112324)
        439203.20   3762911.16        4.11707  (12011324)               439253.20
3762911.16        4.46821  (12011324)
        439303.20   3762911.16        4.83335  (12011324)               439353.20
3762911.16        5.20709  (12011324)
        439403.20   3762911.16        5.56837  (12011324)               439453.20
3762911.16        5.90401  (12011324)
        439503.20   3762911.16        6.19703  (12011324)               439553.20
3762911.16        6.86690  (12020424)
        439203.20   3762961.16        4.15016  (12011324)               439253.20
3762961.16        4.44204  (12011324)
        439303.20   3762961.16        4.72680  (12011324)               439353.20
3762961.16        4.99796  (12011324)
        439403.20   3762961.16        5.23897  (12011324)               439453.20
3762961.16        5.49058  (12020424)
        439503.20   3762961.16        6.23171  (12020424)               439553.20
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3762961.16 6.98039 (12020424)
  439203.20 3763011.16 4.34959 (12011324) 439253.20
3763011.16 4.66249 (12011324)
  439303.20 3763011.16 4.94857 (12011324) 439353.20
3763011.16 5.18394 (12011324)
  439403.20 3763011.16 5.06330 (12020424) 439453.20
3763011.16 5.77698 (12020424)
  439503.20 3763011.16 6.29661 (12020424) 439553.20
3763011.16 7.09559 (12020424)
  439203.20 3763061.16 4.42465 (12011324) 439253.20
3763061.16 4.75139 (12011324)
  439303.20 3763061.16 4.82516 (12011324) 439353.20
3763061.16 5.31522 (12020424)
  439403.20 3763061.16 5.92168 (12020424) 439453.20
3763061.16 6.45020 (12020424)
  439503.20 3763061.16 6.85214 (12020424) 439553.20
3763061.16 7.35634 (12020424)
  439196.01 3762392.48 3.72459 (16020824) 439246.01
3762392.48 4.03891 (16020824)
  439296.01 3762392.48 4.39574 (16020824) 439346.01
3762392.48 4.80449 (16020824)
  439396.01 3762392.48 5.27534 (16020824) 439446.01
3762392.48 5.81949 (16020824)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 ,
L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	6.46500	(16020824)	439546.01	3762392.48	7.23542	(16020824)
439196.01	3762442.48	3.58766	(12122024)	439246.01			

3762442.48 3.91886 (12122024)
439296.01 3762442.48 4.30284 (12122024) 439346.01
3762442.48 4.74492 (12122024)
439396.01 3762442.48 5.26189 (12122024) 439446.01
3762442.48 5.87142 (12122024)
439496.01 3762442.48 6.59447 (12122024) 439546.01
3762442.48 7.46297 (12122024)
439196.01 3762492.48 3.99219 (12122024) 439246.01
3762492.48 4.37095 (12122024)
439296.01 3762492.48 4.81054 (12122024) 439346.01
3762492.48 5.32045 (12122024)
439396.01 3762492.48 5.91362 (12122024) 439446.01
3762492.48 6.61105 (12122024)
439496.01 3762492.48 7.44498 (12122024) 439546.01
3762492.48 8.44042 (12122024)
439196.01 3762542.48 4.37277 (12122024) 439246.01
3762542.48 4.78728 (12122024)
439296.01 3762542.48 5.26628 (12122024) 439346.01
3762542.48 5.81681 (12122024)
439396.01 3762542.48 6.45818 (12122024) 439446.01
3762542.48 7.20367 (12122024)
439496.01 3762542.48 8.08303 (12122024) 439546.01
3762542.48 9.11326 (12122024)
439196.01 3762592.48 4.67628 (12122024) 439246.01
3762592.48 5.10863 (12122024)
439296.01 3762592.48 5.59809 (12122024) 439346.01
3762592.48 6.15352 (12122024)
439396.01 3762592.48 6.78858 (12122024) 439446.01
3762592.48 7.51698 (12122024)
439496.01 3762592.48 8.35475 (12122024) 439546.01
3762592.48 9.30922 (12122024)
439196.01 3762642.48 4.86009 (12122024) 439246.01
3762642.48 5.27911 (12122024)
439296.01 3762642.48 5.74468 (12122024) 439346.01
3762642.48 6.26194 (12122024)
439396.01 3762642.48 6.84291 (12122024) 439446.01
3762642.48 7.48834 (12122024)
439496.01 3762642.48 8.20399 (12122024) 439546.01
3762642.48 8.98764 (12122024)
439196.01 3762692.48 4.90203 (12122024) 439246.01
3762692.48 5.28054 (12122024)
439296.01 3762692.48 5.69370 (12122024) 439346.01
3762692.48 6.14133 (12122024)
439396.01 3762692.48 6.62252 (12122024) 439446.01
3762692.48 7.13820 (12122024)
439496.01 3762692.48 7.68263 (12122024) 439546.01
3762692.48 8.24803 (12122024)
439196.01 3762742.48 4.80213 (12122024) 439246.01
3762742.48 5.12130 (12122024)
439296.01 3762742.48 5.45844 (12122024) 439346.01
3762742.48 5.81148 (12122024)

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        439396.01   3762742.48        6.17562  (12122024)               439446.01
3762742.48        6.54482  (12122024)
        439496.01   3762742.48        6.90806  (12122024)               439546.01
3762742.48        7.54531  (12011324)
        439196.01   3762792.48        4.57938  (12122024)               439246.01
3762792.48        4.82991  (12122024)
        439296.01   3762792.48        5.08160  (12122024)               439346.01
3762792.48        5.33316  (12122024)
        439396.01   3762792.48        5.57843  (12122024)               439446.01
3762792.48        6.16931  (12011324)
        439496.01   3762792.48        6.84211  (12011324)               439546.01
3762792.48        7.55368  (12011324)
        439196.01   3762842.48        4.26421  (12122024)               439246.01
3762842.48        4.44392  (12122024)
        439296.01   3762842.48        4.68781  (12011324)               439346.01
3762842.48        5.16066  (12011324)
        439396.01   3762842.48        5.66437  (12011324)               439446.01
3762842.48        6.19082  (12011324)
        439496.01   3762842.48        6.72039  (12011324)               439546.01
3762842.48        7.23506  (12011324)
        439573.31   3762470.54        8.62628  (12122024)               439623.31
3762470.54        9.91821  (12122024)
        439673.31   3762470.54       11.51494  (12122024)               439723.31
3762470.54       13.51705  (12122024)
        439773.31   3762470.54       16.07932  (12122024)               439823.31
3762470.54       19.40783  (12122024)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        21:56:46

                                   PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        439873.31   3762470.54       23.86043  (12122024)                439573.31
3762520.54        9.50782  (12122024)
        439623.31   3762520.54       10.87353  (12122024)                439673.31
3762520.54       12.53430  (12122024)
        439723.31   3762520.54       14.56690  (12122024)                439773.31
3762520.54       17.07193  (12122024)
        439823.31   3762520.54       20.17346  (12122024)                439873.31
3762520.54       24.09532  (12122024)
        439573.31   3762570.54        9.90096  (12122024)                439623.31
3762570.54       11.17277  (12122024)
        439673.31   3762570.54       12.65809  (12122024)                439723.31
3762570.54       14.38717  (12122024)
        439773.31   3762570.54       16.39273  (12122024)                439823.31
3762570.54       18.69612  (12122024)
        439873.31   3762570.54       21.30301  (12122024)                439573.31
3762620.54        9.70389  (12122024)
        439623.31   3762620.54       10.73015  (12122024)                439673.31
3762620.54       11.85874  (12122024)
        439723.31   3762620.54       13.08105  (12122024)                439773.31
3762620.54       14.37463  (12122024)
        439823.31   3762620.54       16.09515  (12011324)                439873.31
3762620.54       19.09435  (12011324)
        439573.31   3762670.54        8.99140  (12122024)                439623.31
3762670.54        9.69886  (12122024)
        439673.31   3762670.54       10.41931  (12122024)                439723.31
3762670.54       11.75117  (12011324)
        439773.31   3762670.54       13.53786  (12011324)                439823.31
3762670.54       15.43278  (12011324)
        439873.31   3762670.54       17.27094  (12011324)                439152.35
3761448.92        2.86012  (16122724)
        439202.35   3761448.92        2.86205  (16122724)                439252.35
3761448.92        2.98426  (15031324)
        439302.35   3761448.92        3.17554  (15031324)                439352.35
3761448.92        3.34627  (15031324)
        439402.35   3761448.92        3.48591  (15031324)                439452.35
3761448.92        3.58347  (15031324)
        439502.35   3761448.92        3.64116  (15031324)                439552.35
3761448.92        3.63391  (15031324)
        439152.35   3761498.92        3.04600  (16122724)                439202.35
3761498.92        3.09846  (16122724)
        439252.35   3761498.92        3.12405  (16122724)                439302.35
3761498.92        3.24711  (15031324)
        439352.35   3761498.92        3.45880  (15031324)                439402.35
3761498.92        3.64670  (15031324)
        439452.35   3761498.92        3.79729  (15031324)                439502.35
3761498.92        3.91547  (15031324)
        439552.35   3761498.92        3.96603  (15031324)                439152.35
3761548.92        3.20466  (16122724)
        439202.35   3761548.92        3.30056  (16122724)                439252.35
3761548.92        3.37121  (16122724)
        439302.35   3761548.92        3.38966  (16122724)                439352.35
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3761548.92        3.51776  (15031324)
        439402.35   3761548.92        3.76760  (15031324)                439452.35
3761548.92        3.98643  (15031324)
        439502.35   3761548.92        4.16379  (15031324)                439552.35
3761548.92        4.28878  (15031324)
        439152.35   3761598.92        3.33101  (16122724)                439202.35
3761598.92        3.46755  (16122724)
        439252.35   3761598.92        3.58853  (16122724)                439302.35
3761598.92        3.67188  (16122724)
        439352.35   3761598.92        3.70016  (16122724)                439402.35
3761598.92        3.85305  (15031324)
        439452.35   3761598.92        4.14553  (15031324)                439502.35
3761598.92        4.39284  (15031324)
        439552.35   3761598.92        4.60412  (15031324)                439152.35
3761648.92        3.42048  (16122724)
        439202.35   3761648.92        3.60281  (16122724)                439252.35
3761648.92        3.77684  (16122724)
        439302.35   3761648.92        3.92433  (16122724)                439352.35
3761648.92        4.02694  (16122724)
        439402.35   3761648.92        4.08682  (16122724)                439452.35
3761648.92        4.25102  (15031324)
        439502.35   3761648.92        4.59404  (15031324)                439552.35
3761648.92        4.89602  (15031324)
        439152.35   3761698.92        3.51174  (14122624)                439202.35
3761698.92        3.69575  (16122724)
        439252.35   3761698.92        3.90997  (16122724)                439302.35
3761698.92        4.12122  (16122724)
        439352.35   3761698.92        4.30888  (16122724)                439402.35
3761698.92        4.45876  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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        439152.35   3761998.92        3.86872  (14122624)                439202.35
3761998.92        4.22017  (14122624)
        439252.35   3761998.92        4.60317  (14122624)                439302.35
3761998.92        5.06586  (14122624)
        439352.35   3761998.92        5.55996  (14122624)                439402.35
3761998.92        6.05560  (14122624)
        439452.35   3761998.92        6.60667  (14122624)                439502.35
3761998.92        7.17449  (14122624)
        439552.35   3761998.92        7.75074  (14122624)                439152.35
3762048.92        3.82544  (14042924)
        439202.35   3762048.92        4.10586  (14042924)                439252.35
3762048.92        4.45956  (14122624)
        439302.35   3762048.92        4.93026  (14122624)                439352.35
3762048.92        5.45678  (14122624)
        439402.35   3762048.92        6.03470  (14122624)                439452.35
3762048.92        6.69055  (14122624)
        439502.35   3762048.92        7.40387  (14122624)                439552.35
3762048.92        8.16642  (14122624)
        439616.61   3761420.65        3.34477  (13010224)                439666.61
3761420.65        3.39040  (13010224)
        439716.61   3761420.65        3.37737  (15010624)                439766.61
3761420.65        3.52592  (16121624)
        439816.61   3761420.65        3.59129  (16121624)                439866.61
3761420.65        3.65161m (13010324)
        439616.61   3761470.65        3.70209  (15031324)                439666.61
3761470.65        3.64089  (13010224)
        439716.61   3761470.65        3.65230  (13010224)                439766.61
3761470.65        3.73176  (15010624)
        439816.61   3761470.65        3.85813  (16121624)                439866.61
3761470.65        3.91107  (13121424)
        439616.61   3761520.65        4.09975  (15031324)                439666.61
3761520.65        4.01359  (15031324)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:56:46

                                    PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                    INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_10    IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	3.97185	(13010224)	439766.61	3761520.65	3.96040	(15010624)
439816.61	3761520.65	4.14008	(16121624)	439866.61	3761520.65	4.23531	(16121624)
439616.61	3761570.65	4.52187	(15031324)	439666.61	3761570.65	4.49365	(15031324)
439716.61	3761570.65	4.37417	(15031324)	439766.61	3761570.65	4.35441	(13010224)
439816.61	3761570.65	4.44475	(15010624)	439866.61	3761570.65	4.60704	(16121624)
440451.14	3762893.83	8.90284	(15022824)	440501.14	3762893.83	9.31202m	(16031424)
440551.14	3762893.83	9.90269	(12110924)	440601.14	3762893.83	11.29508	(13102424)
440651.14	3762893.83	12.25157	(16030624)	440701.14	3762893.83	12.23623	(16030624)
440751.14	3762893.83	11.28242	(16030624)	440801.14	3762893.83	10.28119	(12120224)
440851.14	3762893.83	9.80060	(12120224)	440451.14	3762943.83	7.73203	(15032224)
440501.14	3762943.83	7.95647	(16082624)	440551.14	3762943.83	8.72167	(16082624)
440601.14	3762943.83	9.77704	(13102424)	440651.14	3762943.83	10.53784	(13102424)
440701.14	3762943.83	10.86600	(16030624)	440751.14	3762943.83	10.52360	(16030624)
440801.14	3762943.83	10.05901	(16030624)	440851.14	3762943.83	9.22221	(12120224)
441116.67	3763135.31	6.11184	(12120224)	441166.67	3763135.31	6.12326	(12120224)
441116.67	3763185.31	5.36454	(12120224)	441166.67	3763185.31	5.47880	(12120224)
441116.67	3763235.31	5.47731	(13102424)	441166.67	3763235.31	4.87863	(13102424)
441116.67	3763285.31	5.60013	(13102424)	441166.67	3763285.31	5.04936	(13102424)
441116.67	3763335.31	5.57573	(13102424)	441166.67	3763335.31	5.15690	(13102424)
441116.67	3763385.31	5.42655	(13102424)	441166.67	3763385.31	5.16977	(13102424)
441116.67	3763435.31	5.19568	(13102424)	441166.67	3763435.31	5.05054	(13102424)
440433.43	3762815.13	11.34457	(16101624)	440483.43	3762815.13	12.07258	(13021924)
440533.43	3762815.13	13.40086	(16030624)	440583.43			

3762815.13   14.44461 (16030624)
        440633.43   3762815.13   14.03850 (16030624)   440683.43
3762815.13   12.96909 (16030624)
        440733.43   3762815.13   12.39997m (16031424)   440783.43
3762815.13   12.05458 (14032624)
        440833.43   3762815.13   12.12875 (14032624)   440883.43
3762815.13   11.67454 (14032624)
        440933.43   3762815.13   10.71718 (14032624)   440983.43
3762815.13   9.91405 (14032624)
        440433.43   3762865.13   9.51043 (16101624)   440483.43
3762865.13   10.05018m (16031424)
        440533.43   3762865.13   10.66190 (13021924)   440583.43
3762865.13   12.12674 (16030624)
        440633.43   3762865.13   13.00260 (16030624)   440683.43
3762865.13   12.83216 (16030624)
        440733.43   3762865.13   11.92862 (16030624)   440783.43
3762865.13   10.90032 (12120224)
        440833.43   3762865.13   10.29271 (12120224)   440883.43
3762865.13   10.08055 (14032624)
        440933.43   3762865.13   9.74750 (14032624)   440983.43
3762865.13   9.31333 (14032624)
        441118.27   3762686.02   8.14515m (12050224)   441168.27
3762686.02   7.83584m (12050224)
        441118.27   3762736.02   7.67942 (13040124)   441168.27
3762736.02   7.12665 (13040124)
        441118.27   3762786.02   7.51279 (14032624)   441168.27
3762786.02   6.82252 (13040124)
        441118.27   3762836.02   7.72476 (14032624)   441168.27
3762836.02   7.01351 (14032624)
        440411.67   3762093.41   23.86298 (14110524)   440461.67
3762093.41   21.42170 (14110524)
        440511.67   3762093.41   17.28770 (14110524)   440561.67
3762093.41   13.83326 (14110424)
        440611.67   3762093.41   11.40569 (14110424)   440411.67
3762143.41   30.13575 (14110524)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                    INCLUDING SOURCE(S):   L0013628   , L0013629
, L0013630   , L0013631   , L0013632   ,
                  L0013633   , L0013634   , L0013635   , L0013636   , L0013637
, L0013638   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	24.26724	(14110524)	440511.67	3762143.41	18.96046	(14110424)
440561.67	3762143.41	15.21421	(14110424)	440611.67	3762143.41	13.69449	(14091924)
440406.61	3762008.86	18.18806	(12010924)	440456.61	3762008.86	16.27319	(14110524)
440506.61	3762008.86	15.03885	(14110524)	440556.61	3762008.86	12.77101	(14110524)
440606.61	3762008.86	10.33648	(14110524)	440656.61	3762008.86	8.65748	(14110424)
440706.61	3762008.86	7.54331	(13011624)	440756.61	3762008.86	7.32793	(15013124)
440806.61	3762008.86	7.00883	(15013124)	440856.61	3762008.86	7.14927	(14091924)
440906.61	3762008.86	7.18869b	(14072524)	440956.61	3762008.86	7.05851b	(14072524)
441006.61	3762008.86	6.82049b	(14072524)	441056.61	3762008.86	6.49208b	(14072524)
441106.61	3762008.86	6.13843b	(14072524)	441156.61	3762008.86	5.76792b	(14072524)
440406.61	3762058.86	21.34658	(12010924)	440456.61	3762058.86	19.46471	(14110524)
440506.61	3762058.86	16.74326	(14110524)	440556.61	3762058.86	13.39415	(14110524)
440606.61	3762058.86	11.00689	(14110424)	440656.61	3762058.86	9.29791	(13011624)
440706.61	3762058.86	8.98974	(15013124)	440756.61	3762058.86	8.85332	(14091924)
440806.61	3762058.86	8.83666b	(14072524)	440856.61	3762058.86	8.71207b	(14072524)
440906.61	3762058.86	8.41963b	(14072524)	440956.61	3762058.86	7.99077b	(14072524)
441006.61	3762058.86	7.49676b	(14072524)	441056.61	3762058.86	6.98127b	(14072524)
441106.61	3762058.86	6.46825b	(14072524)	441156.61	3762058.86	5.97599b	(14072524)
440191.38	3762138.44	32.69978m	(13010324)	440241.38	3762138.44	34.93911	(16021524)
440291.38	3762138.44	36.58284c	(14012124)	440341.38	3762138.44	34.96178	(12010924)
440191.38	3762188.44	43.61597m	(13010324)	440241.38	3762188.44	47.46843	(16021524)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	0.10941b	(14090824)	439943.36	3761716.33	0.33795	(12122424)
439170.17	3763092.51	0.05531	(15113024)	439220.17	3763092.51	0.05726	(15113024)
439270.17	3763092.51	0.05853	(15113024)	439320.17	3763092.51	0.05871	(15113024)
439370.17	3763092.51	0.05771	(15113024)	439420.17	3763092.51	0.05544	(15113024)
439470.17	3763092.51	0.05179	(15113024)	439520.17	3763092.51	0.04669	(15113024)
439570.17	3763092.51	0.04139	(14120824)	439620.17	3763092.51	0.04120	(14120824)
439670.17	3763092.51	0.04050	(14120824)	439720.17	3763092.51	0.04227c	(14041424)
439770.17	3763092.51	0.06169c	(14041424)	439820.17	3763092.51	0.08465c	(14041424)
439870.17	3763092.51	0.10850c	(14041424)	439170.17	3763142.51	0.05004	(15113024)
439220.17	3763142.51	0.05046	(15113024)	439270.17	3763142.51	0.05017	(15113024)
439320.17	3763142.51	0.04882	(15113024)	439370.17	3763142.51	0.04647	(15113024)
439420.17	3763142.51	0.04314	(15113024)	439470.17			

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3763142.51        0.03863  (15113024)
        439520.17   3763142.51        0.03652  (14120824)               439570.17
3763142.51        0.03624  (14120824)
        439620.17   3763142.51        0.03554  (14120824)               439670.17
3763142.51        0.03433  (14120824)
        439720.17   3763142.51        0.04724c (14041424)               439770.17
3763142.51        0.06532c (14041424)
        439820.17   3763142.51        0.08509c (14041424)               439870.17
3763142.51        0.10370c (14041424)
        439170.17   3763192.51        0.04382  (15113024)               439220.17
3763192.51        0.04306  (15113024)
        439270.17   3763192.51        0.04162  (15113024)               439320.17
3763192.51        0.03926  (15113024)
        439370.17   3763192.51        0.03618  (15113024)               439420.17
3763192.51        0.03287  (14120824)
        439470.17   3763192.51        0.03268  (14120824)               439520.17
3763192.51        0.03224  (14120824)
        439570.17   3763192.51        0.03151  (14120824)               439620.17
3763192.51        0.03043  (14120824)
        439670.17   3763192.51        0.03670c (14041424)               439720.17
3763192.51        0.05083c (14041424)
        439770.17   3763192.51        0.06695c (14041424)               439820.17
3763192.51        0.08333c (14041424)
        439870.17   3763192.51        0.09719c (14041424)               439170.17
3763242.51        0.03723  (15113024)
        439220.17   3763242.51        0.03564  (15113024)               439270.17
3763242.51        0.03348  (15113024)
        439320.17   3763242.51        0.03067  (15113024)               439370.17
3763242.51        0.02983  (14120824)
        439420.17   3763242.51        0.02955  (14120824)               439470.17
3763242.51        0.02902  (14120824)
        439520.17   3763242.51        0.02826  (14120824)               439570.17
3763242.51        0.02723  (14120824)
        439620.17   3763242.51        0.02902c (14041424)               439670.17
3763242.51        0.04031c (14041424)
        439720.17   3763242.51        0.05338c (14041424)               439770.17
3763242.51        0.06727c (14041424)
        439820.17   3763242.51        0.08016c (14041424)               439870.17
3763242.51        0.08978c (14041424)
        439170.17   3763292.51        0.03075  (15113024)               439220.17
3763292.51        0.02858  (15113024)
        439270.17   3763292.51        0.02752  (14120824)               439320.17
3763292.51        0.02729  (14120824)
        439370.17   3763292.51        0.02693  (14120824)               439420.17
3763292.51        0.02636  (14120824)
        439470.17   3763292.51        0.02558  (14120824)               439520.17
3763292.51        0.02458  (14120824)
        439570.17   3763292.51        0.02338  (14120824)               439620.17
3763292.51        0.03220c (14041424)
        439670.17   3763292.51        0.04302c (14041424)               439720.17
3763292.51        0.05477c (14041424)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	0.02476	(14120824)	439370.17	3763342.51	0.02419	(14120824)
439420.17	3763342.51	0.02341	(14120824)	439470.17	3763342.51	0.02245	(14120824)
439520.17	3763342.51	0.02130	(14120824)	439570.17	3763342.51	0.02593c	(14041424)
439620.17	3763342.51	0.03490c	(14041424)	439670.17	3763342.51	0.04488c	(14041424)
439720.17	3763342.51	0.05514c	(14041424)	439770.17	3763342.51	0.06439c	(14041424)
439820.17	3763342.51	0.07138c	(14041424)	439870.17	3763342.51	0.07462c	(14041424)
439170.17	3763392.51	0.02386	(14120824)	439220.17	3763392.51	0.02346	(14120824)
439270.17	3763392.51	0.02296	(14120824)	439320.17	3763392.51	0.02232	(14120824)
439370.17	3763392.51	0.02158	(14120824)	439420.17	3763392.51	0.02065	(14120824)
439470.17	3763392.51	0.01957	(14120824)	439520.17	3763392.51	0.02105c	(14041424)
439570.17	3763392.51	0.02843c	(14041424)	439620.17	3763392.51	0.03693c	(14041424)
439670.17	3763392.51	0.04589c	(14041424)	439720.17			

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3763392.51        0.05461c (14041424)
        439770.17   3763392.51        0.06180c (14041424)               439820.17
3763392.51        0.06642c (14041424)
        439870.17   3763392.51        0.06742c (14041424)               439170.17
3763442.51        0.02200  (14120824)
        439220.17   3763442.51        0.02144  (14120824)               439270.17
3763442.51        0.02080  (14120824)
        439320.17   3763442.51        0.02004  (14120824)               439370.17
3763442.51        0.01917  (14120824)
        439420.17   3763442.51        0.01816  (14120824)               439470.17
3763442.51        0.01722c (14041424)
        439520.17   3763442.51        0.02334c (14041424)               439570.17
3763442.51        0.03047c (14041424)
        439620.17   3763442.51        0.03832c (14041424)               439670.17
3763442.51        0.04619c (14041424)
        439720.17   3763442.51        0.05330c (14041424)               439770.17
3763442.51        0.05862c (14041424)
        439820.17   3763442.51        0.06129c (14041424)               439870.17
3763442.51        0.06062c (14041424)
        439203.20   3762911.16        0.06974  (14010624)               439253.20
3762911.16        0.07320  (14010624)
        439303.20   3762911.16        0.07924  (15113024)               439353.20
3762911.16        0.08788  (15113024)
        439403.20   3762911.16        0.09604  (15113024)               439453.20
3762911.16        0.10331  (15113024)
        439503.20   3762911.16        0.10914  (15113024)               439553.20
3762911.16        0.11250  (15113024)
        439203.20   3762961.16        0.06458  (15113024)               439253.20
3762961.16        0.07109  (15113024)
        439303.20   3762961.16        0.07737  (15113024)               439353.20
3762961.16        0.08320  (15113024)
        439403.20   3762961.16        0.08809  (15113024)               439453.20
3762961.16        0.09139  (15113024)
        439503.20   3762961.16        0.09283  (15113024)               439553.20
3762961.16        0.09156  (15113024)
        439203.20   3763011.16        0.06347  (15113024)               439253.20
3763011.16        0.06809  (15113024)
        439303.20   3763011.16        0.07208  (15113024)               439353.20
3763011.16        0.07511  (15113024)
        439403.20   3763011.16        0.07706  (15113024)               439453.20
3763011.16        0.07707  (15113024)
        439503.20   3763011.16        0.07521  (15113024)               439553.20
3763011.16        0.07089  (15113024)
        439203.20   3763061.16        0.05993  (15113024)               439253.20
3763061.16        0.06255  (15113024)
        439303.20   3763061.16        0.06434  (15113024)               439353.20
3763061.16        0.06496  (15113024)
        439403.20   3763061.16        0.06428  (15113024)               439453.20
3763061.16        0.06204  (15113024)
        439503.20   3763061.16        0.05815  (15113024)               439553.20
3763061.16        0.05245  (15113024)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	0.17417	(14120124)	439546.01	3762392.48	0.20047	(14120124)
439196.01	3762442.48	0.07641	(14120124)	439246.01	3762442.48	0.08387	(14120124)
439296.01	3762442.48	0.09251	(14120124)	439346.01	3762442.48	0.10262	(14120124)
439396.01	3762442.48	0.11456	(14120124)	439446.01	3762442.48	0.12882	(14120124)
439496.01	3762442.48	0.14617	(14120124)	439546.01	3762442.48	0.16753	(14120124)
439196.01	3762492.48	0.07732	(16122624)	439246.01	3762492.48	0.08525	(16122624)
439296.01	3762492.48	0.09432	(16122624)	439346.01	3762492.48	0.10475	(16122624)
439396.01	3762492.48	0.11744	(12020624)	439446.01	3762492.48	0.13715	(12020624)
439496.01	3762492.48	0.16137	(12020624)	439546.01	3762492.48	0.19153	(12020624)
439196.01	3762542.48	0.08683	(12020624)	439246.01	3762542.48	0.09837	(12020624)
439296.01	3762542.48	0.11186	(12020624)	439346.01	3762542.48	0.12777	(12020624)
439396.01	3762542.48	0.14656	(12020624)	439446.01			

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3762542.48        0.16897  (12020624)
        439496.01   3762542.48        0.19570  (12020624)                439546.01
3762542.48        0.22806  (12020624)
        439196.01   3762592.48        0.10308  (12020624)                439246.01
3762592.48        0.11537  (12020624)
        439296.01   3762592.48        0.12949  (12020624)                439346.01
3762592.48        0.14566  (12020624)
        439396.01   3762592.48        0.16423  (12020624)                439446.01
3762592.48        0.18551  (12020624)
        439496.01   3762592.48        0.20980  (12020624)                439546.01
3762592.48        0.23775  (12020624)
        439196.01   3762642.48        0.11286  (12020624)                439246.01
3762642.48        0.12430  (12020624)
        439296.01   3762642.48        0.13704  (12020624)                439346.01
3762642.48        0.15103  (12020624)
        439396.01   3762642.48        0.16624  (12020624)                439446.01
3762642.48        0.18268  (12020624)
        439496.01   3762642.48        0.20016  (12020624)                439546.01
3762642.48        0.21867  (12020624)
        439196.01   3762692.48        0.11437  (12020624)                439246.01
3762692.48        0.12346  (12020624)
        439296.01   3762692.48        0.13292  (12020624)                439346.01
3762692.48        0.14271  (12020624)
        439396.01   3762692.48        0.15266  (12020624)                439446.01
3762692.48        0.16229  (12020624)
        439496.01   3762692.48        0.17119  (12020624)                439546.01
3762692.48        0.17896  (12020624)
        439196.01   3762742.48        0.10763  (12020624)                439246.01
3762742.48        0.11340  (12020624)
        439296.01   3762742.48        0.11888  (12020624)                439346.01
3762742.48        0.12383  (12020624)
        439396.01   3762742.48        0.12796  (12020624)                439446.01
3762742.48        0.13088  (12020624)
        439496.01   3762742.48        0.13395  (14010624)                439546.01
3762742.48        0.15089  (16010424)
        439196.01   3762792.48        0.09429  (12020624)                439246.01
3762792.48        0.09679  (12020624)
        439296.01   3762792.48        0.09834  (12020624)                439346.01
3762792.48        0.09891  (12020624)
        439396.01   3762792.48        0.10591  (14010624)                439446.01
3762792.48        0.11601  (16010424)
        439496.01   3762792.48        0.12833  (16010424)                439546.01
3762792.48        0.14224  (15113024)
        439196.01   3762842.48        0.07709  (12020624)                439246.01
3762842.48        0.07877  (14010624)
        439296.01   3762842.48        0.08567  (14010624)                439346.01
3762842.48        0.09206  (14010624)
        439396.01   3762842.48        0.10023  (16010424)                439446.01
3762842.48        0.10992  (15113024)
        439496.01   3762842.48        0.12257  (15113024)                439546.01
3762842.48        0.13452  (15113024)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	0.74378	(12020624)	439573.31	3762520.54	0.23560	(12020624)
439623.31	3762520.54	0.28050	(12020624)	439673.31	3762520.54	0.33699	(12020624)
439723.31	3762520.54	0.40867	(12020624)	439773.31	3762520.54	0.49951	(12020624)
439823.31	3762520.54	0.61425	(12020624)	439873.31	3762520.54	0.75634	(12020624)
439573.31	3762570.54	0.25622	(12020624)	439623.31	3762570.54	0.29562	(12020624)
439673.31	3762570.54	0.34189	(12020624)	439723.31	3762570.54	0.39609	(12020624)
439773.31	3762570.54	0.45795	(12020624)	439823.31	3762570.54	0.52533	(12020624)
439873.31	3762570.54	0.59233	(12020624)	439573.31	3762620.54	0.24368	(12020624)
439623.31	3762620.54	0.26945	(12020624)	439673.31	3762620.54	0.29633	(12020624)
439723.31	3762620.54	0.32310	(12020624)	439773.31	3762620.54	0.34729	(12020624)
439823.31	3762620.54	0.38687	(16010424)	439873.31	3762620.54	0.45940	(15113024)
439573.31	3762670.54	0.20452	(12020624)	439623.31			

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3762670.54        0.21470  (12020624)
        439673.31   3762670.54        0.22334  (16010424)                439723.31
3762670.54        0.25980  (16010424)
        439773.31   3762670.54        0.29887  (15113024)                439823.31
3762670.54        0.35113  (15113024)
        439873.31   3762670.54        0.39783  (15113024)                439152.35
3761448.92        0.07983c (12121724)
        439202.35   3761448.92        0.08091c (12121724)                439252.35
3761448.92        0.08161c (12121724)
        439302.35   3761448.92        0.08178c (12121724)                439352.35
3761448.92        0.08137c (12121724)
        439402.35   3761448.92        0.08027c (12121724)                439452.35
3761448.92        0.07848c (12121724)
        439502.35   3761448.92        0.07598c (12121724)                439552.35
3761448.92        0.07371  (12122424)
        439152.35   3761498.92        0.08106c (12121724)                439202.35
3761498.92        0.08281c (12121724)
        439252.35   3761498.92        0.08420c (12121724)                439302.35
3761498.92        0.08505c (12121724)
        439352.35   3761498.92        0.08534c (12121724)                439402.35
3761498.92        0.08501c (12121724)
        439452.35   3761498.92        0.08393c (12121724)                439502.35
3761498.92        0.08212c (12121724)
        439552.35   3761498.92        0.07947c (12121724)                439152.35
3761548.92        0.08166c (12121724)
        439202.35   3761548.92        0.08404c (12121724)                439252.35
3761548.92        0.08612c (12121724)
        439302.35   3761548.92        0.08771c (12121724)                439352.35
3761548.92        0.08883c (12121724)
        439402.35   3761548.92        0.08938c (12121724)                439452.35
3761548.92        0.08923c (12121724)
        439502.35   3761548.92        0.08826c (12121724)                439552.35
3761548.92        0.08643c (12121724)
        439152.35   3761598.92        0.08153c (12121724)                439202.35
3761598.92        0.08455c (12121724)
        439252.35   3761598.92        0.08734c (12121724)                439302.35
3761598.92        0.08979c (12121724)
        439352.35   3761598.92        0.09178c (12121724)                439402.35
3761598.92        0.09332c (12121724)
        439452.35   3761598.92        0.09420c (12121724)                439502.35
3761598.92        0.09430c (12121724)
        439552.35   3761598.92        0.09351c (12121724)                439152.35
3761648.92        0.08059c (12121724)
        439202.35   3761648.92        0.08427c (12121724)                439252.35
3761648.92        0.08782c (12121724)
        439302.35   3761648.92        0.09111c (12121724)                439352.35
3761648.92        0.09407c (12121724)
        439402.35   3761648.92        0.09664c (12121724)                439452.35
3761648.92        0.09867c (12121724)
        439502.35   3761648.92        0.10003c (12121724)                439552.35
3761648.92        0.10055c (12121724)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	0.10243c	(12121724)	439502.35	3761698.92	0.10521c	(12121724)
439552.35	3761698.92	0.10724c	(12121724)	439152.35	3761748.92	0.07608c	(12121724)
439202.35	3761748.92	0.08092c	(12121724)	439252.35	3761748.92	0.08583c	(12121724)
439302.35	3761748.92	0.09085c	(12121724)	439352.35	3761748.92	0.09581c	(12121724)
439402.35	3761748.92	0.10067c	(12121724)	439452.35	3761748.92	0.10529c	(12121724)
439502.35	3761748.92	0.10956c	(12121724)	439552.35	3761748.92	0.11337c	(12121724)
439152.35	3761798.92	0.07255c	(12121724)	439202.35	3761798.92	0.07781c	(12121724)
439252.35	3761798.92	0.08331c	(12121724)	439302.35	3761798.92	0.08907c	(12121724)
439352.35	3761798.92	0.09496c	(12121724)	439402.35	3761798.92	0.10098c	(12121724)
439452.35	3761798.92	0.10704c	(12121724)	439502.35	3761798.92	0.11296c	(12121724)
439552.35	3761798.92	0.11868c	(12121724)	439152.35	3761848.92	0.06824c	(12121724)
439202.35	3761848.92	0.07377c	(12121724)	439252.35			

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3761848.92        0.07968c (12121724)
        439302.35   3761848.92        0.08604c (12121724)               439352.35
3761848.92        0.09277c (12121724)
        439402.35   3761848.92        0.09994c (12121724)               439452.35
3761848.92        0.10738c (12121724)
        439502.35   3761848.92        0.11501c (12121724)               439552.35
3761848.92        0.12283c (12121724)
        439152.35   3761898.92        0.06316c (12121724)               439202.35
3761898.92        0.06886c (12121724)
        439252.35   3761898.92        0.07506c (12121724)               439302.35
3761898.92        0.08186c (12121724)
        439352.35   3761898.92        0.08928c (12121724)               439402.35
3761898.92        0.09733c (12121724)
        439452.35   3761898.92        0.10608c (12121724)               439502.35
3761898.92        0.11545c (12121724)
        439552.35   3761898.92        0.12534c (12121724)               439152.35
3761948.92        0.06261  (12010224)
        439202.35   3761948.92        0.06373  (12010224)               439252.35
3761948.92        0.06944c (12121724)
        439302.35   3761948.92        0.07654c (12121724)               439352.35
3761948.92        0.08440c (12121724)
        439402.35   3761948.92        0.09318c (12121724)               439452.35
3761948.92        0.10301c (12121724)
        439502.35   3761948.92        0.11454  (14112424)               439552.35
3761948.92        0.12581c (12121724)
        439152.35   3761998.92        0.06563  (12010224)               439202.35
3761998.92        0.06739  (12010224)
        439252.35   3761998.92        0.07154  (16012524)               439302.35
3761998.92        0.07603  (16012524)
        439352.35   3761998.92        0.08146c (13101424)               439402.35
3761998.92        0.08855c (13101424)
        439452.35   3761998.92        0.09894  (14112424)               439502.35
3761998.92        0.11524  (14112424)
        439552.35   3761998.92        0.13193  (14112424)               439152.35
3762048.92        0.07452  (14120124)
        439202.35   3762048.92        0.07759  (14120124)               439252.35
3762048.92        0.08067  (14120124)
        439302.35   3762048.92        0.08370  (14120124)               439352.35
3762048.92        0.08999  (16012524)
        439402.35   3762048.92        0.09697  (16012524)               439452.35
3762048.92        0.10413c (13101424)
        439502.35   3762048.92        0.11503c (13101424)               439552.35
3762048.92        0.12786  (14112424)
        439616.61   3761420.65        0.10949  (12122424)               439666.61
3761420.65        0.13439  (12122424)
        439716.61   3761420.65        0.15651  (12122424)               439766.61
3761420.65        0.17219  (12122424)
        439816.61   3761420.65        0.17807  (12122424)               439866.61
3761420.65        0.17214  (12122424)
        439616.61   3761470.65        0.10267  (12122424)               439666.61
3761470.65        0.13099  (12122424)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761470.65	0.15845	(12122424)	439766.61	3761470.65	0.18078	(12122424)
439816.61	3761470.65	0.19363	(12122424)	439866.61	3761470.65	0.19346	(12122424)
439616.61	3761520.65	0.09376	(12122424)	439666.61	3761520.65	0.12477	(12122424)
439716.61	3761520.65	0.15721	(12122424)	439766.61	3761520.65	0.18672	(12122424)
439816.61	3761520.65	0.20786	(12122424)	439866.61	3761520.65	0.21544	(12122424)
439616.61	3761570.65	0.08626c	(12121724)	439666.61	3761570.65	0.11563	(12122424)
439716.61	3761570.65	0.15242	(12122424)	439766.61	3761570.65	0.18913	(12122424)
439816.61	3761570.65	0.21963	(12122424)	439866.61	3761570.65	0.23714	(12122424)
440451.14	3762893.83	0.54775c	(12011624)	440501.14	3762893.83	0.56694c	(12011624)
440551.14	3762893.83	0.51532c	(12011624)	440601.14	3762893.83	0.41883c	(12011624)
440651.14	3762893.83	0.31052c	(12011624)	440701.14	3762893.83	0.23438	(13050624)
440751.14	3762893.83	0.23601	(13050624)	440801.14	3762893.83	0.22016	(13050624)
440851.14	3762893.83	0.19324	(13050624)	440451.14	3762943.83	0.42393c	(12011624)
440501.14	3762943.83	0.46330c	(12011624)	440551.14	3762943.83	0.44890c	(12011624)
440601.14	3762943.83	0.39040c	(12011624)	440651.14			

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3762943.83        0.31118c (12011624)
        440701.14   3762943.83        0.22994c (12011624)               440751.14
3762943.83        0.19511  (13102824)
        440801.14   3762943.83        0.19588  (13050624)               440851.14
3762943.83        0.18442  (13050624)
        441116.67   3763135.31        0.09268  (12021324)               441166.67
3763135.31        0.08495  (12021324)
        441116.67   3763185.31        0.08925  (13050624)               441166.67
3763185.31        0.08284  (12021324)
        441116.67   3763235.31        0.08309  (13050624)               441166.67
3763235.31        0.07938  (13050624)
        441116.67   3763285.31        0.07828  (13102824)               441166.67
3763285.31        0.07402  (13050624)
        441116.67   3763335.31        0.07437  (13102824)               441166.67
3763335.31        0.07062  (13102824)
        441116.67   3763385.31        0.06785  (13102824)               441166.67
3763385.31        0.06750  (13102824)
        441116.67   3763435.31        0.06234  (12022724)               441166.67
3763435.31        0.06207  (13102824)
        440433.43   3762815.13        0.80620c (12011624)               440483.43
3762815.13        0.78689c (12011624)
        440533.43   3762815.13        0.66040c (12011624)               440583.43
3762815.13        0.48832c (12011624)
        440633.43   3762815.13        0.33002  (13050624)               440683.43
3762815.13        0.32497  (13050624)
        440733.43   3762815.13        0.29217  (13050624)               440783.43
3762815.13        0.24486  (13050624)
        440833.43   3762815.13        0.19450  (13050624)               440883.43
3762815.13        0.16361b (12043024)
        440933.43   3762815.13        0.16506b (12043024)               440983.43
3762815.13        0.16016b (12043024)
        440433.43   3762865.13        0.61251c (12011624)               440483.43
3762865.13        0.64398c (12011624)
        440533.43   3762865.13        0.58686c (12011624)               440583.43
3762865.13        0.47417c (12011624)
        440633.43   3762865.13        0.34646c (12011624)               440683.43
3762865.13        0.26547  (13050624)
        440733.43   3762865.13        0.26212  (13050624)               440783.43
3762865.13        0.23922  (13050624)
        440833.43   3762865.13        0.20521  (13050624)               440883.43
3762865.13        0.16775  (13050624)
        440933.43   3762865.13        0.13832  (12032624)               440983.43
3762865.13        0.13203b (12043024)
        441118.27   3762686.02        0.16811  (12042324)               441168.27
3762686.02        0.14600  (12042324)
        441118.27   3762736.02        0.17017  (12042324)               441168.27
3762736.02        0.15425  (12042324)
        441118.27   3762786.02        0.15147  (12042324)               441168.27
3762786.02        0.14475  (12042324)
        441118.27   3762836.02        0.12799b (12043024)               441168.27
3762836.02        0.12143  (12042324)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440411.67	3762093.41	0.73219	(15122124)	440461.67	3762093.41	0.65082	(15122124)
440511.67	3762093.41	0.59958	(12031224)	440561.67	3762093.41	0.53364	(12031224)
440611.67	3762093.41	0.44228	(12031224)	440411.67	3762143.41	0.99778	(15122124)
440461.67	3762143.41	0.87381	(12031224)	440511.67	3762143.41	0.76932	(12031224)
440561.67	3762143.41	0.61989	(12031224)	440611.67	3762143.41	0.49229m	(12123124)
440406.61	3762008.86	0.48463b	(14090824)	440456.61	3762008.86	0.44910	(15122124)
440506.61	3762008.86	0.41006	(15122124)	440556.61	3762008.86	0.36613	(12031224)
440606.61	3762008.86	0.34495	(12031224)	440656.61	3762008.86	0.30554	(12031224)
440706.61	3762008.86	0.25904	(12031224)	440756.61	3762008.86	0.21301	(12031224)
440806.61	3762008.86	0.20175m	(12123124)	440856.61	3762008.86	0.19032m	(12123124)
440906.61	3762008.86	0.17732m	(12123124)	440956.61	3762008.86	0.16393m	(12123124)
441006.61	3762008.86	0.15065m	(12123124)	441056.61	3762008.86	0.13795m	(12123124)
441106.61	3762008.86	0.12779	(12121024)	441156.61	3762008.86	0.11882	(12121024)
440406.61	3762058.86	0.59024	(15122124)	440456.61	3762058.86	0.56805	(15122124)
440506.61	3762058.86	0.49193	(12031224)	440556.61			

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3762058.86        0.46868  (12031224)
        440606.61   3762058.86        0.41219  (12031224)                440656.61
3762058.86        0.34207  (12031224)
        440706.61   3762058.86        0.27555m (12123124)                440756.61
3762058.86        0.25778m (12123124)
        440806.61   3762058.86        0.23726m (12123124)                440856.61
3762058.86        0.21586m (12123124)
        440906.61   3762058.86        0.19493m (12123124)                440956.61
3762058.86        0.17694c (13110424)
        441006.61   3762058.86        0.16684c (13110424)                441056.61
3762058.86        0.15620c (13110424)
        441106.61   3762058.86        0.14579c (13110424)                441156.61
3762058.86        0.13583c (13110424)
        440191.38   3762138.44        1.98512  (12122424)                440241.38
3762138.44        1.26212  (12122424)
        440291.38   3762138.44        1.30155b (14090824)                440341.38
3762138.44        1.23411b (14090824)
        440191.38   3762188.44        3.13372  (12122424)                440241.38
3762188.44        2.25822  (12122424)
        440291.38   3762188.44        1.97456b (14090824)                440341.38
3762188.44        1.74126b (14090824)
        440191.38   3762238.44        5.03913  (12122424)                440241.38
3762238.44        4.26607  (12122424)
        440291.38   3762238.44        3.46435  (15122824)                440341.38
3762238.44        2.67051  (15122824)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
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        439220.17   3763242.51        9.55766  (12020424)                439270.17
3763242.51       10.30819  (12020424)
        439320.17   3763242.51       10.93969  (12020424)                439370.17
3763242.51       11.30522  (12020424)
        439420.17   3763242.51       11.36110  (12020424)                439470.17
3763242.51       11.10204  (12020424)
        439520.17   3763242.51       10.40468  (12020424)                439570.17
3763242.51        9.35241  (12020424)
        439620.17   3763242.51        8.42483m (15011124)                439670.17
3763242.51        9.30435m (15011124)
        439720.17   3763242.51       10.09637m (15011124)                439770.17
3763242.51       10.52462m (15011124)
        439820.17   3763242.51       10.47707  (13112324)                439870.17
3763242.51       10.42830  (13112324)
        439170.17   3763292.51        9.05516  (12020424)                439220.17
3763292.51        9.82260  (12020424)
        439270.17   3763292.51       10.34965  (12020424)                439320.17
3763292.51       10.60750  (12020424)
        439370.17   3763292.51       10.54732  (12020424)                439420.17
3763292.51       10.29894  (12020424)
        439470.17   3763292.51        9.67058  (12020424)                439520.17
3763292.51        8.70700  (12020424)
        439570.17   3763292.51        7.65905m (15011124)                439620.17
3763292.51        8.39489m (15011124)
        439670.17   3763292.51        9.02987m (15011124)                439720.17
3763292.51        9.56646m (15011124)
        439770.17   3763292.51        9.80148m (15011124)                439820.17
3763292.51        9.53901  (13112324)
        439870.17   3763292.51        9.40599  (13112324)                439170.17
3763342.51        9.20576  (12020424)
        439220.17   3763342.51        9.71122  (12020424)                439270.17
3763342.51        9.89009  (12020424)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:56:46

                                    PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                   L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                   L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                   L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	9.86499	(12020424)	439370.17	3763342.51	9.52885	(12020424)
439420.17	3763342.51	8.97751	(12020424)	439470.17	3763342.51	8.13568	(12020424)
439520.17	3763342.51	7.06303	(12020424)	439570.17	3763342.51	7.63461m	(15011124)
439620.17	3763342.51	8.17606m	(15011124)	439670.17	3763342.51	8.66872m	(15011124)
439720.17	3763342.51	8.96201m	(15011124)	439770.17	3763342.51	8.96968m	(15011124)
439820.17	3763342.51	8.68208	(13112324)	439870.17	3763342.51	8.49526	(13112324)
439170.17	3763392.51	9.09887	(12020424)	439220.17	3763392.51	9.31209	(12020424)
439270.17	3763392.51	9.21898	(12020424)	439320.17	3763392.51	8.95834	(12020424)
439370.17	3763392.51	8.39758	(12020424)	439420.17	3763392.51	7.62517	(12020424)
439470.17	3763392.51	6.64771	(12020424)	439520.17	3763392.51	6.97465m	(15011124)
439570.17	3763392.51	7.50336m	(15011124)	439620.17	3763392.51	7.91500m	(15011124)
439670.17	3763392.51	8.27781m	(15011124)	439720.17	3763392.51	8.31984m	(15011124)
439770.17	3763392.51	8.08310m	(15011124)	439820.17	3763392.51	7.92257	(13112324)
439870.17	3763392.51	7.70043	(13112324)	439170.17	3763442.51	8.73783	(12020424)
439220.17	3763442.51	8.68937	(12020424)	439270.17	3763442.51	8.36752	(12020424)
439320.17	3763442.51	7.86922	(12020424)	439370.17	3763442.51	7.16838	(12020424)
439420.17	3763442.51	6.30298	(12020424)	439470.17	3763442.51	6.39143m	(15011124)
439520.17	3763442.51	6.86865m	(15011124)	439570.17	3763442.51	7.31886m	(15011124)
439620.17	3763442.51	7.62594m	(15011124)	439670.17	3763442.51	7.80727m	(15011124)
439720.17	3763442.51	7.70461m	(15011124)	439770.17	3763442.51	7.37420	(13112324)
439820.17	3763442.51	7.24366	(13112324)	439870.17			

3763442.51   7.00557 (13112324)
        439203.20   3762911.16   8.26591 (12011324)   439253.20
3762911.16   8.95408 (12011324)
        439303.20   3762911.16   9.66246 (12011324)   439353.20
3762911.16   10.37866 (12011324)
        439403.20   3762911.16   11.05820 (12011324)   439453.20
3762911.16   11.67380 (12011324)
        439503.20   3762911.16   12.19208 (12011324)   439553.20
3762911.16   13.72088 (12020424)
        439203.20   3762961.16   8.30839 (12011324)   439253.20
3762961.16   8.90459 (12011324)
        439303.20   3762961.16   9.58597 (12011324)   439353.20
3762961.16   9.97715 (12011324)
        439403.20   3762961.16   10.35030 (12011324)   439453.20
3762961.16   11.05593 (12020424)
        439503.20   3762961.16   12.46007 (12020424)   439553.20
3762961.16   13.97753 (12020424)
        439203.20   3763011.16   8.70559 (12011324)   439253.20
3763011.16   9.27196 (12011324)
        439303.20   3763011.16   9.84016 (12011324)   439353.20
3763011.16   10.19856 (12011324)
        439403.20   3763011.16   10.26845 (12020424)   439453.20
3763011.16   11.72725 (12020424)
        439503.20   3763011.16   12.74603 (12020424)   439553.20
3763011.16   14.26317 (12020424)
        439203.20   3763061.16   8.79994 (12011324)   439253.20
3763061.16   9.49697 (12011324)
        439303.20   3763061.16   9.63955 (12011324)   439353.20
3763061.16   10.68422 (12020424)
        439403.20   3763061.16   11.96892 (12020424)   439453.20
3763061.16   13.08415 (12020424)
        439503.20   3763061.16   13.70893 (12020424)   439553.20
3763061.16   14.85717 (12020424)
        439196.01   3762392.48   7.36279 (16020824)   439246.01
3762392.48   7.97808 (16020824)
        439296.01   3762392.48   8.67610 (16020824)   439346.01
3762392.48   9.47496 (16020824)
        439396.01   3762392.48   10.39439 (16020824)   439446.01
3762392.48   11.45637 (16020824)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,

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                L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_10    IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439496.01   3762392.48       12.71359  (16020824)                439546.01
3762392.48       14.21138  (16020824)
        439196.01   3762442.48        7.25718  (12122024)                439246.01
3762442.48        7.93139  (12122024)
        439296.01   3762442.48        8.71291  (12122024)                439346.01
3762442.48        9.61374  (12122024)
        439396.01   3762442.48       10.66727  (12122024)                439446.01
3762442.48       11.90968  (12122024)
        439496.01   3762442.48       13.38386  (12122024)                439546.01
3762442.48       15.15423  (12122024)
        439196.01   3762492.48        8.07667  (12122024)                439246.01
3762492.48        8.84467  (12122024)
        439296.01   3762492.48        9.73502  (12122024)                439346.01
3762492.48       10.76706  (12122024)
        439396.01   3762492.48       11.96679  (12122024)                439446.01
3762492.48       13.37562  (12122024)
        439496.01   3762492.48       15.05501  (12122024)                439546.01
3762492.48       17.05517  (12122024)
        439196.01   3762542.48        8.82908  (12122024)                439246.01
3762542.48        9.66324  (12122024)
        439296.01   3762542.48       10.62479  (12122024)                439346.01
3762542.48       11.72815  (12122024)
        439396.01   3762542.48       13.00897  (12122024)                439446.01
3762542.48       14.49331  (12122024)
        439496.01   3762542.48       16.23513  (12122024)                439546.01
3762542.48       18.26692  (12122024)
        439196.01   3762592.48        9.40810  (12122024)                439246.01
3762592.48       10.26831  (12122024)
        439296.01   3762592.48       11.23974  (12122024)                439346.01
3762592.48       12.33877  (12122024)
        439396.01   3762592.48       13.58916  (12122024)                439446.01
3762592.48       15.01490  (12122024)
        439496.01   3762592.48       16.64257  (12122024)                439546.01
3762592.48       18.48384  (12122024)
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        439196.01   3762642.48        9.73458  (12122024)               439246.01
3762642.48       10.55829  (12122024)
        439296.01   3762642.48       11.47120  (12122024)               439346.01
3762642.48       12.48041  (12122024)
        439396.01   3762642.48       13.60500  (12122024)               439446.01
3762642.48       14.84482  (12122024)
        439496.01   3762642.48       16.20485  (12122024)               439546.01
3762642.48       17.67948  (12122024)
        439196.01   3762692.48        9.77233  (12122024)               439246.01
3762692.48       10.50759  (12122024)
        439296.01   3762692.48       11.30483  (12122024)               439346.01
3762692.48       12.16339  (12122024)
        439396.01   3762692.48       13.07976  (12122024)               439446.01
3762692.48       14.04917  (12122024)
        439496.01   3762692.48       15.05746  (12122024)               439546.01
3762692.48       16.09012  (12122024)
        439196.01   3762742.48        9.52979  (12122024)               439246.01
3762742.48       10.14154  (12122024)
        439296.01   3762742.48       10.78113  (12122024)               439346.01
3762742.48       11.44521  (12122024)
        439396.01   3762742.48       12.12180  (12122024)               439446.01
3762742.48       12.79717  (12122024)
        439496.01   3762742.48       13.44697  (12122024)               439546.01
3762742.48       15.08890  (12011324)
        439196.01   3762792.48        9.04943  (12122024)               439246.01
3762792.48        9.52162  (12122024)
        439296.01   3762792.48        9.98836  (12122024)               439346.01
3762792.48       10.44859  (12122024)
        439396.01   3762792.48       11.12687  (12011324)               439446.01
3762792.48       12.35560  (12011324)
        439496.01   3762792.48       13.65867  (12011324)               439546.01
3762792.48       15.01644  (12011324)
        439196.01   3762842.48        8.39338  (12122024)               439246.01
3762842.48        8.72336  (12122024)
        439296.01   3762842.48        9.41695  (12011324)               439346.01
3762842.48       10.34715  (12011324)
        439396.01   3762842.48       11.32803  (12011324)               439446.01
3762842.48       12.34012  (12011324)
        439496.01   3762842.48       13.34018  (12011324)               439546.01
3762842.48       14.29003  (12011324)
        439573.31   3762470.54       17.47631  (12122024)               439623.31
3762470.54       20.08021  (12122024)
        439673.31   3762470.54       23.28759  (12122024)               439723.31
3762470.54       27.29188  (12122024)
        439773.31   3762470.54       32.38327  (12122024)               439823.31
3762470.54       38.94441  (12122024)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:56:46
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	47.61622	(12122024)	439573.31	3762520.54	19.11294	(12122024)
439623.31	3762520.54	21.80634	(12122024)	439673.31	3762520.54	25.05669	(12122024)
439723.31	3762520.54	28.99692	(12122024)	439773.31	3762520.54	33.79671	(12122024)
439823.31	3762520.54	39.65693	(12122024)	439873.31	3762520.54	46.91260	(12122024)
439573.31	3762570.54	19.70737	(12122024)	439623.31	3762570.54	22.15091	(12122024)
439673.31	3762570.54	24.97007	(12122024)	439723.31	3762570.54	28.20723	(12122024)
439773.31	3762570.54	31.89840	(12122024)	439823.31	3762570.54	36.04940	(12122024)
439873.31	3762570.54	40.60333	(12122024)	439573.31	3762620.54	19.12021	(12122024)
439623.31	3762620.54	21.03447	(12122024)	439673.31	3762620.54	23.10693	(12122024)
439723.31	3762620.54	25.30670	(12122024)	439773.31	3762620.54	27.58046	(12122024)
439823.31	3762620.54	31.82930	(12011324)	439873.31	3762620.54	37.35541	(12011324)
439573.31	3762670.54	17.55420	(12122024)	439623.31	3762670.54	18.82565	(12122024)
439673.31	3762670.54	20.26177	(12011324)	439723.31	3762670.54	23.33884	(12011324)
439773.31	3762670.54	26.68519	(12011324)	439823.31			

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3762670.54       30.12631  (12011324)
        439873.31   3762670.54       34.00356  (12020424)                439152.35
3761448.92        5.85726  (16122724)
        439202.35   3761448.92        5.88787  (16122724)                439252.35
3761448.92        5.97557  (15031324)
        439302.35   3761448.92        6.39047  (15031324)                439352.35
3761448.92        6.76731  (15031324)
        439402.35   3761448.92        7.08328  (15031324)                439452.35
3761448.92        7.31421  (15031324)
        439502.35   3761448.92        7.46252  (15031324)                439552.35
3761448.92        7.47588  (15031324)
        439152.35   3761498.92        6.20693  (16122724)                439202.35
3761498.92        6.34395  (16122724)
        439252.35   3761498.92        6.42712  (16122724)                439302.35
3761498.92        6.49875  (15031324)
        439352.35   3761498.92        6.95972  (15031324)                439402.35
3761498.92        7.37698  (15031324)
        439452.35   3761498.92        7.72132  (15031324)                439502.35
3761498.92        8.00012  (15031324)
        439552.35   3761498.92        8.14016  (15031324)                439152.35
3761548.92        6.49463  (16122724)
        439202.35   3761548.92        6.72159  (16122724)                439252.35
3761548.92        6.90038  (16122724)
        439302.35   3761548.92        6.97493  (16122724)                439352.35
3761548.92        7.03796  (15031324)
        439402.35   3761548.92        7.58091  (15031324)                439452.35
3761548.92        8.06719  (15031324)
        439502.35   3761548.92        8.47315  (15031324)                439552.35
3761548.92        8.77384  (15031324)
        439152.35   3761598.92        6.71230  (16122724)                439202.35
3761598.92        7.02081  (16122724)
        439252.35   3761598.92        7.30303  (16122724)                439302.35
3761598.92        7.51355  (16122724)
        439352.35   3761598.92        7.61488  (16122724)                439402.35
3761598.92        7.70487  (15031324)
        439452.35   3761598.92        8.34050  (15031324)                439502.35
3761598.92        8.89312  (15031324)
        439552.35   3761598.92        9.37739  (15031324)                439152.35
3761648.92        6.85408  (16122724)
        439202.35   3761648.92        7.25104  (16122724)                439252.35
3761648.92        7.63857  (16122724)
        439302.35   3761648.92        7.97986  (16122724)                439352.35
3761648.92        8.23661  (16122724)
        439402.35   3761648.92        8.41055  (16122724)                439452.35
3761648.92        8.49572  (15031324)
        439502.35   3761648.92        9.24175  (15031324)                439552.35
3761648.92        9.91558  (15031324)
        439152.35   3761698.92        7.17246  (14122624)                439202.35
3761698.92        7.39528  (16122724)
        439252.35   3761698.92        7.85864  (16122724)                439302.35
3761698.92        8.32515  (16122724)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439352.35	3761698.92	8.75364	(16122724)	439402.35	3761698.92	9.11437	(16122724)
439452.35	3761698.92	9.31104	(16122724)	439502.35	3761698.92	9.42637	(15031324)
439552.35	3761698.92	10.31779	(15031324)	439152.35	3761748.92	7.58792	(14122624)
439202.35	3761748.92	7.88507	(14122624)	439252.35	3761748.92	8.11611	(14122624)
439302.35	3761748.92	8.57255	(16122724)	439352.35	3761748.92	9.12940	(16122724)
439402.35	3761748.92	9.65248	(16122724)	439452.35	3761748.92	10.07607	(16122724)
439502.35	3761748.92	10.36462	(16122724)	439552.35	3761748.92	10.52688	(16122724)
439152.35	3761798.92	7.88814	(14122624)	439202.35	3761798.92	8.31511	(14122624)
439252.35	3761798.92	8.69805	(14122624)	439302.35	3761798.92	9.07818	(14122624)
439352.35	3761798.92	9.39508	(16122724)	439402.35	3761798.92	10.06409	(16122724)
439452.35	3761798.92	10.72821	(16122724)	439502.35	3761798.92	11.24146	(16122724)

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        439552.35   3761798.92       11.69924  (16122724)              439152.35
3761848.92        8.05010  (14122624)
        439202.35   3761848.92        8.58497  (14122624)              439252.35
3761848.92        9.09612  (14122624)
        439302.35   3761848.92        9.62448  (14122624)              439352.35
3761848.92       10.08471  (14122624)
        439402.35   3761848.92       10.56696  (14122624)              439452.35
3761848.92       11.19354  (16122724)
        439502.35   3761848.92       11.94440  (16122724)              439552.35
3761848.92       12.71687  (16122724)
        439152.35   3761898.92        8.06434  (14122624)              439202.35
3761898.92        8.68414  (14122624)
        439252.35   3761898.92        9.31437  (14122624)              439302.35
3761898.92       10.02600  (14122624)
        439352.35   3761898.92       10.69704  (14122624)              439402.35
3761898.92       11.35473  (14122624)
        439452.35   3761898.92       12.02643  (14122624)              439502.35
3761898.92       12.57376  (14122624)
        439552.35   3761898.92       13.58840  (16122724)              439152.35
3761948.92        7.91071  (14122624)
        439202.35   3761948.92        8.59279  (14122624)              439252.35
3761948.92        9.31353  (14122624)
        439302.35   3761948.92       10.16381  (14122624)              439352.35
3761948.92       11.02698  (14122624)
        439402.35   3761948.92       11.89020  (14122624)              439452.35
3761948.92       12.84367  (14122624)
        439502.35   3761948.92       13.74966  (14122624)              439552.35
3761948.92       14.58188  (14122624)
        439152.35   3761998.92        7.63934  (14042924)              439202.35
3761998.92        8.31556  (14122624)
        439252.35   3761998.92        9.09316  (14122624)              439302.35
3761998.92       10.03533  (14122624)
        439352.35   3761998.92       11.05194  (14122624)              439402.35
3761998.92       12.08791  (14122624)
        439452.35   3761998.92       13.25068  (14122624)              439502.35
3761998.92       14.46793  (14122624)
        439552.35   3761998.92       15.72528  (14122624)              439152.35
3762048.92        7.65566  (14042924)
        439202.35   3762048.92        8.23121  (14042924)              439252.35
3762048.92        8.85165  (14042924)
        439302.35   3762048.92        9.68421  (14122624)              439352.35
3762048.92       10.74714  (14122624)
        439402.35   3762048.92       11.92510  (14122624)              439452.35
3762048.92       13.27357  (14122624)
        439502.35   3762048.92       14.75881  (14122624)              439552.35
3762048.92       16.37066  (14122624)
        439616.61   3761420.65        6.88199  (15031324)              439666.61
3761420.65        6.98263  (13010224)
        439716.61   3761420.65        6.91222  (13010224)              439766.61
3761420.65        7.17756  (16121624)
        439816.61   3761420.65        7.37320  (16121624)              439866.61
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	8.16898	(13010224)	439766.61	3761520.65	8.17641	(13010224)
439816.61	3761520.65	8.43199	(16121624)	439866.61	3761520.65	8.71229	(16121624)
439616.61	3761570.65	9.29741	(15031324)	439666.61	3761570.65	9.28495	(15031324)
439716.61	3761570.65	9.07971	(15031324)	439766.61	3761570.65	8.98725	(13010224)
439816.61	3761570.65	9.02933	(15010624)	439866.61	3761570.65	9.43690	(16121624)
440451.14	3762893.83	16.89271	(16101624)	440501.14	3762893.83	17.84621m	(16031424)
440551.14	3762893.83	19.03187	(12110924)	440601.14			

```
3762893.83       21.45914  (13102424)
        440651.14   3762893.83       23.57993  (16030624)                440701.14
3762893.83       24.24688  (16030624)
        440751.14   3762893.83       22.95059  (16030624)                440801.14
3762893.83       20.84837  (16030624)
        440851.14   3762893.83       19.01517  (12120224)                440451.14
3762943.83       14.95607  (14013024)
        440501.14   3762943.83       15.23047  (15032224)                440551.14
3762943.83       16.74264  (16082624)
        440601.14   3762943.83       18.31649  (16082624)                440651.14
3762943.83       20.27711  (13102424)
        440701.14   3762943.83       21.35639  (13102424)                440751.14
3762943.83       20.93226  (16030624)
        440801.14   3762943.83       20.32692  (16030624)                440851.14
3762943.83       18.69531  (16030624)
        441116.67   3763135.31       11.84163  (12120224)                441166.67
3763135.31       11.95663  (12120224)
        441116.67   3763185.31       10.91181  (13102424)                441166.67
3763185.31       10.61643  (12120224)
        441116.67   3763235.31       11.14742  (13102424)                441166.67
3763235.31        9.98641  (13102424)
        441116.67   3763285.31       11.31625  (13102424)                441166.67
3763285.31       10.27234  (13102424)
        441116.67   3763335.31       11.18361  (13102424)                441166.67
3763335.31       10.42354  (13102424)
        441116.67   3763385.31       10.80534  (13102424)                441166.67
3763385.31       10.38295  (13102424)
        441116.67   3763435.31       10.27231  (13102424)                441166.67
3763435.31       10.07801  (13102424)
        440433.43   3762815.13       21.71075  (16101624)                440483.43
3762815.13       22.45880m (16031424)
        440533.43   3762815.13       25.03591  (13021924)                440583.43
3762815.13       27.56828  (16030624)
        440633.43   3762815.13       27.78704  (16030624)                440683.43
3762815.13       26.25688  (16030624)
        440733.43   3762815.13       24.43419m (16031424)                440783.43
3762815.13       23.18356m (16031424)
        440833.43   3762815.13       23.70009  (14032624)                440883.43
3762815.13       23.20706  (14032624)
        440933.43   3762815.13       21.60984  (14032624)                440983.43
3762815.13       20.07556  (14032624)
        440433.43   3762865.13       18.66727  (16101624)                440483.43
3762865.13       18.92220m (16031424)
        440533.43   3762865.13       19.93334m (16031424)                440583.43
3762865.13       22.52026  (16030624)
        440633.43   3762865.13       24.88827  (16030624)                440683.43
3762865.13       25.10057  (16030624)
        440733.43   3762865.13       23.86824  (16030624)                440783.43
3762865.13       21.31174  (16030624)
        440833.43   3762865.13       20.21636m (16031424)                440883.43
3762865.13       19.66530  (14032624)
```

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        440933.43   3762865.13       19.28556  (14032624)                440983.43
3762865.13       18.63166  (14032624)
        441118.27   3762686.02       16.09163  (13040124)                441168.27
3762686.02       15.24381m (12050224)
        441118.27   3762736.02       15.54868  (13040124)                441168.27
3762736.02       14.49840  (13040124)
        441118.27   3762786.02       15.61126  (14032624)                441168.27
3762786.02       13.98224  (14032624)
        441118.27   3762836.02       15.85760  (14032624)                441168.27
3762836.02       14.46546  (14032624)
        440411.67   3762093.41       50.01356  (12010924)                440461.67
3762093.41       45.12565  (14110524)
        440511.67   3762093.41       36.56376  (14110524)                440561.67
3762093.41       29.29812  (14110424)
        440611.67   3762093.41       24.06514  (14110424)                440411.67
3762143.41       63.55883  (14110524)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        21:56:46

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                   L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                   L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                   L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_10    IN MICROGRAMS/M**3
                   **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440461.67   3762143.41       51.58866  (14110524)                440511.67
3762143.41       40.60812  (14110424)
        440561.67   3762143.41       32.47881  (14110424)                440611.67
3762143.41       29.35039  (14091924)
        440406.61   3762008.86       38.58170  (12010924)                440456.61
3762008.86       33.92538  (14110524)
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        440506.61   3762008.86       31.48349  (14110524)                440556.61
3762008.86       26.77312  (14110524)
        440606.61   3762008.86       21.63537  (14110524)                440656.61
3762008.86       18.07556  (14110424)
        440706.61   3762008.86       15.73320  (13011624)                440756.61
3762008.86       15.34611  (15013124)
        440806.61   3762008.86       14.76332  (14091924)                440856.61
3762008.86       15.05335  (14091924)
        440906.61   3762008.86       15.11953b (14072524)                440956.61
3762008.86       14.79802b (14072524)
        441006.61   3762008.86       14.24601b (14072524)                441056.61
3762008.86       13.50686b (14072524)
        441106.61   3762008.86       12.71865b (14072524)                441156.61
3762008.86       11.90197b (14072524)
        440406.61   3762058.86       45.60522  (12010924)                440456.61
3762058.86       40.80298  (14110524)
        440506.61   3762058.86       35.23645  (14110524)                440556.61
3762058.86       28.20843  (14110524)
        440606.61   3762058.86       23.15085  (14110424)                440656.61
3762058.86       19.57157  (15013124)
        440706.61   3762058.86       18.90005  (15013124)                440756.61
3762058.86       18.73871  (14091924)
        440806.61   3762058.86       18.69306b (14072524)                440856.61
3762058.86       18.36077b (14072524)
        440906.61   3762058.86       17.66725b (14072524)                440956.61
3762058.86       16.69016b (14072524)
        441006.61   3762058.86       15.58475b (14072524)                441056.61
3762058.86       14.44583b (14072524)
        441106.61   3762058.86       13.32499b (14072524)                441156.61
3762058.86       12.25996b (14072524)
        440191.38   3762138.44       67.86924m (13010324)                440241.38
3762138.44       72.96532  (16021524)
        440291.38   3762138.44       77.19668c (14012124)                440341.38
3762138.44       74.98441  (12010924)
        440191.38   3762188.44       91.66542  (14120224)                440241.38
3762188.44      100.48912m (13010324)
        440291.38   3762188.44      108.91068c (14012124)                440341.38
3762188.44      102.19361  (12010924)
        440191.38   3762238.44      142.38351  (14120224)                440241.38
3762238.44      159.09441m (13010324)
        440291.38   3762238.44      171.53937  (12010924)                440341.38
3762238.44      141.19869  (12010924)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM10 24HR
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       21:56:46

                                   PAGE  99
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
```

HRS) RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
P2ONSITE	1ST HIGHEST VALUE IS	33.06517 AT	(440291.38, 3762238.44, 213.76, 213.76, 0.00)	DC	
	2ND HIGHEST VALUE IS	32.62897 AT	(440241.38, 3762238.44, 212.37, 212.37, 0.00)	DC	
	3RD HIGHEST VALUE IS	27.92428 AT	(440341.38, 3762238.44, 213.60, 213.60, 0.00)	DC	
	4TH HIGHEST VALUE IS	26.90355 AT	(440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	
	5TH HIGHEST VALUE IS	19.41626 AT	(440291.38, 3762188.44, 213.06, 213.06, 0.00)	DC	
	6TH HIGHEST VALUE IS	19.15800 AT	(440241.38, 3762188.44, 211.78, 211.78, 0.00)	DC	
	7TH HIGHEST VALUE IS	17.59690 AT	(440341.38, 3762188.44, 213.12, 213.12, 0.00)	DC	
	8TH HIGHEST VALUE IS	17.30245 AT	(440191.38, 3762188.44, 212.58, 212.58, 0.00)	DC	
	9TH HIGHEST VALUE IS	12.97724 AT	(440291.38, 3762138.44, 212.00, 212.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	12.93805 AT	(440241.38, 3762138.44, 211.71, 211.71, 0.00)	DC	
P2IDLE	1ST HIGHEST VALUE IS	26.10954 AT	(440241.38, 3762238.44, 212.37, 212.37, 0.00)	DC	
	2ND HIGHEST VALUE IS	25.81470 AT	(440291.38, 3762238.44, 213.76, 213.76, 0.00)	DC	
	3RD HIGHEST VALUE IS	22.91794 AT	(440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	
	4TH HIGHEST VALUE IS	21.85662 AT	(440341.38, 3762238.44, 213.60, 213.60, 0.00)	DC	
	5TH HIGHEST VALUE IS	16.24069 AT	(440241.38, 3762188.44, 211.78, 211.78, 0.00)	DC	
	6TH HIGHEST VALUE IS	16.16158 AT	(440291.38, 3762188.44, 213.06, 213.06, 0.00)	DC	
	7TH HIGHEST VALUE IS	15.14603 AT	(440191.38, 3762188.44, 212.58, 212.58, 0.00)	DC	
	8TH HIGHEST VALUE IS	14.57909 AT	(440341.38, 3762188.44, 213.12, 213.12, 0.00)	DC	
	9TH HIGHEST VALUE IS	11.32316 AT	(440241.38, 3762138.44, 211.71,		

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  211.71,    0.00)  DC
        10TH HIGHEST VALUE IS      11.20436 AT (  440291.38,  3762138.44,   212.00,
  212.00,    0.00)  DC

P2GEN     1ST HIGHEST VALUE IS       0.03244 AT (  440341.38,  3762238.44,   213.60,
  213.60,    0.00)  DC
          2ND HIGHEST VALUE IS       0.03035 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC
          3RD HIGHEST VALUE IS       0.02728 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
          4TH HIGHEST VALUE IS       0.02261 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          5TH HIGHEST VALUE IS       0.01482 AT (  440341.38,  3762188.44,   213.12,
  213.12,    0.00)  DC
          6TH HIGHEST VALUE IS       0.01438 AT (  440291.38,  3762188.44,   213.06,
  213.06,    0.00)  DC
          7TH HIGHEST VALUE IS       0.01421 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
          8TH HIGHEST VALUE IS       0.01311 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
          9TH HIGHEST VALUE IS       0.01007 AT (  440511.67,  3762143.41,   212.45,
  212.45,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00992 AT (  440561.67,  3762143.41,   212.23,
  212.23,    0.00)  DC

ALL       1ST HIGHEST VALUE IS      58.91022 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC
          2ND HIGHEST VALUE IS      58.76580 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
          3RD HIGHEST VALUE IS      49.84410 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          4TH HIGHEST VALUE IS      49.81335 AT (  440341.38,  3762238.44,   213.60,
  213.60,    0.00)  DC
          5TH HIGHEST VALUE IS      35.59221 AT (  440291.38,  3762188.44,   213.06,
  213.06,    0.00)  DC
          6TH HIGHEST VALUE IS      35.41290 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
          7TH HIGHEST VALUE IS      32.46159 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
          8TH HIGHEST VALUE IS      32.19081 AT (  440341.38,  3762188.44,   213.12,
  213.12,    0.00)  DC
          9TH HIGHEST VALUE IS      24.26973 AT (  440241.38,  3762138.44,   211.71,
  211.71,    0.00)  DC
         10TH HIGHEST VALUE IS      24.18992 AT (  440291.38,  3762138.44,   212.00,
  212.00,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE	GRID-ID
P2ONSITE	HIGH	1ST HIGH VALUE IS	242.22954	ON 16020317: AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	
P2IDLE	HIGH	1ST HIGH VALUE IS	229.49464	ON 14113016: AT (440241.38, 3762238.44, 212.37, 212.37, 0.00)	DC	
P2GEN	HIGH	1ST HIGH VALUE IS	120.93907	ON 12122413: AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	
ALL	HIGH	1ST HIGH VALUE IS	470.56340	ON 16020317: AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_10 IN MICROGRAMS/M**3
**

GROUP ID	AVERAGE CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	NETWORK OF TYPE GRID-ID
P2ONSITE HIGH 1ST HIGH VALUE IS	91.14973	ON 12010924:	AT (440291.38, 3762238.44, 213.76, 213.76, 0.00)	DC
P2IDLE HIGH 1ST HIGH VALUE IS	77.42658	ON 12010924:	AT (440291.38, 3762238.44, 213.76, 213.76, 0.00)	DC
P2GEN HIGH 1ST HIGH VALUE IS	5.03913	ON 12122424:	AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC
ALL HIGH 1ST HIGH VALUE IS	171.53937	ON 12010924:	AT (440291.38, 3762238.44, 213.76, 213.76, 0.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1279 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 917 Calm Hours Identified

A Total of 362 Missing Hours Identified (0.83 Percent)

******** FATAL ERROR MESSAGES ********

```
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     214       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187     214       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/5/2023
** File: C:\Lakes\P1Op_PM2_5\P1Op_PM2_5.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid P1Op_PM2.5
   MODELOPT DFAULT CONC
   AVERTIME 24 PERIOD
   URBANOPT 2035210
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL P1Op_PM2_5.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Building 1 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0439137
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439979.680, 3762795.008, 219.39, 3.11, 6.98
** 440019.164, 3762795.008, 219.45, 3.11, 6.98
** ------------------------------------------------------------------------
   LOCATION L0013407     VOLUME   439987.180 3762795.008 219.43
   LOCATION L0013408     VOLUME   440002.180 3762795.008 219.45
```

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   LOCATION L0013409     VOLUME   440017.180 3762795.008 219.47
** End of LINE VOLUME Source ID = SLINE26
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Building 2 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0485592
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439977.938, 3762735.201, 218.71, 3.11, 6.98
** 440018.584, 3762735.201, 218.82, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013410     VOLUME   439985.438 3762735.201 218.79
   LOCATION L0013411     VOLUME   440000.438 3762735.201 218.84
   LOCATION L0013412     VOLUME   440015.438 3762735.201 218.88
** End of LINE VOLUME Source ID = SLINE27
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Building 3 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0385124
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439995.358, 3762633.007, 217.26, 3.11, 6.98
** 439995.938, 3762581.909, 216.46, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013413     VOLUME   439995.443 3762625.507 217.14
   LOCATION L0013414     VOLUME   439995.613 3762610.508 216.95
   LOCATION L0013415     VOLUME   439995.784 3762595.509 216.73
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Building 4 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0549656
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440075.488, 3762801.976, 219.54, 3.11, 6.98
** 440117.294, 3762801.976, 219.49, 3.11, 6.98
```

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** ----------------------------------------------------------------------
   LOCATION L0013416     VOLUME   440082.988 3762801.976 219.48
   LOCATION L0013417     VOLUME   440097.988 3762801.976 219.47
   LOCATION L0013418     VOLUME   440112.988 3762801.976 219.49
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Building 5 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.092095
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440078.391, 3762717.201, 218.56, 3.11, 6.98
** 440078.391, 3762659.136, 217.97, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013419     VOLUME   440078.391 3762709.701 218.57
   LOCATION L0013420     VOLUME   440078.391 3762694.701 218.38
   LOCATION L0013421     VOLUME   440078.391 3762679.701 218.18
   LOCATION L0013422     VOLUME   440078.391 3762664.701 218.00
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC Building 6 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1609194
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440237.489, 3762788.041, 219.93, 3.11, 6.98
** 440238.651, 3762709.653, 219.12, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013423     VOLUME   440237.600 3762780.541 219.88
   LOCATION L0013424     VOLUME   440237.823 3762765.543 219.78
   LOCATION L0013425     VOLUME   440238.045 3762750.545 219.62
   LOCATION L0013426     VOLUME   440238.267 3762735.546 219.44
   LOCATION L0013427     VOLUME   440238.489 3762720.548 219.27
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Building 7 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
```

```
** Emission Rate = 0.0937694
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440296.716, 3762795.008, 219.86, 3.11, 6.98
** 440296.716, 3762742.169, 218.72, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013428     VOLUME   440296.716 3762787.508 219.78
   LOCATION L0013429     VOLUME   440296.716 3762772.508 219.34
   LOCATION L0013430     VOLUME   440296.716 3762757.508 218.93
   LOCATION L0013431     VOLUME   440296.716 3762742.508 218.70
** End of LINE VOLUME Source ID = SLINE32
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Building 8 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0971183
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440246.780, 3762543.586, 214.83, 3.11, 6.98
** 440301.942, 3762543.586, 214.44, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013432     VOLUME   440254.280 3762543.586 214.62
   LOCATION L0013433     VOLUME   440269.280 3762543.586 214.34
   LOCATION L0013434     VOLUME   440284.280 3762543.586 214.39
   LOCATION L0013435     VOLUME   440299.280 3762543.586 214.40
** End of LINE VOLUME Source ID = SLINE33
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Building 9  Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1088395
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440053.423, 3762439.650, 215.38, 3.11, 6.98
** 440121.359, 3762440.230, 215.09, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013436     VOLUME   440060.923 3762439.714 215.39
   LOCATION L0013437     VOLUME   440075.922 3762439.842 215.27
   LOCATION L0013438     VOLUME   440090.921 3762439.970 215.16
   LOCATION L0013439     VOLUME   440105.921 3762440.098 215.11
   LOCATION L0013440     VOLUME   440120.920 3762440.227 215.12
** End of LINE VOLUME Source ID = SLINE34
```

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** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Building 10 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0837997
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440051.681, 3762374.617, 214.11, 3.11, 6.98
** 440121.940, 3762375.778, 214.33, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013441     VOLUME   440059.180 3762374.741 214.42
   LOCATION L0013442     VOLUME   440074.178 3762374.989 214.38
   LOCATION L0013443     VOLUME   440089.176 3762375.237 214.35
   LOCATION L0013444     VOLUME   440104.174 3762375.484 214.32
   LOCATION L0013445     VOLUME   440119.172 3762375.732 214.26
** End of LINE VOLUME Source ID = SLINE35
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC Building 11 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0284657
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 2
** 439969.228, 3762487.263, 214.84, 0.52, 6.98
** 439995.938, 3762463.456, 214.83, 0.52, 6.98
** ------------------------------------------------------------------
   LOCATION L0013446     VOLUME   439974.827 3762482.273 214.89
   LOCATION L0013447     VOLUME   439986.025 3762472.292 214.87
** End of LINE VOLUME Source ID = SLINE36
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Building 12 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0251323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439972.712, 3762357.197, 213.29, 3.11, 6.98
** 439994.196, 3762332.229, 213.46, 3.11, 6.98
** ------------------------------------------------------------------
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   LOCATION L0013448     VOLUME   439977.604 3762351.512 213.39
   LOCATION L0013449     VOLUME   439987.388 3762340.142 213.51
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Building 13 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1239096
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440018.003, 3762237.583, 212.71, 3.11, 6.98
** 440088.262, 3762238.164, 212.91, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013450     VOLUME   440025.503 3762237.645 212.81
   LOCATION L0013451     VOLUME   440040.502 3762237.769 212.89
   LOCATION L0013452     VOLUME   440055.502 3762237.893 212.91
   LOCATION L0013453     VOLUME   440070.501 3762238.017 212.92
   LOCATION L0013454     VOLUME   440085.501 3762238.141 212.91
** End of LINE VOLUME Source ID = SLINE38
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Onsite Building 1
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.071417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.723, 3762869.914, 220.47, 3.11, 5.58
** 440153.303, 3762781.342, 219.32, 3.11, 5.58
** 440038.286, 3762782.601, 219.42, 3.11, 5.58
** 440037.446, 3762773.786, 219.18, 3.11, 5.58
** 439977.839, 3762774.206, 219.07, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013092     VOLUME   440153.695 3762863.914 220.47
   LOCATION L0013093     VOLUME   440153.638 3762851.914 220.15
   LOCATION L0013094     VOLUME   440153.581 3762839.914 219.95
   LOCATION L0013095     VOLUME   440153.524 3762827.914 219.76
   LOCATION L0013096     VOLUME   440153.467 3762815.915 219.59
   LOCATION L0013097     VOLUME   440153.410 3762803.915 219.46
   LOCATION L0013098     VOLUME   440153.353 3762791.915 219.33
   LOCATION L0013099     VOLUME   440151.876 3762781.358 219.24
   LOCATION L0013100     VOLUME   440139.877 3762781.489 219.24
   LOCATION L0013101     VOLUME   440127.878 3762781.620 219.28
   LOCATION L0013102     VOLUME   440115.878 3762781.752 219.32
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   LOCATION L0013103     VOLUME   440103.879 3762781.883 219.31
   LOCATION L0013104     VOLUME   440091.880 3762782.015 219.31
   LOCATION L0013105     VOLUME   440079.881 3762782.146 219.34
   LOCATION L0013106     VOLUME   440067.881 3762782.277 219.36
   LOCATION L0013107     VOLUME   440055.882 3762782.409 219.37
   LOCATION L0013108     VOLUME   440043.883 3762782.540 219.38
   LOCATION L0013109     VOLUME   440037.679 3762776.227 219.32
   LOCATION L0013110     VOLUME   440027.899 3762773.853 219.30
   LOCATION L0013111     VOLUME   440015.899 3762773.938 219.29
   LOCATION L0013112     VOLUME   440003.899 3762774.022 219.27
   LOCATION L0013113     VOLUME   439991.900 3762774.107 219.24
   LOCATION L0013114     VOLUME   439979.900 3762774.191 219.21
** End of LINE VOLUME Source ID = SLINE6
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Onsite Building 2
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.077690289
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.303, 3762869.494, 220.45, 3.11, 5.58
** 440153.723, 3762762.872, 219.11, 3.11, 5.58
** 440038.706, 3762761.613, 219.20, 3.11, 5.58
** 440037.866, 3762747.341, 218.83, 3.11, 5.58
** 439977.839, 3762746.501, 218.71, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013115     VOLUME   440153.327 3762863.494 220.46
   LOCATION L0013116     VOLUME   440153.374 3762851.494 220.14
   LOCATION L0013117     VOLUME   440153.421 3762839.494 219.95
   LOCATION L0013118     VOLUME   440153.469 3762827.495 219.75
   LOCATION L0013119     VOLUME   440153.516 3762815.495 219.59
   LOCATION L0013120     VOLUME   440153.563 3762803.495 219.46
   LOCATION L0013121     VOLUME   440153.610 3762791.495 219.33
   LOCATION L0013122     VOLUME   440153.658 3762779.495 219.23
   LOCATION L0013123     VOLUME   440153.705 3762767.495 219.14
   LOCATION L0013124     VOLUME   440146.346 3762762.791 219.06
   LOCATION L0013125     VOLUME   440134.347 3762762.660 219.07
   LOCATION L0013126     VOLUME   440122.348 3762762.529 219.11
   LOCATION L0013127     VOLUME   440110.349 3762762.397 219.13
   LOCATION L0013128     VOLUME   440098.349 3762762.266 219.14
   LOCATION L0013129     VOLUME   440086.350 3762762.134 219.16
   LOCATION L0013130     VOLUME   440074.351 3762762.003 219.18
   LOCATION L0013131     VOLUME   440062.351 3762761.872 219.19
   LOCATION L0013132     VOLUME   440050.352 3762761.740 219.20
   LOCATION L0013133     VOLUME   440038.685 3762761.261 219.20
   LOCATION L0013134     VOLUME   440037.980 3762749.281 219.06
   LOCATION L0013135     VOLUME   440027.811 3762747.200 219.03
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   LOCATION L0013136     VOLUME   440015.812 3762747.032 219.02
   LOCATION L0013137     VOLUME   440003.814 3762746.864 218.98
   LOCATION L0013138     VOLUME   439991.815 3762746.697 218.95
   LOCATION L0013139     VOLUME   439979.816 3762746.529 218.91
** End of LINE VOLUME Source ID = SLINE7
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Onsite Building 3
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.104488189
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440152.464, 3762870.334, 220.46, 3.11, 5.58
** 440153.723, 3762630.644, 217.47, 3.11, 5.58
** 440047.521, 3762597.062, 217.53, 3.11, 5.58
** 440044.163, 3762611.754, 217.81, 3.11, 5.58
** 440012.260, 3762611.754, 217.20, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013140     VOLUME   440152.495 3762864.334 220.48
   LOCATION L0013141     VOLUME   440152.558 3762852.334 220.16
   LOCATION L0013142     VOLUME   440152.621 3762840.334 219.96
   LOCATION L0013143     VOLUME   440152.684 3762828.334 219.76
   LOCATION L0013144     VOLUME   440152.747 3762816.334 219.60
   LOCATION L0013145     VOLUME   440152.811 3762804.335 219.47
   LOCATION L0013146     VOLUME   440152.874 3762792.335 219.33
   LOCATION L0013147     VOLUME   440152.937 3762780.335 219.24
   LOCATION L0013148     VOLUME   440153.000 3762768.335 219.14
   LOCATION L0013149     VOLUME   440153.063 3762756.335 219.06
   LOCATION L0013150     VOLUME   440153.126 3762744.335 219.01
   LOCATION L0013151     VOLUME   440153.189 3762732.336 218.96
   LOCATION L0013152     VOLUME   440153.252 3762720.336 218.83
   LOCATION L0013153     VOLUME   440153.315 3762708.336 218.69
   LOCATION L0013154     VOLUME   440153.378 3762696.336 218.52
   LOCATION L0013155     VOLUME   440153.441 3762684.336 218.27
   LOCATION L0013156     VOLUME   440153.504 3762672.336 218.02
   LOCATION L0013157     VOLUME   440153.567 3762660.337 217.82
   LOCATION L0013158     VOLUME   440153.630 3762648.337 217.64
   LOCATION L0013159     VOLUME   440153.693 3762636.337 217.46
   LOCATION L0013160     VOLUME   440147.710 3762628.742 217.28
   LOCATION L0013161     VOLUME   440136.268 3762625.125 217.18
   LOCATION L0013162     VOLUME   440124.826 3762621.507 217.16
   LOCATION L0013163     VOLUME   440113.385 3762617.889 217.17
   LOCATION L0013164     VOLUME   440101.943 3762614.271 217.26
   LOCATION L0013165     VOLUME   440090.501 3762610.653 217.36
   LOCATION L0013166     VOLUME   440079.060 3762607.035 217.41
   LOCATION L0013167     VOLUME   440067.618 3762603.417 217.47
   LOCATION L0013168     VOLUME   440056.177 3762599.799 217.54
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   LOCATION L0013169     VOLUME   440046.870 3762599.911 217.62
   LOCATION L0013170     VOLUME   440044.196 3762611.609 217.83
   LOCATION L0013171     VOLUME   440032.312 3762611.754 217.71
   LOCATION L0013172     VOLUME   440020.312 3762611.754 217.40
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Onite Building 4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.042309711
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440152.464, 3762869.914, 220.45, 3.11, 5.58
** 440152.884, 3762782.601, 219.33, 3.11, 5.58
** 440079.004, 3762783.021, 219.38, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013173     VOLUME   440152.493 3762863.914 220.47
   LOCATION L0013174     VOLUME   440152.550 3762851.914 220.15
   LOCATION L0013175     VOLUME   440152.608 3762839.914 219.95
   LOCATION L0013176     VOLUME   440152.666 3762827.914 219.76
   LOCATION L0013177     VOLUME   440152.723 3762815.915 219.60
   LOCATION L0013178     VOLUME   440152.781 3762803.915 219.46
   LOCATION L0013179     VOLUME   440152.839 3762791.915 219.33
   LOCATION L0013180     VOLUME   440150.197 3762782.617 219.25
   LOCATION L0013181     VOLUME   440138.197 3762782.685 219.26
   LOCATION L0013182     VOLUME   440126.198 3762782.753 219.30
   LOCATION L0013183     VOLUME   440114.198 3762782.821 219.33
   LOCATION L0013184     VOLUME   440102.198 3762782.889 219.32
   LOCATION L0013185     VOLUME   440090.198 3762782.958 219.32
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Onsite Building 5
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.153937008
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 440152.884, 3762870.754, 220.48, 3.11, 5.58
** 440155.402, 3762635.681, 217.50, 3.11, 5.58
** 440062.633, 3762599.581, 217.46, 3.11, 5.58
** 440059.694, 3762709.981, 218.54, 3.11, 5.58
** 440058.855, 3762763.712, 219.18, 3.11, 5.58
** 440146.587, 3762762.452, 219.03, 3.11, 5.58
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** ----------------------------------------------------------------------
   LOCATION L0013186     VOLUME   440152.948 3762864.754 220.49
   LOCATION L0013187     VOLUME   440153.076 3762852.755 220.16
   LOCATION L0013188     VOLUME   440153.205 3762840.755 219.97
   LOCATION L0013189     VOLUME   440153.334 3762828.756 219.77
   LOCATION L0013190     VOLUME   440153.462 3762816.757 219.60
   LOCATION L0013191     VOLUME   440153.591 3762804.757 219.47
   LOCATION L0013192     VOLUME   440153.719 3762792.758 219.34
   LOCATION L0013193     VOLUME   440153.848 3762780.759 219.24
   LOCATION L0013194     VOLUME   440153.976 3762768.759 219.15
   LOCATION L0013195     VOLUME   440154.105 3762756.760 219.07
   LOCATION L0013196     VOLUME   440154.233 3762744.761 219.03
   LOCATION L0013197     VOLUME   440154.362 3762732.761 218.98
   LOCATION L0013198     VOLUME   440154.491 3762720.762 218.86
   LOCATION L0013199     VOLUME   440154.619 3762708.763 218.72
   LOCATION L0013200     VOLUME   440154.748 3762696.763 218.56
   LOCATION L0013201     VOLUME   440154.876 3762684.764 218.31
   LOCATION L0013202     VOLUME   440155.005 3762672.765 218.05
   LOCATION L0013203     VOLUME   440155.133 3762660.766 217.85
   LOCATION L0013204     VOLUME   440155.262 3762648.766 217.66
   LOCATION L0013205     VOLUME   440155.391 3762636.767 217.48
   LOCATION L0013206     VOLUME   440145.231 3762631.723 217.30
   LOCATION L0013207     VOLUME   440134.048 3762627.371 217.22
   LOCATION L0013208     VOLUME   440122.865 3762623.020 217.19
   LOCATION L0013209     VOLUME   440111.682 3762618.668 217.20
   LOCATION L0013210     VOLUME   440100.498 3762614.316 217.28
   LOCATION L0013211     VOLUME   440089.315 3762609.964 217.36
   LOCATION L0013212     VOLUME   440078.132 3762605.612 217.40
   LOCATION L0013213     VOLUME   440066.949 3762601.261 217.45
   LOCATION L0013214     VOLUME   440062.437 3762606.946 217.57
   LOCATION L0013215     VOLUME   440062.117 3762618.942 217.70
   LOCATION L0013216     VOLUME   440061.798 3762630.938 217.82
   LOCATION L0013217     VOLUME   440061.479 3762642.934 217.92
   LOCATION L0013218     VOLUME   440061.159 3762654.929 217.98
   LOCATION L0013219     VOLUME   440060.840 3762666.925 218.05
   LOCATION L0013220     VOLUME   440060.521 3762678.921 218.20
   LOCATION L0013221     VOLUME   440060.202 3762690.917 218.37
   LOCATION L0013222     VOLUME   440059.882 3762702.912 218.53
   LOCATION L0013223     VOLUME   440059.617 3762714.909 218.67
   LOCATION L0013224     VOLUME   440059.430 3762726.908 218.81
   LOCATION L0013225     VOLUME   440059.242 3762738.906 218.95
   LOCATION L0013226     VOLUME   440059.055 3762750.905 219.08
   LOCATION L0013227     VOLUME   440058.867 3762762.903 219.20
   LOCATION L0013228     VOLUME   440070.045 3762763.551 219.20
   LOCATION L0013229     VOLUME   440082.044 3762763.379 219.17
   LOCATION L0013230     VOLUME   440094.043 3762763.207 219.15
   LOCATION L0013231     VOLUME   440106.041 3762763.034 219.14
   LOCATION L0013232     VOLUME   440118.040 3762762.862 219.13
   LOCATION L0013233     VOLUME   440130.039 3762762.690 219.09
   LOCATION L0013234     VOLUME   440142.038 3762762.518 219.05
** End of LINE VOLUME Source ID = SLINE10
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** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC Onsite Building 6
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.064015748
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 3
** 440369.066, 3762686.893, 218.77, 0.52, 5.58
** 440258.246, 3762657.929, 218.44, 0.52, 5.58
** 440253.629, 3762787.219, 219.89, 0.52, 5.58
** ------------------------------------------------------------------
   LOCATION L0013235     VOLUME   440363.261 3762685.376 218.72
   LOCATION L0013236     VOLUME   440351.651 3762682.342 218.66
   LOCATION L0013237     VOLUME   440340.041 3762679.307 218.47
   LOCATION L0013238     VOLUME   440328.431 3762676.273 218.22
   LOCATION L0013239     VOLUME   440316.821 3762673.238 218.02
   LOCATION L0013240     VOLUME   440305.211 3762670.204 217.91
   LOCATION L0013241     VOLUME   440293.601 3762667.170 217.90
   LOCATION L0013242     VOLUME   440281.991 3762664.135 218.20
   LOCATION L0013243     VOLUME   440270.381 3762661.101 218.46
   LOCATION L0013244     VOLUME   440258.771 3762658.066 218.42
   LOCATION L0013245     VOLUME   440257.837 3762669.380 218.64
   LOCATION L0013246     VOLUME   440257.409 3762681.372 218.78
   LOCATION L0013247     VOLUME   440256.981 3762693.364 218.92
   LOCATION L0013248     VOLUME   440256.552 3762705.357 219.04
   LOCATION L0013249     VOLUME   440256.124 3762717.349 219.15
   LOCATION L0013250     VOLUME   440255.696 3762729.341 219.25
   LOCATION L0013251     VOLUME   440255.268 3762741.334 219.43
   LOCATION L0013252     VOLUME   440254.839 3762753.326 219.61
   LOCATION L0013253     VOLUME   440254.411 3762765.318 219.74
   LOCATION L0013254     VOLUME   440253.983 3762777.311 219.81
** End of LINE VOLUME Source ID = SLINE11
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Onsite Building 7
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057874016
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440368.646, 3762688.573, 218.78, 3.11, 5.58
** 440279.655, 3762665.065, 218.35, 3.11, 5.58
** 440278.395, 3762793.515, 219.79, 3.11, 5.58
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   LOCATION L0013255     VOLUME   440362.845 3762687.040 218.73
   LOCATION L0013256     VOLUME   440351.243 3762683.975 218.67
   LOCATION L0013257     VOLUME   440339.641 3762680.911 218.48
   LOCATION L0013258     VOLUME   440328.039 3762677.846 218.23
   LOCATION L0013259     VOLUME   440316.437 3762674.781 218.04
   LOCATION L0013260     VOLUME   440304.835 3762671.717 217.93
   LOCATION L0013261     VOLUME   440293.233 3762668.652 217.93
   LOCATION L0013262     VOLUME   440281.631 3762665.587 218.24
   LOCATION L0013263     VOLUME   440279.557 3762675.021 218.42
   LOCATION L0013264     VOLUME   440279.439 3762687.020 218.55
   LOCATION L0013265     VOLUME   440279.322 3762699.020 218.68
   LOCATION L0013266     VOLUME   440279.204 3762711.019 218.76
   LOCATION L0013267     VOLUME   440279.086 3762723.018 218.84
   LOCATION L0013268     VOLUME   440278.969 3762735.018 218.98
   LOCATION L0013269     VOLUME   440278.851 3762747.017 219.19
   LOCATION L0013270     VOLUME   440278.734 3762759.017 219.40
   LOCATION L0013271     VOLUME   440278.616 3762771.016 219.56
   LOCATION L0013272     VOLUME   440278.498 3762783.016 219.72
** End of LINE VOLUME Source ID = SLINE12
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
** DESCRSRC Onsite PA4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.124120735
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.284, 3762525.123, 215.59, 3.11, 5.58
** 439990.794, 3762536.975, 215.91, 3.11, 5.58
** 440357.234, 3762635.746, 218.25, 3.11, 5.58
** 440370.074, 3762637.721, 218.37, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013273     VOLUME   439917.218 3762526.007 215.59
   LOCATION L0013274     VOLUME   439929.087 3762527.777 215.53
   LOCATION L0013275     VOLUME   439940.956 3762529.546 215.51
   LOCATION L0013276     VOLUME   439952.825 3762531.315 215.54
   LOCATION L0013277     VOLUME   439964.694 3762533.084 215.59
   LOCATION L0013278     VOLUME   439976.563 3762534.854 215.69
   LOCATION L0013279     VOLUME   439988.432 3762536.623 215.81
   LOCATION L0013280     VOLUME   440000.074 3762539.476 216.04
   LOCATION L0013281     VOLUME   440011.661 3762542.599 216.25
   LOCATION L0013282     VOLUME   440023.247 3762545.723 216.58
   LOCATION L0013283     VOLUME   440034.834 3762548.846 216.94
   LOCATION L0013284     VOLUME   440046.420 3762551.969 217.02
   LOCATION L0013285     VOLUME   440058.007 3762555.092 216.99
   LOCATION L0013286     VOLUME   440069.593 3762558.215 216.92
   LOCATION L0013287     VOLUME   440081.180 3762561.338 216.81
   LOCATION L0013288     VOLUME   440092.766 3762564.461 216.69
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   LOCATION L0013289     VOLUME   440104.353 3762567.584 216.56
   LOCATION L0013290     VOLUME   440115.939 3762570.707 216.42
   LOCATION L0013291     VOLUME   440127.526 3762573.830 216.46
   LOCATION L0013292     VOLUME   440139.112 3762576.953 216.50
   LOCATION L0013293     VOLUME   440150.699 3762580.076 216.74
   LOCATION L0013294     VOLUME   440162.285 3762583.199 217.01
   LOCATION L0013295     VOLUME   440173.871 3762586.322 217.18
   LOCATION L0013296     VOLUME   440185.458 3762589.445 217.33
   LOCATION L0013297     VOLUME   440197.044 3762592.568 217.49
   LOCATION L0013298     VOLUME   440208.631 3762595.691 217.59
   LOCATION L0013299     VOLUME   440220.217 3762598.814 217.64
   LOCATION L0013300     VOLUME   440231.804 3762601.937 217.59
   LOCATION L0013301     VOLUME   440243.390 3762605.060 217.54
   LOCATION L0013302     VOLUME   440254.977 3762608.183 217.43
   LOCATION L0013303     VOLUME   440266.563 3762611.306 217.33
   LOCATION L0013304     VOLUME   440278.150 3762614.429 217.25
   LOCATION L0013305     VOLUME   440289.736 3762617.552 217.17
   LOCATION L0013306     VOLUME   440301.323 3762620.676 217.21
   LOCATION L0013307     VOLUME   440312.909 3762623.799 217.40
   LOCATION L0013308     VOLUME   440324.496 3762626.922 217.61
   LOCATION L0013309     VOLUME   440336.082 3762630.045 217.91
   LOCATION L0013310     VOLUME   440347.669 3762633.168 218.20
   LOCATION L0013311     VOLUME   440359.303 3762636.064 218.29
** End of LINE VOLUME Source ID = SLINE39
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Onsite Building 8
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.032493438
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440370.568, 3762567.100, 217.52, 3.11, 5.58
** 440275.748, 3762564.137, 215.57, 3.11, 5.58
** 440248.092, 3762555.742, 215.39, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013312     VOLUME   440364.571 3762566.913 217.25
   LOCATION L0013313     VOLUME   440352.577 3762566.538 216.81
   LOCATION L0013314     VOLUME   440340.582 3762566.163 216.37
   LOCATION L0013315     VOLUME   440328.588 3762565.788 215.92
   LOCATION L0013316     VOLUME   440316.594 3762565.414 215.63
   LOCATION L0013317     VOLUME   440304.600 3762565.039 215.60
   LOCATION L0013318     VOLUME   440292.606 3762564.664 215.58
   LOCATION L0013319     VOLUME   440280.612 3762564.289 215.60
   LOCATION L0013320     VOLUME   440268.922 3762562.065 215.51
   LOCATION L0013321     VOLUME   440257.439 3762558.579 215.52
** End of LINE VOLUME Source ID = SLINE13
** ----------------------------------------------------------------------
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** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Onsite Building 9
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057847769
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.778, 3762403.635, 214.16, 3.11, 5.58
** 440009.067, 3762407.585, 215.02, 3.11, 5.58
** 440010.055, 3762416.969, 215.13, 3.11, 5.58
** 440123.641, 3762419.932, 214.99, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013322     VOLUME   439917.773 3762403.878 214.06
   LOCATION L0013323     VOLUME   439929.763 3762404.365 213.82
   LOCATION L0013324     VOLUME   439941.753 3762404.852 213.63
   LOCATION L0013325     VOLUME   439953.743 3762405.339 213.47
   LOCATION L0013326     VOLUME   439965.733 3762405.826 213.51
   LOCATION L0013327     VOLUME   439977.723 3762406.313 213.84
   LOCATION L0013328     VOLUME   439989.714 3762406.800 214.20
   LOCATION L0013329     VOLUME   440001.704 3762407.286 214.68
   LOCATION L0013330     VOLUME   440009.552 3762412.191 215.01
   LOCATION L0013331     VOLUME   440017.248 3762417.156 215.19
   LOCATION L0013332     VOLUME   440029.244 3762417.469 215.29
   LOCATION L0013333     VOLUME   440041.240 3762417.782 215.34
   LOCATION L0013334     VOLUME   440053.236 3762418.095 215.22
   LOCATION L0013335     VOLUME   440065.232 3762418.408 215.11
   LOCATION L0013336     VOLUME   440077.227 3762418.721 215.03
   LOCATION L0013337     VOLUME   440089.223 3762419.034 214.95
   LOCATION L0013338     VOLUME   440101.219 3762419.347 214.97
   LOCATION L0013339     VOLUME   440113.215 3762419.660 214.99
** End of LINE VOLUME Source ID = SLINE14
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC Onsite Building 10
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057454068
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439910.790, 3762403.635, 214.16, 3.11, 5.58
** 440002.647, 3762408.573, 214.95, 3.11, 5.58
** 440012.524, 3762396.227, 214.97, 3.11, 5.58
** 440123.641, 3762393.758, 214.57, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013340     VOLUME   439916.781 3762403.957 214.08
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   LOCATION L0013341     VOLUME   439928.764 3762404.601 213.85
   LOCATION L0013342     VOLUME   439940.747 3762405.245 213.65
   LOCATION L0013343     VOLUME   439952.730 3762405.889 213.49
   LOCATION L0013344     VOLUME   439964.712 3762406.534 213.50
   LOCATION L0013345     VOLUME   439976.695 3762407.178 213.83
   LOCATION L0013346     VOLUME   439988.678 3762407.822 214.18
   LOCATION L0013347     VOLUME   440000.660 3762408.466 214.65
   LOCATION L0013348     VOLUME   440008.900 3762400.756 214.91
   LOCATION L0013349     VOLUME   440018.722 3762396.089 215.05
   LOCATION L0013350     VOLUME   440030.719 3762395.823 215.09
   LOCATION L0013351     VOLUME   440042.716 3762395.556 215.05
   LOCATION L0013352     VOLUME   440054.713 3762395.289 214.89
   LOCATION L0013353     VOLUME   440066.710 3762395.023 214.76
   LOCATION L0013354     VOLUME   440078.707 3762394.756 214.71
   LOCATION L0013355     VOLUME   440090.704 3762394.490 214.67
   LOCATION L0013356     VOLUME   440102.701 3762394.223 214.68
   LOCATION L0013357     VOLUME   440114.698 3762393.956 214.69
** End of LINE VOLUME Source ID = SLINE15
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Onsite Building 11
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.059317585
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.308, 3762405.338, 214.18, 3.11, 5.58
** 440007.437, 3762407.437, 215.01, 3.11, 5.58
** 440007.017, 3762503.146, 215.85, 3.11, 5.58
** 439978.892, 3762483.837, 214.97, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013358     VOLUME   439917.306 3762405.469 214.09
   LOCATION L0013359     VOLUME   439929.304 3762405.731 213.85
   LOCATION L0013360     VOLUME   439941.301 3762405.993 213.66
   LOCATION L0013361     VOLUME   439953.298 3762406.255 213.49
   LOCATION L0013362     VOLUME   439965.295 3762406.517 213.51
   LOCATION L0013363     VOLUME   439977.292 3762406.779 213.83
   LOCATION L0013364     VOLUME   439989.289 3762407.041 214.19
   LOCATION L0013365     VOLUME   440001.286 3762407.303 214.66
   LOCATION L0013366     VOLUME   440007.411 3762413.286 214.94
   LOCATION L0013367     VOLUME   440007.359 3762425.285 215.02
   LOCATION L0013368     VOLUME   440007.306 3762437.285 215.03
   LOCATION L0013369     VOLUME   440007.253 3762449.285 215.03
   LOCATION L0013370     VOLUME   440007.201 3762461.285 215.08
   LOCATION L0013371     VOLUME   440007.148 3762473.285 215.17
   LOCATION L0013372     VOLUME   440007.095 3762485.285 215.26
   LOCATION L0013373     VOLUME   440007.043 3762497.285 215.53
   LOCATION L0013374     VOLUME   440001.957 3762499.672 215.49
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   LOCATION L0013375     VOLUME   439992.064 3762492.880 215.19
   LOCATION L0013376     VOLUME   439982.171 3762486.088 214.99
** End of LINE VOLUME Source ID = SLINE16
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Onsite Building 12
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.051417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.728, 3762405.338, 214.18, 3.11, 5.58
** 440004.918, 3762406.598, 214.98, 3.11, 5.58
** 440007.437, 3762332.297, 213.67, 3.11, 5.58
** 439979.732, 3762326.420, 213.41, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013377     VOLUME   439917.727 3762405.420 214.08
   LOCATION L0013378     VOLUME   439929.726 3762405.582 213.84
   LOCATION L0013379     VOLUME   439941.725 3762405.744 213.65
   LOCATION L0013380     VOLUME   439953.724 3762405.906 213.48
   LOCATION L0013381     VOLUME   439965.723 3762406.068 213.51
   LOCATION L0013382     VOLUME   439977.722 3762406.230 213.83
   LOCATION L0013383     VOLUME   439989.721 3762406.392 214.19
   LOCATION L0013384     VOLUME   440001.719 3762406.555 214.67
   LOCATION L0013385     VOLUME   440005.216 3762397.802 214.73
   LOCATION L0013386     VOLUME   440005.623 3762385.809 214.57
   LOCATION L0013387     VOLUME   440006.029 3762373.816 214.34
   LOCATION L0013388     VOLUME   440006.436 3762361.822 214.10
   LOCATION L0013389     VOLUME   440006.842 3762349.829 213.93
   LOCATION L0013390     VOLUME   440007.249 3762337.836 213.75
   LOCATION L0013391     VOLUME   440001.119 3762330.957 213.59
   LOCATION L0013392     VOLUME   439989.381 3762328.467 213.46
** End of LINE VOLUME Source ID = SLINE17
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Onsite Building 13
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.045616798
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439912.567, 3762260.096, 212.15, 3.11, 5.58
** 440086.355, 3762258.417, 213.09, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013393     VOLUME   439918.567 3762260.038 212.19
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   LOCATION L0013394     VOLUME   439930.566 3762259.922 212.36
   LOCATION L0013395     VOLUME   439942.566 3762259.806 212.39
   LOCATION L0013396     VOLUME   439954.565 3762259.690 212.35
   LOCATION L0013397     VOLUME   439966.565 3762259.574 212.40
   LOCATION L0013398     VOLUME   439978.564 3762259.458 212.53
   LOCATION L0013399     VOLUME   439990.564 3762259.342 212.64
   LOCATION L0013400     VOLUME   440002.563 3762259.226 212.73
   LOCATION L0013401     VOLUME   440014.562 3762259.110 212.82
   LOCATION L0013402     VOLUME   440026.562 3762258.994 212.90
   LOCATION L0013403     VOLUME   440038.561 3762258.878 212.97
   LOCATION L0013404     VOLUME   440050.561 3762258.762 213.01
   LOCATION L0013405     VOLUME   440062.560 3762258.647 213.05
   LOCATION L0013406     VOLUME   440074.560 3762258.531 213.05
** End of LINE VOLUME Source ID = SLINE18
   LOCATION PAREA1       AREAPOLY   439975.943  3762818.332      219.590
** DESCRSRC Generator PA 1
   LOCATION PAREA2       AREAPOLY   439957.487  3762492.276      214.950
** DESCRSRC Generator PA 2
   LOCATION PAREA3       AREAPOLY   439958.855  3762265.335      212.460
** DESCRSRC Generator PA 3A
** Source Parameters **
** LINE VOLUME Source ID = SLINE26
   SRCPARAM L0013407     0.0146379      3.11      6.98      2.89
   SRCPARAM L0013408     0.0146379      3.11      6.98      2.89
   SRCPARAM L0013409     0.0146379      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0013410     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013411     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013412     0.0161864      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0013413     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013414     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013415     0.0128374667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0013416     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013417     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013418     0.0183218667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
   SRCPARAM L0013419     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013420     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013421     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013422     0.02302375      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0013423     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013424     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013425     0.03218388      3.11      6.98      2.89
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   SRCPARAM L0013426     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013427     0.03218388      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0013428     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013429     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013430     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013431     0.02344235      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0013432     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013433     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013434     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013435     0.024279575      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0013436     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013437     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013438     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013439     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013440     0.0217679      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0013441     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013442     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013443     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013444     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013445     0.01675994      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0013446     0.01423285      0.52      6.98      0.48
   SRCPARAM L0013447     0.01423285      0.52      6.98      0.48
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0013448     0.01256615      3.11      6.98      2.89
   SRCPARAM L0013449     0.01256615      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0013450     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013451     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013452     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013453     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013454     0.02478192      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0013092     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013093     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013094     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013095     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013096     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013097     0.003105101      3.11      5.58      2.89
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   SRCPARAM L0013098     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013099     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013100     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013101     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013102     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013103     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013104     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013105     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013106     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013107     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013108     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013109     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013110     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013111     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013112     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013113     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013114     0.003105101      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0013115     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013116     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013117     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013118     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013119     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013120     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013121     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013122     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013123     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013124     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013125     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013126     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013127     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013128     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013129     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013130     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013131     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013132     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013133     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013134     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013135     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013136     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013137     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013138     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013139     0.0031076116      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0013140     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013141     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013142     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013143     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013144     0.0031663088      3.11      5.58      2.89
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   SRCPARAM L0013145     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013146     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013147     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013148     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013149     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013150     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013151     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013152     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013153     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013154     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013155     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013156     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013157     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013158     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013159     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013160     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013161     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013162     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013163     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013164     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013165     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013166     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013167     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013168     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013169     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013170     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013171     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013172     0.0031663088      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0013173     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013174     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013175     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013176     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013177     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013178     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013179     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013180     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013181     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013182     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013183     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013184     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013185     0.0032545932      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0013186     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013187     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013188     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013189     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013190     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013191     0.0031415716      3.11      5.58      2.89
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   SRCPARAM L0013192     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013193     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013194     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013195     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013196     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013197     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013198     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013199     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013200     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013201     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013202     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013203     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013204     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013205     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013206     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013207     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013208     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013209     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013210     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013211     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013212     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013213     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013214     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013215     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013216     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013217     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013218     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013219     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013220     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013221     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013222     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013223     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013224     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013225     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013226     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013227     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013228     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013229     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013230     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013231     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013232     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013233     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013234     0.0031415716      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0013235     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013236     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013237     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013238     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013239     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013240     0.0032007874      0.52      5.58      0.48
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   SRCPARAM L0013241     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013242     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013243     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013244     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013245     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013246     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013247     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013248     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013249     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013250     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013251     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013252     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013253     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013254     0.0032007874      0.52      5.58      0.48
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0013255     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013256     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013257     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013258     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013259     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013260     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013261     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013262     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013263     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013264     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013265     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013266     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013267     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013268     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013269     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013270     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013271     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013272     0.0032152231      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE39
   SRCPARAM L0013273     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013274     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013275     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013276     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013277     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013278     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013279     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013280     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013281     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013282     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013283     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013284     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013285     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013286     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013287     0.0031825829      3.11      5.58      2.89
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   SRCPARAM L0013288     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013289     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013290     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013291     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013292     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013293     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013294     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013295     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013296     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013297     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013298     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013299     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013300     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013301     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013302     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013303     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013304     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013305     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013306     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013307     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013308     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013309     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013310     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013311     0.0031825829      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0013312     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013313     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013314     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013315     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013316     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013317     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013318     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013319     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013320     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013321     0.0032493438      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0013322     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013323     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013324     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013325     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013326     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013327     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013328     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013329     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013330     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013331     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013332     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013333     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013334     0.0032137649      3.11      5.58      2.89
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   SRCPARAM L0013335     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013336     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013337     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013338     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013339     0.0032137649      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0013340     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013341     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013342     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013343     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013344     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013345     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013346     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013347     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013348     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013349     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013350     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013351     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013352     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013353     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013354     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013355     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013356     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013357     0.0031918927      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0013358     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013359     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013360     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013361     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013362     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013363     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013364     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013365     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013366     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013367     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013368     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013369     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013370     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013371     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013372     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013373     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013374     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013375     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013376     0.0031219782      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0013377     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013378     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013379     0.0032135827      3.11      5.58      2.89
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   SRCPARAM L0013380     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013381     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013382     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013383     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013384     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013385     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013386     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013387     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013388     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013389     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013390     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013391     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013392     0.0032135827      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE18
   SRCPARAM L0013393     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013394     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013395     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013396     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013397     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013398     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013399     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013400     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013401     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013402     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013403     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013404     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013405     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013406     0.0032583427      3.11      5.58      2.89
** ------------------------------------------------------------------
   SRCPARAM PAREA1       7.7462E-06     5.000         5
   AREAVERT PAREA1       439975.943 3762818.332 440317.038 3762818.332
   AREAVERT PAREA1       440314.304 3762676.153 439968.424 3762587.974
   AREAVERT PAREA1       439969.108 3762819.700
   SRCPARAM PAREA2       8.4798E-06     5.000         9
   AREAVERT PAREA2       439957.487 3762492.276 439958.855 3762320.020
   AREAVERT PAREA2       440038.147 3762320.020 440037.464 3762357.616
   AREAVERT PAREA2       440154.352 3762357.616 440146.833 3762481.339
   AREAVERT PAREA2       440359.419 3762482.023 440353.267 3762577.721
   AREAVERT PAREA2       440271.240 3762571.569
   SRCPARAM PAREA3       4.0539E-06     5.000         5
   AREAVERT PAREA3       439958.855 3762265.335 439958.855 3762181.258
   AREAVERT PAREA3       440165.289 3762180.574 440159.820 3762266.703
   AREAVERT PAREA3       439956.804 3762268.070
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
```

```
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP P1ONRUN  L0013092 L0013093 L0013094 L0013095 L0013096 L0013097
SRCGROUP P1ONRUN  L0013098 L0013099 L0013100 L0013101 L0013102 L0013103
SRCGROUP P1ONRUN  L0013104 L0013105 L0013106 L0013107 L0013108 L0013109
SRCGROUP P1ONRUN  L0013110 L0013111 L0013112 L0013113 L0013114 L0013115
SRCGROUP P1ONRUN  L0013116 L0013117 L0013118 L0013119 L0013120 L0013121
SRCGROUP P1ONRUN  L0013122 L0013123 L0013124 L0013125 L0013126 L0013127
SRCGROUP P1ONRUN  L0013128 L0013129 L0013130 L0013131 L0013132 L0013133
SRCGROUP P1ONRUN  L0013134 L0013135 L0013136 L0013137 L0013138 L0013139
SRCGROUP P1ONRUN  L0013140 L0013141 L0013142 L0013143 L0013144 L0013145
SRCGROUP P1ONRUN  L0013146 L0013147 L0013148 L0013149 L0013150 L0013151
SRCGROUP P1ONRUN  L0013152 L0013153 L0013154 L0013155 L0013156 L0013157
SRCGROUP P1ONRUN  L0013158 L0013159 L0013160 L0013161 L0013162 L0013163
SRCGROUP P1ONRUN  L0013164 L0013165 L0013166 L0013167 L0013168 L0013169
SRCGROUP P1ONRUN  L0013170 L0013171 L0013172 L0013173 L0013174 L0013175
SRCGROUP P1ONRUN  L0013176 L0013177 L0013178 L0013179 L0013180 L0013181
SRCGROUP P1ONRUN  L0013182 L0013183 L0013184 L0013185 L0013186 L0013187
SRCGROUP P1ONRUN  L0013188 L0013189 L0013190 L0013191 L0013192 L0013193
SRCGROUP P1ONRUN  L0013194 L0013195 L0013196 L0013197 L0013198 L0013199
SRCGROUP P1ONRUN  L0013200 L0013201 L0013202 L0013203 L0013204 L0013205
SRCGROUP P1ONRUN  L0013206 L0013207 L0013208 L0013209 L0013210 L0013211
SRCGROUP P1ONRUN  L0013212 L0013213 L0013214 L0013215 L0013216 L0013217
SRCGROUP P1ONRUN  L0013218 L0013219 L0013220 L0013221 L0013222 L0013223
SRCGROUP P1ONRUN  L0013224 L0013225 L0013226 L0013227 L0013228 L0013229
SRCGROUP P1ONRUN  L0013230 L0013231 L0013232 L0013233 L0013234 L0013235
SRCGROUP P1ONRUN  L0013236 L0013237 L0013238 L0013239 L0013240 L0013241
SRCGROUP P1ONRUN  L0013242 L0013243 L0013244 L0013245 L0013246 L0013247
SRCGROUP P1ONRUN  L0013248 L0013249 L0013250 L0013251 L0013252 L0013253
SRCGROUP P1ONRUN  L0013254 L0013255 L0013256 L0013257 L0013258 L0013259
SRCGROUP P1ONRUN  L0013260 L0013261 L0013262 L0013263 L0013264 L0013265
SRCGROUP P1ONRUN  L0013266 L0013267 L0013268 L0013269 L0013270 L0013271
SRCGROUP P1ONRUN  L0013272 L0013273 L0013274 L0013275 L0013276 L0013277
SRCGROUP P1ONRUN  L0013278 L0013279 L0013280 L0013281 L0013282 L0013283
SRCGROUP P1ONRUN  L0013284 L0013285 L0013286 L0013287 L0013288 L0013289
SRCGROUP P1ONRUN  L0013290 L0013291 L0013292 L0013293 L0013294 L0013295
SRCGROUP P1ONRUN  L0013296 L0013297 L0013298 L0013299 L0013300 L0013301
SRCGROUP P1ONRUN  L0013302 L0013303 L0013304 L0013305 L0013306 L0013307
SRCGROUP P1ONRUN  L0013308 L0013309 L0013310 L0013311 L0013312 L0013313
SRCGROUP P1ONRUN  L0013314 L0013315 L0013316 L0013317 L0013318 L0013319
SRCGROUP P1ONRUN  L0013320 L0013321 L0013322 L0013323 L0013324 L0013325
SRCGROUP P1ONRUN  L0013326 L0013327 L0013328 L0013329 L0013330 L0013331
SRCGROUP P1ONRUN  L0013332 L0013333 L0013334 L0013335 L0013336 L0013337
SRCGROUP P1ONRUN  L0013338 L0013339 L0013340 L0013341 L0013342 L0013343
```

```
   SRCGROUP P1ONRUN  L0013344 L0013345 L0013346 L0013347 L0013348 L0013349
   SRCGROUP P1ONRUN  L0013350 L0013351 L0013352 L0013353 L0013354 L0013355
   SRCGROUP P1ONRUN  L0013356 L0013357 L0013358 L0013359 L0013360 L0013361
   SRCGROUP P1ONRUN  L0013362 L0013363 L0013364 L0013365 L0013366 L0013367
   SRCGROUP P1ONRUN  L0013368 L0013369 L0013370 L0013371 L0013372 L0013373
   SRCGROUP P1ONRUN  L0013374 L0013375 L0013376 L0013377 L0013378 L0013379
   SRCGROUP P1ONRUN  L0013380 L0013381 L0013382 L0013383 L0013384 L0013385
   SRCGROUP P1ONRUN  L0013386 L0013387 L0013388 L0013389 L0013390 L0013391
   SRCGROUP P1ONRUN  L0013392 L0013393 L0013394 L0013395 L0013396 L0013397
   SRCGROUP P1ONRUN  L0013398 L0013399 L0013400 L0013401 L0013402 L0013403
   SRCGROUP P1ONRUN  L0013404 L0013405 L0013406
   SRCGROUP P1ONIDLE L0013407 L0013408 L0013409 L0013410 L0013411 L0013412
   SRCGROUP P1ONIDLE L0013413 L0013414 L0013415 L0013416 L0013417 L0013418
   SRCGROUP P1ONIDLE L0013419 L0013420 L0013421 L0013422 L0013423 L0013424
   SRCGROUP P1ONIDLE L0013425 L0013426 L0013427 L0013428 L0013429 L0013430
   SRCGROUP P1ONIDLE L0013431 L0013432 L0013433 L0013434 L0013435 L0013436
   SRCGROUP P1ONIDLE L0013437 L0013438 L0013439 L0013440 L0013441 L0013442
   SRCGROUP P1ONIDLE L0013443 L0013444 L0013445 L0013446 L0013447 L0013448
   SRCGROUP P1ONIDLE L0013449 L0013450 L0013451 L0013452 L0013453 L0013454
   SRCGROUP P1GEN    PAREA1 PAREA2 PAREA3
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED P1Op_PM2_5.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
```

```
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST P1OP_PM2_5.AD\24H1GALL.PLT 31
   PLOTFILE 24 P1ONRUN 1ST P1OP_PM2_5.AD\24H1G001.PLT 32
   PLOTFILE 24 P1ONIDLE 1ST P1OP_PM2_5.AD\24H1G002.PLT 33
   PLOTFILE 24 P1GEN 1ST P1OP_PM2_5.AD\24H1G003.PLT 34
   PLOTFILE PERIOD ALL P1OP_PM2_5.AD\PE00GALL.PLT 35
   PLOTFILE PERIOD P1ONRUN P1OP_PM2_5.AD\PE00G001.PLT 36
   PLOTFILE PERIOD P1ONIDLE P1OP_PM2_5.AD\PE00G002.PLT 37
   PLOTFILE PERIOD P1GEN P1OP_PM2_5.AD\PE00G003.PLT 38
   SUMMFILE P1Op_PM2_5.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

```
** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/5/2023
** File: C:\Lakes\P1Op_PM2_5\P1Op_PM2_5.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid P1Op_PM2_5
   MODELOPT DFAULT CONC
   AVERTIME 24 PERIOD
   URBANOPT 2035210
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL P1Op_PM2_5.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE26
** DESCRSRC Building 1 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0439137
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439979.680, 3762795.008, 219.39, 3.11, 6.98
** 440019.164, 3762795.008, 219.45, 3.11, 6.98
** ------------------------------------------------------------------------
   LOCATION L0013407     VOLUME   439987.180 3762795.008 219.43
```

```
   LOCATION L0013408     VOLUME   440002.180 3762795.008 219.45
   LOCATION L0013409     VOLUME   440017.180 3762795.008 219.47
** End of LINE VOLUME Source ID = SLINE26
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE27
** DESCRSRC Building 2 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0485592
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439977.938, 3762735.201, 218.71, 3.11, 6.98
** 440018.584, 3762735.201, 218.82, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013410     VOLUME   439985.438 3762735.201 218.79
   LOCATION L0013411     VOLUME   440000.438 3762735.201 218.84
   LOCATION L0013412     VOLUME   440015.438 3762735.201 218.88
** End of LINE VOLUME Source ID = SLINE27
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE28
** DESCRSRC Building 3 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0385124
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439995.358, 3762633.007, 217.26, 3.11, 6.98
** 439995.938, 3762581.909, 216.46, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013413     VOLUME   439995.443 3762625.507 217.14
   LOCATION L0013414     VOLUME   439995.613 3762610.508 216.95
   LOCATION L0013415     VOLUME   439995.784 3762595.509 216.73
** End of LINE VOLUME Source ID = SLINE28
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE29
** DESCRSRC Building 4 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0549656
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440075.488, 3762801.976, 219.54, 3.11, 6.98
```

```
** 440117.294, 3762801.976, 219.49, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0013416     VOLUME   440082.988 3762801.976 219.48
   LOCATION L0013417     VOLUME   440097.988 3762801.976 219.47
   LOCATION L0013418     VOLUME   440112.988 3762801.976 219.49
** End of LINE VOLUME Source ID = SLINE29
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE30
** DESCRSRC Building 5 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.092095
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440078.391, 3762717.201, 218.56, 3.11, 6.98
** 440078.391, 3762659.136, 217.97, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0013419     VOLUME   440078.391 3762709.701 218.57
   LOCATION L0013420     VOLUME   440078.391 3762694.701 218.38
   LOCATION L0013421     VOLUME   440078.391 3762679.701 218.18
   LOCATION L0013422     VOLUME   440078.391 3762664.701 218.00
** End of LINE VOLUME Source ID = SLINE30
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE31
** DESCRSRC Building 6 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1609194
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440237.489, 3762788.041, 219.93, 3.11, 6.98
** 440238.651, 3762709.653, 219.12, 3.11, 6.98
** ----------------------------------------------------------------
   LOCATION L0013423     VOLUME   440237.600 3762780.541 219.88
   LOCATION L0013424     VOLUME   440237.823 3762765.543 219.78
   LOCATION L0013425     VOLUME   440238.045 3762750.545 219.62
   LOCATION L0013426     VOLUME   440238.267 3762735.546 219.44
   LOCATION L0013427     VOLUME   440238.489 3762720.548 219.27
** End of LINE VOLUME Source ID = SLINE31
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE32
** DESCRSRC Building 7 Idle
** PREFIX
** Length of Side = 15.00
```

```
** Configuration = Adjacent
** Emission Rate = 0.0937694
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440296.716, 3762795.008, 219.86, 3.11, 6.98
** 440296.716, 3762742.169, 218.72, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013428     VOLUME   440296.716 3762787.508 219.78
   LOCATION L0013429     VOLUME   440296.716 3762772.508 219.34
   LOCATION L0013430     VOLUME   440296.716 3762757.508 218.93
   LOCATION L0013431     VOLUME   440296.716 3762742.508 218.70
** End of LINE VOLUME Source ID = SLINE32
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE33
** DESCRSRC Building 8 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0971183
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440246.780, 3762543.586, 214.83, 3.11, 6.98
** 440301.942, 3762543.586, 214.44, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013432     VOLUME   440254.280 3762543.586 214.62
   LOCATION L0013433     VOLUME   440269.280 3762543.586 214.34
   LOCATION L0013434     VOLUME   440284.280 3762543.586 214.39
   LOCATION L0013435     VOLUME   440299.280 3762543.586 214.40
** End of LINE VOLUME Source ID = SLINE33
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE34
** DESCRSRC Building 9  Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1088395
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440053.423, 3762439.650, 215.38, 3.11, 6.98
** 440121.359, 3762440.230, 215.09, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013436     VOLUME   440060.923 3762439.714 215.39
   LOCATION L0013437     VOLUME   440075.922 3762439.842 215.27
   LOCATION L0013438     VOLUME   440090.921 3762439.970 215.16
   LOCATION L0013439     VOLUME   440105.921 3762440.098 215.11
   LOCATION L0013440     VOLUME   440120.920 3762440.227 215.12
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** End of LINE VOLUME Source ID = SLINE34
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE35
** DESCRSRC Building 10 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0837997
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440051.681, 3762374.617, 214.11, 3.11, 6.98
** 440121.940, 3762375.778, 214.33, 3.11, 6.98
** ------------------------------------------------------------------
   LOCATION L0013441     VOLUME   440059.180 3762374.741 214.42
   LOCATION L0013442     VOLUME   440074.178 3762374.989 214.38
   LOCATION L0013443     VOLUME   440089.176 3762375.237 214.35
   LOCATION L0013444     VOLUME   440104.174 3762375.484 214.32
   LOCATION L0013445     VOLUME   440119.172 3762375.732 214.26
** End of LINE VOLUME Source ID = SLINE35
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE36
** DESCRSRC Building 11 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0284657
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 2
** 439969.228, 3762487.263, 214.84, 0.52, 6.98
** 439995.938, 3762463.456, 214.83, 0.52, 6.98
** ------------------------------------------------------------------
   LOCATION L0013446     VOLUME   439974.827 3762482.273 214.89
   LOCATION L0013447     VOLUME   439986.025 3762472.292 214.87
** End of LINE VOLUME Source ID = SLINE36
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE37
** DESCRSRC Building 12 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.0251323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439972.712, 3762357.197, 213.29, 3.11, 6.98
** 439994.196, 3762332.229, 213.46, 3.11, 6.98
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** ----------------------------------------------------------------------
   LOCATION L0013448     VOLUME   439977.604 3762351.512 213.39
   LOCATION L0013449     VOLUME   439987.388 3762340.142 213.51
** End of LINE VOLUME Source ID = SLINE37
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE38
** DESCRSRC Building 13 Idle
** PREFIX
** Length of Side = 15.00
** Configuration = Adjacent
** Emission Rate = 0.1239096
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 440018.003, 3762237.583, 212.71, 3.11, 6.98
** 440088.262, 3762238.164, 212.91, 3.11, 6.98
** ----------------------------------------------------------------------
   LOCATION L0013450     VOLUME   440025.503 3762237.645 212.81
   LOCATION L0013451     VOLUME   440040.502 3762237.769 212.89
   LOCATION L0013452     VOLUME   440055.502 3762237.893 212.91
   LOCATION L0013453     VOLUME   440070.501 3762238.017 212.92
   LOCATION L0013454     VOLUME   440085.501 3762238.141 212.91
** End of LINE VOLUME Source ID = SLINE38
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE6
** DESCRSRC Onsite Building 1
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.071417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.723, 3762869.914, 220.47, 3.11, 5.58
** 440153.303, 3762781.342, 219.32, 3.11, 5.58
** 440038.286, 3762782.601, 219.42, 3.11, 5.58
** 440037.446, 3762773.786, 219.18, 3.11, 5.58
** 439977.839, 3762774.206, 219.07, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013092     VOLUME   440153.695 3762863.914 220.47
   LOCATION L0013093     VOLUME   440153.638 3762851.914 220.15
   LOCATION L0013094     VOLUME   440153.581 3762839.914 219.95
   LOCATION L0013095     VOLUME   440153.524 3762827.914 219.76
   LOCATION L0013096     VOLUME   440153.467 3762815.915 219.59
   LOCATION L0013097     VOLUME   440153.410 3762803.915 219.46
   LOCATION L0013098     VOLUME   440153.353 3762791.915 219.33
   LOCATION L0013099     VOLUME   440151.876 3762781.358 219.24
   LOCATION L0013100     VOLUME   440139.877 3762781.489 219.24
   LOCATION L0013101     VOLUME   440127.878 3762781.620 219.28
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   LOCATION L0013102     VOLUME   440115.878 3762781.752 219.32
   LOCATION L0013103     VOLUME   440103.879 3762781.883 219.31
   LOCATION L0013104     VOLUME   440091.880 3762782.015 219.31
   LOCATION L0013105     VOLUME   440079.881 3762782.146 219.34
   LOCATION L0013106     VOLUME   440067.881 3762782.277 219.36
   LOCATION L0013107     VOLUME   440055.882 3762782.409 219.37
   LOCATION L0013108     VOLUME   440043.883 3762782.540 219.38
   LOCATION L0013109     VOLUME   440037.679 3762776.227 219.32
   LOCATION L0013110     VOLUME   440027.899 3762773.853 219.30
   LOCATION L0013111     VOLUME   440015.899 3762773.938 219.29
   LOCATION L0013112     VOLUME   440003.899 3762774.022 219.27
   LOCATION L0013113     VOLUME   439991.900 3762774.107 219.24
   LOCATION L0013114     VOLUME   439979.900 3762774.191 219.21
** End of LINE VOLUME Source ID = SLINE6
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE7
** DESCRSRC Onsite Building 2
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.077690289
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440153.303, 3762869.494, 220.45, 3.11, 5.58
** 440153.723, 3762762.872, 219.11, 3.11, 5.58
** 440038.706, 3762761.613, 219.20, 3.11, 5.58
** 440037.866, 3762747.341, 218.83, 3.11, 5.58
** 439977.839, 3762746.501, 218.71, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013115     VOLUME   440153.327 3762863.494 220.46
   LOCATION L0013116     VOLUME   440153.374 3762851.494 220.14
   LOCATION L0013117     VOLUME   440153.421 3762839.494 219.95
   LOCATION L0013118     VOLUME   440153.469 3762827.495 219.75
   LOCATION L0013119     VOLUME   440153.516 3762815.495 219.59
   LOCATION L0013120     VOLUME   440153.563 3762803.495 219.46
   LOCATION L0013121     VOLUME   440153.610 3762791.495 219.33
   LOCATION L0013122     VOLUME   440153.658 3762779.495 219.23
   LOCATION L0013123     VOLUME   440153.705 3762767.495 219.14
   LOCATION L0013124     VOLUME   440146.346 3762762.791 219.06
   LOCATION L0013125     VOLUME   440134.347 3762762.660 219.07
   LOCATION L0013126     VOLUME   440122.348 3762762.529 219.11
   LOCATION L0013127     VOLUME   440110.349 3762762.397 219.13
   LOCATION L0013128     VOLUME   440098.349 3762762.266 219.14
   LOCATION L0013129     VOLUME   440086.350 3762762.134 219.16
   LOCATION L0013130     VOLUME   440074.351 3762762.003 219.18
   LOCATION L0013131     VOLUME   440062.351 3762761.872 219.19
   LOCATION L0013132     VOLUME   440050.352 3762761.740 219.20
   LOCATION L0013133     VOLUME   440038.685 3762761.261 219.20
   LOCATION L0013134     VOLUME   440037.980 3762749.281 219.06
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   LOCATION L0013135     VOLUME   440027.811 3762747.200 219.03
   LOCATION L0013136     VOLUME   440015.812 3762747.032 219.02
   LOCATION L0013137     VOLUME   440003.814 3762746.864 218.98
   LOCATION L0013138     VOLUME   439991.815 3762746.697 218.95
   LOCATION L0013139     VOLUME   439979.816 3762746.529 218.91
** End of LINE VOLUME Source ID = SLINE7
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE8
** DESCRSRC Onsite Building 3
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.104488189
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440152.464, 3762870.334, 220.46, 3.11, 5.58
** 440153.723, 3762630.644, 217.47, 3.11, 5.58
** 440047.521, 3762597.062, 217.53, 3.11, 5.58
** 440044.163, 3762611.754, 217.81, 3.11, 5.58
** 440012.260, 3762611.754, 217.20, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013140     VOLUME   440152.495 3762864.334 220.48
   LOCATION L0013141     VOLUME   440152.558 3762852.334 220.16
   LOCATION L0013142     VOLUME   440152.621 3762840.334 219.96
   LOCATION L0013143     VOLUME   440152.684 3762828.334 219.76
   LOCATION L0013144     VOLUME   440152.747 3762816.334 219.60
   LOCATION L0013145     VOLUME   440152.811 3762804.335 219.47
   LOCATION L0013146     VOLUME   440152.874 3762792.335 219.33
   LOCATION L0013147     VOLUME   440152.937 3762780.335 219.24
   LOCATION L0013148     VOLUME   440153.000 3762768.335 219.14
   LOCATION L0013149     VOLUME   440153.063 3762756.335 219.06
   LOCATION L0013150     VOLUME   440153.126 3762744.335 219.01
   LOCATION L0013151     VOLUME   440153.189 3762732.336 218.96
   LOCATION L0013152     VOLUME   440153.252 3762720.336 218.83
   LOCATION L0013153     VOLUME   440153.315 3762708.336 218.69
   LOCATION L0013154     VOLUME   440153.378 3762696.336 218.52
   LOCATION L0013155     VOLUME   440153.441 3762684.336 218.27
   LOCATION L0013156     VOLUME   440153.504 3762672.336 218.02
   LOCATION L0013157     VOLUME   440153.567 3762660.337 217.82
   LOCATION L0013158     VOLUME   440153.630 3762648.337 217.64
   LOCATION L0013159     VOLUME   440153.693 3762636.337 217.46
   LOCATION L0013160     VOLUME   440147.710 3762628.742 217.28
   LOCATION L0013161     VOLUME   440136.268 3762625.125 217.18
   LOCATION L0013162     VOLUME   440124.826 3762621.507 217.16
   LOCATION L0013163     VOLUME   440113.385 3762617.889 217.17
   LOCATION L0013164     VOLUME   440101.943 3762614.271 217.26
   LOCATION L0013165     VOLUME   440090.501 3762610.653 217.36
   LOCATION L0013166     VOLUME   440079.060 3762607.035 217.41
   LOCATION L0013167     VOLUME   440067.618 3762603.417 217.47
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   LOCATION L0013168     VOLUME   440056.177 3762599.799 217.54
   LOCATION L0013169     VOLUME   440046.870 3762599.911 217.62
   LOCATION L0013170     VOLUME   440044.196 3762611.609 217.83
   LOCATION L0013171     VOLUME   440032.312 3762611.754 217.71
   LOCATION L0013172     VOLUME   440020.312 3762611.754 217.40
** End of LINE VOLUME Source ID = SLINE8
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE9
** DESCRSRC Onite Building 4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.042309711
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440152.464, 3762869.914, 220.45, 3.11, 5.58
** 440152.884, 3762782.601, 219.33, 3.11, 5.58
** 440079.004, 3762783.021, 219.38, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013173     VOLUME   440152.493 3762863.914 220.47
   LOCATION L0013174     VOLUME   440152.550 3762851.914 220.15
   LOCATION L0013175     VOLUME   440152.608 3762839.914 219.95
   LOCATION L0013176     VOLUME   440152.666 3762827.914 219.76
   LOCATION L0013177     VOLUME   440152.723 3762815.915 219.60
   LOCATION L0013178     VOLUME   440152.781 3762803.915 219.46
   LOCATION L0013179     VOLUME   440152.839 3762791.915 219.33
   LOCATION L0013180     VOLUME   440150.197 3762782.617 219.25
   LOCATION L0013181     VOLUME   440138.197 3762782.685 219.26
   LOCATION L0013182     VOLUME   440126.198 3762782.753 219.30
   LOCATION L0013183     VOLUME   440114.198 3762782.821 219.33
   LOCATION L0013184     VOLUME   440102.198 3762782.889 219.32
   LOCATION L0013185     VOLUME   440090.198 3762782.958 219.32
** End of LINE VOLUME Source ID = SLINE9
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE10
** DESCRSRC Onsite Building 5
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.153937008
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 6
** 440152.884, 3762870.754, 220.48, 3.11, 5.58
** 440155.402, 3762635.681, 217.50, 3.11, 5.58
** 440062.633, 3762599.581, 217.46, 3.11, 5.58
** 440059.694, 3762709.981, 218.54, 3.11, 5.58
** 440058.855, 3762763.712, 219.18, 3.11, 5.58
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** 440146.587, 3762762.452, 219.03, 3.11, 5.58
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   LOCATION L0013186     VOLUME   440152.948 3762864.754 220.49
   LOCATION L0013187     VOLUME   440153.076 3762852.755 220.16
   LOCATION L0013188     VOLUME   440153.205 3762840.755 219.97
   LOCATION L0013189     VOLUME   440153.334 3762828.756 219.77
   LOCATION L0013190     VOLUME   440153.462 3762816.757 219.60
   LOCATION L0013191     VOLUME   440153.591 3762804.757 219.47
   LOCATION L0013192     VOLUME   440153.719 3762792.758 219.34
   LOCATION L0013193     VOLUME   440153.848 3762780.759 219.24
   LOCATION L0013194     VOLUME   440153.976 3762768.759 219.15
   LOCATION L0013195     VOLUME   440154.105 3762756.760 219.07
   LOCATION L0013196     VOLUME   440154.233 3762744.761 219.03
   LOCATION L0013197     VOLUME   440154.362 3762732.761 218.98
   LOCATION L0013198     VOLUME   440154.491 3762720.762 218.86
   LOCATION L0013199     VOLUME   440154.619 3762708.763 218.72
   LOCATION L0013200     VOLUME   440154.748 3762696.763 218.56
   LOCATION L0013201     VOLUME   440154.876 3762684.764 218.31
   LOCATION L0013202     VOLUME   440155.005 3762672.765 218.05
   LOCATION L0013203     VOLUME   440155.133 3762660.766 217.85
   LOCATION L0013204     VOLUME   440155.262 3762648.766 217.66
   LOCATION L0013205     VOLUME   440155.391 3762636.767 217.48
   LOCATION L0013206     VOLUME   440145.231 3762631.723 217.30
   LOCATION L0013207     VOLUME   440134.048 3762627.371 217.22
   LOCATION L0013208     VOLUME   440122.865 3762623.020 217.19
   LOCATION L0013209     VOLUME   440111.682 3762618.668 217.20
   LOCATION L0013210     VOLUME   440100.498 3762614.316 217.28
   LOCATION L0013211     VOLUME   440089.315 3762609.964 217.36
   LOCATION L0013212     VOLUME   440078.132 3762605.612 217.40
   LOCATION L0013213     VOLUME   440066.949 3762601.261 217.45
   LOCATION L0013214     VOLUME   440062.437 3762606.946 217.57
   LOCATION L0013215     VOLUME   440062.117 3762618.942 217.70
   LOCATION L0013216     VOLUME   440061.798 3762630.938 217.82
   LOCATION L0013217     VOLUME   440061.479 3762642.934 217.92
   LOCATION L0013218     VOLUME   440061.159 3762654.929 217.98
   LOCATION L0013219     VOLUME   440060.840 3762666.925 218.05
   LOCATION L0013220     VOLUME   440060.521 3762678.921 218.20
   LOCATION L0013221     VOLUME   440060.202 3762690.917 218.37
   LOCATION L0013222     VOLUME   440059.882 3762702.912 218.53
   LOCATION L0013223     VOLUME   440059.617 3762714.909 218.67
   LOCATION L0013224     VOLUME   440059.430 3762726.908 218.81
   LOCATION L0013225     VOLUME   440059.242 3762738.906 218.95
   LOCATION L0013226     VOLUME   440059.055 3762750.905 219.08
   LOCATION L0013227     VOLUME   440058.867 3762762.903 219.20
   LOCATION L0013228     VOLUME   440070.045 3762763.551 219.20
   LOCATION L0013229     VOLUME   440082.044 3762763.379 219.17
   LOCATION L0013230     VOLUME   440094.043 3762763.207 219.15
   LOCATION L0013231     VOLUME   440106.041 3762763.034 219.14
   LOCATION L0013232     VOLUME   440118.040 3762762.862 219.13
   LOCATION L0013233     VOLUME   440130.039 3762762.690 219.09
   LOCATION L0013234     VOLUME   440142.038 3762762.518 219.05
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** End of LINE VOLUME Source ID = SLINE10
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE11
** DESCRSRC Onsite Building 6
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.064015748
** Vertical Dimension = 1.04
** SZINIT = 0.48
** Nodes = 3
** 440369.066, 3762686.893, 218.77, 0.52, 5.58
** 440258.246, 3762657.929, 218.44, 0.52, 5.58
** 440253.629, 3762787.219, 219.89, 0.52, 5.58
** ------------------------------------------------------------------
   LOCATION L0013235     VOLUME   440363.261 3762685.376 218.72
   LOCATION L0013236     VOLUME   440351.651 3762682.342 218.66
   LOCATION L0013237     VOLUME   440340.041 3762679.307 218.47
   LOCATION L0013238     VOLUME   440328.431 3762676.273 218.22
   LOCATION L0013239     VOLUME   440316.821 3762673.238 218.02
   LOCATION L0013240     VOLUME   440305.211 3762670.204 217.91
   LOCATION L0013241     VOLUME   440293.601 3762667.170 217.90
   LOCATION L0013242     VOLUME   440281.991 3762664.135 218.20
   LOCATION L0013243     VOLUME   440270.381 3762661.101 218.46
   LOCATION L0013244     VOLUME   440258.771 3762658.066 218.42
   LOCATION L0013245     VOLUME   440257.837 3762669.380 218.64
   LOCATION L0013246     VOLUME   440257.409 3762681.372 218.78
   LOCATION L0013247     VOLUME   440256.981 3762693.364 218.92
   LOCATION L0013248     VOLUME   440256.552 3762705.357 219.04
   LOCATION L0013249     VOLUME   440256.124 3762717.349 219.15
   LOCATION L0013250     VOLUME   440255.696 3762729.341 219.25
   LOCATION L0013251     VOLUME   440255.268 3762741.334 219.43
   LOCATION L0013252     VOLUME   440254.839 3762753.326 219.61
   LOCATION L0013253     VOLUME   440254.411 3762765.318 219.74
   LOCATION L0013254     VOLUME   440253.983 3762777.311 219.81
** End of LINE VOLUME Source ID = SLINE11
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE12
** DESCRSRC Onsite Building 7
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057874016
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440368.646, 3762688.573, 218.78, 3.11, 5.58
** 440279.655, 3762665.065, 218.35, 3.11, 5.58
** 440278.395, 3762793.515, 219.79, 3.11, 5.58
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   LOCATION L0013255     VOLUME   440362.845 3762687.040 218.73
   LOCATION L0013256     VOLUME   440351.243 3762683.975 218.67
   LOCATION L0013257     VOLUME   440339.641 3762680.911 218.48
   LOCATION L0013258     VOLUME   440328.039 3762677.846 218.23
   LOCATION L0013259     VOLUME   440316.437 3762674.781 218.04
   LOCATION L0013260     VOLUME   440304.835 3762671.717 217.93
   LOCATION L0013261     VOLUME   440293.233 3762668.652 217.93
   LOCATION L0013262     VOLUME   440281.631 3762665.587 218.24
   LOCATION L0013263     VOLUME   440279.557 3762675.021 218.42
   LOCATION L0013264     VOLUME   440279.439 3762687.020 218.55
   LOCATION L0013265     VOLUME   440279.322 3762699.020 218.68
   LOCATION L0013266     VOLUME   440279.204 3762711.019 218.76
   LOCATION L0013267     VOLUME   440279.086 3762723.018 218.84
   LOCATION L0013268     VOLUME   440278.969 3762735.018 218.98
   LOCATION L0013269     VOLUME   440278.851 3762747.017 219.19
   LOCATION L0013270     VOLUME   440278.734 3762759.017 219.40
   LOCATION L0013271     VOLUME   440278.616 3762771.016 219.56
   LOCATION L0013272     VOLUME   440278.498 3762783.016 219.72
** End of LINE VOLUME Source ID = SLINE12
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE39
** DESCRSRC Onsite PA4
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.124120735
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.284, 3762525.123, 215.59, 3.11, 5.58
** 439990.794, 3762536.975, 215.91, 3.11, 5.58
** 440357.234, 3762635.746, 218.25, 3.11, 5.58
** 440370.074, 3762637.721, 218.37, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013273     VOLUME   439917.218 3762526.007 215.59
   LOCATION L0013274     VOLUME   439929.087 3762527.777 215.53
   LOCATION L0013275     VOLUME   439940.956 3762529.546 215.51
   LOCATION L0013276     VOLUME   439952.825 3762531.315 215.54
   LOCATION L0013277     VOLUME   439964.694 3762533.084 215.59
   LOCATION L0013278     VOLUME   439976.563 3762534.854 215.69
   LOCATION L0013279     VOLUME   439988.432 3762536.623 215.81
   LOCATION L0013280     VOLUME   440000.074 3762539.476 216.04
   LOCATION L0013281     VOLUME   440011.661 3762542.599 216.25
   LOCATION L0013282     VOLUME   440023.247 3762545.723 216.58
   LOCATION L0013283     VOLUME   440034.834 3762548.846 216.94
   LOCATION L0013284     VOLUME   440046.420 3762551.969 217.02
   LOCATION L0013285     VOLUME   440058.007 3762555.092 216.99
   LOCATION L0013286     VOLUME   440069.593 3762558.215 216.92
   LOCATION L0013287     VOLUME   440081.180 3762561.338 216.81
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   LOCATION L0013288     VOLUME   440092.766 3762564.461 216.69
   LOCATION L0013289     VOLUME   440104.353 3762567.584 216.56
   LOCATION L0013290     VOLUME   440115.939 3762570.707 216.42
   LOCATION L0013291     VOLUME   440127.526 3762573.830 216.46
   LOCATION L0013292     VOLUME   440139.112 3762576.953 216.50
   LOCATION L0013293     VOLUME   440150.699 3762580.076 216.74
   LOCATION L0013294     VOLUME   440162.285 3762583.199 217.01
   LOCATION L0013295     VOLUME   440173.871 3762586.322 217.18
   LOCATION L0013296     VOLUME   440185.458 3762589.445 217.33
   LOCATION L0013297     VOLUME   440197.044 3762592.568 217.49
   LOCATION L0013298     VOLUME   440208.631 3762595.691 217.59
   LOCATION L0013299     VOLUME   440220.217 3762598.814 217.64
   LOCATION L0013300     VOLUME   440231.804 3762601.937 217.59
   LOCATION L0013301     VOLUME   440243.390 3762605.060 217.54
   LOCATION L0013302     VOLUME   440254.977 3762608.183 217.43
   LOCATION L0013303     VOLUME   440266.563 3762611.306 217.33
   LOCATION L0013304     VOLUME   440278.150 3762614.429 217.25
   LOCATION L0013305     VOLUME   440289.736 3762617.552 217.17
   LOCATION L0013306     VOLUME   440301.323 3762620.676 217.21
   LOCATION L0013307     VOLUME   440312.909 3762623.799 217.40
   LOCATION L0013308     VOLUME   440324.496 3762626.922 217.61
   LOCATION L0013309     VOLUME   440336.082 3762630.045 217.91
   LOCATION L0013310     VOLUME   440347.669 3762633.168 218.20
   LOCATION L0013311     VOLUME   440359.303 3762636.064 218.29
** End of LINE VOLUME Source ID = SLINE39
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE13
** DESCRSRC Onsite Building 8
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.032493438
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 3
** 440370.568, 3762567.100, 217.52, 3.11, 5.58
** 440275.748, 3762564.137, 215.57, 3.11, 5.58
** 440248.092, 3762555.742, 215.39, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0013312     VOLUME   440364.571 3762566.913 217.25
   LOCATION L0013313     VOLUME   440352.577 3762566.538 216.81
   LOCATION L0013314     VOLUME   440340.582 3762566.163 216.37
   LOCATION L0013315     VOLUME   440328.588 3762565.788 215.92
   LOCATION L0013316     VOLUME   440316.594 3762565.414 215.63
   LOCATION L0013317     VOLUME   440304.600 3762565.039 215.60
   LOCATION L0013318     VOLUME   440292.606 3762564.664 215.58
   LOCATION L0013319     VOLUME   440280.612 3762564.289 215.60
   LOCATION L0013320     VOLUME   440268.922 3762562.065 215.51
   LOCATION L0013321     VOLUME   440257.439 3762558.579 215.52
** End of LINE VOLUME Source ID = SLINE13
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** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE14
** DESCRSRC Onsite Building 9
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057847769
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.778, 3762403.635, 214.16, 3.11, 5.58
** 440009.067, 3762407.585, 215.02, 3.11, 5.58
** 440010.055, 3762416.969, 215.13, 3.11, 5.58
** 440123.641, 3762419.932, 214.99, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0013322     VOLUME   439917.773 3762403.878 214.06
   LOCATION L0013323     VOLUME   439929.763 3762404.365 213.82
   LOCATION L0013324     VOLUME   439941.753 3762404.852 213.63
   LOCATION L0013325     VOLUME   439953.743 3762405.339 213.47
   LOCATION L0013326     VOLUME   439965.733 3762405.826 213.51
   LOCATION L0013327     VOLUME   439977.723 3762406.313 213.84
   LOCATION L0013328     VOLUME   439989.714 3762406.800 214.20
   LOCATION L0013329     VOLUME   440001.704 3762407.286 214.68
   LOCATION L0013330     VOLUME   440009.552 3762412.191 215.01
   LOCATION L0013331     VOLUME   440017.248 3762417.156 215.19
   LOCATION L0013332     VOLUME   440029.244 3762417.469 215.29
   LOCATION L0013333     VOLUME   440041.240 3762417.782 215.34
   LOCATION L0013334     VOLUME   440053.236 3762418.095 215.22
   LOCATION L0013335     VOLUME   440065.232 3762418.408 215.11
   LOCATION L0013336     VOLUME   440077.227 3762418.721 215.03
   LOCATION L0013337     VOLUME   440089.223 3762419.034 214.95
   LOCATION L0013338     VOLUME   440101.219 3762419.347 214.97
   LOCATION L0013339     VOLUME   440113.215 3762419.660 214.99
** End of LINE VOLUME Source ID = SLINE14
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE15
** DESCRSRC Onsite Building 10
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.057454068
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439910.790, 3762403.635, 214.16, 3.11, 5.58
** 440002.647, 3762408.573, 214.95, 3.11, 5.58
** 440012.524, 3762396.227, 214.97, 3.11, 5.58
** 440123.641, 3762393.758, 214.57, 3.11, 5.58
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   LOCATION L0013340     VOLUME   439916.781 3762403.957 214.08
   LOCATION L0013341     VOLUME   439928.764 3762404.601 213.85
   LOCATION L0013342     VOLUME   439940.747 3762405.245 213.65
   LOCATION L0013343     VOLUME   439952.730 3762405.889 213.49
   LOCATION L0013344     VOLUME   439964.712 3762406.534 213.50
   LOCATION L0013345     VOLUME   439976.695 3762407.178 213.83
   LOCATION L0013346     VOLUME   439988.678 3762407.822 214.18
   LOCATION L0013347     VOLUME   440000.660 3762408.466 214.65
   LOCATION L0013348     VOLUME   440008.900 3762400.756 214.91
   LOCATION L0013349     VOLUME   440018.722 3762396.089 215.05
   LOCATION L0013350     VOLUME   440030.719 3762395.823 215.09
   LOCATION L0013351     VOLUME   440042.716 3762395.556 215.05
   LOCATION L0013352     VOLUME   440054.713 3762395.289 214.89
   LOCATION L0013353     VOLUME   440066.710 3762395.023 214.76
   LOCATION L0013354     VOLUME   440078.707 3762394.756 214.71
   LOCATION L0013355     VOLUME   440090.704 3762394.490 214.67
   LOCATION L0013356     VOLUME   440102.701 3762394.223 214.68
   LOCATION L0013357     VOLUME   440114.698 3762393.956 214.69
** End of LINE VOLUME Source ID = SLINE15
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE16
** DESCRSRC Onsite Building 11
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.059317585
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.308, 3762405.338, 214.18, 3.11, 5.58
** 440007.437, 3762407.437, 215.01, 3.11, 5.58
** 440007.017, 3762503.146, 215.85, 3.11, 5.58
** 439978.892, 3762483.837, 214.97, 3.11, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013358     VOLUME   439917.306 3762405.469 214.09
   LOCATION L0013359     VOLUME   439929.304 3762405.731 213.85
   LOCATION L0013360     VOLUME   439941.301 3762405.993 213.66
   LOCATION L0013361     VOLUME   439953.298 3762406.255 213.49
   LOCATION L0013362     VOLUME   439965.295 3762406.517 213.51
   LOCATION L0013363     VOLUME   439977.292 3762406.779 213.83
   LOCATION L0013364     VOLUME   439989.289 3762407.041 214.19
   LOCATION L0013365     VOLUME   440001.286 3762407.303 214.66
   LOCATION L0013366     VOLUME   440007.411 3762413.286 214.94
   LOCATION L0013367     VOLUME   440007.359 3762425.285 215.02
   LOCATION L0013368     VOLUME   440007.306 3762437.285 215.03
   LOCATION L0013369     VOLUME   440007.253 3762449.285 215.03
   LOCATION L0013370     VOLUME   440007.201 3762461.285 215.08
   LOCATION L0013371     VOLUME   440007.148 3762473.285 215.17
   LOCATION L0013372     VOLUME   440007.095 3762485.285 215.26
   LOCATION L0013373     VOLUME   440007.043 3762497.285 215.53
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   LOCATION L0013374     VOLUME   440001.957 3762499.672 215.49
   LOCATION L0013375     VOLUME   439992.064 3762492.880 215.19
   LOCATION L0013376     VOLUME   439982.171 3762486.088 214.99
** End of LINE VOLUME Source ID = SLINE16
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE17
** DESCRSRC Onsite Building 12
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.051417323
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 4
** 439911.728, 3762405.338, 214.18, 3.11, 5.58
** 440004.918, 3762406.598, 214.98, 3.11, 5.58
** 440007.437, 3762332.297, 213.67, 3.11, 5.58
** 439979.732, 3762326.420, 213.41, 3.11, 5.58
** ------------------------------------------------------------------
   LOCATION L0013377     VOLUME   439917.727 3762405.420 214.08
   LOCATION L0013378     VOLUME   439929.726 3762405.582 213.84
   LOCATION L0013379     VOLUME   439941.725 3762405.744 213.65
   LOCATION L0013380     VOLUME   439953.724 3762405.906 213.48
   LOCATION L0013381     VOLUME   439965.723 3762406.068 213.51
   LOCATION L0013382     VOLUME   439977.722 3762406.230 213.83
   LOCATION L0013383     VOLUME   439989.721 3762406.392 214.19
   LOCATION L0013384     VOLUME   440001.719 3762406.555 214.67
   LOCATION L0013385     VOLUME   440005.216 3762397.802 214.73
   LOCATION L0013386     VOLUME   440005.623 3762385.809 214.57
   LOCATION L0013387     VOLUME   440006.029 3762373.816 214.34
   LOCATION L0013388     VOLUME   440006.436 3762361.822 214.10
   LOCATION L0013389     VOLUME   440006.842 3762349.829 213.93
   LOCATION L0013390     VOLUME   440007.249 3762337.836 213.75
   LOCATION L0013391     VOLUME   440001.119 3762330.957 213.59
   LOCATION L0013392     VOLUME   439989.381 3762328.467 213.46
** End of LINE VOLUME Source ID = SLINE17
** ------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE18
** DESCRSRC Onsite Building 13
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 0.045616798
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 2
** 439912.567, 3762260.096, 212.15, 3.11, 5.58
** 440086.355, 3762258.417, 213.09, 3.11, 5.58
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   LOCATION L0013393     VOLUME   439918.567 3762260.038 212.19
   LOCATION L0013394     VOLUME   439930.566 3762259.922 212.36
   LOCATION L0013395     VOLUME   439942.566 3762259.806 212.39
   LOCATION L0013396     VOLUME   439954.565 3762259.690 212.35
   LOCATION L0013397     VOLUME   439966.565 3762259.574 212.40
   LOCATION L0013398     VOLUME   439978.564 3762259.458 212.53
   LOCATION L0013399     VOLUME   439990.564 3762259.342 212.64
   LOCATION L0013400     VOLUME   440002.563 3762259.226 212.73
   LOCATION L0013401     VOLUME   440014.562 3762259.110 212.82
   LOCATION L0013402     VOLUME   440026.562 3762258.994 212.90
   LOCATION L0013403     VOLUME   440038.561 3762258.878 212.97
   LOCATION L0013404     VOLUME   440050.561 3762258.762 213.01
   LOCATION L0013405     VOLUME   440062.560 3762258.647 213.05
   LOCATION L0013406     VOLUME   440074.560 3762258.531 213.05
** End of LINE VOLUME Source ID = SLINE18
   LOCATION PAREA1       AREAPOLY   439975.943  3762818.332      219.590
** DESCRSRC Generator PA 1
   LOCATION PAREA2       AREAPOLY   439957.487  3762492.276      214.950
** DESCRSRC Generator PA 2
   LOCATION PAREA3       AREAPOLY   439958.855  3762265.335      212.460
** DESCRSRC Generator PA 3A
** Source Parameters **
** LINE VOLUME Source ID = SLINE26
   SRCPARAM L0013407     0.0146379      3.11      6.98      2.89
   SRCPARAM L0013408     0.0146379      3.11      6.98      2.89
   SRCPARAM L0013409     0.0146379      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE27
   SRCPARAM L0013410     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013411     0.0161864      3.11      6.98      2.89
   SRCPARAM L0013412     0.0161864      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE28
   SRCPARAM L0013413     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013414     0.0128374667      3.11      6.98      2.89
   SRCPARAM L0013415     0.0128374667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE29
   SRCPARAM L0013416     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013417     0.0183218667      3.11      6.98      2.89
   SRCPARAM L0013418     0.0183218667      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE30
   SRCPARAM L0013419     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013420     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013421     0.02302375      3.11      6.98      2.89
   SRCPARAM L0013422     0.02302375      3.11      6.98      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE31
   SRCPARAM L0013423     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013424     0.03218388      3.11      6.98      2.89
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   SRCPARAM L0013425     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013426     0.03218388      3.11      6.98      2.89
   SRCPARAM L0013427     0.03218388      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE32
   SRCPARAM L0013428     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013429     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013430     0.02344235      3.11      6.98      2.89
   SRCPARAM L0013431     0.02344235      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE33
   SRCPARAM L0013432     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013433     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013434     0.024279575      3.11      6.98      2.89
   SRCPARAM L0013435     0.024279575      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE34
   SRCPARAM L0013436     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013437     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013438     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013439     0.0217679      3.11      6.98      2.89
   SRCPARAM L0013440     0.0217679      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE35
   SRCPARAM L0013441     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013442     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013443     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013444     0.01675994      3.11      6.98      2.89
   SRCPARAM L0013445     0.01675994      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE36
   SRCPARAM L0013446     0.01423285      0.52      6.98      0.48
   SRCPARAM L0013447     0.01423285      0.52      6.98      0.48
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE37
   SRCPARAM L0013448     0.01256615      3.11      6.98      2.89
   SRCPARAM L0013449     0.01256615      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE38
   SRCPARAM L0013450     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013451     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013452     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013453     0.02478192      3.11      6.98      2.89
   SRCPARAM L0013454     0.02478192      3.11      6.98      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE6
   SRCPARAM L0013092     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013093     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013094     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013095     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013096     0.003105101      3.11      5.58      2.89
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   SRCPARAM L0013097     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013098     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013099     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013100     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013101     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013102     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013103     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013104     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013105     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013106     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013107     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013108     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013109     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013110     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013111     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013112     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013113     0.003105101      3.11      5.58      2.89
   SRCPARAM L0013114     0.003105101      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE7
   SRCPARAM L0013115     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013116     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013117     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013118     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013119     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013120     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013121     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013122     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013123     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013124     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013125     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013126     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013127     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013128     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013129     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013130     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013131     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013132     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013133     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013134     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013135     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013136     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013137     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013138     0.0031076116      3.11      5.58      2.89
   SRCPARAM L0013139     0.0031076116      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE8
   SRCPARAM L0013140     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013141     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013142     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013143     0.0031663088      3.11      5.58      2.89
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   SRCPARAM L0013144     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013145     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013146     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013147     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013148     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013149     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013150     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013151     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013152     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013153     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013154     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013155     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013156     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013157     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013158     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013159     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013160     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013161     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013162     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013163     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013164     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013165     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013166     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013167     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013168     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013169     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013170     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013171     0.0031663088      3.11      5.58      2.89
   SRCPARAM L0013172     0.0031663088      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE9
   SRCPARAM L0013173     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013174     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013175     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013176     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013177     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013178     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013179     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013180     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013181     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013182     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013183     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013184     0.0032545932      3.11      5.58      2.89
   SRCPARAM L0013185     0.0032545932      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE10
   SRCPARAM L0013186     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013187     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013188     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013189     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013190     0.0031415716      3.11      5.58      2.89
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   SRCPARAM L0013191     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013192     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013193     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013194     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013195     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013196     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013197     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013198     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013199     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013200     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013201     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013202     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013203     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013204     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013205     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013206     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013207     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013208     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013209     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013210     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013211     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013212     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013213     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013214     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013215     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013216     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013217     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013218     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013219     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013220     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013221     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013222     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013223     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013224     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013225     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013226     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013227     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013228     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013229     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013230     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013231     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013232     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013233     0.0031415716      3.11      5.58      2.89
   SRCPARAM L0013234     0.0031415716      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE11
   SRCPARAM L0013235     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013236     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013237     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013238     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013239     0.0032007874      0.52      5.58      0.48
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   SRCPARAM L0013240     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013241     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013242     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013243     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013244     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013245     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013246     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013247     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013248     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013249     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013250     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013251     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013252     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013253     0.0032007874      0.52      5.58      0.48
   SRCPARAM L0013254     0.0032007874      0.52      5.58      0.48
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE12
   SRCPARAM L0013255     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013256     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013257     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013258     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013259     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013260     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013261     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013262     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013263     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013264     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013265     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013266     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013267     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013268     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013269     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013270     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013271     0.0032152231      3.11      5.58      2.89
   SRCPARAM L0013272     0.0032152231      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE39
   SRCPARAM L0013273     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013274     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013275     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013276     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013277     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013278     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013279     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013280     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013281     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013282     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013283     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013284     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013285     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013286     0.0031825829      3.11      5.58      2.89
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   SRCPARAM L0013287     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013288     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013289     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013290     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013291     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013292     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013293     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013294     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013295     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013296     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013297     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013298     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013299     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013300     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013301     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013302     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013303     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013304     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013305     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013306     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013307     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013308     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013309     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013310     0.0031825829      3.11      5.58      2.89
   SRCPARAM L0013311     0.0031825829      3.11      5.58      2.89
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** LINE VOLUME Source ID = SLINE13
   SRCPARAM L0013312     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013313     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013314     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013315     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013316     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013317     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013318     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013319     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013320     0.0032493438      3.11      5.58      2.89
   SRCPARAM L0013321     0.0032493438      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE14
   SRCPARAM L0013322     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013323     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013324     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013325     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013326     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013327     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013328     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013329     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013330     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013331     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013332     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013333     0.0032137649      3.11      5.58      2.89
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   SRCPARAM L0013334     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013335     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013336     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013337     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013338     0.0032137649      3.11      5.58      2.89
   SRCPARAM L0013339     0.0032137649      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE15
   SRCPARAM L0013340     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013341     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013342     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013343     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013344     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013345     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013346     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013347     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013348     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013349     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013350     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013351     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013352     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013353     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013354     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013355     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013356     0.0031918927      3.11      5.58      2.89
   SRCPARAM L0013357     0.0031918927      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE16
   SRCPARAM L0013358     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013359     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013360     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013361     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013362     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013363     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013364     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013365     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013366     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013367     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013368     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013369     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013370     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013371     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013372     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013373     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013374     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013375     0.0031219782      3.11      5.58      2.89
   SRCPARAM L0013376     0.0031219782      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE17
   SRCPARAM L0013377     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013378     0.0032135827      3.11      5.58      2.89
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   SRCPARAM L0013379     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013380     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013381     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013382     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013383     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013384     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013385     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013386     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013387     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013388     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013389     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013390     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013391     0.0032135827      3.11      5.58      2.89
   SRCPARAM L0013392     0.0032135827      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE18
   SRCPARAM L0013393     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013394     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013395     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013396     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013397     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013398     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013399     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013400     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013401     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013402     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013403     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013404     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013405     0.0032583427      3.11      5.58      2.89
   SRCPARAM L0013406     0.0032583427      3.11      5.58      2.89
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   SRCPARAM PAREA1       7.7462E-06     5.000         5
   AREAVERT PAREA1       439975.943 3762818.332 440317.038 3762818.332
   AREAVERT PAREA1       440314.304 3762676.153 439968.424 3762587.974
   AREAVERT PAREA1       439969.108 3762819.700
   SRCPARAM PAREA2       8.4798E-06     5.000         9
   AREAVERT PAREA2       439957.487 3762492.276 439958.855 3762320.020
   AREAVERT PAREA2       440038.147 3762320.020 440037.464 3762357.616
   AREAVERT PAREA2       440154.352 3762357.616 440146.833 3762481.339
   AREAVERT PAREA2       440359.419 3762482.023 440353.267 3762577.721
   AREAVERT PAREA2       440271.240 3762571.569
   SRCPARAM PAREA3       4.0539E-06     5.000         5
   AREAVERT PAREA3       439958.855 3762265.335 439958.855 3762181.258
   AREAVERT PAREA3       440165.289 3762180.574 440159.820 3762266.703
   AREAVERT PAREA3       439956.804 3762268.070
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
```

```
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA1       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA2       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
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EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
EMISFACT PAREA3       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
SRCGROUP P1ONRUN  L0013092 L0013093 L0013094 L0013095 L0013096 L0013097
SRCGROUP P1ONRUN  L0013098 L0013099 L0013100 L0013101 L0013102 L0013103
SRCGROUP P1ONRUN  L0013104 L0013105 L0013106 L0013107 L0013108 L0013109
SRCGROUP P1ONRUN  L0013110 L0013111 L0013112 L0013113 L0013114 L0013115
SRCGROUP P1ONRUN  L0013116 L0013117 L0013118 L0013119 L0013120 L0013121
SRCGROUP P1ONRUN  L0013122 L0013123 L0013124 L0013125 L0013126 L0013127
SRCGROUP P1ONRUN  L0013128 L0013129 L0013130 L0013131 L0013132 L0013133
SRCGROUP P1ONRUN  L0013134 L0013135 L0013136 L0013137 L0013138 L0013139
SRCGROUP P1ONRUN  L0013140 L0013141 L0013142 L0013143 L0013144 L0013145
SRCGROUP P1ONRUN  L0013146 L0013147 L0013148 L0013149 L0013150 L0013151
SRCGROUP P1ONRUN  L0013152 L0013153 L0013154 L0013155 L0013156 L0013157
SRCGROUP P1ONRUN  L0013158 L0013159 L0013160 L0013161 L0013162 L0013163
SRCGROUP P1ONRUN  L0013164 L0013165 L0013166 L0013167 L0013168 L0013169
SRCGROUP P1ONRUN  L0013170 L0013171 L0013172 L0013173 L0013174 L0013175
SRCGROUP P1ONRUN  L0013176 L0013177 L0013178 L0013179 L0013180 L0013181
SRCGROUP P1ONRUN  L0013182 L0013183 L0013184 L0013185 L0013186 L0013187
SRCGROUP P1ONRUN  L0013188 L0013189 L0013190 L0013191 L0013192 L0013193
SRCGROUP P1ONRUN  L0013194 L0013195 L0013196 L0013197 L0013198 L0013199
SRCGROUP P1ONRUN  L0013200 L0013201 L0013202 L0013203 L0013204 L0013205
SRCGROUP P1ONRUN  L0013206 L0013207 L0013208 L0013209 L0013210 L0013211
SRCGROUP P1ONRUN  L0013212 L0013213 L0013214 L0013215 L0013216 L0013217
SRCGROUP P1ONRUN  L0013218 L0013219 L0013220 L0013221 L0013222 L0013223
SRCGROUP P1ONRUN  L0013224 L0013225 L0013226 L0013227 L0013228 L0013229
SRCGROUP P1ONRUN  L0013230 L0013231 L0013232 L0013233 L0013234 L0013235
SRCGROUP P1ONRUN  L0013236 L0013237 L0013238 L0013239 L0013240 L0013241
SRCGROUP P1ONRUN  L0013242 L0013243 L0013244 L0013245 L0013246 L0013247
SRCGROUP P1ONRUN  L0013248 L0013249 L0013250 L0013251 L0013252 L0013253
SRCGROUP P1ONRUN  L0013254 L0013255 L0013256 L0013257 L0013258 L0013259
SRCGROUP P1ONRUN  L0013260 L0013261 L0013262 L0013263 L0013264 L0013265
SRCGROUP P1ONRUN  L0013266 L0013267 L0013268 L0013269 L0013270 L0013271
SRCGROUP P1ONRUN  L0013272 L0013273 L0013274 L0013275 L0013276 L0013277
SRCGROUP P1ONRUN  L0013278 L0013279 L0013280 L0013281 L0013282 L0013283
SRCGROUP P1ONRUN  L0013284 L0013285 L0013286 L0013287 L0013288 L0013289
SRCGROUP P1ONRUN  L0013290 L0013291 L0013292 L0013293 L0013294 L0013295
SRCGROUP P1ONRUN  L0013296 L0013297 L0013298 L0013299 L0013300 L0013301
SRCGROUP P1ONRUN  L0013302 L0013303 L0013304 L0013305 L0013306 L0013307
SRCGROUP P1ONRUN  L0013308 L0013309 L0013310 L0013311 L0013312 L0013313
SRCGROUP P1ONRUN  L0013314 L0013315 L0013316 L0013317 L0013318 L0013319
SRCGROUP P1ONRUN  L0013320 L0013321 L0013322 L0013323 L0013324 L0013325
SRCGROUP P1ONRUN  L0013326 L0013327 L0013328 L0013329 L0013330 L0013331
SRCGROUP P1ONRUN  L0013332 L0013333 L0013334 L0013335 L0013336 L0013337
```

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   SRCGROUP P1ONRUN  L0013338 L0013339 L0013340 L0013341 L0013342 L0013343
   SRCGROUP P1ONRUN  L0013344 L0013345 L0013346 L0013347 L0013348 L0013349
   SRCGROUP P1ONRUN  L0013350 L0013351 L0013352 L0013353 L0013354 L0013355
   SRCGROUP P1ONRUN  L0013356 L0013357 L0013358 L0013359 L0013360 L0013361
   SRCGROUP P1ONRUN  L0013362 L0013363 L0013364 L0013365 L0013366 L0013367
   SRCGROUP P1ONRUN  L0013368 L0013369 L0013370 L0013371 L0013372 L0013373
   SRCGROUP P1ONRUN  L0013374 L0013375 L0013376 L0013377 L0013378 L0013379
   SRCGROUP P1ONRUN  L0013380 L0013381 L0013382 L0013383 L0013384 L0013385
   SRCGROUP P1ONRUN  L0013386 L0013387 L0013388 L0013389 L0013390 L0013391
   SRCGROUP P1ONRUN  L0013392 L0013393 L0013394 L0013395 L0013396 L0013397
   SRCGROUP P1ONRUN  L0013398 L0013399 L0013400 L0013401 L0013402 L0013403
   SRCGROUP P1ONRUN  L0013404 L0013405 L0013406
   SRCGROUP P1ONIDLE L0013407 L0013408 L0013409 L0013410 L0013411 L0013412
   SRCGROUP P1ONIDLE L0013413 L0013414 L0013415 L0013416 L0013417 L0013418
   SRCGROUP P1ONIDLE L0013419 L0013420 L0013421 L0013422 L0013423 L0013424
   SRCGROUP P1ONIDLE L0013425 L0013426 L0013427 L0013428 L0013429 L0013430
   SRCGROUP P1ONIDLE L0013431 L0013432 L0013433 L0013434 L0013435 L0013436
   SRCGROUP P1ONIDLE L0013437 L0013438 L0013439 L0013440 L0013441 L0013442
   SRCGROUP P1ONIDLE L0013443 L0013444 L0013445 L0013446 L0013447 L0013448
   SRCGROUP P1ONIDLE L0013449 L0013450 L0013451 L0013452 L0013453 L0013454
   SRCGROUP P1GEN    PAREA1 PAREA2 PAREA3
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED P1Op_PM2_5.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
```

```
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 24 ALL 1ST P1OP_PM2_5.AD\24H1GALL.PLT 31
   PLOTFILE 24 P1ONRUN 1ST P1OP_PM2_5.AD\24H1G001.PLT 32
   PLOTFILE 24 P1ONIDLE 1ST P1OP_PM2_5.AD\24H1G002.PLT 33
   PLOTFILE 24 P1GEN 1ST P1OP_PM2_5.AD\24H1G003.PLT 34
   PLOTFILE PERIOD ALL P1OP_PM2_5.AD\PE00GALL.PLT 35
   PLOTFILE PERIOD P1ONRUN P1OP_PM2_5.AD\PE00G001.PLT 36
   PLOTFILE PERIOD P1ONIDLE P1OP_PM2_5.AD\PE00G002.PLT 37
   PLOTFILE PERIOD P1GEN P1OP_PM2_5.AD\PE00G003.PLT 38
   SUMMFILE P1Op_PM2_5.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***


    ********   WARNING MESSAGES   ********
 ME W186    1421       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187    1421       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 *********************************
 *** SETUP Finishes Successfully ***
 *********************************

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                           ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                           ***       13:58:33

                                     PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                                ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - -
```

```
 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for   366 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_2.5

 **Model Calculates  1 Short Term Average(s) of:  24-HR
    and Calculates PERIOD Averages

 **This Run Includes:    366 Source(s);       4 Source Group(s); and     528
Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:    363 VOLUME source(s)
                and:      3 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
```

Model Outputs Tables of PERIOD Averages by Receptor
Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE Keyword)
Model Outputs External File(s) of High Values for Plotting (PLOTFILE Keyword)
Model Outputs Separate Summary File of High Ranked Values (SUMMFILE Keyword)

**NOTE: The Following Flags May Appear Following CONC Values: c for Calm Hours
m for Missing Hours
b for Both Calm and Missing Hours

**Misc. Inputs: Base Elev. for Pot. Temp. Profile (m MSL) = 198.00 ; Decay Coef. = 0.000 ; Rot. Angle = 0.0
Emission Units = GRAMS/SEC ;
Emission Rate Unit Factor = 0.10000E+07
Output Units = MICROGRAMS/M**3

**Approximate Storage Requirements of Model = 4.4 MB of RAM.

**Input Runstream File: aermod.inp

**Output Print File: aermod.out

**Detailed Error/Message File: P1Op_PM2_5.err

**File for Summary of Results: P1Op_PM2_5.sum

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	ADJ_U* EMISSION RATE SCALAR VARY
L0013407	0	0.14638E-01	439987.2	3762795.0	219.4	3.11	6.98			

```
2.89     YES
 L0013408         0   0.14638E-01  440002.2 3762795.0   219.5     3.11     6.98
2.89     YES
 L0013409         0   0.14638E-01  440017.2 3762795.0   219.5     3.11     6.98
2.89     YES
 L0013410         0   0.16186E-01  439985.4 3762735.2   218.8     3.11     6.98
2.89     YES
 L0013411         0   0.16186E-01  440000.4 3762735.2   218.8     3.11     6.98
2.89     YES
 L0013412         0   0.16186E-01  440015.4 3762735.2   218.9     3.11     6.98
2.89     YES
 L0013413         0   0.12837E-01  439995.4 3762625.5   217.1     3.11     6.98
2.89     YES
 L0013414         0   0.12837E-01  439995.6 3762610.5   217.0     3.11     6.98
2.89     YES
 L0013415         0   0.12837E-01  439995.8 3762595.5   216.7     3.11     6.98
2.89     YES
 L0013416         0   0.18322E-01  440083.0 3762802.0   219.5     3.11     6.98
2.89     YES
 L0013417         0   0.18322E-01  440098.0 3762802.0   219.5     3.11     6.98
2.89     YES
 L0013418         0   0.18322E-01  440113.0 3762802.0   219.5     3.11     6.98
2.89     YES
 L0013419         0   0.23024E-01  440078.4 3762709.7   218.6     3.11     6.98
2.89     YES
 L0013420         0   0.23024E-01  440078.4 3762694.7   218.4     3.11     6.98
2.89     YES
 L0013421         0   0.23024E-01  440078.4 3762679.7   218.2     3.11     6.98
2.89     YES
 L0013422         0   0.23024E-01  440078.4 3762664.7   218.0     3.11     6.98
2.89     YES
 L0013423         0   0.32184E-01  440237.6 3762780.5   219.9     3.11     6.98
2.89     YES
 L0013424         0   0.32184E-01  440237.8 3762765.5   219.8     3.11     6.98
2.89     YES
 L0013425         0   0.32184E-01  440238.0 3762750.5   219.6     3.11     6.98
2.89     YES
 L0013426         0   0.32184E-01  440238.3 3762735.5   219.4     3.11     6.98
2.89     YES
 L0013427         0   0.32184E-01  440238.5 3762720.5   219.3     3.11     6.98
2.89     YES
 L0013428         0   0.23442E-01  440296.7 3762787.5   219.8     3.11     6.98
2.89     YES
 L0013429         0   0.23442E-01  440296.7 3762772.5   219.3     3.11     6.98
2.89     YES
 L0013430         0   0.23442E-01  440296.7 3762757.5   218.9     3.11     6.98
2.89     YES
 L0013431         0   0.23442E-01  440296.7 3762742.5   218.7     3.11     6.98
2.89     YES
 L0013432         0   0.24280E-01  440254.3 3762543.6   214.6     3.11     6.98
2.89     YES
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 L0013433         0   0.24280E-01  440269.3 3762543.6   214.3     3.11     6.98
2.89     YES
 L0013434         0   0.24280E-01  440284.3 3762543.6   214.4     3.11     6.98
2.89     YES
 L0013435         0   0.24280E-01  440299.3 3762543.6   214.4     3.11     6.98
2.89     YES
 L0013436         0   0.21768E-01  440060.9 3762439.7   215.4     3.11     6.98
2.89     YES
 L0013437         0   0.21768E-01  440075.9 3762439.8   215.3     3.11     6.98
2.89     YES
 L0013438         0   0.21768E-01  440090.9 3762440.0   215.2     3.11     6.98
2.89     YES
 L0013439         0   0.21768E-01  440105.9 3762440.1   215.1     3.11     6.98
2.89     YES
 L0013440         0   0.21768E-01  440120.9 3762440.2   215.1     3.11     6.98
2.89     YES
 L0013441         0   0.16760E-01  440059.2 3762374.7   214.4     3.11     6.98
2.89     YES
 L0013442         0   0.16760E-01  440074.2 3762375.0   214.4     3.11     6.98
2.89     YES
 L0013443         0   0.16760E-01  440089.2 3762375.2   214.4     3.11     6.98
2.89     YES
 L0013444         0   0.16760E-01  440104.2 3762375.5   214.3     3.11     6.98
2.89     YES
 L0013445         0   0.16760E-01  440119.2 3762375.7   214.3     3.11     6.98
2.89     YES
 L0013446         0   0.14233E-01  439974.8 3762482.3   214.9     0.52     6.98
0.48     YES
```


*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE SCALAR VARY BY
L0013447	0	0.14233E-01	439986.0	3762472.3	214.9	0.52	6.98	0.48	YES
L0013448	0	0.12566E-01	439977.6	3762351.5	213.4	3.11	6.98		

```
2.89     YES
 L0013449         0   0.12566E-01  439987.4 3762340.1   213.5     3.11     6.98
2.89     YES
 L0013450         0   0.24782E-01  440025.5 3762237.6   212.8     3.11     6.98
2.89     YES
 L0013451         0   0.24782E-01  440040.5 3762237.8   212.9     3.11     6.98
2.89     YES
 L0013452         0   0.24782E-01  440055.5 3762237.9   212.9     3.11     6.98
2.89     YES
 L0013453         0   0.24782E-01  440070.5 3762238.0   212.9     3.11     6.98
2.89     YES
 L0013454         0   0.24782E-01  440085.5 3762238.1   212.9     3.11     6.98
2.89     YES
 L0013092         0   0.31051E-02  440153.7 3762863.9   220.5     3.11     5.58
2.89     YES
 L0013093         0   0.31051E-02  440153.6 3762851.9   220.2     3.11     5.58
2.89     YES
 L0013094         0   0.31051E-02  440153.6 3762839.9   220.0     3.11     5.58
2.89     YES
 L0013095         0   0.31051E-02  440153.5 3762827.9   219.8     3.11     5.58
2.89     YES
 L0013096         0   0.31051E-02  440153.5 3762815.9   219.6     3.11     5.58
2.89     YES
 L0013097         0   0.31051E-02  440153.4 3762803.9   219.5     3.11     5.58
2.89     YES
 L0013098         0   0.31051E-02  440153.4 3762791.9   219.3     3.11     5.58
2.89     YES
 L0013099         0   0.31051E-02  440151.9 3762781.4   219.2     3.11     5.58
2.89     YES
 L0013100         0   0.31051E-02  440139.9 3762781.5   219.2     3.11     5.58
2.89     YES
 L0013101         0   0.31051E-02  440127.9 3762781.6   219.3     3.11     5.58
2.89     YES
 L0013102         0   0.31051E-02  440115.9 3762781.8   219.3     3.11     5.58
2.89     YES
 L0013103         0   0.31051E-02  440103.9 3762781.9   219.3     3.11     5.58
2.89     YES
 L0013104         0   0.31051E-02  440091.9 3762782.0   219.3     3.11     5.58
2.89     YES
 L0013105         0   0.31051E-02  440079.9 3762782.1   219.3     3.11     5.58
2.89     YES
 L0013106         0   0.31051E-02  440067.9 3762782.3   219.4     3.11     5.58
2.89     YES
 L0013107         0   0.31051E-02  440055.9 3762782.4   219.4     3.11     5.58
2.89     YES
 L0013108         0   0.31051E-02  440043.9 3762782.5   219.4     3.11     5.58
2.89     YES
 L0013109         0   0.31051E-02  440037.7 3762776.2   219.3     3.11     5.58
2.89     YES
 L0013110         0   0.31051E-02  440027.9 3762773.9   219.3     3.11     5.58
2.89     YES
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 L0013111         0   0.31051E-02  440015.9 3762773.9   219.3     3.11     5.58
2.89     YES
 L0013112         0   0.31051E-02  440003.9 3762774.0   219.3     3.11     5.58
2.89     YES
 L0013113         0   0.31051E-02  439991.9 3762774.1   219.2     3.11     5.58
2.89     YES
 L0013114         0   0.31051E-02  439979.9 3762774.2   219.2     3.11     5.58
2.89     YES
 L0013115         0   0.31076E-02  440153.3 3762863.5   220.5     3.11     5.58
2.89     YES
 L0013116         0   0.31076E-02  440153.4 3762851.5   220.1     3.11     5.58
2.89     YES
 L0013117         0   0.31076E-02  440153.4 3762839.5   220.0     3.11     5.58
2.89     YES
 L0013118         0   0.31076E-02  440153.5 3762827.5   219.8     3.11     5.58
2.89     YES
 L0013119         0   0.31076E-02  440153.5 3762815.5   219.6     3.11     5.58
2.89     YES
 L0013120         0   0.31076E-02  440153.6 3762803.5   219.5     3.11     5.58
2.89     YES
 L0013121         0   0.31076E-02  440153.6 3762791.5   219.3     3.11     5.58
2.89     YES
 L0013122         0   0.31076E-02  440153.7 3762779.5   219.2     3.11     5.58
2.89     YES
 L0013123         0   0.31076E-02  440153.7 3762767.5   219.1     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0013124         0   0.31076E-02  440146.3 3762762.8   219.1     3.11     5.58
2.89     YES
 L0013125         0   0.31076E-02  440134.3 3762762.7   219.1     3.11     5.58
2.89     YES
 L0013126         0   0.31076E-02  440122.3 3762762.5   219.1     3.11     5.58
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2.89     YES
 L0013127         0   0.31076E-02  440110.3 3762762.4   219.1     3.11     5.58
2.89     YES
 L0013128         0   0.31076E-02  440098.3 3762762.3   219.1     3.11     5.58
2.89     YES
 L0013129         0   0.31076E-02  440086.3 3762762.1   219.2     3.11     5.58
2.89     YES
 L0013130         0   0.31076E-02  440074.4 3762762.0   219.2     3.11     5.58
2.89     YES
 L0013131         0   0.31076E-02  440062.4 3762761.9   219.2     3.11     5.58
2.89     YES
 L0013132         0   0.31076E-02  440050.4 3762761.7   219.2     3.11     5.58
2.89     YES
 L0013133         0   0.31076E-02  440038.7 3762761.3   219.2     3.11     5.58
2.89     YES
 L0013134         0   0.31076E-02  440038.0 3762749.3   219.1     3.11     5.58
2.89     YES
 L0013135         0   0.31076E-02  440027.8 3762747.2   219.0     3.11     5.58
2.89     YES
 L0013136         0   0.31076E-02  440015.8 3762747.0   219.0     3.11     5.58
2.89     YES
 L0013137         0   0.31076E-02  440003.8 3762746.9   219.0     3.11     5.58
2.89     YES
 L0013138         0   0.31076E-02  439991.8 3762746.7   219.0     3.11     5.58
2.89     YES
 L0013139         0   0.31076E-02  439979.8 3762746.5   218.9     3.11     5.58
2.89     YES
 L0013140         0   0.31663E-02  440152.5 3762864.3   220.5     3.11     5.58
2.89     YES
 L0013141         0   0.31663E-02  440152.6 3762852.3   220.2     3.11     5.58
2.89     YES
 L0013142         0   0.31663E-02  440152.6 3762840.3   220.0     3.11     5.58
2.89     YES
 L0013143         0   0.31663E-02  440152.7 3762828.3   219.8     3.11     5.58
2.89     YES
 L0013144         0   0.31663E-02  440152.7 3762816.3   219.6     3.11     5.58
2.89     YES
 L0013145         0   0.31663E-02  440152.8 3762804.3   219.5     3.11     5.58
2.89     YES
 L0013146         0   0.31663E-02  440152.9 3762792.3   219.3     3.11     5.58
2.89     YES
 L0013147         0   0.31663E-02  440152.9 3762780.3   219.2     3.11     5.58
2.89     YES
 L0013148         0   0.31663E-02  440153.0 3762768.3   219.1     3.11     5.58
2.89     YES
 L0013149         0   0.31663E-02  440153.1 3762756.3   219.1     3.11     5.58
2.89     YES
 L0013150         0   0.31663E-02  440153.1 3762744.3   219.0     3.11     5.58
2.89     YES
 L0013151         0   0.31663E-02  440153.2 3762732.3   219.0     3.11     5.58
2.89     YES
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 L0013152         0   0.31663E-02  440153.3 3762720.3   218.8     3.11     5.58
2.89     YES
 L0013153         0   0.31663E-02  440153.3 3762708.3   218.7     3.11     5.58
2.89     YES
 L0013154         0   0.31663E-02  440153.4 3762696.3   218.5     3.11     5.58
2.89     YES
 L0013155         0   0.31663E-02  440153.4 3762684.3   218.3     3.11     5.58
2.89     YES
 L0013156         0   0.31663E-02  440153.5 3762672.3   218.0     3.11     5.58
2.89     YES
 L0013157         0   0.31663E-02  440153.6 3762660.3   217.8     3.11     5.58
2.89     YES
 L0013158         0   0.31663E-02  440153.6 3762648.3   217.6     3.11     5.58
2.89     YES
 L0013159         0   0.31663E-02  440153.7 3762636.3   217.5     3.11     5.58
2.89     YES
 L0013160         0   0.31663E-02  440147.7 3762628.7   217.3     3.11     5.58
2.89     YES
 L0013161         0   0.31663E-02  440136.3 3762625.1   217.2     3.11     5.58
2.89     YES
 L0013162         0   0.31663E-02  440124.8 3762621.5   217.2     3.11     5.58
2.89     YES
 L0013163         0   0.31663E-02  440113.4 3762617.9   217.2     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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- - - - - - - - - - - - - - - - - - - -

 L0013164         0   0.31663E-02  440101.9 3762614.3   217.3     3.11     5.58
2.89     YES
 L0013165         0   0.31663E-02  440090.5 3762610.7   217.4     3.11     5.58
2.89     YES
 L0013166         0   0.31663E-02  440079.1 3762607.0   217.4     3.11     5.58
2.89     YES
 L0013167         0   0.31663E-02  440067.6 3762603.4   217.5     3.11     5.58
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2.89     YES
 L0013168         0   0.31663E-02  440056.2 3762599.8   217.5     3.11     5.58
2.89     YES
 L0013169         0   0.31663E-02  440046.9 3762599.9   217.6     3.11     5.58
2.89     YES
 L0013170         0   0.31663E-02  440044.2 3762611.6   217.8     3.11     5.58
2.89     YES
 L0013171         0   0.31663E-02  440032.3 3762611.8   217.7     3.11     5.58
2.89     YES
 L0013172         0   0.31663E-02  440020.3 3762611.8   217.4     3.11     5.58
2.89     YES
 L0013173         0   0.32546E-02  440152.5 3762863.9   220.5     3.11     5.58
2.89     YES
 L0013174         0   0.32546E-02  440152.5 3762851.9   220.2     3.11     5.58
2.89     YES
 L0013175         0   0.32546E-02  440152.6 3762839.9   220.0     3.11     5.58
2.89     YES
 L0013176         0   0.32546E-02  440152.7 3762827.9   219.8     3.11     5.58
2.89     YES
 L0013177         0   0.32546E-02  440152.7 3762815.9   219.6     3.11     5.58
2.89     YES
 L0013178         0   0.32546E-02  440152.8 3762803.9   219.5     3.11     5.58
2.89     YES
 L0013179         0   0.32546E-02  440152.8 3762791.9   219.3     3.11     5.58
2.89     YES
 L0013180         0   0.32546E-02  440150.2 3762782.6   219.2     3.11     5.58
2.89     YES
 L0013181         0   0.32546E-02  440138.2 3762782.7   219.3     3.11     5.58
2.89     YES
 L0013182         0   0.32546E-02  440126.2 3762782.8   219.3     3.11     5.58
2.89     YES
 L0013183         0   0.32546E-02  440114.2 3762782.8   219.3     3.11     5.58
2.89     YES
 L0013184         0   0.32546E-02  440102.2 3762782.9   219.3     3.11     5.58
2.89     YES
 L0013185         0   0.32546E-02  440090.2 3762783.0   219.3     3.11     5.58
2.89     YES
 L0013186         0   0.31416E-02  440152.9 3762864.8   220.5     3.11     5.58
2.89     YES
 L0013187         0   0.31416E-02  440153.1 3762852.8   220.2     3.11     5.58
2.89     YES
 L0013188         0   0.31416E-02  440153.2 3762840.8   220.0     3.11     5.58
2.89     YES
 L0013189         0   0.31416E-02  440153.3 3762828.8   219.8     3.11     5.58
2.89     YES
 L0013190         0   0.31416E-02  440153.5 3762816.8   219.6     3.11     5.58
2.89     YES
 L0013191         0   0.31416E-02  440153.6 3762804.8   219.5     3.11     5.58
2.89     YES
 L0013192         0   0.31416E-02  440153.7 3762792.8   219.3     3.11     5.58
2.89     YES
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*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE BY	EMISSION RATE SCALAR VARY
L0013193	0	0.31416E-02	440153.8	3762780.8	219.2	3.11	5.58	2.89	YES	
L0013194	0	0.31416E-02	440154.0	3762768.8	219.2	3.11	5.58	2.89	YES	
L0013195	0	0.31416E-02	440154.1	3762756.8	219.1	3.11	5.58	2.89	YES	
L0013196	0	0.31416E-02	440154.2	3762744.8	219.0	3.11	5.58	2.89	YES	
L0013197	0	0.31416E-02	440154.4	3762732.8	219.0	3.11	5.58	2.89	YES	
L0013198	0	0.31416E-02	440154.5	3762720.8	218.9	3.11	5.58	2.89	YES	
L0013199	0	0.31416E-02	440154.6	3762708.8	218.7	3.11	5.58	2.89	YES	
L0013200	0	0.31416E-02	440154.7	3762696.8	218.6	3.11	5.58	2.89	YES	
L0013201	0	0.31416E-02	440154.9	3762684.8	218.3	3.11	5.58	2.89	YES	
L0013202	0	0.31416E-02	440155.0	3762672.8	218.1	3.11	5.58	2.89	YES	
L0013203	0	0.31416E-02	440155.1	3762660.8	217.9	3.11	5.58	2.89	YES	
L0013204	0	0.31416E-02	440155.3	3762648.8	217.7	3.11	5.58	2.89	YES	
L0013205	0	0.31416E-02	440155.4	3762636.8	217.5	3.11	5.58	2.89	YES	
L0013206	0	0.31416E-02	440145.2	3762631.7	217.3	3.11	5.58	2.89	YES	
L0013207	0	0.31416E-02	440134.0	3762627.4	217.2	3.11	5.58	2.89	YES	
L0013208	0	0.31416E-02	440122.9	3762623.0	217.2	3.11	5.58			

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2.89     YES
 L0013209         0   0.31416E-02  440111.7 3762618.7   217.2     3.11     5.58
2.89     YES
 L0013210         0   0.31416E-02  440100.5 3762614.3   217.3     3.11     5.58
2.89     YES
 L0013211         0   0.31416E-02  440089.3 3762610.0   217.4     3.11     5.58
2.89     YES
 L0013212         0   0.31416E-02  440078.1 3762605.6   217.4     3.11     5.58
2.89     YES
 L0013213         0   0.31416E-02  440066.9 3762601.3   217.5     3.11     5.58
2.89     YES
 L0013214         0   0.31416E-02  440062.4 3762606.9   217.6     3.11     5.58
2.89     YES
 L0013215         0   0.31416E-02  440062.1 3762618.9   217.7     3.11     5.58
2.89     YES
 L0013216         0   0.31416E-02  440061.8 3762630.9   217.8     3.11     5.58
2.89     YES
 L0013217         0   0.31416E-02  440061.5 3762642.9   217.9     3.11     5.58
2.89     YES
 L0013218         0   0.31416E-02  440061.2 3762654.9   218.0     3.11     5.58
2.89     YES
 L0013219         0   0.31416E-02  440060.8 3762666.9   218.1     3.11     5.58
2.89     YES
 L0013220         0   0.31416E-02  440060.5 3762678.9   218.2     3.11     5.58
2.89     YES
 L0013221         0   0.31416E-02  440060.2 3762690.9   218.4     3.11     5.58
2.89     YES
 L0013222         0   0.31416E-02  440059.9 3762702.9   218.5     3.11     5.58
2.89     YES
 L0013223         0   0.31416E-02  440059.6 3762714.9   218.7     3.11     5.58
2.89     YES
 L0013224         0   0.31416E-02  440059.4 3762726.9   218.8     3.11     5.58
2.89     YES
 L0013225         0   0.31416E-02  440059.2 3762738.9   219.0     3.11     5.58
2.89     YES
 L0013226         0   0.31416E-02  440059.1 3762750.9   219.1     3.11     5.58
2.89     YES
 L0013227         0   0.31416E-02  440058.9 3762762.9   219.2     3.11     5.58
2.89     YES
 L0013228         0   0.31416E-02  440070.0 3762763.6   219.2     3.11     5.58
2.89     YES
 L0013229         0   0.31416E-02  440082.0 3762763.4   219.2     3.11     5.58
2.89     YES
 L0013230         0   0.31416E-02  440094.0 3762763.2   219.2     3.11     5.58
2.89     YES
 L0013231         0   0.31416E-02  440106.0 3762763.0   219.1     3.11     5.58
2.89     YES
 L0013232         0   0.31416E-02  440118.0 3762762.9   219.1     3.11     5.58
2.89     YES
 L0013233         0   0.31416E-02  440130.0 3762762.7   219.1     3.11     5.58
2.89     YES
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 L0013234   0   0.31416E-02 440142.0 3762762.5   219.1   3.11   5.58
2.89   YES
 L0013235   0   0.32008E-02 440363.3 3762685.4   218.7   0.52   5.58
0.48   YES
 L0013236   0   0.32008E-02 440351.7 3762682.3   218.7   0.52   5.58
0.48   YES
 L0013237   0   0.32008E-02 440340.0 3762679.3   218.5   0.52   5.58
0.48   YES
 L0013238   0   0.32008E-02 440328.4 3762676.3   218.2   0.52   5.58
0.48   YES
 L0013239   0   0.32008E-02 440316.8 3762673.2   218.0   0.52   5.58
0.48   YES
 L0013240   0   0.32008E-02 440305.2 3762670.2   217.9   0.52   5.58
0.48   YES
 L0013241   0   0.32008E-02 440293.6 3762667.2   217.9   0.52   5.58
0.48   YES
 L0013242   0   0.32008E-02 440282.0 3762664.1   218.2   0.52   5.58
0.48   YES
 L0013243   0   0.32008E-02 440270.4 3762661.1   218.5   0.52   5.58
0.48   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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- - - - - - - - - - - - - - - - - - - -

 L0013244   0   0.32008E-02 440258.8 3762658.1   218.4   0.52   5.58
0.48   YES
 L0013245   0   0.32008E-02 440257.8 3762669.4   218.6   0.52   5.58
0.48   YES
 L0013246   0   0.32008E-02 440257.4 3762681.4   218.8   0.52   5.58
0.48   YES
 L0013247   0   0.32008E-02 440257.0 3762693.4   218.9   0.52   5.58
0.48   YES
 L0013248   0   0.32008E-02 440256.6 3762705.4   219.0   0.52   5.58
0.48   YES
 L0013249   0   0.32008E-02 440256.1 3762717.3   219.2   0.52   5.58

```
0.48     YES
 L0013250         0   0.32008E-02  440255.7 3762729.3   219.2     0.52     5.58
0.48     YES
 L0013251         0   0.32008E-02  440255.3 3762741.3   219.4     0.52     5.58
0.48     YES
 L0013252         0   0.32008E-02  440254.8 3762753.3   219.6     0.52     5.58
0.48     YES
 L0013253         0   0.32008E-02  440254.4 3762765.3   219.7     0.52     5.58
0.48     YES
 L0013254         0   0.32008E-02  440254.0 3762777.3   219.8     0.52     5.58
0.48     YES
 L0013255         0   0.32152E-02  440362.8 3762687.0   218.7     3.11     5.58
2.89     YES
 L0013256         0   0.32152E-02  440351.2 3762684.0   218.7     3.11     5.58
2.89     YES
 L0013257         0   0.32152E-02  440339.6 3762680.9   218.5     3.11     5.58
2.89     YES
 L0013258         0   0.32152E-02  440328.0 3762677.8   218.2     3.11     5.58
2.89     YES
 L0013259         0   0.32152E-02  440316.4 3762674.8   218.0     3.11     5.58
2.89     YES
 L0013260         0   0.32152E-02  440304.8 3762671.7   217.9     3.11     5.58
2.89     YES
 L0013261         0   0.32152E-02  440293.2 3762668.7   217.9     3.11     5.58
2.89     YES
 L0013262         0   0.32152E-02  440281.6 3762665.6   218.2     3.11     5.58
2.89     YES
 L0013263         0   0.32152E-02  440279.6 3762675.0   218.4     3.11     5.58
2.89     YES
 L0013264         0   0.32152E-02  440279.4 3762687.0   218.6     3.11     5.58
2.89     YES
 L0013265         0   0.32152E-02  440279.3 3762699.0   218.7     3.11     5.58
2.89     YES
 L0013266         0   0.32152E-02  440279.2 3762711.0   218.8     3.11     5.58
2.89     YES
 L0013267         0   0.32152E-02  440279.1 3762723.0   218.8     3.11     5.58
2.89     YES
 L0013268         0   0.32152E-02  440279.0 3762735.0   219.0     3.11     5.58
2.89     YES
 L0013269         0   0.32152E-02  440278.9 3762747.0   219.2     3.11     5.58
2.89     YES
 L0013270         0   0.32152E-02  440278.7 3762759.0   219.4     3.11     5.58
2.89     YES
 L0013271         0   0.32152E-02  440278.6 3762771.0   219.6     3.11     5.58
2.89     YES
 L0013272         0   0.32152E-02  440278.5 3762783.0   219.7     3.11     5.58
2.89     YES
 L0013273         0   0.31826E-02  439917.2 3762526.0   215.6     3.11     5.58
2.89     YES
 L0013274         0   0.31826E-02  439929.1 3762527.8   215.5     3.11     5.58
2.89     YES
```

 L0013275   0   0.31826E-02 439941.0 3762529.5   215.5   3.11   5.58
2.89   YES
 L0013276   0   0.31826E-02 439952.8 3762531.3   215.5   3.11   5.58
2.89   YES
 L0013277   0   0.31826E-02 439964.7 3762533.1   215.6   3.11   5.58
2.89   YES
 L0013278   0   0.31826E-02 439976.6 3762534.9   215.7   3.11   5.58
2.89   YES
 L0013279   0   0.31826E-02 439988.4 3762536.6   215.8   3.11   5.58
2.89   YES
 L0013280   0   0.31826E-02 440000.1 3762539.5   216.0   3.11   5.58
2.89   YES
 L0013281   0   0.31826E-02 440011.7 3762542.6   216.2   3.11   5.58
2.89   YES
 L0013282   0   0.31826E-02 440023.2 3762545.7   216.6   3.11   5.58
2.89   YES
 L0013283   0   0.31826E-02 440034.8 3762548.8   216.9   3.11   5.58
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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2.89     YES
 L0013291         0   0.31826E-02  440127.5 3762573.8   216.5     3.11     5.58
2.89     YES
 L0013292         0   0.31826E-02  440139.1 3762577.0   216.5     3.11     5.58
2.89     YES
 L0013293         0   0.31826E-02  440150.7 3762580.1   216.7     3.11     5.58
2.89     YES
 L0013294         0   0.31826E-02  440162.3 3762583.2   217.0     3.11     5.58
2.89     YES
 L0013295         0   0.31826E-02  440173.9 3762586.3   217.2     3.11     5.58
2.89     YES
 L0013296         0   0.31826E-02  440185.5 3762589.4   217.3     3.11     5.58
2.89     YES
 L0013297         0   0.31826E-02  440197.0 3762592.6   217.5     3.11     5.58
2.89     YES
 L0013298         0   0.31826E-02  440208.6 3762595.7   217.6     3.11     5.58
2.89     YES
 L0013299         0   0.31826E-02  440220.2 3762598.8   217.6     3.11     5.58
2.89     YES
 L0013300         0   0.31826E-02  440231.8 3762601.9   217.6     3.11     5.58
2.89     YES
 L0013301         0   0.31826E-02  440243.4 3762605.1   217.5     3.11     5.58
2.89     YES
 L0013302         0   0.31826E-02  440255.0 3762608.2   217.4     3.11     5.58
2.89     YES
 L0013303         0   0.31826E-02  440266.6 3762611.3   217.3     3.11     5.58
2.89     YES
 L0013304         0   0.31826E-02  440278.1 3762614.4   217.2     3.11     5.58
2.89     YES
 L0013305         0   0.31826E-02  440289.7 3762617.6   217.2     3.11     5.58
2.89     YES
 L0013306         0   0.31826E-02  440301.3 3762620.7   217.2     3.11     5.58
2.89     YES
 L0013307         0   0.31826E-02  440312.9 3762623.8   217.4     3.11     5.58
2.89     YES
 L0013308         0   0.31826E-02  440324.5 3762626.9   217.6     3.11     5.58
2.89     YES
 L0013309         0   0.31826E-02  440336.1 3762630.0   217.9     3.11     5.58
2.89     YES
 L0013310         0   0.31826E-02  440347.7 3762633.2   218.2     3.11     5.58
2.89     YES
 L0013311         0   0.31826E-02  440359.3 3762636.1   218.3     3.11     5.58
2.89     YES
 L0013312         0   0.32493E-02  440364.6 3762566.9   217.2     3.11     5.58
2.89     YES
 L0013313         0   0.32493E-02  440352.6 3762566.5   216.8     3.11     5.58
2.89     YES
 L0013314         0   0.32493E-02  440340.6 3762566.2   216.4     3.11     5.58
2.89     YES
 L0013315         0   0.32493E-02  440328.6 3762565.8   215.9     3.11     5.58
2.89     YES
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 L0013316   0   0.32493E-02 440316.6 3762565.4   215.6   3.11   5.58
2.89   YES
 L0013317   0   0.32493E-02 440304.6 3762565.0   215.6   3.11   5.58
2.89   YES
 L0013318   0   0.32493E-02 440292.6 3762564.7   215.6   3.11   5.58
2.89   YES
 L0013319   0   0.32493E-02 440280.6 3762564.3   215.6   3.11   5.58
2.89   YES
 L0013320   0   0.32493E-02 440268.9 3762562.1   215.5   3.11   5.58
2.89   YES
 L0013321   0   0.32493E-02 440257.4 3762558.6   215.5   3.11   5.58
2.89   YES
 L0013322   0   0.32138E-02 439917.8 3762403.9   214.1   3.11   5.58
2.89   YES
 L0013323   0   0.32138E-02 439929.8 3762404.4   213.8   3.11   5.58
2.89   YES

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                    *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE   BASE   RELEASE   INIT.
INIT.   URBAN EMISSION RATE
   SOURCE   PART. (GRAMS/SEC)   X   Y   ELEV.   HEIGHT   SY
SZ   SOURCE SCALAR VARY
     ID   CATS.   (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)   BY
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 L0013324   0   0.32138E-02 439941.8 3762404.9   213.6   3.11   5.58
2.89   YES
 L0013325   0   0.32138E-02 439953.7 3762405.3   213.5   3.11   5.58
2.89   YES
 L0013326   0   0.32138E-02 439965.7 3762405.8   213.5   3.11   5.58
2.89   YES
 L0013327   0   0.32138E-02 439977.7 3762406.3   213.8   3.11   5.58
2.89   YES
 L0013328   0   0.32138E-02 439989.7 3762406.8   214.2   3.11   5.58
2.89   YES
 L0013329   0   0.32138E-02 440001.7 3762407.3   214.7   3.11   5.58
2.89   YES
 L0013330   0   0.32138E-02 440009.6 3762412.2   215.0   3.11   5.58
2.89   YES
 L0013331   0   0.32138E-02 440017.2 3762417.2   215.2   3.11   5.58

2.89 YES
L0013332 0 0.32138E-02 440029.2 3762417.5 215.3 3.11 5.58
2.89 YES
L0013333 0 0.32138E-02 440041.2 3762417.8 215.3 3.11 5.58
2.89 YES
L0013334 0 0.32138E-02 440053.2 3762418.1 215.2 3.11 5.58
2.89 YES
L0013335 0 0.32138E-02 440065.2 3762418.4 215.1 3.11 5.58
2.89 YES
L0013336 0 0.32138E-02 440077.2 3762418.7 215.0 3.11 5.58
2.89 YES
L0013337 0 0.32138E-02 440089.2 3762419.0 215.0 3.11 5.58
2.89 YES
L0013338 0 0.32138E-02 440101.2 3762419.3 215.0 3.11 5.58
2.89 YES
L0013339 0 0.32138E-02 440113.2 3762419.7 215.0 3.11 5.58
2.89 YES
L0013340 0 0.31919E-02 439916.8 3762404.0 214.1 3.11 5.58
2.89 YES
L0013341 0 0.31919E-02 439928.8 3762404.6 213.9 3.11 5.58
2.89 YES
L0013342 0 0.31919E-02 439940.7 3762405.2 213.7 3.11 5.58
2.89 YES
L0013343 0 0.31919E-02 439952.7 3762405.9 213.5 3.11 5.58
2.89 YES
L0013344 0 0.31919E-02 439964.7 3762406.5 213.5 3.11 5.58
2.89 YES
L0013345 0 0.31919E-02 439976.7 3762407.2 213.8 3.11 5.58
2.89 YES
L0013346 0 0.31919E-02 439988.7 3762407.8 214.2 3.11 5.58
2.89 YES
L0013347 0 0.31919E-02 440000.7 3762408.5 214.7 3.11 5.58
2.89 YES
L0013348 0 0.31919E-02 440008.9 3762400.8 214.9 3.11 5.58
2.89 YES
L0013349 0 0.31919E-02 440018.7 3762396.1 215.1 3.11 5.58
2.89 YES
L0013350 0 0.31919E-02 440030.7 3762395.8 215.1 3.11 5.58
2.89 YES
L0013351 0 0.31919E-02 440042.7 3762395.6 215.1 3.11 5.58
2.89 YES
L0013352 0 0.31919E-02 440054.7 3762395.3 214.9 3.11 5.58
2.89 YES
L0013353 0 0.31919E-02 440066.7 3762395.0 214.8 3.11 5.58
2.89 YES
L0013354 0 0.31919E-02 440078.7 3762394.8 214.7 3.11 5.58
2.89 YES
L0013355 0 0.31919E-02 440090.7 3762394.5 214.7 3.11 5.58
2.89 YES
L0013356 0 0.31919E-02 440102.7 3762394.2 214.7 3.11 5.58
2.89 YES

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 L0013357         0   0.31919E-02  440114.7 3762394.0   214.7     3.11     5.58
2.89     YES
 L0013358         0   0.31220E-02  439917.3 3762405.5   214.1     3.11     5.58
2.89     YES
 L0013359         0   0.31220E-02  439929.3 3762405.7   213.9     3.11     5.58
2.89     YES
 L0013360         0   0.31220E-02  439941.3 3762406.0   213.7     3.11     5.58
2.89     YES
 L0013361         0   0.31220E-02  439953.3 3762406.3   213.5     3.11     5.58
2.89     YES
 L0013362         0   0.31220E-02  439965.3 3762406.5   213.5     3.11     5.58
2.89     YES
 L0013363         0   0.31220E-02  439977.3 3762406.8   213.8     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                      *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0013364         0   0.31220E-02  439989.3 3762407.0   214.2     3.11     5.58
2.89     YES
 L0013365         0   0.31220E-02  440001.3 3762407.3   214.7     3.11     5.58
2.89     YES
 L0013366         0   0.31220E-02  440007.4 3762413.3   214.9     3.11     5.58
2.89     YES
 L0013367         0   0.31220E-02  440007.4 3762425.3   215.0     3.11     5.58
2.89     YES
 L0013368         0   0.31220E-02  440007.3 3762437.3   215.0     3.11     5.58
2.89     YES
 L0013369         0   0.31220E-02  440007.3 3762449.3   215.0     3.11     5.58
2.89     YES
 L0013370         0   0.31220E-02  440007.2 3762461.3   215.1     3.11     5.58
2.89     YES
 L0013371         0   0.31220E-02  440007.1 3762473.3   215.2     3.11     5.58
2.89     YES
 L0013372         0   0.31220E-02  440007.1 3762485.3   215.3     3.11     5.58
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2.89     YES
 L0013373         0   0.31220E-02  440007.0 3762497.3   215.5     3.11     5.58
2.89     YES
 L0013374         0   0.31220E-02  440002.0 3762499.7   215.5     3.11     5.58
2.89     YES
 L0013375         0   0.31220E-02  439992.1 3762492.9   215.2     3.11     5.58
2.89     YES
 L0013376         0   0.31220E-02  439982.2 3762486.1   215.0     3.11     5.58
2.89     YES
 L0013377         0   0.32136E-02  439917.7 3762405.4   214.1     3.11     5.58
2.89     YES
 L0013378         0   0.32136E-02  439929.7 3762405.6   213.8     3.11     5.58
2.89     YES
 L0013379         0   0.32136E-02  439941.7 3762405.7   213.7     3.11     5.58
2.89     YES
 L0013380         0   0.32136E-02  439953.7 3762405.9   213.5     3.11     5.58
2.89     YES
 L0013381         0   0.32136E-02  439965.7 3762406.1   213.5     3.11     5.58
2.89     YES
 L0013382         0   0.32136E-02  439977.7 3762406.2   213.8     3.11     5.58
2.89     YES
 L0013383         0   0.32136E-02  439989.7 3762406.4   214.2     3.11     5.58
2.89     YES
 L0013384         0   0.32136E-02  440001.7 3762406.6   214.7     3.11     5.58
2.89     YES
 L0013385         0   0.32136E-02  440005.2 3762397.8   214.7     3.11     5.58
2.89     YES
 L0013386         0   0.32136E-02  440005.6 3762385.8   214.6     3.11     5.58
2.89     YES
 L0013387         0   0.32136E-02  440006.0 3762373.8   214.3     3.11     5.58
2.89     YES
 L0013388         0   0.32136E-02  440006.4 3762361.8   214.1     3.11     5.58
2.89     YES
 L0013389         0   0.32136E-02  440006.8 3762349.8   213.9     3.11     5.58
2.89     YES
 L0013390         0   0.32136E-02  440007.2 3762337.8   213.8     3.11     5.58
2.89     YES
 L0013391         0   0.32136E-02  440001.1 3762331.0   213.6     3.11     5.58
2.89     YES
 L0013392         0   0.32136E-02  439989.4 3762328.5   213.5     3.11     5.58
2.89     YES
 L0013393         0   0.32583E-02  439918.6 3762260.0   212.2     3.11     5.58
2.89     YES
 L0013394         0   0.32583E-02  439930.6 3762259.9   212.4     3.11     5.58
2.89     YES
 L0013395         0   0.32583E-02  439942.6 3762259.8   212.4     3.11     5.58
2.89     YES
 L0013396         0   0.32583E-02  439954.6 3762259.7   212.4     3.11     5.58
2.89     YES
 L0013397         0   0.32583E-02  439966.6 3762259.6   212.4     3.11     5.58
2.89     YES
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 L0013398         0   0.32583E-02  439978.6 3762259.5   212.5     3.11     5.58
2.89     YES
 L0013399         0   0.32583E-02  439990.6 3762259.3   212.6     3.11     5.58
2.89     YES
 L0013400         0   0.32583E-02  440002.6 3762259.2   212.7     3.11     5.58
2.89     YES
 L0013401         0   0.32583E-02  440014.6 3762259.1   212.8     3.11     5.58
2.89     YES
 L0013402         0   0.32583E-02  440026.6 3762259.0   212.9     3.11     5.58
2.89     YES
 L0013403         0   0.32583E-02  440038.6 3762258.9   213.0     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       13:58:33

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                  *** VOLUME SOURCE DATA ***

               NUMBER EMISSION RATE                    BASE    RELEASE    INIT.
INIT.   URBAN  EMISSION RATE
   SOURCE       PART.  (GRAMS/SEC)     X        Y      ELEV.   HEIGHT      SY
SZ     SOURCE  SCALAR VARY
     ID         CATS.               (METERS) (METERS) (METERS) (METERS) (METERS)
(METERS)             BY
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 L0013404         0   0.32583E-02  440050.6 3762258.8   213.0     3.11     5.58
2.89     YES
 L0013405         0   0.32583E-02  440062.6 3762258.6   213.1     3.11     5.58
2.89     YES
 L0013406         0   0.32583E-02  440074.6 3762258.5   213.1     3.11     5.58
2.89     YES
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       13:58:33

                                   PAGE  12
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** AREAPOLY SOURCE DATA ***

               NUMBER EMISSION RATE   LOCATION OF AREA  BASE     RELEASE  NUMBER
 INIT.   URBAN  EMISSION RATE
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             L0013156    , L0013157    , L0013158    , L0013159    , L0013160    ,
L0013161    , L0013162    , L0013163    ,

             L0013164    , L0013165    , L0013166    , L0013167    , L0013168    ,
L0013169    , L0013170    , L0013171    ,

             L0013172    , L0013173    , L0013174    , L0013175    , L0013176    ,
L0013177    , L0013178    , L0013179    ,

             L0013180    , L0013181    , L0013182    , L0013183    , L0013184    ,
L0013185    , L0013186    , L0013187    ,

             L0013188    , L0013189    , L0013190    , L0013191    , L0013192    ,
L0013193    , L0013194    , L0013195    ,

             L0013196    , L0013197    , L0013198    , L0013199    , L0013200    ,
L0013201    , L0013202    , L0013203    ,

             L0013204    , L0013205    , L0013206    , L0013207    , L0013208    ,
L0013209    , L0013210    , L0013211    ,

             L0013212    , L0013213    , L0013214    , L0013215    , L0013216    ,
L0013217    , L0013218    , L0013219    ,

             L0013220    , L0013221    , L0013222    , L0013223    , L0013224    ,
L0013225    , L0013226    , L0013227    ,

             L0013228    , L0013229    , L0013230    , L0013231    , L0013232    ,
L0013233    , L0013234    , L0013235    ,

             L0013236    , L0013237    , L0013238    , L0013239    , L0013240    ,
L0013241    , L0013242    , L0013243    ,

             L0013244    , L0013245    , L0013246    , L0013247    , L0013248    ,
L0013249    , L0013250    , L0013251    ,
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        13:58:33

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                                *** SOURCE IDs DEFINING SOURCE GROUPS ***

 SRCGROUP ID                                                    SOURCE IDs
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             L0013252    , L0013253    , L0013254    , L0013255    , L0013256    ,
L0013257    , L0013258    , L0013259    ,

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L0013265    , L0013266    , L0013267    ,

             L0013268    , L0013269    , L0013270    , L0013271    , L0013272    ,
L0013273    , L0013274    , L0013275    ,

             L0013276    , L0013277    , L0013278    , L0013279    , L0013280    ,
L0013281    , L0013282    , L0013283    ,

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L0013289    , L0013290    , L0013291    ,

             L0013292    , L0013293    , L0013294    , L0013295    , L0013296    ,
L0013297    , L0013298    , L0013299    ,

             L0013300    , L0013301    , L0013302    , L0013303    , L0013304    ,
L0013305    , L0013306    , L0013307    ,

             L0013308    , L0013309    , L0013310    , L0013311    , L0013312    ,
L0013313    , L0013314    , L0013315    ,

             L0013316    , L0013317    , L0013318    , L0013319    , L0013320    ,
L0013321    , L0013322    , L0013323    ,

             L0013324    , L0013325    , L0013326    , L0013327    , L0013328    ,
L0013329    , L0013330    , L0013331    ,

             L0013332    , L0013333    , L0013334    , L0013335    , L0013336    ,
L0013337    , L0013338    , L0013339    ,

             L0013340    , L0013341    , L0013342    , L0013343    , L0013344    ,
L0013345    , L0013346    , L0013347    ,

             L0013348    , L0013349    , L0013350    , L0013351    , L0013352    ,
L0013353    , L0013354    , L0013355    ,

             L0013356    , L0013357    , L0013358    , L0013359    , L0013360    ,
L0013361    , L0013362    , L0013363    ,

             L0013364    , L0013365    , L0013366    , L0013367    , L0013368    ,
L0013369    , L0013370    , L0013371    ,

             L0013372    , L0013373    , L0013374    , L0013375    , L0013376    ,
L0013377    , L0013378    , L0013379    ,

             L0013380    , L0013381    , L0013382    , L0013383    , L0013384    ,
L0013385    , L0013386    , L0013387    ,
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
P1ONIDLE	L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 ,
	L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 ,
	L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 ,
	L0013431 , L0013432 , L0013433 , L0013434 , L0013435 , L0013436 , L0013437 , L0013438 ,
	L0013439 , L0013440 , L0013441 , L0013442 , L0013443 , L0013444 , L0013445 , L0013446 ,
	L0013447 , L0013448 , L0013449 , L0013450 , L0013451 , L0013452 , L0013453 , L0013454 ,
P1GEN	PAREA1 , PAREA2 , PAREA3 ,
ALL	L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 ,
	L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 ,
	L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 ,

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L0013436    , L0013437    , L0013438    ,

             L0013439    , L0013440    , L0013441    , L0013442    , L0013443    ,
L0013444    , L0013445    , L0013446    ,

             L0013447    , L0013448    , L0013449    , L0013450    , L0013451    ,
L0013452    , L0013453    , L0013454    ,

             L0013092    , L0013093    , L0013094    , L0013095    , L0013096    ,
L0013097    , L0013098    , L0013099    ,

             L0013100    , L0013101    , L0013102    , L0013103    , L0013104    ,
L0013105    , L0013106    , L0013107    ,

             L0013108    , L0013109    , L0013110    , L0013111    , L0013112    ,
L0013113    , L0013114    , L0013115    ,

             L0013116    , L0013117    , L0013118    , L0013119    , L0013120    ,
L0013121    , L0013122    , L0013123    ,

             L0013124    , L0013125    , L0013126    , L0013127    , L0013128    ,
L0013129    , L0013130    , L0013131    ,

             L0013132    , L0013133    , L0013134    , L0013135    , L0013136    ,
L0013137    , L0013138    , L0013139    ,

             L0013140    , L0013141    , L0013142    , L0013143    , L0013144    ,
L0013145    , L0013146    , L0013147    ,
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*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs

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L0013153    , L0013154    , L0013155    ,

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L0013161    , L0013162    , L0013163    ,

             L0013164    , L0013165    , L0013166    , L0013167    , L0013168    ,
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L0013169 , L0013170 , L0013171 ,

L0013172 , L0013173 , L0013174 , L0013175 , L0013176 ,
L0013177 , L0013178 , L0013179 ,

L0013180 , L0013181 , L0013182 , L0013183 , L0013184 ,
L0013185 , L0013186 , L0013187 ,

L0013188 , L0013189 , L0013190 , L0013191 , L0013192 ,
L0013193 , L0013194 , L0013195 ,

L0013196 , L0013197 , L0013198 , L0013199 , L0013200 ,
L0013201 , L0013202 , L0013203 ,

L0013204 , L0013205 , L0013206 , L0013207 , L0013208 ,
L0013209 , L0013210 , L0013211 ,

L0013212 , L0013213 , L0013214 , L0013215 , L0013216 ,
L0013217 , L0013218 , L0013219 ,

L0013220 , L0013221 , L0013222 , L0013223 , L0013224 ,
L0013225 , L0013226 , L0013227 ,

L0013228 , L0013229 , L0013230 , L0013231 , L0013232 ,
L0013233 , L0013234 , L0013235 ,

L0013236 , L0013237 , L0013238 , L0013239 , L0013240 ,
L0013241 , L0013242 , L0013243 ,

L0013244 , L0013245 , L0013246 , L0013247 , L0013248 ,
L0013249 , L0013250 , L0013251 ,

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L0013257 , L0013258 , L0013259 ,

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L0013273 , L0013274 , L0013275 ,

L0013276 , L0013277 , L0013278 , L0013279 , L0013280 ,
L0013281 , L0013282 , L0013283 ,

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L0013289 , L0013290 , L0013291 ,

L0013292 , L0013293 , L0013294 , L0013295 , L0013296 ,
L0013297 , L0013298 , L0013299 ,

L0013300 , L0013301 , L0013302 , L0013303 , L0013304 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
	L0013308 , L0013309 , L0013310 , L0013311 , L0013312 , L0013313 , L0013314 , L0013315 ,
	L0013316 , L0013317 , L0013318 , L0013319 , L0013320 , L0013321 , L0013322 , L0013323 ,
	L0013324 , L0013325 , L0013326 , L0013327 , L0013328 , L0013329 , L0013330 , L0013331 ,
	L0013332 , L0013333 , L0013334 , L0013335 , L0013336 , L0013337 , L0013338 , L0013339 ,
	L0013340 , L0013341 , L0013342 , L0013343 , L0013344 , L0013345 , L0013346 , L0013347 ,
	L0013348 , L0013349 , L0013350 , L0013351 , L0013352 , L0013353 , L0013354 , L0013355 ,
	L0013356 , L0013357 , L0013358 , L0013359 , L0013360 , L0013361 , L0013362 , L0013363 ,
	L0013364 , L0013365 , L0013366 , L0013367 , L0013368 , L0013369 , L0013370 , L0013371 ,
	L0013372 , L0013373 , L0013374 , L0013375 , L0013376 , L0013377 , L0013378 , L0013379 ,
	L0013380 , L0013381 , L0013382 , L0013383 , L0013384 , L0013385 , L0013386 , L0013387 ,
	L0013388 , L0013389 , L0013390 , L0013391 , L0013392 , L0013393 , L0013394 , L0013395 ,
	L0013396 , L0013397 , L0013398 , L0013399 , L0013400 , L0013401 , L0013402 , L0013403 ,

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs
	2035210.	L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 ,
		L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 ,
		L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 ,
		L0013431 , L0013432 , L0013433 , L0013434 , L0013435 , L0013436 , L0013437 , L0013438 ,
		L0013439 , L0013440 , L0013441 , L0013442 , L0013443 , L0013444 , L0013445 , L0013446 ,
		L0013447 , L0013448 , L0013449 , L0013450 , L0013451 , L0013452 , L0013453 , L0013454 ,
		L0013092 , L0013093 , L0013094 , L0013095 , L0013096 , L0013097 , L0013098 , L0013099 ,
		L0013100 , L0013101 , L0013102 , L0013103 , L0013104 , L0013105 , L0013106 , L0013107 ,
		L0013108 , L0013109 , L0013110 , L0013111 , L0013112 , L0013113 , L0013114 , L0013115 ,
		L0013116 , L0013117 , L0013118 , L0013119 , L0013120 , L0013121 , L0013122 , L0013123 ,
		L0013124 , L0013125 , L0013126 , L0013127 , L0013128 ,

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L0013161 , L0013162 , L0013163 ,

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L0013185 , L0013186 , L0013187 ,

L0013188 , L0013189 , L0013190 , L0013191 , L0013192 ,
L0013193 , L0013194 , L0013195 ,

L0013196 , L0013197 , L0013198 , L0013199 , L0013200 ,
L0013201 , L0013202 , L0013203 ,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** SOURCE IDs DEFINED AS URBAN SOURCES ***

URBAN ID	URBAN POP	SOURCE IDs

L0013204 , L0013205 , L0013206 , L0013207 , L0013208 ,
L0013209 , L0013210 , L0013211 ,

L0013212 , L0013213 , L0013214 , L0013215 , L0013216 ,
L0013217 , L0013218 , L0013219 ,

L0013220 , L0013221 , L0013222 , L0013223 , L0013224 ,

L0013225 , L0013226 , L0013227 ,

L0013228 , L0013229 , L0013230 , L0013231 , L0013232 ,
L0013233 , L0013234 , L0013235 ,

L0013236 , L0013237 , L0013238 , L0013239 , L0013240 ,
L0013241 , L0013242 , L0013243 ,

L0013244 , L0013245 , L0013246 , L0013247 , L0013248 ,
L0013249 , L0013250 , L0013251 ,

L0013252 , L0013253 , L0013254 , L0013255 , L0013256 ,
L0013257 , L0013258 , L0013259 ,

L0013260 , L0013261 , L0013262 , L0013263 , L0013264 ,
L0013265 , L0013266 , L0013267 ,

L0013268 , L0013269 , L0013270 , L0013271 , L0013272 ,
L0013273 , L0013274 , L0013275 ,

L0013276 , L0013277 , L0013278 , L0013279 , L0013280 ,
L0013281 , L0013282 , L0013283 ,

L0013284 , L0013285 , L0013286 , L0013287 , L0013288 ,
L0013289 , L0013290 , L0013291 ,

L0013292 , L0013293 , L0013294 , L0013295 , L0013296 ,
L0013297 , L0013298 , L0013299 ,

L0013300 , L0013301 , L0013302 , L0013303 , L0013304 ,
L0013305 , L0013306 , L0013307 ,

L0013308 , L0013309 , L0013310 , L0013311 , L0013312 ,
L0013313 , L0013314 , L0013315 ,

L0013316 , L0013317 , L0013318 , L0013319 , L0013320 ,
L0013321 , L0013322 , L0013323 ,

L0013324 , L0013325 , L0013326 , L0013327 , L0013328 ,
L0013329 , L0013330 , L0013331 ,

L0013332 , L0013333 , L0013334 , L0013335 , L0013336 ,
L0013337 , L0013338 , L0013339 ,

L0013340 , L0013341 , L0013342 , L0013343 , L0013344 ,
L0013345 , L0013346 , L0013347 ,

L0013348 , L0013349 , L0013350 , L0013351 , L0013352 ,
L0013353 , L0013354 , L0013355 ,

L0013356 , L0013357 , L0013358 , L0013359 , L0013360 ,

L0013361   , L0013362   , L0013363   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP   SOURCE IDs
  --------   ---------   ----------

             L0013364   , L0013365   , L0013366   , L0013367   , L0013368   ,
L0013369   , L0013370   , L0013371   ,

             L0013372   , L0013373   , L0013374   , L0013375   , L0013376   ,
L0013377   , L0013378   , L0013379   ,

             L0013380   , L0013381   , L0013382   , L0013383   , L0013384   ,
L0013385   , L0013386   , L0013387   ,

             L0013388   , L0013389   , L0013390   , L0013391   , L0013392   ,
L0013393   , L0013394   , L0013395   ,

             L0013396   , L0013397   , L0013398   , L0013399   , L0013400   ,
L0013401   , L0013402   , L0013403   ,

             L0013404   , L0013405   , L0013406   , PAREA1   , PAREA2   ,
PAREA3   ,

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                   * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = PAREA1   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = MONDAY

```
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .1000E+01
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = TUESDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = WEDNESDY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = THURSDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00

                                                DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA2 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR

DAY OF WEEK = MONDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.1000E+01	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = TUESDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = WEDNESDY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = THURSDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = FRIDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00

DAY OF WEEK = SATURDAY

1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00

                    * SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF
WEEK (HRDOW7) *

 SOURCE ID = PAREA3   ; SOURCE TYPE = AREAPOLY :
  HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
HOUR   SCALAR   HOUR   SCALAR   HOUR   SCALAR
 -
- -
                                                DAY OF WEEK = MONDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .1000E+01
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = TUESDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = WEDNESDY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00
    9 .0000E+00   10 .0000E+00   11 .0000E+00   12 .0000E+00   13 .0000E+00
14 .0000E+00   15 .0000E+00   16 .0000E+00
   17 .0000E+00   18 .0000E+00   19 .0000E+00   20 .0000E+00   21 .0000E+00
22 .0000E+00   23 .0000E+00   24 .0000E+00
                                                DAY OF WEEK = THURSDAY
    1 .0000E+00   2 .0000E+00   3 .0000E+00   4 .0000E+00   5 .0000E+00
6 .0000E+00   7 .0000E+00   8 .0000E+00

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    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = FRIDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SATURDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
                                              DAY OF WEEK = SUNDAY
    1  .0000E+00    2  .0000E+00    3  .0000E+00    4  .0000E+00    5  .0000E+00
6  .0000E+00    7  .0000E+00    8  .0000E+00
    9  .0000E+00   10  .0000E+00   11  .0000E+00   12  .0000E+00   13  .0000E+00
14  .0000E+00   15  .0000E+00   16  .0000E+00
   17  .0000E+00   18  .0000E+00   19  .0000E+00   20  .0000E+00   21  .0000E+00
22  .0000E+00   23  .0000E+00   24  .0000E+00
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       13:58:33

                                   PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     ( 440407.9, 3761497.8,     205.4,     205.4,       0.0);         ( 439943.4,
3761716.3,     206.8,     206.8,       0.0);
     ( 439170.2, 3763092.5,     220.1,     220.1,       0.0);         ( 439220.2,
3763092.5,     220.7,     220.7,       0.0);
     ( 439270.2, 3763092.5,     220.6,     220.6,       0.0);         ( 439320.2,
3763092.5,     220.9,     220.9,       0.0);
     ( 439370.2, 3763092.5,     221.0,     221.0,       0.0);         ( 439420.2,
3763092.5,     220.7,     220.7,       0.0);
     ( 439470.2, 3763092.5,     220.4,     220.4,       0.0);         ( 439520.2,
3763092.5,     220.4,     220.4,       0.0);
     ( 439570.2, 3763092.5,     220.4,     220.4,       0.0);         ( 439620.2,
3763092.5,     220.9,     220.9,       0.0);
     ( 439670.2, 3763092.5,     221.6,     221.6,       0.0);         ( 439720.2,
3763092.5,     221.9,     221.9,       0.0);
```

```
     ( 439770.2, 3763092.5,     222.1,     222.1,       0.0);         ( 439820.2,
3763092.5,     222.3,     222.3,       0.0);
     ( 439870.2, 3763092.5,     222.6,     222.6,       0.0);         ( 439170.2,
3763142.5,     220.8,     220.8,       0.0);
     ( 439220.2, 3763142.5,     221.2,     221.2,       0.0);         ( 439270.2,
3763142.5,     221.0,     221.0,       0.0);
     ( 439320.2, 3763142.5,     221.3,     221.3,       0.0);         ( 439370.2,
3763142.5,     221.3,     221.3,       0.0);
     ( 439420.2, 3763142.5,     221.0,     221.0,       0.0);         ( 439470.2,
3763142.5,     221.3,     221.3,       0.0);
     ( 439520.2, 3763142.5,     221.5,     221.5,       0.0);         ( 439570.2,
3763142.5,     221.2,     221.2,       0.0);
     ( 439620.2, 3763142.5,     221.3,     221.3,       0.0);         ( 439670.2,
3763142.5,     222.0,     222.0,       0.0);
     ( 439720.2, 3763142.5,     222.3,     222.3,       0.0);         ( 439770.2,
3763142.5,     222.6,     222.6,       0.0);
     ( 439820.2, 3763142.5,     222.9,     222.9,       0.0);         ( 439870.2,
3763142.5,     223.2,     223.2,       0.0);
     ( 439170.2, 3763192.5,     221.4,     221.4,       0.0);         ( 439220.2,
3763192.5,     221.6,     221.6,       0.0);
     ( 439270.2, 3763192.5,     221.3,     221.3,       0.0);         ( 439320.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439370.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439420.2,
3763192.5,     221.3,     221.3,       0.0);
     ( 439470.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439520.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439570.2, 3763192.5,     221.8,     221.8,       0.0);         ( 439620.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439670.2, 3763192.5,     222.5,     222.5,       0.0);         ( 439720.2,
3763192.5,     223.2,     223.2,       0.0);
     ( 439770.2, 3763192.5,     223.5,     223.5,       0.0);         ( 439820.2,
3763192.5,     223.7,     223.7,       0.0);
     ( 439870.2, 3763192.5,     223.9,     223.9,       0.0);         ( 439170.2,
3763242.5,     222.1,     222.1,       0.0);
     ( 439220.2, 3763242.5,     222.1,     222.1,       0.0);         ( 439270.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439320.2, 3763242.5,     222.0,     222.0,       0.0);         ( 439370.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439420.2, 3763242.5,     221.9,     221.9,       0.0);         ( 439470.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439520.2, 3763242.5,     222.3,     222.3,       0.0);         ( 439570.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439620.2, 3763242.5,     222.2,     222.2,       0.0);         ( 439670.2,
3763242.5,     222.8,     222.8,       0.0);
     ( 439720.2, 3763242.5,     223.5,     223.5,       0.0);         ( 439770.2,
3763242.5,     224.0,     224.0,       0.0);
     ( 439820.2, 3763242.5,     224.3,     224.3,       0.0);         ( 439870.2,
3763242.5,     224.5,     224.5,       0.0);
     ( 439170.2, 3763292.5,     222.9,     222.9,       0.0);         ( 439220.2,
3763292.5,     223.4,     223.4,       0.0);
     ( 439270.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439320.2,
```

3763292.5,   223.0,   223.0,   0.0);
     (439370.2, 3763292.5,   222.5,   222.5,   0.0);   (439420.2,
3763292.5,   222.9,   222.9,   0.0);
     (439470.2, 3763292.5,   223.2,   223.2,   0.0);   (439520.2,
3763292.5,   223.5,   223.5,   0.0);
     (439570.2, 3763292.5,   223.0,   223.0,   0.0);   (439620.2,
3763292.5,   223.1,   223.1,   0.0);
     (439670.2, 3763292.5,   223.3,   223.3,   0.0);   (439720.2,
3763292.5,   224.0,   224.0,   0.0);
     (439770.2, 3763292.5,   224.8,   224.8,   0.0);   (439820.2,
3763292.5,   225.1,   225.1,   0.0);
     (439870.2, 3763292.5,   225.1,   225.1,   0.0);   (439170.2,
3763342.5,   223.6,   223.6,   0.0);
     (439220.2, 3763342.5,   224.0,   224.0,   0.0);   (439270.2,
3763342.5,   223.5,   223.5,   0.0);
     (439320.2, 3763342.5,   223.4,   223.4,   0.0);   (439370.2,
3763342.5,   223.0,   223.0,   0.0);
     (439420.2, 3763342.5,   223.3,   223.3,   0.0);   (439470.2,
3763342.5,   223.6,   223.6,   0.0);
     (439520.2, 3763342.5,   223.9,   223.9,   0.0);   (439570.2,
3763342.5,   223.7,   223.7,   0.0);
     (439620.2, 3763342.5,   223.5,   223.5,   0.0);   (439670.2,
3763342.5,   223.9,   223.9,   0.0);
     (439720.2, 3763342.5,   224.4,   224.4,   0.0);   (439770.2,
3763342.5,   225.3,   225.3,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                        (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                  (METERS)

     (439820.2, 3763342.5,   225.6,   225.6,   0.0);   (439870.2,
3763342.5,   225.8,   225.8,   0.0);
     (439170.2, 3763392.5,   224.3,   224.3,   0.0);   (439220.2,
3763392.5,   224.5,   224.5,   0.0);
     (439270.2, 3763392.5,   223.9,   223.9,   0.0);   (439320.2,
3763392.5,   224.3,   224.3,   0.0);
     (439370.2, 3763392.5,   224.0,   224.0,   0.0);   (439420.2,
3763392.5,   224.4,   224.4,   0.0);
     (439470.2, 3763392.5,   224.7,   224.7,   0.0);   (439520.2,
3763392.5,   224.3,   224.3,   0.0);
     (439570.2, 3763392.5,   224.2,   224.2,   0.0);   (439620.2,
3763392.5,   224.0,   224.0,   0.0);
     (439670.2, 3763392.5,   224.5,   224.5,   0.0);   (439720.2,
3763392.5,   224.8,   224.8,   0.0);

```
     ( 439770.2, 3763392.5,     225.6,     225.6,       0.0);         ( 439820.2,
3763392.5,     226.0,     226.0,       0.0);
     ( 439870.2, 3763392.5,     226.3,     226.3,       0.0);         ( 439170.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439220.2, 3763442.5,     225.1,     225.1,       0.0);         ( 439270.2,
3763442.5,     224.5,     224.5,       0.0);
     ( 439320.2, 3763442.5,     224.5,     224.5,       0.0);         ( 439370.2,
3763442.5,     224.6,     224.6,       0.0);
     ( 439420.2, 3763442.5,     224.7,     224.7,       0.0);         ( 439470.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439520.2, 3763442.5,     224.7,     224.7,       0.0);         ( 439570.2,
3763442.5,     224.7,     224.7,       0.0);
     ( 439620.2, 3763442.5,     224.6,     224.6,       0.0);         ( 439670.2,
3763442.5,     225.0,     225.0,       0.0);
     ( 439720.2, 3763442.5,     225.4,     225.4,       0.0);         ( 439770.2,
3763442.5,     226.1,     226.1,       0.0);
     ( 439820.2, 3763442.5,     226.5,     226.5,       0.0);         ( 439870.2,
3763442.5,     226.7,     226.7,       0.0);
     ( 439203.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439253.2,
3762911.2,     218.6,     218.6,       0.0);
     ( 439303.2, 3762911.2,     218.7,     218.7,       0.0);         ( 439353.2,
3762911.2,     217.9,     217.9,       0.0);
     ( 439403.2, 3762911.2,     218.0,     218.0,       0.0);         ( 439453.2,
3762911.2,     218.3,     218.3,       0.0);
     ( 439503.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439553.2,
3762911.2,     218.5,     218.5,       0.0);
     ( 439203.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439253.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439303.2, 3762961.2,     219.2,     219.2,       0.0);         ( 439353.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439403.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439453.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439503.2, 3762961.2,     218.7,     218.7,       0.0);         ( 439553.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439203.2, 3763011.2,     219.6,     219.6,       0.0);         ( 439253.2,
3763011.2,     219.7,     219.7,       0.0);
     ( 439303.2, 3763011.2,     219.9,     219.9,       0.0);         ( 439353.2,
3763011.2,     220.0,     220.0,       0.0);
     ( 439403.2, 3763011.2,     219.2,     219.2,       0.0);         ( 439453.2,
3763011.2,     219.4,     219.4,       0.0);
     ( 439503.2, 3763011.2,     219.1,     219.1,       0.0);         ( 439553.2,
3763011.2,     219.5,     219.5,       0.0);
     ( 439203.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439253.2,
3763061.2,     220.5,     220.5,       0.0);
     ( 439303.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439353.2,
3763061.2,     220.8,     220.8,       0.0);
     ( 439403.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439453.2,
3763061.2,     220.4,     220.4,       0.0);
     ( 439503.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439553.2,
3763061.2,     220.3,     220.3,       0.0);
     ( 439196.0, 3762392.5,     212.6,     212.6,       0.0);         ( 439246.0,
```

3762392.5,   212.7,   212.7,   0.0);
     (439296.0, 3762392.5,   212.7,   212.7,   0.0);   (439346.0,
3762392.5,   212.6,   212.6,   0.0);
     (439396.0, 3762392.5,   212.5,   212.5,   0.0);   (439446.0,
3762392.5,   212.2,   212.2,   0.0);
     (439496.0, 3762392.5,   212.2,   212.2,   0.0);   (439546.0,
3762392.5,   212.5,   212.5,   0.0);
     (439196.0, 3762442.5,   213.1,   213.1,   0.0);   (439246.0,
3762442.5,   213.1,   213.1,   0.0);
     (439296.0, 3762442.5,   213.5,   213.5,   0.0);   (439346.0,
3762442.5,   213.5,   213.5,   0.0);
     (439396.0, 3762442.5,   213.5,   213.5,   0.0);   (439446.0,
3762442.5,   213.5,   213.5,   0.0);
     (439496.0, 3762442.5,   213.5,   213.5,   0.0);   (439546.0,
3762442.5,   213.4,   213.4,   0.0);
     (439196.0, 3762492.5,   213.6,   213.6,   0.0);   (439246.0,
3762492.5,   213.5,   213.5,   0.0);
     (439296.0, 3762492.5,   213.7,   213.7,   0.0);   (439346.0,
3762492.5,   214.0,   214.0,   0.0);
     (439396.0, 3762492.5,   213.9,   213.9,   0.0);   (439446.0,
3762492.5,   213.9,   213.9,   0.0);
     (439496.0, 3762492.5,   214.2,   214.2,   0.0);   (439546.0,
3762492.5,   214.4,   214.4,   0.0);
     (439196.0, 3762542.5,   214.1,   214.1,   0.0);   (439246.0,
3762542.5,   213.8,   213.8,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439296.0, 3762542.5,   214.0,   214.0,   0.0);   (439346.0,
3762542.5,   214.0,   214.0,   0.0);
     (439396.0, 3762542.5,   214.2,   214.2,   0.0);   (439446.0,
3762542.5,   214.2,   214.2,   0.0);
     (439496.0, 3762542.5,   214.7,   214.7,   0.0);   (439546.0,
3762542.5,   214.7,   214.7,   0.0);
     (439196.0, 3762592.5,   214.6,   214.6,   0.0);   (439246.0,
3762592.5,   214.8,   214.8,   0.0);
     (439296.0, 3762592.5,   214.7,   214.7,   0.0);   (439346.0,
3762592.5,   214.4,   214.4,   0.0);
     (439396.0, 3762592.5,   214.4,   214.4,   0.0);   (439446.0,
3762592.5,   214.5,   214.5,   0.0);
     (439496.0, 3762592.5,   215.1,   215.1,   0.0);   (439546.0,
3762592.5,   215.2,   215.2,   0.0);

```
     ( 439196.0, 3762642.5,     215.1,     215.1,       0.0);         ( 439246.0,
3762642.5,     215.4,     215.4,       0.0);
     ( 439296.0, 3762642.5,     214.9,     214.9,       0.0);         ( 439346.0,
3762642.5,     214.4,     214.4,       0.0);
     ( 439396.0, 3762642.5,     214.6,     214.6,       0.0);         ( 439446.0,
3762642.5,     214.8,     214.8,       0.0);
     ( 439496.0, 3762642.5,     215.5,     215.5,       0.0);         ( 439546.0,
3762642.5,     215.6,     215.6,       0.0);
     ( 439196.0, 3762692.5,     215.8,     215.8,       0.0);         ( 439246.0,
3762692.5,     215.8,     215.8,       0.0);
     ( 439296.0, 3762692.5,     215.9,     215.9,       0.0);         ( 439346.0,
3762692.5,     215.7,     215.7,       0.0);
     ( 439396.0, 3762692.5,     215.1,     215.1,       0.0);         ( 439446.0,
3762692.5,     215.3,     215.3,       0.0);
     ( 439496.0, 3762692.5,     215.9,     215.9,       0.0);         ( 439546.0,
3762692.5,     216.1,     216.1,       0.0);
     ( 439196.0, 3762742.5,     216.5,     216.5,       0.0);         ( 439246.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439296.0, 3762742.5,     216.3,     216.3,       0.0);         ( 439346.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439396.0, 3762742.5,     216.0,     216.0,       0.0);         ( 439446.0,
3762742.5,     216.0,     216.0,       0.0);
     ( 439496.0, 3762742.5,     216.7,     216.7,       0.0);         ( 439546.0,
3762742.5,     216.8,     216.8,       0.0);
     ( 439196.0, 3762792.5,     217.1,     217.1,       0.0);         ( 439246.0,
3762792.5,     216.4,     216.4,       0.0);
     ( 439296.0, 3762792.5,     216.8,     216.8,       0.0);         ( 439346.0,
3762792.5,     216.8,     216.8,       0.0);
     ( 439396.0, 3762792.5,     216.9,     216.9,       0.0);         ( 439446.0,
3762792.5,     216.7,     216.7,       0.0);
     ( 439496.0, 3762792.5,     217.3,     217.3,       0.0);         ( 439546.0,
3762792.5,     217.4,     217.4,       0.0);
     ( 439196.0, 3762842.5,     217.7,     217.7,       0.0);         ( 439246.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439296.0, 3762842.5,     217.0,     217.0,       0.0);         ( 439346.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439396.0, 3762842.5,     217.2,     217.2,       0.0);         ( 439446.0,
3762842.5,     217.3,     217.3,       0.0);
     ( 439496.0, 3762842.5,     217.9,     217.9,       0.0);         ( 439546.0,
3762842.5,     218.0,     218.0,       0.0);
     ( 439573.3, 3762470.5,     213.7,     213.7,       0.0);         ( 439623.3,
3762470.5,     214.1,     214.1,       0.0);
     ( 439673.3, 3762470.5,     214.2,     214.2,       0.0);         ( 439723.3,
3762470.5,     214.3,     214.3,       0.0);
     ( 439773.3, 3762470.5,     214.4,     214.4,       0.0);         ( 439823.3,
3762470.5,     214.4,     214.4,       0.0);
     ( 439873.3, 3762470.5,     214.7,     214.7,       0.0);         ( 439573.3,
3762520.5,     214.3,     214.3,       0.0);
     ( 439623.3, 3762520.5,     214.5,     214.5,       0.0);         ( 439673.3,
3762520.5,     214.8,     214.8,       0.0);
     ( 439723.3, 3762520.5,     215.1,     215.1,       0.0);         ( 439773.3,
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3762520.5,   215.1,   215.1,   0.0);
     (439823.3, 3762520.5,   214.8,   214.8,   0.0);   (439873.3,
3762520.5,   215.2,   215.2,   0.0);
     (439573.3, 3762570.5,   214.8,   214.8,   0.0);   (439623.3,
3762570.5,   215.0,   215.0,   0.0);
     (439673.3, 3762570.5,   215.4,   215.4,   0.0);   (439723.3,
3762570.5,   215.5,   215.5,   0.0);
     (439773.3, 3762570.5,   215.5,   215.5,   0.0);   (439823.3,
3762570.5,   215.3,   215.3,   0.0);
     (439873.3, 3762570.5,   215.9,   215.9,   0.0);   (439573.3,
3762620.5,   215.3,   215.3,   0.0);
     (439623.3, 3762620.5,   215.6,   215.6,   0.0);   (439673.3,
3762620.5,   215.7,   215.7,   0.0);
     (439723.3, 3762620.5,   215.9,   215.9,   0.0);   (439773.3,
3762620.5,   215.8,   215.8,   0.0);
     (439823.3, 3762620.5,   215.9,   215.9,   0.0);   (439873.3,
3762620.5,   216.5,   216.5,   0.0);
     (439573.3, 3762670.5,   215.8,   215.8,   0.0);   (439623.3,
3762670.5,   216.5,   216.5,   0.0);
     (439673.3, 3762670.5,   216.5,   216.5,   0.0);   (439723.3,
3762670.5,   216.6,   216.6,   0.0);
     (439773.3, 3762670.5,   216.8,   216.8,   0.0);   (439823.3,
3762670.5,   216.9,   216.9,   0.0);
     (439873.3, 3762670.5,   217.1,   217.1,   0.0);   (439152.3,
3761448.9,   203.3,   203.3,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439202.3, 3761448.9,   202.5,   202.5,   0.0);   (439252.3,
3761448.9,   202.5,   202.5,   0.0);
     (439302.3, 3761448.9,   202.4,   202.4,   0.0);   (439352.3,
3761448.9,   202.5,   202.5,   0.0);
     (439402.3, 3761448.9,   202.6,   202.6,   0.0);   (439452.3,
3761448.9,   202.6,   202.6,   0.0);
     (439502.3, 3761448.9,   203.1,   203.1,   0.0);   (439552.3,
3761448.9,   203.1,   203.1,   0.0);
     (439152.3, 3761498.9,   204.0,   204.0,   0.0);   (439202.3,
3761498.9,   203.9,   203.9,   0.0);
     (439252.3, 3761498.9,   204.3,   204.3,   0.0);   (439302.3,
3761498.9,   203.6,   203.6,   0.0);
     (439352.3, 3761498.9,   203.2,   203.2,   0.0);   (439402.3,
3761498.9,   202.9,   202.9,   0.0);

```
     ( 439452.3, 3761498.9,     202.7,     202.7,       0.0);         ( 439502.3,
3761498.9,     203.3,     203.3,       0.0);
     ( 439552.3, 3761498.9,     203.5,     203.5,       0.0);         ( 439152.3,
3761548.9,     204.7,     204.7,       0.0);
     ( 439202.3, 3761548.9,     204.3,     204.3,       0.0);         ( 439252.3,
3761548.9,     204.4,     204.4,       0.0);
     ( 439302.3, 3761548.9,     203.7,     203.7,       0.0);         ( 439352.3,
3761548.9,     203.0,     203.0,       0.0);
     ( 439402.3, 3761548.9,     203.1,     203.1,       0.0);         ( 439452.3,
3761548.9,     203.0,     203.0,       0.0);
     ( 439502.3, 3761548.9,     203.2,     203.2,       0.0);         ( 439552.3,
3761548.9,     203.6,     203.6,       0.0);
     ( 439152.3, 3761598.9,     205.2,     205.2,       0.0);         ( 439202.3,
3761598.9,     204.5,     204.5,       0.0);
     ( 439252.3, 3761598.9,     204.5,     204.5,       0.0);         ( 439302.3,
3761598.9,     204.2,     204.2,       0.0);
     ( 439352.3, 3761598.9,     203.5,     203.5,       0.0);         ( 439402.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439452.3, 3761598.9,     203.8,     203.8,       0.0);         ( 439502.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439552.3, 3761598.9,     204.0,     204.0,       0.0);         ( 439152.3,
3761648.9,     205.5,     205.5,       0.0);
     ( 439202.3, 3761648.9,     205.1,     205.1,       0.0);         ( 439252.3,
3761648.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761648.9,     204.9,     204.9,       0.0);         ( 439352.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439402.3, 3761648.9,     204.5,     204.5,       0.0);         ( 439452.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439502.3, 3761648.9,     204.7,     204.7,       0.0);         ( 439552.3,
3761648.9,     204.9,     204.9,       0.0);
     ( 439152.3, 3761698.9,     206.0,     206.0,       0.0);         ( 439202.3,
3761698.9,     205.4,     205.4,       0.0);
     ( 439252.3, 3761698.9,     204.9,     204.9,       0.0);         ( 439302.3,
3761698.9,     205.0,     205.0,       0.0);
     ( 439352.3, 3761698.9,     205.2,     205.2,       0.0);         ( 439402.3,
3761698.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761698.9,     204.8,     204.8,       0.0);         ( 439502.3,
3761698.9,     205.3,     205.3,       0.0);
     ( 439552.3, 3761698.9,     205.7,     205.7,       0.0);         ( 439152.3,
3761748.9,     206.1,     206.1,       0.0);
     ( 439202.3, 3761748.9,     205.8,     205.8,       0.0);         ( 439252.3,
3761748.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761748.9,     205.2,     205.2,       0.0);         ( 439352.3,
3761748.9,     205.2,     205.2,       0.0);
     ( 439402.3, 3761748.9,     205.4,     205.4,       0.0);         ( 439452.3,
3761748.9,     205.1,     205.1,       0.0);
     ( 439502.3, 3761748.9,     204.8,     204.8,       0.0);         ( 439552.3,
3761748.9,     205.5,     205.5,       0.0);
     ( 439152.3, 3761798.9,     206.4,     206.4,       0.0);         ( 439202.3,
3761798.9,     206.4,     206.4,       0.0);
     ( 439252.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439302.3,
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3761798.9,   206.2,   206.2,   0.0);
     (439352.3, 3761798.9,   205.6,   205.6,   0.0);   (439402.3,
3761798.9,   205.5,   205.5,   0.0);
     (439452.3, 3761798.9,   205.9,   205.9,   0.0);   (439502.3,
3761798.9,   205.2,   205.2,   0.0);
     (439552.3, 3761798.9,   205.9,   205.9,   0.0);   (439152.3,
3761848.9,   206.9,   206.9,   0.0);
     (439202.3, 3761848.9,   206.7,   206.7,   0.0);   (439252.3,
3761848.9,   206.1,   206.1,   0.0);
     (439302.3, 3761848.9,   206.2,   206.2,   0.0);   (439352.3,
3761848.9,   205.6,   205.6,   0.0);
     (439402.3, 3761848.9,   206.3,   206.3,   0.0);   (439452.3,
3761848.9,   206.3,   206.3,   0.0);
     (439502.3, 3761848.9,   205.5,   205.5,   0.0);   (439552.3,
3761848.9,   206.3,   206.3,   0.0);
     (439152.3, 3761898.9,   207.6,   207.6,   0.0);   (439202.3,
3761898.9,   207.2,   207.2,   0.0);
     (439252.3, 3761898.9,   206.5,   206.5,   0.0);   (439302.3,
3761898.9,   207.1,   207.1,   0.0);
     (439352.3, 3761898.9,   206.9,   206.9,   0.0);   (439402.3,
3761898.9,   206.7,   206.7,   0.0);
     (439452.3, 3761898.9,   207.4,   207.4,   0.0);   (439502.3,
3761898.9,   207.4,   207.4,   0.0);
     (439552.3, 3761898.9,   207.6,   207.6,   0.0);   (439152.3,
3761948.9,   208.1,   208.1,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439202.3, 3761948.9,   207.6,   207.6,   0.0);   (439252.3,
3761948.9,   206.9,   206.9,   0.0);
     (439302.3, 3761948.9,   207.6,   207.6,   0.0);   (439352.3,
3761948.9,   207.7,   207.7,   0.0);
     (439402.3, 3761948.9,   207.3,   207.3,   0.0);   (439452.3,
3761948.9,   208.1,   208.1,   0.0);
     (439502.3, 3761948.9,   208.5,   208.5,   0.0);   (439552.3,
3761948.9,   208.8,   208.8,   0.0);
     (439152.3, 3761998.9,   208.6,   208.6,   0.0);   (439202.3,
3761998.9,   207.9,   207.9,   0.0);
     (439252.3, 3761998.9,   207.2,   207.2,   0.0);   (439302.3,
3761998.9,   208.0,   208.0,   0.0);
     (439352.3, 3761998.9,   208.5,   208.5,   0.0);   (439402.3,
3761998.9,   208.0,   208.0,   0.0);

```
     ( 439452.3, 3761998.9,     208.2,     208.2,       0.0);         ( 439502.3,
3761998.9,     208.5,     208.5,       0.0);
     ( 439552.3, 3761998.9,     208.9,     208.9,       0.0);         ( 439152.3,
3762048.9,     209.2,     209.2,       0.0);
     ( 439202.3, 3762048.9,     209.1,     209.1,       0.0);         ( 439252.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439302.3, 3762048.9,     209.0,     209.0,       0.0);         ( 439352.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439402.3, 3762048.9,     208.7,     208.7,       0.0);         ( 439452.3,
3762048.9,     209.0,     209.0,       0.0);
     ( 439502.3, 3762048.9,     209.2,     209.2,       0.0);         ( 439552.3,
3762048.9,     209.4,     209.4,       0.0);
     ( 439616.6, 3761420.6,     202.8,     202.8,       0.0);         ( 439666.6,
3761420.6,     203.2,     203.2,       0.0);
     ( 439716.6, 3761420.6,     203.4,     203.4,       0.0);         ( 439766.6,
3761420.6,     203.6,     203.6,       0.0);
     ( 439816.6, 3761420.6,     203.5,     203.5,       0.0);         ( 439866.6,
3761420.6,     203.8,     203.8,       0.0);
     ( 439616.6, 3761470.6,     203.2,     203.2,       0.0);         ( 439666.6,
3761470.6,     203.4,     203.4,       0.0);
     ( 439716.6, 3761470.6,     203.6,     203.6,       0.0);         ( 439766.6,
3761470.6,     203.8,     203.8,       0.0);
     ( 439816.6, 3761470.6,     203.7,     203.7,       0.0);         ( 439866.6,
3761470.6,     204.3,     204.3,       0.0);
     ( 439616.6, 3761520.6,     203.5,     203.5,       0.0);         ( 439666.6,
3761520.6,     203.7,     203.7,       0.0);
     ( 439716.6, 3761520.6,     204.0,     204.0,       0.0);         ( 439766.6,
3761520.6,     204.4,     204.4,       0.0);
     ( 439816.6, 3761520.6,     204.5,     204.5,       0.0);         ( 439866.6,
3761520.6,     204.9,     204.9,       0.0);
     ( 439616.6, 3761570.6,     204.1,     204.1,       0.0);         ( 439666.6,
3761570.6,     204.4,     204.4,       0.0);
     ( 439716.6, 3761570.6,     204.7,     204.7,       0.0);         ( 439766.6,
3761570.6,     205.2,     205.2,       0.0);
     ( 439816.6, 3761570.6,     205.4,     205.4,       0.0);         ( 439866.6,
3761570.6,     205.5,     205.5,       0.0);
     ( 440451.1, 3762893.8,     220.7,     220.7,       0.0);         ( 440501.1,
3762893.8,     220.6,     220.6,       0.0);
     ( 440551.1, 3762893.8,     220.3,     220.3,       0.0);         ( 440601.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440651.1, 3762893.8,     220.5,     220.5,       0.0);         ( 440701.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440751.1, 3762893.8,     220.2,     220.2,       0.0);         ( 440801.1,
3762893.8,     220.2,     220.2,       0.0);
     ( 440851.1, 3762893.8,     219.8,     219.8,       0.0);         ( 440451.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 440501.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440551.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440601.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440651.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440701.1, 3762943.8,     221.0,     221.0,       0.0);         ( 440751.1,
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3762943.8,   220.5,   220.5,   0.0);
     (440801.1, 3762943.8,   220.8,   220.8,   0.0);   (440851.1,
3762943.8,   221.2,   221.2,   0.0);
     (441116.7, 3763135.3,   223.3,   223.3,   0.0);   (441166.7,
3763135.3,   222.9,   222.9,   0.0);
     (441116.7, 3763185.3,   223.9,   223.9,   0.0);   (441166.7,
3763185.3,   223.5,   223.5,   0.0);
     (441116.7, 3763235.3,   224.2,   224.2,   0.0);   (441166.7,
3763235.3,   223.9,   223.9,   0.0);
     (441116.7, 3763285.3,   225.2,   225.2,   0.0);   (441166.7,
3763285.3,   224.6,   224.6,   0.0);
     (441116.7, 3763335.3,   225.8,   225.8,   0.0);   (441166.7,
3763335.3,   225.4,   225.4,   0.0);
     (441116.7, 3763385.3,   226.3,   226.3,   0.0);   (441166.7,
3763385.3,   226.3,   226.3,   0.0);
     (441116.7, 3763435.3,   227.0,   227.0,   0.0);   (441166.7,
3763435.3,   226.8,   226.8,   0.0);
     (440433.4, 3762815.1,   219.6,   219.6,   0.0);   (440483.4,
3762815.1,   219.4,   219.4,   0.0);
     (440533.4, 3762815.1,   219.2,   219.2,   0.0);   (440583.4,
3762815.1,   219.4,   219.4,   0.0);
     (440633.4, 3762815.1,   219.3,   219.3,   0.0);   (440683.4,
3762815.1,   219.2,   219.2,   0.0);
     (440733.4, 3762815.1,   219.4,   219.4,   0.0);   (440783.4,
3762815.1,   219.2,   219.2,   0.0);

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                              (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                           (METERS)

     (440833.4, 3762815.1,   219.4,   219.4,   0.0);   (440883.4,
3762815.1,   219.5,   219.5,   0.0);
     (440933.4, 3762815.1,   219.0,   219.0,   0.0);   (440983.4,
3762815.1,   218.8,   218.8,   0.0);
     (440433.4, 3762865.1,   220.3,   220.3,   0.0);   (440483.4,
3762865.1,   220.1,   220.1,   0.0);
     (440533.4, 3762865.1,   219.9,   219.9,   0.0);   (440583.4,
3762865.1,   219.9,   219.9,   0.0);
     (440633.4, 3762865.1,   220.0,   220.0,   0.0);   (440683.4,
3762865.1,   219.9,   219.9,   0.0);
     (440733.4, 3762865.1,   220.0,   220.0,   0.0);   (440783.4,
3762865.1,   219.9,   219.9,   0.0);
     (440833.4, 3762865.1,   219.6,   219.6,   0.0);   (440883.4,
3762865.1,   219.3,   219.3,   0.0);

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     ( 440933.4, 3762865.1,     219.0,     219.0,       0.0);         ( 440983.4,
3762865.1,     218.9,     218.9,       0.0);
     ( 441118.3, 3762686.0,     217.2,     217.2,       0.0);         ( 441168.3,
3762686.0,     217.0,     217.0,       0.0);
     ( 441118.3, 3762736.0,     218.2,     218.2,       0.0);         ( 441168.3,
3762736.0,     217.5,     217.5,       0.0);
     ( 441118.3, 3762786.0,     218.3,     218.3,       0.0);         ( 441168.3,
3762786.0,     218.0,     218.0,       0.0);
     ( 441118.3, 3762836.0,     218.4,     218.4,       0.0);         ( 441168.3,
3762836.0,     218.3,     218.3,       0.0);
     ( 440411.7, 3762093.4,     211.8,     211.8,       0.0);         ( 440461.7,
3762093.4,     211.7,     211.7,       0.0);
     ( 440511.7, 3762093.4,     211.8,     211.8,       0.0);         ( 440561.7,
3762093.4,     211.8,     211.8,       0.0);
     ( 440611.7, 3762093.4,     211.6,     211.6,       0.0);         ( 440411.7,
3762143.4,     212.7,     212.7,       0.0);
     ( 440461.7, 3762143.4,     212.3,     212.3,       0.0);         ( 440511.7,
3762143.4,     212.5,     212.5,       0.0);
     ( 440561.7, 3762143.4,     212.2,     212.2,       0.0);         ( 440611.7,
3762143.4,     212.4,     212.4,       0.0);
     ( 440406.6, 3762008.9,     210.5,     210.5,       0.0);         ( 440456.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440506.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440556.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440606.6, 3762008.9,     210.7,     210.7,       0.0);         ( 440656.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440706.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440756.6,
3762008.9,     211.0,     211.0,       0.0);
     ( 440806.6, 3762008.9,     210.4,     210.4,       0.0);         ( 440856.6,
3762008.9,     210.6,     210.6,       0.0);
     ( 440906.6, 3762008.9,     211.3,     211.3,       0.0);         ( 440956.6,
3762008.9,     211.2,     211.2,       0.0);
     ( 441006.6, 3762008.9,     211.1,     211.1,       0.0);         ( 441056.6,
3762008.9,     210.5,     210.5,       0.0);
     ( 441106.6, 3762008.9,     210.4,     210.4,       0.0);         ( 441156.6,
3762008.9,     210.4,     210.4,       0.0);
     ( 440406.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440456.6,
3762058.9,     211.2,     211.2,       0.0);
     ( 440506.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440556.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 440606.6, 3762058.9,     211.2,     211.2,       0.0);         ( 440656.6,
3762058.9,     211.4,     211.4,       0.0);
     ( 440706.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440756.6,
3762058.9,     212.0,     212.0,       0.0);
     ( 440806.6, 3762058.9,     211.4,     211.4,       0.0);         ( 440856.6,
3762058.9,     211.5,     211.5,       0.0);
     ( 440906.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440956.6,
3762058.9,     211.7,     211.7,       0.0);
     ( 441006.6, 3762058.9,     211.5,     211.5,       0.0);         ( 441056.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 441106.6, 3762058.9,     211.1,     211.1,       0.0);         ( 441156.6,
```

*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
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1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54,   3.09,   5.14,   8.23,

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74						

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0.21    1.23   91.    7.9  296.4    2.0
 12 01 01   1 12  110.8  0.197  1.018  0.005  338.  209.     -6.1  0.09   0.74
0.20    1.60   90.    7.9  299.9    2.0
 12 01 01   1 13  110.5  0.229  1.184  0.005  534.  262.     -9.6  0.09   0.74
0.20    1.98   92.    7.9  302.0    2.0
 12 01 01   1 14   94.6  0.185  1.215  0.005  674.  191.     -5.9  0.09   0.74
0.21    1.50   73.    7.9  303.1    2.0
 12 01 01   1 15   68.6  0.187  1.184  0.005  858.  194.     -8.4  0.09   0.74
0.25    1.59   64.    7.9  303.1    2.0
 12 01 01   1 16   24.9  0.255  0.862  0.005  911.  308.    -58.8  0.09   0.74
0.34    2.61   92.    7.9  300.4    2.0
 12 01 01   1 17  -13.7  0.168 -9.000 -9.000 -999.  168.     31.1  0.09   0.74
0.62    1.98  107.    7.9  295.4    2.0
 12 01 01   1 18  -26.7  0.279 -9.000 -9.000 -999.  354.     85.6  0.09   0.74
1.00    3.22  134.    7.9  291.4    2.0
 12 01 01   1 19   -8.0  0.118 -9.000 -9.000 -999.  120.     18.2  0.09   0.74
1.00    1.43   37.    7.9  290.4    2.0
 12 01 01   1 20   -7.7  0.115 -9.000 -9.000 -999.   94.     17.6  0.09   0.74
1.00    1.40   49.    7.9  287.0    2.0
 12 01 01   1 21   -9.7  0.130 -9.000 -9.000 -999.  113.     20.2  0.09   0.74
1.00    1.57   26.    7.9  288.8    2.0
 12 01 01   1 22   -4.8  0.090 -9.000 -9.000 -999.   65.     13.6  0.09   0.74
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        13:58:33

                                   PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
                                   INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
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, L0013118   , L0013119   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.96271	439943.36	3761716.33	1.53963
439170.17	3763092.51	0.96577	439220.17	3763092.51	1.02499
439270.17	3763092.51	1.10241	439320.17	3763092.51	1.18295
439370.17	3763092.51	1.27606	439420.17	3763092.51	1.38452
439470.17	3763092.51	1.51432	439520.17	3763092.51	1.64838
439570.17	3763092.51	1.79826	439620.17	3763092.51	1.94965
439670.17	3763092.51	2.12235	439720.17	3763092.51	2.32408
439770.17	3763092.51	2.55362	439820.17	3763092.51	2.79414
439870.17	3763092.51	3.04907	439170.17	3763142.51	0.91874
439220.17	3763142.51	0.97779	439270.17	3763142.51	1.04875
439320.17	3763142.51	1.12106	439370.17	3763142.51	1.20511
439420.17	3763142.51	1.30238	439470.17	3763142.51	1.40160
439520.17	3763142.51	1.51209	439570.17	3763142.51	1.64442
439620.17	3763142.51	1.78303	439670.17	3763142.51	1.92010
439720.17	3763142.51	2.06946	439770.17	3763142.51	2.23205
439820.17	3763142.51	2.40252	439870.17	3763142.51	2.58374
439170.17	3763192.51	0.87694	439220.17	3763192.51	0.93151
439270.17	3763192.51	0.99718	439320.17	3763192.51	1.05797
439370.17	3763192.51	1.13421	439420.17	3763192.51	1.22252
439470.17	3763192.51	1.30525	439520.17		

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3763192.51        1.40168
         439570.17    3763192.51        1.50877                          439620.17
3763192.51        1.62622
         439670.17    3763192.51        1.71996                          439720.17
3763192.51        1.81680
         439770.17    3763192.51        1.93512                          439820.17
3763192.51        2.06706
         439870.17    3763192.51        2.19918                          439170.17
3763242.51        0.83283
         439220.17    3763242.51        0.88376                          439270.17
3763242.51        0.94279
         439320.17    3763242.51        1.00198                          439370.17
3763242.51        1.06858
         439420.17    3763242.51        1.14072                          439470.17
3763242.51        1.20775
         439520.17    3763242.51        1.28888                          439570.17
3763242.51        1.38000
         439620.17    3763242.51        1.47833                          439670.17
3763242.51        1.55250
         439720.17    3763242.51        1.62733                          439770.17
3763242.51        1.70816
         439820.17    3763242.51        1.73383                          439870.17
3763242.51        1.80003
         439170.17    3763292.51        0.77994                          439220.17
3763292.51        0.81455
         439270.17    3763292.51        0.86356                          439320.17
3763292.51        0.92183
         439370.17    3763292.51        0.99187                          439420.17
3763292.51        1.04024
         439470.17    3763292.51        1.09789                          439520.17
3763292.51        1.16000
         439570.17    3763292.51        1.24806                          439620.17
3763292.51        1.32059
         439670.17    3763292.51        1.39469                          439720.17
3763292.51        1.44888
         439770.17    3763292.51        1.42272                          439820.17
3763292.51        1.47666
         439870.17    3763292.51        1.54169                          439170.17
3763342.51        0.73317
         439220.17    3763342.51        0.76330                          439270.17
3763342.51        0.81837
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       13:58:33

                                  PAGE  33
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
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INCLUDING SOURCE(S): L0013092 , L0013093
, L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101
, L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109
, L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117
, L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.86610	439370.17	3763342.51	0.92413
439420.17	3763342.51	0.96982	439470.17	3763342.51	1.01629
439520.17	3763342.51	1.06552	439570.17	3763342.51	1.13338
439620.17	3763342.51	1.20412	439670.17	3763342.51	1.25559
439720.17	3763342.51	1.25491	439770.17	3763342.51	1.25268
439820.17	3763342.51	1.28842	439870.17	3763342.51	1.33178
439170.17	3763392.51	0.67485	439220.17	3763392.51	0.70009
439270.17	3763392.51	0.76734	439320.17	3763392.51	0.78668
439370.17	3763392.51	0.84627	439420.17	3763392.51	0.85700
439470.17	3763392.51	0.88937	439520.17	3763392.51	0.95389
439570.17	3763392.51	1.01902	439620.17	3763392.51	1.08934
439670.17	3763392.51	1.08440	439720.17	3763392.51	1.11697
439770.17	3763392.51	1.12122	439820.17	3763392.51	1.14619
439870.17	3763392.51	1.17430	439170.17	3763442.51	0.62462
439220.17	3763442.51	0.65198	439270.17	3763442.51	0.69810
439320.17	3763442.51	0.73039	439370.17	3763442.51	0.76015

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         439420.17    3763442.51        0.79454                    439470.17
3763442.51        0.82061
         439520.17    3763442.51        0.87018                    439570.17
3763442.51        0.90751
         439620.17    3763442.51        0.94967                    439670.17
3763442.51        0.97173
         439720.17    3763442.51        0.99289                    439770.17
3763442.51        1.00396
         439820.17    3763442.51        1.02306                    439870.17
3763442.51        1.04651
         439203.20    3762911.16        1.18411                    439253.20
3762911.16        1.28145
         439303.20    3762911.16        1.39582                    439353.20
3762911.16        1.53696
         439403.20    3762911.16        1.68929                    439453.20
3762911.16        1.86581
         439503.20    3762911.16        2.07392                    439553.20
3762911.16        2.31346
         439203.20    3762961.16        1.13854                    439253.20
3762961.16        1.22896
         439303.20    3762961.16        1.33095                    439353.20
3762961.16        1.45529
         439403.20    3762961.16        1.59967                    439453.20
3762961.16        1.75242
         439503.20    3762961.16        1.94476                    439553.20
3762961.16        2.15173
         439203.20    3763011.16        1.08858                    439253.20
3763011.16        1.17164
         439303.20    3763011.16        1.26577                    439353.20
3763011.16        1.37082
         439403.20    3763011.16        1.51102                    439453.20
3763011.16        1.64892
         439503.20    3763011.16        1.81737                    439553.20
3763011.16        1.99659
         439203.20    3763061.16        1.03752                    439253.20
3763061.16        1.10978
         439303.20    3763061.16        1.19067                    439353.20
3763061.16        1.28546
         439403.20    3763061.16        1.39693                    439453.20
3763061.16        1.52921
         439503.20    3763061.16        1.67823                    439553.20
3763061.16        1.83149
         439196.01    3762392.48        1.32824                    439246.01
3762392.48        1.45736
         439296.01    3762392.48        1.60756                    439346.01
3762392.48        1.78439
         439396.01    3762392.48        1.99469                    439446.01
3762392.48        2.24717
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***

INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 , L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 , L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 , L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	2.55929	439546.01	3762392.48	2.95141
439196.01	3762442.48	1.33994	439246.01	3762442.48	1.47134
439296.01	3762442.48	1.62606	439346.01	3762442.48	1.80746
439396.01	3762442.48	2.02414	439446.01	3762442.48	2.28665
439496.01	3762442.48	2.60867	439546.01	3762442.48	3.01187
439196.01	3762492.48	1.34559	439246.01	3762492.48	1.47792
439296.01	3762492.48	1.63383	439346.01	3762492.48	1.81796
439396.01	3762492.48	2.03684	439446.01	3762492.48	2.30160
439496.01	3762492.48	2.62927	439546.01	3762492.48	3.03793
439196.01	3762542.48	1.34539	439246.01	3762542.48	1.47739
439296.01	3762542.48	1.63281	439346.01	3762542.48	1.81571
439396.01	3762542.48	2.03481	439446.01	3762542.48	2.29896
439496.01	3762542.48	2.62506	439546.01		

```
3762542.48        3.02870
         439196.01    3762592.48        1.33911                    439246.01
3762592.48        1.47099
         439296.01    3762592.48        1.62429                    439346.01
3762592.48        1.80442
         439396.01    3762592.48        2.01931                    439446.01
3762592.48        2.27916
         439496.01    3762592.48        2.59868                    439546.01
3762592.48        2.99165
         439196.01    3762642.48        1.32692                    439246.01
3762642.48        1.45644
         439296.01    3762642.48        1.60580                    439346.01
3762642.48        1.78111
         439396.01    3762642.48        1.99106                    439446.01
3762642.48        2.24331
         439496.01    3762642.48        2.55164                    439546.01
3762642.48        2.92905
         439196.01    3762692.48        1.30894                    439246.01
3762692.48        1.43452
         439296.01    3762692.48        1.58059                    439346.01
3762692.48        1.75110
         439396.01    3762692.48        1.95146                    439446.01
3762692.48        2.19291
         439496.01    3762692.48        2.48654                    439546.01
3762692.48        2.84401
         439196.01    3762742.48        1.28560                    439246.01
3762742.48        1.40622
         439296.01    3762742.48        1.54647                    439346.01
3762742.48        1.70953
         439396.01    3762742.48        1.90147                    439446.01
3762742.48        2.12978
         439496.01    3762742.48        2.40565                    439546.01
3762742.48        2.73940
         439196.01    3762792.48        1.25743                    439246.01
3762792.48        1.37242
         439296.01    3762792.48        1.50592                    439346.01
3762792.48        1.66061
         439396.01    3762792.48        1.84153                    439446.01
3762792.48        2.05484
         439496.01    3762792.48        2.30977                    439546.01
3762792.48        2.61380
         439196.01    3762842.48        1.22223                    439246.01
3762842.48        1.33444
         439296.01    3762842.48        1.45995                    439346.01
3762842.48        1.60487
         439396.01    3762842.48        1.77293                    439446.01
3762842.48        1.97043
         439496.01    3762842.48        2.19867                    439546.01
3762842.48        2.47598
         439573.31    3762470.54        3.29602                    439623.31
3762470.54        3.90251
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***

INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 , L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 , L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 , L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	15.50182	439573.31	3762520.54	3.30072
439623.31	3762520.54	3.89831	439673.31	3762520.54	4.69260
439723.31	3762520.54	5.78314	439773.31	3762520.54	7.34859
439823.31	3762520.54	9.75147	439873.31	3762520.54	14.24491
439573.31	3762570.54	3.26976	439623.31	3762570.54	3.84908
439673.31	3762570.54	4.60793	439723.31	3762570.54	5.62564
439773.31	3762570.54	7.03667	439823.31	3762570.54	9.08797
439873.31	3762570.54	12.40760	439573.31	3762620.54	3.20828
439623.31	3762620.54	3.76079	439673.31	3762620.54	4.47402

```
         439723.31    3762620.54        5.41764                    439773.31
3762620.54        6.69295
         439823.31    3762620.54        8.47621                    439873.31
3762620.54       11.06304
         439573.31    3762670.54        3.11987                    439623.31
3762670.54        3.64225
         439673.31    3762670.54        4.30721                    439723.31
3762670.54        5.17851
         439773.31    3762670.54        6.35350                    439823.31
3762670.54        7.98706
         439873.31    3762670.54       10.36994                    439152.35
3761448.92        0.63999
         439202.35    3761448.92        0.66072                    439252.35
3761448.92        0.68329
         439302.35    3761448.92        0.70617                    439352.35
3761448.92        0.72953
         439402.35    3761448.92        0.75320                    439452.35
3761448.92        0.77689
         439502.35    3761448.92        0.80175                    439552.35
3761448.92        0.82524
         439152.35    3761498.92        0.67015                    439202.35
3761498.92        0.69491
         439252.35    3761498.92        0.72147                    439302.35
3761498.92        0.74576
         439352.35    3761498.92        0.77104                    439402.35
3761498.92        0.79696
         439452.35    3761498.92        0.82319                    439502.35
3761498.92        0.85163
         439552.35    3761498.92        0.87894                    439152.35
3761548.92        0.70160
         439202.35    3761548.92        0.72908                    439252.35
3761548.92        0.75811
         439302.35    3761548.92        0.78569                    439352.35
3761548.92        0.81355
         439402.35    3761548.92        0.84379                    439452.35
3761548.92        0.87423
         439502.35    3761548.92        0.90533                    439552.35
3761548.92        0.93733
         439152.35    3761598.92        0.73421                    439202.35
3761598.92        0.76430
         439252.35    3761598.92        0.79663                    439302.35
3761598.92        0.82923
         439352.35    3761598.92        0.86092                    439402.35
3761598.92        0.89579
         439452.35    3761598.92        0.93143                    439502.35
3761598.92        0.96609
         439552.35    3761598.92        1.00330                    439152.35
3761648.92        0.76747
         439202.35    3761648.92        0.80186                    439252.35
3761648.92        0.83848
         439302.35    3761648.92        0.87602                    439352.35
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3761648.92 0.91349
  439402.35 3761648.92 0.95335 439452.35
3761648.92 0.99365
  439502.35 3761648.92 1.03566 439552.35
3761648.92 1.07808
  439152.35 3761698.92 0.80194 439202.35
3761698.92 0.84023
  439252.35 3761698.92 0.88022 439302.35
3761698.92 0.92348
  439352.35 3761698.92 0.96865 439402.35
3761698.92 1.01586

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.06016	439502.35	3761698.92	1.11030
439552.35	3761698.92	1.16082	439152.35	3761748.92	0.83661
439202.35	3761748.92	0.88025	439252.35	3761748.92	0.92441
439302.35	3761748.92	0.97393	439352.35	3761748.92	1.02498
439402.35	3761748.92	1.07855	439452.35	3761748.92	1.13236
439502.35	3761748.92	1.18721	439552.35		

```
3761748.92        1.24809
         439152.35    3761798.92        0.87219                   439202.35
3761798.92        0.92160
         439252.35    3761798.92        0.97264                   439302.35
3761798.92        1.02922
         439352.35    3761798.92        1.08543                   439402.35
3761798.92        1.14643
         439452.35    3761798.92        1.21260                   439502.35
3761798.92        1.27553
         439552.35    3761798.92        1.34815                   439152.35
3761848.92        0.90855
         439202.35    3761848.92        0.96308                   439252.35
3761848.92        1.01983
         439302.35    3761848.92        1.08280                   439352.35
3761848.92        1.14737
         439402.35    3761848.92        1.22152                   439452.35
3761848.92        1.29685
         439502.35    3761848.92        1.37152                   439552.35
3761848.92        1.45857
         439152.35    3761898.92        0.94578                   439202.35
3761898.92        1.00536
         439252.35    3761898.92        1.06861                   439302.35
3761898.92        1.14166
         439352.35    3761898.92        1.21720                   439402.35
3761898.92        1.29888
         439452.35    3761898.92        1.39085                   439502.35
3761898.92        1.48538
         439552.35    3761898.92        1.58618                   439152.35
3761948.92        0.98234
         439202.35    3761948.92        1.04748                   439252.35
3761948.92        1.11746
         439302.35    3761948.92        1.19991                   439352.35
3761948.92        1.28731
         439402.35    3761948.92        1.38038                   439452.35
3761948.92        1.48796
         439502.35    3761948.92        1.60263                   439552.35
3761948.92        1.72572
         439152.35    3761998.92        1.01842                   439202.35
3761998.92        1.08893
         439252.35    3761998.92        1.16611                   439302.35
3761998.92        1.25810
         439352.35    3761998.92        1.35844                   439402.35
3761998.92        1.46419
         439452.35    3761998.92        1.58567                   439502.35
3761998.92        1.71986
         439552.35    3761998.92        1.86923                   439152.35
3762048.92        1.05367
         439202.35    3762048.92        1.13261                   439252.35
3762048.92        1.22024
         439302.35    3762048.92        1.31852                   439352.35
3762048.92        1.42841
```

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         439402.35    3762048.92        1.55033                      439452.35
3762048.92        1.69035
         439502.35    3762048.92        1.84771                      439552.35
3762048.92        2.02478
         439616.61    3761420.65        0.82412                      439666.61
3761420.65        0.84546
         439716.61    3761420.65        0.86524                      439766.61
3761420.65        0.88332
         439816.61    3761420.65        0.89841                      439866.61
3761420.65        0.91268
         439616.61    3761470.65        0.87895                      439666.61
3761470.65        0.90290
         439716.61    3761470.65        0.92577                      439766.61
3761470.65        0.94680
         439816.61    3761470.65        0.96459                      439866.61
3761470.65        0.98183
         439616.61    3761520.65        0.93960                      439666.61
3761520.65        0.96752
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        13:58:33

                                  PAGE  37
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN  ***
                                  INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         439716.61    3761520.65        0.99418                      439766.61
3761520.65        1.01973
         439816.61    3761520.65        1.04113                      439866.61
3761520.65        1.06086
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         439616.61    3761570.65        1.00816                    439666.61
3761570.65        1.04068
         439716.61    3761570.65        1.07217                    439766.61
3761570.65        1.10239
         439816.61    3761570.65        1.12877                    439866.61
3761570.65        1.15083
         440451.14    3762893.83        9.44883                    440501.14
3762893.83        8.25137
         440551.14    3762893.83        7.27709                    440601.14
3762893.83        6.46176
         440651.14    3762893.83        5.77184                    440701.14
3762893.83        5.17842
         440751.14    3762893.83        4.66456                    440801.14
3762893.83        4.21609
         440851.14    3762893.83        3.82333                    440451.14
3762943.83        7.55488
         440501.14    3762943.83        6.77929                    440551.14
3762943.83        6.12454
         440601.14    3762943.83        5.55093                    440651.14
3762943.83        5.05532
         440701.14    3762943.83        4.61621                    440751.14
3762943.83        4.22491
         440801.14    3762943.83        3.87102                    440851.14
3762943.83        3.55329
         441116.67    3763135.31        1.88214                    441166.67
3763135.31        1.79192
         441116.67    3763185.31        1.74261                    441166.67
3763185.31        1.66953
         441116.67    3763235.31        1.61143                    441166.67
3763235.31        1.54658
         441116.67    3763285.31        1.48476                    441166.67
3763285.31        1.43960
         441116.67    3763335.31        1.35002                    441166.67
3763335.31        1.32196
         441116.67    3763385.31        1.22277                    441166.67
3763385.31        1.20447
         441116.67    3763435.31        1.10507                    441166.67
3763435.31        1.09457
         440433.43    3762815.13       13.99045                    440483.43
3762815.13       11.56541
         440533.43    3762815.13        9.74823                    440583.43
3762815.13        8.31357
         440633.43    3762815.13        7.16191                    440683.43
3762815.13        6.22973
         440733.43    3762815.13        5.46918                    440783.43
3762815.13        4.84226
         440833.43    3762815.13        4.32117                    440883.43
3762815.13        3.88272
         440933.43    3762815.13        3.50722                    440983.43
3762815.13        3.18532
         440433.43    3762865.13       11.33296                    440483.43
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)

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Y-COORD (M)        CONC
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	1.04666	439943.36	3761716.33	1.71335
439170.17	3763092.51	0.91556	439220.17	3763092.51	0.96856
439270.17	3763092.51	1.03972	439320.17	3763092.51	1.11506
439370.17	3763092.51	1.20129	439420.17	3763092.51	1.30157
439470.17	3763092.51	1.41981	439520.17	3763092.51	1.54343
439570.17	3763092.51	1.67664	439620.17	3763092.51	1.82263
439670.17	3763092.51	1.98270	439720.17	3763092.51	2.16233
439770.17	3763092.51	2.36355	439820.17	3763092.51	2.57863
439870.17	3763092.51	2.81055	439170.17	3763142.51	0.86923
439220.17	3763142.51	0.92391	439270.17	3763142.51	0.98971
439320.17	3763142.51	1.05650	439370.17	3763142.51	1.13419

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         439420.17    3763142.51        1.22394                    439470.17
3763142.51        1.31554
         439520.17    3763142.51        1.41775                    439570.17
3763142.51        1.53794
         439620.17    3763142.51        1.66432                    439670.17
3763142.51        1.78507
         439720.17    3763142.51        1.92436                    439770.17
3763142.51        2.07993
         439820.17    3763142.51        2.24178                    439870.17
3763142.51        2.39721
         439170.17    3763192.51        0.82969                    439220.17
3763192.51        0.88102
         439270.17    3763192.51        0.94090                    439320.17
3763192.51        0.99739
         439370.17    3763192.51        1.06898                    439420.17
3763192.51        1.14868
         439470.17    3763192.51        1.22658                    439520.17
3763192.51        1.31251
         439570.17    3763192.51        1.40998                    439620.17
3763192.51        1.51623
         439670.17    3763192.51        1.60994                    439720.17
3763192.51        1.70948
         439770.17    3763192.51        1.80890                    439820.17
3763192.51        1.92089
         439870.17    3763192.51        2.01724                    439170.17
3763242.51        0.78791
         439220.17    3763242.51        0.83492                    439270.17
3763242.51        0.88984
         439320.17    3763242.51        0.94320                    439370.17
3763242.51        1.00604
         439420.17    3763242.51        1.07196                    439470.17
3763242.51        1.13406
         439520.17    3763242.51        1.20934                    439570.17
3763242.51        1.29112
         439620.17    3763242.51        1.37839                    439670.17
3763242.51        1.46190
         439720.17    3763242.51        1.52512                    439770.17
3763242.51        1.57322
         439820.17    3763242.51        1.64626                    439870.17
3763242.51        1.66220
         439170.17    3763292.51        0.74715                    439220.17
3763292.51        0.77770
         439270.17    3763292.51        0.82568                    439320.17
3763292.51        0.87983
         439370.17    3763292.51        0.94042                    439420.17
3763292.51        0.99258
         439470.17    3763292.51        1.04222                    439520.17
3763292.51        1.09839
         439570.17    3763292.51        1.18519                    439620.17
3763292.51        1.24983
         439670.17    3763292.51        1.31563                    439720.17
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.82755	439370.17	3763342.51	0.88332
439420.17	3763342.51	0.92302	439470.17	3763342.51	0.96293
439520.17	3763342.51	1.00307	439570.17	3763342.51	1.07108
439620.17	3763342.51	1.13639	439670.17	3763342.51	1.17306
439720.17	3763342.51	1.20225	439770.17	3763342.51	1.16182
439820.17	3763342.51	1.19823	439870.17	3763342.51	1.23732
439170.17	3763392.51	0.65212	439220.17	3763392.51	0.66922
439270.17	3763392.51	0.72740	439320.17		

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3763392.51        0.75806
         439370.17    3763392.51        0.79972                    439420.17
3763392.51        0.82871
         439470.17    3763392.51        0.84012                    439520.17
3763392.51        0.91751
         439570.17    3763392.51        0.96899                    439620.17
3763392.51        1.01891
         439670.17    3763392.51        1.01748                    439720.17
3763392.51        1.04823
         439770.17    3763392.51        1.04654                    439820.17
3763392.51        1.06953
         439870.17    3763392.51        1.09515                    439170.17
3763442.51        0.59229
         439220.17    3763442.51        0.61735                    439270.17
3763442.51        0.67195
         439320.17    3763442.51        0.69889                    439370.17
3763442.51        0.72083
         439420.17    3763442.51        0.75221                    439470.17
3763442.51        0.77011
         439520.17    3763442.51        0.82080                    439570.17
3763442.51        0.85482
         439620.17    3763442.51        0.89247                    439670.17
3763442.51        0.90445
         439720.17    3763442.51        0.92608                    439770.17
3763442.51        0.93992
         439820.17    3763442.51        0.95771                    439870.17
3763442.51        0.97914
         439203.20    3762911.16        1.12512                    439253.20
3762911.16        1.21539
         439303.20    3762911.16        1.32238                    439353.20
3762911.16        1.45504
         439403.20    3762911.16        1.59417                    439453.20
3762911.16        1.75902
         439503.20    3762911.16        1.95426                    439553.20
3762911.16        2.18057
         439203.20    3762961.16        1.08391                    439253.20
3762961.16        1.17143
         439303.20    3762961.16        1.26955                    439353.20
3762961.16        1.38348
         439403.20    3762961.16        1.51386                    439453.20
3762961.16        1.66216
         439503.20    3762961.16        1.83663                    439553.20
3762961.16        2.03798
         439203.20    3763011.16        1.02966                    439253.20
3763011.16        1.10668
         439303.20    3763011.16        1.19489                    439353.20
3763011.16        1.29475
         439403.20    3763011.16        1.43806                    439453.20
3763011.16        1.56042
         439503.20    3763011.16        1.72481                    439553.20
3763011.16        1.87304
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         439203.20    3763061.16        0.98607                      439253.20
3763061.16        1.04413
         439303.20    3763061.16        1.12253                      439353.20
3763061.16        1.21061
         439403.20    3763061.16        1.31362                      439453.20
3763061.16        1.43486
         439503.20    3763061.16        1.58268                      439553.20
3763061.16        1.71709
         439196.01    3762392.48        1.27922                      439246.01
3762392.48        1.39937
         439296.01    3762392.48        1.53813                      439346.01
3762392.48        1.70007
         439396.01    3762392.48        1.89056                      439446.01
3762392.48        2.11614
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        13:58:33

                                  PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                  INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439496.01    3762392.48        2.38998                      439546.01
3762392.48        2.72593
         439196.01    3762442.48        1.28755                      439246.01
3762442.48        1.40944
         439296.01    3762442.48        1.55185                      439346.01
3762442.48        1.71743
         439396.01    3762442.48        1.91308                      439446.01
3762442.48        2.14692
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         439496.01    3762442.48        2.42888                    439546.01
3762442.48        2.77402
         439196.01    3762492.48        1.29052                    439246.01
3762492.48        1.41306
         439296.01    3762492.48        1.55635                    439346.01
3762492.48        1.72423
         439396.01    3762492.48        1.92189                    439446.01
3762492.48        2.15811
         439496.01    3762492.48        2.44605                    439546.01
3762492.48        2.79835
         439196.01    3762542.48        1.28838                    439246.01
3762542.48        1.41052
         439296.01    3762542.48        1.55341                    439346.01
3762542.48        1.72037
         439396.01    3762542.48        1.91872                    439446.01
3762542.48        2.15551
         439496.01    3762542.48        2.44441                    439546.01
3762542.48        2.79692
         439196.01    3762592.48        1.28106                    439246.01
3762592.48        1.40309
         439296.01    3762592.48        1.54425                    439346.01
3762592.48        1.70919
         439396.01    3762592.48        1.90467                    439446.01
3762592.48        2.13936
         439496.01    3762592.48        2.42570                    439546.01
3762592.48        2.77491
         439196.01    3762642.48        1.26871                    439246.01
3762642.48        1.38873
         439296.01    3762642.48        1.52670                    439346.01
3762642.48        1.68792
         439396.01    3762642.48        1.88007                    439446.01
3762642.48        2.10996
         439496.01    3762642.48        2.38982                    439546.01
3762642.48        2.73138
         439196.01    3762692.48        1.25138                    439246.01
3762692.48        1.36804
         439296.01    3762692.48        1.50333                    439346.01
3762692.48        1.66082
         439396.01    3762692.48        1.84546                    439446.01
3762692.48        2.06742
         439496.01    3762692.48        2.33710                    439546.01
3762692.48        2.66587
         439196.01    3762742.48        1.22928                    439246.01
3762742.48        1.34163
         439296.01    3762742.48        1.47192                    439346.01
3762742.48        1.62314
         439396.01    3762742.48        1.80093                    439446.01
3762742.48        2.01235
         439496.01    3762742.48        2.26823                    439546.01
3762742.48        2.57912
         439196.01    3762792.48        1.20272                    439246.01
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3762792.48   1.31003
         439296.01   3762792.48   1.43436   439346.01
3762792.48   1.57827
         439396.01   3762792.48   1.74656   439446.01
3762792.48   1.94518
         439496.01   3762792.48   2.18413   439546.01
3762792.48   2.47329
         439196.01   3762842.48   1.17232   439246.01
3762842.48   1.27434
         439296.01   3762842.48   1.39144   439346.01
3762842.48   1.52659
         439396.01   3762842.48   1.68398   439446.01
3762842.48   1.86866
         439496.01   3762842.48   2.08400   439546.01
3762842.48   2.32822
         439573.31   3762470.54   3.01387   439623.31
3762470.54   3.51074
         439673.31   3762470.54   4.14705   439723.31
3762470.54   4.98288
         439773.31   3762470.54   6.12415   439823.31
3762470.54   7.76552

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                   INCLUDING SOURCE(S):   L0013407   , L0013408
, L0013409   , L0013410   , L0013411   ,
                  L0013412   , L0013413   , L0013414   , L0013415   , L0013416
, L0013417   , L0013418   , L0013419   ,
                  L0013420   , L0013421   , L0013422   , L0013423   , L0013424
, L0013425   , L0013426   , L0013427   ,
                  L0013428   , L0013429   , L0013430   , L0013431   , L0013432
, L0013433   , L0013434   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439873.31   3762470.54   10.42350   439573.31

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3762520.54        3.02598
         439623.31    3762520.54        3.52664                    439673.31
3762520.54        4.17140
         439723.31    3762520.54        5.01996                    439773.31
3762520.54        6.16948
         439823.31    3762520.54        7.79284                    439873.31
3762520.54       10.32639
         439573.31    3762570.54        3.01287                    439623.31
3762570.54        3.51320
         439673.31    3762570.54        4.15846                    439723.31
3762570.54        5.00829
         439773.31    3762570.54        6.16269                    439823.31
3762570.54        7.79543
         439873.31    3762570.54       10.29570                    439573.31
3762620.54        2.97577
         439623.31    3762620.54        3.46871                    439673.31
3762620.54        4.10436
         439723.31    3762620.54        4.94887                    439773.31
3762620.54        6.10438
         439823.31    3762620.54        7.76959                    439873.31
3762620.54       10.38143
         439573.31    3762670.54        2.91311                    439623.31
3762670.54        3.39310
         439673.31    3762670.54        4.01008                    439723.31
3762670.54        4.83482
         439773.31    3762670.54        5.98708                    439823.31
3762670.54        7.68303
         439873.31    3762670.54       10.40293                    439152.35
3761448.92        0.65282
         439202.35    3761448.92        0.67586                    439252.35
3761448.92        0.70098
         439302.35    3761448.92        0.72662                    439352.35
3761448.92        0.75295
         439402.35    3761448.92        0.77977                    439452.35
3761448.92        0.80680
         439502.35    3761448.92        0.83526                    439552.35
3761448.92        0.86253
         439152.35    3761498.92        0.68238                    439202.35
3761498.92        0.70964
         439252.35    3761498.92        0.73903                    439302.35
3761498.92        0.76644
         439352.35    3761498.92        0.79511                    439402.35
3761498.92        0.82469
         439452.35    3761498.92        0.85482                    439502.35
3761498.92        0.88752
         439552.35    3761498.92        0.91935                    439152.35
3761548.92        0.71296
         439202.35    3761548.92        0.74306                    439252.35
3761548.92        0.77515
         439302.35    3761548.92        0.80617                    439352.35
3761548.92        0.83787
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         439402.35    3761548.92        0.87237                      439452.35
3761548.92        0.90742
         439502.35    3761548.92        0.94351                      439552.35
3761548.92        0.98095
         439152.35    3761598.92        0.74440                      439202.35
3761598.92        0.77720
         439252.35    3761598.92        0.81273                      439302.35
3761598.92        0.84908
         439352.35    3761598.92        0.88505                      439402.35
3761598.92        0.92480
         439452.35    3761598.92        0.96587                      439502.35
3761598.92        1.00643
         439552.35    3761598.92        1.05018                      439152.35
3761648.92        0.77621
         439202.35    3761648.92        0.81329                      439252.35
3761648.92        0.85318
         439302.35    3761648.92        0.89469                      439352.35
3761648.92        0.93685
         439402.35    3761648.92        0.98220                      439452.35
3761648.92        1.02875
         439502.35    3761648.92        1.07782                      439552.35
3761648.92        1.12809
         439152.35    3761698.92        0.80890                      439202.35
3761698.92        0.84979
         439252.35    3761698.92        0.89304                      439302.35
3761698.92        0.94034
         439352.35    3761698.92        0.99047                      439402.35
3761698.92        1.04369
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       13:58:33

                                    PAGE  43
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                    INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.09503	439502.35	3761698.92	1.15343
439552.35	3761698.92	1.21338	439152.35	3761748.92	0.84148
439202.35	3761748.92	0.88753	439252.35	3761748.92	0.93483
439302.35	3761748.92	0.98831	439352.35	3761748.92	1.04440
439402.35	3761748.92	1.10429	439452.35	3761748.92	1.16585
439502.35	3761748.92	1.23000	439552.35	3761748.92	1.30198
439152.35	3761798.92	0.87466	439202.35	3761798.92	0.92616
439252.35	3761798.92	0.98004	439302.35	3761798.92	1.04033
439352.35	3761798.92	1.10149	439402.35	3761798.92	1.16888
439452.35	3761798.92	1.24325	439502.35	3761798.92	1.31643
439552.35	3761798.92	1.40180	439152.35	3761848.92	0.90831
439202.35	3761848.92	0.96451	439252.35	3761848.92	1.02369
439302.35	3761848.92	1.08994	439352.35	3761848.92	1.15907
439402.35	3761848.92	1.23930	439452.35	3761848.92	1.32286
439502.35	3761848.92	1.40836	439552.35	3761848.92	1.50948
439152.35	3761898.92	0.94252	439202.35	3761898.92	1.00327
439252.35	3761898.92	1.06836	439302.35	3761898.92	1.14393
439352.35	3761898.92	1.22331	439402.35	3761898.92	1.31047
439452.35	3761898.92	1.41008	439502.35	3761898.92	1.51538
439552.35	3761898.92	1.63097	439152.35	3761948.92	0.97583
439202.35	3761948.92	1.04152	439252.35	3761948.92	1.11260
439302.35	3761948.92	1.19659	439352.35	3761948.92	1.28672
439402.35	3761948.92	1.38415	439452.35		

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3761948.92        1.49811
         439502.35    3761948.92        1.62247                          439552.35
3761948.92        1.75987
         439152.35    3761998.92        1.00841                          439202.35
3761998.92        1.07880
         439252.35    3761998.92        1.15618                          439302.35
3761998.92        1.24851
         439352.35    3761998.92        1.35004                          439402.35
3761998.92        1.45854
         439452.35    3761998.92        1.58451                          439502.35
3761998.92        1.72622
         439552.35    3761998.92        1.88769                          439152.35
3762048.92        1.03989
         439202.35    3762048.92        1.11779                          439252.35
3762048.92        1.20443
         439302.35    3762048.92        1.30186                          439352.35
3762048.92        1.41129
         439402.35    3762048.92        1.53363                          439452.35
3762048.92        1.67527
         439502.35    3762048.92        1.83664                          439552.35
3762048.92        2.02173
         439616.61    3761420.65        0.86442                          439666.61
3761420.65        0.88972
         439716.61    3761420.65        0.91364                          439766.61
3761420.65        0.93603
         439816.61    3761420.65        0.95548                          439866.61
3761420.65        0.97426
         439616.61    3761470.65        0.92316                          439666.61
3761470.65        0.95182
         439716.61    3761470.65        0.97966                          439766.61
3761470.65        1.00590
         439816.61    3761470.65        1.02900                          439866.61
3761470.65        1.05182
         439616.61    3761520.65        0.98811                          439666.61
3761520.65        1.02172
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       13:58:33

                                  PAGE  44
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONIDLE ***
                                  INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
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L0013428 , L0013429 , L0013430 , L0013431 , L0013432
, L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	1.05442	439766.61	3761520.65	1.08642
439816.61	3761520.65	1.11441	439866.61	3761520.65	1.14100
439616.61	3761570.65	1.06141	439666.61	3761570.65	1.10087
439716.61	3761570.65	1.13979	439766.61	3761570.65	1.17799
439816.61	3761570.65	1.21269	439866.61	3761570.65	1.24324
440451.14	3762893.83	9.96138	440501.14	3762893.83	8.64025
440551.14	3762893.83	7.47923	440601.14	3762893.83	6.50665
440651.14	3762893.83	5.72000	440701.14	3762893.83	5.07974
440751.14	3762893.83	4.55285	440801.14	3762893.83	4.10786
440851.14	3762893.83	3.72839	440451.14	3762943.83	7.28931
440501.14	3762943.83	6.68933	440551.14	3762943.83	6.08949
440601.14	3762943.83	5.50212	440651.14	3762943.83	4.97808
440701.14	3762943.83	4.51540	440751.14	3762943.83	4.11557
440801.14	3762943.83	3.75827	440851.14	3762943.83	3.44666
441116.67	3763135.31	1.80455	441166.67	3763135.31	1.72068
441116.67	3763185.31	1.67317	441166.67	3763185.31	1.60118
441116.67	3763235.31	1.53596	441166.67	3763235.31	1.48489
441116.67	3763285.31	1.42114	441166.67	3763285.31	1.37838
441116.67	3763335.31	1.28794	441166.67	3763335.31	1.26531

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         441116.67    3763385.31        1.16432                        441166.67
3763385.31        1.14931
         441116.67    3763435.31        1.05049                        441166.67
3763435.31        1.04284
         440433.43    3762815.13       17.34975                        440483.43
3762815.13       12.88361
         440533.43    3762815.13       10.18671                        440583.43
3762815.13        8.34810
         440633.43    3762815.13        7.05220                        440683.43
3762815.13        6.07861
         440733.43    3762815.13        5.32460                        440783.43
3762815.13        4.70959
         440833.43    3762815.13        4.22950                        440883.43
3762815.13        3.81225
         440933.43    3762815.13        3.43559                        440983.43
3762815.13        3.13139
         440433.43    3762865.13       12.79993                        440483.43
3762865.13       10.57708
         440533.43    3762865.13        8.80490                        440583.43
3762865.13        7.45486
         440633.43    3762865.13        6.42255                        440683.43
3762865.13        5.61971
         440733.43    3762865.13        4.97582                        440783.43
3762865.13        4.44993
         440833.43    3762865.13        4.00759                        440883.43
3762865.13        3.61944
         440933.43    3762865.13        3.29631                        440983.43
3762865.13        3.01753
         441118.27    3762686.02        2.54238                        441168.27
3762686.02        2.34689
         441118.27    3762736.02        2.55156                        441168.27
3762736.02        2.34595
         441118.27    3762786.02        2.52187                        441168.27
3762786.02        2.33179
         441118.27    3762836.02        2.46808                        441168.27
3762836.02        2.28614
         440411.67    3762093.41        3.94675                        440461.67
3762093.41        3.60029
         440511.67    3762093.41        3.30053                        440561.67
3762093.41        3.03520
         440611.67    3762093.41        2.79987                        440411.67
3762143.41        4.69076
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       13:58:33

                                  PAGE  45
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
```

VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408
, L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416
, L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424
, L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432
, L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	4.20623	440511.67	3762143.41	3.80400
440561.67	3762143.41	3.45619	440611.67	3762143.41	3.16091
440406.61	3762008.86	3.02736	440456.61	3762008.86	2.82502
440506.61	3762008.86	2.63742	440556.61	3762008.86	2.46370
440606.61	3762008.86	2.30578	440656.61	3762008.86	2.16202
440706.61	3762008.86	2.03165	440756.61	3762008.86	1.91300
440806.61	3762008.86	1.80007	440856.61	3762008.86	1.70165
440906.61	3762008.86	1.61356	440956.61	3762008.86	1.52921
441006.61	3762008.86	1.45195	441056.61	3762008.86	1.37918
441106.61	3762008.86	1.31355	441156.61	3762008.86	1.25314
440406.61	3762058.86	3.54661	440456.61	3762058.86	3.26788
440506.61	3762058.86	3.01962	440556.61	3762058.86	2.79660
440606.61	3762058.86	2.59582	440656.61	3762058.86	2.41757
440706.61	3762058.86	2.25910	440756.61	3762058.86	2.11476
440806.61	3762058.86	1.98062	440856.61	3762058.86	1.86297
440906.61	3762058.86	1.75717	440956.61		

3762058.86 1.65913
  441006.61 3762058.86 1.56936 441056.61
3762058.86 1.48742
  441106.61 3762058.86 1.41228 441156.61
3762058.86 1.34335
  440191.38 3762138.44 8.19657 440241.38
3762138.44 7.04676
  440291.38 3762138.44 6.14224 440341.38
3762138.44 5.39472
  440191.38 3762188.44 12.19469 440241.38
3762188.44 9.44414
  440291.38 3762188.44 7.82445 440341.38
3762188.44 6.64510
  440191.38 3762238.44 17.21180 440241.38
3762238.44 12.18977
  440291.38 3762238.44 9.66767 440341.38
3762238.44 8.00589

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	0.00035	439943.36	3761716.33	0.00063
439170.17	3763092.51	0.00028	439220.17	3763092.51	0.00029
439270.17	3763092.51	0.00031	439320.17	3763092.51	0.00032
439370.17	3763092.51	0.00033	439420.17	3763092.51	0.00035
439470.17	3763092.51	0.00036	439520.17	3763092.51	0.00038
439570.17	3763092.51	0.00039	439620.17		

```
3763092.51        0.00040
         439670.17    3763092.51        0.00041                    439720.17
3763092.51        0.00042
         439770.17    3763092.51        0.00045                    439820.17
3763092.51        0.00049
         439870.17    3763092.51        0.00054                    439170.17
3763142.51        0.00024
         439220.17    3763142.51        0.00025                    439270.17
3763142.51        0.00026
         439320.17    3763142.51        0.00027                    439370.17
3763142.51        0.00028
         439420.17    3763142.51        0.00028                    439470.17
3763142.51        0.00029
         439520.17    3763142.51        0.00029                    439570.17
3763142.51        0.00030
         439620.17    3763142.51        0.00030                    439670.17
3763142.51        0.00031
         439720.17    3763142.51        0.00033                    439770.17
3763142.51        0.00035
         439820.17    3763142.51        0.00038                    439870.17
3763142.51        0.00043
         439170.17    3763192.51        0.00021                    439220.17
3763192.51        0.00022
         439270.17    3763192.51        0.00022                    439320.17
3763192.51        0.00022
         439370.17    3763192.51        0.00022                    439420.17
3763192.51        0.00023
         439470.17    3763192.51        0.00023                    439520.17
3763192.51        0.00023
         439570.17    3763192.51        0.00023                    439620.17
3763192.51        0.00024
         439670.17    3763192.51        0.00025                    439720.17
3763192.51        0.00026
         439770.17    3763192.51        0.00028                    439820.17
3763192.51        0.00031
         439870.17    3763192.51        0.00035                    439170.17
3763242.51        0.00018
         439220.17    3763242.51        0.00018                    439270.17
3763242.51        0.00018
         439320.17    3763242.51        0.00018                    439370.17
3763242.51        0.00018
         439420.17    3763242.51        0.00018                    439470.17
3763242.51        0.00018
         439520.17    3763242.51        0.00018                    439570.17
3763242.51        0.00018
         439620.17    3763242.51        0.00019                    439670.17
3763242.51        0.00020
         439720.17    3763242.51        0.00022                    439770.17
3763242.51        0.00024
         439820.17    3763242.51        0.00026                    439870.17
3763242.51        0.00029
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.00012	439370.17	3763342.51	0.00012
439420.17	3763342.51	0.00012	439470.17	3763342.51	0.00012
439520.17	3763342.51	0.00012	439570.17	3763342.51	0.00012
439620.17	3763342.51	0.00013	439670.17	3763342.51	0.00015
439720.17	3763342.51	0.00016	439770.17	3763342.51	0.00018

```
         439820.17    3763342.51        0.00020                    439870.17
3763342.51        0.00022
         439170.17    3763392.51        0.00010                    439220.17
3763392.51        0.00010
         439270.17    3763392.51        0.00010                    439320.17
3763392.51        0.00010
         439370.17    3763392.51        0.00010                    439420.17
3763392.51        0.00010
         439470.17    3763392.51        0.00010                    439520.17
3763392.51        0.00010
         439570.17    3763392.51        0.00011                    439620.17
3763392.51        0.00012
         439670.17    3763392.51        0.00013                    439720.17
3763392.51        0.00014
         439770.17    3763392.51        0.00016                    439820.17
3763392.51        0.00018
         439870.17    3763392.51        0.00019                    439170.17
3763442.51        0.00009
         439220.17    3763442.51        0.00008                    439270.17
3763442.51        0.00008
         439320.17    3763442.51        0.00008                    439370.17
3763442.51        0.00008
         439420.17    3763442.51        0.00008                    439470.17
3763442.51        0.00008
         439520.17    3763442.51        0.00009                    439570.17
3763442.51        0.00010
         439620.17    3763442.51        0.00011                    439670.17
3763442.51        0.00012
         439720.17    3763442.51        0.00013                    439770.17
3763442.51        0.00014
         439820.17    3763442.51        0.00016                    439870.17
3763442.51        0.00017
         439203.20    3762911.16        0.00042                    439253.20
3762911.16        0.00046
         439303.20    3762911.16        0.00050                    439353.20
3762911.16        0.00055
         439403.20    3762911.16        0.00061                    439453.20
3762911.16        0.00067
         439503.20    3762911.16        0.00075                    439553.20
3762911.16        0.00084
         439203.20    3762961.16        0.00038                    439253.20
3762961.16        0.00042
         439303.20    3762961.16        0.00045                    439353.20
3762961.16        0.00049
         439403.20    3762961.16        0.00053                    439453.20
3762961.16        0.00058
         439503.20    3762961.16        0.00064                    439553.20
3762961.16        0.00070
         439203.20    3763011.16        0.00035                    439253.20
3763011.16        0.00037
         439303.20    3763011.16        0.00040                    439353.20
```

3763011.16   0.00043
         439403.20   3763011.16   0.00046   439453.20
3763011.16   0.00049
         439503.20   3763011.16   0.00053   439553.20
3763011.16   0.00057
         439203.20   3763061.16   0.00031   439253.20
3763061.16   0.00033
         439303.20   3763061.16   0.00035   439353.20
3763061.16   0.00037
         439403.20   3763061.16   0.00039   439453.20
3763061.16   0.00041
         439503.20   3763061.16   0.00043   439553.20
3763061.16   0.00045
         439196.01   3762392.48   0.00060   439246.01
3762392.48   0.00067
         439296.01   3762392.48   0.00075   439346.01
3762392.48   0.00084
         439396.01   3762392.48   0.00096   439446.01
3762392.48   0.00110

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , PAREA2
, PAREA3   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439496.01   3762392.48   0.00128   439546.01
3762392.48   0.00150
         439196.01   3762442.48   0.00061   439246.01
3762442.48   0.00068
         439296.01   3762442.48   0.00076   439346.01
3762442.48   0.00086
         439396.01   3762442.48   0.00099   439446.01
3762442.48   0.00114
         439496.01   3762442.48   0.00132   439546.01

```
3762442.48        0.00156
         439196.01    3762492.48        0.00061                    439246.01
3762492.48        0.00068
         439296.01    3762492.48        0.00077                    439346.01
3762492.48        0.00088
         439396.01    3762492.48        0.00100                    439446.01
3762492.48        0.00116
         439496.01    3762492.48        0.00135                    439546.01
3762492.48        0.00159
         439196.01    3762542.48        0.00060                    439246.01
3762542.48        0.00068
         439296.01    3762542.48        0.00077                    439346.01
3762542.48        0.00088
         439396.01    3762542.48        0.00100                    439446.01
3762542.48        0.00116
         439496.01    3762542.48        0.00136                    439546.01
3762542.48        0.00160
         439196.01    3762592.48        0.00059                    439246.01
3762592.48        0.00067
         439296.01    3762592.48        0.00076                    439346.01
3762592.48        0.00086
         439396.01    3762592.48        0.00099                    439446.01
3762592.48        0.00114
         439496.01    3762592.48        0.00134                    439546.01
3762592.48        0.00157
         439196.01    3762642.48        0.00058                    439246.01
3762642.48        0.00065
         439296.01    3762642.48        0.00073                    439346.01
3762642.48        0.00083
         439396.01    3762642.48        0.00095                    439446.01
3762642.48        0.00110
         439496.01    3762642.48        0.00128                    439546.01
3762642.48        0.00151
         439196.01    3762692.48        0.00055                    439246.01
3762692.48        0.00062
         439296.01    3762692.48        0.00069                    439346.01
3762692.48        0.00079
         439396.01    3762692.48        0.00090                    439446.01
3762692.48        0.00104
         439496.01    3762692.48        0.00120                    439546.01
3762692.48        0.00141
         439196.01    3762742.48        0.00052                    439246.01
3762742.48        0.00058
         439296.01    3762742.48        0.00065                    439346.01
3762742.48        0.00074
         439396.01    3762742.48        0.00083                    439446.01
3762742.48        0.00096
         439496.01    3762742.48        0.00110                    439546.01
3762742.48        0.00129
         439196.01    3762792.48        0.00049                    439246.01
3762792.48        0.00054
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         439296.01    3762792.48        0.00061                       439346.01
3762792.48        0.00068
         439396.01    3762792.48        0.00076                       439446.01
3762792.48        0.00087
         439496.01    3762792.48        0.00100                       439546.01
3762792.48        0.00116
         439196.01    3762842.48        0.00046                       439246.01
3762842.48        0.00051
         439296.01    3762842.48        0.00056                       439346.01
3762842.48        0.00062
         439396.01    3762842.48        0.00069                       439446.01
3762842.48        0.00078
         439496.01    3762842.48        0.00089                       439546.01
3762842.48        0.00102
         439573.31    3762470.54        0.00173                       439623.31
3762470.54        0.00209
         439673.31    3762470.54        0.00256                       439723.31
3762470.54        0.00324
         439773.31    3762470.54        0.00426                       439823.31
3762470.54        0.00593
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        13:58:33

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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN    ***
                                  INCLUDING SOURCE(S):     PAREA1      , PAREA2
, PAREA3      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439873.31    3762470.54        0.00902                       439573.31
3762520.54        0.00176
         439623.31    3762520.54        0.00211                       439673.31
3762520.54        0.00257
         439723.31    3762520.54        0.00320                       439773.31
3762520.54        0.00410
         439823.31    3762520.54        0.00548                       439873.31
3762520.54        0.00774
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         439573.31    3762570.54        0.00175                    439623.31
3762570.54        0.00210
         439673.31    3762570.54        0.00255                    439723.31
3762570.54        0.00315
         439773.31    3762570.54        0.00399                    439823.31
3762570.54        0.00526
         439873.31    3762570.54        0.00733                    439573.31
3762620.54        0.00170
         439623.31    3762620.54        0.00204                    439673.31
3762620.54        0.00248
         439723.31    3762620.54        0.00309                    439773.31
3762620.54        0.00396
         439823.31    3762620.54        0.00535                    439873.31
3762620.54        0.00792
         439573.31    3762670.54        0.00161                    439623.31
3762670.54        0.00193
         439673.31    3762670.54        0.00236                    439723.31
3762670.54        0.00297
         439773.31    3762670.54        0.00389                    439823.31
3762670.54        0.00541
         439873.31    3762670.54        0.00826                    439152.35
3761448.92        0.00016
         439202.35    3761448.92        0.00018                    439252.35
3761448.92        0.00019
         439302.35    3761448.92        0.00021                    439352.35
3761448.92        0.00023
         439402.35    3761448.92        0.00025                    439452.35
3761448.92        0.00028
         439502.35    3761448.92        0.00030                    439552.35
3761448.92        0.00031
         439152.35    3761498.92        0.00017                    439202.35
3761498.92        0.00018
         439252.35    3761498.92        0.00020                    439302.35
3761498.92        0.00022
         439352.35    3761498.92        0.00024                    439402.35
3761498.92        0.00026
         439452.35    3761498.92        0.00029                    439502.35
3761498.92        0.00031
         439552.35    3761498.92        0.00033                    439152.35
3761548.92        0.00017
         439202.35    3761548.92        0.00019                    439252.35
3761548.92        0.00020
         439302.35    3761548.92        0.00022                    439352.35
3761548.92        0.00024
         439402.35    3761548.92        0.00027                    439452.35
3761548.92        0.00030
         439502.35    3761548.92        0.00033                    439552.35
3761548.92        0.00035
         439152.35    3761598.92        0.00018                    439202.35
3761598.92        0.00019
         439252.35    3761598.92        0.00021                    439302.35
```

3761598.92   0.00023
         439352.35   3761598.92   0.00025   439402.35
3761598.92   0.00028
         439452.35   3761598.92   0.00031   439502.35
3761598.92   0.00034
         439552.35   3761598.92   0.00038   439152.35
3761648.92   0.00019
         439202.35   3761648.92   0.00020   439252.35
3761648.92   0.00022
         439302.35   3761648.92   0.00024   439352.35
3761648.92   0.00026
         439402.35   3761648.92   0.00029   439452.35
3761648.92   0.00032
         439502.35   3761648.92   0.00036   439552.35
3761648.92   0.00040
         439152.35   3761698.92   0.00021   439202.35
3761698.92   0.00022
         439252.35   3761698.92   0.00023   439302.35
3761698.92   0.00025
         439352.35   3761698.92   0.00027   439402.35
3761698.92   0.00030

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN   ***
                                  INCLUDING SOURCE(S):   PAREA1   , PAREA2
, PAREA3   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                     ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 - - -

3761748.92 0.00029
439402.35 3761748.92 0.00032 439452.35
3761748.92 0.00035
439502.35 3761748.92 0.00040 439552.35
3761748.92 0.00045
439152.35 3761798.92 0.00024 439202.35
3761798.92 0.00025
439252.35 3761798.92 0.00027 439302.35
3761798.92 0.00029
439352.35 3761798.92 0.00031 439402.35
3761798.92 0.00034
439452.35 3761798.92 0.00037 439502.35
3761798.92 0.00042
439552.35 3761798.92 0.00047 439152.35
3761848.92 0.00027
439202.35 3761848.92 0.00028 439252.35
3761848.92 0.00029
439302.35 3761848.92 0.00031 439352.35
3761848.92 0.00034
439402.35 3761848.92 0.00037 439452.35
3761848.92 0.00040
439502.35 3761848.92 0.00045 439552.35
3761848.92 0.00051
439152.35 3761898.92 0.00029 439202.35
3761898.92 0.00031
439252.35 3761898.92 0.00032 439302.35
3761898.92 0.00034
439352.35 3761898.92 0.00037 439402.35
3761898.92 0.00040
439452.35 3761898.92 0.00044 439502.35
3761898.92 0.00049
439552.35 3761898.92 0.00055 439152.35
3761948.92 0.00032
439202.35 3761948.92 0.00034 439252.35
3761948.92 0.00036
439302.35 3761948.92 0.00038 439352.35
3761948.92 0.00041
439402.35 3761948.92 0.00044 439452.35
3761948.92 0.00048
439502.35 3761948.92 0.00054 439552.35
3761948.92 0.00061
439152.35 3761998.92 0.00035 439202.35
3761998.92 0.00037
439252.35 3761998.92 0.00040 439302.35
3761998.92 0.00042
439352.35 3761998.92 0.00045 439402.35
3761998.92 0.00049
439452.35 3761998.92 0.00054 439502.35
3761998.92 0.00060
439552.35 3761998.92 0.00068 439152.35
3762048.92 0.00038

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439202.35	3762048.92	0.00041	439252.35	3762048.92	0.00044
439302.35	3762048.92	0.00047	439352.35	3762048.92	0.00051
439402.35	3762048.92	0.00055	439452.35	3762048.92	0.00061
439502.35	3762048.92	0.00068	439552.35	3762048.92	0.00076
439616.61	3761420.65	0.00032	439666.61	3761420.65	0.00032
439716.61	3761420.65	0.00032	439766.61	3761420.65	0.00031
439816.61	3761420.65	0.00031	439866.61	3761420.65	0.00030
439616.61	3761470.65	0.00034	439666.61	3761470.65	0.00035
439716.61	3761470.65	0.00035	439766.61	3761470.65	0.00035
439816.61	3761470.65	0.00034	439866.61	3761470.65	0.00033
439616.61	3761520.65	0.00037	439666.61	3761520.65	0.00038
439716.61	3761520.65	0.00039	439766.61	3761520.65	0.00039
439816.61	3761520.65	0.00039	439866.61	3761520.65	0.00038
439616.61	3761570.65	0.00040	439666.61	3761570.65	0.00042

```
         439716.61    3761570.65        0.00043                    439766.61
3761570.65        0.00044
         439816.61    3761570.65        0.00043                    439866.61
3761570.65        0.00043
         440451.14    3762893.83        0.01488                    440501.14
3762893.83        0.01294
         440551.14    3762893.83        0.01121                    440601.14
3762893.83        0.00971
         440651.14    3762893.83        0.00846                    440701.14
3762893.83        0.00741
         440751.14    3762893.83        0.00656                    440801.14
3762893.83        0.00582
         440851.14    3762893.83        0.00521                    440451.14
3762943.83        0.00946
         440501.14    3762943.83        0.00882                    440551.14
3762943.83        0.00811
         440601.14    3762943.83        0.00735                    440651.14
3762943.83        0.00666
         440701.14    3762943.83        0.00602                    440751.14
3762943.83        0.00546
         440801.14    3762943.83        0.00493                    440851.14
3762943.83        0.00446
         441116.67    3763135.31        0.00176                    441166.67
3763135.31        0.00168
         441116.67    3763185.31        0.00154                    441166.67
3763185.31        0.00148
         441116.67    3763235.31        0.00134                    441166.67
3763235.31        0.00129
         441116.67    3763285.31        0.00116                    441166.67
3763285.31        0.00113
         441116.67    3763335.31        0.00101                    441166.67
3763335.31        0.00099
         441116.67    3763385.31        0.00089                    441166.67
3763385.31        0.00087
         441116.67    3763435.31        0.00078                    441166.67
3763435.31        0.00077
         440433.43    3762815.13        0.03218                    440483.43
3762815.13        0.02365
         440533.43    3762815.13        0.01836                    440583.43
3762815.13        0.01474
         440633.43    3762815.13        0.01215                    440683.43
3762815.13        0.01023
         440733.43    3762815.13        0.00874                    440783.43
3762815.13        0.00756
         440833.43    3762815.13        0.00661                    440883.43
3762815.13        0.00582
         440933.43    3762815.13        0.00517                    440983.43
3762815.13        0.00462
         440433.43    3762865.13        0.02080                    440483.43
3762865.13        0.01707
         440533.43    3762865.13        0.01415                    440583.43
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3762865.13        0.01188
         440633.43    3762865.13        0.01010                        440683.43
3762865.13        0.00869
         440733.43    3762865.13        0.00755                        440783.43
3762865.13        0.00663
         440833.43    3762865.13        0.00586                        440883.43
3762865.13        0.00522
         440933.43    3762865.13        0.00468                        440983.43
3762865.13        0.00421
         441118.27    3762686.02        0.00393                        441168.27
3762686.02        0.00355
         441118.27    3762736.02        0.00380                        441168.27
3762736.02        0.00344
         441118.27    3762786.02        0.00362                        441168.27
3762786.02        0.00328
         441118.27    3762836.02        0.00339                        441168.27
3762836.02        0.00309
         440411.67    3762093.41        0.00424                        440461.67
3762093.41        0.00390
         440511.67    3762093.41        0.00361                        440561.67
3762093.41        0.00336
         440611.67    3762093.41        0.00314                        440411.67
3762143.41        0.00588
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       13:58:33

                                    PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                 *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1GEN    ***
                                    INCLUDING SOURCE(S):     PAREA1      , PAREA2
, PAREA3      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                                ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         440461.67    3762143.41        0.00522                        440511.67
3762143.41        0.00471
         440561.67    3762143.41        0.00430                        440611.67
3762143.41        0.00396
         440406.61    3762008.86        0.00241                        440456.61
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3762008.86        0.00234
         440506.61    3762008.86        0.00226                    440556.61
3762008.86        0.00218
         440606.61    3762008.86        0.00210                    440656.61
3762008.86        0.00202
         440706.61    3762008.86        0.00194                    440756.61
3762008.86        0.00186
         440806.61    3762008.86        0.00179                    440856.61
3762008.86        0.00172
         440906.61    3762008.86        0.00165                    440956.61
3762008.86        0.00159
         441006.61    3762008.86        0.00153                    441056.61
3762008.86        0.00147
         441106.61    3762008.86        0.00142                    441156.61
3762008.86        0.00136
         440406.61    3762058.86        0.00337                    440456.61
3762058.86        0.00318
         440506.61    3762058.86        0.00300                    440556.61
3762058.86        0.00283
         440606.61    3762058.86        0.00268                    440656.61
3762058.86        0.00254
         440706.61    3762058.86        0.00240                    440756.61
3762058.86        0.00228
         440806.61    3762058.86        0.00217                    440856.61
3762058.86        0.00207
         440906.61    3762058.86        0.00197                    440956.61
3762058.86        0.00187
         441006.61    3762058.86        0.00179                    441056.61
3762058.86        0.00171
         441106.61    3762058.86        0.00163                    441156.61
3762058.86        0.00156
         440191.38    3762138.44        0.01230                    440241.38
3762138.44        0.01026
         440291.38    3762138.44        0.00833                    440341.38
3762138.44        0.00698
         440191.38    3762188.44        0.03572                    440241.38
3762188.44        0.01908
         440291.38    3762188.44        0.01291                    440341.38
3762188.44        0.00992
         440191.38    3762238.44        0.04595                    440241.38
3762238.44        0.02485
         440291.38    3762238.44        0.01682                    440341.38
3762238.44        0.01292
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       13:58:33

                                 PAGE  53
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	2.00971	439943.36	3761716.33	3.25361
439170.17	3763092.51	1.88161	439220.17	3763092.51	1.99384
439270.17	3763092.51	2.14244	439320.17	3763092.51	2.29832
439370.17	3763092.51	2.47768	439420.17	3763092.51	2.68644
439470.17	3763092.51	2.93449	439520.17	3763092.51	3.19219
439570.17	3763092.51	3.47528	439620.17	3763092.51	3.77268
439670.17	3763092.51	4.10546	439720.17	3763092.51	4.48684
439770.17	3763092.51	4.91763	439820.17	3763092.51	5.37326
439870.17	3763092.51	5.86015	439170.17	3763142.51	1.78822
439220.17	3763142.51	1.90195	439270.17	3763142.51	2.03872
439320.17	3763142.51	2.17783	439370.17	3763142.51	2.33958
439420.17	3763142.51	2.52660	439470.17	3763142.51	2.71743
439520.17	3763142.51	2.93013	439570.17	3763142.51	3.18266
439620.17	3763142.51	3.44766	439670.17	3763142.51	3.70548
439720.17	3763142.51	3.99415	439770.17	3763142.51	4.31233

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         439820.17    3763142.51        4.64468                    439870.17
3763142.51        4.98138
         439170.17    3763192.51        1.70684                    439220.17
3763192.51        1.81275
         439270.17    3763192.51        1.93830                    439320.17
3763192.51        2.05558
         439370.17    3763192.51        2.20341                    439420.17
3763192.51        2.37143
         439470.17    3763192.51        2.53205                    439520.17
3763192.51        2.71442
         439570.17    3763192.51        2.91898                    439620.17
3763192.51        3.14269
         439670.17    3763192.51        3.33014                    439720.17
3763192.51        3.52653
         439770.17    3763192.51        3.74431                    439820.17
3763192.51        3.98827
         439870.17    3763192.51        4.21677                    439170.17
3763242.51        1.62092
         439220.17    3763242.51        1.71886                    439270.17
3763242.51        1.83281
         439320.17    3763242.51        1.94536                    439370.17
3763242.51        2.07480
         439420.17    3763242.51        2.21286                    439470.17
3763242.51        2.34199
         439520.17    3763242.51        2.49840                    439570.17
3763242.51        2.67131
         439620.17    3763242.51        2.85692                    439670.17
3763242.51        3.01461
         439720.17    3763242.51        3.15267                    439770.17
3763242.51        3.28162
         439820.17    3763242.51        3.38036                    439870.17
3763242.51        3.46252
         439170.17    3763292.51        1.52723                    439220.17
3763292.51        1.59240
         439270.17    3763292.51        1.68939                    439320.17
3763292.51        1.80180
         439370.17    3763292.51        1.93244                    439420.17
3763292.51        2.03296
         439470.17    3763292.51        2.14025                    439520.17
3763292.51        2.25853
         439570.17    3763292.51        2.43339                    439620.17
3763292.51        2.57058
         439670.17    3763292.51        2.71049                    439720.17
3763292.51        2.79153
         439770.17    3763292.51        2.75075                    439820.17
3763292.51        2.83511
         439870.17    3763292.51        2.95636                    439170.17
3763342.51        1.43374
         439220.17    3763342.51        1.48788                    439270.17
3763342.51        1.59952
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	1.69378	439370.17	3763342.51	1.80757
439420.17	3763342.51	1.89295	439470.17	3763342.51	1.97934
439520.17	3763342.51	2.06870	439570.17	3763342.51	2.20458
439620.17	3763342.51	2.34065	439670.17	3763342.51	2.42879
439720.17	3763342.51	2.45732	439770.17	3763342.51	2.41469
439820.17	3763342.51	2.48685	439870.17	3763342.51	2.56932
439170.17	3763392.51	1.32708	439220.17	3763392.51	1.36941
439270.17	3763392.51	1.49483	439320.17	3763392.51	1.54484
439370.17	3763392.51	1.64609	439420.17	3763392.51	1.68581
439470.17	3763392.51	1.72959	439520.17	3763392.51	1.87151
439570.17	3763392.51	1.98812	439620.17	3763392.51	2.10837
439670.17	3763392.51	2.10201	439720.17		

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3763392.51        2.16535
         439770.17    3763392.51        2.16793                   439820.17
3763392.51        2.21590
         439870.17    3763392.51        2.26965                   439170.17
3763442.51        1.21700
         439220.17    3763442.51        1.26941                   439270.17
3763442.51        1.37013
         439320.17    3763442.51        1.42937                   439370.17
3763442.51        1.48106
         439420.17    3763442.51        1.54683                   439470.17
3763442.51        1.59080
         439520.17    3763442.51        1.69106                   439570.17
3763442.51        1.76243
         439620.17    3763442.51        1.84225                   439670.17
3763442.51        1.87631
         439720.17    3763442.51        1.91910                   439770.17
3763442.51        1.94402
         439820.17    3763442.51        1.98093                   439870.17
3763442.51        2.02582
         439203.20    3762911.16        2.30965                   439253.20
3762911.16        2.49730
         439303.20    3762911.16        2.71870                   439353.20
3762911.16        2.99255
         439403.20    3762911.16        3.28407                   439453.20
3762911.16        3.62550
         439503.20    3762911.16        4.02892                   439553.20
3762911.16        4.49487
         439203.20    3762961.16        2.22283                   439253.20
3762961.16        2.40080
         439303.20    3762961.16        2.60095                   439353.20
3762961.16        2.83926
         439403.20    3762961.16        3.11407                   439453.20
3762961.16        3.41516
         439503.20    3762961.16        3.78203                   439553.20
3762961.16        4.19041
         439203.20    3763011.16        2.11859                   439253.20
3763011.16        2.27869
         439303.20    3763011.16        2.46106                   439353.20
3763011.16        2.66600
         439403.20    3763011.16        2.94954                   439453.20
3763011.16        3.20983
         439503.20    3763011.16        3.54271                   439553.20
3763011.16        3.87019
         439203.20    3763061.16        2.02389                   439253.20
3763061.16        2.15424
         439303.20    3763061.16        2.31355                   439353.20
3763061.16        2.49643
         439403.20    3763061.16        2.71093                   439453.20
3763061.16        2.96447
         439503.20    3763061.16        3.26134                   439553.20
3763061.16        3.54903
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	4.95054	439546.01	3762392.48	5.67885
439196.01	3762442.48	2.62809	439246.01	3762442.48	2.88146
439296.01	3762442.48	3.17867	439346.01	3762442.48	3.52575
439396.01	3762442.48	3.93820	439446.01	3762442.48	4.43471
439496.01	3762442.48	5.03887	439546.01	3762442.48	5.78744
439196.01	3762492.48	2.63672	439246.01	3762492.48	2.89166
439296.01	3762492.48	3.19095	439346.01	3762492.48	3.54306
439396.01	3762492.48	3.95974	439446.01	3762492.48	4.46087

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         439496.01    3762492.48        5.07667                    439546.01
3762492.48        5.83787
         439196.01    3762542.48        2.63437                    439246.01
3762542.48        2.88859
         439296.01    3762542.48        3.18699                    439346.01
3762542.48        3.53695
         439396.01    3762542.48        3.95453                    439446.01
3762542.48        4.45564
         439496.01    3762542.48        5.07083                    439546.01
3762542.48        5.82722
         439196.01    3762592.48        2.62076                    439246.01
3762592.48        2.87475
         439296.01    3762592.48        3.16929                    439346.01
3762592.48        3.51447
         439396.01    3762592.48        3.92497                    439446.01
3762592.48        4.41967
         439496.01    3762592.48        5.02571                    439546.01
3762592.48        5.76813
         439196.01    3762642.48        2.59621                    439246.01
3762642.48        2.84582
         439296.01    3762642.48        3.13323                    439346.01
3762642.48        3.46986
         439396.01    3762642.48        3.87209                    439446.01
3762642.48        4.35437
         439496.01    3762642.48        4.94275                    439546.01
3762642.48        5.66195
         439196.01    3762692.48        2.56087                    439246.01
3762692.48        2.80317
         439296.01    3762692.48        3.08461                    439346.01
3762692.48        3.41271
         439396.01    3762692.48        3.79782                    439446.01
3762692.48        4.26137
         439496.01    3762692.48        4.82484                    439546.01
3762692.48        5.51129
         439196.01    3762742.48        2.51540                    439246.01
3762742.48        2.74843
         439296.01    3762742.48        3.01904                    439346.01
3762742.48        3.33341
         439396.01    3762742.48        3.70324                    439446.01
3762742.48        4.14308
         439496.01    3762742.48        4.67499                    439546.01
3762742.48        5.31981
         439196.01    3762792.48        2.46065                    439246.01
3762792.48        2.68299
         439296.01    3762792.48        2.94088                    439346.01
3762792.48        3.23956
         439396.01    3762792.48        3.58886                    439446.01
3762792.48        4.00089
         439496.01    3762792.48        4.49490                    439546.01
3762792.48        5.08825
         439196.01    3762842.48        2.39501                    439246.01
```

3762842.48   2.60928
         439296.01   3762842.48   2.85195   439346.01
3762842.48   3.13208
         439396.01   3762842.48   3.45760   439446.01
3762842.48   3.83988
         439496.01   3762842.48   4.28355   439546.01
3762842.48   4.80522
         439573.31   3762470.54   6.31162   439623.31
3762470.54   7.41533
         439673.31   3762470.54   8.86471   439723.31
3762470.54   10.83988
         439773.31   3762470.54   13.68894   439823.31
3762470.54   18.13443

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0013407   , L0013408
, L0013409   , L0013410   , L0013411   ,
                  L0013412   , L0013413   , L0013414   , L0013415   , L0013416
, L0013417   , L0013418   , L0013419   ,
                  L0013420   , L0013421   , L0013422   , L0013423   , L0013424
, L0013425   , L0013426   , L0013427   ,
                  L0013428   , L0013429   , L0013430   , L0013431   , L0013432
, L0013433   , L0013434   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439873.31   3762470.54   25.93434   439573.31
3762520.54   6.32846
         439623.31   3762520.54   7.42706   439673.31
3762520.54   8.86657
         439723.31   3762520.54   10.80630   439773.31
3762520.54   13.52217
         439823.31   3762520.54   17.54979   439873.31
3762520.54   24.57904
         439573.31   3762570.54   6.28438   439623.31

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3762570.54        7.36438
         439673.31    3762570.54        8.76893                    439723.31
3762570.54       10.63708
         439773.31    3762570.54       13.20335                    439823.31
3762570.54       16.88865
         439873.31    3762570.54       22.71063                    439573.31
3762620.54        6.18574
         439623.31    3762620.54        7.23155                    439673.31
3762620.54        8.58086
         439723.31    3762620.54       10.36960                    439773.31
3762620.54       12.80129
         439823.31    3762620.54       16.25115                    439873.31
3762620.54       21.45239
         439573.31    3762670.54        6.03459                    439623.31
3762670.54        7.03728
         439673.31    3762670.54        8.31966                    439723.31
3762670.54       10.01630
         439773.31    3762670.54       12.34447                    439823.31
3762670.54       15.67550
         439873.31    3762670.54       20.78114                    439152.35
3761448.92        1.29297
         439202.35    3761448.92        1.33675                    439252.35
3761448.92        1.38446
         439302.35    3761448.92        1.43300                    439352.35
3761448.92        1.48271
         439402.35    3761448.92        1.53322                    439452.35
3761448.92        1.58397
         439502.35    3761448.92        1.63730                    439552.35
3761448.92        1.68808
         439152.35    3761498.92        1.35271                    439202.35
3761498.92        1.40473
         439252.35    3761498.92        1.46069                    439302.35
3761498.92        1.51241
         439352.35    3761498.92        1.56640                    439402.35
3761498.92        1.62191
         439452.35    3761498.92        1.67829                    439502.35
3761498.92        1.73947
         439552.35    3761498.92        1.79862                    439152.35
3761548.92        1.41473
         439202.35    3761548.92        1.47232                    439252.35
3761548.92        1.53346
         439302.35    3761548.92        1.59208                    439352.35
3761548.92        1.65167
         439402.35    3761548.92        1.71643                    439452.35
3761548.92        1.78195
         439502.35    3761548.92        1.84916                    439552.35
3761548.92        1.91863
         439152.35    3761598.92        1.47879                    439202.35
3761598.92        1.54169
         439252.35    3761598.92        1.60956                    439302.35
3761598.92        1.67854
```

```
         439352.35    3761598.92        1.74622                      439402.35
3761598.92        1.82086
         439452.35    3761598.92        1.89760                      439502.35
3761598.92        1.97286
         439552.35    3761598.92        2.05385                      439152.35
3761648.92        1.54387
         439202.35    3761648.92        1.61535                      439252.35
3761648.92        1.69187
         439302.35    3761648.92        1.77095                      439352.35
3761648.92        1.85060
         439402.35    3761648.92        1.93584                      439452.35
3761648.92        2.02273
         439502.35    3761648.92        2.11384                      439552.35
3761648.92        2.20658
         439152.35    3761698.92        1.61104                      439202.35
3761698.92        1.69024
         439252.35    3761698.92        1.77349                      439302.35
3761698.92        1.86407
         439352.35    3761698.92        1.95939                      439402.35
3761698.92        2.05985
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        13:58:33

                                   PAGE  57
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL      ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
         439452.35    3761698.92        2.15552                      439502.35
3761698.92        2.26411
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         439552.35    3761698.92        2.37461                    439152.35
3761748.92        1.67831
         439202.35    3761748.92        1.76802                    439252.35
3761748.92        1.85948
         439302.35    3761748.92        1.96251                    439352.35
3761748.92        2.06966
         439402.35    3761748.92        2.18315                    439452.35
3761748.92        2.29855
         439502.35    3761748.92        2.41761                    439552.35
3761748.92        2.55051
         439152.35    3761798.92        1.74710                    439202.35
3761798.92        1.84802
         439252.35    3761798.92        1.95295                    439302.35
3761798.92        2.06984
         439352.35    3761798.92        2.18723                    439402.35
3761798.92        2.31565
         439452.35    3761798.92        2.45622                    439502.35
3761798.92        2.59238
         439552.35    3761798.92        2.75042                    439152.35
3761848.92        1.81712
         439202.35    3761848.92        1.92787                    439252.35
3761848.92        2.04382
         439302.35    3761848.92        2.17305                    439352.35
3761848.92        2.30678
         439402.35    3761848.92        2.46119                    439452.35
3761848.92        2.62011
         439502.35    3761848.92        2.78033                    439552.35
3761848.92        2.96856
         439152.35    3761898.92        1.88859                    439202.35
3761898.92        2.00894
         439252.35    3761898.92        2.13730                    439302.35
3761898.92        2.28594
         439352.35    3761898.92        2.44088                    439402.35
3761898.92        2.60976
         439452.35    3761898.92        2.80136                    439502.35
3761898.92        3.00125
         439552.35    3761898.92        3.21771                    439152.35
3761948.92        1.95849
         439202.35    3761948.92        2.08934                    439252.35
3761948.92        2.23041
         439302.35    3761948.92        2.39689                    439352.35
3761948.92        2.57444
         439402.35    3761948.92        2.76497                    439452.35
3761948.92        2.98656
         439502.35    3761948.92        3.22564                    439552.35
3761948.92        3.48620
         439152.35    3761998.92        2.02718                    439202.35
3761998.92        2.16810
         439252.35    3761998.92        2.32269                    439302.35
3761998.92        2.50703
         439352.35    3761998.92        2.70894                    439402.35
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3761998.92        2.92323
         439452.35    3761998.92        3.17073                        439502.35
3761998.92        3.44668
         439552.35    3761998.92        3.75759                        439152.35
3762048.92        2.09393
         439202.35    3762048.92        2.25081                        439252.35
3762048.92        2.42511
         439302.35    3762048.92        2.62085                        439352.35
3762048.92        2.84021
         439402.35    3762048.92        3.08451                        439452.35
3762048.92        3.36623
         439502.35    3762048.92        3.68503                        439552.35
3762048.92        4.04727
         439616.61    3761420.65        1.68885                        439666.61
3761420.65        1.73550
         439716.61    3761420.65        1.77919                        439766.61
3761420.65        1.81966
         439816.61    3761420.65        1.85419                        439866.61
3761420.65        1.88724
         439616.61    3761470.65        1.80245                        439666.61
3761470.65        1.85507
         439716.61    3761470.65        1.90579                        439766.61
3761470.65        1.95305
         439816.61    3761470.65        1.99393                        439866.61
3761470.65        2.03399
         439616.61    3761520.65        1.92808                        439666.61
3761520.65        1.98962
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       13:58:33

                                    PAGE  58
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	2.04900	439766.61	3761520.65	2.10654
439816.61	3761520.65	2.15592	439866.61	3761520.65	2.20224
439616.61	3761570.65	2.06997	439666.61	3761570.65	2.14198
439716.61	3761570.65	2.21240	439766.61	3761570.65	2.28082
439816.61	3761570.65	2.34189	439866.61	3761570.65	2.39450
440451.14	3762893.83	19.42508	440501.14	3762893.83	16.90455
440551.14	3762893.83	14.76752	440601.14	3762893.83	12.97812
440651.14	3762893.83	11.50030	440701.14	3762893.83	10.26557
440751.14	3762893.83	9.22397	440801.14	3762893.83	8.32977
440851.14	3762893.83	7.55693	440451.14	3762943.83	14.85364
440501.14	3762943.83	13.47745	440551.14	3762943.83	12.22214
440601.14	3762943.83	11.06040	440651.14	3762943.83	10.04006
440701.14	3762943.83	9.13763	440751.14	3762943.83	8.34594
440801.14	3762943.83	7.63421	440851.14	3762943.83	7.00441
441116.67	3763135.31	3.68844	441166.67	3763135.31	3.51427
441116.67	3763185.31	3.41732	441166.67	3763185.31	3.27218
441116.67	3763235.31	3.14873	441166.67	3763235.31	3.03277
441116.67	3763285.31	2.90706	441166.67	3763285.31	2.81911
441116.67	3763335.31	2.63897	441166.67	3763335.31	2.58826
441116.67	3763385.31	2.38798	441166.67	3763385.31	2.35465
441116.67	3763435.31	2.15634	441166.67	3763435.31	2.13817
440433.43	3762815.13	31.37238	440483.43	3762815.13	24.47268
440533.43	3762815.13	19.95330	440583.43	3762815.13	16.67641

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         440633.43    3762815.13       14.22627                       440683.43
3762815.13       12.31857
         440733.43    3762815.13       10.80252                       440783.43
3762815.13        9.55942
         440833.43    3762815.13        8.55727                       440883.43
3762815.13        7.70079
         440933.43    3762815.13        6.94798                       440983.43
3762815.13        6.32134
         440433.43    3762865.13       24.15369                       440483.43
3762865.13       20.26113
         440533.43    3762865.13       17.19031                       440583.43
3762865.13       14.78779
         440633.43    3762865.13       12.88148                       440683.43
3762865.13       11.34319
         440733.43    3762865.13       10.07518                       440783.43
3762865.13        9.01680
         440833.43    3762865.13        8.11799                       440883.43
3762865.13        7.33905
         440933.43    3762865.13        6.67592                       440983.43
3762865.13        6.10413
         441118.27    3762686.02        5.09520                       441168.27
3762686.02        4.69938
         441118.27    3762736.02        5.11779                       441168.27
3762736.02        4.70858
         441118.27    3762786.02        5.06732                       441168.27
3762786.02        4.68016
         441118.27    3762836.02        4.96646                       441168.27
3762836.02        4.59659
         440411.67    3762093.41        7.08986                       440461.67
3762093.41        6.53089
         440511.67    3762093.41        6.03773                       440561.67
3762093.41        5.59267
         440611.67    3762093.41        5.19097                       440411.67
3762143.41        8.34575
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       13:58:33

                                  PAGE  59
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
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, L0013433   , L0013434   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	7.57800	440511.67	3762143.41	6.92459
440561.67	3762143.41	6.34553	440611.67	3762143.41	5.84495
440406.61	3762008.86	5.53343	440456.61	3762008.86	5.19513
440506.61	3762008.86	4.87702	440556.61	3762008.86	4.57870
440606.61	3762008.86	4.30448	440656.61	3762008.86	4.05212
440706.61	3762008.86	3.82111	440756.61	3762008.86	3.60926
440806.61	3762008.86	3.40600	440856.61	3762008.86	3.22854
440906.61	3762008.86	3.06939	440956.61	3762008.86	2.91596
441006.61	3762008.86	2.77489	441056.61	3762008.86	2.64133
441106.61	3762008.86	2.52060	441156.61	3762008.86	2.40914
440406.61	3762058.86	6.41370	440456.61	3762058.86	5.95761
440506.61	3762058.86	5.54461	440556.61	3762058.86	5.16768
440606.61	3762058.86	4.82321	440656.61	3762058.86	4.51352
440706.61	3762058.86	4.23540	440756.61	3762058.86	3.97974
440806.61	3762058.86	3.74006	440856.61	3762058.86	3.52919
440906.61	3762058.86	3.33874	440956.61	3762058.86	3.16109
441006.61	3762058.86	2.99761	441056.61	3762058.86	2.84775
441106.61	3762058.86	2.70978	441156.61	3762058.86	2.58282
440191.38	3762138.44	13.33600	440241.38	3762138.44	11.77104
440291.38	3762138.44	10.49678	440341.38		

3762138.44   9.40093
         440191.38   3762188.44   18.82122   440241.38
3762188.44   15.29382
         440291.38   3762188.44   13.12246   440341.38
3762188.44   11.44685
         440191.38   3762238.44   25.89899   440241.38
3762238.44   19.53650
         440291.38   3762238.44   16.15314   440341.38
3762238.44   13.77028

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P1ONRUN ***
                                    INCLUDING SOURCE(S):   L0013092   , L0013093
, L0013094   , L0013095   , L0013096   ,
                  L0013097   , L0013098   , L0013099   , L0013100   , L0013101
, L0013102   , L0013103   , L0013104   ,
                  L0013105   , L0013106   , L0013107   , L0013108   , L0013109
, L0013110   , L0013111   , L0013112   ,
                  L0013113   , L0013114   , L0013115   , L0013116   , L0013117
, L0013118   , L0013119   , . . .   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440407.86   3761497.84   3.61538 (12010924)   439943.36
3761716.33   5.17459m (13010324)
        439170.17   3763092.51   4.19261 (12011324)   439220.17
3763092.51   4.51813 (12011324)
        439270.17   3763092.51   4.80990 (12011324)   439320.17
3763092.51   5.16066 (12011324)
        439370.17   3763092.51   5.54085 (12011324)   439420.17
3763092.51   5.95579 (12011324)
        439470.17   3763092.51   6.38411 (12011324)   439520.17
3763092.51   6.83889 (12011324)
        439570.17   3763092.51   7.26198 (12011324)   439620.17
3763092.51   7.87546 (12020424)
        439670.17   3763092.51   8.71005 (12020424)   439720.17

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3763092.51        9.56676  (12020424)
        439770.17   3763092.51       10.27820  (12020424)                439820.17
3763092.51       10.64850  (12020424)
        439870.17   3763092.51       10.38999  (12020424)                439170.17
3763142.51        4.20394  (12011324)
        439220.17   3763142.51        4.46385  (12011324)                439270.17
3763142.51        4.73804  (12011324)
        439320.17   3763142.51        5.03728  (12011324)                439370.17
3763142.51        5.35555  (12011324)
        439420.17   3763142.51        5.68514  (12011324)                439470.17
3763142.51        5.99932  (12011324)
        439520.17   3763142.51        6.43924  (12020424)                439570.17
3763142.51        7.00821  (12020424)
        439620.17   3763142.51        7.63975  (12020424)                439670.17
3763142.51        8.25947  (12020424)
        439720.17   3763142.51        8.77564  (12020424)                439770.17
3763142.51        8.95734  (12020424)
        439820.17   3763142.51        8.66496  (12020424)                439870.17
3763142.51        9.10483  (13112324)
        439170.17   3763192.51        4.13039  (12011324)                439220.17
3763192.51        4.36147  (12011324)
        439270.17   3763192.51        4.58113  (12011324)                439320.17
3763192.51        4.83705  (12011324)
        439370.17   3763192.51        5.13001  (12020424)                439420.17
3763192.51        5.45904  (12020424)
        439470.17   3763192.51        5.87135  (12020424)                439520.17
3763192.51        6.31779  (12020424)
        439570.17   3763192.51        6.79331  (12020424)                439620.17
3763192.51        7.24849  (12020424)
        439670.17   3763192.51        7.61683  (12020424)                439720.17
3763192.51        7.70310  (12020424)
        439770.17   3763192.51        7.43247  (12020424)                439820.17
3763192.51        7.80395  (13112324)
        439870.17   3763192.51        8.26092  (13112324)                439170.17
3763242.51        4.01963  (12011324)
        439220.17   3763242.51        4.23441  (12020424)                439270.17
3763242.51        4.48567  (12020424)
        439320.17   3763242.51        4.76983  (12020424)                439370.17
3763242.51        5.06331  (12020424)
        439420.17   3763242.51        5.38570  (12020424)                439470.17
3763242.51        5.78117  (12020424)
        439520.17   3763242.51        6.14844  (12020424)                439570.17
3763242.51        6.46295  (12020424)
        439620.17   3763242.51        6.67472  (12020424)                439670.17
3763242.51        6.72269  (12020424)
        439720.17   3763242.51        6.47790  (12020424)                439770.17
3763242.51        6.77972  (13112324)
        439820.17   3763242.51        7.39374  (13112324)                439870.17
3763242.51        7.62780  (13112324)
        439170.17   3763292.51        4.04354  (12020424)                439220.17
3763292.51        4.33327  (12020424)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439270.17	3763292.51	4.59699	(12020424)	439320.17	3763292.51	4.84958	(12020424)
439370.17	3763292.51	5.06158	(12020424)	439420.17	3763292.51	5.40142	(12020424)
439470.17	3763292.51	5.68813	(12020424)	439520.17	3763292.51	5.92244	(12020424)
439570.17	3763292.51	5.99430	(12020424)	439620.17	3763292.51	5.96055	(12020424)
439670.17	3763292.51	5.72535	(12020424)	439720.17	3763292.51	5.94290	(13112324)
439770.17	3763292.51	6.60699	(13112324)	439820.17	3763292.51	6.86178	(13112324)
439870.17	3763292.51	6.81961	(13112324)	439170.17	3763342.51	4.07373	(12020424)
439220.17	3763342.51	4.34650	(12020424)	439270.17	3763342.51	4.54490	(12020424)
439320.17	3763342.51	4.77659	(12020424)	439370.17	3763342.51	4.96983	(12020424)
439420.17	3763342.51	5.19898	(12020424)	439470.17	3763342.51	5.38358	(12020424)
439520.17	3763342.51	5.48086	(12020424)	439570.17	3763342.51	5.37441	(12020424)

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        439620.17   3763342.51        5.11858  (12020424)              439670.17
3763342.51        5.23314  (13112324)
        439720.17   3763342.51        5.78459  (13112324)              439770.17
3763342.51        6.15669  (13112324)
        439820.17   3763342.51        6.23542  (13112324)              439870.17
3763342.51        6.03207  (13112324)
        439170.17   3763392.51        4.15533  (12020424)              439220.17
3763392.51        4.43405  (12020424)
        439270.17   3763392.51        4.49398  (12020424)              439320.17
3763392.51        4.82994  (12020424)
        439370.17   3763392.51        4.86847  (12020424)              439420.17
3763392.51        5.21720  (12020424)
        439470.17   3763392.51        5.28877  (12020424)              439520.17
3763392.51        5.05166  (12020424)
        439570.17   3763392.51        4.71153  (12020424)              439620.17
3763392.51        4.66805  (13112324)
        439670.17   3763392.51        5.17681  (13112324)              439720.17
3763392.51        5.46849  (13112324)
        439770.17   3763392.51        5.65946  (13112324)              439820.17
3763392.51        5.58057  (13112324)
        439870.17   3763392.51        5.27363  (13112324)              439170.17
3763442.51        4.19559  (12020424)
        439220.17   3763442.51        4.42515  (12020424)              439270.17
3763442.51        4.57007  (12020424)
        439320.17   3763442.51        4.72629  (12020424)              439370.17
3763442.51        4.83776  (12020424)
        439420.17   3763442.51        4.83232  (12020424)              439470.17
3763442.51        4.75395  (12020424)
        439520.17   3763442.51        4.41669  (12020424)              439570.17
3763442.51        4.32523  (13112324)
        439620.17   3763442.51        4.64877  (13112324)              439670.17
3763442.51        4.94609  (13112324)
        439720.17   3763442.51        5.12451  (13112324)              439770.17
3763442.51        5.14995  (13112324)
        439820.17   3763442.51        4.96565  (13112324)              439870.17
3763442.51        4.60891  (13112324)
        439203.20   3762911.16        5.18901  (12122024)              439253.20
3762911.16        5.55944  (12122024)
        439303.20   3762911.16        5.97305  (12122024)              439353.20
3762911.16        6.44347  (12122024)
        439403.20   3762911.16        6.96725  (12122024)              439453.20
3762911.16        7.56065  (12122024)
        439503.20   3762911.16        8.23215  (12122024)              439553.20
3762911.16        8.99524  (12122024)
        439203.20   3762961.16        5.02813  (12122024)              439253.20
3762961.16        5.35663  (12122024)
        439303.20   3762961.16        5.71906  (12122024)              439353.20
3762961.16        6.12471  (12122024)
        439403.20   3762961.16        6.56860  (12122024)              439453.20
3762961.16        7.04395  (12122024)
        439503.20   3762961.16        7.56519  (12122024)              439553.20
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3762961.16 8.10986 (12122024)
  439203.20 3763011.16 4.77446 (12122024) 439253.20
3763011.16 5.05348 (12122024)
  439303.20 3763011.16 5.35342 (12122024) 439353.20
3763011.16 5.66941 (12122024)
  439403.20 3763011.16 6.01134 (12122024) 439453.20
3763011.16 6.45954 (12011324)
  439503.20 3763011.16 7.09977 (12011324) 439553.20
3763011.16 7.81721 (12011324)
  439203.20 3763061.16 4.45294 (12122024) 439253.20
3763061.16 4.70293 (12011324)
  439303.20 3763061.16 5.07353 (12011324) 439353.20
3763061.16 5.45962 (12011324)
  439403.20 3763061.16 5.89071 (12011324) 439453.20
3763061.16 6.36313 (12011324)
  439503.20 3763061.16 6.90831 (12011324) 439553.20
3763061.16 7.46967 (12011324)
  439196.01 3762392.48 4.34571 (14122624) 439246.01
3762392.48 4.84997 (14122624)
  439296.01 3762392.48 5.42738 (14122624) 439346.01
3762392.48 6.09247 (14122624)
  439396.01 3762392.48 6.85866 (14122624) 439446.01
3762392.48 7.73813 (14122624)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)

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        439196.01   3762742.48        5.02043  (12122024)               439246.01
3762742.48        5.44059  (12122024)
        439296.01   3762742.48        5.91202  (12122024)               439346.01
3762742.48        6.43815  (12122024)
        439396.01   3762742.48        7.03285  (12122024)               439446.01
3762742.48        7.71270  (12122024)
        439496.01   3762742.48        8.50735  (12122024)               439546.01
3762742.48        9.43189  (12122024)
        439196.01   3762792.48        5.13462  (12122024)               439246.01
3762792.48        5.54397  (12122024)
        439296.01   3762792.48        6.00630  (12122024)               439346.01
3762792.48        6.52525  (12122024)
        439396.01   3762792.48        7.11475  (12122024)               439446.01
3762792.48        7.79084  (12122024)
        439496.01   3762792.48        8.58858  (12122024)               439546.01
3762792.48        9.52549  (12122024)
        439196.01   3762842.48        5.19317  (12122024)               439246.01
3762842.48        5.59406  (12122024)
        439296.01   3762842.48        6.04098  (12122024)               439346.01
3762842.48        6.54564  (12122024)
        439396.01   3762842.48        7.12219  (12122024)               439446.01
3762842.48        7.78579  (12122024)
        439496.01   3762842.48        8.56149  (12122024)               439546.01
3762842.48        9.47623  (12122024)
        439573.31   3762470.54       10.45368  (16122724)               439623.31
3762470.54       12.38273  (16122724)
        439673.31   3762470.54       14.82738  (16122724)               439723.31
3762470.54       18.01242  (16122724)
        439773.31   3762470.54       22.42644  (16122724)               439823.31
3762470.54       28.91525  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        13:58:33

                                   PAGE  63
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONRUN  ***
                                   INCLUDING SOURCE(S):     L0013092    , L0013093
, L0013094    , L0013095    , L0013096    ,
                  L0013097    , L0013098    , L0013099    , L0013100    , L0013101
, L0013102    , L0013103    , L0013104    ,
                  L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                  L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	37.55192	(16122724)	439573.31	3762520.54	10.41076	(12122024)
439623.31	3762520.54	12.14438	(12122024)	439673.31	3762520.54	14.32593	(16122724)
439723.31	3762520.54	17.44306	(16122724)	439773.31	3762520.54	21.43451	(16122724)
439823.31	3762520.54	26.56363	(16122724)	439873.31	3762520.54	35.21136	(16122724)
439573.31	3762570.54	10.40852	(12122024)	439623.31	3762570.54	11.91134	(12122024)
439673.31	3762570.54	13.70126	(12122024)	439723.31	3762570.54	16.35908	(16122724)
439773.31	3762570.54	19.88112	(16122724)	439823.31	3762570.54	24.16614	(16122724)
439873.31	3762570.54	29.89444	(16122724)	439573.31	3762620.54	10.19028	(12122024)
439623.31	3762620.54	11.51154	(12122024)	439673.31	3762620.54	13.08470	(12122024)
439723.31	3762620.54	15.00788	(12122024)	439773.31	3762620.54	18.08884	(16122724)
439823.31	3762620.54	22.16966	(16122724)	439873.31	3762620.54	27.22299	(16122724)
439573.31	3762670.54	9.99743	(12122024)	439623.31	3762670.54	11.23409	(12122024)
439673.31	3762670.54	12.71712	(12122024)	439723.31	3762670.54	14.57007	(12122024)
439773.31	3762670.54	16.98438	(12122024)	439823.31	3762670.54	20.39780	(12020624)
439873.31	3762670.54	26.11576	(16122724)	439152.35	3761448.92	2.76583	(15031324)
439202.35	3761448.92	2.78002	(15031324)	439252.35	3761448.92	2.77239	(15031324)
439302.35	3761448.92	2.73006	(15031324)	439352.35	3761448.92	2.71295	(13010224)
439402.35	3761448.92	2.76189	(13010224)	439452.35	3761448.92	2.74045	(13010224)
439502.35	3761448.92	2.79047	(15010624)	439552.35	3761448.92	2.87972	(16121624)
439152.35	3761498.92	2.91846	(15031324)	439202.35	3761498.92	2.97821	(15031324)
439252.35	3761498.92	3.01256	(15031324)	439302.35	3761498.92	2.98726	(15031324)
439352.35	3761498.92	2.92655	(15031324)	439402.35			

3761498.92 2.92061 (13010224)
  439452.35 3761498.92 2.94565 (13010224) 439502.35
3761498.92 2.91782 (15010624)
  439552.35 3761498.92 3.03481 (16121624) 439152.35
3761548.92 3.05211 (15031324)
  439202.35 3761548.92 3.15013 (15031324) 439252.35
3761548.92 3.21952 (15031324)
  439302.35 3761548.92 3.23155 (15031324) 439352.35
3761548.92 3.19661 (15031324)
  439402.35 3761548.92 3.12853 (15031324) 439452.35
3761548.92 3.14221 (13010224)
  439502.35 3761548.92 3.14750 (13010224) 439552.35
3761548.92 3.19787 (15010624)
  439152.35 3761598.92 3.16020 (15031324) 439202.35
3761598.92 3.29699 (15031324)
  439252.35 3761598.92 3.41078 (15031324) 439302.35
3761598.92 3.47863 (15031324)
  439352.35 3761598.92 3.48496 (15031324) 439402.35
3761598.92 3.45583 (15031324)
  439452.35 3761598.92 3.37152 (15031324) 439502.35
3761598.92 3.39374 (13010224)
  439552.35 3761598.92 3.37296 (13010224) 439152.35
3761648.92 3.23442 (15031324)
  439202.35 3761648.92 3.42184 (15031324) 439252.35
3761648.92 3.58894 (15031324)
  439302.35 3761648.92 3.71578 (15031324) 439352.35
3761648.92 3.78446 (15031324)
  439402.35 3761648.92 3.80505 (15031324) 439452.35
3761648.92 3.75713 (15031324)
  439502.35 3761648.92 3.64817 (15031324) 439552.35
3761648.92 3.68972 (13010224)
  439152.35 3761698.92 3.27629 (15031324) 439202.35
3761698.92 3.50775 (15031324)
  439252.35 3761698.92 3.72005 (15031324) 439302.35
3761698.92 3.91290 (15031324)
  439352.35 3761698.92 4.06334 (15031324) 439402.35
3761698.92 4.15924 (15031324)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,

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                 L0013105    , L0013106    , L0013107    , L0013108    , L0013109
, L0013110    , L0013111    , L0013112    ,
                 L0013113    , L0013114    , L0013115    , L0013116    , L0013117
, L0013118    , L0013119    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439452.35   3761698.92        4.15300  (15031324)               439502.35
3761698.92        4.10117  (15031324)
        439552.35   3761698.92        3.99405  (13010224)               439152.35
3761748.92        3.51192  (16122724)
        439202.35   3761748.92        3.55797  (15031324)               439252.35
3761748.92        3.81716  (15031324)
        439302.35   3761748.92        4.07784  (15031324)               439352.35
3761748.92        4.29779  (15031324)
        439402.35   3761748.92        4.46755  (15031324)               439452.35
3761748.92        4.55347  (15031324)
        439502.35   3761748.92        4.54767  (15031324)               439552.35
3761748.92        4.47506  (15031324)
        439152.35   3761798.92        3.76797  (16122724)               439202.35
3761798.92        3.84738  (16122724)
        439252.35   3761798.92        3.88718  (15031324)               439302.35
3761798.92        4.21533  (15031324)
        439352.35   3761798.92        4.49748  (15031324)               439402.35
3761798.92        4.75066  (15031324)
        439452.35   3761798.92        4.95643  (15031324)               439502.35
3761798.92        5.03190  (15031324)
        439552.35   3761798.92        5.05021  (15031324)               439152.35
3761848.92        3.98714  (16122724)
        439202.35   3761848.92        4.13329  (16122724)               439252.35
3761848.92        4.22714  (16122724)
        439302.35   3761848.92        4.27891  (16122724)               439352.35
3761848.92        4.63404  (15031324)
        439402.35   3761848.92        5.00715  (15031324)               439452.35
3761848.92        5.31123  (15031324)
        439502.35   3761848.92        5.50367  (15031324)               439552.35
3761848.92        5.64735  (15031324)
        439152.35   3761898.92        4.16672  (16122724)               439202.35
3761898.92        4.37569  (16122724)
        439252.35   3761898.92        4.54786  (16122724)               439302.35
3761898.92        4.70445  (16122724)
        439352.35   3761898.92        4.77939  (16122724)               439402.35
3761898.92        5.18897  (15031324)
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        439452.35   3761898.92        5.63822  (15031324)                439502.35
3761898.92        6.00733  (15031324)
        439552.35   3761898.92        6.28230  (15031324)                439152.35
3761948.92        4.29772  (16122724)
        439202.35   3761948.92        4.56494  (16122724)                439252.35
3761948.92        4.81183  (16122724)
        439302.35   3761948.92        5.06936  (16122724)                439352.35
3761948.92        5.26498  (16122724)
        439402.35   3761948.92        5.37883  (16122724)                439452.35
3761948.92        5.87382  (15031324)
        439502.35   3761948.92        6.41161  (15031324)                439552.35
3761948.92        6.87985  (15031324)
        439152.35   3761998.92        4.46428  (14122624)                439202.35
3761998.92        4.70036  (16122724)
        439252.35   3761998.92        5.01461  (16122724)                439302.35
3761998.92        5.36596  (16122724)
        439352.35   3761998.92        5.68740  (16122724)                439402.35
3761998.92        5.93182  (16122724)
        439452.35   3761998.92        6.12932  (16122724)                439502.35
3761998.92        6.67353  (15031324)
        439552.35   3761998.92        7.34641  (15031324)                439152.35
3762048.92        4.67317  (14122624)
        439202.35   3762048.92        4.94703  (14122624)                439252.35
3762048.92        5.21529  (14122624)
        439302.35   3762048.92        5.60774  (16122724)                439352.35
3762048.92        6.02097  (16122724)
        439402.35   3762048.92        6.41214  (16122724)                439452.35
3762048.92        6.78156  (16122724)
        439502.35   3762048.92        7.07539  (16122724)                439552.35
3762048.92        7.71080  (15031324)
        439616.61   3761420.65        2.76375  (16121624)                439666.61
3761420.65        2.94469m (13010324)
        439716.61   3761420.65        3.13259m (13010324)                439766.61
3761420.65        3.25530m (13010324)
        439816.61   3761420.65        3.29852m (13010324)                439866.61
3761420.65        3.27390m (13010324)
        439616.61   3761470.65        2.97485  (16121624)                439666.61
3761470.65        3.06277m (13010324)
        439716.61   3761470.65        3.29051m (13010324)                439766.61
3761470.65        3.45043m (13010324)
        439816.61   3761470.65        3.52370m (13010324)                439866.61
3761470.65        3.52118m (13010324)
        439616.61   3761520.65        3.19075  (16121624)                439666.61
3761520.65        3.18439m (13010324)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       13:58:33

                                  PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***

INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 , L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 , L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 , L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	3.45805m	(13010324)	439766.61	3761520.65	3.66638m	(13010324)
439816.61	3761520.65	3.77795m	(13010324)	439866.61	3761520.65	3.79838m	(13010324)
439616.61	3761570.65	3.41540	(16121624)	439666.61	3761570.65	3.42919	(13121424)
439716.61	3761570.65	3.63670m	(13010324)	439766.61	3761570.65	3.89851m	(13010324)
439816.61	3761570.65	4.05951m	(13010324)	439866.61	3761570.65	4.10609m	(13010324)
440451.14	3762893.83	22.93889	(12120224)	440501.14	3762893.83	20.68432	(12120224)
440551.14	3762893.83	18.49379	(12120224)	440601.14	3762893.83	16.44574	(12120224)
440651.14	3762893.83	14.46881	(12120224)	440701.14	3762893.83	12.75753	(14032624)
440751.14	3762893.83	11.13651	(14032624)	440801.14	3762893.83	10.17519	(13040124)
440851.14	3762893.83	9.52801m	(12050224)	440451.14	3762943.83	19.42005	(12120224)
440501.14	3762943.83	18.02764	(12120224)	440551.14	3762943.83	16.64423	(12120224)
440601.14	3762943.83	15.25647	(12120224)	440651.14	3762943.83	13.84370	(12120224)
440701.14	3762943.83	12.73097	(14032624)	440751.14	3762943.83	11.46445	(14032624)
440801.14	3762943.83	10.33456	(14032624)	440851.14	3762943.83	9.22375	(14032624)
441116.67	3763135.31	6.38388	(14032624)	441166.67			

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3763135.31        5.86977  (14032624)
        441116.67   3763185.31        6.39709  (14032624)                441166.67
3763185.31        5.95011  (14032624)
        441116.67   3763235.31        6.28103  (14032624)                441166.67
3763235.31        5.88777  (14032624)
        441116.67   3763285.31        6.09226  (14032624)                441166.67
3763285.31        5.82457  (14032624)
        441116.67   3763335.31        5.70696  (12120224)                441166.67
3763335.31        5.54793  (14032624)
        441116.67   3763385.31        5.39531  (12120224)                441166.67
3763385.31        5.26941  (12120224)
        441116.67   3763435.31        5.02067  (12120224)                441166.67
3763435.31        4.96264  (12120224)
        440433.43   3762815.13       29.58043  (12120224)                440483.43
3762815.13       25.54871  (12120224)
        440533.43   3762815.13       21.51985  (12120224)                440583.43
3762815.13       17.90877m (12050224)
        440633.43   3762815.13       16.47383m (12050224)                440683.43
3762815.13       15.18157m (12050224)
        440733.43   3762815.13       14.01813m (12050224)                440783.43
3762815.13       12.97521m (12050224)
        440833.43   3762815.13       12.03510m (12050224)                440883.43
3762815.13       11.19056m (12050224)
        440933.43   3762815.13       10.42550m (12050224)                440983.43
3762815.13        9.73021m (12050224)
        440433.43   3762865.13       25.92716  (12120224)                440483.43
3762865.13       22.98333  (12120224)
        440533.43   3762865.13       20.22807  (12120224)                440583.43
3762865.13       17.65849  (12120224)
        440633.43   3762865.13       15.27181  (12120224)                440683.43
3762865.13       13.06413  (12120224)
        440733.43   3762865.13       11.98485m (12050224)                440783.43
3762865.13       11.28790m (12050224)
        440833.43   3762865.13       10.63840m (12050224)                440883.43
3762865.13       10.02934m (12050224)
        440933.43   3762865.13        9.46018m (12050224)                440983.43
3762865.13        8.93374m (12050224)
        441118.27   3762686.02        7.71125m (12050224)                441168.27
3762686.02        7.20975m (12050224)
        441118.27   3762736.02        8.18991m (12050224)                441168.27
3762736.02        7.64970m (12050224)
        441118.27   3762786.02        8.28597m (12050224)                441168.27
3762786.02        7.76896m (12050224)
        441118.27   3762836.02        7.99994m (12050224)                441168.27
3762836.02        7.54808m (12050224)
        440411.67   3762093.41        8.45887  (12010924)                440461.67
3762093.41        7.72677  (12010924)
        440511.67   3762093.41        7.19947  (14110424)                440561.67
3762093.41        6.74608  (14110424)
        440611.67   3762093.41        6.17382  (14110424)                440411.67
3762143.41        9.34904  (12010924)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONRUN ***
INCLUDING SOURCE(S): L0013092 , L0013093 , L0013094 , L0013095 , L0013096 ,
L0013097 , L0013098 , L0013099 , L0013100 , L0013101 , L0013102 , L0013103 , L0013104 ,
L0013105 , L0013106 , L0013107 , L0013108 , L0013109 , L0013110 , L0013111 , L0013112 ,
L0013113 , L0013114 , L0013115 , L0013116 , L0013117 , L0013118 , L0013119 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	8.49102	(14110424)	440511.67	3762143.41	8.00292	(14110424)
440561.67	3762143.41	7.36423	(14110424)	440611.67	3762143.41	6.62177	(14110424)
440406.61	3762008.86	7.18988	(12010924)	440456.61	3762008.86	6.71755	(12010924)
440506.61	3762008.86	6.17114	(12010924)	440556.61	3762008.86	5.80900	(14110424)
440606.61	3762008.86	5.47087	(14110424)	440656.61	3762008.86	5.05062	(14110424)
440706.61	3762008.86	4.57826	(14110424)	440756.61	3762008.86	4.10681	(14110424)
440806.61	3762008.86	3.66870	(14110424)	440856.61	3762008.86	3.31719	(14110424)
440906.61	3762008.86	3.17964	(15013124)	440956.61	3762008.86	3.11025b	(14072524)
441006.61	3762008.86	3.13741b	(14072524)	441056.61	3762008.86	3.15288b	(14072524)
441106.61	3762008.86	3.16820b	(14072524)	441156.61	3762008.86	3.17555b	(14072524)
440406.61	3762058.86	7.94586	(12010924)	440456.61	3762058.86	7.34300	(12010924)

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        440506.61   3762058.86        6.72703  (14110424)                440556.61
3762058.86        6.37297  (14110424)
        440606.61   3762058.86        5.91731  (14110424)                440656.61
3762058.86        5.38101  (14110424)
        440706.61   3762058.86        4.82190  (14110424)                440756.61
3762058.86        4.29645  (14110424)
        440806.61   3762058.86        3.83867  (14110424)                440856.61
3762058.86        3.52584  (15013124)
        440906.61   3762058.86        3.52381b (14072524)                440956.61
3762058.86        3.54148b (14072524)
        441006.61   3762058.86        3.55335b (14072524)                441056.61
3762058.86        3.55812b (14072524)
        441106.61   3762058.86        3.55170b (14072524)                441156.61
3762058.86        3.53200b (14072524)
        440191.38   3762138.44       12.79285  (12010924)                440241.38
3762138.44       11.68223  (12010924)
        440291.38   3762138.44       10.90968  (12010924)                440341.38
3762138.44       10.22588  (12010924)
        440191.38   3762188.44       14.90418  (12010924)                440241.38
3762188.44       13.27044  (12010924)
        440291.38   3762188.44       12.40403  (12010924)                440341.38
3762188.44       11.56464  (12010924)
        440191.38   3762238.44       17.26030  (12010924)                440241.38
3762238.44       15.19218  (12010924)
        440291.38   3762238.44       14.09610  (12010924)                440341.38
3762238.44       12.95268  (12010924)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        13:58:33

                                   PAGE  67
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
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      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        440407.86   3761497.84        3.98984  (12010924)               439943.36
3761716.33        5.85922m (13010324)
        439170.17   3763092.51        4.16718  (12011324)               439220.17
3763092.51        4.46657  (12011324)
        439270.17   3763092.51        4.72490  (12011324)               439320.17
3763092.51        5.01317  (12011324)
        439370.17   3763092.51        5.38140  (12020424)               439420.17
3763092.51        5.77464  (12020424)
        439470.17   3763092.51        6.16895  (12020424)               439520.17
3763092.51        6.64093  (12020424)
        439570.17   3763092.51        7.17744  (12020424)               439620.17
3763092.51        7.73570  (12020424)
        439670.17   3763092.51        8.26837  (12020424)               439720.17
3763092.51        8.67667  (12020424)
        439770.17   3763092.51        8.84337  (12020424)               439820.17
3763092.51        8.83966  (13112324)
        439870.17   3763092.51        9.45162  (13112324)               439170.17
3763142.51        4.13046  (12011324)
        439220.17   3763142.51        4.34608  (12011324)               439270.17
3763142.51        4.62802  (12020424)
        439320.17   3763142.51        4.99149  (12020424)               439370.17
3763142.51        5.33215  (12020424)
        439420.17   3763142.51        5.67446  (12020424)               439470.17
3763142.51        6.03877  (12020424)
        439520.17   3763142.51        6.42856  (12020424)               439570.17
3763142.51        6.84774  (12020424)
        439620.17   3763142.51        7.23444  (12020424)               439670.17
3763142.51        7.49022  (12020424)
        439720.17   3763142.51        7.57096  (12020424)               439770.17
3763142.51        7.45551  (13112324)
        439820.17   3763142.51        8.05233  (13112324)               439870.17
3763142.51        8.38623  (13112324)
        439170.17   3763192.51        4.00664  (12020424)               439220.17
3763192.51        4.33661  (12020424)
        439270.17   3763192.51        4.63999  (12020424)               439320.17
3763192.51        4.96159  (12020424)
        439370.17   3763192.51        5.23079  (12020424)               439420.17
3763192.51        5.52524  (12020424)
        439470.17   3763192.51        5.82468  (12020424)               439520.17
3763192.51        6.13212  (12020424)
        439570.17   3763192.51        6.39960  (12020424)               439620.17
3763192.51        6.59057  (12020424)
        439670.17   3763192.51        6.60332  (12020424)               439720.17
3763192.51        6.44153  (12020424)
        439770.17   3763192.51        7.01050  (13112324)               439820.17
3763192.51        7.39844  (13112324)
        439870.17   3763192.51        7.49523  (13112324)               439170.17
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3763242.51        4.09622  (12020424)
        439220.17   3763242.51        4.37449  (12020424)                439270.17
3763242.51        4.61409  (12020424)
        439320.17   3763242.51        4.87560  (12020424)                439370.17
3763242.51        5.09591  (12020424)
        439420.17   3763242.51        5.32777  (12020424)                439470.17
3763242.51        5.55963  (12020424)
        439520.17   3763242.51        5.73318  (12020424)                439570.17
3763242.51        5.84294  (12020424)
        439620.17   3763242.51        5.85067  (12020424)                439670.17
3763242.51        5.70509  (12020424)
        439720.17   3763242.51        6.09050  (13112324)                439770.17
3763242.51        6.55638  (13112324)
        439820.17   3763242.51        6.75046  (13112324)                439870.17
3763242.51        6.81691  (13112324)
        439170.17   3763292.51        4.12484  (12020424)                439220.17
3763292.51        4.40480  (12020424)
        439270.17   3763292.51        4.60046  (12020424)                439320.17
3763292.51        4.76741  (12020424)
        439370.17   3763292.51        4.91579  (12020424)                439420.17
3763292.51        5.06236  (12020424)
        439470.17   3763292.51        5.22729  (12020424)                439520.17
3763292.51        5.29473  (12020424)
        439570.17   3763292.51        5.21236  (12020424)                439620.17
3763292.51        5.07996  (12020424)
        439670.17   3763292.51        5.30590  (13112324)                439720.17
3763292.51        5.78626  (13112324)
        439770.17   3763292.51        6.21431  (13112324)                439820.17
3763292.51        6.33103  (13112324)
        439870.17   3763292.51        6.15866  (13112324)                439170.17
3763342.51        4.14244  (12020424)
        439220.17   3763342.51        4.39147  (12020424)                439270.17
3763342.51        4.47669  (12020424)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        13:58:33

                                    PAGE  68
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                    INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	4.59025	(12020424)	439370.17	3763342.51	4.64863	(12020424)
439420.17	3763342.51	4.76934	(12020424)	439470.17	3763342.51	4.82795	(12020424)
439520.17	3763342.51	4.78400	(12020424)	439570.17	3763342.51	4.58618	(12020424)
439620.17	3763342.51	4.69314	(13112324)	439670.17	3763342.51	5.10408	(13112324)
439720.17	3763342.51	5.41840	(13112324)	439770.17	3763342.51	5.76411	(13112324)
439820.17	3763342.51	5.71606	(13112324)	439870.17	3763342.51	5.45768	(13112324)
439170.17	3763392.51	4.12668	(12020424)	439220.17	3763392.51	4.35588	(12020424)
439270.17	3763392.51	4.37527	(12020424)	439320.17	3763392.51	4.46980	(12020424)
439370.17	3763392.51	4.50443	(12020424)	439420.17	3763392.51	4.52877	(12020424)
439470.17	3763392.51	4.63342	(12020424)	439520.17	3763392.51	4.24812	(12020424)
439570.17	3763392.51	4.22879	(13112324)	439620.17	3763392.51	4.55500	(13112324)
439670.17	3763392.51	4.96009	(13112324)	439720.17	3763392.51	5.16629	(13112324)
439770.17	3763392.51	5.27662	(13112324)	439820.17	3763392.51	5.14146	(13112324)
439870.17	3763392.51	4.82626	(13112324)	439170.17	3763442.51	4.12895	(12020424)
439220.17	3763442.51	4.26783	(12020424)	439270.17	3763442.51	4.23146	(12020424)
439320.17	3763442.51	4.29694	(12020424)	439370.17	3763442.51	4.34526	(12020424)
439420.17	3763442.51	4.25365	(12020424)	439470.17	3763442.51	4.17397	(12020424)
439520.17	3763442.51	3.86603	(13112324)	439570.17	3763442.51	4.18533	(13112324)
439620.17	3763442.51	4.46666	(13112324)	439670.17	3763442.51	4.72918	(13112324)
439720.17	3763442.51	4.84602	(13112324)	439770.17	3763442.51	4.81244	(13112324)

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        439820.17   3763442.51        4.61088  (13112324)               439870.17
3763442.51        4.27006m (14021824)
        439203.20   3762911.16        4.87279  (12122024)               439253.20
3762911.16        5.20162  (12122024)
        439303.20   3762911.16        5.57681  (12122024)               439353.20
3762911.16        6.00782  (12122024)
        439403.20   3762911.16        6.49464  (12122024)               439453.20
3762911.16        7.05657  (12122024)
        439503.20   3762911.16        7.69393  (12122024)               439553.20
3762911.16        8.41220  (12122024)
        439203.20   3762961.16        4.70276  (12122024)               439253.20
3762961.16        5.00143  (12122024)
        439303.20   3762961.16        5.33407  (12122024)               439353.20
3762961.16        5.70455  (12122024)
        439403.20   3762961.16        6.11178  (12122024)               439453.20
3762961.16        6.55342  (12122024)
        439503.20   3762961.16        7.02069  (12122024)               439553.20
3762961.16        7.54486  (12011324)
        439203.20   3763011.16        4.49969  (12122024)               439253.20
3763011.16        4.76385  (12122024)
        439303.20   3763011.16        5.03087  (12122024)               439353.20
3763011.16        5.35826  (12011324)
        439403.20   3763011.16        5.62818  (12011324)               439453.20
3763011.16        6.16426  (12011324)
        439503.20   3763011.16        6.68525  (12011324)               439553.20
3763011.16        7.41614  (12011324)
        439203.20   3763061.16        4.32999  (12011324)               439253.20
3763061.16        4.69851  (12011324)
        439303.20   3763061.16        4.99716  (12011324)               439353.20
3763061.16        5.32780  (12011324)
        439403.20   3763061.16        5.69226  (12011324)               439453.20
3763061.16        6.09203  (12011324)
        439503.20   3763061.16        6.52056  (12011324)               439553.20
3763061.16        7.08542  (12020424)
        439196.01   3762392.48        4.02231  (14122624)               439246.01
3762392.48        4.47193  (14122624)
        439296.01   3762392.48        4.98083  (14122624)               439346.01
3762392.48        5.55787  (14122624)
        439396.01   3762392.48        6.20853  (14122624)               439446.01
3762392.48        6.95501  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        13:58:33

                                   PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P1ONIDLE ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
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, L0013409    , L0013410    , L0013411    ,
                L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439496.01   3762392.48        7.91390  (16122724)               439546.01
3762392.48        9.05190  (16122724)
        439196.01   3762442.48        4.00662  (12020624)               439246.01
3762442.48        4.36041  (12020624)
        439296.01   3762442.48        4.77149  (12020624)               439346.01
3762442.48        5.25220  (16122724)
        439396.01   3762442.48        5.92638  (16122724)               439446.01
3762442.48        6.73698  (16122724)
        439496.01   3762442.48        7.70881  (16122724)               439546.01
3762442.48        8.87693  (16122724)
        439196.01   3762492.48        4.03951  (12122024)               439246.01
3762492.48        4.43751  (12122024)
        439296.01   3762492.48        4.89843  (12122024)               439346.01
3762492.48        5.43116  (12122024)
        439396.01   3762492.48        6.04764  (12122024)               439446.01
3762492.48        6.76875  (12122024)
        439496.01   3762492.48        7.62549  (12122024)               439546.01
3762492.48        8.64145  (12122024)
        439196.01   3762542.48        4.27532  (12122024)               439246.01
3762542.48        4.68467  (12122024)
        439296.01   3762542.48        5.15587  (12122024)               439346.01
3762542.48        5.69561  (12122024)
        439396.01   3762542.48        6.32221  (12122024)               439446.01
3762542.48        7.05046  (12122024)
        439496.01   3762542.48        7.91259  (12122024)               439546.01
3762542.48        8.93007  (12122024)
        439196.01   3762592.48        4.46828  (12122024)               439246.01
3762592.48        4.87995  (12122024)
        439296.01   3762592.48        5.34460  (12122024)               439346.01
3762592.48        5.87248  (12122024)
        439396.01   3762592.48        6.47865  (12122024)               439446.01
3762592.48        7.18170  (12122024)
        439496.01   3762592.48        8.00750  (12122024)               439546.01
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3762592.48        8.97071  (12122024)
        439196.01   3762642.48        4.60747  (12122024)                439246.01
3762642.48        5.00910  (12122024)
        439296.01   3762642.48        5.45670  (12122024)                439346.01
3762642.48        5.96190  (12122024)
        439396.01   3762642.48        6.54331  (12122024)                439446.01
3762642.48        7.21091  (12122024)
        439496.01   3762642.48        7.98695  (12122024)                439546.01
3762642.48        8.87922  (12122024)
        439196.01   3762692.48        4.71478  (12122024)                439246.01
3762692.48        5.10669  (12122024)
        439296.01   3762692.48        5.54683  (12122024)                439346.01
3762692.48        6.04064  (12122024)
        439396.01   3762692.48        6.59448  (12122024)                439446.01
3762692.48        7.23095  (12122024)
        439496.01   3762692.48        7.96393  (12122024)                439546.01
3762692.48        8.80045  (12122024)
        439196.01   3762742.48        4.81287  (12122024)                439246.01
3762742.48        5.19782  (12122024)
        439296.01   3762742.48        5.62951  (12122024)                439346.01
3762742.48        6.11060  (12122024)
        439396.01   3762742.48        6.65167  (12122024)                439446.01
3762742.48        7.26590  (12122024)
        439496.01   3762742.48        7.98088  (12122024)                439546.01
3762742.48        8.81898  (12122024)
        439196.01   3762792.48        4.89267  (12122024)                439246.01
3762792.48        5.26751  (12122024)
        439296.01   3762792.48        5.68801  (12122024)                439346.01
3762792.48        6.15708  (12122024)
        439396.01   3762792.48        6.68748  (12122024)                439446.01
3762792.48        7.29731  (12122024)
        439496.01   3762792.48        8.02926  (12122024)                439546.01
3762792.48        8.91946  (12122024)
        439196.01   3762842.48        4.92457  (12122024)                439246.01
3762842.48        5.28410  (12122024)
        439296.01   3762842.48        5.68551  (12122024)                439346.01
3762842.48        6.13843  (12122024)
        439396.01   3762842.48        6.66031  (12122024)                439446.01
3762842.48        7.27226  (12122024)
        439496.01   3762842.48        8.01051  (12122024)                439546.01
3762842.48        8.89335  (12122024)
        439573.31   3762470.54        9.45142  (16122724)                439623.31
3762470.54       11.04211  (16122724)
        439673.31   3762470.54       12.94113  (16122724)                439723.31
3762470.54       15.18268  (16122724)
        439773.31   3762470.54       17.83888  (16122724)                439823.31
3762470.54       21.02987  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***         13:58:33
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	26.14409	(12122024)	439573.31	3762520.54	9.46980	(12122024)
439623.31	3762520.54	10.84459	(12122024)	439673.31	3762520.54	12.68725	(16122724)
439723.31	3762520.54	15.09823	(16122724)	439773.31	3762520.54	17.99893	(16122724)
439823.31	3762520.54	21.50910	(16122724)	439873.31	3762520.54	26.69966	(12122024)
439573.31	3762570.54	9.59713	(12122024)	439623.31	3762570.54	10.91198	(12122024)
439673.31	3762570.54	12.50199	(12122024)	439723.31	3762570.54	14.85881	(16122724)
439773.31	3762570.54	18.06194	(16122724)	439823.31	3762570.54	22.09563	(16122724)
439873.31	3762570.54	27.40021	(16122724)	439573.31	3762620.54	9.49150	(12122024)
439623.31	3762620.54	10.67657	(12122024)	439673.31	3762620.54	12.06511	(12122024)
439723.31	3762620.54	14.07827	(16122724)	439773.31	3762620.54	17.36160	(16122724)
439823.31	3762620.54	21.55381	(16122724)	439873.31	3762620.54	26.98890	(16122724)
439573.31	3762670.54	9.34899	(12122024)	439623.31	3762670.54	10.44980	(12122024)
439673.31	3762670.54	11.78056	(12122024)	439723.31	3762670.54	13.52471	(12122024)

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        439773.31   3762670.54       15.97821  (12122024)              439823.31
3762670.54       20.40514  (16122724)
        439873.31   3762670.54       27.17600  (16122724)              439152.35
3761448.92        2.76911  (15031324)
        439202.35   3761448.92        2.82916  (15031324)              439252.35
3761448.92        2.87404  (15031324)
        439302.35   3761448.92        2.88960  (15031324)              439352.35
3761448.92        2.87519  (15031324)
        439402.35   3761448.92        2.82785  (15031324)              439452.35
3761448.92        2.81566  (13010224)
        439502.35   3761448.92        2.81305  (13010224)              439552.35
3761448.92        2.91629  (15010624)
        439152.35   3761498.92        2.88006  (15031324)              439202.35
3761498.92        2.98444  (15031324)
        439252.35   3761498.92        3.07316  (15031324)              439302.35
3761498.92        3.11138  (15031324)
        439352.35   3761498.92        3.12062  (15031324)              439402.35
3761498.92        3.09540  (15031324)
        439452.35   3761498.92        3.03082  (15031324)              439502.35
3761498.92        3.02287  (13010224)
        439552.35   3761498.92        3.06603  (15010624)              439152.35
3761548.92        2.96940  (15031324)
        439202.35   3761548.92        3.10762  (15031324)              439252.35
3761548.92        3.22972  (15031324)
        439302.35   3761548.92        3.30749  (15031324)              439352.35
3761548.92        3.34934  (15031324)
        439402.35   3761548.92        3.36644  (15031324)              439452.35
3761548.92        3.33834  (15031324)
        439502.35   3761548.92        3.26419  (15031324)              439552.35
3761548.92        3.24608  (13010224)
        439152.35   3761598.92        3.03406  (15031324)              439202.35
3761598.92        3.20307  (15031324)
        439252.35   3761598.92        3.36360  (15031324)              439302.35
3761598.92        3.49471  (15031324)
        439352.35   3761598.92        3.58090  (15031324)              439402.35
3761598.92        3.64651  (15031324)
        439452.35   3761598.92        3.66769  (15031324)              439502.35
3761598.92        3.62543  (15031324)
        439552.35   3761598.92        3.53820  (15031324)              439152.35
3761648.92        3.07025  (15031324)
        439202.35   3761648.92        3.27760  (15031324)              439252.35
3761648.92        3.48062  (15031324)
        439302.35   3761648.92        3.66273  (15031324)              439352.35
3761648.92        3.80832  (15031324)
        439402.35   3761648.92        3.92765  (15031324)              439452.35
3761648.92        3.99879  (15031324)
        439502.35   3761648.92        4.02226  (15031324)              439552.35
3761648.92        3.97863  (15031324)
        439152.35   3761698.92        3.30008  (16122724)              439202.35
3761698.92        3.32014  (15031324)
        439252.35   3761698.92        3.55384  (15031324)              439302.35
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	4.31204	(15031324)	439502.35	3761698.92	4.41237	(15031324)
439552.35	3761698.92	4.44191	(15031324)	439152.35	3761748.92	3.52278	(16122724)
439202.35	3761748.92	3.59353	(16122724)	439252.35	3761748.92	3.62183	(16122724)
439302.35	3761748.92	3.88335	(15031324)	439352.35	3761748.92	4.15050	(15031324)
439402.35	3761748.92	4.39950	(15031324)	439452.35	3761748.92	4.60365	(15031324)
439502.35	3761748.92	4.75737	(15031324)	439552.35	3761748.92	4.88201	(15031324)
439152.35	3761798.92	3.72048	(16122724)	439202.35	3761798.92	3.84670	(16122724)
439252.35	3761798.92	3.93587	(16122724)	439302.35	3761798.92	4.00465	(16122724)
439352.35	3761798.92	4.26713	(15031324)	439402.35	3761798.92	4.57517	(15031324)
439452.35	3761798.92	4.87755	(15031324)	439502.35			

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3761798.92        5.10484  (15031324)
        439552.35   3761798.92        5.33278  (15031324)                439152.35
3761848.92        3.88818  (16122724)
        439202.35   3761848.92        4.06503  (16122724)                439252.35
3761848.92        4.21004  (16122724)
        439302.35   3761848.92        4.33841  (16122724)                439352.35
3761848.92        4.41497  (16122724)
        439402.35   3761848.92        4.72920  (15031324)                439452.35
3761848.92        5.09691  (15031324)
        439502.35   3761848.92        5.41321  (15031324)                439552.35
3761848.92        5.75308  (15031324)
        439152.35   3761898.92        4.02544  (16122724)                439202.35
3761898.92        4.24789  (16122724)
        439252.35   3761898.92        4.45150  (16122724)                439302.35
3761898.92        4.66219  (16122724)
        439352.35   3761898.92        4.82394  (16122724)                439402.35
3761898.92        4.94917  (16122724)
        439452.35   3761898.92        5.29487  (15031324)                439502.35
3761898.92        5.73851  (15031324)
        439552.35   3761898.92        6.16954  (15031324)                439152.35
3761948.92        4.12519  (16122724)
        439202.35   3761948.92        4.38836  (16122724)                439252.35
3761948.92        4.64554  (16122724)
        439302.35   3761948.92        4.93135  (16122724)                439352.35
3761948.92        5.18483  (16122724)
        439402.35   3761948.92        5.39665  (16122724)                439452.35
3761948.92        5.60447  (16122724)
        439502.35   3761948.92        5.97736  (15031324)                439552.35
3761948.92        6.53208  (15031324)
        439152.35   3761998.92        4.25081  (14122624)                439202.35
3761998.92        4.48751  (16122724)
        439252.35   3761998.92        4.79049  (16122724)                439302.35
3761998.92        5.14231  (16122724)
        439352.35   3761998.92        5.48815  (16122724)                439402.35
3761998.92        5.79325  (16122724)
        439452.35   3761998.92        6.09889  (16122724)                439502.35
3761998.92        6.36984  (16122724)
        439552.35   3761998.92        6.78412  (15031324)                439152.35
3762048.92        4.35586  (14122624)
        439202.35   3762048.92        4.63374  (14122624)                439252.35
3762048.92        4.92744  (16122724)
        439302.35   3762048.92        5.31073  (16122724)                439352.35
3762048.92        5.71362  (16122724)
        439402.35   3762048.92        6.12152  (16122724)                439452.35
3762048.92        6.54651  (16122724)
        439502.35   3762048.92        6.95691  (16122724)                439552.35
3762048.92        7.34228  (16122724)
        439616.61   3761420.65        2.91726  (16121624)                439666.61
3761420.65        2.96004  (13121424)
        439716.61   3761420.65        3.18563m (13010324)                439766.61
3761420.65        3.36967m (13010324)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	3.47419m	(13010324)	439766.61	3761520.65	3.76667m	(13010324)
439816.61	3761520.65	3.97144m	(13010324)	439866.61	3761520.65	4.08295m	(13010324)
439616.61	3761570.65	3.49533	(15010624)	439666.61	3761570.65	3.60504	(13121424)
439716.61	3761570.65	3.72252	(13121424)	439766.61	3761570.65	3.98120m	(13010324)
439816.61	3761570.65	4.25577m	(13010324)	439866.61	3761570.65	4.41686m	(13010324)
440451.14	3762893.83	26.59400	(12120224)	440501.14	3762893.83	22.69231	(12120224)

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        440551.14   3762893.83       19.13357  (12120224)               440601.14
3762893.83       16.44454  (12120224)
        440651.14   3762893.83       14.35574  (12120224)               440701.14
3762893.83       12.70834  (12120224)
        440751.14   3762893.83       11.20504  (12120224)               440801.14
3762893.83        9.97478  (12120224)
        440851.14   3762893.83        9.17178m (12050224)               440451.14
3762943.83       20.48645m (16031424)
        440501.14   3762943.83       18.89627  (12120224)               440551.14
3762943.83       17.20028  (12120224)
        440601.14   3762943.83       15.36990  (12120224)               440651.14
3762943.83       13.68626  (12120224)
        440701.14   3762943.83       12.24595  (12120224)               440751.14
3762943.83       10.98313  (12120224)
        440801.14   3762943.83        9.97297  (12120224)               440851.14
3762943.83        9.08853  (12120224)
        441116.67   3763135.31        6.09835  (14032624)               441166.67
3763135.31        5.69138  (14032624)
        441116.67   3763185.31        6.02804  (14032624)               441166.67
3763185.31        5.66568  (14032624)
        441116.67   3763235.31        5.75614  (14032624)               441166.67
3763235.31        5.53101  (14032624)
        441116.67   3763285.31        5.66248  (14032624)               441166.67
3763285.31        5.39913  (14032624)
        441116.67   3763335.31        5.42452  (12120224)               441166.67
3763335.31        5.20040  (12120224)
        441116.67   3763385.31        5.10499  (12120224)               441166.67
3763385.31        4.99876  (12120224)
        441116.67   3763435.31        4.73083  (12120224)               441166.67
3763435.31        4.68844  (12120224)
        440433.43   3762815.13       35.45622  (12120224)               440483.43
3762815.13       27.89126m (12050224)
        440533.43   3762815.13       23.10266m (12050224)               440583.43
3762815.13       19.54151m (12050224)
        440633.43   3762815.13       16.94776m (12050224)               440683.43
3762815.13       14.96157m (12050224)
        440733.43   3762815.13       13.38555m (12050224)               440783.43
3762815.13       12.14684m (12050224)
        440833.43   3762815.13       11.11059m (12050224)               440883.43
3762815.13       10.25613m (12050224)
        440933.43   3762815.13        9.49260m (12050224)               440983.43
3762815.13        8.84242m (12050224)
        440433.43   3762865.13       32.46072  (12120224)               440483.43
3762865.13       25.73040  (12120224)
        440533.43   3762865.13       20.81297  (12120224)               440583.43
3762865.13       17.40259  (12120224)
        440633.43   3762865.13       14.96851  (12120224)               440683.43
3762865.13       13.09227  (12120224)
        440733.43   3762865.13       11.90531m (12050224)               440783.43
3762865.13       10.97836m (12050224)
        440833.43   3762865.13       10.18447m (12050224)               440883.43
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1ONIDLE ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	9.65239	(14110424)	440511.67	3762143.41	8.80349	(14110424)
440561.67	3762143.41	7.91803	(14110424)	440611.67	3762143.41	7.06629	(14110424)
440406.61	3762008.86	7.92910	(12010924)	440456.61			

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3762008.86        7.25152  (12010924)
        440506.61   3762008.86        6.77999  (14110424)                440556.61
3762008.86        6.32645  (14110424)
        440606.61   3762008.86        5.84990  (14110424)                440656.61
3762008.86        5.35900  (14110424)
        440706.61   3762008.86        4.87568  (14110424)                440756.61
3762008.86        4.41864  (14110424)
        440806.61   3762008.86        3.98691  (14110424)                440856.61
3762008.86        3.70845b (14072524)
        440906.61   3762008.86        3.68246b (14072524)                440956.61
3762008.86        3.63774b (14072524)
        441006.61   3762008.86        3.58956b (14072524)                441056.61
3762008.86        3.52852b (14072524)
        441106.61   3762008.86        3.46834b (14072524)                441156.61
3762008.86        3.40255b (14072524)
        440406.61   3762058.86        8.75711  (12010924)                440456.61
3762058.86        8.06135  (14110424)
        440506.61   3762058.86        7.51395  (14110424)                440556.61
3762058.86        6.94160  (14110424)
        440606.61   3762058.86        6.34141  (14110424)                440656.61
3762058.86        5.74646  (14110424)
        440706.61   3762058.86        5.18351  (14110424)                440756.61
3762058.86        4.66261  (14110424)
        440806.61   3762058.86        4.24576b (14072524)                440856.61
3762058.86        4.16853b (14072524)
        440906.61   3762058.86        4.09742b (14072524)                440956.61
3762058.86        4.01853b (14072524)
        441006.61   3762058.86        3.93583b (14072524)                441056.61
3762058.86        3.84965b (14072524)
        441106.61   3762058.86        3.75779b (14072524)                441156.61
3762058.86        3.66021b (14072524)
        440191.38   3762138.44       19.23847  (12010924)                440241.38
3762138.44       15.73363  (12010924)
        440291.38   3762138.44       13.44973  (14110424)                440341.38
3762138.44       11.81548  (14110424)
        440191.38   3762188.44       23.96410  (14110424)                440241.38
3762188.44       18.53843  (14110424)
        440291.38   3762188.44       15.41402  (14110424)                440341.38
3762188.44       13.33748  (14110424)
        440191.38   3762238.44       27.11014c (13112024)                440241.38
3762238.44       20.25434  (14110424)
        440291.38   3762238.44       16.68644  (14110424)                440341.38
3762238.44       14.60721  (12010924)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       13:58:33

                                PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	0.08847	(12010924)	439943.36	3761716.33	0.12171	(12122424)
439170.17	3763092.51	0.06370	(16010424)	439220.17	3763092.51	0.06851	(16010424)
439270.17	3763092.51	0.07455	(15113024)	439320.17	3763092.51	0.08136	(15113024)
439370.17	3763092.51	0.08840	(15113024)	439420.17	3763092.51	0.09549	(15113024)
439470.17	3763092.51	0.10222	(15113024)	439520.17	3763092.51	0.10793	(15113024)
439570.17	3763092.51	0.11189	(15113024)	439620.17	3763092.51	0.11295	(15113024)
439670.17	3763092.51	0.10996	(15113024)	439720.17	3763092.51	0.10241	(15113024)
439770.17	3763092.51	0.12290c	(14041424)	439820.17	3763092.51	0.16169c	(14041424)
439870.17	3763092.51	0.19753c	(14041424)	439170.17	3763142.51	0.06159	(15113024)
439220.17	3763142.51	0.06662	(15113024)	439270.17	3763142.51	0.07183	(15113024)
439320.17	3763142.51	0.07680	(15113024)	439370.17	3763142.51	0.08152	(15113024)
439420.17	3763142.51	0.08567	(15113024)	439470.17	3763142.51	0.08859	(15113024)
439520.17	3763142.51	0.08989	(15113024)	439570.17	3763142.51	0.08915	(15113024)
439620.17	3763142.51	0.08552	(15113024)	439670.17	3763142.51	0.07846	(15113024)
439720.17	3763142.51	0.09209c	(14041424)	439770.17	3763142.51	0.12110c	(14041424)
439820.17	3763142.51	0.15066c	(14041424)	439870.17	3763142.51	0.17400c	(14041424)
439170.17	3763192.51	0.05946	(15113024)	439220.17	3763192.51	0.06324	(15113024)
439270.17	3763192.51	0.06683	(15113024)	439320.17	3763192.51	0.06978	(15113024)

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        439370.17   3763192.51        0.07212  (15113024)              439420.17
3763192.51        0.07350  (15113024)
        439470.17   3763192.51        0.07330  (15113024)              439520.17
3763192.51        0.07142  (15113024)
        439570.17   3763192.51        0.06757  (15113024)              439620.17
3763192.51        0.06162  (15113024)
        439670.17   3763192.51        0.07060c (14041424)              439720.17
3763192.51        0.09252c (14041424)
        439770.17   3763192.51        0.11627c (14041424)              439820.17
3763192.51        0.13794c (14041424)
        439870.17   3763192.51        0.15233c (14041424)              439170.17
3763242.51        0.05566  (15113024)
        439220.17   3763242.51        0.05804  (15113024)              439270.17
3763242.51        0.05995  (15113024)
        439320.17   3763242.51        0.06109  (15113024)              439370.17
3763242.51        0.06133  (15113024)
        439420.17   3763242.51        0.06041  (15113024)              439470.17
3763242.51        0.05802  (15113024)
        439520.17   3763242.51        0.05425  (15113024)              439570.17
3763242.51        0.04905  (15113024)
        439620.17   3763242.51        0.05522c (14041424)              439670.17
3763242.51        0.07237c (14041424)
        439720.17   3763242.51        0.09129c (14041424)              439770.17
3763242.51        0.10999c (14041424)
        439820.17   3763242.51        0.12498c (14041424)              439870.17
3763242.51        0.13282c (14041424)
        439170.17   3763292.51        0.05049  (15113024)              439220.17
3763292.51        0.05140  (15113024)
        439270.17   3763292.51        0.05178  (15113024)              439320.17
3763292.51        0.05140  (15113024)
        439370.17   3763292.51        0.05015  (15113024)              439420.17
3763292.51        0.04763  (15113024)
        439470.17   3763292.51        0.04405  (15113024)              439520.17
3763292.51        0.03953  (14120824)
        439570.17   3763292.51        0.04353c (14041424)              439620.17
3763292.51        0.05715c (14041424)
        439670.17   3763292.51        0.07261c (14041424)              439720.17
3763292.51        0.08839c (14041424)
        439770.17   3763292.51        0.10238c (14041424)              439820.17
3763292.51        0.11222c (14041424)
        439870.17   3763292.51        0.11548c (14041424)              439170.17
3763342.51        0.04443  (15113024)
        439220.17   3763342.51        0.04421  (15113024)              439270.17
3763342.51        0.04348  (15113024)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       13:58:33

                                PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	0.04192	(15113024)	439370.17	3763342.51	0.03962	(15113024)
439420.17	3763342.51	0.03637	(15113024)	439470.17	3763342.51	0.03452	(14120824)
439520.17	3763342.51	0.03473c	(14041424)	439570.17	3763342.51	0.04568c	(14041424)
439620.17	3763342.51	0.05832c	(14041424)	439670.17	3763342.51	0.07167c	(14041424)
439720.17	3763342.51	0.08439c	(14041424)	439770.17	3763342.51	0.09442c	(14041424)
439820.17	3763342.51	0.10017c	(14041424)	439870.17	3763342.51	0.10008c	(14041424)
439170.17	3763392.51	0.03797	(15113024)	439220.17	3763392.51	0.03689	(15113024)
439270.17	3763392.51	0.03535	(15113024)	439320.17	3763392.51	0.03302	(15113024)
439370.17	3763392.51	0.03091	(14120824)	439420.17	3763392.51	0.03052	(14120824)
439470.17	3763392.51	0.02989	(14120824)	439520.17	3763392.51	0.03690c	(14041424)
439570.17	3763392.51	0.04722c	(14041424)	439620.17	3763392.51	0.05854c	(14041424)
439670.17	3763392.51	0.06971c	(14041424)	439720.17	3763392.51	0.07963c	(14041424)
439770.17	3763392.51	0.08644c	(14041424)	439820.17	3763392.51	0.08904c	(14041424)
439870.17	3763392.51	0.08660	(15110924)	439170.17	3763442.51	0.03157	(15113024)
439220.17	3763442.51	0.02992	(15113024)	439270.17	3763442.51	0.02811	(14120824)
439320.17	3763442.51	0.02782	(14120824)	439370.17	3763442.51	0.02736	(14120824)
439420.17	3763442.51	0.02670	(14120824)	439470.17	3763442.51	0.03009c	(14041424)
439520.17	3763442.51	0.03860c	(14041424)	439570.17			

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3763442.51        0.04803c (14041424)
        439620.17   3763442.51        0.05788c (14041424)                439670.17
3763442.51        0.06701c (14041424)
        439720.17   3763442.51        0.07433c (14041424)                439770.17
3763442.51        0.07853c (14041424)
        439820.17   3763442.51        0.07881c (14041424)                439870.17
3763442.51        0.07784  (15110924)
        439203.20   3762911.16        0.09844  (12020624)                439253.20
3762911.16        0.10583  (12020624)
        439303.20   3762911.16        0.11426  (12020624)                439353.20
3762911.16        0.12407  (12020624)
        439403.20   3762911.16        0.13505  (12020624)                439453.20
3762911.16        0.14759  (12020624)
        439503.20   3762911.16        0.16211  (12020624)                439553.20
3762911.16        0.17832  (12020624)
        439203.20   3762961.16        0.09217  (12020624)                439253.20
3762961.16        0.09778  (12020624)
        439303.20   3762961.16        0.10376  (12020624)                439353.20
3762961.16        0.11031  (12020624)
        439403.20   3762961.16        0.11721  (12020624)                439453.20
3762961.16        0.12432  (12020624)
        439503.20   3762961.16        0.13163  (12020624)                439553.20
3762961.16        0.14709  (16010424)
        439203.20   3763011.16        0.08164  (12020624)                439253.20
3763011.16        0.08488  (12020624)
        439303.20   3763011.16        0.08803  (12020624)                439353.20
3763011.16        0.09217  (16010424)
        439403.20   3763011.16        0.10141  (16010424)                439453.20
3763011.16        0.11141  (15113024)
        439503.20   3763011.16        0.12434  (15113024)                439553.20
3763011.16        0.13784  (15113024)
        439203.20   3763061.16        0.06849  (16010424)                439253.20
3763061.16        0.07430  (16010424)
        439303.20   3763061.16        0.08043  (16010424)                439353.20
3763061.16        0.08814  (15113024)
        439403.20   3763061.16        0.09681  (15113024)                439453.20
3763061.16        0.10581  (15113024)
        439503.20   3763061.16        0.11467  (15113024)                439553.20
3763061.16        0.12275  (15113024)
        439196.01   3762392.48        0.10935  (14120124)                439246.01
3762392.48        0.11891  (14120124)
        439296.01   3762392.48        0.12989  (14120124)                439346.01
3762392.48        0.14271  (14120124)
        439396.01   3762392.48        0.15797  (14120124)                439446.01
3762392.48        0.17643  (14120124)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                       ***          04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***         13:58:33
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	0.19940	(14120124)	439546.01	3762392.48	0.22870	(14120124)
439196.01	3762442.48	0.11081	(14120124)	439246.01	3762442.48	0.12101	(14120124)
439296.01	3762442.48	0.13272	(14120124)	439346.01	3762442.48	0.14642	(14120124)
439396.01	3762442.48	0.16255	(14120124)	439446.01	3762442.48	0.18199	(14120124)
439496.01	3762442.48	0.20591	(14120124)	439546.01	3762442.48	0.23584	(14120124)
439196.01	3762492.48	0.10918	(14120124)	439246.01	3762492.48	0.11976	(14120124)
439296.01	3762492.48	0.13195	(14120124)	439346.01	3762492.48	0.14616	(14120124)
439396.01	3762492.48	0.16298	(14120124)	439446.01	3762492.48	0.18310	(14120124)
439496.01	3762492.48	0.20749	(14120124)	439546.01	3762492.48	0.23752	(14120124)
439196.01	3762542.48	0.10466	(14120124)	439246.01	3762542.48	0.11527	(14120124)
439296.01	3762542.48	0.12759	(14120124)	439346.01	3762542.48	0.14206	(14120124)
439396.01	3762542.48	0.15920	(14120124)	439446.01	3762542.48	0.17982	(14120124)
439496.01	3762542.48	0.20484	(14120124)	439546.01	3762542.48	0.23581	(14120124)
439196.01	3762592.48	0.09731	(14120124)	439246.01	3762592.48	0.10752	(14120124)
439296.01	3762592.48	0.11954	(14120124)	439346.01	3762592.48	0.13381	(14120124)
439396.01	3762592.48	0.15092	(14120124)	439446.01	3762592.48	0.17170	(14120124)
439496.01	3762592.48	0.19737	(14120124)	439546.01	3762592.48	0.22976	(14120124)

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        439196.01   3762642.48        0.08746  (14120124)              439246.01
3762642.48        0.09689  (14120124)
        439296.01   3762642.48        0.10813  (14120124)              439346.01
3762642.48        0.12160  (14120124)
        439396.01   3762642.48        0.13789  (14120124)              439446.01
3762642.48        0.15805  (14120124)
        439496.01   3762642.48        0.18344  (14120124)              439546.01
3762642.48        0.21625  (14120124)
        439196.01   3762692.48        0.08455  (12020624)              439246.01
3762692.48        0.09296  (12020624)
        439296.01   3762692.48        0.10241  (12020624)              439346.01
3762692.48        0.11327  (12020624)
        439396.01   3762692.48        0.12579  (12020624)              439446.01
3762692.48        0.14021  (12020624)
        439496.01   3762692.48        0.16170  (14120124)              439546.01
3762692.48        0.19238  (14120124)
        439196.01   3762742.48        0.09082  (12020624)              439246.01
3762742.48        0.09941  (12020624)
        439296.01   3762742.48        0.10899  (12020624)              439346.01
3762742.48        0.12015  (12020624)
        439396.01   3762742.48        0.13318  (12020624)              439446.01
3762742.48        0.14870  (12020624)
        439496.01   3762742.48        0.16729  (12020624)              439546.01
3762742.48        0.19113  (12020624)
        439196.01   3762792.48        0.09580  (12020624)              439246.01
3762792.48        0.10464  (12020624)
        439296.01   3762792.48        0.11446  (12020624)              439346.01
3762792.48        0.12599  (12020624)
        439396.01   3762792.48        0.13980  (12020624)              439446.01
3762792.48        0.15674  (12020624)
        439496.01   3762792.48        0.17748  (12020624)              439546.01
3762792.48        0.20420  (12020624)
        439196.01   3762842.48        0.09874  (12020624)              439246.01
3762842.48        0.10747  (12020624)
        439296.01   3762842.48        0.11734  (12020624)              439346.01
3762842.48        0.12890  (12020624)
        439396.01   3762842.48        0.14259  (12020624)              439446.01
3762842.48        0.15929  (12020624)
        439496.01   3762842.48        0.17963  (12020624)              439546.01
3762842.48        0.20514  (12020624)
        439573.31   3762470.54        0.25672  (14120124)              439623.31
3762470.54        0.29814  (14120124)
        439673.31   3762470.54        0.35023  (14120124)              439723.31
3762470.54        0.41833  (14120124)
        439773.31   3762470.54        0.51453  (14120124)              439823.31
3762470.54        0.66870  (14120124)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***          04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***         13:58:33
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	0.97224	(14120124)	439573.31	3762520.54	0.25639	(14120124)
439623.31	3762520.54	0.29724	(14120124)	439673.31	3762520.54	0.34598	(14120124)
439723.31	3762520.54	0.40467	(14120124)	439773.31	3762520.54	0.47652	(14120124)
439823.31	3762520.54	0.56627	(14120124)	439873.31	3762520.54	0.70717	(12020624)
439573.31	3762570.54	0.25352	(14120124)	439623.31	3762570.54	0.29708	(14120124)
439673.31	3762570.54	0.35010	(14120124)	439723.31	3762570.54	0.41498	(14120124)
439773.31	3762570.54	0.49566	(14120124)	439823.31	3762570.54	0.59799	(14120124)
439873.31	3762570.54	0.72826	(14120124)	439573.31	3762620.54	0.24503	(14120124)
439623.31	3762620.54	0.29266	(14120124)	439673.31	3762620.54	0.35395	(14120124)
439723.31	3762620.54	0.43475	(14120124)	439773.31	3762620.54	0.54737	(14120124)
439823.31	3762620.54	0.71503	(14120124)	439873.31	3762620.54	0.99951	(14120124)
439573.31	3762670.54	0.22576	(14120124)	439623.31	3762670.54	0.27387	(14120124)
439673.31	3762670.54	0.33952	(14120124)	439723.31	3762670.54	0.43084	(14120124)
439773.31	3762670.54	0.56421	(14120124)	439823.31	3762670.54	0.77365	(14120124)
439873.31	3762670.54	1.13477	(14120124)	439152.35	3761448.92	0.06789c	(12121724)
439202.35	3761448.92	0.06604c	(12121724)	439252.35	3761448.92	0.06376c	(12121724)
439302.35	3761448.92	0.06100c	(12121724)	439352.35			

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3761448.92        0.07421  (12122424)
        439402.35   3761448.92        0.08988  (12122424)                439452.35
3761448.92        0.10529  (12122424)
        439502.35   3761448.92        0.11888  (12122424)                439552.35
3761448.92        0.12896  (12122424)
        439152.35   3761498.92        0.07167c (12121724)                439202.35
3761498.92        0.07030c (12121724)
        439252.35   3761498.92        0.06845c (12121724)                439302.35
3761498.92        0.06600c (12121724)
        439352.35   3761498.92        0.06948  (12122424)                439402.35
3761498.92        0.08634  (12122424)
        439452.35   3761498.92        0.10380  (12122424)                439502.35
3761498.92        0.12032  (12122424)
        439552.35   3761498.92        0.13402  (12122424)                439152.35
3761548.92        0.07526c (12121724)
        439202.35   3761548.92        0.07439c (12121724)                439252.35
3761548.92        0.07302c (12121724)
        439302.35   3761548.92        0.07104c (12121724)                439352.35
3761548.92        0.06849c (12121724)
        439402.35   3761548.92        0.08166  (12122424)                439452.35
3761548.92        0.10085  (12122424)
        439502.35   3761548.92        0.12019  (12122424)                439552.35
3761548.92        0.13767  (12122424)
        439152.35   3761598.92        0.07855c (12121724)                439202.35
3761598.92        0.07827c (12121724)
        439252.35   3761598.92        0.07749c (12121724)                439302.35
3761598.92        0.07613c (12121724)
        439352.35   3761598.92        0.07413c (12121724)                439402.35
3761598.92        0.07592  (12122424)
        439452.35   3761598.92        0.09641  (12122424)                439502.35
3761598.92        0.11825  (12122424)
        439552.35   3761598.92        0.13951  (12122424)                439152.35
3761648.92        0.08145c (12121724)
        439202.35   3761648.92        0.08186c (12121724)                439252.35
3761648.92        0.08179c (12121724)
        439302.35   3761648.92        0.08115c (12121724)                439352.35
3761648.92        0.07986c (12121724)
        439402.35   3761648.92        0.07794c (12121724)                439452.35
3761648.92        0.09056  (12122424)
        439502.35   3761648.92        0.11441  (12122424)                439552.35
3761648.92        0.13921  (12122424)
        439152.35   3761698.92        0.08388c (12121724)                439202.35
3761698.92        0.08502c (12121724)
        439252.35   3761698.92        0.08572c (12121724)                439302.35
3761698.92        0.08592c (12121724)
        439352.35   3761698.92        0.08553c (12121724)                439402.35
3761698.92        0.08448c (12121724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       13:58:33
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	0.08345	(12122424)	439502.35	3761698.92	0.10870	(12122424)
439552.35	3761698.92	0.13656	(12122424)	439152.35	3761748.92	0.08569c	(12121724)
439202.35	3761748.92	0.08765c	(12121724)	439252.35	3761748.92	0.08920c	(12121724)
439302.35	3761748.92	0.09036c	(12121724)	439352.35	3761748.92	0.09098c	(12121724)
439402.35	3761748.92	0.09095c	(12121724)	439452.35	3761748.92	0.09018c	(12121724)
439502.35	3761748.92	0.10129	(12122424)	439552.35	3761748.92	0.13149	(12122424)
439152.35	3761798.92	0.08681c	(12121724)	439202.35	3761798.92	0.08963c	(12121724)
439252.35	3761798.92	0.09214c	(12121724)	439302.35	3761798.92	0.09433c	(12121724)
439352.35	3761798.92	0.09605c	(12121724)	439402.35	3761798.92	0.09726c	(12121724)
439452.35	3761798.92	0.09782c	(12121724)	439502.35	3761798.92	0.09752c	(12121724)
439552.35	3761798.92	0.12395	(12122424)	439152.35	3761848.92	0.08711c	(12121724)
439202.35	3761848.92	0.09078c	(12121724)	439252.35	3761848.92	0.09427c	(12121724)
439302.35	3761848.92	0.09758c	(12121724)	439352.35	3761848.92	0.10056c	(12121724)
439402.35	3761848.92	0.10320c	(12121724)	439452.35	3761848.92	0.10528c	(12121724)
439502.35	3761848.92	0.10667c	(12121724)	439552.35	3761848.92	0.11424	(12122424)
439152.35	3761898.92	0.08654c	(12121724)	439202.35	3761898.92	0.09103c	(12121724)

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        439252.35   3761898.92        0.09552c (12121724)                439302.35
3761898.92        0.10000c (12121724)
        439352.35   3761898.92        0.10434c (12121724)                439402.35
3761898.92        0.10848c (12121724)
        439452.35   3761898.92        0.11232c (12121724)                439502.35
3761898.92        0.11569c (12121724)
        439552.35   3761898.92        0.11835c (12121724)                439152.35
3761948.92        0.08502c (12121724)
        439202.35   3761948.92        0.09026c (12121724)                439252.35
3761948.92        0.09568c (12121724)
        439302.35   3761948.92        0.10133c (12121724)                439352.35
3761948.92        0.10706c (12121724)
        439402.35   3761948.92        0.11284c (12121724)                439452.35
3761948.92        0.11860c (12121724)
        439502.35   3761948.92        0.12420c (12121724)                439552.35
3761948.92        0.12944c (12121724)
        439152.35   3761998.92        0.08254c (12121724)                439202.35
3761998.92        0.08843c (12121724)
        439252.35   3761998.92        0.09470c (12121724)                439302.35
3761998.92        0.10142c (12121724)
        439352.35   3761998.92        0.10851c (12121724)                439402.35
3761998.92        0.11594c (12121724)
        439452.35   3761998.92        0.12372c (12121724)                439502.35
3761998.92        0.13177c (12121724)
        439552.35   3761998.92        0.13996c (12121724)                439152.35
3762048.92        0.07907c (12121724)
        439202.35   3762048.92        0.08554c (12121724)                439252.35
3762048.92        0.09254c (12121724)
        439302.35   3762048.92        0.10018c (12121724)                439352.35
3762048.92        0.10847c (12121724)
        439402.35   3762048.92        0.11748c (12121724)                439452.35
3762048.92        0.12727c (12121724)
        439502.35   3762048.92        0.13786c (12121724)                439552.35
3762048.92        0.14925c (12121724)
        439616.61   3761420.65        0.12828  (12122424)                439666.61
3761420.65        0.12335  (12122424)
        439716.61   3761420.65        0.11251  (12122424)                439766.61
3761420.65        0.09696  (12122424)
        439816.61   3761420.65        0.07871  (12122424)                439866.61
3761420.65        0.06433  (15010524)
        439616.61   3761470.65        0.13855  (12122424)                439666.61
3761470.65        0.13652  (12122424)
        439716.61   3761470.65        0.12744  (12122424)                439766.61
3761470.65        0.11220  (12122424)
        439816.61   3761470.65        0.09281  (12122424)                439866.61
3761470.65        0.07191  (12122424)
        439616.61   3761520.65        0.14837  (12122424)                439666.61
3761520.65        0.15013  (12122424)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN ***
INCLUDING SOURCE(S): PAREA1 , PAREA2 , PAREA3 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	0.14371	(12122424)	439766.61	3761520.65	0.12954	(12122424)
439816.61	3761520.65	0.10942	(12122424)	439866.61	3761520.65	0.08632	(12122424)
439616.61	3761570.65	0.15727	(12122424)	439666.61	3761570.65	0.16378	(12122424)
439716.61	3761570.65	0.16118	(12122424)	439766.61	3761570.65	0.14911	(12122424)
439816.61	3761570.65	0.12895	(12122424)	439866.61	3761570.65	0.10382	(12122424)
440451.14	3762893.83	0.46199	(12032624)	440501.14	3762893.83	0.35430	(12032624)
440551.14	3762893.83	0.29536	(12042324)	440601.14	3762893.83	0.25750	(12042324)
440651.14	3762893.83	0.22235	(12042324)	440701.14	3762893.83	0.19261	(12042324)
440751.14	3762893.83	0.16857	(12042324)	440801.14	3762893.83	0.14989	(12042324)
440851.14	3762893.83	0.13513	(12042324)	440451.14	3762943.83	0.43152c	(12011624)
440501.14	3762943.83	0.33294	(12032624)	440551.14	3762943.83	0.27408	(12032624)
440601.14	3762943.83	0.22455	(12032624)	440651.14	3762943.83	0.19887	(12042324)
440701.14	3762943.83	0.18226	(12042324)	440751.14	3762943.83	0.16490	(12042324)
440801.14	3762943.83	0.14942	(12042324)	440851.14	3762943.83	0.13566	(12042324)
441116.67	3763135.31	0.07295b	(12043024)	441166.67	3763135.31	0.06851b	(12043024)
441116.67	3763185.31	0.06856b	(12043024)	441166.67			

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3763185.31        0.06570b (12043024)
        441116.67   3763235.31        0.06176b (12043024)               441166.67
3763235.31        0.06058b (12043024)
        441116.67   3763285.31        0.05421  (12032624)               441166.67
3763285.31        0.05363b (12043024)
        441116.67   3763335.31        0.05546  (12021324)               441166.67
3763335.31        0.04917  (12032624)
        441116.67   3763385.31        0.05732  (13050624)               441166.67
3763385.31        0.05162  (12021324)
        441116.67   3763435.31        0.05823  (13050624)               441166.67
3763435.31        0.05292  (12021324)
        440433.43   3762815.13        0.56509  (12042324)               440483.43
3762815.13        0.42051  (12042324)
        440533.43   3762815.13        0.32097  (12042324)               440583.43
3762815.13        0.26420b (12061124)
        440633.43   3762815.13        0.22260b (12061124)               440683.43
3762815.13        0.19082b (12061124)
        440733.43   3762815.13        0.16611b (12061124)               440783.43
3762815.13        0.14754  (12042324)
        440833.43   3762815.13        0.13453  (12042324)               440883.43
3762815.13        0.12242  (12042324)
        440933.43   3762815.13        0.11078  (12042324)               440983.43
3762815.13        0.09962  (12042324)
        440433.43   3762865.13        0.53655  (12032624)               440483.43
3762865.13        0.40335  (12042324)
        440533.43   3762865.13        0.33696  (12042324)               440583.43
3762865.13        0.27949  (12042324)
        440633.43   3762865.13        0.23328  (12042324)               440683.43
3762865.13        0.19819  (12042324)
        440733.43   3762865.13        0.17215  (12042324)               440783.43
3762865.13        0.15281  (12042324)
        440833.43   3762865.13        0.13782  (12042324)               440883.43
3762865.13        0.12539  (12042324)
        440933.43   3762865.13        0.11444  (12042324)               440983.43
3762865.13        0.10440  (12042324)
        441118.27   3762686.02        0.08814c (13031824)               441168.27
3762686.02        0.08060c (13031824)
        441118.27   3762736.02        0.08449b (12061124)               441168.27
3762736.02        0.07802b (12061124)
        441118.27   3762786.02        0.08225b (12061124)               441168.27
3762786.02        0.07619b (12061124)
        441118.27   3762836.02        0.07662b (12061124)               441168.27
3762836.02        0.07134b (12061124)
        440411.67   3762093.41        0.19929  (12031224)               440461.67
3762093.41        0.18484  (12031224)
        440511.67   3762093.41        0.17174  (12031224)               440561.67
3762093.41        0.15850  (12031224)
        440611.67   3762093.41        0.14444  (12031224)               440411.67
3762143.41        0.22644  (12031224)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***       04/05/23
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                             *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P1GEN   ***
                                INCLUDING SOURCE(S):   PAREA1   , PAREA2   , PAREA3   ,

                                                  *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                                ** CONC OF PM_2.5   IN MICROGRAMS/M**3   **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	0.20961	(12031224)	440511.67	3762143.41	0.19316	(12031224)
440561.67	3762143.41	0.17545	(12031224)	440611.67	3762143.41	0.15638	(12031224)
440406.61	3762008.86	0.16440	(15122124)	440456.61	3762008.86	0.14822	(12031224)
440506.61	3762008.86	0.14081	(12031224)	440556.61	3762008.86	0.13332	(12031224)
440606.61	3762008.86	0.12528	(12031224)	440656.61	3762008.86	0.11650	(12031224)
440706.61	3762008.86	0.10704	(12031224)	440756.61	3762008.86	0.10065	(12030524)
440806.61	3762008.86	0.09909	(12030524)	440856.61	3762008.86	0.09690	(12030524)
440906.61	3762008.86	0.09416	(12030524)	440956.61	3762008.86	0.09086	(12030524)
441006.61	3762008.86	0.08721	(12030524)	441056.61	3762008.86	0.08326	(12030524)
441106.61	3762008.86	0.07918	(12030524)	441156.61	3762008.86	0.07503	(12030524)
440406.61	3762058.86	0.18256	(12031224)	440456.61	3762058.86	0.17030	(12031224)
440506.61	3762058.86	0.15938	(12031224)	440556.61	3762058.86	0.14865	(12031224)
440606.61	3762058.86	0.13738	(12031224)	440656.61	3762058.86	0.12533	(12031224)
440706.61	3762058.86	0.11282	(12031224)	440756.61	3762058.86	0.10824m	(12123124)
440806.61	3762058.86	0.10508m	(12123124)	440856.61	3762058.86	0.10153m	(12123124)

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        440906.61   3762058.86        0.09771m (12123124)                440956.61
3762058.86        0.09371m (12123124)
        441006.61   3762058.86        0.08960m (12123124)                441056.61
3762058.86        0.08546m (12123124)
        441106.61   3762058.86        0.08132m (12123124)                441156.61
3762058.86        0.07725m (12123124)
        440191.38   3762138.44        0.56559c (16011124)                440241.38
3762138.44        0.38380  (12031224)
        440291.38   3762138.44        0.30044  (12031224)                440341.38
3762138.44        0.25759  (12031224)
        440191.38   3762188.44        0.96823c (13110424)                440241.38
3762188.44        0.50739c (13110424)
        440291.38   3762188.44        0.34115m (12123124)                440341.38
3762188.44        0.28940  (12031224)
        440191.38   3762238.44        0.91063c (13110424)                440241.38
3762238.44        0.53169c (13110424)
        440291.38   3762238.44        0.39635c (13110424)                440341.38
3762238.44        0.33291  (12031224)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        13:58:33

                                   PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
        440407.86   3761497.84        7.69369  (12010924)                439943.36
3761716.33       11.03381m (13010324)
        439170.17   3763092.51        8.35978  (12011324)                439220.17
3763092.51        8.98470  (12011324)
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        439270.17   3763092.51        9.53480  (12011324)              439320.17
3763092.51       10.17383  (12011324)
        439370.17   3763092.51       10.86431  (12011324)              439420.17
3763092.51       11.61091  (12011324)
        439470.17   3763092.51       12.38711  (12011324)              439520.17
3763092.51       13.19188  (12011324)
        439570.17   3763092.51       14.31021  (12020424)              439620.17
3763092.51       15.61116  (12020424)
        439670.17   3763092.51       16.97843  (12020424)              439720.17
3763092.51       18.24343  (12020424)
        439770.17   3763092.51       19.12157  (12020424)              439820.17
3763092.51       19.33834  (12020424)
        439870.17   3763092.51       19.41165  (13112324)              439170.17
3763142.51        8.33440  (12011324)
        439220.17   3763142.51        8.80993  (12011324)              439270.17
3763142.51        9.30553  (12011324)
        439320.17   3763142.51        9.84252  (12011324)              439370.17
3763142.51       10.51030  (12020424)
        439420.17   3763142.51       11.20780  (12020424)              439470.17
3763142.51       11.98755  (12020424)
        439520.17   3763142.51       12.86779  (12020424)              439570.17
3763142.51       13.85595  (12020424)
        439620.17   3763142.51       14.87418  (12020424)              439670.17
3763142.51       15.74969  (12020424)
        439720.17   3763142.51       16.34660  (12020424)              439770.17
3763142.51       16.39127  (12020424)
        439820.17   3763142.51       16.41722  (13112324)              439870.17
3763142.51       17.49106  (13112324)
        439170.17   3763192.51        8.12433  (12011324)              439220.17
3763192.51        8.54857  (12020424)
        439270.17   3763192.51        9.13547  (12020424)              439320.17
3763192.51        9.78437  (12020424)
        439370.17   3763192.51       10.36080  (12020424)              439420.17
3763192.51       10.98428  (12020424)
        439470.17   3763192.51       11.69603  (12020424)              439520.17
3763192.51       12.44992  (12020424)
        439570.17   3763192.51       13.19291  (12020424)              439620.17
3763192.51       13.83906  (12020424)
        439670.17   3763192.51       14.22015  (12020424)              439720.17
3763192.51       14.14464  (12020424)
        439770.17   3763192.51       14.19419  (13112324)              439820.17
3763192.51       15.20239  (13112324)
        439870.17   3763192.51       15.75614  (13112324)              439170.17
3763242.51        8.06032  (12020424)
        439220.17   3763242.51        8.60890  (12020424)              439270.17
3763242.51        9.09976  (12020424)
        439320.17   3763242.51        9.64543  (12020424)              439370.17
3763242.51       10.15922  (12020424)
        439420.17   3763242.51       10.71347  (12020424)              439470.17
3763242.51       11.34080  (12020424)
        439520.17   3763242.51       11.88162  (12020424)              439570.17
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3763242.51       12.30589  (12020424)
        439620.17   3763242.51       12.52539  (12020424)                439670.17
3763242.51       12.42778  (12020424)
        439720.17   3763242.51       12.30640  (13112324)                439770.17
3763242.51       13.33609  (13112324)
        439820.17   3763242.51       14.14420  (13112324)                439870.17
3763242.51       14.44471  (13112324)
        439170.17   3763292.51        8.16838  (12020424)                439220.17
3763292.51        8.73807  (12020424)
        439270.17   3763292.51        9.19745  (12020424)                439320.17
3763292.51        9.61699  (12020424)
        439370.17   3763292.51        9.97737  (12020424)                439420.17
3763292.51       10.46379  (12020424)
        439470.17   3763292.51       10.91543  (12020424)                439520.17
3763292.51       11.21717  (12020424)
        439570.17   3763292.51       11.20666  (12020424)                439620.17
3763292.51       11.04051  (12020424)
        439670.17   3763292.51       10.73901  (13112324)                439720.17
3763292.51       11.72916  (13112324)
        439770.17   3763292.51       12.82131  (13112324)                439820.17
3763292.51       13.19280  (13112324)
        439870.17   3763292.51       12.97826  (13112324)                439170.17
3763342.51        8.21616  (12020424)
        439220.17   3763342.51        8.73796  (12020424)                439270.17
3763342.51        9.02158  (12020424)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        13:58:33

                                   PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                  L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                  L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                  L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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        439503.20   3762911.16       15.92607  (12122024)                439553.20
3762911.16       17.40744  (12122024)
        439203.20   3762961.16        9.73090  (12122024)                439253.20
3762961.16       10.35806  (12122024)
        439303.20   3762961.16       11.05313  (12122024)                439353.20
3762961.16       11.82926  (12122024)
        439403.20   3762961.16       12.68038  (12122024)                439453.20
3762961.16       13.59737  (12122024)
        439503.20   3762961.16       14.58588  (12122024)                439553.20
3762961.16       15.61498  (12122024)
        439203.20   3763011.16        9.27415  (12122024)                439253.20
3763011.16        9.81733  (12122024)
        439303.20   3763011.16       10.38429  (12122024)                439353.20
3763011.16       10.98167  (12122024)
        439403.20   3763011.16       11.57680  (12122024)                439453.20
3763011.16       12.62380  (12011324)
        439503.20   3763011.16       13.78502  (12011324)                439553.20
3763011.16       15.23335  (12011324)
        439203.20   3763061.16        8.70876  (12011324)                439253.20
3763061.16        9.40144  (12011324)
        439303.20   3763061.16       10.07069  (12011324)                439353.20
3763061.16       10.78742  (12011324)
        439403.20   3763061.16       11.58298  (12011324)                439453.20
3763061.16       12.45515  (12011324)
        439503.20   3763061.16       13.42887  (12011324)                439553.20
3763061.16       14.44352  (12011324)
        439196.01   3762392.48        8.36802  (14122624)                439246.01
3762392.48        9.32190  (14122624)
        439296.01   3762392.48       10.40820  (14122624)                439346.01
3762392.48       11.65034  (14122624)
        439396.01   3762392.48       13.06719  (14122624)                439446.01
3762392.48       14.67208  (14122624)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        13:58:33

                                    PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
                   L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                   L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                   L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	16.64663	(16122724)	439546.01	3762392.48	19.14737	(16122724)
439196.01	3762442.48	8.32553	(16020824)	439246.01	3762442.48	9.01281	(12020624)
439296.01	3762442.48	9.88518	(12020624)	439346.01	3762442.48	10.96408	(14122624)
439396.01	3762442.48	12.38187	(14122624)	439446.01	3762442.48	14.07680	(16122724)
439496.01	3762442.48	16.15304	(16122724)	439546.01	3762442.48	18.67746	(16122724)
439196.01	3762492.48	8.32992	(12020624)	439246.01	3762492.48	9.08229	(12020624)
439296.01	3762492.48	9.96131	(12020624)	439346.01	3762492.48	10.98756	(12020624)
439396.01	3762492.48	12.27913	(12122024)	439446.01	3762492.48	13.84585	(12122024)
439496.01	3762492.48	15.74241	(12122024)	439546.01	3762492.48	18.04036	(12122024)
439196.01	3762542.48	8.56975	(12122024)	439246.01	3762542.48	9.42585	(12122024)
439296.01	3762542.48	10.42020	(12122024)	439346.01	3762542.48	11.56950	(12122024)
439396.01	3762542.48	12.91669	(12122024)	439446.01	3762542.48	14.49671	(12122024)
439496.01	3762542.48	16.38378	(12122024)	439546.01	3762542.48	18.62155	(12122024)
439196.01	3762592.48	8.99754	(12122024)	439246.01	3762592.48	9.86615	(12122024)
439296.01	3762592.48	10.85211	(12122024)	439346.01	3762592.48	11.97807	(12122024)
439396.01	3762592.48	13.27685	(12122024)	439446.01	3762592.48	14.78706	(12122024)
439496.01	3762592.48	16.56066	(12122024)	439546.01	3762592.48	18.62070	(12122024)
439196.01	3762642.48	9.32695	(12122024)	439246.01	3762642.48	10.17731	(12122024)
439296.01	3762642.48	11.12649	(12122024)	439346.01	3762642.48	12.19878	(12122024)
439396.01	3762642.48	13.43293	(12122024)	439446.01	3762642.48	14.84673	(12122024)
439496.01	3762642.48	16.48562	(12122024)	439546.01			

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3762642.48       18.36604  (12122024)
        439196.01   3762692.48        9.59423  (12122024)               439246.01
3762692.48       10.41976  (12122024)
        439296.01   3762692.48       11.34612  (12122024)               439346.01
3762692.48       12.38369  (12122024)
        439396.01   3762692.48       13.54541  (12122024)               439446.01
3762692.48       14.88096  (12122024)
        439496.01   3762692.48       16.42281  (12122024)               439546.01
3762692.48       18.18947  (12122024)
        439196.01   3762742.48        9.83330  (12122024)               439246.01
3762742.48       10.63841  (12122024)
        439296.01   3762742.48       11.54153  (12122024)               439346.01
3762742.48       12.54875  (12122024)
        439396.01   3762742.48       13.68452  (12122024)               439446.01
3762742.48       14.97860  (12122024)
        439496.01   3762742.48       16.48823  (12122024)               439546.01
3762742.48       18.25087  (12122024)
        439196.01   3762792.48       10.02728  (12122024)               439246.01
3762792.48       10.81148  (12122024)
        439296.01   3762792.48       11.69431  (12122024)               439346.01
3762792.48       12.68233  (12122024)
        439396.01   3762792.48       13.80223  (12122024)               439446.01
3762792.48       15.08814  (12122024)
        439496.01   3762792.48       16.61784  (12122024)               439546.01
3762792.48       18.44495  (12122024)
        439196.01   3762842.48       10.11774  (12122024)               439246.01
3762842.48       10.87816  (12122024)
        439296.01   3762842.48       11.72649  (12122024)               439346.01
3762842.48       12.68408  (12122024)
        439396.01   3762842.48       13.78250  (12122024)               439446.01
3762842.48       15.05805  (12122024)
        439496.01   3762842.48       16.57200  (12122024)               439546.01
3762842.48       18.36957  (12122024)
        439573.31   3762470.54       19.90510  (16122724)               439623.31
3762470.54       23.42484  (16122724)
        439673.31   3762470.54       27.76851  (16122724)               439723.31
3762470.54       33.19510  (16122724)
        439773.31   3762470.54       40.26532  (16122724)               439823.31
3762470.54       49.94513  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       13:58:33

                                   PAGE  84
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013407    , L0013408
, L0013409    , L0013410    , L0013411    ,
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                L0013412    , L0013413    , L0013414    , L0013415    , L0013416
, L0013417    , L0013418    , L0013419    ,
                L0013420    , L0013421    , L0013422    , L0013423    , L0013424
, L0013425    , L0013426    , L0013427    ,
                L0013428    , L0013429    , L0013430    , L0013431    , L0013432
, L0013433    , L0013434    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                           ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439873.31   3762470.54       63.11154  (16122724)               439573.31
3762520.54       19.88056  (12122024)
        439623.31   3762520.54       22.98897  (12122024)               439673.31
3762520.54       27.01318  (16122724)
        439723.31   3762520.54       32.54129  (16122724)               439773.31
3762520.54       39.43345  (16122724)
        439823.31   3762520.54       48.07273  (16122724)               439873.31
3762520.54       61.53232  (16122724)
        439573.31   3762570.54       20.00566  (12122024)               439623.31
3762570.54       22.82332  (12122024)
        439673.31   3762570.54       26.20324  (12122024)               439723.31
3762570.54       31.21790  (16122724)
        439773.31   3762570.54       37.94306  (16122724)               439823.31
3762570.54       46.26177  (16122724)
        439873.31   3762570.54       57.29465  (16122724)               439573.31
3762620.54       19.68178  (12122024)
        439623.31   3762620.54       22.18811  (12122024)               439673.31
3762620.54       25.14981  (12122024)
        439723.31   3762620.54       28.94592  (16122724)               439773.31
3762620.54       35.45044  (16122724)
        439823.31   3762620.54       43.72348  (16122724)               439873.31
3762620.54       54.21189  (16122724)
        439573.31   3762670.54       19.34642  (12122024)               439623.31
3762670.54       21.68389  (12122024)
        439673.31   3762670.54       24.49768  (12122024)               439723.31
3762670.54       28.09478  (12122024)
        439773.31   3762670.54       32.96259  (12122024)               439823.31
3762670.54       40.84198  (12020624)
        439873.31   3762670.54       53.29176  (16122724)               439152.35
3761448.92        5.53494  (15031324)
        439202.35   3761448.92        5.60918  (15031324)               439252.35
3761448.92        5.64644  (15031324)
        439302.35   3761448.92        5.61966  (15031324)               439352.35
3761448.92        5.53035  (15031324)
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        439402.35   3761448.92        5.52758  (13010224)               439452.35
3761448.92        5.55612  (13010224)
        439502.35   3761448.92        5.58764  (15010624)               439552.35
3761448.92        5.77940  (16121624)
        439152.35   3761498.92        5.79852  (15031324)               439202.35
3761498.92        5.96265  (15031324)
        439252.35   3761498.92        6.08572  (15031324)               439302.35
3761498.92        6.09864  (15031324)
        439352.35   3761498.92        6.04717  (15031324)               439402.35
3761498.92        5.92442  (15031324)
        439452.35   3761498.92        5.92064  (13010224)               439502.35
3761498.92        5.92672  (13010224)
        439552.35   3761498.92        6.09902  (15010624)               439152.35
3761548.92        6.02151  (15031324)
        439202.35   3761548.92        6.25775  (15031324)               439252.35
3761548.92        6.44924  (15031324)
        439302.35   3761548.92        6.53905  (15031324)               439352.35
3761548.92        6.54595  (15031324)
        439402.35   3761548.92        6.49497  (15031324)               439452.35
3761548.92        6.35144  (15031324)
        439502.35   3761548.92        6.36139  (13010224)               439552.35
3761548.92        6.40408  (15010624)
        439152.35   3761598.92        6.19426  (15031324)               439202.35
3761598.92        6.50005  (15031324)
        439252.35   3761598.92        6.77438  (15031324)               439302.35
3761598.92        6.97334  (15031324)
        439352.35   3761598.92        7.06586  (15031324)               439402.35
3761598.92        7.10234  (15031324)
        439452.35   3761598.92        7.03921  (15031324)               439502.35
3761598.92        6.84861  (15031324)
        439552.35   3761598.92        6.86674  (13010224)               439152.35
3761648.92        6.30467  (15031324)
        439202.35   3761648.92        6.69944  (15031324)               439252.35
3761648.92        7.06956  (15031324)
        439302.35   3761648.92        7.37851  (15031324)               439352.35
3761648.92        7.59278  (15031324)
        439402.35   3761648.92        7.73270  (15031324)               439452.35
3761648.92        7.75592  (15031324)
        439502.35   3761648.92        7.67043  (15031324)               439552.35
3761648.92        7.45145  (15031324)
        439152.35   3761698.92        6.52773  (16122724)               439202.35
3761698.92        6.82788  (15031324)
        439252.35   3761698.92        7.27389  (15031324)               439302.35
3761698.92        7.70047  (15031324)
        439352.35   3761698.92        8.06684  (15031324)               439402.35
3761698.92        8.35264  (15031324)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                          ***          04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***         13:58:33
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 , L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 , L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 , L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	8.46504	(15031324)	439502.35	3761698.92	8.51354	(15031324)
439552.35	3761698.92	8.40383	(15031324)	439152.35	3761748.92	7.03470	(16122724)
439202.35	3761748.92	7.11589	(16122724)	439252.35	3761748.92	7.41858	(15031324)
439302.35	3761748.92	7.96118	(15031324)	439352.35	3761748.92	8.44829	(15031324)
439402.35	3761748.92	8.86705	(15031324)	439452.35	3761748.92	9.15712	(15031324)
439502.35	3761748.92	9.30504	(15031324)	439552.35	3761748.92	9.35707	(15031324)
439152.35	3761798.92	7.48846	(16122724)	439202.35	3761798.92	7.69408	(16122724)
439252.35	3761798.92	7.80434	(16122724)	439302.35	3761798.92	8.17652	(15031324)
439352.35	3761798.92	8.76462	(15031324)	439402.35	3761798.92	9.32583	(15031324)
439452.35	3761798.92	9.83398	(15031324)	439502.35	3761798.92	10.13673	(15031324)
439552.35	3761798.92	10.38298	(15031324)	439152.35	3761848.92	7.87532	(16122724)
439202.35	3761848.92	8.19833	(16122724)	439252.35	3761848.92	8.43718	(16122724)
439302.35	3761848.92	8.61732	(16122724)	439352.35	3761848.92	8.97007	(15031324)
439402.35	3761848.92	9.73635	(15031324)	439452.35			

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3761848.92       10.40814  (15031324)
        439502.35   3761848.92       10.91688  (15031324)                439552.35
3761848.92       11.40043  (15031324)
        439152.35   3761898.92        8.19216  (16122724)                439202.35
3761898.92        8.62357  (16122724)
        439252.35   3761898.92        8.99937  (16122724)                439302.35
3761898.92        9.36664  (16122724)
        439352.35   3761898.92        9.60333  (16122724)                439402.35
3761898.92       10.01696  (15031324)
        439452.35   3761898.92       10.93308  (15031324)                439502.35
3761898.92       11.74583  (15031324)
        439552.35   3761898.92       12.45184  (15031324)                439152.35
3761948.92        8.42291  (16122724)
        439202.35   3761948.92        8.95330  (16122724)                439252.35
3761948.92        9.45737  (16122724)
        439302.35   3761948.92       10.00071  (16122724)                439352.35
3761948.92       10.44981  (16122724)
        439402.35   3761948.92       10.77548  (16122724)                439452.35
3761948.92       11.29986  (15031324)
        439502.35   3761948.92       12.38897  (15031324)                439552.35
3761948.92       13.41193  (15031324)
        439152.35   3761998.92        8.71508  (14122624)                439202.35
3761998.92        9.18786  (16122724)
        439252.35   3761998.92        9.80510  (16122724)                439302.35
3761998.92       10.50827  (16122724)
        439352.35   3761998.92       11.17555  (16122724)                439402.35
3761998.92       11.72508  (16122724)
        439452.35   3761998.92       12.22821  (16122724)                439502.35
3761998.92       12.78222  (15031324)
        439552.35   3761998.92       14.13052  (15031324)                439152.35
3762048.92        9.02904  (14122624)
        439202.35   3762048.92        9.58077  (14122624)                439252.35
3762048.92       10.13721  (14122624)
        439302.35   3762048.92       10.91847  (16122724)                439352.35
3762048.92       11.73459  (16122724)
        439402.35   3762048.92       12.53366  (16122724)                439452.35
3762048.92       13.32808  (16122724)
        439502.35   3762048.92       14.03230  (16122724)                439552.35
3762048.92       14.67712  (15031324)
        439616.61   3761420.65        5.68101  (16121624)                439666.61
3761420.65        5.88769m (13010324)
        439716.61   3761420.65        6.31822m (13010324)                439766.61
3761420.65        6.62497m (13010324)
        439816.61   3761420.65        6.77476m (13010324)                439866.61
3761420.65        6.78479m (13010324)
        439616.61   3761470.65        6.07587  (16121624)                439666.61
3761470.65        6.11165  (13121424)
        439716.61   3761470.65        6.61898m (13010324)                439766.61
3761470.65        7.01081m (13010324)
        439816.61   3761470.65        7.23388m (13010324)                439866.61
3761470.65        7.30198m (13010324)
```

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	6.93224m	(13010324)	439766.61	3761520.65	7.43305m	(13010324)
439816.61	3761520.65	7.74939m	(13010324)	439866.61	3761520.65	7.88132m	(13010324)
439616.61	3761570.65	6.90425	(15010624)	439666.61	3761570.65	7.03423	(13121424)
439716.61	3761570.65	7.25941m	(13010324)	439766.61	3761570.65	7.87971m	(13010324)
439816.61	3761570.65	8.31528m	(13010324)	439866.61	3761570.65	8.52294m	(13010324)
440451.14	3762893.83	49.53289	(12120224)	440501.14	3762893.83	43.37663	(12120224)
440551.14	3762893.83	37.62736	(12120224)	440601.14	3762893.83	32.89028	(12120224)
440651.14	3762893.83	28.82455	(12120224)	440701.14	3762893.83	25.36118	(12120224)
440751.14	3762893.83	22.15348	(12120224)	440801.14	3762893.83	19.76190m	(12050224)
440851.14	3762893.83	18.69979m	(12050224)	440451.14	3762943.83	39.29385	(12120224)

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        440501.14   3762943.83       36.92391  (12120224)                440551.14
3762943.83       33.84452  (12120224)
        440601.14   3762943.83       30.62637  (12120224)                440651.14
3762943.83       27.52996  (12120224)
        440701.14   3762943.83       24.74979  (14032624)                440751.14
3762943.83       22.31426  (14032624)
        440801.14   3762943.83       20.16871  (14032624)                440851.14
3762943.83       18.15184  (14032624)
        441116.67   3763135.31       12.48223  (14032624)                441166.67
3763135.31       11.56115  (14032624)
        441116.67   3763185.31       12.42513  (14032624)                441166.67
3763185.31       11.61578  (14032624)
        441116.67   3763235.31       12.03717  (14032624)                441166.67
3763235.31       11.41878  (14032624)
        441116.67   3763285.31       11.75474  (14032624)                441166.67
3763285.31       11.22370  (14032624)
        441116.67   3763335.31       11.13148  (12120224)                441166.67
3763335.31       10.69030  (14032624)
        441116.67   3763385.31       10.50031  (12120224)                441166.67
3763385.31       10.26816  (12120224)
        441116.67   3763435.31        9.75150  (12120224)                441166.67
3763435.31        9.65108  (12120224)
        440433.43   3762815.13       65.03665  (12120224)                440483.43
3762815.13       51.31221  (12120224)
        440533.43   3762815.13       42.62939m (12050224)                440583.43
3762815.13       37.45029m (12050224)
        440633.43   3762815.13       33.42160m (12050224)                440683.43
3762815.13       30.14315m (12050224)
        440733.43   3762815.13       27.40369m (12050224)                440783.43
3762815.13       25.12206m (12050224)
        440833.43   3762815.13       23.14569m (12050224)                440883.43
3762815.13       21.44669m (12050224)
        440933.43   3762815.13       19.91810m (12050224)                440983.43
3762815.13       18.57263m (12050224)
        440433.43   3762865.13       58.38789  (12120224)                440483.43
3762865.13       48.71373  (12120224)
        440533.43   3762865.13       41.04104  (12120224)                440583.43
3762865.13       35.06108  (12120224)
        440633.43   3762865.13       30.24032  (12120224)                440683.43
3762865.13       26.15640  (12120224)
        440733.43   3762865.13       23.89016m (12050224)                440783.43
3762865.13       22.26626m (12050224)
        440833.43   3762865.13       20.82287m (12050224)                440883.43
3762865.13       19.52506m (12050224)
        440933.43   3762865.13       18.33048m (12050224)                440983.43
3762865.13       17.25039m (12050224)
        441118.27   3762686.02       14.92004m (12050224)                441168.27
3762686.02       14.00555m (12050224)
        441118.27   3762736.02       15.67192m (12050224)                441168.27
3762736.02       14.68310m (12050224)
        441118.27   3762786.02       15.81034m (12050224)                441168.27
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013407 , L0013408 , L0013409 , L0013410 , L0013411 ,
L0013412 , L0013413 , L0013414 , L0013415 , L0013416 , L0013417 , L0013418 , L0013419 ,
L0013420 , L0013421 , L0013422 , L0013423 , L0013424 , L0013425 , L0013426 , L0013427 ,
L0013428 , L0013429 , L0013430 , L0013431 , L0013432 , L0013433 , L0013434 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	18.14341	(14110424)	440511.67	3762143.41	16.80641	(14110424)
440561.67	3762143.41	15.28227	(14110424)	440611.67	3762143.41	13.68806	(14110424)
440406.61	3762008.86	15.26078	(12010924)	440456.61	3762008.86	14.08643	(12010924)
440506.61	3762008.86	12.85834	(14110424)	440556.61	3762008.86	12.13546	(14110424)
440606.61	3762008.86	11.32078	(14110424)	440656.61	3762008.86	10.40961	(14110424)
440706.61	3762008.86	9.45394	(14110424)	440756.61	3762008.86	8.52546	(14110424)
440806.61	3762008.86	7.65561	(14110424)	440856.61			

3762008.86 6.93910 (14110424)
440906.61 3762008.86 6.76434b (14072524) 440956.61
3762008.86 6.74799b (14072524)
441006.61 3762008.86 6.72697b (14072524) 441056.61
3762008.86 6.68140b (14072524)
441106.61 3762008.86 6.63654b (14072524) 441156.61
3762008.86 6.57809b (14072524)
440406.61 3762058.86 16.85191 (12010924) 440456.61
3762058.86 15.37431 (12010924)
440506.61 3762058.86 14.24098 (14110424) 440556.61
3762058.86 13.31458 (14110424)
440606.61 3762058.86 12.25872 (14110424) 440656.61
3762058.86 11.12747 (14110424)
440706.61 3762058.86 10.00541 (14110424) 440756.61
3762058.86 8.95906 (14110424)
440806.61 3762058.86 8.02903 (14110424) 440856.61
3762058.86 7.66698b (14072524)
440906.61 3762058.86 7.62123b (14072524) 440956.61
3762058.86 7.56001b (14072524)
441006.61 3762058.86 7.48918b (14072524) 441056.61
3762058.86 7.40777b (14072524)
441106.61 3762058.86 7.30948b (14072524) 441156.61
3762058.86 7.19221b (14072524)
440191.38 3762138.44 32.53388 (12010924) 440241.38
3762138.44 27.74086 (12010924)
440291.38 3762138.44 24.46526 (12010924) 440341.38
3762138.44 22.06296 (12010924)
440191.38 3762188.44 38.38961 (12010924) 440241.38
3762188.44 31.03284 (12010924)
440291.38 3762188.44 27.30193 (12010924) 440341.38
3762188.44 24.73225 (12010924)
440191.38 3762238.44 43.28734 (14110424) 440241.38
3762238.44 34.57952 (14110424)
440291.38 3762238.44 30.69755 (12010924) 440341.38
3762238.44 27.82703 (12010924)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE SUMMARY OF MAXIMUM PERIOD (43848 HRS) RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

```
                        NETWORK
GROUP ID                      AVERAGE CONC                RECEPTOR  (XR, YR, ZELEV,
ZHILL, ZFLAG)  OF TYPE  GRID-ID
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - -

P1ONRUN   1ST HIGHEST VALUE IS     15.50182 AT (  439873.31,  3762470.54,   214.70,
  214.70,    0.00)  DC
          2ND HIGHEST VALUE IS     14.24491 AT (  439873.31,  3762520.54,   215.18,
  215.18,    0.00)  DC
          3RD HIGHEST VALUE IS     13.99045 AT (  440433.43,  3762815.13,   219.62,
  219.62,    0.00)  DC
          4TH HIGHEST VALUE IS     12.40760 AT (  439873.31,  3762570.54,   215.86,
  215.86,    0.00)  DC
          5TH HIGHEST VALUE IS     11.56541 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
          6TH HIGHEST VALUE IS     11.33296 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
          7TH HIGHEST VALUE IS     11.06304 AT (  439873.31,  3762620.54,   216.53,
  216.53,    0.00)  DC
          8TH HIGHEST VALUE IS     10.36994 AT (  439873.31,  3762670.54,   217.06,
  217.06,    0.00)  DC
          9TH HIGHEST VALUE IS     10.36298 AT (  439823.31,  3762470.54,   214.39,
  214.39,    0.00)  DC
         10TH HIGHEST VALUE IS      9.75147 AT (  439823.31,  3762520.54,   214.76,
  214.76,    0.00)  DC

P1ONIDLE  1ST HIGHEST VALUE IS     17.34975 AT (  440433.43,  3762815.13,   219.62,
  219.62,    0.00)  DC
          2ND HIGHEST VALUE IS     17.21180 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          3RD HIGHEST VALUE IS     12.88361 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
          4TH HIGHEST VALUE IS     12.79993 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
          5TH HIGHEST VALUE IS     12.19469 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
          6TH HIGHEST VALUE IS     12.18977 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
          7TH HIGHEST VALUE IS     10.57708 AT (  440483.43,  3762865.13,   220.09,
  220.09,    0.00)  DC
          8TH HIGHEST VALUE IS     10.42350 AT (  439873.31,  3762470.54,   214.70,
  214.70,    0.00)  DC
          9TH HIGHEST VALUE IS     10.40293 AT (  439873.31,  3762670.54,   217.06,
  217.06,    0.00)  DC
         10TH HIGHEST VALUE IS     10.38143 AT (  439873.31,  3762620.54,   216.53,
  216.53,    0.00)  DC

P1GEN     1ST HIGHEST VALUE IS      0.04595 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          2ND HIGHEST VALUE IS      0.03572 AT (  440191.38,  3762188.44,   212.58,
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  212.58,    0.00)  DC
         3RD HIGHEST VALUE IS       0.03218 AT (  440433.43,  3762815.13,   219.62,
  219.62,    0.00)  DC
         4TH HIGHEST VALUE IS       0.02485 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
         5TH HIGHEST VALUE IS       0.02365 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
         6TH HIGHEST VALUE IS       0.02080 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
         7TH HIGHEST VALUE IS       0.01908 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
         8TH HIGHEST VALUE IS       0.01836 AT (  440533.43,  3762815.13,   219.20,
  219.20,    0.00)  DC
         9TH HIGHEST VALUE IS       0.01707 AT (  440483.43,  3762865.13,   220.09,
  220.09,    0.00)  DC
        10TH HIGHEST VALUE IS       0.01682 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC

ALL       1ST HIGHEST VALUE IS      31.37238 AT (  440433.43,  3762815.13,   219.62,
  219.62,    0.00)  DC
         2ND HIGHEST VALUE IS      25.93434 AT (  439873.31,  3762470.54,   214.70,
  214.70,    0.00)  DC
         3RD HIGHEST VALUE IS      25.89899 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
         4TH HIGHEST VALUE IS      24.57904 AT (  439873.31,  3762520.54,   215.18,
  215.18,    0.00)  DC
         5TH HIGHEST VALUE IS      24.47268 AT (  440483.43,  3762815.13,   219.43,
  219.43,    0.00)  DC
         6TH HIGHEST VALUE IS      24.15369 AT (  440433.43,  3762865.13,   220.29,
  220.29,    0.00)  DC
         7TH HIGHEST VALUE IS      22.71063 AT (  439873.31,  3762570.54,   215.86,
  215.86,    0.00)  DC
         8TH HIGHEST VALUE IS      21.45239 AT (  439873.31,  3762620.54,   216.53,
  216.53,    0.00)  DC
         9TH HIGHEST VALUE IS      20.78114 AT (  439873.31,  3762670.54,   217.06,
  217.06,    0.00)  DC
        10TH HIGHEST VALUE IS      20.26113 AT (  440483.43,  3762865.13,   220.09,
  220.09,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
↟ *** AERMOD - VERSION 21112  ***   *** Ontario Euclid CSTN
                        ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***       13:58:33

                                 PAGE  89
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
```

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	NETWORK GRID-ID
P1ONRUN	HIGH	1ST HIGH VALUE IS	37.55192	ON 16122724: AT (439873.31, 3762470.54, 214.70, 214.70, 0.00)	DC	
P1ONIDLE	HIGH	1ST HIGH VALUE IS	35.45622	ON 12120224: AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC	
P1GEN	HIGH	1ST HIGH VALUE IS	1.13477	ON 14120124: AT (439873.31, 3762670.54, 217.06, 217.06, 0.00)	DC	
ALL	HIGH	1ST HIGH VALUE IS	65.03665	ON 12120224: AT (440433.43, 3762815.13, 219.62, 219.62, 0.00)	DC	

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1279 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 917 Calm Hours Identified

```
A Total of          362 Missing Hours Identified (  0.83 Percent)


   ******** FATAL ERROR MESSAGES ********
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186    1421       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187    1421       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
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**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/5/2023
** File: C:\Lakes\OntarioEuclid_P2Ops_PM2_5\OntarioEuclid_P2Ops_PM2_5.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid Phase 2 Ops PM2.5
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2035210
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_P2Ops_PM2_5.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC Onsite Driveway 15
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440245.868, 3762473.161, 216.43, 3.11, 5.58
** 440247.108, 3762331.785, 213.64, 3.11, 5.58
** 440275.011, 3762331.785, 214.40, 3.11, 5.58
** 440274.391, 3762401.853, 214.97, 3.11, 5.58
** 440374.222, 3762403.713, 215.22, 3.11, 5.58
```

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** ----------------------------------------------------------------------
   LOCATION L0013572     VOLUME   440245.920 3762467.161 216.26
   LOCATION L0013573     VOLUME   440246.026 3762455.161 215.84
   LOCATION L0013574     VOLUME   440246.131 3762443.162 215.48
   LOCATION L0013575     VOLUME   440246.236 3762431.162 215.15
   LOCATION L0013576     VOLUME   440246.341 3762419.163 214.84
   LOCATION L0013577     VOLUME   440246.447 3762407.163 214.62
   LOCATION L0013578     VOLUME   440246.552 3762395.164 214.41
   LOCATION L0013579     VOLUME   440246.657 3762383.164 214.26
   LOCATION L0013580     VOLUME   440246.763 3762371.165 214.16
   LOCATION L0013581     VOLUME   440246.868 3762359.165 214.05
   LOCATION L0013582     VOLUME   440246.973 3762347.165 213.92
   LOCATION L0013583     VOLUME   440247.078 3762335.166 213.78
   LOCATION L0013584     VOLUME   440255.727 3762331.785 213.97
   LOCATION L0013585     VOLUME   440267.727 3762331.785 214.30
   LOCATION L0013586     VOLUME   440274.969 3762336.501 214.51
   LOCATION L0013587     VOLUME   440274.863 3762348.501 214.61
   LOCATION L0013588     VOLUME   440274.757 3762360.500 214.71
   LOCATION L0013589     VOLUME   440274.651 3762372.500 214.78
   LOCATION L0013590     VOLUME   440274.545 3762384.499 214.86
   LOCATION L0013591     VOLUME   440274.438 3762396.499 214.95
   LOCATION L0013592     VOLUME   440281.036 3762401.977 215.04
   LOCATION L0013593     VOLUME   440293.033 3762402.200 215.13
   LOCATION L0013594     VOLUME   440305.031 3762402.424 215.12
   LOCATION L0013595     VOLUME   440317.029 3762402.647 215.09
   LOCATION L0013596     VOLUME   440329.027 3762402.871 215.09
   LOCATION L0013597     VOLUME   440341.025 3762403.094 215.10
   LOCATION L0013598     VOLUME   440353.023 3762403.318 215.13
   LOCATION L0013599     VOLUME   440365.021 3762403.542 215.17
** End of LINE VOLUME Source ID = SLINE40
** ----------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC PA 2 Idling
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 2
** 440261.990, 3762476.881, 217.47, 3.66, 5.58
** 440259.509, 3762341.086, 214.24, 3.66, 5.58
** ----------------------------------------------------------------------
   LOCATION L0013628     VOLUME   440261.880 3762470.882 216.82
   LOCATION L0013629     VOLUME   440261.661 3762458.884 216.16
   LOCATION L0013630     VOLUME   440261.442 3762446.886 215.67
   LOCATION L0013631     VOLUME   440261.223 3762434.888 215.38
   LOCATION L0013632     VOLUME   440261.003 3762422.890 215.08
   LOCATION L0013633     VOLUME   440260.784 3762410.892 214.92
   LOCATION L0013634     VOLUME   440260.565 3762398.894 214.76
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   LOCATION L0013635     VOLUME   440260.346 3762386.896 214.62
   LOCATION L0013636     VOLUME   440260.127 3762374.898 214.52
   LOCATION L0013637     VOLUME   440259.908 3762362.900 214.42
   LOCATION L0013638     VOLUME   440259.689 3762350.902 214.29
** End of LINE VOLUME Source ID = SLINE41
   LOCATION PAREA4       AREAPOLY   440194.402  3762471.300      216.050
** DESCRSRC Generator P2
** Source Parameters **
** LINE VOLUME Source ID = SLINE40
   SRCPARAM L0013572     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013573     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013574     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013575     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013576     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013577     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013578     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013579     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013580     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013581     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013582     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013583     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013584     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013585     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013586     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013587     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013588     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013589     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013590     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013591     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013592     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013593     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013594     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013595     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013596     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013597     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013598     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013599     0.0357142857      3.11      5.58      2.89
** ------------------------------------------------------------------
** LINE VOLUME Source ID = SLINE41
   SRCPARAM L0013628     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013629     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013630     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013631     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013632     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013633     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013634     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013635     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013636     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013637     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013638     0.0909090909      3.66      5.58      3.40
** ------------------------------------------------------------------
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   SRCPARAM PAREA4       0.000049824     5.000         5
   AREAVERT PAREA4       440194.402 3762471.300 440340.118 3762473.161
   AREAVERT PAREA4       440342.598 3762333.645 440201.843 3762331.165
   AREAVERT PAREA4       440193.782 3762474.401
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP P2ONSITE L0013572 L0013573 L0013574 L0013575 L0013576 L0013577
   SRCGROUP P2ONSITE L0013578 L0013579 L0013580 L0013581 L0013582 L0013583
   SRCGROUP P2ONSITE L0013584 L0013585 L0013586 L0013587 L0013588 L0013589
   SRCGROUP P2ONSITE L0013590 L0013591 L0013592 L0013593 L0013594 L0013595
   SRCGROUP P2ONSITE L0013596 L0013597 L0013598 L0013599
   SRCGROUP P2IDLE   L0013628 L0013629 L0013630 L0013631 L0013632 L0013633
   SRCGROUP P2IDLE   L0013634 L0013635 L0013636 L0013637 L0013638
   SRCGROUP P2GEN    PAREA4
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_P2Ops_PM2_5.rou
RE FINISHED
**
**************************************
** AERMOD Meteorology Pathway
```

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**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\24H1GALL.PLT 32
   PLOTFILE 1 P2ONSITE 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\01H1G001.PLT 33
   PLOTFILE 24 P2ONSITE 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\24H1G001.PLT 34
   PLOTFILE 1 P2IDLE 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\01H1G002.PLT 35
   PLOTFILE 24 P2IDLE 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\24H1G002.PLT 36
   PLOTFILE 1 P2GEN 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\01H1G003.PLT 37
   PLOTFILE 24 P2GEN 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\24H1G003.PLT 38
   PLOTFILE PERIOD ALL ONTARIOEUCLID_P2OPS_PM2_5.AD\PE00GALL.PLT 39
   PLOTFILE PERIOD P2ONSITE ONTARIOEUCLID_P2OPS_PM2_5.AD\PE00G001.PLT 40
   PLOTFILE PERIOD P2IDLE ONTARIOEUCLID_P2OPS_PM2_5.AD\PE00G002.PLT 41
   PLOTFILE PERIOD P2GEN ONTARIOEUCLID_P2OPS_PM2_5.AD\PE00G003.PLT 42
   SUMMFILE OntarioEuclid_P2Ops_PM2_5.sum
OU FINISHED
**
**************************************
** Project Parameters
**************************************
** PROJCTN  CoordinateSystemUTM
** DESCPTN  UTM: Universal Transverse Mercator
** DATUM    World Geodetic System 1984
** DTMRGN   Global Definition
** UNITS    m
** ZONE     11
** ZONEINX  0
**
```

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** Lakes Environmental AERMOD MPI
**
**************************************
**
** AERMOD Input Produced by:
** AERMOD View Ver. 11.2.0
** Lakes Environmental Software Inc.
** Date: 4/5/2023
** File: C:\Lakes\OntarioEuclid_P2Ops_PM2_5\OntarioEuclid_P2Ops_PM2_5.ADI
**
**************************************
**
**
**************************************
** AERMOD Control Pathway
**************************************
**
**
CO STARTING
   TITLEONE Ontario Euclid Phase 2 Ops PM2.5
   MODELOPT DFAULT CONC
   AVERTIME 1 24 PERIOD
   URBANOPT 2035210
   POLLUTID PM_2.5
   RUNORNOT RUN
   ERRORFIL OntarioEuclid_P2Ops_PM2_5.err
CO FINISHED
**
**************************************
** AERMOD Source Pathway
**************************************
**
**
SO STARTING
** Source Location **
** Source ID - Type - X Coord. - Y Coord. **
** ------------------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE40
** DESCRSRC Onsite Driveway 15
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 6.22
** SZINIT = 2.89
** Nodes = 5
** 440245.868, 3762473.161, 216.43, 3.11, 5.58
** 440247.108, 3762331.785, 213.64, 3.11, 5.58
** 440275.011, 3762331.785, 214.40, 3.11, 5.58
** 440274.391, 3762401.853, 214.97, 3.11, 5.58
```

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** 440374.222, 3762403.713, 215.22, 3.11, 5.58
** ----------------------------------------------------------------
   LOCATION L0013572     VOLUME   440245.920 3762467.161 216.26
   LOCATION L0013573     VOLUME   440246.026 3762455.161 215.84
   LOCATION L0013574     VOLUME   440246.131 3762443.162 215.48
   LOCATION L0013575     VOLUME   440246.236 3762431.162 215.15
   LOCATION L0013576     VOLUME   440246.341 3762419.163 214.84
   LOCATION L0013577     VOLUME   440246.447 3762407.163 214.62
   LOCATION L0013578     VOLUME   440246.552 3762395.164 214.41
   LOCATION L0013579     VOLUME   440246.657 3762383.164 214.26
   LOCATION L0013580     VOLUME   440246.763 3762371.165 214.16
   LOCATION L0013581     VOLUME   440246.868 3762359.165 214.05
   LOCATION L0013582     VOLUME   440246.973 3762347.165 213.92
   LOCATION L0013583     VOLUME   440247.078 3762335.166 213.78
   LOCATION L0013584     VOLUME   440255.727 3762331.785 213.97
   LOCATION L0013585     VOLUME   440267.727 3762331.785 214.30
   LOCATION L0013586     VOLUME   440274.969 3762336.501 214.51
   LOCATION L0013587     VOLUME   440274.863 3762348.501 214.61
   LOCATION L0013588     VOLUME   440274.757 3762360.500 214.71
   LOCATION L0013589     VOLUME   440274.651 3762372.500 214.78
   LOCATION L0013590     VOLUME   440274.545 3762384.499 214.86
   LOCATION L0013591     VOLUME   440274.438 3762396.499 214.95
   LOCATION L0013592     VOLUME   440281.036 3762401.977 215.04
   LOCATION L0013593     VOLUME   440293.033 3762402.200 215.13
   LOCATION L0013594     VOLUME   440305.031 3762402.424 215.12
   LOCATION L0013595     VOLUME   440317.029 3762402.647 215.09
   LOCATION L0013596     VOLUME   440329.027 3762402.871 215.09
   LOCATION L0013597     VOLUME   440341.025 3762403.094 215.10
   LOCATION L0013598     VOLUME   440353.023 3762403.318 215.13
   LOCATION L0013599     VOLUME   440365.021 3762403.542 215.17
** End of LINE VOLUME Source ID = SLINE40
** ----------------------------------------------------------------
** Line Source Represented by Adjacent Volume Sources
** LINE VOLUME Source ID = SLINE41
** DESCRSRC PA 2 Idling
** PREFIX
** Length of Side = 12.00
** Configuration = Adjacent
** Emission Rate = 1.0
** Vertical Dimension = 7.32
** SZINIT = 3.40
** Nodes = 2
** 440261.990, 3762476.881, 217.47, 3.66, 5.58
** 440259.509, 3762341.086, 214.24, 3.66, 5.58
** ----------------------------------------------------------------
   LOCATION L0013628     VOLUME   440261.880 3762470.882 216.82
   LOCATION L0013629     VOLUME   440261.661 3762458.884 216.16
   LOCATION L0013630     VOLUME   440261.442 3762446.886 215.67
   LOCATION L0013631     VOLUME   440261.223 3762434.888 215.38
   LOCATION L0013632     VOLUME   440261.003 3762422.890 215.08
   LOCATION L0013633     VOLUME   440260.784 3762410.892 214.92
```

```
   LOCATION L0013634     VOLUME   440260.565 3762398.894 214.76
   LOCATION L0013635     VOLUME   440260.346 3762386.896 214.62
   LOCATION L0013636     VOLUME   440260.127 3762374.898 214.52
   LOCATION L0013637     VOLUME   440259.908 3762362.900 214.42
   LOCATION L0013638     VOLUME   440259.689 3762350.902 214.29
** End of LINE VOLUME Source ID = SLINE41
   LOCATION PAREA4       AREAPOLY   440194.402  3762471.300      216.050
** DESCRSRC Generator P2
** Source Parameters **
** LINE VOLUME Source ID = SLINE40
   SRCPARAM L0013572     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013573     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013574     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013575     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013576     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013577     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013578     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013579     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013580     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013581     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013582     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013583     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013584     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013585     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013586     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013587     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013588     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013589     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013590     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013591     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013592     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013593     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013594     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013595     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013596     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013597     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013598     0.0357142857      3.11      5.58      2.89
   SRCPARAM L0013599     0.0357142857      3.11      5.58      2.89
** ----------------------------------------------------------------
** LINE VOLUME Source ID = SLINE41
   SRCPARAM L0013628     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013629     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013630     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013631     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013632     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013633     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013634     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013635     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013636     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013637     0.0909090909      3.66      5.58      3.40
   SRCPARAM L0013638     0.0909090909      3.66      5.58      3.40
```

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** ------------------------------------------------------------------
   SRCPARAM PAREA4       0.000049824     5.000         5
   AREAVERT PAREA4       440194.402 3762471.300 440340.118 3762473.161
   AREAVERT PAREA4       440342.598 3762333.645 440201.843 3762331.165
   AREAVERT PAREA4       440193.782 3762474.401
   URBANSRC ALL

** Variable Emissions Type: "By Hour / Seven Days (HRDOW7)"
** Variable Emission Scenario: "Generator"
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   EMISFACT PAREA4       HRDOW7 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
   SRCGROUP P2ONSITE L0013572 L0013573 L0013574 L0013575 L0013576 L0013577
   SRCGROUP P2ONSITE L0013578 L0013579 L0013580 L0013581 L0013582 L0013583
   SRCGROUP P2ONSITE L0013584 L0013585 L0013586 L0013587 L0013588 L0013589
   SRCGROUP P2ONSITE L0013590 L0013591 L0013592 L0013593 L0013594 L0013595
   SRCGROUP P2ONSITE L0013596 L0013597 L0013598 L0013599
   SRCGROUP P2IDLE   L0013628 L0013629 L0013630 L0013631 L0013632 L0013633
   SRCGROUP P2IDLE   L0013634 L0013635 L0013636 L0013637 L0013638
   SRCGROUP P2GEN    PAREA4
   SRCGROUP ALL
SO FINISHED
**
**************************************
** AERMOD Receptor Pathway
**************************************
**
**
RE STARTING
   INCLUDED OntarioEuclid_P2Ops_PM2_5.rou
RE FINISHED
**
**************************************
```

```
** AERMOD Meteorology Pathway
**************************************
**
**
ME STARTING
   SURFFILE KCNO_v9.SFC
   PROFFILE KCNO_v9.PFL
   SURFDATA 3179 2012
   UAIRDATA 3190 2012
   PROFBASE 198.0 METERS
ME FINISHED
**
**************************************
** AERMOD Output Pathway
**************************************
**
**
OU STARTING
   RECTABLE ALLAVE 1ST
   RECTABLE 1 1ST
   RECTABLE 24 1ST
** Auto-Generated Plotfiles
   PLOTFILE 1 ALL 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\01H1GALL.PLT 31
   PLOTFILE 24 ALL 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\24H1GALL.PLT 32
   PLOTFILE 1 P2ONSITE 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\01H1G001.PLT 33
   PLOTFILE 24 P2ONSITE 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\24H1G001.PLT 34
   PLOTFILE 1 P2IDLE 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\01H1G002.PLT 35
   PLOTFILE 24 P2IDLE 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\24H1G002.PLT 36
   PLOTFILE 1 P2GEN 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\01H1G003.PLT 37
   PLOTFILE 24 P2GEN 1ST ONTARIOEUCLID_P2OPS_PM2_5.AD\24H1G003.PLT 38
   PLOTFILE PERIOD ALL ONTARIOEUCLID_P2OPS_PM2_5.AD\PE00GALL.PLT 39
   PLOTFILE PERIOD P2ONSITE ONTARIOEUCLID_P2OPS_PM2_5.AD\PE00G001.PLT 40
   PLOTFILE PERIOD P2IDLE ONTARIOEUCLID_P2OPS_PM2_5.AD\PE00G002.PLT 41
   PLOTFILE PERIOD P2GEN ONTARIOEUCLID_P2OPS_PM2_5.AD\PE00G003.PLT 42
   SUMMFILE OntarioEuclid_P2Ops_PM2_5.sum
OU FINISHED


  *** Message Summary For AERMOD Model Setup ***

  --------- Summary of Total Messages --------

 A Total of            0 Fatal Error Message(s)
 A Total of            2 Warning Message(s)
 A Total of            0 Informational Message(s)


    ******** FATAL ERROR MESSAGES ********
               ***  NONE  ***
```

```
   ********   WARNING MESSAGES   ********
 ME W186     214       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
     0.50
 ME W187     214       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


 **********************************
 *** SETUP Finishes Successfully ***
 **********************************

 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       20:40:17

                                   PAGE   1
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                              ***     MODEL SETUP OPTIONS SUMMARY
 ***
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - -

 **Model Is Setup For Calculation of Average CONCentration Values.

   --  DEPOSITION LOGIC  --
 **NO GAS DEPOSITION Data Provided.
 **NO PARTICLE DEPOSITION Data Provided.
 **Model Uses NO DRY DEPLETION.  DRYDPLT  =  F
 **Model Uses NO WET DEPLETION.  WETDPLT  =  F

 **Model Uses URBAN Dispersion Algorithm for the SBL for    40 Source(s),
   for Total of    1 Urban Area(s):
   Urban Population =   2035210.0 ;  Urban Roughness Length =  1.000 m

 **Model Uses Regulatory DEFAULT Options:
        1. Stack-tip Downwash.
        2. Model Accounts for ELEVated Terrain Effects.
        3. Use Calms Processing Routine.
        4. Use Missing Data Processing Routine.
        5. No Exponential Decay.
        6. Urban Roughness Length of 1.0 Meter Assumed.

 **Other Options Specified:
        ADJ_U*   - Use ADJ_U* option for SBL in AERMET
        CCVR_Sub - Meteorological data includes CCVR substitutions
        TEMP_Sub - Meteorological data includes TEMP substitutions

 **Model Assumes No FLAGPOLE Receptor Heights.

 **The User Specified a Pollutant Type of:  PM_2.5
```

```
 **Model Calculates  2 Short Term Average(s) of:   1-HR  24-HR
    and Calculates PERIOD Averages

 **This Run Includes:     40 Source(s);       4 Source Group(s); and     528
Receptor(s)

               with:      0 POINT(s), including
                          0 POINTCAP(s) and      0 POINTHOR(s)
                and:     39 VOLUME source(s)
                and:      1 AREA type source(s)
                and:      0 LINE source(s)
                and:      0 RLINE/RLINEXT source(s)
                and:      0 OPENPIT source(s)
                and:      0 BUOYANT LINE source(s) with a total of     0 line(s)


 **Model Set To Continue RUNning After the Setup Testing.

 **The AERMET Input Meteorological Data Version Date:  16216

 **Output Options Selected:
         Model Outputs Tables of PERIOD Averages by Receptor
         Model Outputs Tables of Highest Short Term Values by Receptor (RECTABLE
Keyword)
         Model Outputs External File(s) of High Values for Plotting (PLOTFILE
Keyword)
         Model Outputs Separate Summary File of High Ranked Values (SUMMFILE
Keyword)

 **NOTE:  The Following Flags May Appear Following CONC Values:  c for Calm Hours
                                                                 m for Missing Hours
                                                                 b for Both Calm and
Missing Hours

 **Misc. Inputs:  Base Elev. for Pot. Temp. Profile (m MSL) =   198.00 ;  Decay
Coef. =    0.000     ;  Rot. Angle =     0.0
                 Emission Units = GRAMS/SEC                                ;
Emission Rate Unit Factor =   0.10000E+07
                 Output Units   = MICROGRAMS/M**3

 **Approximate Storage Requirements of Model =      3.8 MB of RAM.

 **Input Runstream File:          aermod.inp

 **Output Print File:             aermod.out


 **Detailed Error/Message File:   OntarioEuclid_P2Ops_PM2_5.err

 **File for Summary of Results:   OntarioEuclid_P2Ops_PM2_5.sum
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** VOLUME SOURCE DATA ***

SOURCE ID	NUMBER EMISSION RATE PART. SCALAR VARY BY CATS.	EMISSION RATE (GRAMS/SEC)	X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	INIT. SY (METERS)	INIT. SZ (METERS)	URBAN SOURCE
L0013572	0	0.35714E-01	440245.9	3762467.2	216.3	3.11	5.58	2.89	YES
L0013573	0	0.35714E-01	440246.0	3762455.2	215.8	3.11	5.58	2.89	YES
L0013574	0	0.35714E-01	440246.1	3762443.2	215.5	3.11	5.58	2.89	YES
L0013575	0	0.35714E-01	440246.2	3762431.2	215.2	3.11	5.58	2.89	YES
L0013576	0	0.35714E-01	440246.3	3762419.2	214.8	3.11	5.58	2.89	YES
L0013577	0	0.35714E-01	440246.4	3762407.2	214.6	3.11	5.58	2.89	YES
L0013578	0	0.35714E-01	440246.6	3762395.2	214.4	3.11	5.58	2.89	YES
L0013579	0	0.35714E-01	440246.7	3762383.2	214.3	3.11	5.58	2.89	YES
L0013580	0	0.35714E-01	440246.8	3762371.2	214.2	3.11	5.58	2.89	YES
L0013581	0	0.35714E-01	440246.9	3762359.2	214.1	3.11	5.58	2.89	YES
L0013582	0	0.35714E-01	440247.0	3762347.2	213.9	3.11	5.58	2.89	YES
L0013583	0	0.35714E-01	440247.1	3762335.2	213.8	3.11	5.58	2.89	YES
L0013584	0	0.35714E-01	440255.7	3762331.8	214.0	3.11	5.58	2.89	YES
L0013585	0	0.35714E-01	440267.7	3762331.8	214.3	3.11	5.58	2.89	YES
L0013586	0	0.35714E-01	440275.0	3762336.5	214.5	3.11	5.58	2.89	YES

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 L0013587         0   0.35714E-01  440274.9 3762348.5   214.6     3.11     5.58
2.89     YES
 L0013588         0   0.35714E-01  440274.8 3762360.5   214.7     3.11     5.58
2.89     YES
 L0013589         0   0.35714E-01  440274.7 3762372.5   214.8     3.11     5.58
2.89     YES
 L0013590         0   0.35714E-01  440274.5 3762384.5   214.9     3.11     5.58
2.89     YES
 L0013591         0   0.35714E-01  440274.4 3762396.5   215.0     3.11     5.58
2.89     YES
 L0013592         0   0.35714E-01  440281.0 3762402.0   215.0     3.11     5.58
2.89     YES
 L0013593         0   0.35714E-01  440293.0 3762402.2   215.1     3.11     5.58
2.89     YES
 L0013594         0   0.35714E-01  440305.0 3762402.4   215.1     3.11     5.58
2.89     YES
 L0013595         0   0.35714E-01  440317.0 3762402.6   215.1     3.11     5.58
2.89     YES
 L0013596         0   0.35714E-01  440329.0 3762402.9   215.1     3.11     5.58
2.89     YES
 L0013597         0   0.35714E-01  440341.0 3762403.1   215.1     3.11     5.58
2.89     YES
 L0013598         0   0.35714E-01  440353.0 3762403.3   215.1     3.11     5.58
2.89     YES
 L0013599         0   0.35714E-01  440365.0 3762403.5   215.2     3.11     5.58
2.89     YES
 L0013628         0   0.90909E-01  440261.9 3762470.9   216.8     3.66     5.58
3.40     YES
 L0013629         0   0.90909E-01  440261.7 3762458.9   216.2     3.66     5.58
3.40     YES
 L0013630         0   0.90909E-01  440261.4 3762446.9   215.7     3.66     5.58
3.40     YES
 L0013631         0   0.90909E-01  440261.2 3762434.9   215.4     3.66     5.58
3.40     YES
 L0013632         0   0.90909E-01  440261.0 3762422.9   215.1     3.66     5.58
3.40     YES
 L0013633         0   0.90909E-01  440260.8 3762410.9   214.9     3.66     5.58
3.40     YES
 L0013634         0   0.90909E-01  440260.6 3762398.9   214.8     3.66     5.58
3.40     YES
 L0013635         0   0.90909E-01  440260.3 3762386.9   214.6     3.66     5.58
3.40     YES
 L0013636         0   0.90909E-01  440260.1 3762374.9   214.5     3.66     5.58
3.40     YES
 L0013637         0   0.90909E-01  440259.9 3762362.9   214.4     3.66     5.58
3.40     YES
 L0013638         0   0.90909E-01  440259.7 3762350.9   214.3     3.66     5.58
3.40     YES
*** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                            ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
```

*** AREAPOLY SOURCE DATA ***

SOURCE ID	NUMBER PART. CATS.	EMISSION RATE (GRAMS/SEC /METER**2)	LOCATION OF AREA X (METERS)	Y (METERS)	BASE ELEV. (METERS)	RELEASE HEIGHT (METERS)	NUMBER OF VERTS.	INIT. SZ	URBAN SOURCE	EMISSION RATE SCALAR VARY BY
PAREA4	0	0.49824E-04	440194.4	3762471.3	216.1	5.00	5	0.00	YES	HRDOW7

*** SOURCE IDs DEFINING SOURCE GROUPS ***

SRCGROUP ID	SOURCE IDs
P2ONSITE	L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,
P2IDLE	L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,
P2GEN	PAREA4 ,

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  ALL        L0013572    , L0013573    , L0013574    , L0013575    , L0013576    ,
L0013577    , L0013578    , L0013579    ,

             L0013580    , L0013581    , L0013582    , L0013583    , L0013584    ,
L0013585    , L0013586    , L0013587    ,

             L0013588    , L0013589    , L0013590    , L0013591    , L0013592    ,
L0013593    , L0013594    , L0013595    ,

             L0013596    , L0013597    , L0013598    , L0013599    , L0013628    ,
L0013629    , L0013630    , L0013631    ,

             L0013632    , L0013633    , L0013634    , L0013635    , L0013636    ,
L0013637    , L0013638    , PAREA4      ,
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 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*


                                          *** SOURCE IDs DEFINED AS URBAN SOURCES
***

  URBAN ID   URBAN POP                                    SOURCE IDs
  --------   ---------                                    ----------


              2035210.   L0013572    , L0013573    , L0013574    , L0013575    ,
L0013576    , L0013577    , L0013578    ,
 L0013579    ,

             L0013580    , L0013581    , L0013582    , L0013583    , L0013584    ,
L0013585    , L0013586    , L0013587    ,

             L0013588    , L0013589    , L0013590    , L0013591    , L0013592    ,
L0013593    , L0013594    , L0013595    ,

             L0013596    , L0013597    , L0013598    , L0013599    , L0013628    ,
L0013629    , L0013630    , L0013631    ,

             L0013632    , L0013633    , L0013634    , L0013635    , L0013636    ,
L0013637    , L0013638    , PAREA4      ,
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

* SOURCE EMISSION RATE SCALARS WHICH VARY DIURNALLY AND BY DAY OF WEEK (HRDOW7) *

SOURCE ID = PAREA4 ; SOURCE TYPE = AREAPOLY :

HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR	HOUR	SCALAR
DAY OF WEEK = MONDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.1000E+01	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = TUESDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = WEDNESDY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = THURSDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = FRIDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00
17	.0000E+00	18	.0000E+00	19	.0000E+00	20	.0000E+00	21	.0000E+00	22	.0000E+00	23	.0000E+00	24	.0000E+00
DAY OF WEEK = SATURDAY															
1	.0000E+00	2	.0000E+00	3	.0000E+00	4	.0000E+00	5	.0000E+00	6	.0000E+00	7	.0000E+00	8	.0000E+00
9	.0000E+00	10	.0000E+00	11	.0000E+00	12	.0000E+00	13	.0000E+00	14	.0000E+00	15	.0000E+00	16	.0000E+00

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(440407.9, 3761497.8, 205.4, 205.4, 0.0); (439943.4, 3761716.3, 206.8, 206.8, 0.0);
(439170.2, 3763092.5, 220.1, 220.1, 0.0); (439220.2, 3763092.5, 220.7, 220.7, 0.0);
(439270.2, 3763092.5, 220.6, 220.6, 0.0); (439320.2, 3763092.5, 220.9, 220.9, 0.0);
(439370.2, 3763092.5, 221.0, 221.0, 0.0); (439420.2, 3763092.5, 220.7, 220.7, 0.0);
(439470.2, 3763092.5, 220.4, 220.4, 0.0); (439520.2, 3763092.5, 220.4, 220.4, 0.0);
(439570.2, 3763092.5, 220.4, 220.4, 0.0); (439620.2, 3763092.5, 220.9, 220.9, 0.0);
(439670.2, 3763092.5, 221.6, 221.6, 0.0); (439720.2, 3763092.5, 221.9, 221.9, 0.0);
(439770.2, 3763092.5, 222.1, 222.1, 0.0); (439820.2, 3763092.5, 222.3, 222.3, 0.0);
(439870.2, 3763092.5, 222.6, 222.6, 0.0); (439170.2, 3763142.5, 220.8, 220.8, 0.0);
(439220.2, 3763142.5, 221.2, 221.2, 0.0); (439270.2, 3763142.5, 221.0, 221.0, 0.0);
(439320.2, 3763142.5, 221.3, 221.3, 0.0); (439370.2, 3763142.5, 221.3, 221.3, 0.0);
(439420.2, 3763142.5, 221.0, 221.0, 0.0); (439470.2, 3763142.5, 221.3, 221.3, 0.0);
(439520.2, 3763142.5, 221.5, 221.5, 0.0); (439570.2, 3763142.5, 221.2, 221.2, 0.0);
(439620.2, 3763142.5, 221.3, 221.3, 0.0); (439670.2, 3763142.5, 222.0, 222.0, 0.0);
(439720.2, 3763142.5, 222.3, 222.3, 0.0); (439770.2, 3763142.5, 222.6, 222.6, 0.0);

```
     ( 439820.2, 3763142.5,     222.9,     222.9,       0.0);         ( 439870.2,
3763142.5,     223.2,     223.2,       0.0);
     ( 439170.2, 3763192.5,     221.4,     221.4,       0.0);         ( 439220.2,
3763192.5,     221.6,     221.6,       0.0);
     ( 439270.2, 3763192.5,     221.3,     221.3,       0.0);         ( 439320.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439370.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439420.2,
3763192.5,     221.3,     221.3,       0.0);
     ( 439470.2, 3763192.5,     221.7,     221.7,       0.0);         ( 439520.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439570.2, 3763192.5,     221.8,     221.8,       0.0);         ( 439620.2,
3763192.5,     221.8,     221.8,       0.0);
     ( 439670.2, 3763192.5,     222.5,     222.5,       0.0);         ( 439720.2,
3763192.5,     223.2,     223.2,       0.0);
     ( 439770.2, 3763192.5,     223.5,     223.5,       0.0);         ( 439820.2,
3763192.5,     223.7,     223.7,       0.0);
     ( 439870.2, 3763192.5,     223.9,     223.9,       0.0);         ( 439170.2,
3763242.5,     222.1,     222.1,       0.0);
     ( 439220.2, 3763242.5,     222.1,     222.1,       0.0);         ( 439270.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439320.2, 3763242.5,     222.0,     222.0,       0.0);         ( 439370.2,
3763242.5,     221.9,     221.9,       0.0);
     ( 439420.2, 3763242.5,     221.9,     221.9,       0.0);         ( 439470.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439520.2, 3763242.5,     222.3,     222.3,       0.0);         ( 439570.2,
3763242.5,     222.3,     222.3,       0.0);
     ( 439620.2, 3763242.5,     222.2,     222.2,       0.0);         ( 439670.2,
3763242.5,     222.8,     222.8,       0.0);
     ( 439720.2, 3763242.5,     223.5,     223.5,       0.0);         ( 439770.2,
3763242.5,     224.0,     224.0,       0.0);
     ( 439820.2, 3763242.5,     224.3,     224.3,       0.0);         ( 439870.2,
3763242.5,     224.5,     224.5,       0.0);
     ( 439170.2, 3763292.5,     222.9,     222.9,       0.0);         ( 439220.2,
3763292.5,     223.4,     223.4,       0.0);
     ( 439270.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439320.2,
3763292.5,     223.0,     223.0,       0.0);
     ( 439370.2, 3763292.5,     222.5,     222.5,       0.0);         ( 439420.2,
3763292.5,     222.9,     222.9,       0.0);
     ( 439470.2, 3763292.5,     223.2,     223.2,       0.0);         ( 439520.2,
3763292.5,     223.5,     223.5,       0.0);
     ( 439570.2, 3763292.5,     223.0,     223.0,       0.0);         ( 439620.2,
3763292.5,     223.1,     223.1,       0.0);
     ( 439670.2, 3763292.5,     223.3,     223.3,       0.0);         ( 439720.2,
3763292.5,     224.0,     224.0,       0.0);
     ( 439770.2, 3763292.5,     224.8,     224.8,       0.0);         ( 439820.2,
3763292.5,     225.1,     225.1,       0.0);
     ( 439870.2, 3763292.5,     225.1,     225.1,       0.0);         ( 439170.2,
3763342.5,     223.6,     223.6,       0.0);
     ( 439220.2, 3763342.5,     224.0,     224.0,       0.0);         ( 439270.2,
3763342.5,     223.5,     223.5,       0.0);
     ( 439320.2, 3763342.5,     223.4,     223.4,       0.0);         ( 439370.2,
```

3763342.5, 223.0, 223.0, 0.0);
(439420.2, 3763342.5, 223.3, 223.3, 0.0); (439470.2, 3763342.5, 223.6, 223.6, 0.0);
(439520.2, 3763342.5, 223.9, 223.9, 0.0); (439570.2, 3763342.5, 223.7, 223.7, 0.0);
(439620.2, 3763342.5, 223.5, 223.5, 0.0); (439670.2, 3763342.5, 223.9, 223.9, 0.0);
(439720.2, 3763342.5, 224.4, 224.4, 0.0); (439770.2, 3763342.5, 225.3, 225.3, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

(439820.2, 3763342.5, 225.6, 225.6, 0.0); (439870.2, 3763342.5, 225.8, 225.8, 0.0);
(439170.2, 3763392.5, 224.3, 224.3, 0.0); (439220.2, 3763392.5, 224.5, 224.5, 0.0);
(439270.2, 3763392.5, 223.9, 223.9, 0.0); (439320.2, 3763392.5, 224.3, 224.3, 0.0);
(439370.2, 3763392.5, 224.0, 224.0, 0.0); (439420.2, 3763392.5, 224.4, 224.4, 0.0);
(439470.2, 3763392.5, 224.7, 224.7, 0.0); (439520.2, 3763392.5, 224.3, 224.3, 0.0);
(439570.2, 3763392.5, 224.2, 224.2, 0.0); (439620.2, 3763392.5, 224.0, 224.0, 0.0);
(439670.2, 3763392.5, 224.5, 224.5, 0.0); (439720.2, 3763392.5, 224.8, 224.8, 0.0);
(439770.2, 3763392.5, 225.6, 225.6, 0.0); (439820.2, 3763392.5, 226.0, 226.0, 0.0);
(439870.2, 3763392.5, 226.3, 226.3, 0.0); (439170.2, 3763442.5, 225.0, 225.0, 0.0);
(439220.2, 3763442.5, 225.1, 225.1, 0.0); (439270.2, 3763442.5, 224.5, 224.5, 0.0);
(439320.2, 3763442.5, 224.5, 224.5, 0.0); (439370.2, 3763442.5, 224.6, 224.6, 0.0);
(439420.2, 3763442.5, 224.7, 224.7, 0.0); (439470.2, 3763442.5, 225.0, 225.0, 0.0);
(439520.2, 3763442.5, 224.7, 224.7, 0.0); (439570.2, 3763442.5, 224.7, 224.7, 0.0);
(439620.2, 3763442.5, 224.6, 224.6, 0.0); (439670.2, 3763442.5, 225.0, 225.0, 0.0);
(439720.2, 3763442.5, 225.4, 225.4, 0.0); (439770.2, 3763442.5, 226.1, 226.1, 0.0);

```
     ( 439820.2, 3763442.5,     226.5,     226.5,       0.0);         ( 439870.2,
3763442.5,     226.7,     226.7,       0.0);
     ( 439203.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439253.2,
3762911.2,     218.6,     218.6,       0.0);
     ( 439303.2, 3762911.2,     218.7,     218.7,       0.0);         ( 439353.2,
3762911.2,     217.9,     217.9,       0.0);
     ( 439403.2, 3762911.2,     218.0,     218.0,       0.0);         ( 439453.2,
3762911.2,     218.3,     218.3,       0.0);
     ( 439503.2, 3762911.2,     218.2,     218.2,       0.0);         ( 439553.2,
3762911.2,     218.5,     218.5,       0.0);
     ( 439203.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439253.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439303.2, 3762961.2,     219.2,     219.2,       0.0);         ( 439353.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439403.2, 3762961.2,     218.8,     218.8,       0.0);         ( 439453.2,
3762961.2,     219.0,     219.0,       0.0);
     ( 439503.2, 3762961.2,     218.7,     218.7,       0.0);         ( 439553.2,
3762961.2,     218.9,     218.9,       0.0);
     ( 439203.2, 3763011.2,     219.6,     219.6,       0.0);         ( 439253.2,
3763011.2,     219.7,     219.7,       0.0);
     ( 439303.2, 3763011.2,     219.9,     219.9,       0.0);         ( 439353.2,
3763011.2,     220.0,     220.0,       0.0);
     ( 439403.2, 3763011.2,     219.2,     219.2,       0.0);         ( 439453.2,
3763011.2,     219.4,     219.4,       0.0);
     ( 439503.2, 3763011.2,     219.1,     219.1,       0.0);         ( 439553.2,
3763011.2,     219.5,     219.5,       0.0);
     ( 439203.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439253.2,
3763061.2,     220.5,     220.5,       0.0);
     ( 439303.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439353.2,
3763061.2,     220.8,     220.8,       0.0);
     ( 439403.2, 3763061.2,     220.6,     220.6,       0.0);         ( 439453.2,
3763061.2,     220.4,     220.4,       0.0);
     ( 439503.2, 3763061.2,     220.1,     220.1,       0.0);         ( 439553.2,
3763061.2,     220.3,     220.3,       0.0);
     ( 439196.0, 3762392.5,     212.6,     212.6,       0.0);         ( 439246.0,
3762392.5,     212.7,     212.7,       0.0);
     ( 439296.0, 3762392.5,     212.7,     212.7,       0.0);         ( 439346.0,
3762392.5,     212.6,     212.6,       0.0);
     ( 439396.0, 3762392.5,     212.5,     212.5,       0.0);         ( 439446.0,
3762392.5,     212.2,     212.2,       0.0);
     ( 439496.0, 3762392.5,     212.2,     212.2,       0.0);         ( 439546.0,
3762392.5,     212.5,     212.5,       0.0);
     ( 439196.0, 3762442.5,     213.1,     213.1,       0.0);         ( 439246.0,
3762442.5,     213.1,     213.1,       0.0);
     ( 439296.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439346.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439396.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439446.0,
3762442.5,     213.5,     213.5,       0.0);
     ( 439496.0, 3762442.5,     213.5,     213.5,       0.0);         ( 439546.0,
3762442.5,     213.4,     213.4,       0.0);
     ( 439196.0, 3762492.5,     213.6,     213.6,       0.0);         ( 439246.0,
```

3762492.5,   213.5,   213.5,   0.0);
     (439296.0, 3762492.5,   213.7,   213.7,   0.0);   (439346.0,
3762492.5,   214.0,   214.0,   0.0);
     (439396.0, 3762492.5,   213.9,   213.9,   0.0);   (439446.0,
3762492.5,   213.9,   213.9,   0.0);
     (439496.0, 3762492.5,   214.2,   214.2,   0.0);   (439546.0,
3762492.5,   214.4,   214.4,   0.0);
     (439196.0, 3762542.5,   214.1,   214.1,   0.0);   (439246.0,
3762542.5,   213.8,   213.8,   0.0);

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                                *** DISCRETE CARTESIAN RECEPTORS ***
                                               (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                          (METERS)

     (439296.0, 3762542.5,   214.0,   214.0,   0.0);   (439346.0,
3762542.5,   214.0,   214.0,   0.0);
     (439396.0, 3762542.5,   214.2,   214.2,   0.0);   (439446.0,
3762542.5,   214.2,   214.2,   0.0);
     (439496.0, 3762542.5,   214.7,   214.7,   0.0);   (439546.0,
3762542.5,   214.7,   214.7,   0.0);
     (439196.0, 3762592.5,   214.6,   214.6,   0.0);   (439246.0,
3762592.5,   214.8,   214.8,   0.0);
     (439296.0, 3762592.5,   214.7,   214.7,   0.0);   (439346.0,
3762592.5,   214.4,   214.4,   0.0);
     (439396.0, 3762592.5,   214.4,   214.4,   0.0);   (439446.0,
3762592.5,   214.5,   214.5,   0.0);
     (439496.0, 3762592.5,   215.1,   215.1,   0.0);   (439546.0,
3762592.5,   215.2,   215.2,   0.0);
     (439196.0, 3762642.5,   215.1,   215.1,   0.0);   (439246.0,
3762642.5,   215.4,   215.4,   0.0);
     (439296.0, 3762642.5,   214.9,   214.9,   0.0);   (439346.0,
3762642.5,   214.4,   214.4,   0.0);
     (439396.0, 3762642.5,   214.6,   214.6,   0.0);   (439446.0,
3762642.5,   214.8,   214.8,   0.0);
     (439496.0, 3762642.5,   215.5,   215.5,   0.0);   (439546.0,
3762642.5,   215.6,   215.6,   0.0);
     (439196.0, 3762692.5,   215.8,   215.8,   0.0);   (439246.0,
3762692.5,   215.8,   215.8,   0.0);
     (439296.0, 3762692.5,   215.9,   215.9,   0.0);   (439346.0,
3762692.5,   215.7,   215.7,   0.0);
     (439396.0, 3762692.5,   215.1,   215.1,   0.0);   (439446.0,
3762692.5,   215.3,   215.3,   0.0);
     (439496.0, 3762692.5,   215.9,   215.9,   0.0);   (439546.0,
3762692.5,   216.1,   216.1,   0.0);

```
     ( 439196.0, 3762742.5,     216.5,     216.5,       0.0);         ( 439246.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439296.0, 3762742.5,     216.3,     216.3,       0.0);         ( 439346.0,
3762742.5,     216.1,     216.1,       0.0);
     ( 439396.0, 3762742.5,     216.0,     216.0,       0.0);         ( 439446.0,
3762742.5,     216.0,     216.0,       0.0);
     ( 439496.0, 3762742.5,     216.7,     216.7,       0.0);         ( 439546.0,
3762742.5,     216.8,     216.8,       0.0);
     ( 439196.0, 3762792.5,     217.1,     217.1,       0.0);         ( 439246.0,
3762792.5,     216.4,     216.4,       0.0);
     ( 439296.0, 3762792.5,     216.8,     216.8,       0.0);         ( 439346.0,
3762792.5,     216.8,     216.8,       0.0);
     ( 439396.0, 3762792.5,     216.9,     216.9,       0.0);         ( 439446.0,
3762792.5,     216.7,     216.7,       0.0);
     ( 439496.0, 3762792.5,     217.3,     217.3,       0.0);         ( 439546.0,
3762792.5,     217.4,     217.4,       0.0);
     ( 439196.0, 3762842.5,     217.7,     217.7,       0.0);         ( 439246.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439296.0, 3762842.5,     217.0,     217.0,       0.0);         ( 439346.0,
3762842.5,     217.0,     217.0,       0.0);
     ( 439396.0, 3762842.5,     217.2,     217.2,       0.0);         ( 439446.0,
3762842.5,     217.3,     217.3,       0.0);
     ( 439496.0, 3762842.5,     217.9,     217.9,       0.0);         ( 439546.0,
3762842.5,     218.0,     218.0,       0.0);
     ( 439573.3, 3762470.5,     213.7,     213.7,       0.0);         ( 439623.3,
3762470.5,     214.1,     214.1,       0.0);
     ( 439673.3, 3762470.5,     214.2,     214.2,       0.0);         ( 439723.3,
3762470.5,     214.3,     214.3,       0.0);
     ( 439773.3, 3762470.5,     214.4,     214.4,       0.0);         ( 439823.3,
3762470.5,     214.4,     214.4,       0.0);
     ( 439873.3, 3762470.5,     214.7,     214.7,       0.0);         ( 439573.3,
3762520.5,     214.3,     214.3,       0.0);
     ( 439623.3, 3762520.5,     214.5,     214.5,       0.0);         ( 439673.3,
3762520.5,     214.8,     214.8,       0.0);
     ( 439723.3, 3762520.5,     215.1,     215.1,       0.0);         ( 439773.3,
3762520.5,     215.1,     215.1,       0.0);
     ( 439823.3, 3762520.5,     214.8,     214.8,       0.0);         ( 439873.3,
3762520.5,     215.2,     215.2,       0.0);
     ( 439573.3, 3762570.5,     214.8,     214.8,       0.0);         ( 439623.3,
3762570.5,     215.0,     215.0,       0.0);
     ( 439673.3, 3762570.5,     215.4,     215.4,       0.0);         ( 439723.3,
3762570.5,     215.5,     215.5,       0.0);
     ( 439773.3, 3762570.5,     215.5,     215.5,       0.0);         ( 439823.3,
3762570.5,     215.3,     215.3,       0.0);
     ( 439873.3, 3762570.5,     215.9,     215.9,       0.0);         ( 439573.3,
3762620.5,     215.3,     215.3,       0.0);
     ( 439623.3, 3762620.5,     215.6,     215.6,       0.0);         ( 439673.3,
3762620.5,     215.7,     215.7,       0.0);
     ( 439723.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439773.3,
3762620.5,     215.8,     215.8,       0.0);
     ( 439823.3, 3762620.5,     215.9,     215.9,       0.0);         ( 439873.3,
```

3762620.5,   216.5,   216.5,   0.0);
     (439573.3, 3762670.5,   215.8,   215.8,   0.0);   (439623.3,
3762670.5,   216.5,   216.5,   0.0);
     (439673.3, 3762670.5,   216.5,   216.5,   0.0);   (439723.3,
3762670.5,   216.6,   216.6,   0.0);
     (439773.3, 3762670.5,   216.8,   216.8,   0.0);   (439823.3,
3762670.5,   216.9,   216.9,   0.0);
     (439873.3, 3762670.5,   217.1,   217.1,   0.0);   (439152.3,
3761448.9,   203.3,   203.3,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                      (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439202.3, 3761448.9,   202.5,   202.5,   0.0);   (439252.3,
3761448.9,   202.5,   202.5,   0.0);
     (439302.3, 3761448.9,   202.4,   202.4,   0.0);   (439352.3,
3761448.9,   202.5,   202.5,   0.0);
     (439402.3, 3761448.9,   202.6,   202.6,   0.0);   (439452.3,
3761448.9,   202.6,   202.6,   0.0);
     (439502.3, 3761448.9,   203.1,   203.1,   0.0);   (439552.3,
3761448.9,   203.1,   203.1,   0.0);
     (439152.3, 3761498.9,   204.0,   204.0,   0.0);   (439202.3,
3761498.9,   203.9,   203.9,   0.0);
     (439252.3, 3761498.9,   204.3,   204.3,   0.0);   (439302.3,
3761498.9,   203.6,   203.6,   0.0);
     (439352.3, 3761498.9,   203.2,   203.2,   0.0);   (439402.3,
3761498.9,   202.9,   202.9,   0.0);
     (439452.3, 3761498.9,   202.7,   202.7,   0.0);   (439502.3,
3761498.9,   203.3,   203.3,   0.0);
     (439552.3, 3761498.9,   203.5,   203.5,   0.0);   (439152.3,
3761548.9,   204.7,   204.7,   0.0);
     (439202.3, 3761548.9,   204.3,   204.3,   0.0);   (439252.3,
3761548.9,   204.4,   204.4,   0.0);
     (439302.3, 3761548.9,   203.7,   203.7,   0.0);   (439352.3,
3761548.9,   203.0,   203.0,   0.0);
     (439402.3, 3761548.9,   203.1,   203.1,   0.0);   (439452.3,
3761548.9,   203.0,   203.0,   0.0);
     (439502.3, 3761548.9,   203.2,   203.2,   0.0);   (439552.3,
3761548.9,   203.6,   203.6,   0.0);
     (439152.3, 3761598.9,   205.2,   205.2,   0.0);   (439202.3,
3761598.9,   204.5,   204.5,   0.0);
     (439252.3, 3761598.9,   204.5,   204.5,   0.0);   (439302.3,
3761598.9,   204.2,   204.2,   0.0);

```
     ( 439352.3, 3761598.9,     203.5,     203.5,       0.0);         ( 439402.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439452.3, 3761598.9,     203.8,     203.8,       0.0);         ( 439502.3,
3761598.9,     203.6,     203.6,       0.0);
     ( 439552.3, 3761598.9,     204.0,     204.0,       0.0);         ( 439152.3,
3761648.9,     205.5,     205.5,       0.0);
     ( 439202.3, 3761648.9,     205.1,     205.1,       0.0);         ( 439252.3,
3761648.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761648.9,     204.9,     204.9,       0.0);         ( 439352.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439402.3, 3761648.9,     204.5,     204.5,       0.0);         ( 439452.3,
3761648.9,     204.5,     204.5,       0.0);
     ( 439502.3, 3761648.9,     204.7,     204.7,       0.0);         ( 439552.3,
3761648.9,     204.9,     204.9,       0.0);
     ( 439152.3, 3761698.9,     206.0,     206.0,       0.0);         ( 439202.3,
3761698.9,     205.4,     205.4,       0.0);
     ( 439252.3, 3761698.9,     204.9,     204.9,       0.0);         ( 439302.3,
3761698.9,     205.0,     205.0,       0.0);
     ( 439352.3, 3761698.9,     205.2,     205.2,       0.0);         ( 439402.3,
3761698.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761698.9,     204.8,     204.8,       0.0);         ( 439502.3,
3761698.9,     205.3,     205.3,       0.0);
     ( 439552.3, 3761698.9,     205.7,     205.7,       0.0);         ( 439152.3,
3761748.9,     206.1,     206.1,       0.0);
     ( 439202.3, 3761748.9,     205.8,     205.8,       0.0);         ( 439252.3,
3761748.9,     205.0,     205.0,       0.0);
     ( 439302.3, 3761748.9,     205.2,     205.2,       0.0);         ( 439352.3,
3761748.9,     205.2,     205.2,       0.0);
     ( 439402.3, 3761748.9,     205.4,     205.4,       0.0);         ( 439452.3,
3761748.9,     205.1,     205.1,       0.0);
     ( 439502.3, 3761748.9,     204.8,     204.8,       0.0);         ( 439552.3,
3761748.9,     205.5,     205.5,       0.0);
     ( 439152.3, 3761798.9,     206.4,     206.4,       0.0);         ( 439202.3,
3761798.9,     206.4,     206.4,       0.0);
     ( 439252.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439302.3,
3761798.9,     206.2,     206.2,       0.0);
     ( 439352.3, 3761798.9,     205.6,     205.6,       0.0);         ( 439402.3,
3761798.9,     205.5,     205.5,       0.0);
     ( 439452.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439502.3,
3761798.9,     205.2,     205.2,       0.0);
     ( 439552.3, 3761798.9,     205.9,     205.9,       0.0);         ( 439152.3,
3761848.9,     206.9,     206.9,       0.0);
     ( 439202.3, 3761848.9,     206.7,     206.7,       0.0);         ( 439252.3,
3761848.9,     206.1,     206.1,       0.0);
     ( 439302.3, 3761848.9,     206.2,     206.2,       0.0);         ( 439352.3,
3761848.9,     205.6,     205.6,       0.0);
     ( 439402.3, 3761848.9,     206.3,     206.3,       0.0);         ( 439452.3,
3761848.9,     206.3,     206.3,       0.0);
     ( 439502.3, 3761848.9,     205.5,     205.5,       0.0);         ( 439552.3,
3761848.9,     206.3,     206.3,       0.0);
     ( 439152.3, 3761898.9,     207.6,     207.6,       0.0);         ( 439202.3,
```

3761898.9,   207.2,   207.2,   0.0);
     (439252.3, 3761898.9,   206.5,   206.5,   0.0);   (439302.3,
3761898.9,   207.1,   207.1,   0.0);
     (439352.3, 3761898.9,   206.9,   206.9,   0.0);   (439402.3,
3761898.9,   206.7,   206.7,   0.0);
     (439452.3, 3761898.9,   207.4,   207.4,   0.0);   (439502.3,
3761898.9,   207.4,   207.4,   0.0);
     (439552.3, 3761898.9,   207.6,   207.6,   0.0);   (439152.3,
3761948.9,   208.1,   208.1,   0.0);

                                          *** DISCRETE CARTESIAN RECEPTORS ***
                                       (X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
                                                (METERS)

     (439202.3, 3761948.9,   207.6,   207.6,   0.0);   (439252.3,
3761948.9,   206.9,   206.9,   0.0);
     (439302.3, 3761948.9,   207.6,   207.6,   0.0);   (439352.3,
3761948.9,   207.7,   207.7,   0.0);
     (439402.3, 3761948.9,   207.3,   207.3,   0.0);   (439452.3,
3761948.9,   208.1,   208.1,   0.0);
     (439502.3, 3761948.9,   208.5,   208.5,   0.0);   (439552.3,
3761948.9,   208.8,   208.8,   0.0);
     (439152.3, 3761998.9,   208.6,   208.6,   0.0);   (439202.3,
3761998.9,   207.9,   207.9,   0.0);
     (439252.3, 3761998.9,   207.2,   207.2,   0.0);   (439302.3,
3761998.9,   208.0,   208.0,   0.0);
     (439352.3, 3761998.9,   208.5,   208.5,   0.0);   (439402.3,
3761998.9,   208.0,   208.0,   0.0);
     (439452.3, 3761998.9,   208.2,   208.2,   0.0);   (439502.3,
3761998.9,   208.5,   208.5,   0.0);
     (439552.3, 3761998.9,   208.9,   208.9,   0.0);   (439152.3,
3762048.9,   209.2,   209.2,   0.0);
     (439202.3, 3762048.9,   209.1,   209.1,   0.0);   (439252.3,
3762048.9,   209.0,   209.0,   0.0);
     (439302.3, 3762048.9,   209.0,   209.0,   0.0);   (439352.3,
3762048.9,   209.0,   209.0,   0.0);
     (439402.3, 3762048.9,   208.7,   208.7,   0.0);   (439452.3,
3762048.9,   209.0,   209.0,   0.0);
     (439502.3, 3762048.9,   209.2,   209.2,   0.0);   (439552.3,
3762048.9,   209.4,   209.4,   0.0);
     (439616.6, 3761420.6,   202.8,   202.8,   0.0);   (439666.6,
3761420.6,   203.2,   203.2,   0.0);
     (439716.6, 3761420.6,   203.4,   203.4,   0.0);   (439766.6,
3761420.6,   203.6,   203.6,   0.0);

```
     ( 439816.6, 3761420.6,     203.5,     203.5,       0.0);         ( 439866.6,
3761420.6,     203.8,     203.8,       0.0);
     ( 439616.6, 3761470.6,     203.2,     203.2,       0.0);         ( 439666.6,
3761470.6,     203.4,     203.4,       0.0);
     ( 439716.6, 3761470.6,     203.6,     203.6,       0.0);         ( 439766.6,
3761470.6,     203.8,     203.8,       0.0);
     ( 439816.6, 3761470.6,     203.7,     203.7,       0.0);         ( 439866.6,
3761470.6,     204.3,     204.3,       0.0);
     ( 439616.6, 3761520.6,     203.5,     203.5,       0.0);         ( 439666.6,
3761520.6,     203.7,     203.7,       0.0);
     ( 439716.6, 3761520.6,     204.0,     204.0,       0.0);         ( 439766.6,
3761520.6,     204.4,     204.4,       0.0);
     ( 439816.6, 3761520.6,     204.5,     204.5,       0.0);         ( 439866.6,
3761520.6,     204.9,     204.9,       0.0);
     ( 439616.6, 3761570.6,     204.1,     204.1,       0.0);         ( 439666.6,
3761570.6,     204.4,     204.4,       0.0);
     ( 439716.6, 3761570.6,     204.7,     204.7,       0.0);         ( 439766.6,
3761570.6,     205.2,     205.2,       0.0);
     ( 439816.6, 3761570.6,     205.4,     205.4,       0.0);         ( 439866.6,
3761570.6,     205.5,     205.5,       0.0);
     ( 440451.1, 3762893.8,     220.7,     220.7,       0.0);         ( 440501.1,
3762893.8,     220.6,     220.6,       0.0);
     ( 440551.1, 3762893.8,     220.3,     220.3,       0.0);         ( 440601.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440651.1, 3762893.8,     220.5,     220.5,       0.0);         ( 440701.1,
3762893.8,     220.5,     220.5,       0.0);
     ( 440751.1, 3762893.8,     220.2,     220.2,       0.0);         ( 440801.1,
3762893.8,     220.2,     220.2,       0.0);
     ( 440851.1, 3762893.8,     219.8,     219.8,       0.0);         ( 440451.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 440501.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440551.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440601.1, 3762943.8,     221.3,     221.3,       0.0);         ( 440651.1,
3762943.8,     221.1,     221.1,       0.0);
     ( 440701.1, 3762943.8,     221.0,     221.0,       0.0);         ( 440751.1,
3762943.8,     220.5,     220.5,       0.0);
     ( 440801.1, 3762943.8,     220.8,     220.8,       0.0);         ( 440851.1,
3762943.8,     221.2,     221.2,       0.0);
     ( 441116.7, 3763135.3,     223.3,     223.3,       0.0);         ( 441166.7,
3763135.3,     222.9,     222.9,       0.0);
     ( 441116.7, 3763185.3,     223.9,     223.9,       0.0);         ( 441166.7,
3763185.3,     223.5,     223.5,       0.0);
     ( 441116.7, 3763235.3,     224.2,     224.2,       0.0);         ( 441166.7,
3763235.3,     223.9,     223.9,       0.0);
     ( 441116.7, 3763285.3,     225.2,     225.2,       0.0);         ( 441166.7,
3763285.3,     224.6,     224.6,       0.0);
     ( 441116.7, 3763335.3,     225.8,     225.8,       0.0);         ( 441166.7,
3763335.3,     225.4,     225.4,       0.0);
     ( 441116.7, 3763385.3,     226.3,     226.3,       0.0);         ( 441166.7,
3763385.3,     226.3,     226.3,       0.0);
     ( 441116.7, 3763435.3,     227.0,     227.0,       0.0);         ( 441166.7,
```

3763435.3, 226.8, 226.8, 0.0);
 (440433.4, 3762815.1, 219.6, 219.6, 0.0); (440483.4,
3762815.1, 219.4, 219.4, 0.0);
 (440533.4, 3762815.1, 219.2, 219.2, 0.0); (440583.4,
3762815.1, 219.4, 219.4, 0.0);
 (440633.4, 3762815.1, 219.3, 219.3, 0.0); (440683.4,
3762815.1, 219.2, 219.2, 0.0);
 (440733.4, 3762815.1, 219.4, 219.4, 0.0); (440783.4,
3762815.1, 219.2, 219.2, 0.0);

*** DISCRETE CARTESIAN RECEPTORS ***
(X-COORD, Y-COORD, ZELEV, ZHILL, ZFLAG)
(METERS)

 (440833.4, 3762815.1, 219.4, 219.4, 0.0); (440883.4,
3762815.1, 219.5, 219.5, 0.0);
 (440933.4, 3762815.1, 219.0, 219.0, 0.0); (440983.4,
3762815.1, 218.8, 218.8, 0.0);
 (440433.4, 3762865.1, 220.3, 220.3, 0.0); (440483.4,
3762865.1, 220.1, 220.1, 0.0);
 (440533.4, 3762865.1, 219.9, 219.9, 0.0); (440583.4,
3762865.1, 219.9, 219.9, 0.0);
 (440633.4, 3762865.1, 220.0, 220.0, 0.0); (440683.4,
3762865.1, 219.9, 219.9, 0.0);
 (440733.4, 3762865.1, 220.0, 220.0, 0.0); (440783.4,
3762865.1, 219.9, 219.9, 0.0);
 (440833.4, 3762865.1, 219.6, 219.6, 0.0); (440883.4,
3762865.1, 219.3, 219.3, 0.0);
 (440933.4, 3762865.1, 219.0, 219.0, 0.0); (440983.4,
3762865.1, 218.9, 218.9, 0.0);
 (441118.3, 3762686.0, 217.2, 217.2, 0.0); (441168.3,
3762686.0, 217.0, 217.0, 0.0);
 (441118.3, 3762736.0, 218.2, 218.2, 0.0); (441168.3,
3762736.0, 217.5, 217.5, 0.0);
 (441118.3, 3762786.0, 218.3, 218.3, 0.0); (441168.3,
3762786.0, 218.0, 218.0, 0.0);
 (441118.3, 3762836.0, 218.4, 218.4, 0.0); (441168.3,
3762836.0, 218.3, 218.3, 0.0);
 (440411.7, 3762093.4, 211.8, 211.8, 0.0); (440461.7,
3762093.4, 211.7, 211.7, 0.0);
 (440511.7, 3762093.4, 211.8, 211.8, 0.0); (440561.7,
3762093.4, 211.8, 211.8, 0.0);
 (440611.7, 3762093.4, 211.6, 211.6, 0.0); (440411.7,
3762143.4, 212.7, 212.7, 0.0);

```
     ( 440461.7, 3762143.4,     212.3,     212.3,       0.0);         ( 440511.7,
3762143.4,     212.5,     212.5,       0.0);
     ( 440561.7, 3762143.4,     212.2,     212.2,       0.0);         ( 440611.7,
3762143.4,     212.4,     212.4,       0.0);
     ( 440406.6, 3762008.9,     210.5,     210.5,       0.0);         ( 440456.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440506.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440556.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440606.6, 3762008.9,     210.7,     210.7,       0.0);         ( 440656.6,
3762008.9,     210.7,     210.7,       0.0);
     ( 440706.6, 3762008.9,     210.8,     210.8,       0.0);         ( 440756.6,
3762008.9,     211.0,     211.0,       0.0);
     ( 440806.6, 3762008.9,     210.4,     210.4,       0.0);         ( 440856.6,
3762008.9,     210.6,     210.6,       0.0);
     ( 440906.6, 3762008.9,     211.3,     211.3,       0.0);         ( 440956.6,
3762008.9,     211.2,     211.2,       0.0);
     ( 441006.6, 3762008.9,     211.1,     211.1,       0.0);         ( 441056.6,
3762008.9,     210.5,     210.5,       0.0);
     ( 441106.6, 3762008.9,     210.4,     210.4,       0.0);         ( 441156.6,
3762008.9,     210.4,     210.4,       0.0);
     ( 440406.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440456.6,
3762058.9,     211.2,     211.2,       0.0);
     ( 440506.6, 3762058.9,     211.3,     211.3,       0.0);         ( 440556.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 440606.6, 3762058.9,     211.2,     211.2,       0.0);         ( 440656.6,
3762058.9,     211.4,     211.4,       0.0);
     ( 440706.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440756.6,
3762058.9,     212.0,     212.0,       0.0);
     ( 440806.6, 3762058.9,     211.4,     211.4,       0.0);         ( 440856.6,
3762058.9,     211.5,     211.5,       0.0);
     ( 440906.6, 3762058.9,     211.8,     211.8,       0.0);         ( 440956.6,
3762058.9,     211.7,     211.7,       0.0);
     ( 441006.6, 3762058.9,     211.5,     211.5,       0.0);         ( 441056.6,
3762058.9,     211.3,     211.3,       0.0);
     ( 441106.6, 3762058.9,     211.1,     211.1,       0.0);         ( 441156.6,
3762058.9,     211.1,     211.1,       0.0);
     ( 440191.4, 3762138.4,     211.5,     211.5,       0.0);         ( 440241.4,
3762138.4,     211.7,     211.7,       0.0);
     ( 440291.4, 3762138.4,     212.0,     212.0,       0.0);         ( 440341.4,
3762138.4,     211.6,     211.6,       0.0);
     ( 440191.4, 3762188.4,     212.6,     212.6,       0.0);         ( 440241.4,
3762188.4,     211.8,     211.8,       0.0);
     ( 440291.4, 3762188.4,     213.1,     213.1,       0.0);         ( 440341.4,
3762188.4,     213.1,     213.1,       0.0);
     ( 440191.4, 3762238.4,     213.2,     213.2,       0.0);         ( 440241.4,
3762238.4,     212.4,     212.4,       0.0);
     ( 440291.4, 3762238.4,     213.8,     213.8,       0.0);         ( 440341.4,
3762238.4,     213.6,     213.6,       0.0);
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                           ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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*** METEOROLOGICAL DAYS SELECTED FOR PROCESSING ***

(1=YES; 0=NO)

```
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1   1 1 1
1 1 1 1 1 1 1   1 1 1 1 1 1 1 1 1 1
          1 1 1 1 1 1 1 1 1 1   1 1 1 1 1 1
```

NOTE: METEOROLOGICAL DATA ACTUALLY PROCESSED WILL ALSO DEPEND ON WHAT IS INCLUDED IN THE DATA FILE.

*** UPPER BOUND OF FIRST THROUGH FIFTH WIND SPEED CATEGORIES ***

(METERS/SEC)

1.54, 3.09, 5.14, 8.23, 10.80,

*** UP TO THE FIRST 24 HOURS OF METEOROLOGICAL DATA ***

Surface file: KCNO_v9.SFC
Met Version: 16216
Profile file: KCNO_v9.PFL

Surface format: FREE

Profile format: FREE

Surface station no.: 3179 Upper air station no.: 3190
Name: UNKNOWN Name: UNKNOWN

Year: 2012 Year: 2012

First 24 hours of scalar data

YR	MO	DY	JDY	HR	H0	U*	W*	DT/DZ	ZICNV	ZIMCH	M-O LEN	Z0	BOWEN	ALBEDO	REF WS	WD	HT	REF TA	HT
12	01	01	1	01	-2.3	0.067	-9.000	-9.000	-999.	41.	11.2	0.09	0.74	1.00	0.73	313.	7.9	279.2	2.0
12	01	01	1	02	-2.7	0.070	-9.000	-9.000	-999.	44.	11.3	0.09	0.74	1.00	0.80	342.	7.9	280.9	2.0
12	01	01	1	03	-5.6	0.098	-9.000	-9.000	-999.	73.	14.7	0.09	0.74	1.00	1.20	9.	7.9	281.4	2.0
12	01	01	1	04	-3.5	0.078	-9.000	-9.000	-999.	52.	11.9	0.09	0.74	1.00	0.94	21.	7.9	282.0	2.0
12	01	01	1	05	-8.4	0.119	-9.000	-9.000	-999.	99.	18.1	0.09	0.74	1.00	1.45	353.	7.9	279.9	2.0
12	01	01	1	06	-7.6	0.113	-9.000	-9.000	-999.	91.	17.0	0.09	0.74	1.00	1.38	325.	7.9	277.5	2.0
12	01	01	1	07	-8.0	0.117	-9.000	-9.000	-999.	96.	17.7	0.09	0.74	1.00	1.42	313.	7.9	281.4	2.0
12	01	01	1	08	-5.2	0.101	-9.000	-9.000	-999.	77.	17.5	0.09	0.74	0.53	1.23	19.	7.9	280.9	2.0
12	01	01	1	09	23.2	0.117	0.267	0.012	29.	97.	-6.2	0.09	0.74	0.31	0.96	318.	7.9	287.5	2.0
12	01	01	1	10	65.2	0.101	0.531	0.014	82.	77.	-1.4	0.09	0.74	0.24	0.63	244.	7.9	291.4	2.0
12	01	01	1	11	95.5	0.162	0.778	0.008	176.	156.	-4.0	0.09	0.74	0.21	1.23	91.	7.9	296.4	2.0
12	01	01	1	12	110.8	0.197	1.018	0.005	338.	209.	-6.1	0.09	0.74	0.20	1.60	90.	7.9	299.9	2.0
12	01	01	1	13	110.5	0.229	1.184	0.005	534.	262.	-9.6	0.09	0.74	0.20	1.98	92.	7.9	302.0	2.0
12	01	01	1	14	94.6	0.185	1.215	0.005	674.	191.	-5.9	0.09	0.74	0.21	1.50	73.	7.9	303.1	2.0
12	01	01	1	15	68.6	0.187	1.184	0.005	858.	194.	-8.4	0.09	0.74	0.25	1.59	64.	7.9	303.1	2.0
12	01	01	1	16	24.9	0.255	0.862	0.005	911.	308.	-58.8	0.09	0.74	0.34	2.61	92.	7.9	300.4	2.0
12	01	01	1	17	-13.7	0.168	-9.000	-9.000	-999.	168.	31.1	0.09	0.74	0.62	1.98	107.	7.9	295.4	2.0
12	01	01	1	18	-26.7	0.279	-9.000	-9.000	-999.	354.	85.6	0.09	0.74	1.00	3.22	134.	7.9	291.4	2.0
12	01	01	1	19	-8.0	0.118	-9.000	-9.000	-999.	120.	18.2	0.09	0.74

```
1.00    1.43   37.    7.9  290.4    2.0
 12 01 01   1 20   -7.7  0.115 -9.000 -9.000 -999.   94.     17.6  0.09   0.74
1.00    1.40   49.    7.9  287.0    2.0
 12 01 01   1 21   -9.7  0.130 -9.000 -9.000 -999.  113.     20.2  0.09   0.74
1.00    1.57   26.    7.9  288.8    2.0
 12 01 01   1 22   -4.8  0.090 -9.000 -9.000 -999.   65.     13.6  0.09   0.74
1.00    1.11   56.    7.9  284.9    2.0
 12 01 01   1 23  -11.5  0.141 -9.000 -9.000 -999.  127.     21.9  0.09   0.74
1.00    1.69   36.    7.9  282.0    2.0
 12 01 01   1 24  -16.9  0.172 -9.000 -9.000 -999.  171.     32.4  0.09   0.74
1.00    2.03   33.    7.9  279.9    2.0


 First hour of profile data
 YR MO DY HR HEIGHT F  WDIR    WSPD AMB_TMP sigmaA  sigmaW  sigmaV
 12 01 01 01    7.9 1  313.    0.73   279.3   99.0  -99.00  -99.00

 F indicates top of profile (=1) or below (=0)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       20:40:17

                                   PAGE  15
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         440407.86    3761497.84        1.43416                      439943.36
3761716.33        1.98037
         439170.17    3763092.51        0.63646                      439220.17
3763092.51        0.65453
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         439270.17    3763092.51        0.68962                    439320.17
3763092.51        0.71843
         439370.17    3763092.51        0.75538                    439420.17
3763092.51        0.80420
         439470.17    3763092.51        0.86003                    439520.17
3763092.51        0.90776
         439570.17    3763092.51        0.95579                    439620.17
3763092.51        0.98375
         439670.17    3763092.51        1.00964                    439720.17
3763092.51        1.04880
         439770.17    3763092.51        1.09300                    439820.17
3763092.51        1.13378
         439870.17    3763092.51        1.17214                    439170.17
3763142.51        0.59681
         439220.17    3763142.51        0.61773                    439270.17
3763142.51        0.65099
         439320.17    3763142.51        0.67441                    439370.17
3763142.51        0.70818
         439420.17    3763142.51        0.75348                    439470.17
3763142.51        0.78201
         439520.17    3763142.51        0.81656                    439570.17
3763142.51        0.86811
         439620.17    3763142.51        0.90224                    439670.17
3763142.51        0.92634
         439720.17    3763142.51        0.95759                    439770.17
3763142.51        0.99008
         439820.17    3763142.51        1.01876                    439870.17
3763142.51        1.04645
         439170.17    3763192.51        0.56033                    439220.17
3763192.51        0.58352
         439270.17    3763192.51        0.61409                    439320.17
3763192.51        0.63502
         439370.17    3763192.51        0.66620                    439420.17
3763192.51        0.70445
         439470.17    3763192.51        0.72974                    439520.17
3763192.51        0.76128
         439570.17    3763192.51        0.79544                    439620.17
3763192.51        0.83113
         439670.17    3763192.51        0.84793                    439720.17
3763192.51        0.86359
         439770.17    3763192.51        0.88556                    439820.17
3763192.51        0.91189
         439870.17    3763192.51        0.93731                    439170.17
3763242.51        0.52967
         439220.17    3763242.51        0.55180                    439270.17
3763242.51        0.57855
         439320.17    3763242.51        0.60243                    439370.17
3763242.51        0.62929
         439420.17    3763242.51        0.65691                    439470.17
3763242.51        0.67881
         439520.17    3763242.51        0.70642                    439570.17
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3763242.51        0.73581
         439620.17    3763242.51        0.76545                      439670.17
3763242.51        0.78241
         439720.17    3763242.51        0.79302                      439770.17
3763242.51        0.80838
         439820.17    3763242.51        0.82462                      439870.17
3763242.51        0.84374
         439170.17    3763292.51        0.49892                      439220.17
3763292.51        0.51266
         439270.17    3763292.51        0.53399                      439320.17
3763292.51        0.55923
         439370.17    3763292.51        0.58910                      439420.17
3763292.51        0.60589
         439470.17    3763292.51        0.62474                      439520.17
3763292.51        0.64441
         439570.17    3763292.51        0.67682                      439620.17
3763292.51        0.69759
         439670.17    3763292.51        0.71718                      439720.17
3763292.51        0.72677
         439770.17    3763292.51        0.73193                      439820.17
3763292.51        0.74704
         439870.17    3763292.51        0.76548                      439170.17
3763342.51        0.47053
         439220.17    3763342.51        0.48405                      439270.17
3763342.51        0.50780
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        20:40:17

                                  PAGE  16
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                  INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                      X-COORD (M)
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Y-COORD (M)        CONC
 - - -
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         439503.20    3762911.16        1.23114                      439553.20
3762911.16        1.32422
         439203.20    3762961.16        0.79586                      439253.20
3762961.16        0.84195
         439303.20    3762961.16        0.88165                      439353.20
3762961.16        0.94967
         439403.20    3762961.16        1.02058                      439453.20
3762961.16        1.08151
         439503.20    3762961.16        1.16589                      439553.20
3762961.16        1.24309
         439203.20    3763011.16        0.74190                      439253.20
3763011.16        0.77846
         439303.20    3763011.16        0.81071                      439353.20
3763011.16        0.85472
         439403.20    3763011.16        0.95795                      439453.20
3763011.16        1.00584
         439503.20    3763011.16        1.08518                      439553.20
3763011.16        1.13418
         439203.20    3763061.16        0.68995                      439253.20
3763061.16        0.70145
         439303.20    3763061.16        0.73387                      439353.20
3763061.16        0.77201
         439403.20    3763061.16        0.81839                      439453.20
3763061.16        0.87447
         439503.20    3763061.16        0.96203                      439553.20
3763061.16        0.98104
         439196.01    3762392.48        1.02051                      439246.01
3762392.48        1.10477
         439296.01    3762392.48        1.20067                      439346.01
3762392.48        1.31072
         439396.01    3762392.48        1.43787                      439446.01
3762392.48        1.58568
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       20:40:17

                                   PAGE  17
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,
```

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	1.76075	439546.01	3762392.48	1.96992
439196.01	3762442.48	1.01194	439246.01	3762442.48	1.09489
439296.01	3762442.48	1.18984	439346.01	3762442.48	1.29827
439396.01	3762442.48	1.42362	439446.01	3762442.48	1.56980
439496.01	3762442.48	1.74153	439546.01	3762442.48	1.94563
439196.01	3762492.48	0.99968	439246.01	3762492.48	1.08066
439296.01	3762492.48	1.17318	439346.01	3762492.48	1.27909
439396.01	3762492.48	1.40087	439446.01	3762492.48	1.54239
439496.01	3762492.48	1.70904	439546.01	3762492.48	1.90609
439196.01	3762542.48	0.98442	439246.01	3762542.48	1.06292
439296.01	3762542.48	1.15235	439346.01	3762542.48	1.25430
439396.01	3762542.48	1.37173	439446.01	3762542.48	1.50757
439496.01	3762542.48	1.66664	439546.01	3762542.48	1.85357
439196.01	3762592.48	0.96663	439246.01	3762592.48	1.04259
439296.01	3762592.48	1.12843	439346.01	3762592.48	1.22600
439396.01	3762592.48	1.33778	439446.01	3762592.48	1.46682
439496.01	3762592.48	1.61682	439546.01	3762592.48	1.79209
439196.01	3762642.48	0.94676	439246.01	3762642.48	1.01946
439296.01	3762642.48	1.10146	439346.01	3762642.48	1.19416
439396.01	3762642.48	1.30008	439446.01	3762642.48	1.42148
439496.01	3762642.48	1.56136	439546.01		

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3762642.48        1.72375
         439196.01    3762692.48        0.92511                        439246.01
3762692.48        0.99439
         439296.01    3762692.48        1.07210                        439346.01
3762692.48        1.15987
         439396.01    3762692.48        1.25937                        439446.01
3762692.48        1.37246
         439496.01    3762692.48        1.50157                        439546.01
3762692.48        1.65037
         439196.01    3762742.48        0.90197                        439246.01
3762742.48        0.96773
         439296.01    3762742.48        1.04094                        439346.01
3762742.48        1.12322
         439396.01    3762742.48        1.21579                        439446.01
3762742.48        1.32033
         439496.01    3762742.48        1.43841                        439546.01
3762742.48        1.57350
         439196.01    3762792.48        0.87760                        439246.01
3762792.48        0.93972
         439296.01    3762792.48        1.00818                        439346.01
3762792.48        1.08462
         439396.01    3762792.48        1.17013                        439446.01
3762792.48        1.26616
         439496.01    3762792.48        1.37344                        439546.01
3762792.48        1.49489
         439196.01    3762842.48        0.85221                        439246.01
3762842.48        0.91039
         439296.01    3762842.48        0.97431                        439346.01
3762842.48        1.04508
         439396.01    3762842.48        1.12352                        439446.01
3762842.48        1.21089
         439496.01    3762842.48        1.30768                        439546.01
3762842.48        1.41613
         439573.31    3762470.54        2.05022                        439623.31
3762470.54        2.31842
         439673.31    3762470.54        2.64681                        439723.31
3762470.54        3.05567
         439773.31    3762470.54        3.57558                        439823.31
3762470.54        4.25080
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       20:40:17

                                    PAGE  18
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
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                 L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                 L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                 L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         439873.31    3762470.54        5.15498                      439573.31
3762520.54        1.99715
         439623.31    3762520.54        2.25055                      439673.31
3762520.54        2.55914
         439723.31    3762520.54        2.94000                      439773.31
3762520.54        3.41805
         439823.31    3762520.54        4.02950                      439873.31
3762520.54        4.83120
         439573.31    3762570.54        1.93214                      439623.31
3762570.54        2.16811
         439673.31    3762570.54        2.45224                      439723.31
3762570.54        2.79882
         439773.31    3762570.54        3.22749                      439823.31
3762570.54        3.76566
         439873.31    3762570.54        4.44980                      439573.31
3762620.54        1.85831
         439623.31    3762620.54        2.07468                      439673.31
3762620.54        2.33232
         439723.31    3762620.54        2.64179                      439773.31
3762620.54        3.01808
         439823.31    3762620.54        3.47900                      439873.31
3762620.54        4.04607
         439573.31    3762670.54        1.77805                      439623.31
3762670.54        1.97314
         439673.31    3762670.54        2.20340                      439723.31
3762670.54        2.47549
         439773.31    3762670.54        2.79840                      439823.31
3762670.54        3.18493
         439873.31    3762670.54        3.64727                      439152.35
3761448.92        0.65733
         439202.35    3761448.92        0.68562                      439252.35
3761448.92        0.71655
         439302.35    3761448.92        0.74866                      439352.35
3761448.92        0.78206
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         439402.35    3761448.92        0.81654                    439452.35
3761448.92        0.85178
         439502.35    3761448.92        0.88901                    439552.35
3761448.92        0.92567
         439152.35    3761498.92        0.68087                    439202.35
3761498.92        0.71325
         439252.35    3761498.92        0.74848                    439302.35
3761498.92        0.78272
         439352.35    3761498.92        0.81898                    439402.35
3761498.92        0.85688
         439452.35    3761498.92        0.89607                    439502.35
3761498.92        0.93856
         439552.35    3761498.92        0.98095                    439152.35
3761548.92        0.70444
         439202.35    3761548.92        0.73946                    439252.35
3761548.92        0.77732
         439302.35    3761548.92        0.81526                    439352.35
3761548.92        0.85487
         439402.35    3761548.92        0.89815                    439452.35
3761548.92        0.94301
         439502.35    3761548.92        0.98988                    439552.35
3761548.92        1.03910
         439152.35    3761598.92        0.72790                    439202.35
3761598.92        0.76525
         439252.35    3761598.92        0.80623                    439302.35
3761598.92        0.84922
         439352.35    3761598.92        0.89316                    439402.35
3761598.92        0.94194
         439452.35    3761598.92        0.99335                    439502.35
3761598.92        1.04561
         439552.35    3761598.92        1.10233                    439152.35
3761648.92        0.75080
         439202.35    3761648.92        0.79169                    439252.35
3761648.92        0.83638
         439302.35    3761648.92        0.88398                    439352.35
3761648.92        0.93374
         439402.35    3761648.92        0.98806                    439452.35
3761648.92        1.04523
         439502.35    3761648.92        1.10653                    439552.35
3761648.92        1.17080
         439152.35    3761698.92        0.77364                    439202.35
3761698.92        0.81743
         439252.35    3761698.92        0.86469                    439302.35
3761698.92        0.91710
         439352.35    3761698.92        0.97383                    439402.35
3761698.92        1.03531
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       20:40:17
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***

INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.09724	439502.35	3761698.92	1.16785
439552.35	3761698.92	1.24229	439152.35	3761748.92	0.79559
439202.35	3761748.92	0.84317	439252.35	3761748.92	0.89336
439302.35	3761748.92	0.95056	439352.35	3761748.92	1.01203
439402.35	3761748.92	1.07908	439452.35	3761748.92	1.15012
439502.35	3761748.92	1.22616	439552.35	3761748.92	1.31222
439152.35	3761798.92	0.81725	439202.35	3761798.92	0.86864
439252.35	3761798.92	0.92360	439302.35	3761798.92	0.98573
439352.35	3761798.92	1.05082	439402.35	3761798.92	1.12364
439452.35	3761798.92	1.20525	439502.35	3761798.92	1.28906
439552.35	3761798.92	1.38704	439152.35	3761848.92	0.83851
439202.35	3761848.92	0.89290	439252.35	3761848.92	0.95130
439302.35	3761848.92	1.01728	439352.35	3761848.92	1.08791
439402.35	3761848.92	1.17028	439452.35		

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3761848.92        1.25859
         439502.35    3761848.92        1.35209                   439552.35
3761848.92        1.46282
         439152.35    3761898.92        0.85943                   439202.35
3761898.92        0.91652
         439252.35    3761898.92        0.97859                   439302.35
3761898.92        1.05074
         439352.35    3761898.92        1.12826                   439402.35
3761898.92        1.21472
         439452.35    3761898.92        1.31440                   439502.35
3761898.92        1.42264
         439552.35    3761898.92        1.54376                   439152.35
3761948.92        0.87889
         439202.35    3761948.92        0.93882                   439252.35
3761948.92        1.00438
         439302.35    3761948.92        1.08158                   439352.35
3761948.92        1.16580
         439402.35    3761948.92        1.25844                   439452.35
3761948.92        1.36710
         439502.35    3761948.92        1.48792                   439552.35
3761948.92        1.62371
         439152.35    3761998.92        0.89707                   439202.35
3761998.92        0.95948
         439252.35    3761998.92        1.02856                   439302.35
3761998.92        1.11039
         439352.35    3761998.92        1.20128                   439402.35
3761998.92        1.30011
         439452.35    3761998.92        1.41514                   439502.35
3761998.92        1.54589
         439552.35    3761998.92        1.69619                   439152.35
3762048.92        0.91371
         439202.35    3762048.92        0.98042                   439252.35
3762048.92        1.05484
         439302.35    3762048.92        1.13873                   439352.35
3762048.92        1.23335
         439402.35    3762048.92        1.33980                   439452.35
3762048.92        1.46311
         439502.35    3762048.92        1.60433                   439552.35
3762048.92        1.76708
         439616.61    3761420.65        0.94013                   439666.61
3761420.65        0.97626
         439716.61    3761420.65        1.01228                   439766.61
3761420.65        1.04830
         439816.61    3761420.65        1.08288                   439866.61
3761420.65        1.11868
         439616.61    3761470.65        0.99972                   439666.61
3761470.65        1.04048
         439716.61    3761470.65        1.08188                   439766.61
3761470.65        1.12343
         439816.61    3761470.65        1.16370                   439866.61
3761470.65        1.20611
```

                                 *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                    INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                    ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439716.61   3761520.65   1.15939   439766.61
3761520.65   1.20877
         439816.61   3761520.65   1.25637   439866.61
3761520.65   1.30541
         439616.61   3761570.65   1.13497   439666.61
3761570.65   1.18985
         439716.61   3761570.65   1.24607   439766.61
3761570.65   1.30400
         439816.61   3761570.65   1.36121   439866.61
3761570.65   1.41750
         440451.14   3762893.83   2.67191   440501.14
3762893.83   2.64169
         440551.14   3762893.83   2.63015   440601.14
3762893.83   2.59246
         440651.14   3762893.83   2.56329   440701.14
3762893.83   2.54932
         440751.14   3762893.83   2.55171   440801.14
3762893.83   2.53874
         440851.14   3762893.83   2.53520   440451.14
3762943.83   2.23033

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         440501.14    3762943.83        2.18030                    440551.14
3762943.83        2.18141
         440601.14    3762943.83        2.14829                    440651.14
3762943.83        2.14500
         440701.14    3762943.83        2.14593                    440751.14
3762943.83        2.16784
         440801.14    3762943.83        2.14433                    440851.14
3762943.83        2.12324
         441116.67    3763135.31        1.24246                    441166.67
3763135.31        1.24294
         441116.67    3763185.31        1.10606                    441166.67
3763185.31        1.11086
         441116.67    3763235.31        0.99095                    441166.67
3763235.31        0.99677
         441116.67    3763285.31        0.88585                    441166.67
3763285.31        0.89597
         441116.67    3763335.31        0.79734                    441166.67
3763335.31        0.80618
         441116.67    3763385.31        0.72193                    441166.67
3763385.31        0.72738
         441116.67    3763435.31        0.65529                    441166.67
3763435.31        0.66177
         440433.43    3762815.13        3.99923                    440483.43
3762815.13        3.92306
         440533.43    3762815.13        3.85868                    440583.43
3762815.13        3.73441
         440633.43    3762815.13        3.65839                    440683.43
3762815.13        3.57843
         440733.43    3762815.13        3.47776                    440783.43
3762815.13        3.38550
         440833.43    3762815.13        3.26931                    440883.43
3762815.13        3.14722
         440933.43    3762815.13        3.00748                    440983.43
3762815.13        2.86025
         440433.43    3762865.13        3.02821                    440483.43
3762865.13        3.11748
         440533.43    3762865.13        3.08521                    440583.43
3762865.13        3.02465
         440633.43    3762865.13        2.96251                    440683.43
3762865.13        2.92994
         440733.43    3762865.13        2.88016                    440783.43
3762865.13        2.84275
         440833.43    3762865.13        2.79500                    440883.43
3762865.13        2.72511
         440933.43    3762865.13        2.63772                    440983.43
3762865.13        2.54066
         441118.27    3762686.02        2.99822                    441168.27
3762686.02        2.77215
         441118.27    3762736.02        2.80274                    441168.27
3762736.02        2.61224
         441118.27    3762786.02        2.59502                    441168.27
```

                                *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         440461.67   3762143.41   9.40397   440511.67
3762143.41   8.27022
         440561.67   3762143.41   7.30284   440611.67
3762143.41   6.50658
         440406.61   3762008.86   5.63180   440456.61
3762008.86   5.22517
         440506.61   3762008.86   4.80568   440556.61
3762008.86   4.40497
         440606.61   3762008.86   4.04453   440656.61
3762008.86   3.72604
         440706.61   3762008.86   3.44719   440756.61
3762008.86   3.20139
         440806.61   3762008.86   2.97277   440856.61

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3762008.86        2.77776
         440906.61    3762008.86        2.60551                       440956.61
3762008.86        2.44151
         441006.61    3762008.86        2.29226                       441056.61
3762008.86        2.15244
         441106.61    3762008.86        2.02704                       441156.61
3762008.86        1.91221
         440406.61    3762058.86        7.00391                       440456.61
3762058.86        6.38292
         440506.61    3762058.86        5.78621                       440556.61
3762058.86        5.24507
         440606.61    3762058.86        4.76890                       440656.61
3762058.86        4.36039
         440706.61    3762058.86        4.00877                       440756.61
3762058.86        3.69583
         440806.61    3762058.86        3.40932                       440856.61
3762058.86        3.16168
         440906.61    3762058.86        2.94083                       440956.61
3762058.86        2.73737
         441006.61    3762058.86        2.55236                       441056.61
3762058.86        2.38477
         441106.61    3762058.86        2.23236                       441156.61
3762058.86        2.09387
         440191.38    3762138.44       12.03481                       440241.38
3762138.44       12.93805
         440291.38    3762138.44       12.97724                       440341.38
3762138.44       12.11165
         440191.38    3762188.44       17.30245                       440241.38
3762188.44       19.15800
         440291.38    3762188.44       19.41626                       440341.38
3762188.44       17.59690
         440191.38    3762238.44       26.90355                       440241.38
3762238.44       32.62897
         440291.38    3762238.44       33.06517                       440341.38
3762238.44       27.92428
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       20:40:17

                                  PAGE  22
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                  INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                 L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	1.37102	439943.36	3761716.33	1.91611
439170.17	3763092.51	0.66513	439220.17	3763092.51	0.68780
439270.17	3763092.51	0.72569	439320.17	3763092.51	0.75271
439370.17	3763092.51	0.79318	439420.17	3763092.51	0.84109
439470.17	3763092.51	0.91820	439520.17	3763092.51	0.97144
439570.17	3763092.51	1.01223	439620.17	3763092.51	1.04377
439670.17	3763092.51	1.06697	439720.17	3763092.51	1.09358
439770.17	3763092.51	1.14170	439820.17	3763092.51	1.18632
439870.17	3763092.51	1.22836	439170.17	3763142.51	0.61939
439220.17	3763142.51	0.63819	439270.17	3763142.51	0.68121
439320.17	3763142.51	0.70223	439370.17	3763142.51	0.73847
439420.17	3763142.51	0.79256	439470.17	3763142.51	0.81790
439520.17	3763142.51	0.85622	439570.17	3763142.51	0.90593
439620.17	3763142.51	0.94900	439670.17	3763142.51	0.96240
439720.17	3763142.51	0.99650	439770.17	3763142.51	1.03187
439820.17	3763142.51	1.06329	439870.17	3763142.51	1.09361
439170.17	3763192.51	0.58105	439220.17	3763192.51	0.60626
439270.17	3763192.51	0.63826	439320.17	3763192.51	0.66211
439370.17	3763192.51	0.69533	439420.17	3763192.51	0.73519
439470.17	3763192.51	0.76390	439520.17	3763192.51	0.79849
439570.17	3763192.51	0.83576	439620.17	3763192.51	0.87469

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         439670.17    3763192.51        0.87955                      439720.17
3763192.51        0.89720
         439770.17    3763192.51        0.92121                      439820.17
3763192.51        0.94962
         439870.17    3763192.51        0.97702                      439170.17
3763242.51        0.54300
         439220.17    3763242.51        0.56621                      439270.17
3763242.51        0.59405
         439320.17    3763242.51        0.61916                      439370.17
3763242.51        0.64733
         439420.17    3763242.51        0.67637                      439470.17
3763242.51        0.69980
         439520.17    3763242.51        0.72902                      439570.17
3763242.51        0.76015
         439620.17    3763242.51        0.79162                      439670.17
3763242.51        0.81024
         439720.17    3763242.51        0.82236                      439770.17
3763242.51        0.83916
         439820.17    3763242.51        0.85675                      439870.17
3763242.51        0.87728
         439170.17    3763292.51        0.51144                      439220.17
3763292.51        0.52608
         439270.17    3763292.51        0.54838                      439320.17
3763292.51        0.57465
         439370.17    3763292.51        0.60563                      439420.17
3763292.51        0.62357
         439470.17    3763292.51        0.64365                      439520.17
3763292.51        0.66460
         439570.17    3763292.51        0.69849                      439620.17
3763292.51        0.72066
         439670.17    3763292.51        0.74164                      439720.17
3763292.51        0.75234
         439770.17    3763292.51        0.75830                      439820.17
3763292.51        0.77449
         439870.17    3763292.51        0.79412                      439170.17
3763342.51        0.48217
         439220.17    3763342.51        0.49645                      439270.17
3763342.51        0.52105
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      20:40:17

                                   PAGE  23
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
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, L0013638   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	0.54225	439370.17	3763342.51	0.56832
439420.17	3763342.51	0.58515	439470.17	3763342.51	0.60109
439520.17	3763342.51	0.61837	439570.17	3763342.51	0.64247
439620.17	3763342.51	0.66672	439670.17	3763342.51	0.68121
439720.17	3763342.51	0.69153	439770.17	3763342.51	0.69338
439820.17	3763342.51	0.70614	439870.17	3763342.51	0.72108
439170.17	3763392.51	0.45492	439220.17	3763392.51	0.46953
439270.17	3763392.51	0.49194	439320.17	3763392.51	0.50557
439370.17	3763392.51	0.52615	439420.17	3763392.51	0.53893
439470.17	3763392.51	0.55290	439520.17	3763392.51	0.57555
439570.17	3763392.51	0.59524	439620.17	3763392.51	0.61596
439670.17	3763392.51	0.62497	439720.17	3763392.51	0.63757
439770.17	3763392.51	0.64069	439820.17	3763392.51	0.64906
439870.17	3763392.51	0.65975	439170.17	3763442.51	0.42977
439220.17	3763442.51	0.44316	439270.17	3763442.51	0.46347
439320.17	3763442.51	0.47855	439370.17	3763442.51	0.49226
439420.17	3763442.51	0.50681	439470.17	3763442.51	0.51872
439520.17	3763442.51	0.53766	439570.17	3763442.51	0.55212
439620.17	3763442.51	0.56835	439670.17	3763442.51	0.57759
439720.17	3763442.51	0.58560	439770.17		

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3763442.51        0.59011
         439820.17    3763442.51        0.59747                        439870.17
3763442.51        0.60755
         439203.20    3762911.16        0.84918                        439253.20
3762911.16        0.90513
         439303.20    3762911.16        0.96678                        439353.20
3762911.16        1.03529
         439403.20    3762911.16        1.11026                        439453.20
3762911.16        1.19286
         439503.20    3762911.16        1.28457                        439553.20
3762911.16        1.38529
         439203.20    3762961.16        0.82091                        439253.20
3762961.16        0.87284
         439303.20    3762961.16        0.92942                        439353.20
3762961.16        0.99172
         439403.20    3762961.16        1.05992                        439453.20
3762961.16        1.13422
         439503.20    3762961.16        1.21601                        439553.20
3762961.16        1.30485
         439203.20    3763011.16        0.76855                        439253.20
3763011.16        0.80551
         439303.20    3763011.16        0.84424                        439353.20
3763011.16        0.88558
         439403.20    3763011.16        1.01054                        439453.20
3763011.16        1.06557
         439503.20    3763011.16        1.14971                        439553.20
3763011.16        1.19979
         439203.20    3763061.16        0.71406                        439253.20
3763061.16        0.73379
         439303.20    3763061.16        0.77324                        439353.20
3763061.16        0.80585
         439403.20    3763061.16        0.86580                        439453.20
3763061.16        0.93282
         439503.20    3763061.16        1.00606                        439553.20
3763061.16        1.05098
         439196.01    3762392.48        1.04278                        439246.01
3762392.48        1.12991
         439296.01    3762392.48        1.22918                        439346.01
3762392.48        1.34326
         439396.01    3762392.48        1.47524                        439446.01
3762392.48        1.62883
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       20:40:17

                                    PAGE  24
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
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INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	1.81124	439546.01	3762392.48	2.02972
439196.01	3762442.48	1.03599	439246.01	3762442.48	1.12211
439296.01	3762442.48	1.22094	439346.01	3762442.48	1.33392
439396.01	3762442.48	1.46479	439446.01	3762442.48	1.61779
439496.01	3762442.48	1.79794	439546.01	3762442.48	2.01263
439196.01	3762492.48	1.02519	439246.01	3762492.48	1.10953
439296.01	3762492.48	1.20619	439346.01	3762492.48	1.31708
439396.01	3762492.48	1.44481	439446.01	3762492.48	1.59365
439496.01	3762492.48	1.76973	439546.01	3762492.48	1.97857
439196.01	3762542.48	1.01102	439246.01	3762542.48	1.09297
439296.01	3762542.48	1.18668	439346.01	3762542.48	1.29370
439396.01	3762542.48	1.41743	439446.01	3762542.48	1.56095
439496.01	3762542.48	1.72991	439546.01	3762542.48	1.92896
439196.01	3762592.48	0.99392	439246.01	3762592.48	1.07355
439296.01	3762592.48	1.16366	439346.01	3762592.48	1.26632
439396.01	3762592.48	1.38432	439446.01	3762592.48	1.52115
439496.01	3762592.48	1.68108	439546.01	3762592.48	1.86849
439196.01	3762642.48	0.97434	439246.01	3762642.48	1.05071

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         439296.01    3762642.48        1.13686                      439346.01
3762642.48        1.23453
         439396.01    3762642.48        1.34671                      439446.01
3762642.48        1.47580
         439496.01    3762642.48        1.62540                      439546.01
3762642.48        1.79968
         439196.01    3762692.48        0.95268                      439246.01
3762692.48        1.02552
         439296.01    3762692.48        1.10747                      439346.01
3762692.48        1.20024
         439396.01    3762692.48        1.30559                      439446.01
3762692.48        1.42612
         439496.01    3762692.48        1.56459                      439546.01
3762692.48        1.72475
         439196.01    3762742.48        0.92929                      439246.01
3762742.48        0.99847
         439296.01    3762742.48        1.07580                      439346.01
3762742.48        1.16292
         439396.01    3762742.48        1.26131                      439446.01
3762742.48        1.37294
         439496.01    3762742.48        1.49980                      439546.01
3762742.48        1.64551
         439196.01    3762792.48        0.90447                      439246.01
3762792.48        0.96988
         439296.01    3762792.48        1.04234                      439346.01
3762792.48        1.12346
         439396.01    3762792.48        1.21453                      439446.01
3762792.48        1.31721
         439496.01    3762792.48        1.43259                      439546.01
3762792.48        1.56380
         439196.01    3762842.48        0.87852                      439246.01
3762842.48        0.93989
         439296.01    3762842.48        1.00757                      439346.01
3762842.48        1.08277
         439396.01    3762842.48        1.16645                      439446.01
3762842.48        1.26002
         439496.01    3762842.48        1.36419                      439546.01
3762842.48        1.48145
         439573.31    3762470.54        2.12769                      439623.31
3762470.54        2.41296
         439673.31    3762470.54        2.76383                      439723.31
3762470.54        3.20283
         439773.31    3762470.54        3.76497                      439823.31
3762470.54        4.50040
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       20:40:17

                                  PAGE  25
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***

INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	5.49642	439573.31	3762520.54	2.07916
439623.31	3762520.54	2.35049	439673.31	3762520.54	2.68302
439723.31	3762520.54	3.09620	439773.31	3762520.54	3.61875
439823.31	3762520.54	4.29261	439873.31	3762520.54	5.18988
439573.31	3762570.54	2.01620	439623.31	3762570.54	2.27031
439673.31	3762570.54	2.57845	439723.31	3762570.54	2.95700
439773.31	3762570.54	3.42935	439823.31	3762570.54	4.02870
439873.31	3762570.54	4.80378	439573.31	3762620.54	1.94240
439623.31	3762620.54	2.17648	439673.31	3762620.54	2.45709
439723.31	3762620.54	2.79708	439773.31	3762620.54	3.21414
439823.31	3762620.54	3.73144	439873.31	3762620.54	4.37884
439573.31	3762670.54	1.86071	439623.31	3762670.54	2.07281
439673.31	3762670.54	2.32449	439723.31	3762670.54	2.62450
439773.31	3762670.54	2.98437	439823.31	3762670.54	3.42014
439873.31	3762670.54	3.94906	439152.35	3761448.92	0.65387
439202.35	3761448.92	0.68115	439252.35	3761448.92	0.71099
439302.35	3761448.92	0.74187	439352.35		

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3761448.92        0.77393
         439402.35    3761448.92        0.80695                     439452.35
3761448.92        0.84063
         439502.35    3761448.92        0.87623                     439552.35
3761448.92        0.91114
         439152.35    3761498.92        0.67802                     439202.35
3761498.92        0.70942
         439252.35    3761498.92        0.74354                     439302.35
3761498.92        0.77643
         439352.35    3761498.92        0.81120                     439402.35
3761498.92        0.84746
         439452.35    3761498.92        0.88486                     439502.35
3761498.92        0.92545
         439552.35    3761498.92        0.96579                     439152.35
3761548.92        0.70231
         439202.35    3761548.92        0.73635                     439252.35
3761548.92        0.77307
         439302.35    3761548.92        0.80961                     439352.35
3761548.92        0.84761
         439402.35    3761548.92        0.88911                     439452.35
3761548.92        0.93197
         439502.35    3761548.92        0.97664                     439552.35
3761548.92        1.02348
         439152.35    3761598.92        0.72658                     439202.35
3761598.92        0.76297
         439252.35    3761598.92        0.80282                     439302.35
3761598.92        0.84443
         439352.35    3761598.92        0.88669                     439402.35
3761598.92        0.93357
         439452.35    3761598.92        0.98280                     439502.35
3761598.92        1.03256
         439552.35    3761598.92        1.08654                     439152.35
3761648.92        0.75037
         439202.35    3761648.92        0.79038                     439252.35
3761648.92        0.83400
         439302.35    3761648.92        0.88027                     439352.35
3761648.92        0.92835
         439402.35    3761648.92        0.98069                     439452.35
3761648.92        1.03551
         439502.35    3761648.92        1.09410                     439552.35
3761648.92        1.15525
         439152.35    3761698.92        0.77417                     439202.35
3761698.92        0.81716
         439252.35    3761698.92        0.86340                     439302.35
3761698.92        0.91458
         439352.35    3761698.92        0.96975                     439402.35
3761698.92        1.02930
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       20:40:17
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***

INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439452.35	3761698.92	1.08873	439502.35	3761698.92	1.15647
439552.35	3761698.92	1.22748	439152.35	3761748.92	0.79711
439202.35	3761748.92	0.84406	439252.35	3761748.92	0.89332
439302.35	3761748.92	0.94943	439352.35	3761748.92	1.00944
439402.35	3761748.92	1.07462	439452.35	3761748.92	1.14321
439502.35	3761748.92	1.21620	439552.35	3761748.92	1.29863
439152.35	3761798.92	0.81985	439202.35	3761798.92	0.87077
439252.35	3761798.92	0.92501	439302.35	3761798.92	0.98625
439352.35	3761798.92	1.04997	439402.35	3761798.92	1.12104
439452.35	3761798.92	1.20044	439502.35	3761798.92	1.28115
439552.35	3761798.92	1.37543	439152.35	3761848.92	0.84225
439202.35	3761848.92	0.89633	439252.35	3761848.92	0.95416
439302.35	3761848.92	1.01944	439352.35	3761848.92	1.08893
439402.35	3761848.92	1.16994	439452.35	3761848.92	1.25620
439502.35	3761848.92	1.34676	439552.35	3761848.92	1.45391

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         439152.35    3761898.92        0.86440                    439202.35
3761898.92        0.92133
         439252.35    3761898.92        0.98304                    439302.35
3761898.92        1.05482
         439352.35    3761898.92        1.13155                    439402.35
3761898.92        1.21684
         439452.35    3761898.92        1.31499                    439502.35
3761898.92        1.42080
         439552.35    3761898.92        1.53852                    439152.35
3761948.92        0.88512
         439202.35    3761948.92        0.94506                    439252.35
3761948.92        1.01047
         439302.35    3761948.92        1.08764                    439352.35
3761948.92        1.17147
         439402.35    3761948.92        1.26328                    439452.35
3761948.92        1.37092
         439502.35    3761948.92        1.48995                    439552.35
3761948.92        1.62295
         439152.35    3761998.92        0.90460                    439202.35
3761998.92        0.96719
         439252.35    3761998.92        1.03635                    439302.35
3761998.92        1.11850
         439352.35    3761998.92        1.20947                    439402.35
3761998.92        1.30787
         439452.35    3761998.92        1.42231                    439502.35
3761998.92        1.55189
         439552.35    3761998.92        1.70024                    439152.35
3762048.92        0.92260
         439202.35    3762048.92        0.98983                    439252.35
3762048.92        1.06475
         439302.35    3762048.92        1.14913                    439352.35
3762048.92        1.24413
         439402.35    3762048.92        1.35073                    439452.35
3762048.92        1.47410
         439502.35    3762048.92        1.61494                    439552.35
3762048.92        1.77662
         439616.61    3761420.65        0.92383                    439666.61
3761420.65        0.95814
         439716.61    3761420.65        0.99218                    439766.61
3761420.65        1.02601
         439816.61    3761420.65        1.05819                    439866.61
3761420.65        1.09136
         439616.61    3761470.65        0.98234                    439666.61
3761470.65        1.02097
         439716.61    3761470.65        1.06007                    439766.61
3761470.65        1.09910
         439816.61    3761470.65        1.13658                    439866.61
3761470.65        1.17592
         439616.61    3761520.65        1.04575                    439666.61
3761520.65        1.09048
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	1.13575	439766.61	3761520.65	1.18217
439816.61	3761520.65	1.22651	439866.61	3761520.65	1.27196
439616.61	3761570.65	1.11567	439666.61	3761570.65	1.16754
439716.61	3761570.65	1.22053	439766.61	3761570.65	1.27494
439816.61	3761570.65	1.32829	439866.61	3761570.65	1.38031
440451.14	3762893.83	2.89373	440501.14	3762893.83	2.89724
440551.14	3762893.83	2.89805	440601.14	3762893.83	2.82528
440651.14	3762893.83	2.79862	440701.14	3762893.83	2.77504
440751.14	3762893.83	2.76694	440801.14	3762893.83	2.72559
440851.14	3762893.83	2.68265	440451.14	3762943.83	2.37988
440501.14	3762943.83	2.34107	440551.14	3762943.83	2.36249
440601.14	3762943.83	2.30225	440651.14	3762943.83	2.32338
440701.14	3762943.83	2.31996	440751.14	3762943.83	2.33767
440801.14	3762943.83	2.30202	440851.14		

3762943.83 2.27351
441116.67 3763135.31 1.30675 441166.67
3763135.31 1.30349
441116.67 3763185.31 1.16260 441166.67
3763185.31 1.16536
441116.67 3763235.31 1.03988 441166.67
3763235.31 1.04480
441116.67 3763285.31 0.92818 441166.67
3763285.31 0.93791
441116.67 3763335.31 0.83389 441166.67
3763335.31 0.84272
441116.67 3763385.31 0.75348 441166.67
3763385.31 0.75923
441116.67 3763435.31 0.68261 441166.67
3763435.31 0.68948
440433.43 3762815.13 4.36305 440483.43
3762815.13 4.28138
440533.43 3762815.13 4.23791 440583.43
3762815.13 4.08930
440633.43 3762815.13 4.00807 440683.43
3762815.13 3.89061
440733.43 3762815.13 3.74687 440783.43
3762815.13 3.61479
440833.43 3762815.13 3.44951 440883.43
3762815.13 3.28856
440933.43 3762815.13 3.11666 440983.43
3762815.13 2.94498
440433.43 3762865.13 3.37038 440483.43
3762865.13 3.30508
440533.43 3762865.13 3.28627 440583.43
3762865.13 3.22931
440633.43 3762865.13 3.17890 440683.43
3762865.13 3.13697
440733.43 3762865.13 3.08439 440783.43
3762865.13 3.03211
440833.43 3762865.13 2.96351 440883.43
3762865.13 2.86985
440933.43 3762865.13 2.75731 440983.43
3762865.13 2.63555
441118.27 3762686.02 2.97821 441168.27
3762686.02 2.74886
441118.27 3762736.02 2.80585 441168.27
3762736.02 2.60793
441118.27 3762786.02 2.61835 441168.27
3762786.02 2.45092
441118.27 3762836.02 2.42020 441168.27
3762836.02 2.28357
440411.67 3762093.41 7.19137 440461.67
3762093.41 6.48211
440511.67 3762093.41 5.84624 440561.67
3762093.41 5.28752

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 ,
L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	8.12108	440511.67	3762143.41	7.20617
440561.67	3762143.41	6.42353	440611.67	3762143.41	5.77477
440406.61	3762008.86	5.07645	440456.61	3762008.86	4.71715
440506.61	3762008.86	4.35208	440556.61	3762008.86	4.00531
440606.61	3762008.86	3.69375	440656.61	3762008.86	3.41776
440706.61	3762008.86	3.17512	440756.61	3762008.86	2.96007
440806.61	3762008.86	2.75813	440856.61	3762008.86	2.58563
440906.61	3762008.86	2.43287	440956.61	3762008.86	2.28614
441006.61	3762008.86	2.15210	441056.61	3762008.86	2.02580
441106.61	3762008.86	1.91234	441156.61	3762008.86	1.80815
440406.61	3762058.86	6.22291	440456.61	3762058.86	5.68635
440506.61	3762058.86	5.17801	440556.61	3762058.86	4.71912

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         440606.61    3762058.86        4.31471                      440656.61
3762058.86        3.96643
         440706.61    3762058.86        3.66506                      440756.61
3762058.86        3.39457
         440806.61    3762058.86        3.14432                      440856.61
3762058.86        2.92738
         440906.61    3762058.86        2.73300                      440956.61
3762058.86        2.55258
         441006.61    3762058.86        2.38764                      441056.61
3762058.86        2.23757
         441106.61    3762058.86        2.10052                      441156.61
3762058.86        1.97549
         440191.38    3762138.44       10.74853                      440241.38
3762138.44       11.32316
         440291.38    3762138.44       11.20436                      440341.38
3762138.44       10.39712
         440191.38    3762188.44       15.14603                      440241.38
3762188.44       16.24069
         440291.38    3762188.44       16.16158                      440341.38
3762188.44       14.57909
         440191.38    3762238.44       22.91794                      440241.38
3762238.44       26.10954
         440291.38    3762238.44       25.81470                      440341.38
3762238.44       21.85662
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
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                                   PAGE  29
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN    ***
                                   INCLUDING SOURCE(S):     PAREA4      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                   **

       X-COORD (M)   Y-COORD (M)        CONC                        X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         440407.86    3761497.84        0.00043                      439943.36
3761716.33        0.00088
         439170.17    3763092.51        0.00015                      439220.17
3763092.51        0.00015
         439270.17    3763092.51        0.00015                      439320.17
```

3763092.51 0.00014
439370.17 3763092.51 0.00014 439420.17
3763092.51 0.00013
439470.17 3763092.51 0.00013 439520.17
3763092.51 0.00012
439570.17 3763092.51 0.00011 439620.17
3763092.51 0.00011
439670.17 3763092.51 0.00011 439720.17
3763092.51 0.00011
439770.17 3763092.51 0.00013 439820.17
3763092.51 0.00015
439870.17 3763092.51 0.00017 439170.17
3763142.51 0.00013
439220.17 3763142.51 0.00013 439270.17
3763142.51 0.00012
439320.17 3763142.51 0.00012 439370.17
3763142.51 0.00011
439420.17 3763142.51 0.00011 439470.17
3763142.51 0.00010
439520.17 3763142.51 0.00009 439570.17
3763142.51 0.00009
439620.17 3763142.51 0.00009 439670.17
3763142.51 0.00009
439720.17 3763142.51 0.00010 439770.17
3763142.51 0.00011
439820.17 3763142.51 0.00013 439870.17
3763142.51 0.00016
439170.17 3763192.51 0.00011 439220.17
3763192.51 0.00010
439270.17 3763192.51 0.00010 439320.17
3763192.51 0.00009
439370.17 3763192.51 0.00009 439420.17
3763192.51 0.00008
439470.17 3763192.51 0.00008 439520.17
3763192.51 0.00007
439570.17 3763192.51 0.00007 439620.17
3763192.51 0.00008
439670.17 3763192.51 0.00008 439720.17
3763192.51 0.00009
439770.17 3763192.51 0.00011 439820.17
3763192.51 0.00012
439870.17 3763192.51 0.00015 439170.17
3763242.51 0.00009
439220.17 3763242.51 0.00009 439270.17
3763242.51 0.00008
439320.17 3763242.51 0.00008 439370.17
3763242.51 0.00007
439420.17 3763242.51 0.00007 439470.17
3763242.51 0.00006
439520.17 3763242.51 0.00006 439570.17
3763242.51 0.00006

```
         439620.17    3763242.51        0.00007                       439670.17
3763242.51        0.00007
         439720.17    3763242.51        0.00009                       439770.17
3763242.51        0.00010
         439820.17    3763242.51        0.00012                       439870.17
3763242.51        0.00013
         439170.17    3763292.51        0.00007                       439220.17
3763292.51        0.00007
         439270.17    3763292.51        0.00006                       439320.17
3763292.51        0.00006
         439370.17    3763292.51        0.00006                       439420.17
3763292.51        0.00005
         439470.17    3763292.51        0.00005                       439520.17
3763292.51        0.00005
         439570.17    3763292.51        0.00006                       439620.17
3763292.51        0.00006
         439670.17    3763292.51        0.00007                       439720.17
3763292.51        0.00008
         439770.17    3763292.51        0.00009                       439820.17
3763292.51        0.00011
         439870.17    3763292.51        0.00012                       439170.17
3763342.51        0.00006
         439220.17    3763342.51        0.00006                       439270.17
3763342.51        0.00005
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       20:40:17

                                  PAGE  30
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN    ***
                                  INCLUDING SOURCE(S):     PAREA4      ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         439320.17    3763342.51        0.00005                       439370.17
3763342.51        0.00005
         439420.17    3763342.51        0.00005                       439470.17
3763342.51        0.00005
         439520.17    3763342.51        0.00005                       439570.17
```

```
3763342.51        0.00005
         439620.17    3763342.51        0.00006                    439670.17
3763342.51        0.00007
         439720.17    3763342.51        0.00008                    439770.17
3763342.51        0.00009
         439820.17    3763342.51        0.00010                    439870.17
3763342.51        0.00011
         439170.17    3763392.51        0.00005                    439220.17
3763392.51        0.00005
         439270.17    3763392.51        0.00004                    439320.17
3763392.51        0.00004
         439370.17    3763392.51        0.00004                    439420.17
3763392.51        0.00004
         439470.17    3763392.51        0.00004                    439520.17
3763392.51        0.00004
         439570.17    3763392.51        0.00005                    439620.17
3763392.51        0.00006
         439670.17    3763392.51        0.00006                    439720.17
3763392.51        0.00007
         439770.17    3763392.51        0.00009                    439820.17
3763392.51        0.00010
         439870.17    3763392.51        0.00011                    439170.17
3763442.51        0.00004
         439220.17    3763442.51        0.00004                    439270.17
3763442.51        0.00004
         439320.17    3763442.51        0.00003                    439370.17
3763442.51        0.00003
         439420.17    3763442.51        0.00004                    439470.17
3763442.51        0.00004
         439520.17    3763442.51        0.00004                    439570.17
3763442.51        0.00005
         439620.17    3763442.51        0.00005                    439670.17
3763442.51        0.00006
         439720.17    3763442.51        0.00007                    439770.17
3763442.51        0.00008
         439820.17    3763442.51        0.00009                    439870.17
3763442.51        0.00010
         439203.20    3762911.16        0.00026                    439253.20
3762911.16        0.00027
         439303.20    3762911.16        0.00028                    439353.20
3762911.16        0.00029
         439403.20    3762911.16        0.00030                    439453.20
3762911.16        0.00030
         439503.20    3762911.16        0.00030                    439553.20
3762911.16        0.00030
         439203.20    3762961.16        0.00023                    439253.20
3762961.16        0.00024
         439303.20    3762961.16        0.00024                    439353.20
3762961.16        0.00024
         439403.20    3762961.16        0.00024                    439453.20
3762961.16        0.00024
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439503.20	3762961.16	0.00024	439553.20	3762961.16	0.00023
439203.20	3763011.16	0.00020	439253.20	3763011.16	0.00020
439303.20	3763011.16	0.00020	439353.20	3763011.16	0.00020
439403.20	3763011.16	0.00020	439453.20	3763011.16	0.00019
439503.20	3763011.16	0.00018	439553.20	3763011.16	0.00018
439203.20	3763061.16	0.00017	439253.20	3763061.16	0.00017
439303.20	3763061.16	0.00017	439353.20	3763061.16	0.00016
439403.20	3763061.16	0.00016	439453.20	3763061.16	0.00015
439503.20	3763061.16	0.00014	439553.20	3763061.16	0.00013
439196.01	3762392.48	0.00043	439246.01	3762392.48	0.00048
439296.01	3762392.48	0.00054	439346.01	3762392.48	0.00060
439396.01	3762392.48	0.00068	439446.01	3762392.48	0.00078
439496.01	3762392.48	0.00090	439546.01	3762392.48	0.00105
439196.01	3762442.48	0.00042	439246.01	3762442.48	0.00046
439296.01	3762442.48	0.00052	439346.01		

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3762442.48        0.00058
         439396.01    3762442.48        0.00066                    439446.01
3762442.48        0.00075
         439496.01    3762442.48        0.00087                    439546.01
3762442.48        0.00101
         439196.01    3762492.48        0.00040                    439246.01
3762492.48        0.00045
         439296.01    3762492.48        0.00050                    439346.01
3762492.48        0.00056
         439396.01    3762492.48        0.00064                    439446.01
3762492.48        0.00072
         439496.01    3762492.48        0.00083                    439546.01
3762492.48        0.00097
         439196.01    3762542.48        0.00039                    439246.01
3762542.48        0.00044
         439296.01    3762542.48        0.00049                    439346.01
3762542.48        0.00055
         439396.01    3762542.48        0.00062                    439446.01
3762542.48        0.00070
         439496.01    3762542.48        0.00080                    439546.01
3762542.48        0.00092
         439196.01    3762592.48        0.00038                    439246.01
3762592.48        0.00043
         439296.01    3762592.48        0.00047                    439346.01
3762592.48        0.00053
         439396.01    3762592.48        0.00059                    439446.01
3762592.48        0.00067
         439496.01    3762592.48        0.00076                    439546.01
3762592.48        0.00087
         439196.01    3762642.48        0.00038                    439246.01
3762642.48        0.00041
         439296.01    3762642.48        0.00046                    439346.01
3762642.48        0.00051
         439396.01    3762642.48        0.00057                    439446.01
3762642.48        0.00063
         439496.01    3762642.48        0.00071                    439546.01
3762642.48        0.00080
         439196.01    3762692.48        0.00036                    439246.01
3762692.48        0.00040
         439296.01    3762692.48        0.00044                    439346.01
3762692.48        0.00048
         439396.01    3762692.48        0.00053                    439446.01
3762692.48        0.00059
         439496.01    3762692.48        0.00065                    439546.01
3762692.48        0.00071
         439196.01    3762742.48        0.00035                    439246.01
3762742.48        0.00038
         439296.01    3762742.48        0.00041                    439346.01
3762742.48        0.00045
         439396.01    3762742.48        0.00048                    439446.01
3762742.48        0.00053
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         439496.01    3762742.48        0.00057                      439546.01
3762742.48        0.00061
         439196.01    3762792.48        0.00033                      439246.01
3762792.48        0.00035
         439296.01    3762792.48        0.00038                      439346.01
3762792.48        0.00040
         439396.01    3762792.48        0.00043                      439446.01
3762792.48        0.00046
         439496.01    3762792.48        0.00049                      439546.01
3762792.48        0.00051
         439196.01    3762842.48        0.00030                      439246.01
3762842.48        0.00032
         439296.01    3762842.48        0.00034                      439346.01
3762842.48        0.00036
         439396.01    3762842.48        0.00037                      439446.01
3762842.48        0.00039
         439496.01    3762842.48        0.00040                      439546.01
3762842.48        0.00041
         439573.31    3762470.54        0.00107                      439623.31
3762470.54        0.00127
         439673.31    3762470.54        0.00152                      439723.31
3762470.54        0.00185
         439773.31    3762470.54        0.00228                      439823.31
3762470.54        0.00288
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      20:40:17

                                   PAGE  32
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN    ***
                                   INCLUDING SOURCE(S):     PAREA4      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         439873.31    3762470.54        0.00370                      439573.31
3762520.54        0.00102
         439623.31    3762520.54        0.00120                      439673.31
3762520.54        0.00143
         439723.31    3762520.54        0.00171                      439773.31
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3762520.54        0.00208
         439823.31    3762520.54        0.00256                    439873.31
3762520.54        0.00317
         439573.31    3762570.54        0.00097                    439623.31
3762570.54        0.00112
         439673.31    3762570.54        0.00131                    439723.31
3762570.54        0.00154
         439773.31    3762570.54        0.00181                    439823.31
3762570.54        0.00214
         439873.31    3762570.54        0.00253                    439573.31
3762620.54        0.00089
         439623.31    3762620.54        0.00101                    439673.31
3762620.54        0.00116
         439723.31    3762620.54        0.00132                    439773.31
3762620.54        0.00150
         439823.31    3762620.54        0.00169                    439873.31
3762620.54        0.00188
         439573.31    3762670.54        0.00080                    439623.31
3762670.54        0.00088
         439673.31    3762670.54        0.00098                    439723.31
3762670.54        0.00108
         439773.31    3762670.54        0.00117                    439823.31
3762670.54        0.00125
         439873.31    3762670.54        0.00132                    439152.35
3761448.92        0.00015
         439202.35    3761448.92        0.00015                    439252.35
3761448.92        0.00016
         439302.35    3761448.92        0.00017                    439352.35
3761448.92        0.00018
         439402.35    3761448.92        0.00019                    439452.35
3761448.92        0.00021
         439502.35    3761448.92        0.00024                    439552.35
3761448.92        0.00027
         439152.35    3761498.92        0.00016                    439202.35
3761498.92        0.00017
         439252.35    3761498.92        0.00017                    439302.35
3761498.92        0.00018
         439352.35    3761498.92        0.00019                    439402.35
3761498.92        0.00020
         439452.35    3761498.92        0.00022                    439502.35
3761498.92        0.00024
         439552.35    3761498.92        0.00027                    439152.35
3761548.92        0.00018
         439202.35    3761548.92        0.00018                    439252.35
3761548.92        0.00018
         439302.35    3761548.92        0.00019                    439352.35
3761548.92        0.00020
         439402.35    3761548.92        0.00021                    439452.35
3761548.92        0.00023
         439502.35    3761548.92        0.00025                    439552.35
3761548.92        0.00028
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439152.35	3761598.92	0.00019	439202.35	3761598.92	0.00020
439252.35	3761598.92	0.00020	439302.35	3761598.92	0.00021
439352.35	3761598.92	0.00021	439402.35	3761598.92	0.00022
439452.35	3761598.92	0.00024	439502.35	3761598.92	0.00026
439552.35	3761598.92	0.00029	439152.35	3761648.92	0.00021
439202.35	3761648.92	0.00022	439252.35	3761648.92	0.00022
439302.35	3761648.92	0.00023	439352.35	3761648.92	0.00023
439402.35	3761648.92	0.00024	439452.35	3761648.92	0.00025
439502.35	3761648.92	0.00027	439552.35	3761648.92	0.00030
439152.35	3761698.92	0.00023	439202.35	3761698.92	0.00024
439252.35	3761698.92	0.00025	439302.35	3761698.92	0.00025
439352.35	3761698.92	0.00026	439402.35	3761698.92	0.00027
439452.35	3761698.92	0.00028	439502.35	3761698.92	0.00029
439552.35	3761698.92	0.00032	439152.35	3761748.92	0.00025
439202.35	3761748.92	0.00026	439252.35		

3761748.92 0.00027
439302.35 3761748.92 0.00028 439352.35
3761748.92 0.00029
439402.35 3761748.92 0.00030 439452.35
3761748.92 0.00031
439502.35 3761748.92 0.00032 439552.35
3761748.92 0.00034
439152.35 3761798.92 0.00028 439202.35
3761798.92 0.00029
439252.35 3761798.92 0.00030 439302.35
3761798.92 0.00031
439352.35 3761798.92 0.00032 439402.35
3761798.92 0.00033
439452.35 3761798.92 0.00035 439502.35
3761798.92 0.00036
439552.35 3761798.92 0.00038 439152.35
3761848.92 0.00030
439202.35 3761848.92 0.00032 439252.35
3761848.92 0.00033
439302.35 3761848.92 0.00035 439352.35
3761848.92 0.00036
439402.35 3761848.92 0.00038 439452.35
3761848.92 0.00039
439502.35 3761848.92 0.00041 439552.35
3761848.92 0.00043
439152.35 3761898.92 0.00032 439202.35
3761898.92 0.00034
439252.35 3761898.92 0.00036 439302.35
3761898.92 0.00038
439352.35 3761898.92 0.00040 439402.35
3761898.92 0.00042
439452.35 3761898.92 0.00045 439502.35
3761898.92 0.00047
439552.35 3761898.92 0.00049 439152.35
3761948.92 0.00035
439202.35 3761948.92 0.00037 439252.35
3761948.92 0.00039
439302.35 3761948.92 0.00042 439352.35
3761948.92 0.00045
439402.35 3761948.92 0.00047 439452.35
3761948.92 0.00050
439502.35 3761948.92 0.00054 439552.35
3761948.92 0.00057
439152.35 3761998.92 0.00037 439202.35
3761998.92 0.00040
439252.35 3761998.92 0.00043 439302.35
3761998.92 0.00046
439352.35 3761998.92 0.00049 439402.35
3761998.92 0.00053
439452.35 3761998.92 0.00057 439502.35
3761998.92 0.00061

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                              *** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN   ***
                                  INCLUDING SOURCE(S):   PAREA4   ,

                                       *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                  ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)   CONC   X-COORD (M)
Y-COORD (M)   CONC
 -
- -
         439716.61   3761520.65   0.00042   439766.61
3761520.65   0.00046
         439816.61   3761520.65   0.00050   439866.61
3761520.65   0.00052
         439616.61   3761570.65   0.00033   439666.61

```
3761570.65        0.00038
         439716.61    3761570.65        0.00043                    439766.61
3761570.65        0.00049
         439816.61    3761570.65        0.00054                    439866.61
3761570.65        0.00058
         440451.14    3762893.83        0.00146                    440501.14
3762893.83        0.00180
         440551.14    3762893.83        0.00213                    440601.14
3762893.83        0.00239
         440651.14    3762893.83        0.00257                    440701.14
3762893.83        0.00265
         440751.14    3762893.83        0.00267                    440801.14
3762893.83        0.00264
         440851.14    3762893.83        0.00259                    440451.14
3762943.83        0.00105
         440501.14    3762943.83        0.00129                    440551.14
3762943.83        0.00155
         440601.14    3762943.83        0.00177                    440651.14
3762943.83        0.00195
         440701.14    3762943.83        0.00207                    440751.14
3762943.83        0.00213
         440801.14    3762943.83        0.00213                    440851.14
3762943.83        0.00210
         441116.67    3763135.31        0.00102                    441166.67
3763135.31        0.00101
         441116.67    3763185.31        0.00090                    441166.67
3763185.31        0.00088
         441116.67    3763235.31        0.00079                    441166.67
3763235.31        0.00078
         441116.67    3763285.31        0.00070                    441166.67
3763285.31        0.00069
         441116.67    3763335.31        0.00061                    441166.67
3763335.31        0.00062
         441116.67    3763385.31        0.00054                    441166.67
3763385.31        0.00055
         441116.67    3763435.31        0.00048                    441166.67
3763435.31        0.00049
         440433.43    3762815.13        0.00244                    440483.43
3762815.13        0.00303
         440533.43    3762815.13        0.00352                    440583.43
3762815.13        0.00384
         440633.43    3762815.13        0.00400                    440683.43
3762815.13        0.00401
         440733.43    3762815.13        0.00394                    440783.43
3762815.13        0.00384
         440833.43    3762815.13        0.00370                    440883.43
3762815.13        0.00356
         440933.43    3762815.13        0.00342                    440983.43
3762815.13        0.00327
         440433.43    3762865.13        0.00166                    440483.43
3762865.13        0.00207
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         440533.43    3762865.13        0.00246                      440583.43
3762865.13        0.00277
         440633.43    3762865.13        0.00297                      440683.43
3762865.13        0.00306
         440733.43    3762865.13        0.00307                      440783.43
3762865.13        0.00302
         440833.43    3762865.13        0.00296                      440883.43
3762865.13        0.00287
         440933.43    3762865.13        0.00278                      440983.43
3762865.13        0.00269
         441118.27    3762686.02        0.00416                      441168.27
3762686.02        0.00380
         441118.27    3762736.02        0.00362                      441168.27
3762736.02        0.00336
         441118.27    3762786.02        0.00312                      441168.27
3762786.02        0.00293
         441118.27    3762836.02        0.00266                      441168.27
3762836.02        0.00253
         440411.67    3762093.41        0.00580                      440461.67
3762093.41        0.00608
         440511.67    3762093.41        0.00629                      440561.67
3762093.41        0.00638
         440611.67    3762093.41        0.00634                      440411.67
3762143.41        0.00944
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***      20:40:17

                                   PAGE  35
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN    ***
                                   INCLUDING SOURCE(S):     PAREA4      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

       X-COORD (M)   Y-COORD (M)        CONC                       X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - -
         440461.67    3762143.41        0.00990                      440511.67
3762143.41        0.01007
         440561.67    3762143.41        0.00992                      440611.67
3762143.41        0.00953
         440406.61    3762008.86        0.00307                      440456.61
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3762008.86        0.00318
         440506.61    3762008.86        0.00328                    440556.61
3762008.86        0.00337
         440606.61    3762008.86        0.00343                    440656.61
3762008.86        0.00346
         440706.61    3762008.86        0.00346                    440756.61
3762008.86        0.00342
         440806.61    3762008.86        0.00336                    440856.61
3762008.86        0.00327
         440906.61    3762008.86        0.00316                    440956.61
3762008.86        0.00303
         441006.61    3762008.86        0.00289                    441056.61
3762008.86        0.00276
         441106.61    3762008.86        0.00262                    441156.61
3762008.86        0.00248
         440406.61    3762058.86        0.00435                    440456.61
3762058.86        0.00454
         440506.61    3762058.86        0.00471                    440556.61
3762058.86        0.00482
         440606.61    3762058.86        0.00487                    440656.61
3762058.86        0.00485
         440706.61    3762058.86        0.00476                    440756.61
3762058.86        0.00463
         440806.61    3762058.86        0.00446                    440856.61
3762058.86        0.00425
         440906.61    3762058.86        0.00403                    440956.61
3762058.86        0.00380
         441006.61    3762058.86        0.00357                    441056.61
3762058.86        0.00335
         441106.61    3762058.86        0.00314                    441156.61
3762058.86        0.00294
         440191.38    3762138.44        0.00836                    440241.38
3762138.44        0.00853
         440291.38    3762138.44        0.00831                    440341.38
3762138.44        0.00834
         440191.38    3762188.44        0.01311                    440241.38
3762188.44        0.01421
         440291.38    3762188.44        0.01438                    440341.38
3762188.44        0.01482
         440191.38    3762238.44        0.02261                    440241.38
3762238.44        0.02728
         440291.38    3762238.44        0.03035                    440341.38
3762238.44        0.03244
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       20:40:17

                                  PAGE  36
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440407.86	3761497.84	2.80561	439943.36	3761716.33	3.89736
439170.17	3763092.51	1.30174	439220.17	3763092.51	1.34248
439270.17	3763092.51	1.41546	439320.17	3763092.51	1.47129
439370.17	3763092.51	1.54869	439420.17	3763092.51	1.64543
439470.17	3763092.51	1.77836	439520.17	3763092.51	1.87932
439570.17	3763092.51	1.96813	439620.17	3763092.51	2.02763
439670.17	3763092.51	2.07672	439720.17	3763092.51	2.14250
439770.17	3763092.51	2.23483	439820.17	3763092.51	2.32025
439870.17	3763092.51	2.40067	439170.17	3763142.51	1.21633
439220.17	3763142.51	1.25604	439270.17	3763142.51	1.33232
439320.17	3763142.51	1.37675	439370.17	3763142.51	1.44676
439420.17	3763142.51	1.54615	439470.17	3763142.51	1.60002
439520.17	3763142.51	1.67287	439570.17	3763142.51	1.77413
439620.17	3763142.51	1.85133	439670.17	3763142.51	1.88883
439720.17	3763142.51	1.95419	439770.17	3763142.51	2.02206

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         439820.17    3763142.51        2.08218                    439870.17
3763142.51        2.14022
         439170.17    3763192.51        1.14148                    439220.17
3763192.51        1.18988
         439270.17    3763192.51        1.25245                    439320.17
3763192.51        1.29723
         439370.17    3763192.51        1.36162                    439420.17
3763192.51        1.43972
         439470.17    3763192.51        1.49372                    439520.17
3763192.51        1.55985
         439570.17    3763192.51        1.63128                    439620.17
3763192.51        1.70590
         439670.17    3763192.51        1.72756                    439720.17
3763192.51        1.76089
         439770.17    3763192.51        1.80687                    439820.17
3763192.51        1.86163
         439870.17    3763192.51        1.91447                    439170.17
3763242.51        1.07276
         439220.17    3763242.51        1.11810                    439270.17
3763242.51        1.17268
         439320.17    3763242.51        1.22166                    439370.17
3763242.51        1.27669
         439420.17    3763242.51        1.33335                    439470.17
3763242.51        1.37867
         439520.17    3763242.51        1.43550                    439570.17
3763242.51        1.49602
         439620.17    3763242.51        1.55714                    439670.17
3763242.51        1.59272
         439720.17    3763242.51        1.61547                    439770.17
3763242.51        1.64763
         439820.17    3763242.51        1.68149                    439870.17
3763242.51        1.72115
         439170.17    3763292.51        1.01043                    439220.17
3763292.51        1.03881
         439270.17    3763292.51        1.08243                    439320.17
3763292.51        1.13395
         439370.17    3763292.51        1.19479                    439420.17
3763292.51        1.22952
         439470.17    3763292.51        1.26845                    439520.17
3763292.51        1.30906
         439570.17    3763292.51        1.37536                    439620.17
3763292.51        1.41831
         439670.17    3763292.51        1.45889                    439720.17
3763292.51        1.47919
         439770.17    3763292.51        1.49032                    439820.17
3763292.51        1.52164
         439870.17    3763292.51        1.55973                    439170.17
3763342.51        0.95276
         439220.17    3763342.51        0.98056                    439270.17
3763342.51        1.02890
```

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439320.17	3763342.51	1.07040	439370.17	3763342.51	1.12160
439420.17	3763342.51	1.15428	439470.17	3763342.51	1.18515
439520.17	3763342.51	1.21867	439570.17	3763342.51	1.26571
439620.17	3763342.51	1.31300	439670.17	3763342.51	1.34098
439720.17	3763342.51	1.36079	439770.17	3763342.51	1.36397
439820.17	3763342.51	1.38865	439870.17	3763342.51	1.41765
439170.17	3763392.51	0.89912	439220.17	3763392.51	0.92769
439270.17	3763392.51	0.97174	439320.17	3763392.51	0.99829
439370.17	3763392.51	1.03863	439420.17	3763392.51	1.06344
439470.17	3763392.51	1.09058	439520.17	3763392.51	1.13490
439570.17	3763392.51	1.17334	439620.17	3763392.51	1.21381
439670.17	3763392.51	1.23114	439720.17		

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3763392.51        1.25561
         439770.17    3763392.51        1.26137                   439820.17
3763392.51        1.27748
         439870.17    3763392.51        1.29821                   439170.17
3763442.51        0.84966
         439220.17    3763442.51        0.87588                   439270.17
3763442.51        0.91582
         439320.17    3763442.51        0.94534                   439370.17
3763442.51        0.97212
         439420.17    3763442.51        1.00054                   439470.17
3763442.51        1.02372
         439520.17    3763442.51        1.06078                   439570.17
3763442.51        1.08899
         439620.17    3763442.51        1.12070                   439670.17
3763442.51        1.13862
         439720.17    3763442.51        1.15409                   439770.17
3763442.51        1.16265
         439820.17    3763442.51        1.17684                   439870.17
3763442.51        1.19645
         439203.20    3762911.16        1.67282                   439253.20
3762911.16        1.78167
         439303.20    3762911.16        1.90144                   439353.20
3762911.16        2.03435
         439403.20    3762911.16        2.17950                   439453.20
3762911.16        2.33913
         439503.20    3762911.16        2.51601                   439553.20
3762911.16        2.70981
         439203.20    3762961.16        1.61700                   439253.20
3762961.16        1.71503
         439303.20    3762961.16        1.81131                   439353.20
3762961.16        1.94163
         439403.20    3762961.16        2.08074                   439453.20
3762961.16        2.21597
         439503.20    3762961.16        2.38214                   439553.20
3762961.16        2.54817
         439203.20    3763011.16        1.51065                   439253.20
3763011.16        1.58417
         439303.20    3763011.16        1.65515                   439353.20
3763011.16        1.74050
         439403.20    3763011.16        1.96868                   439453.20
3763011.16        2.07160
         439503.20    3763011.16        2.23507                   439553.20
3763011.16        2.33414
         439203.20    3763061.16        1.40418                   439253.20
3763061.16        1.43541
         439303.20    3763061.16        1.50728                   439353.20
3763061.16        1.57803
         439403.20    3763061.16        1.68435                   439453.20
3763061.16        1.80743
         439503.20    3763061.16        1.96823                   439553.20
3763061.16        2.03216
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439496.01	3762392.48	3.57289	439546.01	3762392.48	4.00068
439196.01	3762442.48	2.04835	439246.01	3762442.48	2.21746
439296.01	3762442.48	2.41129	439346.01	3762442.48	2.63278
439396.01	3762442.48	2.88907	439446.01	3762442.48	3.18834
439496.01	3762442.48	3.54033	439546.01	3762442.48	3.95927
439196.01	3762492.48	2.02528	439246.01	3762492.48	2.19064
439296.01	3762492.48	2.37987	439346.01	3762492.48	2.59673
439396.01	3762492.48	2.84632	439446.01	3762492.48	3.13676

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         439496.01    3762492.48        3.47960                    439546.01
3762492.48        3.88563
         439196.01    3762542.48        1.99584                    439246.01
3762542.48        2.15632
         439296.01    3762542.48        2.33952                    439346.01
3762542.48        2.54854
         439396.01    3762542.48        2.78977                    439446.01
3762542.48        3.06921
         439496.01    3762542.48        3.39735                    439546.01
3762542.48        3.78346
         439196.01    3762592.48        1.96093                    439246.01
3762592.48        2.11656
         439296.01    3762592.48        2.29257                    439346.01
3762592.48        2.49285
         439396.01    3762592.48        2.72270                    439446.01
3762592.48        2.98864
         439496.01    3762592.48        3.29866                    439546.01
3762592.48        3.66145
         439196.01    3762642.48        1.92148                    439246.01
3762642.48        2.07059
         439296.01    3762642.48        2.23878                    439346.01
3762642.48        2.42920
         439396.01    3762642.48        2.64735                    439446.01
3762642.48        2.89791
         439496.01    3762642.48        3.18747                    439546.01
3762642.48        3.52423
         439196.01    3762692.48        1.87815                    439246.01
3762692.48        2.02031
         439296.01    3762692.48        2.18001                    439346.01
3762692.48        2.36059
         439396.01    3762692.48        2.56549                    439446.01
3762692.48        2.79917
         439496.01    3762692.48        3.06680                    439546.01
3762692.48        3.37583
         439196.01    3762742.48        1.83161                    439246.01
3762742.48        1.96658
         439296.01    3762742.48        2.11715                    439346.01
3762742.48        2.28658
         439396.01    3762742.48        2.47759                    439446.01
3762742.48        2.69380
         439496.01    3762742.48        2.93879                    439546.01
3762742.48        3.21962
         439196.01    3762792.48        1.78240                    439246.01
3762792.48        1.90995
         439296.01    3762792.48        2.05090                    439346.01
3762792.48        2.20848
         439396.01    3762792.48        2.38509                    439446.01
3762792.48        2.58383
         439496.01    3762792.48        2.80652                    439546.01
3762792.48        3.05920
         439196.01    3762842.48        1.73103                    439246.01
```

3762842.48 1.85059
  439296.01 3762842.48 1.98222 439346.01
3762842.48 2.12821
  439396.01 3762842.48 2.29034 439446.01
3762842.48 2.47130
  439496.01 3762842.48 2.67227 439546.01
3762842.48 2.89799
  439573.31 3762470.54 4.17898 439623.31
3762470.54 4.73264
  439673.31 3762470.54 5.41216 439723.31
3762470.54 6.26035
  439773.31 3762470.54 7.34283 439823.31
3762470.54 8.75407

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE PERIOD (43848 HRS) AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439873.31	3762470.54	10.65510	439573.31	3762520.54	4.07733
439623.31	3762520.54	4.60223	439673.31	3762520.54	5.24359
439723.31	3762520.54	6.03792	439773.31	3762520.54	7.03888
439823.31	3762520.54	8.32466	439873.31	3762520.54	10.02425
439573.31	3762570.54	3.94930	439623.31		

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3762570.54        4.43954
         439673.31    3762570.54        5.03200                    439723.31
3762570.54        5.75735
         439773.31    3762570.54        6.65866                    439823.31
3762570.54        7.79650
         439873.31    3762570.54        9.25611                    439573.31
3762620.54        3.80160
         439623.31    3762620.54        4.25217                    439673.31
3762620.54        4.79057
         439723.31    3762620.54        5.44019                    439773.31
3762620.54        6.23372
         439823.31    3762620.54        7.21214                    439873.31
3762620.54        8.42679
         439573.31    3762670.54        3.63956                    439623.31
3762670.54        4.04683
         439673.31    3762670.54        4.52887                    439723.31
3762670.54        5.10107
         439773.31    3762670.54        5.78394                    439823.31
3762670.54        6.60632
         439873.31    3762670.54        7.59764                    439152.35
3761448.92        1.31135
         439202.35    3761448.92        1.36693                    439252.35
3761448.92        1.42770
         439302.35    3761448.92        1.49069                    439352.35
3761448.92        1.55617
         439402.35    3761448.92        1.62369                    439452.35
3761448.92        1.69262
         439502.35    3761448.92        1.76548                    439552.35
3761448.92        1.83707
         439152.35    3761498.92        1.35906                    439202.35
3761498.92        1.42283
         439252.35    3761498.92        1.49219                    439302.35
3761498.92        1.55933
         439352.35    3761498.92        1.63036                    439402.35
3761498.92        1.70454
         439452.35    3761498.92        1.78115                    439502.35
3761498.92        1.86425
         439552.35    3761498.92        1.94701                    439152.35
3761548.92        1.40693
         439202.35    3761548.92        1.47600                    439252.35
3761548.92        1.55058
         439302.35    3761548.92        1.62507                    439352.35
3761548.92        1.70267
         439402.35    3761548.92        1.78748                    439452.35
3761548.92        1.87520
         439502.35    3761548.92        1.96677                    439552.35
3761548.92        2.06286
         439152.35    3761598.92        1.45467                    439202.35
3761598.92        1.52842
         439252.35    3761598.92        1.60925                    439302.35
3761598.92        1.69386
```

```
         439352.35    3761598.92        1.78006                      439402.35
3761598.92        1.87574
         439452.35    3761598.92        1.97638                      439502.35
3761598.92        2.07844
         439552.35    3761598.92        2.18915                      439152.35
3761648.92        1.50139
         439202.35    3761648.92        1.58229                      439252.35
3761648.92        1.67060
         439302.35    3761648.92        1.76448                      439352.35
3761648.92        1.86233
         439402.35    3761648.92        1.96899                      439452.35
3761648.92        2.08099
         439502.35    3761648.92        2.20090                      439552.35
3761648.92        2.32635
         439152.35    3761698.92        1.54804                      439202.35
3761698.92        1.63483
         439252.35    3761698.92        1.72834                      439302.35
3761698.92        1.83193
         439352.35    3761698.92        1.94384                      439402.35
3761698.92        2.06488
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        20:40:17

                                    PAGE  40
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL       ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                               ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

       X-COORD (M)   Y-COORD (M)        CONC                         X-COORD (M)
Y-COORD (M)        CONC
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - -
         439452.35    3761698.92        2.18626                      439502.35
3761698.92        2.32462
```

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         439552.35    3761698.92        2.47009                    439152.35
3761748.92        1.59296
         439202.35    3761748.92        1.68750                    439252.35
3761748.92        1.78696
         439302.35    3761748.92        1.90027                    439352.35
3761748.92        2.02176
         439402.35    3761748.92        2.15400                    439452.35
3761748.92        2.29364
         439502.35    3761748.92        2.44268                    439552.35
3761748.92        2.61119
         439152.35    3761798.92        1.63738                    439202.35
3761798.92        1.73970
         439252.35    3761798.92        1.84892                    439302.35
3761798.92        1.97229
         439352.35    3761798.92        2.10111                    439402.35
3761798.92        2.24501
         439452.35    3761798.92        2.40604                    439502.35
3761798.92        2.57058
         439552.35    3761798.92        2.76285                    439152.35
3761848.92        1.68106
         439202.35    3761848.92        1.78954                    439252.35
3761848.92        1.90579
         439302.35    3761848.92        2.03706                    439352.35
3761848.92        2.17720
         439402.35    3761848.92        2.34060                    439452.35
3761848.92        2.51518
         439502.35    3761848.92        2.69927                    439552.35
3761848.92        2.91717
         439152.35    3761898.92        1.72415                    439202.35
3761898.92        1.83819
         439252.35    3761898.92        1.96199                    439302.35
3761898.92        2.10594
         439352.35    3761898.92        2.26021                    439402.35
3761898.92        2.43198
         439452.35    3761898.92        2.62984                    439502.35
3761898.92        2.84392
         439552.35    3761898.92        3.08277                    439152.35
3761948.92        1.76436
         439202.35    3761948.92        1.88425                    439252.35
3761948.92        2.01525
         439302.35    3761948.92        2.16964                    439352.35
3761948.92        2.33772
         439402.35    3761948.92        2.52219                    439452.35
3761948.92        2.73853
         439502.35    3761948.92        2.97840                    439552.35
3761948.92        3.24723
         439152.35    3761998.92        1.80205                    439202.35
3761998.92        1.92708
         439252.35    3761998.92        2.06533                    439302.35
3761998.92        2.22935
         439352.35    3761998.92        2.41124                    439402.35
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3761998.92        2.60851
         439452.35    3761998.92        2.83801                        439502.35
3761998.92        3.09840
         439552.35    3761998.92        3.39709                        439152.35
3762048.92        1.83671
         439202.35    3762048.92        1.97067                        439252.35
3762048.92        2.12005
         439302.35    3762048.92        2.28836                        439352.35
3762048.92        2.47801
         439402.35    3762048.92        2.69111                        439452.35
3762048.92        2.93785
         439502.35    3762048.92        3.21996                        439552.35
3762048.92        3.54445
         439616.61    3761420.65        1.86426                        439666.61
3761420.65        1.93474
         439716.61    3761420.65        2.00484                        439766.61
3761420.65        2.07471
         439816.61    3761420.65        2.14149                        439866.61
3761420.65        2.21046
         439616.61    3761470.65        1.98238                        439666.61
3761470.65        2.06180
         439716.61    3761470.65        2.14235                        439766.61
3761470.65        2.22296
         439816.61    3761470.65        2.30074                        439866.61
3761470.65        2.38250
         439616.61    3761520.65        2.11024                        439666.61
3761520.65        2.20226
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***       20:40:17

                                    PAGE  41
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                                ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **
```

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
439716.61	3761520.65	2.29556	439766.61	3761520.65	2.39141
439816.61	3761520.65	2.48338	439866.61	3761520.65	2.57789
439616.61	3761570.65	2.25097	439666.61	3761570.65	2.35777
439716.61	3761570.65	2.46704	439766.61	3761570.65	2.57943
439816.61	3761570.65	2.69005	439866.61	3761570.65	2.79839
440451.14	3762893.83	5.56711	440501.14	3762893.83	5.54073
440551.14	3762893.83	5.53032	440601.14	3762893.83	5.42014
440651.14	3762893.83	5.36447	440701.14	3762893.83	5.32702
440751.14	3762893.83	5.32132	440801.14	3762893.83	5.26698
440851.14	3762893.83	5.22044	440451.14	3762943.83	4.61126
440501.14	3762943.83	4.52266	440551.14	3762943.83	4.54544
440601.14	3762943.83	4.45232	440651.14	3762943.83	4.47033
440701.14	3762943.83	4.46796	440751.14	3762943.83	4.50764
440801.14	3762943.83	4.44848	440851.14	3762943.83	4.39886
441116.67	3763135.31	2.55024	441166.67	3763135.31	2.54743
441116.67	3763185.31	2.26956	441166.67	3763185.31	2.27710
441116.67	3763235.31	2.03162	441166.67	3763235.31	2.04235
441116.67	3763285.31	1.81473	441166.67	3763285.31	1.83458
441116.67	3763335.31	1.63185	441166.67	3763335.31	1.64951
441116.67	3763385.31	1.47596	441166.67	3763385.31	1.48715
441116.67	3763435.31	1.33838	441166.67	3763435.31	1.35173
440433.43	3762815.13	8.36473	440483.43	3762815.13	8.20746
440533.43	3762815.13	8.10012	440583.43	3762815.13	7.82755

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         440633.43    3762815.13        7.67045                        440683.43
3762815.13        7.47306
         440733.43    3762815.13        7.22857                        440783.43
3762815.13        7.00412
         440833.43    3762815.13        6.72253                        440883.43
3762815.13        6.43934
         440933.43    3762815.13        6.12756                        440983.43
3762815.13        5.80850
         440433.43    3762865.13        6.40025                        440483.43
3762865.13        6.42462
         440533.43    3762865.13        6.37395                        440583.43
3762865.13        6.25674
         440633.43    3762865.13        6.14439                        440683.43
3762865.13        6.06997
         440733.43    3762865.13        5.96762                        440783.43
3762865.13        5.87788
         440833.43    3762865.13        5.76146                        440883.43
3762865.13        5.59783
         440933.43    3762865.13        5.39781                        440983.43
3762865.13        5.17890
         441118.27    3762686.02        5.98059                        441168.27
3762686.02        5.52481
         441118.27    3762736.02        5.61221                        441168.27
3762736.02        5.22353
         441118.27    3762786.02        5.21649                        441168.27
3762786.02        4.89189
         441118.27    3762836.02        4.80297                        441168.27
3762836.02        4.54183
         440411.67    3762093.41       15.39004                        440461.67
3762093.41       13.84303
         440511.67    3762093.41       12.44650                        440561.67
3762093.41       11.21783
         440611.67    3762093.41       10.15565                        440411.67
3762143.41       19.96144
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***       20:40:17

                                  PAGE  42
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE PERIOD ( 43848 HRS) AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL        ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
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, L0013598   , L0013599   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	X-COORD (M)	Y-COORD (M)	CONC
440461.67	3762143.41	17.53496	440511.67	3762143.41	15.48645
440561.67	3762143.41	13.73629	440611.67	3762143.41	12.29089
440406.61	3762008.86	10.71133	440456.61	3762008.86	9.94550
440506.61	3762008.86	9.16104	440556.61	3762008.86	8.41365
440606.61	3762008.86	7.74170	440656.61	3762008.86	7.14725
440706.61	3762008.86	6.62577	440756.61	3762008.86	6.16489
440806.61	3762008.86	5.73426	440856.61	3762008.86	5.36666
440906.61	3762008.86	5.04153	440956.61	3762008.86	4.73067
441006.61	3762008.86	4.44725	441056.61	3762008.86	4.18100
441106.61	3762008.86	3.94200	441156.61	3762008.86	3.72284
440406.61	3762058.86	13.23117	440456.61	3762058.86	12.07381
440506.61	3762058.86	10.96893	440556.61	3762058.86	9.96902
440606.61	3762058.86	9.08848	440656.61	3762058.86	8.33166
440706.61	3762058.86	7.67859	440756.61	3762058.86	7.09503
440806.61	3762058.86	6.55809	440856.61	3762058.86	6.09331
440906.61	3762058.86	5.67786	440956.61	3762058.86	5.29375
441006.61	3762058.86	4.94358	441056.61	3762058.86	4.62569
441106.61	3762058.86	4.33603	441156.61	3762058.86	4.07230
440191.38	3762138.44	22.79170	440241.38	3762138.44	24.26973
440291.38	3762138.44	24.18992	440341.38		

3762138.44   22.51711
         440191.38   3762188.44   32.46159   440241.38
3762188.44   35.41290
         440291.38   3762188.44   35.59221   440341.38
3762188.44   32.19081
         440191.38   3762238.44   49.84410   440241.38
3762238.44   58.76580
         440291.38   3762238.44   58.91022   440341.38
3762238.44   49.81335

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                   INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440407.86   3761497.84   21.27145 (15122901)   439943.36
3761716.33   28.31350 (16092523)
        439170.17   3763092.51   17.39101 (15072001)   439220.17
3763092.51   18.77305 (15091002)
        439270.17   3763092.51   19.57275 (16102806)   439320.17
3763092.51   21.06626 (16102806)
        439370.17   3763092.51   22.49432 (15101220)   439420.17
3763092.51   22.68846 (14030901)
        439470.17   3763092.51   23.25582 (13101421)   439520.17
3763092.51   24.41569 (16102418)
        439570.17   3763092.51   25.40402 (15102306)   439620.17
3763092.51   28.24030 (15070104)
        439670.17   3763092.51   30.75481 (14010617)   439720.17

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3763092.51       32.69378  (15031521)
        439770.17   3763092.51       34.29033  (15090205)                439820.17
3763092.51       35.83209  (16102019)
        439870.17   3763092.51       38.82080  (14091524)                439170.17
3763142.51       17.44419  (15010620)
        439220.17   3763142.51       18.96865  (16102806)                439270.17
3763142.51       19.74537  (15101220)
        439320.17   3763142.51       21.46939  (15101220)                439370.17
3763142.51       21.86737  (15101220)
        439420.17   3763142.51       22.28230  (13101421)                439470.17
3763142.51       23.96059  (15102306)
        439520.17   3763142.51       25.23162  (15102306)                439570.17
3763142.51       25.95614  (15070104)
        439620.17   3763142.51       27.51891  (15070104)                439670.17
3763142.51       29.53143  (15031521)
        439720.17   3763142.51       31.52913  (15090205)                439770.17
3763142.51       32.78756  (16102019)
        439820.17   3763142.51       35.21008  (14091524)                439870.17
3763142.51       36.60467  (13090904)
        439170.17   3763192.51       18.06087  (16102806)                439220.17
3763192.51       19.32800  (15101220)
        439270.17   3763192.51       19.82757  (15101220)                439320.17
3763192.51       20.56634  (15101220)
        439370.17   3763192.51       21.32163  (16040804)                439420.17
3763192.51       22.11724  (15102306)
        439470.17   3763192.51       23.39417  (15102306)                439520.17
3763192.51       24.56763  (15070104)
        439570.17   3763192.51       25.73333  (15070104)                439620.17
3763192.51       26.63595  (14010617)
        439670.17   3763192.51       28.95161  (15090205)                439720.17
3763192.51       30.58081  (15100522)
        439770.17   3763192.51       32.55407  (12010219)                439820.17
3763192.51       34.40216  (14091524)
        439870.17   3763192.51       34.89295  (12091522)                439170.17
3763242.51       18.55710  (15101220)
        439220.17   3763242.51       19.17170  (15101220)                439270.17
3763242.51       19.08464  (13102523)
        439320.17   3763242.51       20.11580  (15082702)                439370.17
3763242.51       21.06869  (15082702)
        439420.17   3763242.51       21.77633  (15102306)                439470.17
3763242.51       22.98523  (15070104)
        439520.17   3763242.51       24.17493  (15070104)                439570.17
3763242.51       25.09230  (13111320)
        439620.17   3763242.51       26.15920  (15090205)                439670.17
3763242.51       27.44382  (15100522)
        439720.17   3763242.51       29.36766  (12010219)                439770.17
3763242.51       31.64004  (14091524)
        439820.17   3763242.51       32.69987  (13090904)                439870.17
3763242.51       34.21151  (15100921)
        439170.17   3763292.51       18.47846  (15101220)                439220.17
3763292.51       19.29056  (13102523)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439270.17	3763292.51	20.19594	(15082702)	439320.17	3763292.51	20.77525	(15082702)
439370.17	3763292.51	20.69633	(15102306)	439420.17	3763292.51	21.88726	(16040703)
439470.17	3763292.51	23.28234	(15092402)	439520.17	3763292.51	24.41262	(13111320)
439570.17	3763292.51	24.70704	(15090205)	439620.17	3763292.51	25.67757	(15090205)
439670.17	3763292.51	26.66861	(15031421)	439720.17	3763292.51	28.63518	(12010219)
439770.17	3763292.51	30.70923	(14091524)	439820.17	3763292.51	31.98603	(12091522)
439870.17	3763292.51	33.19738	(15100921)	439170.17	3763342.51	18.23325	(14120303)
439220.17	3763342.51	19.49873	(15082702)	439270.17	3763342.51	19.78692	(15082702)
439320.17	3763342.51	20.15805	(12081704)	439370.17	3763342.51	20.35663	(16040703)
439420.17	3763342.51	21.64012	(15092402)	439470.17	3763342.51	22.74972	(13111320)
439520.17	3763342.51	23.64377	(16072323)	439570.17	3763342.51	24.37823	(15090205)

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        439620.17   3763342.51       24.80967  (15031421)               439670.17
3763342.51       26.22674  (12010219)
        439720.17   3763342.51       27.98730  (14091524)               439770.17
3763342.51       29.63280  (15092601)
        439820.17   3763342.51       31.13478  (15081402)               439870.17
3763342.51       31.88782  (15070102)
        439170.17   3763392.51       18.55099  (15082702)               439220.17
3763392.51       19.34483  (15082702)
        439270.17   3763392.51       19.46004  (12081704)               439320.17
3763392.51       20.27744  (15063003)
        439370.17   3763392.51       20.88780  (15092402)               439420.17
3763392.51       21.78028  (15062224)
        439470.17   3763392.51       22.83028  (16072323)               439520.17
3763392.51       23.17233  (15090205)
        439570.17   3763392.51       23.65258  (15031421)               439620.17
3763392.51       24.20187  (12010219)
        439670.17   3763392.51       25.75573  (14091524)               439720.17
3763392.51       26.79641  (13090904)
        439770.17   3763392.51       28.55992  (12091522)               439820.17
3763392.51       29.91165  (15081402)
        439870.17   3763392.51       30.86458  (15070102)               439170.17
3763442.51       18.49577  (15082702)
        439220.17   3763442.51       19.40035  (12081704)               439270.17
3763442.51       19.18468  (15063003)
        439320.17   3763442.51       20.02064  (15062721)               439370.17
3763442.51       20.50435  (16100302)
        439420.17   3763442.51       21.13886  (16072323)               439470.17
3763442.51       22.22780  (16072323)
        439520.17   3763442.51       22.53627  (16072103)               439570.17
3763442.51       23.45011  (13091323)
        439620.17   3763442.51       24.03273  (12010219)               439670.17
3763442.51       25.20810  (14091524)
        439720.17   3763442.51       26.14477  (15092601)               439770.17
3763442.51       27.81162  (15081402)
        439820.17   3763442.51       28.41873  (16082406)               439870.17
3763442.51       29.60971  (13082824)
        439203.20   3762911.16       15.95740  (15090919)               439253.20
3762911.16       16.71901  (15090919)
        439303.20   3762911.16       17.31866  (15090919)               439353.20
3762911.16       18.25775  (15021103)
        439403.20   3762911.16       19.23882  (16122818)               439453.20
3762911.16       20.33490  (15031221)
        439503.20   3762911.16       22.16950  (15031221)               439553.20
3762911.16       23.57874  (15031221)
        439203.20   3762961.16       15.20141  (15090919)               439253.20
3762961.16       16.03991  (15021103)
        439303.20   3762961.16       17.42272  (16122818)               439353.20
3762961.16       17.80506  (16122818)
        439403.20   3762961.16       18.80042  (15031221)               439453.20
3762961.16       20.49410  (15031221)
        439503.20   3762961.16       21.11872  (15031221)               439553.20
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3762961.16   22.30262 (13101603)
        439203.20   3763011.16   15.90524 (16122818)   439253.20
3763011.16   17.21962 (15072001)
        439303.20   3763011.16   18.86994 (15072001)   439353.20
3763011.16   20.23625 (15031221)
        439403.20   3763011.16   18.98830 (15031221)   439453.20
3763011.16   20.03166 (12020718)
        439503.20   3763011.16   20.71949 (13101603)   439553.20
3763011.16   22.71153 (13101421)
        439203.20   3763061.16   17.20793 (15072001)   439253.20
3763061.16   19.46634 (15072001)
        439303.20   3763061.16   20.55638 (15010620)   439353.20
3763061.16   21.88263 (16102806)
        439403.20   3763061.16   22.97080 (15101220)   439453.20
3763061.16   23.40883 (14030901)
        439503.20   3763061.16   22.87926 (13101421)   439553.20
3763061.16   25.84600 (16102418)
        439196.01   3762392.48   18.27398 (16102417)   439246.01
3762392.48   19.50044 (16102417)
        439296.01   3762392.48   20.86470 (16102417)   439346.01
3762392.48   22.39853 (16102417)
        439396.01   3762392.48   24.12866 (16102417)   439446.01
3762392.48   26.07632 (16102417)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2ONSITE ***
                                  INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
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        439196.01   3762742.48       17.33308  (15063019)                439246.01
3762742.48       18.30319  (15063019)
        439296.01   3762742.48       19.22429  (15063019)                439346.01
3762742.48       20.13907  (16122919)
        439396.01   3762742.48       21.66840  (15112017)                439446.01
3762742.48       23.32530  (15112017)
        439496.01   3762742.48       24.87143  (15090919)                439546.01
3762742.48       27.07212  (15090919)
        439196.01   3762792.48       16.47273  (15063019)                439246.01
3762792.48       17.42696  (15112017)
        439296.01   3762792.48       18.67367  (15112017)                439346.01
3762792.48       19.86156  (15112017)
        439396.01   3762792.48       21.09212  (15090919)                439446.01
3762792.48       22.71081  (15090919)
        439496.01   3762792.48       24.10711  (15090919)                439546.01
3762792.48       25.37423  (15021103)
        439196.01   3762842.48       16.29348  (15112017)                439246.01
3762842.48       17.18067  (15112017)
        439296.01   3762842.48       18.19661  (15090919)                439346.01
3762842.48       19.42088  (15090919)
        439396.01   3762842.48       20.48092  (15090919)                439446.01
3762842.48       21.37435  (15021103)
        439496.01   3762842.48       22.65925  (15021103)                439546.01
3762842.48       24.15495  (16122818)
        439573.31   3762470.54       31.80574  (15051306)                439623.31
3762470.54       35.00453  (15051306)
        439673.31   3762470.54       38.74792  (16022406)                439723.31
3762470.54       43.39535  (16022406)
        439773.31   3762470.54       49.24909  (13122517)                439823.31
3762470.54       56.41795  (13122517)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                         ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***         20:40:17

                                    PAGE  46
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	65.15839	(13122517)	439573.31	3762520.54	31.28710	(13122517)
439623.31	3762520.54	34.34505	(12112807)	439673.31	3762520.54	38.31590	(15031224)
439723.31	3762520.54	43.14644	(15031224)	439773.31	3762520.54	48.60271	(15031223)
439823.31	3762520.54	56.26825	(15063019)	439873.31	3762520.54	65.39485	(15063019)
439573.31	3762570.54	31.05441	(15031224)	439623.31	3762570.54	34.29443	(15063019)
439673.31	3762570.54	38.48336	(15063019)	439723.31	3762570.54	43.00028	(15063019)
439773.31	3762570.54	47.70027	(15063019)	439823.31	3762570.54	53.18821	(15112017)
439873.31	3762570.54	60.68199	(15090919)	439573.31	3762620.54	31.11321	(15063019)
439623.31	3762620.54	33.75387	(15063019)	439673.31	3762620.54	36.29242	(15063019)
439723.31	3762620.54	40.56929	(15112017)	439773.31	3762620.54	45.14137	(15090919)
439823.31	3762620.54	50.69316	(15090919)	439873.31	3762620.54	55.76273	(15021103)
439573.31	3762670.54	29.45271	(15112017)	439623.31	3762670.54	32.21189	(15112017)
439673.31	3762670.54	35.30041	(15090919)	439723.31	3762670.54	38.81325	(15090919)
439773.31	3762670.54	41.87424	(15021103)	439823.31	3762670.54	46.24971	(16122818)
439873.31	3762670.54	52.98019	(15031221)	439152.35	3761448.92	11.25523	(14042901)
439202.35	3761448.92	11.83913	(14042901)	439252.35	3761448.92	12.27710	(14042901)
439302.35	3761448.92	12.61230	(16020619)	439352.35	3761448.92	13.09058	(16021419)
439402.35	3761448.92	13.49199	(16021419)	439452.35	3761448.92	13.92143	(12010822)
439502.35	3761448.92	14.37528	(14110501)	439552.35	3761448.92	15.01016	(15031301)
439152.35	3761498.92	11.85770	(14043002)	439202.35	3761498.92	12.10462	(14043002)
439252.35	3761498.92	12.79800	(14042901)	439302.35	3761498.92	13.26567	(14042901)
439352.35	3761498.92	13.60331	(16020619)	439402.35			

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3761498.92       14.11775  (16021419)
        439452.35   3761498.92       14.52305  (16021419)                439502.35
3761498.92       15.10376  (12010822)
        439552.35   3761498.92       15.60304  (14110501)                439152.35
3761548.92       12.22330  (13101522)
        439202.35   3761548.92       12.71031  (14043002)                439252.35
3761548.92       13.08401  (14043002)
        439302.35   3761548.92       13.63808  (14042901)                439352.35
3761548.92       14.20553  (14042901)
        439402.35   3761548.92       14.64534  (16020619)                439452.35
3761548.92       15.24827  (16021419)
        439502.35   3761548.92       15.73733  (16021419)                439552.35
3761548.92       16.39844  (12010822)
        439152.35   3761598.92       12.60317  (13101522)                439202.35
3761598.92       13.11021  (13101522)
        439252.35   3761598.92       13.63524  (14043002)                439302.35
3761598.92       14.09892  (14043002)
        439352.35   3761598.92       14.61035  (14042901)                439402.35
3761598.92       15.40710  (14042901)
        439452.35   3761598.92       15.93382  (16020619)                439502.35
3761598.92       16.61047  (16021419)
        439552.35   3761598.92       17.20675  (16021419)                439152.35
3761648.92       12.94110  (16101918)
        439202.35   3761648.92       13.40674  (13101522)                439252.35
3761648.92       14.13688  (13101522)
        439302.35   3761648.92       14.69010  (14043002)                439352.35
3761648.92       15.28938  (14043002)
        439402.35   3761648.92       15.87202  (14042901)                439452.35
3761648.92       16.82695  (14042901)
        439502.35   3761648.92       17.44908  (16020619)                439552.35
3761648.92       18.33433  (16021419)
        439152.35   3761698.92       13.44890  (16101918)                439202.35
3761698.92       13.97522  (16101918)
        439252.35   3761698.92       14.30754  (16101918)                439302.35
3761698.92       15.19842  (13101522)
        439352.35   3761698.92       15.92349  (13101522)                439402.35
3761698.92       16.74902  (14043002)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        20:40:17

                                   PAGE  47
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
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                 L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                 L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439452.35   3761698.92       17.20062  (14042901)               439502.35
3761698.92       18.47095  (14042901)
        439552.35   3761698.92       19.23641  (16020619)               439152.35
3761748.92       13.48092  (13100622)
        439202.35   3761748.92       14.34018  (16101918)               439252.35
3761748.92       15.05029  (16101918)
        439302.35   3761748.92       15.66514  (16101918)               439352.35
3761748.92       16.38905  (13101522)
        439402.35   3761748.92       17.36421  (13101522)               439452.35
3761748.92       18.18065  (14043002)
        439502.35   3761748.92       18.83826  (14043002)               439552.35
3761748.92       20.27351  (14042901)
        439152.35   3761798.92       14.10824  (16112908)               439202.35
3761798.92       14.68520  (13100622)
        439252.35   3761798.92       15.25613  (16101918)               439302.35
3761798.92       16.35361  (16101918)
        439352.35   3761798.92       17.14996  (16101918)               439402.35
3761798.92       17.72751  (16101918)
        439452.35   3761798.92       19.03124  (13101522)               439502.35
3761798.92       19.88097  (14043002)
        439552.35   3761798.92       21.04950  (14043002)               439152.35
3761848.92       14.64035  (14051322)
        439202.35   3761848.92       15.33491  (14051322)               439252.35
3761848.92       15.91844  (16112908)
        439302.35   3761848.92       16.62481  (13100622)               439352.35
3761848.92       17.49161  (16101918)
        439402.35   3761848.92       18.80853  (16101918)               439452.35
3761848.92       19.75727  (16101918)
        439502.35   3761848.92       20.72925  (13101522)               439552.35
3761848.92       22.18767  (13101522)
        439152.35   3761898.92       14.90321  (15031321)               439202.35
3761898.92       15.62419  (14051322)
        439252.35   3761898.92       16.55047  (14051322)               439302.35
3761898.92       17.51023  (14051322)
        439352.35   3761898.92       18.29621  (16112908)               439402.35
3761898.92       19.15797  (13100622)
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        439452.35   3761898.92       20.65386  (16101918)                439502.35
3761898.92       22.09119  (16101918)
        439552.35   3761898.92       23.12439  (16101918)                439152.35
3761948.92       15.11650  (15071824)
        439202.35   3761948.92       16.03047  (15031321)                439252.35
3761948.92       16.88747  (15031321)
        439302.35   3761948.92       17.84333  (14051322)                439352.35
3761948.92       19.14969  (14051322)
        439402.35   3761948.92       20.24970  (14051322)                439452.35
3761948.92       21.42942  (16112908)
        439502.35   3761948.92       22.63884  (13100622)                439552.35
3761948.92       24.71798  (16101918)
        439152.35   3761998.92       15.55248  (15071824)                439202.35
3761998.92       16.41641  (16092601)
        439252.35   3761998.92       17.22647  (16092601)                439302.35
3761998.92       18.32447  (15031321)
        439352.35   3761998.92       19.65313  (15031321)                439402.35
3761998.92       20.74824  (15031321)
        439452.35   3761998.92       22.39958  (14051322)                439502.35
3761998.92       24.00131  (14051322)
        439552.35   3761998.92       25.50310  (13100622)                439152.35
3762048.92       16.13544  (14051419)
        439202.35   3762048.92       17.04004  (14051419)                439252.35
3762048.92       17.91697  (14051419)
        439302.35   3762048.92       18.89808  (16092601)                439352.35
3762048.92       20.17076  (16092601)
        439402.35   3762048.92       21.35409  (16092601)                439452.35
3762048.92       23.04542  (15031321)
        439502.35   3762048.92       24.76273  (15031321)                439552.35
3762048.92       26.87842  (14051322)
        439616.61   3761420.65       14.96577  (14112323)                439666.61
3761420.65       15.89729  (12110417)
        439716.61   3761420.65       16.80237  (12110417)                439766.61
3761420.65       17.10030  (13101517)
        439816.61   3761420.65       17.21030  (16092523)                439866.61
3761420.65       17.80828  (13101419)
        439616.61   3761470.65       15.96544  (13112508)                439666.61
3761470.65       16.26789  (14022807)
        439716.61   3761470.65       17.56459  (12110417)                439766.61
3761470.65       18.22541  (13101517)
        439816.61   3761470.65       18.25749  (16092523)                439866.61
3761470.65       18.87420  (14100421)
        439616.61   3761520.65       16.84665  (15031301)                439666.61
3761520.65       17.36452  (13112508)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        20:40:17

                                  PAGE  48
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	18.06441	(12110417)	439766.61	3761520.65	19.44028	(12110417)
439816.61	3761520.65	19.88208	(13101517)	439866.61	3761520.65	20.09831	(16092523)
439616.61	3761570.65	17.59455	(14110501)	439666.61	3761570.65	18.49769	(15031301)
439716.61	3761570.65	18.95217	(13112508)	439766.61	3761570.65	20.39225	(12110417)
439816.61	3761570.65	21.45862	(12110417)	439866.61	3761570.65	21.56985	(13101517)
440451.14	3762893.83	60.70448	(16070206)	440501.14	3762893.83	57.96548	(16012217)
440551.14	3762893.83	53.37238	(14063005)	440601.14	3762893.83	50.48664	(13110717)
440651.14	3762893.83	48.73007	(15061306)	440701.14	3762893.83	46.11103	(16070606)
440751.14	3762893.83	42.70418	(15070406)	440801.14	3762893.83	38.54698	(15070606)
440851.14	3762893.83	32.53446	(13062920)	440451.14	3762943.83	55.68765	(13111318)
440501.14	3762943.83	54.59046	(16101920)	440551.14	3762943.83	50.31430	(14062506)
440601.14	3762943.83	48.85706	(15090821)	440651.14	3762943.83	45.68820	(16052806)
440701.14	3762943.83	43.23747	(15061306)	440751.14	3762943.83	39.90467	(16070606)
440801.14	3762943.83	38.63561	(15070406)	440851.14	3762943.83	36.87560	(15031520)
441116.67	3763135.31	25.83015	(14080123)	441166.67			

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3763135.31       24.37638  (15071801)
        441116.67   3763185.31       25.49101  (15072905)                441166.67
3763185.31       24.01025  (14080123)
        441116.67   3763235.31       25.08804  (15062901)                441166.67
3763235.31       23.57415  (15072905)
        441116.67   3763285.31       25.13411  (15062901)                441166.67
3763285.31       23.58750  (15062901)
        441116.67   3763335.31       24.76794  (15082423)                441166.67
3763335.31       23.62852  (15062901)
        441116.67   3763385.31       24.30578  (12081324)                441166.67
3763385.31       23.59494  (15082423)
        441116.67   3763435.31       23.88327  (13100303)                441166.67
3763435.31       23.02640  (15062124)
        440433.43   3762815.13       61.92272  (16012117)                440483.43
3762815.13       58.84261  (14062506)
        440533.43   3762815.13       53.19857  (16101523)                440583.43
3762815.13       50.41391  (16111017)
        440633.43   3762815.13       47.20279  (12082820)                440683.43
3762815.13       43.29254  (15070606)
        440733.43   3762815.13       40.58244  (13060306)                440783.43
3762815.13       36.98737  (13062920)
        440833.43   3762815.13       35.44149  (16061306)                440883.43
3762815.13       32.49280  (16061306)
        440933.43   3762815.13       28.81539  (13051321)                440983.43
3762815.13       26.24720  (15092020)
        440433.43   3762865.13       63.91733  (16070206)                440483.43
3762865.13       57.85704  (16012217)
        440533.43   3762865.13       52.19273  (15090105)                440583.43
3762865.13       49.19844  (16111017)
        440633.43   3762865.13       46.98973  (15101120)                440683.43
3762865.13       43.34507  (16070606)
        440733.43   3762865.13       41.14968  (15070406)                440783.43
3762865.13       37.50498  (13060306)
        440833.43   3762865.13       33.54660  (13062920)                440883.43
3762865.13       30.46831  (16061306)
        440933.43   3762865.13       27.71402  (16061306)                440983.43
3762865.13       25.36530  (13012217)
        441118.27   3762686.02       23.65235  (12092120)                441168.27
3762686.02       22.18368  (13090620)
        441118.27   3762736.02       23.17322  (15091021)                441168.27
3762736.02       21.63723  (15091021)
        441118.27   3762786.02       22.56065  (15062719)                441168.27
3762786.02       20.93498  (15072203)
        441118.27   3762836.02       21.66409  (13060406)                441168.27
3762836.02       20.53566  (15062719)
        440411.67   3762093.41       86.89139  (15012217)                440461.67
3762093.41       78.33441  (15101302)
        440511.67   3762093.41       70.61755  (13012317)                440561.67
3762093.41       63.16088  (12012417)
        440611.67   3762093.41       57.44699  (12092121)                440411.67
3762143.41      105.49738  (12012517)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	91.61797	(15071919)	440511.67	3762143.41	80.43498	(15091323)
440561.67	3762143.41	71.88603	(12092121)	440611.67	3762143.41	63.70932	(15080521)
440406.61	3762008.86	65.09335	(14011422)	440456.61	3762008.86	62.10437	(15012217)
440506.61	3762008.86	57.85851	(12012517)	440556.61	3762008.86	53.07310	(15071919)
440606.61	3762008.86	49.03783	(13012317)	440656.61	3762008.86	44.80148	(12012417)
440706.61	3762008.86	41.34033	(12012417)	440756.61	3762008.86	38.32402	(15070806)
440806.61	3762008.86	34.86391	(15080521)	440856.61	3762008.86	32.33954	(16083020)
440906.61	3762008.86	30.12871	(16062022)	440956.61	3762008.86	27.90240	(15091122)
441006.61	3762008.86	26.03104	(13051806)	441056.61	3762008.86	24.10279	(13051806)
441106.61	3762008.86	22.48973	(16072722)	441156.61	3762008.86	21.01049	(12080921)
440406.61	3762058.86	76.60730	(14100521)	440456.61	3762058.86	72.24673	(12012517)

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        440506.61   3762058.86       64.95149  (15071919)                440556.61
3762058.86       59.76635  (13012317)
        440606.61   3762058.86       53.99498  (12012417)                440656.61
3762058.86       49.36851  (12092121)
        440706.61   3762058.86       45.14116  (15080521)                440756.61
3762058.86       40.91292  (15091324)
        440806.61   3762058.86       37.53472  (16062022)                440856.61
3762058.86       34.40978  (15091122)
        440906.61   3762058.86       31.74366  (13051806)                440956.61
3762058.86       29.17286  (13051806)
        441006.61   3762058.86       26.94541  (16072722)                441056.61
3762058.86       25.02925  (12081321)
        441106.61   3762058.86       23.36686  (12081321)                441156.61
3762058.86       21.91025  (16061206)
        440191.38   3762138.44      118.46624  (14050102)                440241.38
3762138.44      123.20545  (15060806)
        440291.38   3762138.44      123.92563  (16061406)                440341.38
3762138.44      115.42443  (12020717)
        440191.38   3762188.44      158.81457  (16020317)                440241.38
3762188.44      164.04337  (15060806)
        440291.38   3762188.44      165.67574  (16061922)                440341.38
3762188.44      149.93091  (14100521)
        440191.38   3762238.44      242.22954  (16020317)                440241.38
3762238.44      239.32775  (16092606)
        440291.38   3762238.44      240.04534  (15082821)                440341.38
3762238.44      218.68308  (12012917)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***         20:40:17

                                   PAGE  50
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        440407.86   3761497.84       19.95081  (15102822)              439943.36
3761716.33       26.71074  (14100421)
        439170.17   3763092.51       16.54629  (15072001)              439220.17
3763092.51       17.86030  (15072001)
        439270.17   3763092.51       18.60716  (15010620)              439320.17
3763092.51       20.28865  (16102806)
        439370.17   3763092.51       21.55082  (15101220)              439420.17
3763092.51       22.24428  (14030901)
        439470.17   3763092.51       21.93767  (13101421)              439520.17
3763092.51       23.15696  (16102418)
        439570.17   3763092.51       24.73393  (14030104)              439620.17
3763092.51       27.54096  (15070104)
        439670.17   3763092.51       30.53516  (14010617)              439720.17
3763092.51       33.39275  (15031521)
        439770.17   3763092.51       35.40202  (15090205)              439820.17
3763092.51       37.02792  (12010219)
        439870.17   3763092.51       40.33488  (14091524)              439170.17
3763142.51       16.92584  (15091002)
        439220.17   3763142.51       18.61778  (16102806)              439270.17
3763142.51       18.78527  (15101220)
        439320.17   3763142.51       20.95559  (15101220)              439370.17
3763142.51       21.55544  (15101220)
        439420.17   3763142.51       21.55346  (13101421)              439470.17
3763142.51       23.49118  (15102306)
        439520.17   3763142.51       24.91331  (15102306)              439570.17
3763142.51       25.86627  (15070104)
        439620.17   3763142.51       27.33792  (15070104)              439670.17
3763142.51       30.09340  (13111320)
        439720.17   3763142.51       32.31166  (15090205)              439770.17
3763142.51       33.55125  (16102019)
        439820.17   3763142.51       36.32323  (14091524)              439870.17
3763142.51       37.95204  (13090904)
        439170.17   3763192.51       17.54191  (16102806)              439220.17
3763192.51       18.69340  (15101220)
        439270.17   3763192.51       19.35205  (15101220)              439320.17
3763192.51       20.19964  (15101220)
        439370.17   3763192.51       20.79736  (13101421)              439420.17
3763192.51       21.63142  (15102306)
        439470.17   3763192.51       23.00172  (15102306)              439520.17
3763192.51       24.08492  (15070104)
        439570.17   3763192.51       25.38791  (15070104)              439620.17
3763192.51       26.36202  (14010617)
        439670.17   3763192.51       29.48905  (15090205)              439720.17
3763192.51       31.25992  (15100522)
        439770.17   3763192.51       33.48167  (12010219)              439820.17
3763192.51       35.40580  (14091524)
        439870.17   3763192.51       36.30845  (12091522)              439170.17
3763242.51       18.48192  (15101220)
        439220.17   3763242.51       19.27267  (15101220)              439270.17
3763242.51       19.28004  (15101220)
        439320.17   3763242.51       20.11253  (16040804)              439370.17
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3763242.51       21.24111  (15082702)
        439420.17   3763242.51       21.97812  (15102306)               439470.17
3763242.51       23.19763  (16040703)
        439520.17   3763242.51       24.41526  (15070104)               439570.17
3763242.51       25.44670  (13111320)
        439620.17   3763242.51       26.52112  (15090205)               439670.17
3763242.51       27.91090  (15100522)
        439720.17   3763242.51       30.04517  (12010219)               439770.17
3763242.51       32.39046  (14091524)
        439820.17   3763242.51       33.60020  (13090904)               439870.17
3763242.51       35.43325  (15081402)
        439170.17   3763292.51       18.56559  (15101220)               439220.17
3763292.51       19.31389  (12071302)
        439270.17   3763292.51       20.10924  (15082702)               439320.17
3763292.51       20.87049  (15082702)
        439370.17   3763292.51       20.82480  (15102306)               439420.17
3763292.51       22.02399  (15013007)
        439470.17   3763292.51       23.52187  (15092402)               439520.17
3763292.51       24.62698  (13111320)
        439570.17   3763292.51       24.92656  (15090205)               439620.17
3763292.51       26.07153  (15090205)
        439670.17   3763292.51       27.24261  (15031421)               439720.17
3763292.51       29.26578  (12010219)
        439770.17   3763292.51       31.39662  (13090904)               439820.17
3763292.51       32.99874  (12091522)
        439870.17   3763292.51       34.08385  (15100921)               439170.17
3763342.51       18.19123  (14120303)
        439220.17   3763342.51       19.38255  (15082702)               439270.17
3763342.51       19.83820  (15082702)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        20:40:17

                                   PAGE  51
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
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        439503.20   3762911.16       21.88879  (15031221)                439553.20
3762911.16       23.57278  (15031221)
        439203.20   3762961.16       15.11549  (15090919)                439253.20
3762961.16       15.64011  (15021103)
        439303.20   3762961.16       16.45137  (15021103)                439353.20
3762961.16       17.34149  (16122818)
        439403.20   3762961.16       18.42473  (15031221)                439453.20
3762961.16       19.92924  (15031221)
        439503.20   3762961.16       21.13930  (15031221)                439553.20
3762961.16       21.96527  (13101603)
        439203.20   3763011.16       15.48120  (15021103)                439253.20
3763011.16       16.84873  (15072001)
        439303.20   3763011.16       18.40983  (15072001)                439353.20
3763011.16       19.92304  (15031221)
        439403.20   3763011.16       18.18631  (15031221)                439453.20
3763011.16       19.41237  (15031221)
        439503.20   3763011.16       19.88607  (13101603)                439553.20
3763011.16       21.98939  (15120219)
        439203.20   3763061.16       16.82200  (15072001)                439253.20
3763061.16       18.77285  (15072001)
        439303.20   3763061.16       19.57599  (15010620)                439353.20
3763061.16       21.32410  (16102806)
        439403.20   3763061.16       21.63052  (12020718)                439453.20
3763061.16       22.03230  (15120219)
        439503.20   3763061.16       22.50286  (13101421)                439553.20
3763061.16       24.59527  (16102418)
        439196.01   3762392.48       17.63402  (14020117)                439246.01
3762392.48       18.83756  (14020117)
        439296.01   3762392.48       20.17814  (14020117)                439346.01
3762392.48       21.68704  (14020117)
        439396.01   3762392.48       23.39132  (14020117)                439446.01
3762392.48       25.31373  (14020117)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        20:40:17

                                    PAGE  52
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                    INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
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                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
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X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	27.56804	(14020117)	439546.01	3762392.48	30.21475	(14020117)
439196.01	3762442.48	17.73525	(16102417)	439246.01	3762442.48	18.92050	(16102417)
439296.01	3762442.48	20.27324	(16102417)	439346.01	3762442.48	21.76743	(16102417)
439396.01	3762442.48	23.46072	(16102417)	439446.01	3762442.48	25.39721	(16102417)
439496.01	3762442.48	27.60798	(16102417)	439546.01	3762442.48	30.16500	(16102417)
439196.01	3762492.48	17.26834	(16122920)	439246.01	3762492.48	18.40681	(16122920)
439296.01	3762492.48	19.69545	(16122920)	439346.01	3762492.48	21.20899	(15051306)
439396.01	3762492.48	22.91310	(15051306)	439446.01	3762492.48	24.84077	(15051306)
439496.01	3762492.48	27.06628	(15051306)	439546.01	3762492.48	29.60013	(15051306)
439196.01	3762542.48	17.14682	(15051306)	439246.01	3762542.48	18.21775	(15051306)
439296.01	3762542.48	19.47260	(16022406)	439346.01	3762542.48	20.90328	(16022406)
439396.01	3762542.48	22.50533	(16022406)	439446.01	3762542.48	24.44139	(13122517)
439496.01	3762542.48	26.66088	(13122517)	439546.01	3762542.48	29.12017	(13122517)
439196.01	3762592.48	17.00515	(13122517)	439246.01	3762592.48	18.13750	(13122517)
439296.01	3762592.48	19.35525	(13122517)	439346.01	3762592.48	20.69097	(12112807)
439396.01	3762592.48	22.20536	(12112807)	439446.01	3762592.48	24.22946	(15031224)
439496.01	3762592.48	26.48337	(15031224)	439546.01	3762592.48	28.91178	(15031224)
439196.01	3762642.48	16.79656	(15031224)	439246.01	3762642.48	18.01941	(15031224)
439296.01	3762642.48	19.31436	(15031224)	439346.01	3762642.48	20.68156	(15031224)
439396.01	3762642.48	22.23617	(15031223)	439446.01	3762642.48	24.20928	(15063019)
439496.01	3762642.48	26.55262	(15063019)	439546.01	3762642.48	29.01868	(15063019)
439196.01	3762692.48	16.75000	(15031223)	439246.01	3762692.48	17.90297	(15031223)
439296.01	3762692.48	19.29549	(15063019)	439346.01			

3762692.48 20.82309 (15063019)
  439396.01 3762692.48 22.39718 (15063019) 439446.01
3762692.48 24.00451 (15063019)
  439496.01 3762692.48 25.58919 (15063019) 439546.01
3762692.48 27.43268 (15112017)
  439196.01 3762742.48 16.92003 (15063019) 439246.01
3762742.48 18.00812 (15063019)
  439296.01 3762742.48 19.09466 (15063019) 439346.01
3762742.48 20.15493 (15063019)
  439396.01 3762742.48 21.18170 (16122919) 439446.01
3762742.48 22.95755 (15112017)
  439496.01 3762742.48 24.77153 (15112017) 439546.01
3762742.48 26.76364 (15090919)
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3762792.48 17.13867 (15063019)
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  439396.01 3762792.48 20.83969 (15112017) 439446.01
3762792.48 22.38087 (15090919)
  439496.01 3762792.48 24.07287 (15090919) 439546.01
3762792.48 25.54343 (15090919)
  439196.01 3762842.48 15.90819 (15112017) 439246.01
3762842.48 16.91350 (15112017)
  439296.01 3762842.48 17.84550 (15112017) 439346.01
3762842.48 19.08932 (15090919)
  439396.01 3762842.48 20.35544 (15090919) 439446.01
3762842.48 21.44798 (15090919)
  439496.01 3762842.48 22.60571 (15021103) 439546.01
3762842.48 24.11881 (16122818)
  439573.31 3762470.54 31.13921 (15051306) 439623.31
3762470.54 34.53523 (15051306)
  439673.31 3762470.54 38.53404 (15051306) 439723.31
3762470.54 43.28928 (15051306)
  439773.31 3762470.54 49.05294 (15051306) 439823.31
3762470.54 56.07544 (15051306)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 ,
L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	65.34421	(13122517)	439573.31	3762520.54	30.73382	(13122517)
439623.31	3762520.54	34.02919	(13122517)	439673.31	3762520.54	37.83676	(13122517)
439723.31	3762520.54	42.22777	(12112807)	439773.31	3762520.54	48.22902	(15031224)
439823.31	3762520.54	55.34998	(15031224)	439873.31	3762520.54	65.16779	(15063019)
439573.31	3762570.54	30.54799	(15031224)	439623.31	3762570.54	33.74544	(15031224)
439673.31	3762570.54	37.49097	(15063019)	439723.31	3762570.54	42.61060	(15063019)
439773.31	3762570.54	48.30319	(15063019)	439823.31	3762570.54	54.42480	(15063019)
439873.31	3762570.54	61.85229	(15112017)	439573.31	3762620.54	30.66430	(15063019)
439623.31	3762620.54	33.78898	(15063019)	439673.31	3762620.54	37.02926	(15063019)
439723.31	3762620.54	40.26543	(15112017)	439773.31	3762620.54	45.49134	(15112017)
439823.31	3762620.54	51.55656	(15090919)	439873.31	3762620.54	58.11964	(15090919)
439573.31	3762670.54	29.25105	(15063019)	439623.31	3762670.54	32.00394	(15112017)
439673.31	3762670.54	35.20252	(15112017)	439723.31	3762670.54	39.13526	(15090919)
439773.31	3762670.54	43.08425	(15090919)	439823.31	3762670.54	47.17882	(16122818)
439873.31	3762670.54	54.14963	(15031221)	439152.35	3761448.92	10.90682	(14042901)
439202.35	3761448.92	11.28931	(14042901)	439252.35	3761448.92	11.57031	(16020619)
439302.35	3761448.92	11.95827	(16021419)	439352.35	3761448.92	12.41498	(16021419)
439402.35	3761448.92	12.71685	(12010822)	439452.35	3761448.92	13.14967	(12010822)
439502.35	3761448.92	13.67578	(15031301)	439552.35	3761448.92	14.23878	(15031301)
439152.35	3761498.92	11.17056	(14043002)	439202.35	3761498.92	11.65534	(14042901)
439252.35	3761498.92	12.23179	(14042901)	439302.35	3761498.92	12.48290	(16020619)

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        439352.35   3761498.92       12.90285  (16021419)                439402.35
3761498.92       13.37807  (16021419)
        439452.35   3761498.92       13.72101  (12010822)                439502.35
3761498.92       14.22167  (12010822)
        439552.35   3761498.92       14.89180  (15031301)                439152.35
3761548.92       11.66568  (14043002)
        439202.35   3761548.92       12.01202  (14043002)                439252.35
3761548.92       12.49525  (14042901)
        439302.35   3761548.92       13.06316  (14042901)                439352.35
3761548.92       13.36424  (16020619)
        439402.35   3761548.92       13.87701  (16021419)                439452.35
3761548.92       14.43506  (16021419)
        439502.35   3761548.92       14.90182  (12010822)                439552.35
3761548.92       15.47769  (14110501)
        439152.35   3761598.92       12.05476  (13101522)                439202.35
3761598.92       12.45433  (14043002)
        439252.35   3761598.92       12.93510  (14043002)                439302.35
3761598.92       13.35676  (14042901)
        439352.35   3761598.92       14.03169  (14042901)                439402.35
3761598.92       14.51059  (14042901)
        439452.35   3761598.92       15.10464  (16021419)                439502.35
3761598.92       15.70768  (16021419)
        439552.35   3761598.92       16.32760  (12010822)                439152.35
3761648.92       12.27654  (13101522)
        439202.35   3761648.92       12.90426  (13101522)                439252.35
3761648.92       13.39177  (13101522)
        439302.35   3761648.92       14.00050  (14043002)                439352.35
3761648.92       14.36962  (14042901)
        439402.35   3761648.92       15.29524  (14042901)                439452.35
3761648.92       15.87174  (14042901)
        439502.35   3761648.92       16.55502  (16021419)                439552.35
3761648.92       17.31849  (16021419)
        439152.35   3761698.92       12.81100  (16101918)                439202.35
3761698.92       13.13148  (16101918)
        439252.35   3761698.92       13.81683  (13101522)                439302.35
3761698.92       14.48280  (13101522)
        439352.35   3761698.92       15.17132  (14043002)                439402.35
3761698.92       15.74598  (14043002)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        20:40:17

                                   PAGE  54
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
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, L0013638   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	16.63955	(14042901)	439502.35	3761698.92	17.45479	(14042901)
439552.35	3761698.92	18.27175	(16021419)	439152.35	3761748.92	13.10523	(16101918)
439202.35	3761748.92	13.78085	(16101918)	439252.35	3761748.92	14.24452	(16101918)
439302.35	3761748.92	14.86213	(13101522)	439352.35	3761748.92	15.73194	(13101522)
439402.35	3761748.92	16.48300	(14043002)	439452.35	3761748.92	17.16787	(14043002)
439502.35	3761748.92	18.14883	(14042901)	439552.35	3761748.92	19.19916	(14042901)
439152.35	3761798.92	13.36944	(13100622)	439202.35	3761798.92	13.94597	(16101918)
439252.35	3761798.92	14.82042	(16101918)	439302.35	3761798.92	15.62569	(16101918)
439352.35	3761798.92	16.11039	(16101918)	439402.35	3761798.92	17.12160	(13101522)
439452.35	3761798.92	18.04269	(13101522)	439502.35	3761798.92	18.88121	(14043002)
439552.35	3761798.92	20.11277	(14042901)	439152.35	3761848.92	13.94302	(14051322)
439202.35	3761848.92	14.50625	(16112908)	439252.35	3761848.92	15.06256	(13100622)
439302.35	3761848.92	15.91806	(16101918)	439352.35	3761848.92	16.90189	(16101918)
439402.35	3761848.92	17.84007	(16101918)	439452.35	3761848.92	18.75618	(13101522)
439502.35	3761848.92	19.81742	(13101522)	439552.35	3761848.92	21.09335	(14043002)
439152.35	3761898.92	14.27811	(14051322)	439202.35	3761898.92	15.08982	(14051322)
439252.35	3761898.92	15.76568	(14051322)	439302.35	3761898.92	16.55250	(16112908)
439352.35	3761898.92	17.28933	(13100622)	439402.35	3761898.92	18.49593	(16101918)
439452.35	3761898.92	19.83610	(16101918)	439502.35	3761898.92	20.76397	(16101918)
439552.35	3761898.92	22.34003	(13101522)	439152.35			

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3761948.92       14.62254  (15031321)
        439202.35   3761948.92       15.36120  (15031321)                439252.35
3761948.92       16.11037  (14051322)
        439302.35   3761948.92       17.27818  (14051322)                439352.35
3761948.92       18.25789  (14051322)
        439402.35   3761948.92       19.12594  (16112908)                439452.35
3761948.92       20.22489  (16101918)
        439502.35   3761948.92       22.03922  (16101918)                439552.35
3761948.92       23.54430  (16101918)
        439152.35   3761998.92       14.94598  (16092601)                439202.35
3761998.92       15.61988  (16092601)
        439252.35   3761998.92       16.52176  (15031321)                439302.35
3761998.92       17.65710  (15031321)
        439352.35   3761998.92       18.72997  (14051322)                439402.35
3761998.92       20.05447  (14051322)
        439452.35   3761998.92       21.37529  (14051322)                439502.35
3761998.92       22.63606  (13100622)
        439552.35   3761998.92       24.30642  (16101918)                439152.35
3762048.92       15.39957  (14051419)
        439202.35   3762048.92       16.12065  (14051419)                439252.35
3762048.92       17.10036  (16092601)
        439302.35   3762048.92       18.13794  (16092601)                439352.35
3762048.92       19.22181  (15031321)
        439402.35   3762048.92       20.62160  (15031321)                439452.35
3762048.92       22.01355  (15031321)
        439502.35   3762048.92       23.88514  (14051322)                439552.35
3762048.92       25.69050  (14051322)
        439616.61   3761420.65       14.23626  (12110417)                439666.61
3761420.65       15.33617  (12110417)
        439716.61   3761420.65       15.83924  (13101517)                439766.61
3761420.65       15.88149  (13101517)
        439816.61   3761420.65       16.30750  (14100421)                439866.61
3761420.65       16.87984  (13101419)
        439616.61   3761470.65       14.99155  (13112508)                439666.61
3761470.65       15.80239  (12110417)
        439716.61   3761470.65       16.76292  (12110417)                439766.61
3761470.65       17.13725  (13101517)
        439816.61   3761470.65       17.26856  (16092523)                439866.61
3761470.65       17.91451  (13101419)
        439616.61   3761520.65       15.94217  (13112508)                439666.61
3761520.65       16.23357  (14022807)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        20:40:17

                                  PAGE  55
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
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INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	17.55545	(12110417)	439766.61	3761520.65	18.33488	(12110417)
439816.61	3761520.65	18.45505	(13101517)	439866.61	3761520.65	19.05886	(14100421)
439616.61	3761570.65	16.82916	(15031301)	439666.61	3761570.65	17.46702	(13112508)
439716.61	3761570.65	18.10703	(12110417)	439766.61	3761570.65	19.58062	(12110417)
439816.61	3761570.65	20.15940	(13101517)	439866.61	3761570.65	20.36009	(16092523)
440451.14	3762893.83	61.95660	(16101920)	440501.14	3762893.83	56.81802	(14062506)
440551.14	3762893.83	51.72074	(13110717)	440601.14	3762893.83	49.50146	(14090206)
440651.14	3762893.83	46.53312	(13060506)	440701.14	3762893.83	43.70361	(15070406)
440751.14	3762893.83	39.09922	(15070606)	440801.14	3762893.83	36.01308	(15100419)
440851.14	3762893.83	31.84997	(15073021)	440451.14	3762943.83	58.32585	(16070206)
440501.14	3762943.83	55.39035	(16012217)	440551.14	3762943.83	50.23256	(14063005)
440601.14	3762943.83	48.80353	(15090821)	440651.14	3762943.83	44.96651	(15061306)
440701.14	3762943.83	42.11630	(16070606)	440751.14	3762943.83	38.06046	(15070406)
440801.14	3762943.83	36.39813	(15031520)	440851.14	3762943.83	34.70964	(16080301)
441116.67	3763135.31	25.24921	(15071801)	441166.67	3763135.31	23.93786	(15082522)
441116.67	3763185.31	24.97171	(16071302)	441166.67	3763185.31	23.38037	(15071801)
441116.67	3763235.31	24.37499	(13070502)	441166.67	3763235.31	23.08699	(15072905)
441116.67	3763285.31	24.87239	(15062901)	441166.67	3763285.31	22.89758	(13070502)

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        441116.67   3763335.31       24.43862  (15080603)                441166.67
3763335.31       23.31260  (15062901)
        441116.67   3763385.31       23.96193  (15082423)                441166.67
3763385.31       23.15663  (15080603)
        441116.67   3763435.31       23.62123  (15062124)                441166.67
3763435.31       22.81388  (15082423)
        440433.43   3762815.13       66.03300  (16012217)                440483.43
3762815.13       58.79784  (16101601)
        440533.43   3762815.13       52.54622  (16111017)                440583.43
3762815.13       49.66066  (12082820)
        440633.43   3762815.13       44.42687  (13072106)                440683.43
3762815.13       40.67185  (15070606)
        440733.43   3762815.13       38.07211  (13062920)                440783.43
3762815.13       34.35474  (16061306)
        440833.43   3762815.13       32.97196  (16061306)                440883.43
3762815.13       30.21576  (13051321)
        440933.43   3762815.13       26.94442  (15092020)                440983.43
3762815.13       25.04572  (15092020)
        440433.43   3762865.13       62.83361  (13072121)                440483.43
3762865.13       60.05755  (16012217)
        440533.43   3762865.13       54.29082  (13110717)                440583.43
3762865.13       50.02422  (16111017)
        440633.43   3762865.13       46.93095  (12082820)                440683.43
3762865.13       43.69740  (15070406)
        440733.43   3762865.13       40.52675  (15070606)                440783.43
3762865.13       36.39633  (13062920)
        440833.43   3762865.13       31.98086  (15060920)                440883.43
3762865.13       28.48004  (16061306)
        440933.43   3762865.13       25.51918  (13012217)                440983.43
3762865.13       24.07352  (13051321)
        441118.27   3762686.02       22.39687  (13090620)                441168.27
3762686.02       20.90635  (13083023)
        441118.27   3762736.02       21.76878  (16092820)                441168.27
3762736.02       20.29857  (12092120)
        441118.27   3762786.02       21.13192  (15072203)                441168.27
3762786.02       19.94324  (15091021)
        441118.27   3762836.02       20.78427  (15062719)                441168.27
3762836.02       19.44818  (15062719)
        440411.67   3762093.41       81.16310  (15012217)                440461.67
3762093.41       72.37016  (12012517)
        440511.67   3762093.41       64.75744  (13012317)                440561.67
3762093.41       57.85875  (15091323)
        440611.67   3762093.41       52.51163  (12012417)                440411.67
3762143.41       98.36740  (12012517)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       20:40:17

                                  PAGE  56
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*
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*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 , L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	84.51375	(15071919)	440511.67	3762143.41	73.70221	(15091323)
440561.67	3762143.41	65.10493	(12092121)	440611.67	3762143.41	57.73555	(15080521)
440406.61	3762008.86	60.40303	(14011422)	440456.61	3762008.86	57.91833	(15012217)
440506.61	3762008.86	53.50483	(12012517)	440556.61	3762008.86	48.82288	(15071919)
440606.61	3762008.86	45.06078	(13012317)	440656.61	3762008.86	40.94215	(12012417)
440706.61	3762008.86	38.03863	(12012417)	440756.61	3762008.86	35.18332	(15070806)
440806.61	3762008.86	32.08627	(15080521)	440856.61	3762008.86	29.55255	(16083020)
440906.61	3762008.86	27.71753	(16062022)	440956.61	3762008.86	25.71206	(15091122)
441006.61	3762008.86	23.85229	(13051806)	441056.61	3762008.86	22.30733	(13051806)
441106.61	3762008.86	20.74257	(16072722)	441156.61	3762008.86	19.45766	(12080921)
440406.61	3762058.86	71.14638	(14100521)	440456.61	3762058.86	67.09693	(12012517)
440506.61	3762058.86	59.79121	(16021220)	440556.61	3762058.86	54.82846	(13012317)
440606.61	3762058.86	49.22296	(12012417)	440656.61	3762058.86	44.96634	(12012417)
440706.61	3762058.86	41.21635	(15070806)	440756.61	3762058.86	37.36508	(15091324)
440806.61	3762058.86	34.20733	(16062022)	440856.61	3762058.86	31.46619	(15091122)
440906.61	3762058.86	28.91692	(13051806)	440956.61	3762058.86	26.89092	(13051806)
441006.61	3762058.86	24.78418	(16072722)	441056.61			

3762058.86   22.99997 (12080921)
        441106.61   3762058.86   21.52188 (12081321)   441156.61
3762058.86   20.11942 (12081321)
        440191.38   3762138.44   109.58706 (14050102)   440241.38
3762138.44   114.68665 (15060806)
        440291.38   3762138.44   114.58153 (16061406)   440341.38
3762138.44   108.24249 (12020717)
        440191.38   3762188.44   145.38480 (14050102)   440241.38
3762188.44   153.28150 (15060806)
        440291.38   3762188.44   152.21651 (16061922)   440341.38
3762188.44   140.52468 (14100521)
        440191.38   3762238.44   228.33386 (16020317)   440241.38
3762238.44   229.49464 (14113016)
        440291.38   3762238.44   220.28066 (15082821)   440341.38
3762238.44   192.11803 (15012217)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN   ***
                                    INCLUDING SOURCE(S):   PAREA4   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440407.86   3761497.84   2.56713 (12010913)   439943.36
3761716.33   8.11092 (12122413)
        439170.17   3763092.51   1.32752 (15113013)   439220.17
3763092.51   1.37435 (15113013)
        439270.17   3763092.51   1.40472 (15113013)   439320.17
3763092.51   1.40893 (15113013)
        439370.17   3763092.51   1.38498 (15113013)   439420.17
3763092.51   1.33046 (15113013)
        439470.17   3763092.51   1.24292 (15113013)   439520.17
3763092.51   1.12047 (15113013)
        439570.17   3763092.51   0.99330 (14120813)   439620.17
3763092.51   0.98880 (14120813)
        439670.17   3763092.51   0.97192 (14120813)   439720.17
3763092.51   0.94209 (14120813)

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        439770.17   3763092.51        1.35724  (14041413)              439820.17
3763092.51        1.86231  (14041413)
        439870.17   3763092.51        2.38707  (14041413)              439170.17
3763142.51        1.20100  (15113013)
        439220.17   3763142.51        1.21115  (15113013)              439270.17
3763142.51        1.20401  (15113013)
        439320.17   3763142.51        1.17164  (15113013)              439370.17
3763142.51        1.11524  (15113013)
        439420.17   3763142.51        1.03538  (15113013)              439470.17
3763142.51        0.92721  (15113013)
        439520.17   3763142.51        0.87649  (14120813)              439570.17
3763142.51        0.86973  (14120813)
        439620.17   3763142.51        0.85292  (14120813)              439670.17
3763142.51        0.82392  (14120813)
        439720.17   3763142.51        1.03925  (14041413)              439770.17
3763142.51        1.43701  (14041413)
        439820.17   3763142.51        1.87204  (14041413)              439870.17
3763142.51        2.28147  (14041413)
        439170.17   3763192.51        1.05156  (15113013)              439220.17
3763192.51        1.03335  (15113013)
        439270.17   3763192.51        0.99900  (15113013)              439320.17
3763192.51        0.94214  (15113013)
        439370.17   3763192.51        0.86839  (15113013)              439420.17
3763192.51        0.78900  (14120813)
        439470.17   3763192.51        0.78434  (14120813)              439520.17
3763192.51        0.77379  (14120813)
        439570.17   3763192.51        0.75634  (14120813)              439620.17
3763192.51        0.73042  (14120813)
        439670.17   3763192.51        0.80736  (14041413)              439720.17
3763192.51        1.11818  (14041413)
        439770.17   3763192.51        1.47298  (14041413)              439820.17
3763192.51        1.83328  (14041413)
        439870.17   3763192.51        2.13824  (14041413)              439170.17
3763242.51        0.89357  (15113013)
        439220.17   3763242.51        0.85541  (15113013)              439270.17
3763242.51        0.80341  (15113013)
        439320.17   3763242.51        0.73599  (15113013)              439370.17
3763242.51        0.71588  (14120813)
        439420.17   3763242.51        0.70908  (14120813)              439470.17
3763242.51        0.69653  (14120813)
        439520.17   3763242.51        0.67833  (14120813)              439570.17
3763242.51        0.65356  (14120813)
        439620.17   3763242.51        0.63850  (14041413)              439670.17
3763242.51        0.88676  (14041413)
        439720.17   3763242.51        1.17433  (14041413)              439770.17
3763242.51        1.47996  (14041413)
        439820.17   3763242.51        1.76342  (14041413)              439870.17
3763242.51        1.97524  (14041413)
        439170.17   3763292.51        0.73795  (15113013)              439220.17
3763292.51        0.68601  (15113013)
        439270.17   3763292.51        0.66053  (14120813)              439320.17
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3763292.51 0.65497 (14120813)
  439370.17 3763292.51 0.64640 (14120813) 439420.17
3763292.51 0.63271 (14120813)
  439470.17 3763292.51 0.61398 (14120813) 439520.17
3763292.51 0.58995 (14120813)
  439570.17 3763292.51 0.56114 (14120813) 439620.17
3763292.51 0.70846 (14041413)
  439670.17 3763292.51 0.94649 (14041413) 439720.17
3763292.51 1.20485 (14041413)
  439770.17 3763292.51 1.45775 (14041413) 439820.17
3763292.51 1.67279 (14041413)
  439870.17 3763292.51 1.80711 (14041413) 439170.17
3763342.51 0.61823 (14120813)
  439220.17 3763342.51 0.61272 (14120813) 439270.17
3763342.51 0.60518 (14120813)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	0.59426	(14120813)	439370.17	3763342.51	0.58049	(14120813)
439420.17	3763342.51	0.56193	(14120813)	439470.17	3763342.51	0.53883	(14120813)
439520.17	3763342.51	0.51118	(14120813)	439570.17	3763342.51	0.57054	(14041413)
439620.17	3763342.51	0.76775	(14041413)	439670.17	3763342.51	0.98730	(14041413)
439720.17	3763342.51	1.21300	(14041413)	439770.17	3763342.51	1.41653	(14041413)
439820.17	3763342.51	1.57043	(14041413)	439870.17	3763342.51	1.64170	(14041413)
439170.17	3763392.51	0.57261	(14120813)	439220.17	3763392.51	0.56296	(14120813)

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        439270.17   3763392.51        0.55113  (14120813)              439320.17
3763392.51        0.53576  (14120813)
        439370.17   3763392.51        0.51784  (14120813)              439420.17
3763392.51        0.49562  (14120813)
        439470.17   3763392.51        0.46976  (14120813)              439520.17
3763392.51        0.46320  (14041413)
        439570.17   3763392.51        0.62544  (14041413)              439620.17
3763392.51        0.81240  (14041413)
        439670.17   3763392.51        1.00965  (14041413)              439720.17
3763392.51        1.20145  (14041413)
        439770.17   3763392.51        1.35962  (14041413)              439820.17
3763392.51        1.46121  (14041413)
        439870.17   3763392.51        1.48321  (14041413)              439170.17
3763442.51        0.52789  (14120813)
        439220.17   3763442.51        0.51466  (14120813)              439270.17
3763442.51        0.49916  (14120813)
        439320.17   3763442.51        0.48103  (14120813)              439370.17
3763442.51        0.46002  (14120813)
        439420.17   3763442.51        0.43579  (14120813)              439470.17
3763442.51        0.40847  (14120813)
        439520.17   3763442.51        0.51346  (14041413)              439570.17
3763442.51        0.67037  (14041413)
        439620.17   3763442.51        0.84294  (14041413)              439670.17
3763442.51        1.01626  (14041413)
        439720.17   3763442.51        1.17263  (14041413)              439770.17
3763442.51        1.28967  (14041413)
        439820.17   3763442.51        1.34829  (14041413)              439870.17
3763442.51        1.33369  (14041413)
        439203.20   3762911.16        1.67364  (14010613)              439253.20
3762911.16        1.75686  (14010613)
        439303.20   3762911.16        1.90170  (15113013)              439353.20
3762911.16        2.10913  (15113013)
        439403.20   3762911.16        2.30493  (15113013)              439453.20
3762911.16        2.47934  (15113013)
        439503.20   3762911.16        2.61928  (15113013)              439553.20
3762911.16        2.69992  (15113013)
        439203.20   3762961.16        1.54993  (15113013)              439253.20
3762961.16        1.70612  (15113013)
        439303.20   3762961.16        1.85676  (15113013)              439353.20
3762961.16        1.99692  (15113013)
        439403.20   3762961.16        2.11417  (15113013)              439453.20
3762961.16        2.19341  (15113013)
        439503.20   3762961.16        2.22781  (15113013)              439553.20
3762961.16        2.19753  (15113013)
        439203.20   3763011.16        1.52321  (15113013)              439253.20
3763011.16        1.63410  (15113013)
        439303.20   3763011.16        1.72996  (15113013)              439353.20
3763011.16        1.80256  (15113013)
        439403.20   3763011.16        1.84947  (15113013)              439453.20
3763011.16        1.84962  (15113013)
        439503.20   3763011.16        1.80506  (15113013)              439553.20
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3763011.16 1.70131 (15113013)
  439203.20 3763061.16 1.43822 (15113013) 439253.20
3763061.16 1.50129 (15113013)
  439303.20 3763061.16 1.54409 (15113013) 439353.20
3763061.16 1.55904 (15113013)
  439403.20 3763061.16 1.54263 (15113013) 439453.20
3763061.16 1.48899 (15113013)
  439503.20 3763061.16 1.39563 (15113013) 439553.20
3763061.16 1.25888 (15113013)
  439196.01 3762392.48 2.13476 (14120113) 439246.01
3762392.48 2.35009 (14120113)
  439296.01 3762392.48 2.60086 (14120113) 439346.01
3762392.48 2.89564 (14120113)
  439396.01 3762392.48 3.24644 (14120113) 439446.01
3762392.48 3.66853 (14120113)
*** AERMOD - VERSION 21112 *** *** Ontario Euclid Phase 2 Ops PM2.5
                      *** 04/05/23
 *** AERMET - VERSION 16216 *** ***
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 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                            *** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN ***
                                INCLUDING SOURCE(S): PAREA4 ,

                                      *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                   ** CONC OF PM_2.5 IN MICROGRAMS/M**3
                **

      X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M)
Y-COORD (M) CONC (YYMMDDHH)
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        439396.01   3762492.48        2.81845  (12020613)              439446.01
3762492.48        3.29159  (12020613)
        439496.01   3762492.48        3.87290  (12020613)              439546.01
3762492.48        4.59679  (12020613)
        439196.01   3762542.48        2.08389  (12020613)              439246.01
3762542.48        2.36080  (12020613)
        439296.01   3762542.48        2.68459  (12020613)              439346.01
3762542.48        3.06653  (12020613)
        439396.01   3762542.48        3.51738  (12020613)              439446.01
3762542.48        4.05525  (12020613)
        439496.01   3762542.48        4.69671  (12020613)              439546.01
3762542.48        5.47344  (12020613)
        439196.01   3762592.48        2.47401  (12020613)              439246.01
3762592.48        2.76883  (12020613)
        439296.01   3762592.48        3.10777  (12020613)              439346.01
3762592.48        3.49594  (12020613)
        439396.01   3762592.48        3.94143  (12020613)              439446.01
3762592.48        4.45213  (12020613)
        439496.01   3762592.48        5.03519  (12020613)              439546.01
3762592.48        5.70608  (12020613)
        439196.01   3762642.48        2.70858  (12020613)              439246.01
3762642.48        2.98310  (12020613)
        439296.01   3762642.48        3.28887  (12020613)              439346.01
3762642.48        3.62468  (12020613)
        439396.01   3762642.48        3.98978  (12020613)              439446.01
3762642.48        4.38428  (12020613)
        439496.01   3762642.48        4.80395  (12020613)              439546.01
3762642.48        5.24801  (12020613)
        439196.01   3762692.48        2.74493  (12020613)              439246.01
3762692.48        2.96301  (12020613)
        439296.01   3762692.48        3.19003  (12020613)              439346.01
3762692.48        3.42502  (12020613)
        439396.01   3762692.48        3.66375  (12020613)              439446.01
3762692.48        3.89494  (12020613)
        439496.01   3762692.48        4.10852  (12020613)              439546.01
3762692.48        4.29512  (12020613)
        439196.01   3762742.48        2.58313  (12020613)              439246.01
3762742.48        2.72165  (12020613)
        439296.01   3762742.48        2.85318  (12020613)              439346.01
3762742.48        2.97196  (12020613)
        439396.01   3762742.48        3.07103  (12020613)              439446.01
3762742.48        3.14118  (12020613)
        439496.01   3762742.48        3.21481  (14010613)              439546.01
3762742.48        3.62135  (16010413)
        439196.01   3762792.48        2.26290  (12020613)              439246.01
3762792.48        2.32307  (12020613)
        439296.01   3762792.48        2.36012  (12020613)              439346.01
3762792.48        2.37386  (12020613)
        439396.01   3762792.48        2.54173  (14010613)              439446.01
3762792.48        2.78420  (16010413)
        439496.01   3762792.48        3.08003  (16010413)              439546.01
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3762792.48 3.41381 (15113013)
 439196.01 3762842.48 1.85018 (12020613) 439246.01
3762842.48 1.89053 (14010613)
 439296.01 3762842.48 2.05612 (14010613) 439346.01
3762842.48 2.20936 (14010613)
 439396.01 3762842.48 2.40553 (16010413) 439446.01
3762842.48 2.63812 (15113013)
 439496.01 3762842.48 2.94160 (15113013) 439546.01
3762842.48 3.22860 (15113013)
 439573.31 3762470.54 4.50726 (12020613) 439623.31
3762470.54 5.46771 (12020613)
 439673.31 3762470.54 6.72645 (12020613) 439723.31
3762470.54 8.39805 (12020613)
 439773.31 3762470.54 10.63835 (12020613) 439823.31
3762470.54 13.67467 (12020613)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	17.85067	(12020613)	439573.31	3762520.54	5.65442	(12020613)
439623.31	3762520.54	6.73189	(12020613)	439673.31	3762520.54	8.08770	(12020613)
439723.31	3762520.54	9.80809	(12020613)	439773.31	3762520.54	11.98831	(12020613)
439823.31	3762520.54	14.74207	(12020613)	439873.31	3762520.54	18.15227	(12020613)
439573.31	3762570.54	6.14918	(12020613)	439623.31	3762570.54	7.09488	(12020613)
439673.31	3762570.54	8.20526	(12020613)	439723.31	3762570.54	9.50626	(12020613)
439773.31	3762570.54	10.99079	(12020613)	439823.31	3762570.54	12.60798	(12020613)

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        439873.31   3762570.54       14.21580  (12020613)              439573.31
3762620.54        5.84842  (12020613)
        439623.31   3762620.54        6.46670  (12020613)              439673.31
3762620.54        7.11194  (12020613)
        439723.31   3762620.54        7.75452  (12020613)              439773.31
3762620.54        8.33506  (12020613)
        439823.31   3762620.54        9.28496  (16010413)              439873.31
3762620.54       11.02562  (15113013)
        439573.31   3762670.54        4.90840  (12020613)              439623.31
3762670.54        5.15278  (12020613)
        439673.31   3762670.54        5.36010  (16010413)              439723.31
3762670.54        6.23529  (16010413)
        439773.31   3762670.54        7.17281  (15113013)              439823.31
3762670.54        8.42721  (15113013)
        439873.31   3762670.54        9.54799  (15113013)              439152.35
3761448.92        1.83601  (12121713)
        439202.35   3761448.92        1.86088  (12121713)              439252.35
3761448.92        1.87704  (12121713)
        439302.35   3761448.92        1.88088  (12121713)              439352.35
3761448.92        1.87158  (12121713)
        439402.35   3761448.92        1.84622  (12121713)              439452.35
3761448.92        1.80510  (12121713)
        439502.35   3761448.92        1.74753  (12121713)              439552.35
3761448.92        1.76902  (12122413)
        439152.35   3761498.92        1.86429  (12121713)              439202.35
3761498.92        1.90463  (12121713)
        439252.35   3761498.92        1.93662  (12121713)              439302.35
3761498.92        1.95610  (12121713)
        439352.35   3761498.92        1.96282  (12121713)              439402.35
3761498.92        1.95530  (12121713)
        439452.35   3761498.92        1.93035  (12121713)              439502.35
3761498.92        1.88879  (12121713)
        439552.35   3761498.92        1.82771  (12121713)              439152.35
3761548.92        1.87815  (12121713)
        439202.35   3761548.92        1.93290  (12121713)              439252.35
3761548.92        1.98068  (12121713)
        439302.35   3761548.92        2.01743  (12121713)              439352.35
3761548.92        2.04317  (12121713)
        439402.35   3761548.92        2.05574  (12121713)              439452.35
3761548.92        2.05234  (12121713)
        439502.35   3761548.92        2.02988  (12121713)              439552.35
3761548.92        1.98795  (12121713)
        439152.35   3761598.92        1.87528  (12121713)              439202.35
3761598.92        1.94475  (12121713)
        439252.35   3761598.92        2.00882  (12121713)              439302.35
3761598.92        2.06518  (12121713)
        439352.35   3761598.92        2.11095  (12121713)              439402.35
3761598.92        2.14637  (12121713)
        439452.35   3761598.92        2.16658  (12121713)              439502.35
3761598.92        2.16897  (12121713)
        439552.35   3761598.92        2.15068  (12121713)              439152.35
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3761648.92        1.85355  (12121713)
        439202.35   3761648.92        1.93829  (12121713)                439252.35
3761648.92        2.01978  (12121713)
        439302.35   3761648.92        2.09550  (12121713)                439352.35
3761648.92        2.16364  (12121713)
        439402.35   3761648.92        2.22278  (12121713)                439452.35
3761648.92        2.26950  (12121713)
        439502.35   3761648.92        2.30059  (12121713)                439552.35
3761648.92        2.31257  (12121713)
        439152.35   3761698.92        1.81206  (12121713)                439202.35
3761698.92        1.91087  (12121713)
        439252.35   3761698.92        2.00844  (12121713)                439302.35
3761698.92        2.10433  (12121713)
        439352.35   3761698.92        2.19607  (12121713)                439402.35
3761698.92        2.28120  (12121713)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       20:40:17

                                   PAGE  61
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2GEN    ***
                                   INCLUDING SOURCE(S):     PAREA4      ,

                                             *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                          ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439452.35   3761698.92        2.35583  (12121713)                439502.35
3761698.92        2.41977  (12121713)
        439552.35   3761698.92        2.46659  (12121713)                439152.35
3761748.92        1.74985  (12121713)
        439202.35   3761748.92        1.86124  (12121713)                439252.35
3761748.92        1.97410  (12121713)
        439302.35   3761748.92        2.08958  (12121713)                439352.35
3761748.92        2.20359  (12121713)
        439402.35   3761748.92        2.31532  (12121713)                439452.35
3761748.92        2.42164  (12121713)
        439502.35   3761748.92        2.51991  (12121713)                439552.35
3761748.92        2.60761  (12121713)
        439152.35   3761798.92        1.66872  (12121713)                439202.35
3761798.92        1.78964  (12121713)
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        439252.35   3761798.92        1.91614  (12121713)              439302.35
3761798.92        2.04868  (12121713)
        439352.35   3761798.92        2.18413  (12121713)              439402.35
3761798.92        2.32253  (12121713)
        439452.35   3761798.92        2.46182  (12121713)              439502.35
3761798.92        2.59802  (12121713)
        439552.35   3761798.92        2.72968  (12121713)              439152.35
3761848.92        1.56944  (12121713)
        439202.35   3761848.92        1.69660  (12121713)              439252.35
3761848.92        1.83274  (12121713)
        439302.35   3761848.92        1.97881  (12121713)              439352.35
3761848.92        2.13366  (12121713)
        439402.35   3761848.92        2.29852  (12121713)              439452.35
3761848.92        2.46969  (12121713)
        439502.35   3761848.92        2.64527  (12121713)              439552.35
3761848.92        2.82500  (12121713)
        439152.35   3761898.92        1.45273  (12121713)              439202.35
3761898.92        1.58375  (12121713)
        439252.35   3761898.92        1.72631  (12121713)              439302.35
3761898.92        1.88287  (12121713)
        439352.35   3761898.92        2.05352  (12121713)              439402.35
3761898.92        2.23860  (12121713)
        439452.35   3761898.92        2.43977  (12121713)              439502.35
3761898.92        2.65524  (12121713)
        439552.35   3761898.92        2.88281  (12121713)              439152.35
3761948.92        1.50255  (12010213)
        439202.35   3761948.92        1.52959  (12010213)              439252.35
3761948.92        1.59719  (12121713)
        439302.35   3761948.92        1.76036  (12121713)              439352.35
3761948.92        1.94131  (12121713)
        439402.35   3761948.92        2.17348  (14112413)              439452.35
3761948.92        2.46602  (14112413)
        439502.35   3761948.92        2.74892  (14112413)              439552.35
3761948.92        2.99691  (14112413)
        439152.35   3761998.92        1.57516  (12010213)              439202.35
3761998.92        1.61735  (12010213)
        439252.35   3761998.92        1.71693  (16012513)              439302.35
3761998.92        1.82462  (16012513)
        439352.35   3761998.92        1.92422  (16012513)              439402.35
3761998.92        2.03669  (13101413)
        439452.35   3761998.92        2.37456  (14112413)              439502.35
3761998.92        2.76575  (14112413)
        439552.35   3761998.92        3.16632  (14112413)              439152.35
3762048.92        1.78849  (14120113)
        439202.35   3762048.92        1.86215  (14120113)              439252.35
3762048.92        1.93601  (14120113)
        439302.35   3762048.92        2.00892  (14120113)              439352.35
3762048.92        2.15978  (16012513)
        439402.35   3762048.92        2.32731  (16012513)              439452.35
3762048.92        2.48626  (16012513)
        439502.35   3762048.92        2.64559  (13101413)              439552.35
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3762048.92   3.06858 (14112413)
        439616.61   3761420.65   2.62781 (12122413)   439666.61
3761420.65   3.22547 (12122413)
        439716.61   3761420.65   3.75629 (12122413)   439766.61
3761420.65   4.13255 (12122413)
        439816.61   3761420.65   4.27371 (12122413)   439866.61
3761420.65   4.13144 (12122413)
        439616.61   3761470.65   2.46412 (12122413)   439666.61
3761470.65   3.14366 (12122413)
        439716.61   3761470.65   3.80278 (12122413)   439766.61
3761470.65   4.33877 (12122413)
        439816.61   3761470.65   4.64704 (12122413)   439866.61
3761470.65   4.64302 (12122413)
        439616.61   3761520.65   2.25033 (12122413)   439666.61
3761520.65   2.99448 (12122413)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN   ***
                                   INCLUDING SOURCE(S):   PAREA4   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439716.61   3761520.65   3.77308 (12122413)   439766.61
3761520.65   4.48129 (12122413)
        439816.61   3761520.65   4.98859 (12122413)   439866.61
3761520.65   5.17056 (12122413)
        439616.61   3761570.65   1.99184 (12122413)   439666.61
3761570.65   2.77501 (12122413)
        439716.61   3761570.65   3.65815 (12122413)   439766.61
3761570.65   4.53914 (12122413)
        439816.61   3761570.65   5.27123 (12122413)   439866.61
3761570.65   5.69139 (12122413)
        440451.14   3762893.83   9.85944 (12011613)   440501.14
3762893.83   10.20497 (12011613)
        440551.14   3762893.83   9.27576 (12011613)   440601.14
3762893.83   7.53903 (12011613)

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        440651.14   3762893.83        6.68649  (12022713)              440701.14
3762893.83        5.62500  (13050613)
        440751.14   3762893.83        5.66428  (13050613)              440801.14
3762893.83        5.28379  (13050613)
        440851.14   3762893.83        4.63780  (13050613)              440451.14
3762943.83        7.63067  (12011613)
        440501.14   3762943.83        8.33943  (12011613)              440551.14
3762943.83        8.08020  (12011613)
        440601.14   3762943.83        7.02726  (12011613)              440651.14
3762943.83        6.05639  (12022713)
        440701.14   3762943.83        5.41835  (12022713)              440751.14
3762943.83        4.68267  (13102813)
        440801.14   3762943.83        4.70105  (13050613)              440851.14
3762943.83        4.42615  (13050613)
        441116.67   3763135.31        2.22423  (12021313)              441166.67
3763135.31        2.03880  (12021313)
        441116.67   3763185.31        2.14192  (13050613)              441166.67
3763185.31        1.98814  (12021313)
        441116.67   3763235.31        1.99422  (13050613)              441166.67
3763235.31        1.90509  (13050613)
        441116.67   3763285.31        1.87876  (13102813)              441166.67
3763285.31        1.77639  (13050613)
        441116.67   3763335.31        1.78494  (13102813)              441166.67
3763335.31        1.69490  (13102813)
        441116.67   3763385.31        1.62838  (13102813)              441166.67
3763385.31        1.61998  (13102813)
        441116.67   3763435.31        1.49624  (12022713)              441166.67
3763435.31        1.48977  (13102813)
        440433.43   3762815.13       14.51159  (12011613)              440483.43
3762815.13       14.16405  (12011613)
        440533.43   3762815.13       11.88728  (12011613)              440583.43
3762815.13        9.30156  (12022713)
        440633.43   3762815.13        7.92043  (13050613)              440683.43
3762815.13        7.79919  (13050613)
        440733.43   3762815.13        7.01202  (13050613)              440783.43
3762815.13        5.87656  (13050613)
        440833.43   3762815.13        4.66799  (13050613)              440883.43
3762815.13        3.88285  (12032613)
        440933.43   3762815.13        3.23996  (14122213)              440983.43
3762815.13        2.97380  (12102213)
        440433.43   3762865.13       11.02517  (12011613)              440483.43
3762865.13       11.59162  (12011613)
        440533.43   3762865.13       10.56348  (12011613)              440583.43
3762865.13        8.53505  (12011613)
        440633.43   3762865.13        7.33105  (12022713)              440683.43
3762865.13        6.37136  (13050613)
        440733.43   3762865.13        6.29088  (13050613)              440783.43
3762865.13        5.74128  (13050613)
        440833.43   3762865.13        4.92511  (13050613)              440883.43
3762865.13        4.02608  (13050613)
        440933.43   3762865.13        3.31976  (12032613)              440983.43
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3762865.13   2.82685 (12032613)
        441118.27   3762686.02   4.03462 (12042313)   441168.27
3762686.02   3.50398 (12042313)
        441118.27   3762736.02   4.08398 (12042313)   441168.27
3762736.02   3.70194 (12042313)
        441118.27   3762786.02   3.63519 (12042313)   441168.27
3762786.02   3.47403 (12042313)
        441118.27   3762836.02   2.88213 (12042313)   441168.27
3762836.02   2.91429 (12042313)
        440411.67   3762093.41   17.57255 (15122113)   440461.67
3762093.41   15.61974 (15122113)
        440511.67   3762093.41   14.38999 (12031213)   440561.67
3762093.41   12.80741 (12031213)
        440611.67   3762093.41   10.61469 (12031213)   440411.67
3762143.41   23.94682 (15122113)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2GEN   ***
                                   INCLUDING SOURCE(S):   PAREA4   ,

                                            *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440461.67   3762143.41   20.97133 (12031213)   440511.67
3762143.41   18.46371 (12031213)
        440561.67   3762143.41   14.87725 (12031213)   440611.67
3762143.41   11.31292 (12031213)
        440406.61   3762008.86   10.94711 (12010913)   440456.61
3762008.86   10.77846 (15122113)
        440506.61   3762008.86   9.84139 (15122113)   440556.61
3762008.86   8.78708 (12031213)
        440606.61   3762008.86   8.27878 (12031213)   440656.61
3762008.86   7.33301 (12031213)
        440706.61   3762008.86   6.21685 (12031213)   440756.61
3762008.86   5.11215 (12031213)
        440806.61   3762008.86   4.25624 (14111013)   440856.61
3762008.86   3.86005 (14111013)

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        440906.61   3762008.86        3.73044  (12121013)                440956.61
3762008.86        3.62378  (12121013)
        441006.61   3762008.86        3.46571  (12121013)                441056.61
3762008.86        3.27539  (12121013)
        441106.61   3762008.86        3.06690  (12121013)                441156.61
3762008.86        2.85161  (12121013)
        440406.61   3762058.86       14.16585  (15122113)                440456.61
3762058.86       13.63325  (15122113)
        440506.61   3762058.86       11.80640  (12031213)                440556.61
3762058.86       11.24834  (12031213)
        440606.61   3762058.86        9.89265  (12031213)                440656.61
3762058.86        8.20975  (12031213)
        440706.61   3762058.86        6.54375  (12031213)                440756.61
3762058.86        5.28055  (14111013)
        440806.61   3762058.86        4.89926  (12121013)                440856.61
3762058.86        4.71707  (12121013)
        440906.61   3762058.86        4.45072  (12121013)                440956.61
3762058.86        4.14054  (12121013)
        441006.61   3762058.86        3.81189  (12121013)                441056.61
3762058.86        3.48266  (12121013)
        441106.61   3762058.86        3.16510  (12121013)                441156.61
3762058.86        2.86621  (12121013)
        440191.38   3762138.44       47.64293  (12122413)                440241.38
3762138.44       30.29084  (12122413)
        440291.38   3762138.44       28.29364  (15122813)                440341.38
3762138.44       26.05514  (12010913)
        440191.38   3762188.44       75.20923  (12122413)                440241.38
3762188.44       54.19729  (12122413)
        440291.38   3762188.44       45.04128  (15122813)                440341.38
3762188.44       39.46507  (12010913)
        440191.38   3762238.44      120.93907  (12122413)                440241.38
3762238.44      102.38574  (12122413)
        440291.38   3762238.44       83.14439  (15122813)                440341.38
3762238.44       64.09216  (15122813)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        20:40:17

                                   PAGE  64
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
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, L0013598   , L0013599   , . . .   ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5   IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	41.21981	(15122901)	439943.36	3761716.33	54.90643	(16092523)
439170.17	3763092.51	33.93730	(15072001)	439220.17	3763092.51	36.59582	(15072001)
439270.17	3763092.51	38.13967	(15010620)	439320.17	3763092.51	41.35491	(16102806)
439370.17	3763092.51	44.04514	(15101220)	439420.17	3763092.51	44.93274	(14030901)
439470.17	3763092.51	45.19350	(13101421)	439520.17	3763092.51	47.57265	(16102418)
439570.17	3763092.51	50.11638	(14030104)	439620.17	3763092.51	55.78126	(15070104)
439670.17	3763092.51	61.28996	(14010617)	439720.17	3763092.51	66.08653	(15031521)
439770.17	3763092.51	69.69235	(15090205)	439820.17	3763092.51	72.77219	(16102019)
439870.17	3763092.51	79.15568	(14091524)	439170.17	3763142.51	34.32903	(15091002)
439220.17	3763142.51	37.58643	(16102806)	439270.17	3763142.51	38.53065	(15101220)
439320.17	3763142.51	42.42498	(15101220)	439370.17	3763142.51	43.42281	(15101220)
439420.17	3763142.51	43.83576	(13101421)	439470.17	3763142.51	47.45177	(15102306)
439520.17	3763142.51	50.14493	(15102306)	439570.17	3763142.51	51.82240	(15070104)
439620.17	3763142.51	54.85683	(15070104)	439670.17	3763142.51	59.51962	(15031521)
439720.17	3763142.51	63.84079	(15090205)	439770.17	3763142.51	66.33881	(16102019)
439820.17	3763142.51	71.53331	(14091524)	439870.17	3763142.51	74.55671	(13090904)
439170.17	3763192.51	35.60279	(16102806)	439220.17	3763192.51	38.02140	(15101220)
439270.17	3763192.51	39.17962	(15101220)	439320.17	3763192.51	40.76598	(15101220)
439370.17	3763192.51	42.08995	(13101421)	439420.17	3763192.51	43.74866	(15102306)
439470.17	3763192.51	46.39589	(15102306)	439520.17			

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3763192.51       48.65255  (15070104)
        439570.17   3763192.51       51.12124  (15070104)                439620.17
3763192.51       52.99798  (14010617)
        439670.17   3763192.51       58.44066  (15090205)                439720.17
3763192.51       61.84073  (15100522)
        439770.17   3763192.51       66.03575  (12010219)                439820.17
3763192.51       69.80796  (14091524)
        439870.17   3763192.51       71.20141  (12091522)                439170.17
3763242.51       37.03902  (15101220)
        439220.17   3763242.51       38.44437  (15101220)                439270.17
3763242.51       38.23591  (15101220)
        439320.17   3763242.51       40.22005  (15082702)                439370.17
3763242.51       42.30981  (15082702)
        439420.17   3763242.51       43.75445  (15102306)                439470.17
3763242.51       46.17799  (16040703)
        439520.17   3763242.51       48.59019  (15070104)                439570.17
3763242.51       50.53900  (13111320)
        439620.17   3763242.51       52.68032  (15090205)                439670.17
3763242.51       55.35472  (15100522)
        439720.17   3763242.51       59.41283  (12010219)                439770.17
3763242.51       64.03051  (14091524)
        439820.17   3763242.51       66.30007  (13090904)                439870.17
3763242.51       69.59959  (15081402)
        439170.17   3763292.51       37.04405  (15101220)                439220.17
3763292.51       38.52936  (14120303)
        439270.17   3763292.51       40.30518  (15082702)                439320.17
3763292.51       41.64573  (15082702)
        439370.17   3763292.51       41.52113  (15102306)                439420.17
3763292.51       43.90134  (16040703)
        439470.17   3763292.51       46.80422  (15092402)                439520.17
3763292.51       49.03960  (13111320)
        439570.17   3763292.51       49.63360  (15090205)                439620.17
3763292.51       51.74910  (15090205)
        439670.17   3763292.51       53.91122  (15031421)                439720.17
3763292.51       57.90096  (12010219)
        439770.17   3763292.51       62.09083  (13090904)                439820.17
3763292.51       64.98477  (12091522)
        439870.17   3763292.51       67.28123  (15100921)                439170.17
3763342.51       36.42448  (14120303)
        439220.17   3763342.51       38.88128  (15082702)                439270.17
3763342.51       39.62511  (15082702)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        20:40:17

                                  PAGE  65
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
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INCLUDING SOURCE(S): L0013572 , L0013573
, L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581
, L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589
, L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597
, L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS
***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	40.43760	(12081704)	439370.17	3763342.51	40.77762	(16040703)
439420.17	3763342.51	43.43294	(15092402)	439470.17	3763342.51	45.61552	(13111320)
439520.17	3763342.51	47.57222	(16072323)	439570.17	3763342.51	49.01114	(15090205)
439620.17	3763342.51	50.03737	(15031421)	439670.17	3763342.51	52.91521	(12010219)
439720.17	3763342.51	56.46136	(14091524)	439770.17	3763342.51	60.04718	(15092601)
439820.17	3763342.51	63.17258	(15081402)	439870.17	3763342.51	64.69445	(15070102)
439170.17	3763392.51	36.97110	(15082702)	439220.17	3763392.51	38.70061	(15082702)
439270.17	3763392.51	38.98508	(12081704)	439320.17	3763392.51	40.67470	(15063003)
439370.17	3763392.51	41.90146	(15062721)	439420.17	3763392.51	43.71207	(15062224)
439470.17	3763392.51	45.83869	(16072323)	439520.17	3763392.51	46.49098	(15090205)
439570.17	3763392.51	47.60229	(15031421)	439620.17	3763392.51	48.77746	(15031421)
439670.17	3763392.51	51.87301	(14091524)	439720.17	3763392.51	54.04064	(13090904)
439770.17	3763392.51	57.82446	(12091522)	439820.17	3763392.51	60.54417	(15081402)
439870.17	3763392.51	62.43243	(15070102)	439170.17	3763442.51	36.97519	(15082702)
439220.17	3763442.51	38.80798	(12081704)	439270.17	3763442.51	38.43689	(15063003)
439320.17	3763442.51	40.11358	(15062721)	439370.17	3763442.51	41.12983	(16100302)

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        439420.17   3763442.51       42.41523  (15062224)                439470.17
3763442.51       44.68158  (16072323)
        439520.17   3763442.51       45.36187  (16072103)                439570.17
3763442.51       47.19948  (13091323)
        439620.17   3763442.51       48.37138  (12010219)                439670.17
3763442.51       50.72034  (14091524)
        439720.17   3763442.51       52.81837  (15092601)                439770.17
3763442.51       56.25217  (15081402)
        439820.17   3763442.51       57.46976  (16082406)                439870.17
3763442.51       60.01842  (13082824)
        439203.20   3762911.16       31.58338  (15090919)                439253.20
3762911.16       33.23657  (15090919)
        439303.20   3762911.16       34.61126  (15090919)                439353.20
3762911.16       36.28799  (15021103)
        439403.20   3762911.16       38.21688  (16122818)                439453.20
3762911.16       40.40039  (16122818)
        439503.20   3762911.16       44.05829  (15031221)                439553.20
3762911.16       47.15152  (15031221)
        439203.20   3762961.16       30.31690  (15090919)                439253.20
3762961.16       31.68002  (15021103)
        439303.20   3762961.16       33.73951  (16122818)                439353.20
3762961.16       35.14654  (16122818)
        439403.20   3762961.16       37.22515  (15031221)                439453.20
3762961.16       40.42334  (15031221)
        439503.20   3762961.16       42.25802  (15031221)                439553.20
3762961.16       44.26789  (13101603)
        439203.20   3763011.16       31.31628  (16122818)                439253.20
3763011.16       34.06835  (15072001)
        439303.20   3763011.16       37.27976  (15072001)                439353.20
3763011.16       40.15929  (15031221)
        439403.20   3763011.16       37.17461  (15031221)                439453.20
3763011.16       39.41510  (15031221)
        439503.20   3763011.16       40.60556  (13101603)                439553.20
3763011.16       44.57194  (15120219)
        439203.20   3763061.16       34.02993  (15072001)                439253.20
3763061.16       38.23919  (15072001)
        439303.20   3763061.16       40.13237  (15010620)                439353.20
3763061.16       43.20673  (16102806)
        439403.20   3763061.16       44.55426  (15101220)                439453.20
3763061.16       45.41641  (14030901)
        439503.20   3763061.16       45.38211  (13101421)                439553.20
3763061.16       50.44127  (16102418)
        439196.01   3762392.48       35.72116  (16102417)                439246.01
3762392.48       38.12172  (16102417)
        439296.01   3762392.48       40.79057  (16102417)                439346.01
3762392.48       43.79085  (16102417)
        439396.01   3762392.48       47.17396  (16102417)                439446.01
3762392.48       50.97868  (16102417)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	55.44818	(16102417)	439546.01	3762392.48	60.69816	(16102417)
439196.01	3762442.48	35.76853	(16102417)	439246.01	3762442.48	38.11610	(16102417)
439296.01	3762442.48	40.78548	(16102417)	439346.01	3762442.48	43.73025	(16102417)
439396.01	3762442.48	47.05744	(16102417)	439446.01	3762442.48	50.84906	(16102417)
439496.01	3762442.48	55.16329	(16102417)	439546.01	3762442.48	60.13214	(16102417)
439196.01	3762492.48	34.90112	(15051306)	439246.01	3762492.48	37.30080	(15051306)
439296.01	3762492.48	39.99976	(15051306)	439346.01	3762492.48	43.00972	(15051306)
439396.01	3762492.48	46.35469	(15051306)	439446.01	3762492.48	50.11507	(15051306)
439496.01	3762492.48	54.41889	(15051306)	439546.01	3762492.48	59.28006	(15051306)
439196.01	3762542.48	34.55825	(16022406)	439246.01	3762542.48	36.83904	(16022406)
439296.01	3762542.48	39.38181	(16022406)	439346.01	3762542.48	42.20325	(13122517)
439396.01	3762542.48	45.63536	(13122517)	439446.01	3762542.48	49.42628	(13122517)
439496.01	3762542.48	53.68009	(13122517)	439546.01			

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3762542.48       58.38037  (12112807)
        439196.01   3762592.48       34.41943  (13122517)                439246.01
3762592.48       36.60151  (13122517)
        439296.01   3762592.48       39.02228  (12112807)                439346.01
3762592.48       41.68965  (12112807)
        439396.01   3762592.48       45.18459  (15031224)                439446.01
3762592.48       49.11507  (15031224)
        439496.01   3762592.48       53.41361  (15031224)                439546.01
3762592.48       58.16088  (15031223)
        439196.01   3762642.48       34.18888  (15031224)                439246.01
3762642.48       36.56545  (15031224)
        439296.01   3762642.48       39.06391  (15031224)                439346.01
3762642.48       41.66854  (15031223)
        439396.01   3762642.48       44.99321  (15031223)                439446.01
3762642.48       49.15279  (15063019)
        439496.01   3762642.48       53.61401  (15063019)                439546.01
3762642.48       58.21457  (15063019)
        439196.01   3762692.48       33.99446  (15031223)                439246.01
3762692.48       36.35575  (15063019)
        439296.01   3762692.48       39.17918  (15063019)                439346.01
3762692.48       42.10685  (15063019)
        439396.01   3762692.48       45.07389  (15063019)                439446.01
3762692.48       48.01926  (15063019)
        439496.01   3762692.48       50.81729  (15063019)                439546.01
3762692.48       55.32372  (15112017)
        439196.01   3762742.48       34.25311  (15063019)                439246.01
3762742.48       36.31131  (15063019)
        439296.01   3762742.48       38.31895  (15063019)                439346.01
3762742.48       40.22481  (15063019)
        439396.01   3762742.48       42.77241  (15112017)                439446.01
3762742.48       46.28285  (15112017)
        439496.01   3762742.48       49.61017  (15112017)                439546.01
3762742.48       53.83576  (15090919)
        439196.01   3762792.48       32.89975  (15063019)                439246.01
3762792.48       34.47376  (16122919)
        439296.01   3762792.48       36.88981  (15112017)                439346.01
3762792.48       39.41792  (15112017)
        439396.01   3762792.48       41.76781  (15112017)                439446.01
3762792.48       45.09168  (15090919)
        439496.01   3762792.48       48.17998  (15090919)                439546.01
3762792.48       50.71726  (15090919)
        439196.01   3762842.48       32.20167  (15112017)                439246.01
3762842.48       34.09417  (15112017)
        439296.01   3762842.48       35.92239  (15090919)                439346.01
3762842.48       38.51020  (15090919)
        439396.01   3762842.48       40.83636  (15090919)                439446.01
3762842.48       42.74157  (15090919)
        439496.01   3762842.48       45.26496  (15021103)                439546.01
3762842.48       48.27377  (16122818)
        439573.31   3762470.54       62.94495  (15051306)                439623.31
3762470.54       69.53977  (15051306)
```

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	130.50260	(13122517)	439573.31	3762520.54	62.02092	(13122517)
439623.31	3762520.54	68.29948	(13122517)	439673.31	3762520.54	75.55170	(12112807)
439723.31	3762520.54	85.25426	(15031224)	439773.31	3762520.54	96.82871	(15031224)
439823.31	3762520.54	110.93794	(15063019)	439873.31	3762520.54	130.56265	(15063019)
439573.31	3762570.54	61.60239	(15031224)	439623.31	3762570.54	67.71459	(15031223)
439673.31	3762570.54	75.97433	(15063019)	439723.31	3762570.54	85.61088	(15063019)
439773.31	3762570.54	96.00346	(15063019)	439823.31	3762570.54	106.71302	(15063019)
439873.31	3762570.54	122.52968	(15112017)	439573.31	3762620.54	61.77752	(15063019)
439623.31	3762620.54	67.54286	(15063019)	439673.31	3762620.54	73.32167	(15063019)

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        439723.31   3762620.54       80.83471  (15112017)              439773.31
3762620.54       90.26927  (15112017)
        439823.31   3762620.54      102.24972  (15090919)              439873.31
3762620.54      113.27824  (15090919)
        439573.31   3762670.54       58.26368  (15112017)              439623.31
3762670.54       64.21583  (15112017)
        439673.31   3762670.54       70.17430  (15090919)              439723.31
3762670.54       77.94851  (15090919)
        439773.31   3762670.54       84.71597  (15090919)              439823.31
3762670.54       93.42853  (16122818)
        439873.31   3762670.54      107.12982  (15031221)              439152.35
3761448.92       22.16205  (14042901)
        439202.35   3761448.92       23.12844  (14042901)              439252.35
3761448.92       23.80701  (14042901)
        439302.35   3761448.92       24.52939  (16020619)              439352.35
3761448.92       25.50556  (16021419)
        439402.35   3761448.92       26.06790  (16021419)              439452.35
3761448.92       27.07109  (12010822)
        439502.35   3761448.92       27.99815  (14110501)              439552.35
3761448.92       29.24893  (15031301)
        439152.35   3761498.92       23.02826  (14043002)              439202.35
3761498.92       23.64321  (14042901)
        439252.35   3761498.92       25.02979  (14042901)              439302.35
3761498.92       25.73504  (14042901)
        439352.35   3761498.92       26.45871  (16020619)              439402.35
3761498.92       27.49582  (16021419)
        439452.35   3761498.92       28.03025  (16021419)              439502.35
3761498.92       29.32543  (12010822)
        439552.35   3761498.92       30.32288  (14110501)              439152.35
3761548.92       23.82685  (14043002)
        439202.35   3761548.92       24.72233  (14043002)              439252.35
3761548.92       25.29815  (14042901)
        439302.35   3761548.92       26.70124  (14042901)              439352.35
3761548.92       27.56867  (14042901)
        439402.35   3761548.92       28.48620  (16020619)              439452.35
3761548.92       29.68333  (16021419)
        439502.35   3761548.92       30.42559  (12010822)              439552.35
3761548.92       31.78259  (12010822)
        439152.35   3761598.92       24.65793  (13101522)              439202.35
3761598.92       25.46770  (13101522)
        439252.35   3761598.92       26.57034  (14043002)              439302.35
3761598.92       27.26335  (14043002)
        439352.35   3761598.92       28.64204  (14042901)              439402.35
3761598.92       29.91769  (14042901)
        439452.35   3761598.92       30.99597  (16020619)              439502.35
3761598.92       32.31816  (16021419)
        439552.35   3761598.92       33.37722  (12010822)              439152.35
3761648.92       25.03040  (16101918)
        439202.35   3761648.92       26.31100  (13101522)              439252.35
3761648.92       27.52866  (13101522)
        439302.35   3761648.92       28.69060  (14043002)              439352.35
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3761648.92 29.60749 (14043002)
 439402.35 3761648.92 31.16726 (14042901) 439452.35
3761648.92 32.69869 (14042901)
 439502.35 3761648.92 33.94927 (16020619) 439552.35
3761648.92 35.65281 (16021419)
 439152.35 3761698.92 26.25990 (16101918) 439202.35
3761698.92 27.10670 (16101918)
 439252.35 3761698.92 28.06450 (13101522) 439302.35
3761698.92 29.68121 (13101522)
 439352.35 3761698.92 31.00220 (14043002) 439402.35
3761698.92 32.49500 (14043002)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 1-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	33.84017	(14042901)	439502.35	3761698.92	35.92574	(14042901)
439552.35	3761698.92	37.43514	(16020619)	439152.35	3761748.92	26.53858	(16101918)
439202.35	3761748.92	28.12103	(16101918)	439252.35	3761748.92	29.29482	(16101918)
439302.35	3761748.92	30.27108	(16101918)	439352.35	3761748.92	32.12100	(13101522)
439402.35	3761748.92	33.71407	(13101522)	439452.35	3761748.92	35.34853	(14043002)
439502.35	3761748.92	36.82433	(14042901)	439552.35			

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3761748.92       39.47267  (14042901)
        439152.35   3761798.92       27.41588  (13100622)                439202.35
3761798.92       28.48589  (13100622)
        439252.35   3761798.92       30.07654  (16101918)                439302.35
3761798.92       31.97929  (16101918)
        439352.35   3761798.92       33.26036  (16101918)                439402.35
3761798.92       34.79967  (13101522)
        439452.35   3761798.92       37.07393  (13101522)                439502.35
3761798.92       38.76218  (14043002)
        439552.35   3761798.92       40.69029  (14042901)                439152.35
3761848.92       28.58337  (14051322)
        439202.35   3761848.92       29.76148  (14051322)                439252.35
3761848.92       30.92230  (13100622)
        439302.35   3761848.92       32.18738  (13100622)                439352.35
3761848.92       34.39350  (16101918)
        439402.35   3761848.92       36.64860  (16101918)                439452.35
3761848.92       38.14166  (16101918)
        439502.35   3761848.92       40.54667  (13101522)                439552.35
3761848.92       43.13795  (14043002)
        439152.35   3761898.92       28.97578  (15031321)                439202.35
3761898.92       30.71401  (14051322)
        439252.35   3761898.92       32.31614  (14051322)                439302.35
3761898.92       33.96136  (14051322)
        439352.35   3761898.92       35.53795  (13100622)                439402.35
3761898.92       37.36079  (16101918)
        439452.35   3761898.92       40.48995  (16101918)                439502.35
3761898.92       42.85516  (16101918)
        439552.35   3761898.92       45.44369  (13101522)                439152.35
3761948.92       29.70250  (15031321)
        439202.35   3761948.92       31.39166  (15031321)                439252.35
3761948.92       32.86992  (15031321)
        439302.35   3761948.92       35.12151  (14051322)                439352.35
3761948.92       37.40758  (14051322)
        439402.35   3761948.92       39.25752  (16112908)                439452.35
3761948.92       41.62058  (13100622)
        439502.35   3761948.92       44.62596  (16101918)                439552.35
3761948.92       48.26228  (16101918)
        439152.35   3761998.92       30.49079  (16092601)                439202.35
3761998.92       32.03629  (16092601)
        439252.35   3761998.92       33.44618  (15031321)                439302.35
3761998.92       35.98157  (15031321)
        439352.35   3761998.92       38.32952  (15031321)                439402.35
3761998.92       40.69599  (14051322)
        439452.35   3761998.92       43.77487  (14051322)                439502.35
3761998.92       46.47749  (16112908)
        439552.35   3761998.92       49.49095  (13100622)                439152.35
3762048.92       31.53501  (14051419)
        439202.35   3762048.92       33.16069  (14051419)                439252.35
3762048.92       34.71088  (16092601)
        439302.35   3762048.92       37.03601  (16092601)                439352.35
3762048.92       39.29016  (16092601)
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        439402.35   3762048.92       41.86078  (15031321)                439452.35
3762048.92       45.05897  (15031321)
        439502.35   3762048.92       48.34941  (14051322)                439552.35
3762048.92       52.56892  (14051322)
        439616.61   3761420.65       29.04846  (14022807)                439666.61
3761420.65       31.23346  (12110417)
        439716.61   3761420.65       32.60158  (12110417)                439766.61
3761420.65       32.98179  (13101517)
        439816.61   3761420.65       33.40458  (14100421)                439866.61
3761420.65       34.68812  (13101419)
        439616.61   3761470.65       30.95698  (13112508)                439666.61
3761470.65       31.88641  (12110417)
        439716.61   3761470.65       34.32751  (12110417)                439766.61
3761470.65       35.36266  (13101517)
        439816.61   3761470.65       35.52605  (16092523)                439866.61
3761470.65       36.70644  (16020708)
        439616.61   3761520.65       32.74384  (15031301)                439666.61
3761520.65       33.54325  (13112508)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        20:40:17

                                   PAGE  69
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                   L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                   L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                   L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439716.61   3761520.65       35.61986  (12110417)                439766.61
3761520.65       37.77516  (12110417)
        439816.61   3761520.65       38.33713  (13101517)                439866.61
3761520.65       39.09056  (14100421)
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        439616.61   3761570.65       34.31075  (15031301)               439666.61
3761570.65       35.86982  (13112508)
        439716.61   3761570.65       36.69058  (14022807)               439766.61
3761570.65       39.97286  (12110417)
        439816.61   3761570.65       41.55723  (13101517)               439866.61
3761570.65       41.91145  (16092523)
        440451.14   3762893.83      121.81854  (16070206)               440501.14
3762893.83      114.48461  (16012217)
        440551.14   3762893.83      104.85616  (12070506)               440601.14
3762893.83       98.96815  (14090206)
        440651.14   3762893.83       93.90107  (16082606)               440701.14
3762893.83       88.95183  (16070606)
        440751.14   3762893.83       81.37005  (15070406)               440801.14
3762893.83       74.32245  (15100419)
        440851.14   3762893.83       64.25653  (13062920)               440451.14
3762943.83      113.85990  (16070206)
        440501.14   3762943.83      109.05091  (16101920)               440551.14
3762943.83      100.39573  (14063005)
        440601.14   3762943.83       97.66059  (15090821)               440651.14
3762943.83       90.35795  (15061306)
        440701.14   3762943.83       85.15309  (13060506)               440751.14
3762943.83       77.10741  (14052906)
        440801.14   3762943.83       74.84607  (15070406)               440851.14
3762943.83       71.13172  (15031520)
        441116.67   3763135.31       50.71235  (12072301)               441166.67
3763135.31       47.83413  (15082522)
        441116.67   3763185.31       50.40837  (15072905)               441166.67
3763185.31       47.09626  (16090403)
        441116.67   3763235.31       49.41451  (16092821)               441166.67
3763235.31       46.66114  (15072905)
        441116.67   3763285.31       50.00650  (15062901)               441166.67
3763285.31       46.38083  (16092821)
        441116.67   3763335.31       49.09598  (15082423)               441166.67
3763335.31       46.94112  (15062901)
        441116.67   3763385.31       47.85329  (13070101)               441166.67
3763385.31       46.64951  (15082423)
        441116.67   3763435.31       47.28919  (13100303)               441166.67
3763435.31       45.45670  (15070704)
        440433.43   3762815.13      127.71115  (16012217)               440483.43
3762815.13      117.03594  (14062506)
        440533.43   3762815.13      104.98424  (16111017)               440583.43
3762815.13       99.81379  (15101120)
        440633.43   3762815.13       90.82357  (13072106)               440683.43
3762815.13       83.96439  (15070606)
        440733.43   3762815.13       78.14173  (13062920)               440783.43
3762815.13       70.30182  (15011817)
        440833.43   3762815.13       68.41346  (16061306)               440883.43
3762815.13       62.37036  (13012217)
        440933.43   3762815.13       55.66210  (13051321)               440983.43
3762815.13       51.29292  (15092020)
        440433.43   3762865.13      126.72789  (16070206)               440483.43
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3762865.13      117.91459  (16012217)
        440533.43   3762865.13      106.09403  (12070506)                440583.43
3762865.13       99.22266  (16111017)
        440633.43   3762865.13       93.90881  (15101120)                440683.43
3762865.13       86.17978  (15070406)
        440733.43   3762865.13       81.63585  (15070606)                440783.43
3762865.13       73.14955  (13062920)
        440833.43   3762865.13       65.07501  (13062920)                440883.43
3762865.13       58.94835  (16061306)
        440933.43   3762865.13       52.76363  (16061306)                440983.43
3762865.13       49.24792  (13051321)
        441118.27   3762686.02       46.01172  (13090620)                441168.27
3762686.02       42.95148  (13090620)
        441118.27   3762736.02       44.91672  (15091021)                441168.27
3762736.02       41.77847  (16092820)
        441118.27   3762786.02       43.48183  (15062719)                441168.27
3762786.02       40.66535  (15091021)
        441118.27   3762836.02       42.30383  (15062719)                441168.27
3762836.02       39.98384  (15062719)
        440411.67   3762093.41      168.05449  (15012217)                440461.67
3762093.41      150.64384  (15101302)
        440511.67   3762093.41      135.37499  (13012317)                440561.67
3762093.41      120.96113  (15091323)
        440611.67   3762093.41      109.89058  (12012417)                440411.67
3762143.41      203.86477  (12012517)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       20:40:17

                                   PAGE  70
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST  1-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	5.56289c	(14012124)	439943.36	3761716.33	6.51039	(15010624)
439170.17	3763092.51	4.28854	(12011324)	439220.17	3763092.51	4.48261	(12011324)
439270.17	3763092.51	4.49811	(12020424)	439320.17	3763092.51	5.14878	(12020424)
439370.17	3763092.51	5.79170	(12020424)	439420.17	3763092.51	6.33494	(12020424)
439470.17	3763092.51	6.73567	(12020424)	439520.17	3763092.51	7.04258	(12020424)
439570.17	3763092.51	7.13256	(12020424)	439620.17	3763092.51	7.05790	(12020424)
439670.17	3763092.51	6.59489	(12020424)	439720.17	3763092.51	5.74755	(12020424)
439770.17	3763092.51	6.01404m	(15011124)	439820.17	3763092.51	6.50531	(13112324)
439870.17	3763092.51	6.85425	(13112324)	439170.17	3763142.51	4.03622	(12011324)
439220.17	3763142.51	4.28457	(12020424)	439270.17	3763142.51	4.83108	(12020424)
439320.17	3763142.51	5.43171	(12020424)	439370.17	3763142.51	5.94795	(12020424)

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        439420.17   3763142.51        6.29498  (12020424)              439470.17
3763142.51        6.61860  (12020424)
        439520.17   3763142.51        6.68678  (12020424)              439570.17
3763142.51        6.41788  (12020424)
        439620.17   3763142.51        6.00106  (12020424)              439670.17
3763142.51        5.30101  (12020424)
        439720.17   3763142.51        5.29559m (15011124)              439770.17
3763142.51        5.76594m (15011124)
        439820.17   3763142.51        6.07420  (13112324)              439870.17
3763142.51        6.25036  (13112324)
        439170.17   3763192.51        4.07983  (12020424)              439220.17
3763192.51        4.59012  (12020424)
        439270.17   3763192.51        5.06272  (12020424)              439320.17
3763192.51        5.54729  (12020424)
        439370.17   3763192.51        5.88876  (12020424)              439420.17
3763192.51        6.05495  (12020424)
        439470.17   3763192.51        6.11852  (12020424)              439520.17
3763192.51        5.93296  (12020424)
        439570.17   3763192.51        5.51789  (12020424)              439620.17
3763192.51        4.90734  (12020424)
        439670.17   3763192.51        4.69107m (15011124)              439720.17
3763192.51        5.18981m (15011124)
        439770.17   3763192.51        5.53182m (15011124)              439820.17
3763192.51        5.61761m (15011124)
        439870.17   3763192.51        5.66241  (13112324)              439170.17
3763242.51        4.35128  (12020424)
        439220.17   3763242.51        4.79039  (12020424)              439270.17
3763242.51        5.15756  (12020424)
        439320.17   3763242.51        5.46021  (12020424)              439370.17
3763242.51        5.62366  (12020424)
        439420.17   3763242.51        5.62795  (12020424)              439470.17
3763242.51        5.47279  (12020424)
        439520.17   3763242.51        5.10080  (12020424)              439570.17
3763242.51        4.55845  (12020424)
        439620.17   3763242.51        4.14539m (15011124)              439670.17
3763242.51        4.57054m (15011124)
        439720.17   3763242.51        4.95434m (15011124)              439770.17
3763242.51        5.16159m (15011124)
        439820.17   3763242.51        5.13454  (13112324)              439870.17
3763242.51        5.11414  (13112324)
        439170.17   3763292.51        4.54249  (12020424)              439220.17
3763292.51        4.92071  (12020424)
        439270.17   3763292.51        5.17174  (12020424)              439320.17
3763292.51        5.28281  (12020424)
        439370.17   3763292.51        5.23148  (12020424)              439420.17
3763292.51        5.08421  (12020424)
        439470.17   3763292.51        4.74831  (12020424)              439520.17
3763292.51        4.25035  (12020424)
        439570.17   3763292.51        3.77470m (15011124)              439620.17
3763292.51        4.13024m (15011124)
        439670.17   3763292.51        4.43761m (15011124)              439720.17
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                      *** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
                         INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
                L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
                L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
                L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

                                        *** DISCRETE CARTESIAN RECEPTOR POINTS ***

                                    ** CONC OF PM_2.5 IN MICROGRAMS/M**3
                **

     X-COORD (M) Y-COORD (M) CONC (YYMMDDHH) X-COORD (M) Y-COORD (M) CONC (YYMMDDHH)
 - - -

```
3763392.51        4.43239  (12020424)
        439370.17   3763392.51        4.13492  (12020424)                439420.17
3763392.51        3.73382  (12020424)
        439470.17   3763392.51        3.23655  (12020424)                439520.17
3763392.51        3.43966m (15011124)
        439570.17   3763392.51        3.69607m (15011124)                439620.17
3763392.51        3.89683m (15011124)
        439670.17   3763392.51        4.07586m (15011124)                439720.17
3763392.51        4.09845m (15011124)
        439770.17   3763392.51        3.98532m (15011124)                439820.17
3763392.51        3.89872  (13112324)
        439870.17   3763392.51        3.79970  (13112324)                439170.17
3763442.51        4.36127  (12020424)
        439220.17   3763442.51        4.32129  (12020424)                439270.17
3763442.51        4.14431  (12020424)
        439320.17   3763442.51        3.87914  (12020424)                439370.17
3763442.51        3.51522  (12020424)
        439420.17   3763442.51        3.07401  (12020424)                439470.17
3763442.51        3.15503m (15011124)
        439520.17   3763442.51        3.38639m (15011124)                439570.17
3763442.51        3.60641m (15011124)
        439620.17   3763442.51        3.75799m (15011124)                439670.17
3763442.51        3.84939m (15011124)
        439720.17   3763442.51        3.80179m (15011124)                439770.17
3763442.51        3.62786  (13112324)
        439820.17   3763442.51        3.57088  (13112324)                439870.17
3763442.51        3.46422  (13112324)
        439203.20   3762911.16        4.14885  (12011324)                439253.20
3762911.16        4.48587  (12011324)
        439303.20   3762911.16        4.82911  (12011324)                439353.20
3762911.16        5.17157  (12011324)
        439403.20   3762911.16        5.48983  (12011324)                439453.20
3762911.16        5.76978  (12011324)
        439503.20   3762911.16        5.99505  (12011324)                439553.20
3762911.16        6.85398  (12020424)
        439203.20   3762961.16        4.15823  (12011324)                439253.20
3762961.16        4.46255  (12011324)
        439303.20   3762961.16        4.85917  (12011324)                439353.20
3762961.16        4.97919  (12011324)
        439403.20   3762961.16        5.11133  (12011324)                439453.20
3762961.16        5.56535  (12020424)
        439503.20   3762961.16        6.22836  (12020424)                439553.20
3762961.16        6.99713  (12020424)
        439203.20   3763011.16        4.35600  (12011324)                439253.20
3763011.16        4.60947  (12011324)
        439303.20   3763011.16        4.89159  (12011324)                439353.20
3763011.16        5.01462  (12011324)
        439403.20   3763011.16        5.20515  (12020424)                439453.20
3763011.16        5.95027  (12020424)
        439503.20   3763011.16        6.44942  (12020424)                439553.20
3763011.16        7.16758  (12020424)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2ONSITE ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439203.20	3763061.16	4.37530	(12011324)	439253.20	3763061.16	4.74558	(12011324)
439303.20	3763061.16	4.81439	(12011324)	439353.20	3763061.16	5.36900	(12020424)
439403.20	3763061.16	6.04724	(12020424)	439453.20	3763061.16	6.63395	(12020424)
439503.20	3763061.16	6.85680	(12020424)	439553.20	3763061.16	7.50083	(12020424)
439196.01	3762392.48	3.57531	(16020824)	439246.01	3762392.48	3.87015	(16020824)
439296.01	3762392.48	4.20430	(16020824)	439346.01	3762392.48	4.58625	(16020824)
439396.01	3762392.48	5.02530	(16020824)	439446.01	3762392.48	5.53192	(16020824)
439496.01	3762392.48	6.13033	(16020824)	439546.01	3762392.48	6.84173	(16020824)
439196.01	3762442.48	3.66953	(12122024)	439246.01	3762442.48	4.01253	(12122024)
439296.01	3762442.48	4.41007	(12122024)	439346.01	3762442.48	4.86882	(12122024)
439396.01	3762442.48	5.40538	(12122024)	439446.01	3762442.48	6.03825	(12122024)

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        439496.01   3762442.48        6.78939  (12122024)              439546.01
3762442.48        7.69126  (12122024)
        439196.01   3762492.48        4.08449  (12122024)              439246.01
3762492.48        4.47372  (12122024)
        439296.01   3762492.48        4.92448  (12122024)              439346.01
3762492.48        5.44661  (12122024)
        439396.01   3762492.48        6.05317  (12122024)              439446.01
3762492.48        6.76457  (12122024)
        439496.01   3762492.48        7.61003  (12122024)              439546.01
3762492.48        8.61475  (12122024)
        439196.01   3762542.48        4.45631  (12122024)              439246.01
3762542.48        4.87596  (12122024)
        439296.01   3762542.48        5.35850  (12122024)              439346.01
3762542.48        5.91135  (12122024)
        439396.01   3762542.48        6.55079  (12122024)              439446.01
3762542.48        7.28964  (12122024)
        439496.01   3762542.48        8.15210  (12122024)              439546.01
3762542.48        9.15366  (12122024)
        439196.01   3762592.48        4.73182  (12122024)              439246.01
3762592.48        5.15969  (12122024)
        439296.01   3762592.48        5.64164  (12122024)              439346.01
3762592.48        6.18525  (12122024)
        439396.01   3762592.48        6.80058  (12122024)              439446.01
3762592.48        7.49792  (12122024)
        439496.01   3762592.48        8.28782  (12122024)              439546.01
3762592.48        9.17462  (12122024)
        439196.01   3762642.48        4.87449  (12122024)              439246.01
3762642.48        5.27919  (12122024)
        439296.01   3762642.48        5.72651  (12122024)              439346.01
3762642.48        6.21847  (12122024)
        439396.01   3762642.48        6.76210  (12122024)              439446.01
3762642.48        7.35648  (12122024)
        439496.01   3762642.48        8.00086  (12122024)              439546.01
3762642.48        8.69183  (12122024)
        439196.01   3762692.48        4.87030  (12122024)              439246.01
3762692.48        5.22706  (12122024)
        439296.01   3762692.48        5.61113  (12122024)              439346.01
3762692.48        6.02206  (12122024)
        439396.01   3762692.48        6.45724  (12122024)              439446.01
3762692.48        6.91096  (12122024)
        439496.01   3762692.48        7.37483  (12122024)              439546.01
3762692.48        7.84209  (12122024)
        439196.01   3762742.48        4.72766  (12122024)              439246.01
3762742.48        5.02024  (12122024)
        439296.01   3762742.48        5.32269  (12122024)              439346.01
3762742.48        5.63373  (12122024)
        439396.01   3762742.48        5.94618  (12122024)              439446.01
3762742.48        6.25235  (12122024)
        439496.01   3762742.48        6.72622  (12011324)              439546.01
3762742.48        7.54359  (12011324)
        439196.01   3762792.48        4.47005  (12122024)              439246.01
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3762792.48        4.69170  (12122024)
        439296.01   3762792.48        4.90676  (12122024)               439346.01
3762792.48        5.11543  (12122024)
        439396.01   3762792.48        5.58409  (12011324)               439446.01
3762792.48        6.18628  (12011324)
        439496.01   3762792.48        6.81656  (12011324)               439546.01
3762792.48        7.46276  (12011324)
        439196.01   3762842.48        4.12917  (12122024)               439246.01
3762842.48        4.30027  (12011324)
        439296.01   3762842.48        4.72914  (12011324)               439346.01
3762842.48        5.18649  (12011324)
        439396.01   3762842.48        5.66366  (12011324)               439446.01
3762842.48        6.14930  (12011324)
        439496.01   3762842.48        6.61979  (12011324)               439546.01
3762842.48        7.05496  (12011324)
        439573.31   3762470.54        8.85003  (12122024)               439623.31
3762470.54       10.16200  (12122024)
        439673.31   3762470.54       11.77265  (12122024)               439723.31
3762470.54       13.77482  (12122024)
        439773.31   3762470.54       16.30395  (12122024)               439823.31
3762470.54       19.53657  (12122024)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        20:40:17

                                    PAGE  74
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439873.31   3762470.54       23.75579  (12122024)               439573.31
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3762520.54        9.60511  (12122024)
        439623.31   3762520.54       10.93280  (12122024)                439673.31
3762520.54       12.52239  (12122024)
        439723.31   3762520.54       14.43002  (12122024)                439773.31
3762520.54       16.72478  (12122024)
        439823.31   3762520.54       19.48346  (12122024)                439873.31
3762520.54       22.81728  (12122024)
        439573.31   3762570.54        9.80641  (12122024)                439623.31
3762570.54       10.97814  (12122024)
        439673.31   3762570.54       12.31199  (12122024)                439723.31
3762570.54       13.82007  (12122024)
        439773.31   3762570.54       15.50567  (12122024)                439823.31
3762570.54       17.35328  (12122024)
        439873.31   3762570.54       19.30032  (12122024)                439573.31
3762620.54        9.41632  (12122024)
        439623.31   3762620.54       10.30432  (12122024)                439673.31
3762620.54       11.24820  (12122024)
        439723.31   3762620.54       12.22565  (12122024)                439773.31
3762620.54       13.39939  (12011324)
        439823.31   3762620.54       15.73415  (12011324)                439873.31
3762620.54       18.26107  (12011324)
        439573.31   3762670.54        8.56279  (12122024)                439623.31
3762670.54        9.12679  (12122024)
        439673.31   3762670.54       10.11593  (12011324)                439723.31
3762670.54       11.58767  (12011324)
        439773.31   3762670.54       13.14733  (12011324)                439823.31
3762670.54       14.69354  (12011324)
        439873.31   3762670.54       16.83288  (12020424)                439152.35
3761448.92        2.99714  (16122724)
        439202.35   3761448.92        3.02582  (16122724)                439252.35
3761448.92        3.02570  (16122724)
        439302.35   3761448.92        3.21493  (15031324)                439352.35
3761448.92        3.42105  (15031324)
        439402.35   3761448.92        3.59736  (15031324)                439452.35
3761448.92        3.73074  (15031324)
        439502.35   3761448.92        3.82136  (15031324)                439552.35
3761448.92        3.84197  (15031324)
        439152.35   3761498.92        3.16093  (16122724)                439202.35
3761498.92        3.24549  (16122724)
        439252.35   3761498.92        3.30307  (16122724)                439302.35
3761498.92        3.30040  (16122724)
        439352.35   3761498.92        3.50092  (15031324)                439402.35
3761498.92        3.73028  (15031324)
        439452.35   3761498.92        3.92403  (15031324)                439502.35
3761498.92        4.08465  (15031324)
        439552.35   3761498.92        4.17413  (15031324)                439152.35
3761548.92        3.28997  (16122724)
        439202.35   3761548.92        3.42103  (16122724)                439252.35
3761548.92        3.52917  (16122724)
        439302.35   3761548.92        3.58527  (16122724)                439352.35
3761548.92        3.59028  (16122724)
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        439402.35   3761548.92        3.81331  (15031324)               439452.35
3761548.92        4.08076  (15031324)
        439502.35   3761548.92        4.30937  (15031324)               439552.35
3761548.92        4.48506  (15031324)
        439152.35   3761598.92        3.38129  (16122724)               439202.35
3761598.92        3.55326  (16122724)
        439252.35   3761598.92        3.71450  (16122724)               439302.35
3761598.92        3.84167  (16122724)
        439352.35   3761598.92        3.91473  (16122724)               439402.35
3761598.92        3.94607  (16122724)
        439452.35   3761598.92        4.19496  (15031324)               439502.35
3761598.92        4.50029  (15031324)
        439552.35   3761598.92        4.77327  (15031324)               439152.35
3761648.92        3.43360  (16122724)
        439202.35   3761648.92        3.64823  (16122724)               439252.35
3761648.92        3.86173  (16122724)
        439302.35   3761648.92        4.05553  (16122724)               439352.35
3761648.92        4.20967  (16122724)
        439402.35   3761648.92        4.32373  (16122724)               439452.35
3761648.92        4.36896  (16122724)
        439502.35   3761648.92        4.64772  (15031324)               439552.35
3761648.92        5.01956  (15031324)
        439152.35   3761698.92        3.66072  (14122624)               439202.35
3761698.92        3.76026  (14122624)
        439252.35   3761698.92        3.94867  (16122724)               439302.35
3761698.92        4.20393  (16122724)
        439352.35   3761698.92        4.44476  (16122724)               439402.35
3761698.92        4.65561  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        20:40:17

                                    PAGE  75
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439452.35	3761698.92	4.78666	(16122724)	439502.35	3761698.92	4.86954	(16122724)
439552.35	3761698.92	5.18821	(15031324)	439152.35	3761748.92	3.85331	(14122624)
439202.35	3761748.92	4.01831	(14122624)	439252.35	3761748.92	4.15083	(14122624)
439302.35	3761748.92	4.30092	(16122724)	439352.35	3761748.92	4.60388	(16122724)
439402.35	3761748.92	4.89605	(16122724)	439452.35	3761748.92	5.14396	(16122724)
439502.35	3761748.92	5.32809	(16122724)	439552.35	3761748.92	5.45049	(16122724)
439152.35	3761798.92	3.98225	(14122624)	439202.35	3761798.92	4.21303	(14122624)
439252.35	3761798.92	4.42400	(14122624)	439302.35	3761798.92	4.63520	(14122624)
439352.35	3761798.92	4.79521	(14122624)	439402.35	3761798.92	5.06761	(16122724)
439452.35	3761798.92	5.43490	(16122724)	439502.35	3761798.92	5.73463	(16122724)
439552.35	3761798.92	6.01286	(16122724)	439152.35	3761848.92	4.03773	(14122624)
439202.35	3761848.92	4.32121	(14122624)	439252.35	3761848.92	4.59633	(14122624)
439302.35	3761848.92	4.88321	(14122624)	439352.35	3761848.92	5.13896	(14122624)
439402.35	3761848.92	5.40804	(14122624)	439452.35	3761848.92	5.62650	(16122724)
439502.35	3761848.92	6.04284	(16122724)	439552.35	3761848.92	6.48066	(16122724)
439152.35	3761898.92	4.01734	(14122624)	439202.35	3761898.92	4.34008	(14122624)
439252.35	3761898.92	4.67216	(14122624)	439302.35	3761898.92	5.04892	(14122624)
439352.35	3761898.92	5.41057	(14122624)	439402.35	3761898.92	5.77029	(14122624)
439452.35	3761898.92	6.14131	(14122624)	439502.35	3761898.92	6.45325	(14122624)
439552.35	3761898.92	6.86182	(16122724)	439152.35	3761948.92	3.91388	(14122624)
439202.35	3761948.92	4.26297	(14122624)	439252.35	3761948.92	4.63545	(14122624)
439302.35	3761948.92	5.07646	(14122624)	439352.35	3761948.92	5.53023	(14122624)
439402.35	3761948.92	5.99096	(14122624)	439452.35			

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3761948.92        6.50361  (14122624)
        439502.35   3761948.92        7.00020  (14122624)                439552.35
3761948.92        7.46662  (14122624)
        439152.35   3761998.92        3.84592  (14042924)                439202.35
3761998.92        4.09540  (14122624)
        439252.35   3761998.92        4.48999  (14122624)                439302.35
3761998.92        4.96947  (14122624)
        439352.35   3761998.92        5.49199  (14122624)                439402.35
3761998.92        6.03231  (14122624)
        439452.35   3761998.92        6.64402  (14122624)                439502.35
3761998.92        7.29344  (14122624)
        439552.35   3761998.92        7.97454  (14122624)                439152.35
3762048.92        3.83022  (14042924)
        439202.35   3762048.92        4.12534  (14042924)                439252.35
3762048.92        4.44413  (14042924)
        439302.35   3762048.92        4.79249  (14042924)                439352.35
3762048.92        5.29036  (14122624)
        439402.35   3762048.92        5.89040  (14122624)                439452.35
3762048.92        6.58302  (14122624)
        439502.35   3762048.92        7.35494  (14122624)                439552.35
3762048.92        8.20424  (14122624)
        439616.61   3761420.65        3.55298  (15031324)                439666.61
3761420.65        3.59222  (13010224)
        439716.61   3761420.65        3.57618  (13010224)                439766.61
3761420.65        3.65164  (16121624)
        439816.61   3761420.65        3.78191  (16121624)                439866.61
3761420.65        3.79153  (16121624)
        439616.61   3761470.65        3.94354  (15031324)                439666.61
3761470.65        3.83561  (15031324)
        439716.61   3761470.65        3.89228  (13010224)                439766.61
3761470.65        3.84941  (15010624)
        439816.61   3761470.65        4.03443  (16121624)                439866.61
3761470.65        4.12563  (16121624)
        439616.61   3761520.65        4.35250  (15031324)                439666.61
3761520.65        4.29479  (15031324)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                       ***        20:40:17

                                   PAGE  76
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2ONSITE ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
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L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	4.19713	(13010224)	439766.61	3761520.65	4.23101	(13010224)
439816.61	3761520.65	4.29607	(15010624)	439866.61	3761520.65	4.47698	(16121624)
439616.61	3761570.65	4.77554	(15031324)	439666.61	3761570.65	4.79129	(15031324)
439716.61	3761570.65	4.70554	(15031324)	439766.61	3761570.65	4.63284	(13010224)
439816.61	3761570.65	4.60238	(13010224)	439866.61	3761570.65	4.82986	(16121624)
440451.14	3762893.83	8.24378	(16101624)	440501.14	3762893.83	8.53419m	(16031424)
440551.14	3762893.83	9.36107	(16082624)	440601.14	3762893.83	10.16406	(13102424)
440651.14	3762893.83	11.58349	(13102424)	440701.14	3762893.83	12.01065	(16030624)
440751.14	3762893.83	11.66817	(16030624)	440801.14	3762893.83	10.70278	(16030624)
440851.14	3762893.83	9.32368m	(16031424)	440451.14	3762943.83	7.30219	(14013024)
440501.14	3762943.83	7.48872	(15032224)	440551.14	3762943.83	8.02097	(16082624)
440601.14	3762943.83	8.86331	(16082624)	440651.14	3762943.83	9.73927	(13102424)
440701.14	3762943.83	10.53952	(13102424)	440751.14	3762943.83	10.40866	(16030624)
440801.14	3762943.83	10.26790	(16030624)	440851.14	3762943.83	9.60049	(16030624)
441116.67	3763135.31	5.72979	(12120224)	441166.67	3763135.31	5.83337	(12120224)
441116.67	3763185.31	5.58846	(13102424)	441166.67	3763185.31	5.13763	(12120224)
441116.67	3763235.31	5.67011	(13102424)	441166.67	3763235.31	5.11361	(16030624)
441116.67	3763285.31	5.71613	(13102424)	441166.67	3763285.31	5.22298	(13102424)
441116.67	3763335.31	5.60788	(13102424)	441166.67	3763335.31	5.26664	(13102424)

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        441116.67   3763385.31        5.37879  (13102424)               441166.67
3763385.31        5.21318  (13102424)
        441116.67   3763435.31        5.07663  (13102424)               441166.67
3763435.31        5.02747  (13102424)
        440433.43   3762815.13       10.36617  (16101624)               440483.43
3762815.13       10.54696m (16031424)
        440533.43   3762815.13       11.65330  (13021924)               440583.43
3762815.13       13.12368  (16030624)
        440633.43   3762815.13       13.74853  (16030624)               440683.43
3762815.13       13.28779  (16030624)
        440733.43   3762815.13       12.31571  (16030624)               440783.43
3762815.13       11.62972m (16031424)
        440833.43   3762815.13       11.57135  (14032624)               440883.43
3762815.13       11.53251  (14032624)
        440933.43   3762815.13       10.89266  (14032624)               440983.43
3762815.13       10.16152  (14032624)
        440433.43   3762865.13        9.15684  (16101624)               440483.43
3762865.13        8.95144  (15022824)
        440533.43   3762865.13        9.39989m (16031424)               440583.43
3762865.13       10.39351  (16030624)
        440633.43   3762865.13       11.88567  (16030624)               440683.43
3762865.13       12.26841  (16030624)
        440733.43   3762865.13       11.93962  (16030624)               440783.43
3762865.13       10.82859  (16030624)
        440833.43   3762865.13       10.02668m (16031424)               440883.43
3762865.13        9.58475  (14032624)
        440933.43   3762865.13        9.53806  (14032624)               440983.43
3762865.13        9.31833  (14032624)
        441118.27   3762686.02        8.24818  (13040124)               441168.27
3762686.02        7.57909  (13040124)
        441118.27   3762736.02        7.86859  (13040124)               441168.27
3762736.02        7.37099  (13040124)
        441118.27   3762786.02        8.09847  (14032624)               441168.27
3762786.02        7.27499  (14032624)
        441118.27   3762836.02        8.13284  (14032624)               441168.27
3762836.02        7.45195  (14032624)
        440411.67   3762093.41       26.13586  (12010924)               440461.67
3762093.41       23.70395  (14110524)
        440511.67   3762093.41       19.27606  (14110524)               440561.67
3762093.41       15.46486  (14110424)
        440611.67   3762093.41       12.65944  (14110424)               440411.67
3762143.41       33.42308  (14110524)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                        ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
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                                  PAGE  77
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                              *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
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VALUES FOR SOURCE GROUP: P2ONSITE ***
                                INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        440461.67   3762143.41   27.32143 (14110524)   440511.67
3762143.41   21.64766 (14110424)
        440561.67   3762143.41   17.26460 (14110424)   440611.67
3762143.41   15.65591 (14091924)
        440406.61   3762008.86   19.93750 (12010924)   440456.61
3762008.86   17.65219 (14110524)
        440506.61   3762008.86   16.44464 (14110524)   440556.61
3762008.86   14.00210 (14110524)
        440606.61   3762008.86   11.29889 (14110524)   440656.61
3762008.86   9.41808 (14110424)
        440706.61   3762008.86   8.18989 (13011624)   440756.61
3762008.86   8.01818 (15013124)
        440806.61   3762008.86   7.75696 (14091924)   440856.61
3762008.86   7.90408 (14091924)
        440906.61   3762008.86   7.93084b (14072524)   440956.61
3762008.86   7.73951b (14072524)
        441006.61   3762008.86   7.42552b (14072524)   441056.61
3762008.86   7.01478b (14072524)
        441106.61   3762008.86   6.58022b (14072524)   441156.61
3762008.86   6.13405b (14072524)
        440406.61   3762058.86   23.69703 (12010924)   440456.61
3762058.86   21.33827 (14110524)
        440506.61   3762058.86   18.49319 (14110524)   440556.61
3762058.86   14.81428 (14110524)
        440606.61   3762058.86   12.14396 (14110424)   440656.61
3762058.86   10.28341 (15013124)
        440706.61   3762058.86   9.91031 (15013124)   440756.61
3762058.86   9.88539 (14091924)
        440806.61   3762058.86   9.85640b (14072524)   440856.61
3762058.86   9.64869b (14072524)
        440906.61   3762058.86   9.24763b (14072524)   440956.61

3762058.86 8.69939b (14072524)
  441006.61 3762058.86 8.08799b (14072524) 441056.61
3762058.86 7.46456b (14072524)
  441106.61 3762058.86 6.85674b (14072524) 441156.61
3762058.86 6.28397b (14072524)
  440191.38 3762138.44 35.16946m (13010324) 440241.38
3762138.44 38.02620 (16021524)
  440291.38 3762138.44 40.61384c (14012124) 440341.38
3762138.44 38.93699 (12010924)
  440191.38 3762188.44 49.31128 (14120224) 440241.38
3762188.44 54.02668m (13010324)
  440291.38 3762188.44 57.96147c (14012124) 440341.38
3762188.44 53.52754 (12010924)
  440191.38 3762238.44 76.79447 (14120224) 440241.38
3762238.44 86.77540m (13010324)
  440291.38 3762238.44 91.14973 (12010924) 440341.38
3762238.44 75.01427 (12010924)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 ,
  L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	5.26633c	(14012124)	439943.36	3761716.33	6.19670	(13121424)
439170.17	3763092.51	4.24814	(12011324)	439220.17	3763092.51	4.45455	(12011324)
439270.17	3763092.51	4.48577	(12011324)	439320.17	3763092.51	5.07296	(12020424)
439370.17	3763092.51	5.69972	(12020424)	439420.17	3763092.51	6.27788	(12020424)
439470.17	3763092.51	6.55171	(12020424)	439520.17			

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3763092.51        6.88568  (12020424)
        439570.17   3763092.51        7.14423  (12020424)                439620.17
3763092.51        7.16524  (12020424)
        439670.17   3763092.51        6.84455  (12020424)                439720.17
3763092.51        6.13634  (12020424)
        439770.17   3763092.51        6.28028m (15011124)                439820.17
3763092.51        6.81088m (15011124)
        439870.17   3763092.51        7.18401  (13112324)                439170.17
3763142.51        4.09692  (12011324)
        439220.17   3763142.51        4.25594  (12020424)                439270.17
3763142.51        4.74972  (12020424)
        439320.17   3763142.51        5.36824  (12020424)                439370.17
3763142.51        5.89022  (12020424)
        439420.17   3763142.51        6.20907  (12020424)                439470.17
3763142.51        6.62433  (12020424)
        439520.17   3763142.51        6.74608  (12020424)                439570.17
3763142.51        6.58793  (12020424)
        439620.17   3763142.51        6.19835  (12020424)                439670.17
3763142.51        5.62752  (12020424)
        439720.17   3763142.51        5.50401m (15011124)                439770.17
3763142.51        6.01778m (15011124)
        439820.17   3763142.51        6.33916m (15011124)                439870.17
3763142.51        6.53618  (13112324)
        439170.17   3763192.51        4.03311  (12020424)                439220.17
3763192.51        4.52726  (12020424)
        439270.17   3763192.51        4.99613  (12020424)                439320.17
3763192.51        5.47667  (12020424)
        439370.17   3763192.51        5.83756  (12020424)                439420.17
3763192.51        6.04462  (12020424)
        439470.17   3763192.51        6.15045  (12020424)                439520.17
3763192.51        6.02302  (12020424)
        439570.17   3763192.51        5.66912  (12020424)                439620.17
3763192.51        5.11104  (12020424)
        439670.17   3763192.51        4.85704m (15011124)                439720.17
3763192.51        5.39203m (15011124)
        439770.17   3763192.51        5.76183m (15011124)                439820.17
3763192.51        5.85938m (15011124)
        439870.17   3763192.51        5.90408  (13112324)                439170.17
3763242.51        4.32427  (12020424)
        439220.17   3763242.51        4.76727  (12020424)                439270.17
3763242.51        5.15063  (12020424)
        439320.17   3763242.51        5.47948  (12020424)                439370.17
3763242.51        5.68157  (12020424)
        439420.17   3763242.51        5.73315  (12020424)                439470.17
3763242.51        5.62925  (12020424)
        439520.17   3763242.51        5.30388  (12020424)                439570.17
3763242.51        4.79396  (12020424)
        439620.17   3763242.51        4.27944m (15011124)                439670.17
3763242.51        4.73382m (15011124)
        439720.17   3763242.51        5.14204m (15011124)                439770.17
3763242.51        5.36303m (15011124)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 ,
L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439820.17	3763242.51	5.34253	(13112324)	439870.17	3763242.51	5.31417	(13112324)
439170.17	3763292.51	4.51268	(12020424)	439220.17	3763292.51	4.90190	(12020424)
439270.17	3763292.51	5.17791	(12020424)	439320.17	3763292.51	5.32469	(12020424)
439370.17	3763292.51	5.31584	(12020424)	439420.17	3763292.51	5.21473	(12020424)
439470.17	3763292.51	4.92227	(12020424)	439520.17	3763292.51	4.45665	(12020424)
439570.17	3763292.51	3.88434m	(15011124)	439620.17	3763292.51	4.26465m	(15011124)
439670.17	3763292.51	4.59225m	(15011124)	439720.17	3763292.51	4.86735m	(15011124)
439770.17	3763292.51	4.98651m	(15011124)	439820.17	3763292.51	4.85895	(13112324)
439870.17	3763292.51	4.78421	(13112324)	439170.17	3763342.51	4.59163	(12020424)
439220.17	3763342.51	4.85503	(12020424)	439270.17	3763342.51	4.96030	(12020424)
439320.17	3763342.51	4.96665	(12020424)	439370.17	3763342.51	4.81847	(12020424)
439420.17	3763342.51	4.56231	(12020424)	439470.17	3763342.51	4.15704	(12020424)
439520.17	3763342.51	3.62892	(12020424)	439570.17	3763342.51	3.87356m	(15011124)

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        439620.17   3763342.51        4.15294m (15011124)               439670.17
3763342.51        4.40522m (15011124)
        439720.17   3763342.51        4.55389m (15011124)               439770.17
3763342.51        4.55520m (15011124)
        439820.17   3763342.51        4.41647  (13112324)               439870.17
3763342.51        4.31229  (13112324)
        439170.17   3763392.51        4.54628  (12020424)               439220.17
3763392.51        4.66709  (12020424)
        439270.17   3763392.51        4.63733  (12020424)               439320.17
3763392.51        4.52595  (12020424)
        439370.17   3763392.51        4.26266  (12020424)               439420.17
3763392.51        3.89135  (12020424)
        439470.17   3763392.51        3.41116  (12020424)               439520.17
3763392.51        3.53499m (15011124)
        439570.17   3763392.51        3.80729m (15011124)               439620.17
3763392.51        4.01817m (15011124)
        439670.17   3763392.51        4.20195m (15011124)               439720.17
3763392.51        4.22139m (15011124)
        439770.17   3763392.51        4.09778m (15011124)               439820.17
3763392.51        4.02385  (13112324)
        439870.17   3763392.51        3.90073  (13112324)               439170.17
3763442.51        4.37656  (12020424)
        439220.17   3763442.51        4.36808  (12020424)               439270.17
3763442.51        4.22320  (12020424)
        439320.17   3763442.51        3.99008  (12020424)               439370.17
3763442.51        3.65315  (12020424)
        439420.17   3763442.51        3.22897  (12020424)               439470.17
3763442.51        3.23640m (15011124)
        439520.17   3763442.51        3.48226m (15011124)               439570.17
3763442.51        3.71245m (15011124)
        439620.17   3763442.51        3.86796m (15011124)               439670.17
3763442.51        3.95788m (15011124)
        439720.17   3763442.51        3.90282m (15011124)               439770.17
3763442.51        3.74634  (13112324)
        439820.17   3763442.51        3.67279  (13112324)               439870.17
3763442.51        3.54135  (13112324)
        439203.20   3762911.16        4.11707  (12011324)               439253.20
3762911.16        4.46821  (12011324)
        439303.20   3762911.16        4.83335  (12011324)               439353.20
3762911.16        5.20709  (12011324)
        439403.20   3762911.16        5.56837  (12011324)               439453.20
3762911.16        5.90401  (12011324)
        439503.20   3762911.16        6.19703  (12011324)               439553.20
3762911.16        6.86690  (12020424)
        439203.20   3762961.16        4.15016  (12011324)               439253.20
3762961.16        4.44204  (12011324)
        439303.20   3762961.16        4.72680  (12011324)               439353.20
3762961.16        4.99796  (12011324)
        439403.20   3762961.16        5.23897  (12011324)               439453.20
3762961.16        5.49058  (12020424)
        439503.20   3762961.16        6.23171  (12020424)               439553.20
```

3762961.16 6.98039 (12020424)
  439203.20 3763011.16 4.34959 (12011324) 439253.20
3763011.16 4.66249 (12011324)
  439303.20 3763011.16 4.94857 (12011324) 439353.20
3763011.16 5.18394 (12011324)
  439403.20 3763011.16 5.06330 (12020424) 439453.20
3763011.16 5.77698 (12020424)
  439503.20 3763011.16 6.29661 (12020424) 439553.20
3763011.16 7.09559 (12020424)
  439203.20 3763061.16 4.42465 (12011324) 439253.20
3763061.16 4.75139 (12011324)
  439303.20 3763061.16 4.82516 (12011324) 439353.20
3763061.16 5.31522 (12020424)
  439403.20 3763061.16 5.92168 (12020424) 439453.20
3763061.16 6.45020 (12020424)
  439503.20 3763061.16 6.85214 (12020424) 439553.20
3763061.16 7.35634 (12020424)
  439196.01 3762392.48 3.72459 (16020824) 439246.01
3762392.48 4.03891 (16020824)
  439296.01 3762392.48 4.39574 (16020824) 439346.01
3762392.48 4.80449 (16020824)
  439396.01 3762392.48 5.27534 (16020824) 439446.01
3762392.48 5.81949 (16020824)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2IDLE ***
INCLUDING SOURCE(S): L0013628 , L0013629 , L0013630 , L0013631 , L0013632 ,
  L0013633 , L0013634 , L0013635 , L0013636 , L0013637 , L0013638 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439496.01	3762392.48	6.46500	(16020824)	439546.01	3762392.48	7.23542	(16020824)
439196.01	3762442.48	3.58766	(12122024)	439246.01			

3762442.48 3.91886 (12122024)
439296.01 3762442.48 4.30284 (12122024) 439346.01
3762442.48 4.74492 (12122024)
439396.01 3762442.48 5.26189 (12122024) 439446.01
3762442.48 5.87142 (12122024)
439496.01 3762442.48 6.59447 (12122024) 439546.01
3762442.48 7.46297 (12122024)
439196.01 3762492.48 3.99219 (12122024) 439246.01
3762492.48 4.37095 (12122024)
439296.01 3762492.48 4.81054 (12122024) 439346.01
3762492.48 5.32045 (12122024)
439396.01 3762492.48 5.91362 (12122024) 439446.01
3762492.48 6.61105 (12122024)
439496.01 3762492.48 7.44498 (12122024) 439546.01
3762492.48 8.44042 (12122024)
439196.01 3762542.48 4.37277 (12122024) 439246.01
3762542.48 4.78728 (12122024)
439296.01 3762542.48 5.26628 (12122024) 439346.01
3762542.48 5.81681 (12122024)
439396.01 3762542.48 6.45818 (12122024) 439446.01
3762542.48 7.20367 (12122024)
439496.01 3762542.48 8.08303 (12122024) 439546.01
3762542.48 9.11326 (12122024)
439196.01 3762592.48 4.67628 (12122024) 439246.01
3762592.48 5.10863 (12122024)
439296.01 3762592.48 5.59809 (12122024) 439346.01
3762592.48 6.15352 (12122024)
439396.01 3762592.48 6.78858 (12122024) 439446.01
3762592.48 7.51698 (12122024)
439496.01 3762592.48 8.35475 (12122024) 439546.01
3762592.48 9.30922 (12122024)
439196.01 3762642.48 4.86009 (12122024) 439246.01
3762642.48 5.27911 (12122024)
439296.01 3762642.48 5.74468 (12122024) 439346.01
3762642.48 6.26194 (12122024)
439396.01 3762642.48 6.84291 (12122024) 439446.01
3762642.48 7.48834 (12122024)
439496.01 3762642.48 8.20399 (12122024) 439546.01
3762642.48 8.98764 (12122024)
439196.01 3762692.48 4.90203 (12122024) 439246.01
3762692.48 5.28054 (12122024)
439296.01 3762692.48 5.69370 (12122024) 439346.01
3762692.48 6.14133 (12122024)
439396.01 3762692.48 6.62252 (12122024) 439446.01
3762692.48 7.13820 (12122024)
439496.01 3762692.48 7.68263 (12122024) 439546.01
3762692.48 8.24803 (12122024)
439196.01 3762742.48 4.80213 (12122024) 439246.01
3762742.48 5.12130 (12122024)
439296.01 3762742.48 5.45844 (12122024) 439346.01
3762742.48 5.81148 (12122024)

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        439396.01   3762742.48        6.17562  (12122024)               439446.01
3762742.48        6.54482  (12122024)
        439496.01   3762742.48        6.90806  (12122024)               439546.01
3762742.48        7.54531  (12011324)
        439196.01   3762792.48        4.57938  (12122024)               439246.01
3762792.48        4.82991  (12122024)
        439296.01   3762792.48        5.08160  (12122024)               439346.01
3762792.48        5.33316  (12122024)
        439396.01   3762792.48        5.57843  (12122024)               439446.01
3762792.48        6.16931  (12011324)
        439496.01   3762792.48        6.84211  (12011324)               439546.01
3762792.48        7.55368  (12011324)
        439196.01   3762842.48        4.26421  (12122024)               439246.01
3762842.48        4.44392  (12122024)
        439296.01   3762842.48        4.68781  (12011324)               439346.01
3762842.48        5.16066  (12011324)
        439396.01   3762842.48        5.66437  (12011324)               439446.01
3762842.48        6.19082  (12011324)
        439496.01   3762842.48        6.72039  (12011324)               439546.01
3762842.48        7.23506  (12011324)
        439573.31   3762470.54        8.62628  (12122024)               439623.31
3762470.54        9.91821  (12122024)
        439673.31   3762470.54       11.51494  (12122024)               439723.31
3762470.54       13.51705  (12122024)
        439773.31   3762470.54       16.07932  (12122024)               439823.31
3762470.54       19.40783  (12122024)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                        ***        20:40:17

                                   PAGE  81
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
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        439873.31   3762470.54       23.86043  (12122024)                439573.31
3762520.54        9.50782  (12122024)
        439623.31   3762520.54       10.87353  (12122024)                439673.31
3762520.54       12.53430  (12122024)
        439723.31   3762520.54       14.56690  (12122024)                439773.31
3762520.54       17.07193  (12122024)
        439823.31   3762520.54       20.17346  (12122024)                439873.31
3762520.54       24.09532  (12122024)
        439573.31   3762570.54        9.90096  (12122024)                439623.31
3762570.54       11.17277  (12122024)
        439673.31   3762570.54       12.65809  (12122024)                439723.31
3762570.54       14.38717  (12122024)
        439773.31   3762570.54       16.39273  (12122024)                439823.31
3762570.54       18.69612  (12122024)
        439873.31   3762570.54       21.30301  (12122024)                439573.31
3762620.54        9.70389  (12122024)
        439623.31   3762620.54       10.73015  (12122024)                439673.31
3762620.54       11.85874  (12122024)
        439723.31   3762620.54       13.08105  (12122024)                439773.31
3762620.54       14.37463  (12122024)
        439823.31   3762620.54       16.09515  (12011324)                439873.31
3762620.54       19.09435  (12011324)
        439573.31   3762670.54        8.99140  (12122024)                439623.31
3762670.54        9.69886  (12122024)
        439673.31   3762670.54       10.41931  (12122024)                439723.31
3762670.54       11.75117  (12011324)
        439773.31   3762670.54       13.53786  (12011324)                439823.31
3762670.54       15.43278  (12011324)
        439873.31   3762670.54       17.27094  (12011324)                439152.35
3761448.92        2.86012  (16122724)
        439202.35   3761448.92        2.86205  (16122724)                439252.35
3761448.92        2.98426  (15031324)
        439302.35   3761448.92        3.17554  (15031324)                439352.35
3761448.92        3.34627  (15031324)
        439402.35   3761448.92        3.48591  (15031324)                439452.35
3761448.92        3.58347  (15031324)
        439502.35   3761448.92        3.64116  (15031324)                439552.35
3761448.92        3.63391  (15031324)
        439152.35   3761498.92        3.04600  (16122724)                439202.35
3761498.92        3.09846  (16122724)
        439252.35   3761498.92        3.12405  (16122724)                439302.35
3761498.92        3.24711  (15031324)
        439352.35   3761498.92        3.45880  (15031324)                439402.35
3761498.92        3.64670  (15031324)
        439452.35   3761498.92        3.79729  (15031324)                439502.35
3761498.92        3.91547  (15031324)
        439552.35   3761498.92        3.96603  (15031324)                439152.35
3761548.92        3.20466  (16122724)
        439202.35   3761548.92        3.30056  (16122724)                439252.35
3761548.92        3.37121  (16122724)
        439302.35   3761548.92        3.38966  (16122724)                439352.35
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3761548.92        3.51776  (15031324)
        439402.35   3761548.92        3.76760  (15031324)                439452.35
3761548.92        3.98643  (15031324)
        439502.35   3761548.92        4.16379  (15031324)                439552.35
3761548.92        4.28878  (15031324)
        439152.35   3761598.92        3.33101  (16122724)                439202.35
3761598.92        3.46755  (16122724)
        439252.35   3761598.92        3.58853  (16122724)                439302.35
3761598.92        3.67188  (16122724)
        439352.35   3761598.92        3.70016  (16122724)                439402.35
3761598.92        3.85305  (15031324)
        439452.35   3761598.92        4.14553  (15031324)                439502.35
3761598.92        4.39284  (15031324)
        439552.35   3761598.92        4.60412  (15031324)                439152.35
3761648.92        3.42048  (16122724)
        439202.35   3761648.92        3.60281  (16122724)                439252.35
3761648.92        3.77684  (16122724)
        439302.35   3761648.92        3.92433  (16122724)                439352.35
3761648.92        4.02694  (16122724)
        439402.35   3761648.92        4.08682  (16122724)                439452.35
3761648.92        4.25102  (15031324)
        439502.35   3761648.92        4.59404  (15031324)                439552.35
3761648.92        4.89602  (15031324)
        439152.35   3761698.92        3.51174  (14122624)                439202.35
3761698.92        3.69575  (16122724)
        439252.35   3761698.92        3.90997  (16122724)                439302.35
3761698.92        4.12122  (16122724)
        439352.35   3761698.92        4.30888  (16122724)                439402.35
3761698.92        4.45876  (16122724)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       20:40:17

                                   PAGE  82
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                   INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                  L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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        439152.35   3761998.92        3.86872  (14122624)                439202.35
3761998.92        4.22017  (14122624)
        439252.35   3761998.92        4.60317  (14122624)                439302.35
3761998.92        5.06586  (14122624)
        439352.35   3761998.92        5.55996  (14122624)                439402.35
3761998.92        6.05560  (14122624)
        439452.35   3761998.92        6.60667  (14122624)                439502.35
3761998.92        7.17449  (14122624)
        439552.35   3761998.92        7.75074  (14122624)                439152.35
3762048.92        3.82544  (14042924)
        439202.35   3762048.92        4.10586  (14042924)                439252.35
3762048.92        4.45956  (14122624)
        439302.35   3762048.92        4.93026  (14122624)                439352.35
3762048.92        5.45678  (14122624)
        439402.35   3762048.92        6.03470  (14122624)                439452.35
3762048.92        6.69055  (14122624)
        439502.35   3762048.92        7.40387  (14122624)                439552.35
3762048.92        8.16642  (14122624)
        439616.61   3761420.65        3.34477  (13010224)                439666.61
3761420.65        3.39040  (13010224)
        439716.61   3761420.65        3.37737  (15010624)                439766.61
3761420.65        3.52592  (16121624)
        439816.61   3761420.65        3.59129  (16121624)                439866.61
3761420.65        3.65161m (13010324)
        439616.61   3761470.65        3.70209  (15031324)                439666.61
3761470.65        3.64089  (13010224)
        439716.61   3761470.65        3.65230  (13010224)                439766.61
3761470.65        3.73176  (15010624)
        439816.61   3761470.65        3.85813  (16121624)                439866.61
3761470.65        3.91107  (13121424)
        439616.61   3761520.65        4.09975  (15031324)                439666.61
3761520.65        4.01359  (15031324)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        20:40:17

                                    PAGE  83
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  P2IDLE   ***
                                    INCLUDING SOURCE(S):     L0013628    , L0013629
, L0013630    , L0013631    , L0013632    ,
                L0013633    , L0013634    , L0013635    , L0013636    , L0013637
, L0013638    ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                              ** CONC OF PM_2.5   IN MICROGRAMS/M**3
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**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761520.65	3.97185	(13010224)	439766.61	3761520.65	3.96040	(15010624)
439816.61	3761520.65	4.14008	(16121624)	439866.61	3761520.65	4.23531	(16121624)
439616.61	3761570.65	4.52187	(15031324)	439666.61	3761570.65	4.49365	(15031324)
439716.61	3761570.65	4.37417	(15031324)	439766.61	3761570.65	4.35441	(13010224)
439816.61	3761570.65	4.44475	(15010624)	439866.61	3761570.65	4.60704	(16121624)
440451.14	3762893.83	8.90284	(15022824)	440501.14	3762893.83	9.31202m	(16031424)
440551.14	3762893.83	9.90269	(12110924)	440601.14	3762893.83	11.29508	(13102424)
440651.14	3762893.83	12.25157	(16030624)	440701.14	3762893.83	12.23623	(16030624)
440751.14	3762893.83	11.28242	(16030624)	440801.14	3762893.83	10.28119	(12120224)
440851.14	3762893.83	9.80060	(12120224)	440451.14	3762943.83	7.73203	(15032224)
440501.14	3762943.83	7.95647	(16082624)	440551.14	3762943.83	8.72167	(16082624)
440601.14	3762943.83	9.77704	(13102424)	440651.14	3762943.83	10.53784	(13102424)
440701.14	3762943.83	10.86600	(16030624)	440751.14	3762943.83	10.52360	(16030624)
440801.14	3762943.83	10.05901	(16030624)	440851.14	3762943.83	9.22221	(12120224)
441116.67	3763135.31	6.11184	(12120224)	441166.67	3763135.31	6.12326	(12120224)
441116.67	3763185.31	5.36454	(12120224)	441166.67	3763185.31	5.47880	(12120224)
441116.67	3763235.31	5.47731	(13102424)	441166.67	3763235.31	4.87863	(13102424)
441116.67	3763285.31	5.60013	(13102424)	441166.67	3763285.31	5.04936	(13102424)
441116.67	3763335.31	5.57573	(13102424)	441166.67	3763335.31	5.15690	(13102424)
441116.67	3763385.31	5.42655	(13102424)	441166.67	3763385.31	5.16977	(13102424)
441116.67	3763435.31	5.19568	(13102424)	441166.67	3763435.31	5.05054	(13102424)
440433.43	3762815.13	11.34457	(16101624)	440483.43	3762815.13	12.07258	(13021924)
440533.43	3762815.13	13.40086	(16030624)	440583.43			

3762815.13   14.44461 (16030624)
        440633.43   3762815.13   14.03850 (16030624)   440683.43
3762815.13   12.96909 (16030624)
        440733.43   3762815.13   12.39997m (16031424)   440783.43
3762815.13   12.05458 (14032624)
        440833.43   3762815.13   12.12875 (14032624)   440883.43
3762815.13   11.67454 (14032624)
        440933.43   3762815.13   10.71718 (14032624)   440983.43
3762815.13   9.91405 (14032624)
        440433.43   3762865.13   9.51043 (16101624)   440483.43
3762865.13   10.05018m (16031424)
        440533.43   3762865.13   10.66190 (13021924)   440583.43
3762865.13   12.12674 (16030624)
        440633.43   3762865.13   13.00260 (16030624)   440683.43
3762865.13   12.83216 (16030624)
        440733.43   3762865.13   11.92862 (16030624)   440783.43
3762865.13   10.90032 (12120224)
        440833.43   3762865.13   10.29271 (12120224)   440883.43
3762865.13   10.08055 (14032624)
        440933.43   3762865.13   9.74750 (14032624)   440983.43
3762865.13   9.31333 (14032624)
        441118.27   3762686.02   8.14515m (12050224)   441168.27
3762686.02   7.83584m (12050224)
        441118.27   3762736.02   7.67942 (13040124)   441168.27
3762736.02   7.12665 (13040124)
        441118.27   3762786.02   7.51279 (14032624)   441168.27
3762786.02   6.82252 (13040124)
        441118.27   3762836.02   7.72476 (14032624)   441168.27
3762836.02   7.01351 (14032624)
        440411.67   3762093.41   23.86298 (14110524)   440461.67
3762093.41   21.42170 (14110524)
        440511.67   3762093.41   17.28770 (14110524)   440561.67
3762093.41   13.83326 (14110424)
        440611.67   3762093.41   11.40569 (14110424)   440411.67
3762143.41   30.13575 (14110524)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                               *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: P2IDLE   ***
                                   INCLUDING SOURCE(S):   L0013628   , L0013629
, L0013630   , L0013631   , L0013632   ,
                L0013633   , L0013634   , L0013635   , L0013636   , L0013637
, L0013638   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS

***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	24.26724	(14110524)	440511.67	3762143.41	18.96046	(14110424)
440561.67	3762143.41	15.21421	(14110424)	440611.67	3762143.41	13.69449	(14091924)
440406.61	3762008.86	18.18806	(12010924)	440456.61	3762008.86	16.27319	(14110524)
440506.61	3762008.86	15.03885	(14110524)	440556.61	3762008.86	12.77101	(14110524)
440606.61	3762008.86	10.33648	(14110524)	440656.61	3762008.86	8.65748	(14110424)
440706.61	3762008.86	7.54331	(13011624)	440756.61	3762008.86	7.32793	(15013124)
440806.61	3762008.86	7.00883	(15013124)	440856.61	3762008.86	7.14927	(14091924)
440906.61	3762008.86	7.18869b	(14072524)	440956.61	3762008.86	7.05851b	(14072524)
441006.61	3762008.86	6.82049b	(14072524)	441056.61	3762008.86	6.49208b	(14072524)
441106.61	3762008.86	6.13843b	(14072524)	441156.61	3762008.86	5.76792b	(14072524)
440406.61	3762058.86	21.34658	(12010924)	440456.61	3762058.86	19.46471	(14110524)
440506.61	3762058.86	16.74326	(14110524)	440556.61	3762058.86	13.39415	(14110524)
440606.61	3762058.86	11.00689	(14110424)	440656.61	3762058.86	9.29791	(13011624)
440706.61	3762058.86	8.98974	(15013124)	440756.61	3762058.86	8.85332	(14091924)
440806.61	3762058.86	8.83666b	(14072524)	440856.61	3762058.86	8.71207b	(14072524)
440906.61	3762058.86	8.41963b	(14072524)	440956.61	3762058.86	7.99077b	(14072524)
441006.61	3762058.86	7.49676b	(14072524)	441056.61	3762058.86	6.98127b	(14072524)
441106.61	3762058.86	6.46825b	(14072524)	441156.61	3762058.86	5.97599b	(14072524)
440191.38	3762138.44	32.69978m	(13010324)	440241.38	3762138.44	34.93911	(16021524)
440291.38	3762138.44	36.58284c	(14012124)	440341.38	3762138.44	34.96178	(12010924)
440191.38	3762188.44	43.61597m	(13010324)	440241.38	3762188.44	47.46843	(16021524)

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440407.86	3761497.84	0.10941b	(14090824)	439943.36	3761716.33	0.33795	(12122424)
439170.17	3763092.51	0.05531	(15113024)	439220.17	3763092.51	0.05726	(15113024)
439270.17	3763092.51	0.05853	(15113024)	439320.17	3763092.51	0.05871	(15113024)
439370.17	3763092.51	0.05771	(15113024)	439420.17	3763092.51	0.05544	(15113024)
439470.17	3763092.51	0.05179	(15113024)	439520.17	3763092.51	0.04669	(15113024)
439570.17	3763092.51	0.04139	(14120824)	439620.17	3763092.51	0.04120	(14120824)
439670.17	3763092.51	0.04050	(14120824)	439720.17	3763092.51	0.04227c	(14041424)
439770.17	3763092.51	0.06169c	(14041424)	439820.17	3763092.51	0.08465c	(14041424)
439870.17	3763092.51	0.10850c	(14041424)	439170.17	3763142.51	0.05004	(15113024)
439220.17	3763142.51	0.05046	(15113024)	439270.17	3763142.51	0.05017	(15113024)
439320.17	3763142.51	0.04882	(15113024)	439370.17	3763142.51	0.04647	(15113024)
439420.17	3763142.51	0.04314	(15113024)	439470.17			

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3763142.51        0.03863  (15113024)
        439520.17   3763142.51        0.03652  (14120824)               439570.17
3763142.51        0.03624  (14120824)
        439620.17   3763142.51        0.03554  (14120824)               439670.17
3763142.51        0.03433  (14120824)
        439720.17   3763142.51        0.04724c (14041424)               439770.17
3763142.51        0.06532c (14041424)
        439820.17   3763142.51        0.08509c (14041424)               439870.17
3763142.51        0.10370c (14041424)
        439170.17   3763192.51        0.04382  (15113024)               439220.17
3763192.51        0.04306  (15113024)
        439270.17   3763192.51        0.04162  (15113024)               439320.17
3763192.51        0.03926  (15113024)
        439370.17   3763192.51        0.03618  (15113024)               439420.17
3763192.51        0.03287  (14120824)
        439470.17   3763192.51        0.03268  (14120824)               439520.17
3763192.51        0.03224  (14120824)
        439570.17   3763192.51        0.03151  (14120824)               439620.17
3763192.51        0.03043  (14120824)
        439670.17   3763192.51        0.03670c (14041424)               439720.17
3763192.51        0.05083c (14041424)
        439770.17   3763192.51        0.06695c (14041424)               439820.17
3763192.51        0.08333c (14041424)
        439870.17   3763192.51        0.09719c (14041424)               439170.17
3763242.51        0.03723  (15113024)
        439220.17   3763242.51        0.03564  (15113024)               439270.17
3763242.51        0.03348  (15113024)
        439320.17   3763242.51        0.03067  (15113024)               439370.17
3763242.51        0.02983  (14120824)
        439420.17   3763242.51        0.02955  (14120824)               439470.17
3763242.51        0.02902  (14120824)
        439520.17   3763242.51        0.02826  (14120824)               439570.17
3763242.51        0.02723  (14120824)
        439620.17   3763242.51        0.02902c (14041424)               439670.17
3763242.51        0.04031c (14041424)
        439720.17   3763242.51        0.05338c (14041424)               439770.17
3763242.51        0.06727c (14041424)
        439820.17   3763242.51        0.08016c (14041424)               439870.17
3763242.51        0.08978c (14041424)
        439170.17   3763292.51        0.03075  (15113024)               439220.17
3763292.51        0.02858  (15113024)
        439270.17   3763292.51        0.02752  (14120824)               439320.17
3763292.51        0.02729  (14120824)
        439370.17   3763292.51        0.02693  (14120824)               439420.17
3763292.51        0.02636  (14120824)
        439470.17   3763292.51        0.02558  (14120824)               439520.17
3763292.51        0.02458  (14120824)
        439570.17   3763292.51        0.02338  (14120824)               439620.17
3763292.51        0.03220c (14041424)
        439670.17   3763292.51        0.04302c (14041424)               439720.17
3763292.51        0.05477c (14041424)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439770.17	3763292.51	0.06626c	(14041424)	439820.17	3763292.51	0.07604c	(14041424)
439870.17	3763292.51	0.08214c	(14041424)	439170.17	3763342.51	0.02576	(14120824)
439220.17	3763342.51	0.02553	(14120824)	439270.17	3763342.51	0.02522	(14120824)
439320.17	3763342.51	0.02476	(14120824)	439370.17	3763342.51	0.02419	(14120824)
439420.17	3763342.51	0.02341	(14120824)	439470.17	3763342.51	0.02245	(14120824)
439520.17	3763342.51	0.02130	(14120824)	439570.17	3763342.51	0.02593c	(14041424)
439620.17	3763342.51	0.03490c	(14041424)	439670.17	3763342.51	0.04488c	(14041424)
439720.17	3763342.51	0.05514c	(14041424)	439770.17	3763342.51	0.06439c	(14041424)
439820.17	3763342.51	0.07138c	(14041424)	439870.17	3763342.51	0.07462c	(14041424)
439170.17	3763392.51	0.02386	(14120824)	439220.17	3763392.51	0.02346	(14120824)
439270.17	3763392.51	0.02296	(14120824)	439320.17	3763392.51	0.02232	(14120824)
439370.17	3763392.51	0.02158	(14120824)	439420.17	3763392.51	0.02065	(14120824)
439470.17	3763392.51	0.01957	(14120824)	439520.17	3763392.51	0.02105c	(14041424)
439570.17	3763392.51	0.02843c	(14041424)	439620.17	3763392.51	0.03693c	(14041424)
439670.17	3763392.51	0.04589c	(14041424)	439720.17			

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3763392.51        0.05461c (14041424)
        439770.17   3763392.51        0.06180c (14041424)               439820.17
3763392.51        0.06642c (14041424)
        439870.17   3763392.51        0.06742c (14041424)               439170.17
3763442.51        0.02200  (14120824)
        439220.17   3763442.51        0.02144  (14120824)               439270.17
3763442.51        0.02080  (14120824)
        439320.17   3763442.51        0.02004  (14120824)               439370.17
3763442.51        0.01917  (14120824)
        439420.17   3763442.51        0.01816  (14120824)               439470.17
3763442.51        0.01722c (14041424)
        439520.17   3763442.51        0.02334c (14041424)               439570.17
3763442.51        0.03047c (14041424)
        439620.17   3763442.51        0.03832c (14041424)               439670.17
3763442.51        0.04619c (14041424)
        439720.17   3763442.51        0.05330c (14041424)               439770.17
3763442.51        0.05862c (14041424)
        439820.17   3763442.51        0.06129c (14041424)               439870.17
3763442.51        0.06062c (14041424)
        439203.20   3762911.16        0.06974  (14010624)               439253.20
3762911.16        0.07320  (14010624)
        439303.20   3762911.16        0.07924  (15113024)               439353.20
3762911.16        0.08788  (15113024)
        439403.20   3762911.16        0.09604  (15113024)               439453.20
3762911.16        0.10331  (15113024)
        439503.20   3762911.16        0.10914  (15113024)               439553.20
3762911.16        0.11250  (15113024)
        439203.20   3762961.16        0.06458  (15113024)               439253.20
3762961.16        0.07109  (15113024)
        439303.20   3762961.16        0.07737  (15113024)               439353.20
3762961.16        0.08320  (15113024)
        439403.20   3762961.16        0.08809  (15113024)               439453.20
3762961.16        0.09139  (15113024)
        439503.20   3762961.16        0.09283  (15113024)               439553.20
3762961.16        0.09156  (15113024)
        439203.20   3763011.16        0.06347  (15113024)               439253.20
3763011.16        0.06809  (15113024)
        439303.20   3763011.16        0.07208  (15113024)               439353.20
3763011.16        0.07511  (15113024)
        439403.20   3763011.16        0.07706  (15113024)               439453.20
3763011.16        0.07707  (15113024)
        439503.20   3763011.16        0.07521  (15113024)               439553.20
3763011.16        0.07089  (15113024)
        439203.20   3763061.16        0.05993  (15113024)               439253.20
3763061.16        0.06255  (15113024)
        439303.20   3763061.16        0.06434  (15113024)               439353.20
3763061.16        0.06496  (15113024)
        439403.20   3763061.16        0.06428  (15113024)               439453.20
3763061.16        0.06204  (15113024)
        439503.20   3763061.16        0.05815  (15113024)               439553.20
3763061.16        0.05245  (15113024)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439196.01	3762392.48	0.08895	(14120124)	439246.01	3762392.48	0.09792	(14120124)
439296.01	3762392.48	0.10837	(14120124)	439346.01	3762392.48	0.12065	(14120124)
439396.01	3762392.48	0.13527	(14120124)	439446.01	3762392.48	0.15286	(14120124)
439496.01	3762392.48	0.17417	(14120124)	439546.01	3762392.48	0.20047	(14120124)
439196.01	3762442.48	0.07641	(14120124)	439246.01	3762442.48	0.08387	(14120124)
439296.01	3762442.48	0.09251	(14120124)	439346.01	3762442.48	0.10262	(14120124)
439396.01	3762442.48	0.11456	(14120124)	439446.01	3762442.48	0.12882	(14120124)
439496.01	3762442.48	0.14617	(14120124)	439546.01	3762442.48	0.16753	(14120124)
439196.01	3762492.48	0.07732	(16122624)	439246.01	3762492.48	0.08525	(16122624)
439296.01	3762492.48	0.09432	(16122624)	439346.01	3762492.48	0.10475	(16122624)
439396.01	3762492.48	0.11744	(12020624)	439446.01	3762492.48	0.13715	(12020624)
439496.01	3762492.48	0.16137	(12020624)	439546.01	3762492.48	0.19153	(12020624)
439196.01	3762542.48	0.08683	(12020624)	439246.01	3762542.48	0.09837	(12020624)
439296.01	3762542.48	0.11186	(12020624)	439346.01	3762542.48	0.12777	(12020624)
439396.01	3762542.48	0.14656	(12020624)	439446.01			

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3762542.48        0.16897  (12020624)
        439496.01   3762542.48        0.19570  (12020624)                439546.01
3762542.48        0.22806  (12020624)
        439196.01   3762592.48        0.10308  (12020624)                439246.01
3762592.48        0.11537  (12020624)
        439296.01   3762592.48        0.12949  (12020624)                439346.01
3762592.48        0.14566  (12020624)
        439396.01   3762592.48        0.16423  (12020624)                439446.01
3762592.48        0.18551  (12020624)
        439496.01   3762592.48        0.20980  (12020624)                439546.01
3762592.48        0.23775  (12020624)
        439196.01   3762642.48        0.11286  (12020624)                439246.01
3762642.48        0.12430  (12020624)
        439296.01   3762642.48        0.13704  (12020624)                439346.01
3762642.48        0.15103  (12020624)
        439396.01   3762642.48        0.16624  (12020624)                439446.01
3762642.48        0.18268  (12020624)
        439496.01   3762642.48        0.20016  (12020624)                439546.01
3762642.48        0.21867  (12020624)
        439196.01   3762692.48        0.11437  (12020624)                439246.01
3762692.48        0.12346  (12020624)
        439296.01   3762692.48        0.13292  (12020624)                439346.01
3762692.48        0.14271  (12020624)
        439396.01   3762692.48        0.15266  (12020624)                439446.01
3762692.48        0.16229  (12020624)
        439496.01   3762692.48        0.17119  (12020624)                439546.01
3762692.48        0.17896  (12020624)
        439196.01   3762742.48        0.10763  (12020624)                439246.01
3762742.48        0.11340  (12020624)
        439296.01   3762742.48        0.11888  (12020624)                439346.01
3762742.48        0.12383  (12020624)
        439396.01   3762742.48        0.12796  (12020624)                439446.01
3762742.48        0.13088  (12020624)
        439496.01   3762742.48        0.13395  (14010624)                439546.01
3762742.48        0.15089  (16010424)
        439196.01   3762792.48        0.09429  (12020624)                439246.01
3762792.48        0.09679  (12020624)
        439296.01   3762792.48        0.09834  (12020624)                439346.01
3762792.48        0.09891  (12020624)
        439396.01   3762792.48        0.10591  (14010624)                439446.01
3762792.48        0.11601  (16010424)
        439496.01   3762792.48        0.12833  (16010424)                439546.01
3762792.48        0.14224  (15113024)
        439196.01   3762842.48        0.07709  (12020624)                439246.01
3762842.48        0.07877  (14010624)
        439296.01   3762842.48        0.08567  (14010624)                439346.01
3762842.48        0.09206  (14010624)
        439396.01   3762842.48        0.10023  (16010424)                439446.01
3762842.48        0.10992  (15113024)
        439496.01   3762842.48        0.12257  (15113024)                439546.01
3762842.48        0.13452  (15113024)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	0.74378	(12020624)	439573.31	3762520.54	0.23560	(12020624)
439623.31	3762520.54	0.28050	(12020624)	439673.31	3762520.54	0.33699	(12020624)
439723.31	3762520.54	0.40867	(12020624)	439773.31	3762520.54	0.49951	(12020624)
439823.31	3762520.54	0.61425	(12020624)	439873.31	3762520.54	0.75634	(12020624)
439573.31	3762570.54	0.25622	(12020624)	439623.31	3762570.54	0.29562	(12020624)
439673.31	3762570.54	0.34189	(12020624)	439723.31	3762570.54	0.39609	(12020624)
439773.31	3762570.54	0.45795	(12020624)	439823.31	3762570.54	0.52533	(12020624)
439873.31	3762570.54	0.59233	(12020624)	439573.31	3762620.54	0.24368	(12020624)
439623.31	3762620.54	0.26945	(12020624)	439673.31	3762620.54	0.29633	(12020624)
439723.31	3762620.54	0.32310	(12020624)	439773.31	3762620.54	0.34729	(12020624)
439823.31	3762620.54	0.38687	(16010424)	439873.31	3762620.54	0.45940	(15113024)
439573.31	3762670.54	0.20452	(12020624)	439623.31			

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3762670.54        0.21470  (12020624)
        439673.31   3762670.54        0.22334  (16010424)                439723.31
3762670.54        0.25980  (16010424)
        439773.31   3762670.54        0.29887  (15113024)                439823.31
3762670.54        0.35113  (15113024)
        439873.31   3762670.54        0.39783  (15113024)                439152.35
3761448.92        0.07983c (12121724)
        439202.35   3761448.92        0.08091c (12121724)                439252.35
3761448.92        0.08161c (12121724)
        439302.35   3761448.92        0.08178c (12121724)                439352.35
3761448.92        0.08137c (12121724)
        439402.35   3761448.92        0.08027c (12121724)                439452.35
3761448.92        0.07848c (12121724)
        439502.35   3761448.92        0.07598c (12121724)                439552.35
3761448.92        0.07371  (12122424)
        439152.35   3761498.92        0.08106c (12121724)                439202.35
3761498.92        0.08281c (12121724)
        439252.35   3761498.92        0.08420c (12121724)                439302.35
3761498.92        0.08505c (12121724)
        439352.35   3761498.92        0.08534c (12121724)                439402.35
3761498.92        0.08501c (12121724)
        439452.35   3761498.92        0.08393c (12121724)                439502.35
3761498.92        0.08212c (12121724)
        439552.35   3761498.92        0.07947c (12121724)                439152.35
3761548.92        0.08166c (12121724)
        439202.35   3761548.92        0.08404c (12121724)                439252.35
3761548.92        0.08612c (12121724)
        439302.35   3761548.92        0.08771c (12121724)                439352.35
3761548.92        0.08883c (12121724)
        439402.35   3761548.92        0.08938c (12121724)                439452.35
3761548.92        0.08923c (12121724)
        439502.35   3761548.92        0.08826c (12121724)                439552.35
3761548.92        0.08643c (12121724)
        439152.35   3761598.92        0.08153c (12121724)                439202.35
3761598.92        0.08455c (12121724)
        439252.35   3761598.92        0.08734c (12121724)                439302.35
3761598.92        0.08979c (12121724)
        439352.35   3761598.92        0.09178c (12121724)                439402.35
3761598.92        0.09332c (12121724)
        439452.35   3761598.92        0.09420c (12121724)                439502.35
3761598.92        0.09430c (12121724)
        439552.35   3761598.92        0.09351c (12121724)                439152.35
3761648.92        0.08059c (12121724)
        439202.35   3761648.92        0.08427c (12121724)                439252.35
3761648.92        0.08782c (12121724)
        439302.35   3761648.92        0.09111c (12121724)                439352.35
3761648.92        0.09407c (12121724)
        439402.35   3761648.92        0.09664c (12121724)                439452.35
3761648.92        0.09867c (12121724)
        439502.35   3761648.92        0.10003c (12121724)                439552.35
3761648.92        0.10055c (12121724)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439152.35	3761698.92	0.07879c	(12121724)	439202.35	3761698.92	0.08308c	(12121724)
439252.35	3761698.92	0.08732c	(12121724)	439302.35	3761698.92	0.09149c	(12121724)
439352.35	3761698.92	0.09548c	(12121724)	439402.35	3761698.92	0.09918c	(12121724)
439452.35	3761698.92	0.10243c	(12121724)	439502.35	3761698.92	0.10521c	(12121724)
439552.35	3761698.92	0.10724c	(12121724)	439152.35	3761748.92	0.07608c	(12121724)
439202.35	3761748.92	0.08092c	(12121724)	439252.35	3761748.92	0.08583c	(12121724)
439302.35	3761748.92	0.09085c	(12121724)	439352.35	3761748.92	0.09581c	(12121724)
439402.35	3761748.92	0.10067c	(12121724)	439452.35	3761748.92	0.10529c	(12121724)
439502.35	3761748.92	0.10956c	(12121724)	439552.35	3761748.92	0.11337c	(12121724)
439152.35	3761798.92	0.07255c	(12121724)	439202.35	3761798.92	0.07781c	(12121724)
439252.35	3761798.92	0.08331c	(12121724)	439302.35	3761798.92	0.08907c	(12121724)
439352.35	3761798.92	0.09496c	(12121724)	439402.35	3761798.92	0.10098c	(12121724)
439452.35	3761798.92	0.10704c	(12121724)	439502.35	3761798.92	0.11296c	(12121724)
439552.35	3761798.92	0.11868c	(12121724)	439152.35	3761848.92	0.06824c	(12121724)
439202.35	3761848.92	0.07377c	(12121724)	439252.35			

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3761848.92        0.07968c (12121724)
        439302.35   3761848.92        0.08604c (12121724)               439352.35
3761848.92        0.09277c (12121724)
        439402.35   3761848.92        0.09994c (12121724)               439452.35
3761848.92        0.10738c (12121724)
        439502.35   3761848.92        0.11501c (12121724)               439552.35
3761848.92        0.12283c (12121724)
        439152.35   3761898.92        0.06316c (12121724)               439202.35
3761898.92        0.06886c (12121724)
        439252.35   3761898.92        0.07506c (12121724)               439302.35
3761898.92        0.08186c (12121724)
        439352.35   3761898.92        0.08928c (12121724)               439402.35
3761898.92        0.09733c (12121724)
        439452.35   3761898.92        0.10608c (12121724)               439502.35
3761898.92        0.11545c (12121724)
        439552.35   3761898.92        0.12534c (12121724)               439152.35
3761948.92        0.06261  (12010224)
        439202.35   3761948.92        0.06373  (12010224)               439252.35
3761948.92        0.06944c (12121724)
        439302.35   3761948.92        0.07654c (12121724)               439352.35
3761948.92        0.08440c (12121724)
        439402.35   3761948.92        0.09318c (12121724)               439452.35
3761948.92        0.10301c (12121724)
        439502.35   3761948.92        0.11454  (14112424)               439552.35
3761948.92        0.12581c (12121724)
        439152.35   3761998.92        0.06563  (12010224)               439202.35
3761998.92        0.06739  (12010224)
        439252.35   3761998.92        0.07154  (16012524)               439302.35
3761998.92        0.07603  (16012524)
        439352.35   3761998.92        0.08146c (13101424)               439402.35
3761998.92        0.08855c (13101424)
        439452.35   3761998.92        0.09894  (14112424)               439502.35
3761998.92        0.11524  (14112424)
        439552.35   3761998.92        0.13193  (14112424)               439152.35
3762048.92        0.07452  (14120124)
        439202.35   3762048.92        0.07759  (14120124)               439252.35
3762048.92        0.08067  (14120124)
        439302.35   3762048.92        0.08370  (14120124)               439352.35
3762048.92        0.08999  (16012524)
        439402.35   3762048.92        0.09697  (16012524)               439452.35
3762048.92        0.10413c (13101424)
        439502.35   3762048.92        0.11503c (13101424)               439552.35
3762048.92        0.12786  (14112424)
        439616.61   3761420.65        0.10949  (12122424)               439666.61
3761420.65        0.13439  (12122424)
        439716.61   3761420.65        0.15651  (12122424)               439766.61
3761420.65        0.17219  (12122424)
        439816.61   3761420.65        0.17807  (12122424)               439866.61
3761420.65        0.17214  (12122424)
        439616.61   3761470.65        0.10267  (12122424)               439666.61
3761470.65        0.13099  (12122424)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439716.61	3761470.65	0.15845	(12122424)	439766.61	3761470.65	0.18078	(12122424)
439816.61	3761470.65	0.19363	(12122424)	439866.61	3761470.65	0.19346	(12122424)
439616.61	3761520.65	0.09376	(12122424)	439666.61	3761520.65	0.12477	(12122424)
439716.61	3761520.65	0.15721	(12122424)	439766.61	3761520.65	0.18672	(12122424)
439816.61	3761520.65	0.20786	(12122424)	439866.61	3761520.65	0.21544	(12122424)
439616.61	3761570.65	0.08626c	(12121724)	439666.61	3761570.65	0.11563	(12122424)
439716.61	3761570.65	0.15242	(12122424)	439766.61	3761570.65	0.18913	(12122424)
439816.61	3761570.65	0.21963	(12122424)	439866.61	3761570.65	0.23714	(12122424)
440451.14	3762893.83	0.54775c	(12011624)	440501.14	3762893.83	0.56694c	(12011624)
440551.14	3762893.83	0.51532c	(12011624)	440601.14	3762893.83	0.41883c	(12011624)
440651.14	3762893.83	0.31052c	(12011624)	440701.14	3762893.83	0.23438	(13050624)
440751.14	3762893.83	0.23601	(13050624)	440801.14	3762893.83	0.22016	(13050624)
440851.14	3762893.83	0.19324	(13050624)	440451.14	3762943.83	0.42393c	(12011624)
440501.14	3762943.83	0.46330c	(12011624)	440551.14	3762943.83	0.44890c	(12011624)
440601.14	3762943.83	0.39040c	(12011624)	440651.14			

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3762943.83        0.31118c (12011624)
        440701.14   3762943.83        0.22994c (12011624)               440751.14
3762943.83        0.19511  (13102824)
        440801.14   3762943.83        0.19588  (13050624)               440851.14
3762943.83        0.18442  (13050624)
        441116.67   3763135.31        0.09268  (12021324)               441166.67
3763135.31        0.08495  (12021324)
        441116.67   3763185.31        0.08925  (13050624)               441166.67
3763185.31        0.08284  (12021324)
        441116.67   3763235.31        0.08309  (13050624)               441166.67
3763235.31        0.07938  (13050624)
        441116.67   3763285.31        0.07828  (13102824)               441166.67
3763285.31        0.07402  (13050624)
        441116.67   3763335.31        0.07437  (13102824)               441166.67
3763335.31        0.07062  (13102824)
        441116.67   3763385.31        0.06785  (13102824)               441166.67
3763385.31        0.06750  (13102824)
        441116.67   3763435.31        0.06234  (12022724)               441166.67
3763435.31        0.06207  (13102824)
        440433.43   3762815.13        0.80620c (12011624)               440483.43
3762815.13        0.78689c (12011624)
        440533.43   3762815.13        0.66040c (12011624)               440583.43
3762815.13        0.48832c (12011624)
        440633.43   3762815.13        0.33002  (13050624)               440683.43
3762815.13        0.32497  (13050624)
        440733.43   3762815.13        0.29217  (13050624)               440783.43
3762815.13        0.24486  (13050624)
        440833.43   3762815.13        0.19450  (13050624)               440883.43
3762815.13        0.16361b (12043024)
        440933.43   3762815.13        0.16506b (12043024)               440983.43
3762815.13        0.16016b (12043024)
        440433.43   3762865.13        0.61251c (12011624)               440483.43
3762865.13        0.64398c (12011624)
        440533.43   3762865.13        0.58686c (12011624)               440583.43
3762865.13        0.47417c (12011624)
        440633.43   3762865.13        0.34646c (12011624)               440683.43
3762865.13        0.26547  (13050624)
        440733.43   3762865.13        0.26212  (13050624)               440783.43
3762865.13        0.23922  (13050624)
        440833.43   3762865.13        0.20521  (13050624)               440883.43
3762865.13        0.16775  (13050624)
        440933.43   3762865.13        0.13832  (12032624)               440983.43
3762865.13        0.13203b (12043024)
        441118.27   3762686.02        0.16811  (12042324)               441168.27
3762686.02        0.14600  (12042324)
        441118.27   3762736.02        0.17017  (12042324)               441168.27
3762736.02        0.15425  (12042324)
        441118.27   3762786.02        0.15147  (12042324)               441168.27
3762786.02        0.14475  (12042324)
        441118.27   3762836.02        0.12799b (12043024)               441168.27
3762836.02        0.12143  (12042324)
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: P2GEN ***
INCLUDING SOURCE(S): PAREA4 ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440411.67	3762093.41	0.73219	(15122124)	440461.67	3762093.41	0.65082	(15122124)
440511.67	3762093.41	0.59958	(12031224)	440561.67	3762093.41	0.53364	(12031224)
440611.67	3762093.41	0.44228	(12031224)	440411.67	3762143.41	0.99778	(15122124)
440461.67	3762143.41	0.87381	(12031224)	440511.67	3762143.41	0.76932	(12031224)
440561.67	3762143.41	0.61989	(12031224)	440611.67	3762143.41	0.49229m	(12123124)
440406.61	3762008.86	0.48463b	(14090824)	440456.61	3762008.86	0.44910	(15122124)
440506.61	3762008.86	0.41006	(15122124)	440556.61	3762008.86	0.36613	(12031224)
440606.61	3762008.86	0.34495	(12031224)	440656.61	3762008.86	0.30554	(12031224)
440706.61	3762008.86	0.25904	(12031224)	440756.61	3762008.86	0.21301	(12031224)
440806.61	3762008.86	0.20175m	(12123124)	440856.61	3762008.86	0.19032m	(12123124)
440906.61	3762008.86	0.17732m	(12123124)	440956.61	3762008.86	0.16393m	(12123124)
441006.61	3762008.86	0.15065m	(12123124)	441056.61	3762008.86	0.13795m	(12123124)
441106.61	3762008.86	0.12779	(12121024)	441156.61	3762008.86	0.11882	(12121024)
440406.61	3762058.86	0.59024	(15122124)	440456.61	3762058.86	0.56805	(15122124)
440506.61	3762058.86	0.49193	(12031224)	440556.61			

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3762058.86        0.46868  (12031224)
        440606.61   3762058.86        0.41219  (12031224)                440656.61
3762058.86        0.34207  (12031224)
        440706.61   3762058.86        0.27555m (12123124)                440756.61
3762058.86        0.25778m (12123124)
        440806.61   3762058.86        0.23726m (12123124)                440856.61
3762058.86        0.21586m (12123124)
        440906.61   3762058.86        0.19493m (12123124)                440956.61
3762058.86        0.17694c (13110424)
        441006.61   3762058.86        0.16684c (13110424)                441056.61
3762058.86        0.15620c (13110424)
        441106.61   3762058.86        0.14579c (13110424)                441156.61
3762058.86        0.13583c (13110424)
        440191.38   3762138.44        1.98512  (12122424)                440241.38
3762138.44        1.26212  (12122424)
        440291.38   3762138.44        1.30155b (14090824)                440341.38
3762138.44        1.23411b (14090824)
        440191.38   3762188.44        3.13372  (12122424)                440241.38
3762188.44        2.25822  (12122424)
        440291.38   3762188.44        1.97456b (14090824)                440341.38
3762188.44        1.74126b (14090824)
        440191.38   3762238.44        5.03913  (12122424)                440241.38
3762238.44        4.26607  (12122424)
        440291.38   3762238.44        3.46435  (15122824)                440341.38
3762238.44        2.67051  (15122824)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***       04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       20:40:17

                                   PAGE  92
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                   INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                  L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                  L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                  L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                             ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                    **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)              X-COORD (M)
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Y-COORD (M)        CONC     (YYMMDDHH)
 - - -
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        439220.17   3763242.51        9.55766  (12020424)                439270.17
3763242.51       10.30819  (12020424)
        439320.17   3763242.51       10.93969  (12020424)                439370.17
3763242.51       11.30522  (12020424)
        439420.17   3763242.51       11.36110  (12020424)                439470.17
3763242.51       11.10204  (12020424)
        439520.17   3763242.51       10.40468  (12020424)                439570.17
3763242.51        9.35241  (12020424)
        439620.17   3763242.51        8.42483m (15011124)                439670.17
3763242.51        9.30435m (15011124)
        439720.17   3763242.51       10.09637m (15011124)                439770.17
3763242.51       10.52462m (15011124)
        439820.17   3763242.51       10.47707  (13112324)                439870.17
3763242.51       10.42830  (13112324)
        439170.17   3763292.51        9.05516  (12020424)                439220.17
3763292.51        9.82260  (12020424)
        439270.17   3763292.51       10.34965  (12020424)                439320.17
3763292.51       10.60750  (12020424)
        439370.17   3763292.51       10.54732  (12020424)                439420.17
3763292.51       10.29894  (12020424)
        439470.17   3763292.51        9.67058  (12020424)                439520.17
3763292.51        8.70700  (12020424)
        439570.17   3763292.51        7.65905m (15011124)                439620.17
3763292.51        8.39489m (15011124)
        439670.17   3763292.51        9.02987m (15011124)                439720.17
3763292.51        9.56646m (15011124)
        439770.17   3763292.51        9.80148m (15011124)                439820.17
3763292.51        9.53901  (13112324)
        439870.17   3763292.51        9.40599  (13112324)                439170.17
3763342.51        9.20576  (12020424)
        439220.17   3763342.51        9.71122  (12020424)                439270.17
3763342.51        9.89009  (12020424)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***        20:40:17

                                    PAGE  93
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP:  ALL      ***
                                    INCLUDING SOURCE(S):     L0013572    , L0013573
, L0013574    , L0013575    , L0013576    ,
                   L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                   L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                   L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,
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*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439320.17	3763342.51	9.86499	(12020424)	439370.17	3763342.51	9.52885	(12020424)
439420.17	3763342.51	8.97751	(12020424)	439470.17	3763342.51	8.13568	(12020424)
439520.17	3763342.51	7.06303	(12020424)	439570.17	3763342.51	7.63461m	(15011124)
439620.17	3763342.51	8.17606m	(15011124)	439670.17	3763342.51	8.66872m	(15011124)
439720.17	3763342.51	8.96201m	(15011124)	439770.17	3763342.51	8.96968m	(15011124)
439820.17	3763342.51	8.68208	(13112324)	439870.17	3763342.51	8.49526	(13112324)
439170.17	3763392.51	9.09887	(12020424)	439220.17	3763392.51	9.31209	(12020424)
439270.17	3763392.51	9.21898	(12020424)	439320.17	3763392.51	8.95834	(12020424)
439370.17	3763392.51	8.39758	(12020424)	439420.17	3763392.51	7.62517	(12020424)
439470.17	3763392.51	6.64771	(12020424)	439520.17	3763392.51	6.97465m	(15011124)
439570.17	3763392.51	7.50336m	(15011124)	439620.17	3763392.51	7.91500m	(15011124)
439670.17	3763392.51	8.27781m	(15011124)	439720.17	3763392.51	8.31984m	(15011124)
439770.17	3763392.51	8.08310m	(15011124)	439820.17	3763392.51	7.92257	(13112324)
439870.17	3763392.51	7.70043	(13112324)	439170.17	3763442.51	8.73783	(12020424)
439220.17	3763442.51	8.68937	(12020424)	439270.17	3763442.51	8.36752	(12020424)
439320.17	3763442.51	7.86922	(12020424)	439370.17	3763442.51	7.16838	(12020424)
439420.17	3763442.51	6.30298	(12020424)	439470.17	3763442.51	6.39143m	(15011124)
439520.17	3763442.51	6.86865m	(15011124)	439570.17	3763442.51	7.31886m	(15011124)
439620.17	3763442.51	7.62594m	(15011124)	439670.17	3763442.51	7.80727m	(15011124)
439720.17	3763442.51	7.70461m	(15011124)	439770.17	3763442.51	7.37420	(13112324)
439820.17	3763442.51	7.24366	(13112324)	439870.17			

3763442.51   7.00557 (13112324)
        439203.20   3762911.16   8.26591 (12011324)   439253.20
3762911.16   8.95408 (12011324)
        439303.20   3762911.16   9.66246 (12011324)   439353.20
3762911.16   10.37866 (12011324)
        439403.20   3762911.16   11.05820 (12011324)   439453.20
3762911.16   11.67380 (12011324)
        439503.20   3762911.16   12.19208 (12011324)   439553.20
3762911.16   13.72088 (12020424)
        439203.20   3762961.16   8.30839 (12011324)   439253.20
3762961.16   8.90459 (12011324)
        439303.20   3762961.16   9.58597 (12011324)   439353.20
3762961.16   9.97715 (12011324)
        439403.20   3762961.16   10.35030 (12011324)   439453.20
3762961.16   11.05593 (12020424)
        439503.20   3762961.16   12.46007 (12020424)   439553.20
3762961.16   13.97753 (12020424)
        439203.20   3763011.16   8.70559 (12011324)   439253.20
3763011.16   9.27196 (12011324)
        439303.20   3763011.16   9.84016 (12011324)   439353.20
3763011.16   10.19856 (12011324)
        439403.20   3763011.16   10.26845 (12020424)   439453.20
3763011.16   11.72725 (12020424)
        439503.20   3763011.16   12.74603 (12020424)   439553.20
3763011.16   14.26317 (12020424)
        439203.20   3763061.16   8.79994 (12011324)   439253.20
3763061.16   9.49697 (12011324)
        439303.20   3763061.16   9.63955 (12011324)   439353.20
3763061.16   10.68422 (12020424)
        439403.20   3763061.16   11.96892 (12020424)   439453.20
3763061.16   13.08415 (12020424)
        439503.20   3763061.16   13.70893 (12020424)   439553.20
3763061.16   14.85717 (12020424)
        439196.01   3762392.48   7.36279 (16020824)   439246.01
3762392.48   7.97808 (16020824)
        439296.01   3762392.48   8.67610 (16020824)   439346.01
3762392.48   9.47496 (16020824)
        439396.01   3762392.48   10.39439 (16020824)   439446.01
3762392.48   11.45637 (16020824)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                    INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,

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                L0013577    , L0013578    , L0013579    , L0013580    , L0013581
, L0013582    , L0013583    , L0013584    ,
                L0013585    , L0013586    , L0013587    , L0013588    , L0013589
, L0013590    , L0013591    , L0013592    ,
                L0013593    , L0013594    , L0013595    , L0013596    , L0013597
, L0013598    , L0013599    ,  . . .      ,

                                          *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                       ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M)  Y-COORD (M)        CONC     (YYMMDDHH)             X-COORD (M)
Y-COORD (M)        CONC     (YYMMDDHH)
 - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - -
        439496.01   3762392.48       12.71359  (16020824)               439546.01
3762392.48       14.21138  (16020824)
        439196.01   3762442.48        7.25718  (12122024)               439246.01
3762442.48        7.93139  (12122024)
        439296.01   3762442.48        8.71291  (12122024)               439346.01
3762442.48        9.61374  (12122024)
        439396.01   3762442.48       10.66727  (12122024)               439446.01
3762442.48       11.90968  (12122024)
        439496.01   3762442.48       13.38386  (12122024)               439546.01
3762442.48       15.15423  (12122024)
        439196.01   3762492.48        8.07667  (12122024)               439246.01
3762492.48        8.84467  (12122024)
        439296.01   3762492.48        9.73502  (12122024)               439346.01
3762492.48       10.76706  (12122024)
        439396.01   3762492.48       11.96679  (12122024)               439446.01
3762492.48       13.37562  (12122024)
        439496.01   3762492.48       15.05501  (12122024)               439546.01
3762492.48       17.05517  (12122024)
        439196.01   3762542.48        8.82908  (12122024)               439246.01
3762542.48        9.66324  (12122024)
        439296.01   3762542.48       10.62479  (12122024)               439346.01
3762542.48       11.72815  (12122024)
        439396.01   3762542.48       13.00897  (12122024)               439446.01
3762542.48       14.49331  (12122024)
        439496.01   3762542.48       16.23513  (12122024)               439546.01
3762542.48       18.26692  (12122024)
        439196.01   3762592.48        9.40810  (12122024)               439246.01
3762592.48       10.26831  (12122024)
        439296.01   3762592.48       11.23974  (12122024)               439346.01
3762592.48       12.33877  (12122024)
        439396.01   3762592.48       13.58916  (12122024)               439446.01
3762592.48       15.01490  (12122024)
        439496.01   3762592.48       16.64257  (12122024)               439546.01
3762592.48       18.48384  (12122024)
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        439196.01   3762642.48        9.73458  (12122024)                439246.01
3762642.48       10.55829  (12122024)
        439296.01   3762642.48       11.47120  (12122024)                439346.01
3762642.48       12.48041  (12122024)
        439396.01   3762642.48       13.60500  (12122024)                439446.01
3762642.48       14.84482  (12122024)
        439496.01   3762642.48       16.20485  (12122024)                439546.01
3762642.48       17.67948  (12122024)
        439196.01   3762692.48        9.77233  (12122024)                439246.01
3762692.48       10.50759  (12122024)
        439296.01   3762692.48       11.30483  (12122024)                439346.01
3762692.48       12.16339  (12122024)
        439396.01   3762692.48       13.07976  (12122024)                439446.01
3762692.48       14.04917  (12122024)
        439496.01   3762692.48       15.05746  (12122024)                439546.01
3762692.48       16.09012  (12122024)
        439196.01   3762742.48        9.52979  (12122024)                439246.01
3762742.48       10.14154  (12122024)
        439296.01   3762742.48       10.78113  (12122024)                439346.01
3762742.48       11.44521  (12122024)
        439396.01   3762742.48       12.12180  (12122024)                439446.01
3762742.48       12.79717  (12122024)
        439496.01   3762742.48       13.44697  (12122024)                439546.01
3762742.48       15.08890  (12011324)
        439196.01   3762792.48        9.04943  (12122024)                439246.01
3762792.48        9.52162  (12122024)
        439296.01   3762792.48        9.98836  (12122024)                439346.01
3762792.48       10.44859  (12122024)
        439396.01   3762792.48       11.12687  (12011324)                439446.01
3762792.48       12.35560  (12011324)
        439496.01   3762792.48       13.65867  (12011324)                439546.01
3762792.48       15.01644  (12011324)
        439196.01   3762842.48        8.39338  (12122024)                439246.01
3762842.48        8.72336  (12122024)
        439296.01   3762842.48        9.41695  (12011324)                439346.01
3762842.48       10.34715  (12011324)
        439396.01   3762842.48       11.32803  (12011324)                439446.01
3762842.48       12.34012  (12011324)
        439496.01   3762842.48       13.34018  (12011324)                439546.01
3762842.48       14.29003  (12011324)
        439573.31   3762470.54       17.47631  (12122024)                439623.31
3762470.54       20.08021  (12122024)
        439673.31   3762470.54       23.28759  (12122024)                439723.31
3762470.54       27.29188  (12122024)
        439773.31   3762470.54       32.38327  (12122024)                439823.31
3762470.54       38.94441  (12122024)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                          ***         04/05/23
 *** AERMET - VERSION  16216 ***   ***
                          ***        20:40:17
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*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***

INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 , L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 , L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 , L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
439873.31	3762470.54	47.61622	(12122024)	439573.31	3762520.54	19.11294	(12122024)
439623.31	3762520.54	21.80634	(12122024)	439673.31	3762520.54	25.05669	(12122024)
439723.31	3762520.54	28.99692	(12122024)	439773.31	3762520.54	33.79671	(12122024)
439823.31	3762520.54	39.65693	(12122024)	439873.31	3762520.54	46.91260	(12122024)
439573.31	3762570.54	19.70737	(12122024)	439623.31	3762570.54	22.15091	(12122024)
439673.31	3762570.54	24.97007	(12122024)	439723.31	3762570.54	28.20723	(12122024)
439773.31	3762570.54	31.89840	(12122024)	439823.31	3762570.54	36.04940	(12122024)
439873.31	3762570.54	40.60333	(12122024)	439573.31	3762620.54	19.12021	(12122024)
439623.31	3762620.54	21.03447	(12122024)	439673.31	3762620.54	23.10693	(12122024)
439723.31	3762620.54	25.30670	(12122024)	439773.31	3762620.54	27.58046	(12122024)
439823.31	3762620.54	31.82930	(12011324)	439873.31	3762620.54	37.35541	(12011324)
439573.31	3762670.54	17.55420	(12122024)	439623.31	3762670.54	18.82565	(12122024)
439673.31	3762670.54	20.26177	(12011324)	439723.31	3762670.54	23.33884	(12011324)
439773.31	3762670.54	26.68519	(12011324)	439823.31			

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3762670.54       30.12631  (12011324)
        439873.31   3762670.54       34.00356  (12020424)                439152.35
3761448.92        5.85726  (16122724)
        439202.35   3761448.92        5.88787  (16122724)                439252.35
3761448.92        5.97557  (15031324)
        439302.35   3761448.92        6.39047  (15031324)                439352.35
3761448.92        6.76731  (15031324)
        439402.35   3761448.92        7.08328  (15031324)                439452.35
3761448.92        7.31421  (15031324)
        439502.35   3761448.92        7.46252  (15031324)                439552.35
3761448.92        7.47588  (15031324)
        439152.35   3761498.92        6.20693  (16122724)                439202.35
3761498.92        6.34395  (16122724)
        439252.35   3761498.92        6.42712  (16122724)                439302.35
3761498.92        6.49875  (15031324)
        439352.35   3761498.92        6.95972  (15031324)                439402.35
3761498.92        7.37698  (15031324)
        439452.35   3761498.92        7.72132  (15031324)                439502.35
3761498.92        8.00012  (15031324)
        439552.35   3761498.92        8.14016  (15031324)                439152.35
3761548.92        6.49463  (16122724)
        439202.35   3761548.92        6.72159  (16122724)                439252.35
3761548.92        6.90038  (16122724)
        439302.35   3761548.92        6.97493  (16122724)                439352.35
3761548.92        7.03796  (15031324)
        439402.35   3761548.92        7.58091  (15031324)                439452.35
3761548.92        8.06719  (15031324)
        439502.35   3761548.92        8.47315  (15031324)                439552.35
3761548.92        8.77384  (15031324)
        439152.35   3761598.92        6.71230  (16122724)                439202.35
3761598.92        7.02081  (16122724)
        439252.35   3761598.92        7.30303  (16122724)                439302.35
3761598.92        7.51355  (16122724)
        439352.35   3761598.92        7.61488  (16122724)                439402.35
3761598.92        7.70487  (15031324)
        439452.35   3761598.92        8.34050  (15031324)                439502.35
3761598.92        8.89312  (15031324)
        439552.35   3761598.92        9.37739  (15031324)                439152.35
3761648.92        6.85408  (16122724)
        439202.35   3761648.92        7.25104  (16122724)                439252.35
3761648.92        7.63857  (16122724)
        439302.35   3761648.92        7.97986  (16122724)                439352.35
3761648.92        8.23661  (16122724)
        439402.35   3761648.92        8.41055  (16122724)                439452.35
3761648.92        8.49572  (15031324)
        439502.35   3761648.92        9.24175  (15031324)                439552.35
3761648.92        9.91558  (15031324)
        439152.35   3761698.92        7.17246  (14122624)                439202.35
3761698.92        7.39528  (16122724)
        439252.35   3761698.92        7.85864  (16122724)                439302.35
3761698.92        8.32515  (16122724)
```

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                  INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   , . . .   ,

                                                *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                      ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 -
- -
        439452.35   3761698.92   9.31104 (16122724)   439502.35
3761698.92   9.42637 (15031324)
        439552.35   3761698.92   10.31779 (15031324)   439152.35
3761748.92   7.58792 (14122624)
        439202.35   3761748.92   7.88507 (14122624)   439252.35
3761748.92   8.11611 (14122624)
        439302.35   3761748.92   8.57255 (16122724)   439352.35
3761748.92   9.12940 (16122724)
        439402.35   3761748.92   9.65248 (16122724)   439452.35
3761748.92   10.07607 (16122724)
        439502.35   3761748.92   10.36462 (16122724)   439552.35
3761748.92   10.52688 (16122724)
        439152.35   3761798.92   7.88814 (14122624)   439202.35
3761798.92   8.31511 (14122624)
        439252.35   3761798.92   8.69805 (14122624)   439302.35
3761798.92   9.07818 (14122624)
        439352.35   3761798.92   9.39508 (16122724)   439402.35
3761798.92   10.06409 (16122724)
        439452.35   3761798.92   10.72821 (16122724)   439502.35
3761798.92   11.24146 (16122724)

```
        439552.35   3761798.92       11.69924  (16122724)              439152.35
3761848.92        8.05010  (14122624)
        439202.35   3761848.92        8.58497  (14122624)              439252.35
3761848.92        9.09612  (14122624)
        439302.35   3761848.92        9.62448  (14122624)              439352.35
3761848.92       10.08471  (14122624)
        439402.35   3761848.92       10.56696  (14122624)              439452.35
3761848.92       11.19354  (16122724)
        439502.35   3761848.92       11.94440  (16122724)              439552.35
3761848.92       12.71687  (16122724)
        439152.35   3761898.92        8.06434  (14122624)              439202.35
3761898.92        8.68414  (14122624)
        439252.35   3761898.92        9.31437  (14122624)              439302.35
3761898.92       10.02600  (14122624)
        439352.35   3761898.92       10.69704  (14122624)              439402.35
3761898.92       11.35473  (14122624)
        439452.35   3761898.92       12.02643  (14122624)              439502.35
3761898.92       12.57376  (14122624)
        439552.35   3761898.92       13.58840  (16122724)              439152.35
3761948.92        7.91071  (14122624)
        439202.35   3761948.92        8.59279  (14122624)              439252.35
3761948.92        9.31353  (14122624)
        439302.35   3761948.92       10.16381  (14122624)              439352.35
3761948.92       11.02698  (14122624)
        439402.35   3761948.92       11.89020  (14122624)              439452.35
3761948.92       12.84367  (14122624)
        439502.35   3761948.92       13.74966  (14122624)              439552.35
3761948.92       14.58188  (14122624)
        439152.35   3761998.92        7.63934  (14042924)              439202.35
3761998.92        8.31556  (14122624)
        439252.35   3761998.92        9.09316  (14122624)              439302.35
3761998.92       10.03533  (14122624)
        439352.35   3761998.92       11.05194  (14122624)              439402.35
3761998.92       12.08791  (14122624)
        439452.35   3761998.92       13.25068  (14122624)              439502.35
3761998.92       14.46793  (14122624)
        439552.35   3761998.92       15.72528  (14122624)              439152.35
3762048.92        7.65566  (14042924)
        439202.35   3762048.92        8.23121  (14042924)              439252.35
3762048.92        8.85165  (14042924)
        439302.35   3762048.92        9.68421  (14122624)              439352.35
3762048.92       10.74714  (14122624)
        439402.35   3762048.92       11.92510  (14122624)              439452.35
3762048.92       13.27357  (14122624)
        439502.35   3762048.92       14.75881  (14122624)              439552.35
3762048.92       16.37066  (14122624)
        439616.61   3761420.65        6.88199  (15031324)              439666.61
3761420.65        6.98263  (13010224)
        439716.61   3761420.65        6.91222  (13010224)              439766.61
3761420.65        7.17756  (16121624)
        439816.61   3761420.65        7.37320  (16121624)              439866.61
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3761420.65   7.40352 (13121424)
        439616.61   3761470.65   7.64563 (15031324)   439666.61
3761470.65   7.46443 (13010224)
        439716.61   3761470.65   7.54458 (13010224)   439766.61
3761470.65   7.58117 (15010624)
        439816.61   3761470.65   7.89257 (16121624)   439866.61
3761470.65   8.00298 (16121624)
        439616.61   3761520.65   8.45225 (15031324)   439666.61
3761520.65   8.30838 (15031324)

 *** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

                                *** THE   1ST HIGHEST 24-HR AVERAGE CONCENTRATION
VALUES FOR SOURCE GROUP: ALL   ***
                                   INCLUDING SOURCE(S):   L0013572   , L0013573
, L0013574   , L0013575   , L0013576   ,
                  L0013577   , L0013578   , L0013579   , L0013580   , L0013581
, L0013582   , L0013583   , L0013584   ,
                  L0013585   , L0013586   , L0013587   , L0013588   , L0013589
, L0013590   , L0013591   , L0013592   ,
                  L0013593   , L0013594   , L0013595   , L0013596   , L0013597
, L0013598   , L0013599   , . . .   ,

                                              *** DISCRETE CARTESIAN RECEPTOR POINTS
***

                                         ** CONC OF PM_2.5   IN MICROGRAMS/M**3
                  **

      X-COORD (M) Y-COORD (M)   CONC   (YYMMDDHH)   X-COORD (M)
Y-COORD (M)   CONC   (YYMMDDHH)
 - - -

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3762893.83       21.45914  (13102424)
        440651.14   3762893.83       23.57993  (16030624)                440701.14
3762893.83       24.24688  (16030624)
        440751.14   3762893.83       22.95059  (16030624)                440801.14
3762893.83       20.84837  (16030624)
        440851.14   3762893.83       19.01517  (12120224)                440451.14
3762943.83       14.95607  (14013024)
        440501.14   3762943.83       15.23047  (15032224)                440551.14
3762943.83       16.74264  (16082624)
        440601.14   3762943.83       18.31649  (16082624)                440651.14
3762943.83       20.27711  (13102424)
        440701.14   3762943.83       21.35639  (13102424)                440751.14
3762943.83       20.93226  (16030624)
        440801.14   3762943.83       20.32692  (16030624)                440851.14
3762943.83       18.69531  (16030624)
        441116.67   3763135.31       11.84163  (12120224)                441166.67
3763135.31       11.95663  (12120224)
        441116.67   3763185.31       10.91181  (13102424)                441166.67
3763185.31       10.61643  (12120224)
        441116.67   3763235.31       11.14742  (13102424)                441166.67
3763235.31        9.98641  (13102424)
        441116.67   3763285.31       11.31625  (13102424)                441166.67
3763285.31       10.27234  (13102424)
        441116.67   3763335.31       11.18361  (13102424)                441166.67
3763335.31       10.42354  (13102424)
        441116.67   3763385.31       10.80534  (13102424)                441166.67
3763385.31       10.38295  (13102424)
        441116.67   3763435.31       10.27231  (13102424)                441166.67
3763435.31       10.07801  (13102424)
        440433.43   3762815.13       21.71075  (16101624)                440483.43
3762815.13       22.45880m (16031424)
        440533.43   3762815.13       25.03591  (13021924)                440583.43
3762815.13       27.56828  (16030624)
        440633.43   3762815.13       27.78704  (16030624)                440683.43
3762815.13       26.25688  (16030624)
        440733.43   3762815.13       24.43419m (16031424)                440783.43
3762815.13       23.18356m (16031424)
        440833.43   3762815.13       23.70009  (14032624)                440883.43
3762815.13       23.20706  (14032624)
        440933.43   3762815.13       21.60984  (14032624)                440983.43
3762815.13       20.07556  (14032624)
        440433.43   3762865.13       18.66727  (16101624)                440483.43
3762865.13       18.92220m (16031424)
        440533.43   3762865.13       19.93334m (16031424)                440583.43
3762865.13       22.52026  (16030624)
        440633.43   3762865.13       24.88827  (16030624)                440683.43
3762865.13       25.10057  (16030624)
        440733.43   3762865.13       23.86824  (16030624)                440783.43
3762865.13       21.31174  (16030624)
        440833.43   3762865.13       20.21636m (16031424)                440883.43
3762865.13       19.66530  (14032624)
```

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** THE 1ST HIGHEST 24-HR AVERAGE CONCENTRATION VALUES FOR SOURCE GROUP: ALL ***
INCLUDING SOURCE(S): L0013572 , L0013573 , L0013574 , L0013575 , L0013576 ,
L0013577 , L0013578 , L0013579 , L0013580 , L0013581 , L0013582 , L0013583 , L0013584 ,
L0013585 , L0013586 , L0013587 , L0013588 , L0013589 , L0013590 , L0013591 , L0013592 ,
L0013593 , L0013594 , L0013595 , L0013596 , L0013597 , L0013598 , L0013599 , . . . ,

*** DISCRETE CARTESIAN RECEPTOR POINTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)	X-COORD (M)	Y-COORD (M)	CONC	(YYMMDDHH)
440461.67	3762143.41	51.58866	(14110524)	440511.67	3762143.41	40.60812	(14110424)
440561.67	3762143.41	32.47881	(14110424)	440611.67	3762143.41	29.35039	(14091924)
440406.61	3762008.86	38.58170	(12010924)	440456.61	3762008.86	33.92538	(14110524)

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        440506.61   3762008.86       31.48349  (14110524)                440556.61
3762008.86       26.77312  (14110524)
        440606.61   3762008.86       21.63537  (14110524)                440656.61
3762008.86       18.07556  (14110424)
        440706.61   3762008.86       15.73320  (13011624)                440756.61
3762008.86       15.34611  (15013124)
        440806.61   3762008.86       14.76332  (14091924)                440856.61
3762008.86       15.05335  (14091924)
        440906.61   3762008.86       15.11953b (14072524)                440956.61
3762008.86       14.79802b (14072524)
        441006.61   3762008.86       14.24601b (14072524)                441056.61
3762008.86       13.50686b (14072524)
        441106.61   3762008.86       12.71865b (14072524)                441156.61
3762008.86       11.90197b (14072524)
        440406.61   3762058.86       45.60522  (12010924)                440456.61
3762058.86       40.80298  (14110524)
        440506.61   3762058.86       35.23645  (14110524)                440556.61
3762058.86       28.20843  (14110524)
        440606.61   3762058.86       23.15085  (14110424)                440656.61
3762058.86       19.57157  (15013124)
        440706.61   3762058.86       18.90005  (15013124)                440756.61
3762058.86       18.73871  (14091924)
        440806.61   3762058.86       18.69306b (14072524)                440856.61
3762058.86       18.36077b (14072524)
        440906.61   3762058.86       17.66725b (14072524)                440956.61
3762058.86       16.69016b (14072524)
        441006.61   3762058.86       15.58475b (14072524)                441056.61
3762058.86       14.44583b (14072524)
        441106.61   3762058.86       13.32499b (14072524)                441156.61
3762058.86       12.25996b (14072524)
        440191.38   3762138.44       67.86924m (13010324)                440241.38
3762138.44       72.96532  (16021524)
        440291.38   3762138.44       77.19668c (14012124)                440341.38
3762138.44       74.98441  (12010924)
        440191.38   3762188.44       91.66542  (14120224)                440241.38
3762188.44      100.48912m (13010324)
        440291.38   3762188.44      108.91068c (14012124)                440341.38
3762188.44      102.19361  (12010924)
        440191.38   3762238.44      142.38351  (14120224)                440241.38
3762238.44      159.09441m (13010324)
        440291.38   3762238.44      171.53937  (12010924)                440341.38
3762238.44      141.19869  (12010924)
 *** AERMOD - VERSION 21112  ***   *** Ontario Euclid Phase 2 Ops PM2.5
                         ***        04/05/23
 *** AERMET - VERSION  16216 ***   ***
                         ***       20:40:17

                                   PAGE  99
 *** MODELOPTs:    RegDFAULT  CONC  ELEV  URBAN  ADJ_U*

                                        *** THE SUMMARY OF MAXIMUM PERIOD ( 43848
```

HRS) RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

GROUP ID	NETWORK	AVERAGE CONC	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF TYPE	GRID-ID
P2ONSITE	1ST HIGHEST VALUE IS	33.06517 AT	(440291.38, 3762238.44, 213.76, 213.76, 0.00)	DC	
	2ND HIGHEST VALUE IS	32.62897 AT	(440241.38, 3762238.44, 212.37, 212.37, 0.00)	DC	
	3RD HIGHEST VALUE IS	27.92428 AT	(440341.38, 3762238.44, 213.60, 213.60, 0.00)	DC	
	4TH HIGHEST VALUE IS	26.90355 AT	(440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	
	5TH HIGHEST VALUE IS	19.41626 AT	(440291.38, 3762188.44, 213.06, 213.06, 0.00)	DC	
	6TH HIGHEST VALUE IS	19.15800 AT	(440241.38, 3762188.44, 211.78, 211.78, 0.00)	DC	
	7TH HIGHEST VALUE IS	17.59690 AT	(440341.38, 3762188.44, 213.12, 213.12, 0.00)	DC	
	8TH HIGHEST VALUE IS	17.30245 AT	(440191.38, 3762188.44, 212.58, 212.58, 0.00)	DC	
	9TH HIGHEST VALUE IS	12.97724 AT	(440291.38, 3762138.44, 212.00, 212.00, 0.00)	DC	
	10TH HIGHEST VALUE IS	12.93805 AT	(440241.38, 3762138.44, 211.71, 211.71, 0.00)	DC	
P2IDLE	1ST HIGHEST VALUE IS	26.10954 AT	(440241.38, 3762238.44, 212.37, 212.37, 0.00)	DC	
	2ND HIGHEST VALUE IS	25.81470 AT	(440291.38, 3762238.44, 213.76, 213.76, 0.00)	DC	
	3RD HIGHEST VALUE IS	22.91794 AT	(440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC	
	4TH HIGHEST VALUE IS	21.85662 AT	(440341.38, 3762238.44, 213.60, 213.60, 0.00)	DC	
	5TH HIGHEST VALUE IS	16.24069 AT	(440241.38, 3762188.44, 211.78, 211.78, 0.00)	DC	
	6TH HIGHEST VALUE IS	16.16158 AT	(440291.38, 3762188.44, 213.06, 213.06, 0.00)	DC	
	7TH HIGHEST VALUE IS	15.14603 AT	(440191.38, 3762188.44, 212.58, 212.58, 0.00)	DC	
	8TH HIGHEST VALUE IS	14.57909 AT	(440341.38, 3762188.44, 213.12, 213.12, 0.00)	DC	
	9TH HIGHEST VALUE IS	11.32316 AT	(440241.38, 3762138.44, 211.71,		

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  211.71,    0.00)  DC
        10TH HIGHEST VALUE IS      11.20436 AT (  440291.38,  3762138.44,   212.00,
  212.00,    0.00)  DC

P2GEN     1ST HIGHEST VALUE IS       0.03244 AT (  440341.38,  3762238.44,   213.60,
  213.60,    0.00)  DC
          2ND HIGHEST VALUE IS       0.03035 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC
          3RD HIGHEST VALUE IS       0.02728 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
          4TH HIGHEST VALUE IS       0.02261 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          5TH HIGHEST VALUE IS       0.01482 AT (  440341.38,  3762188.44,   213.12,
  213.12,    0.00)  DC
          6TH HIGHEST VALUE IS       0.01438 AT (  440291.38,  3762188.44,   213.06,
  213.06,    0.00)  DC
          7TH HIGHEST VALUE IS       0.01421 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
          8TH HIGHEST VALUE IS       0.01311 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
          9TH HIGHEST VALUE IS       0.01007 AT (  440511.67,  3762143.41,   212.45,
  212.45,    0.00)  DC
         10TH HIGHEST VALUE IS       0.00992 AT (  440561.67,  3762143.41,   212.23,
  212.23,    0.00)  DC

ALL       1ST HIGHEST VALUE IS      58.91022 AT (  440291.38,  3762238.44,   213.76,
  213.76,    0.00)  DC
          2ND HIGHEST VALUE IS      58.76580 AT (  440241.38,  3762238.44,   212.37,
  212.37,    0.00)  DC
          3RD HIGHEST VALUE IS      49.84410 AT (  440191.38,  3762238.44,   213.17,
  213.17,    0.00)  DC
          4TH HIGHEST VALUE IS      49.81335 AT (  440341.38,  3762238.44,   213.60,
  213.60,    0.00)  DC
          5TH HIGHEST VALUE IS      35.59221 AT (  440291.38,  3762188.44,   213.06,
  213.06,    0.00)  DC
          6TH HIGHEST VALUE IS      35.41290 AT (  440241.38,  3762188.44,   211.78,
  211.78,    0.00)  DC
          7TH HIGHEST VALUE IS      32.46159 AT (  440191.38,  3762188.44,   212.58,
  212.58,    0.00)  DC
          8TH HIGHEST VALUE IS      32.19081 AT (  440341.38,  3762188.44,   213.12,
  213.12,    0.00)  DC
          9TH HIGHEST VALUE IS      24.26973 AT (  440241.38,  3762138.44,   211.71,
  211.71,    0.00)  DC
         10TH HIGHEST VALUE IS      24.18992 AT (  440291.38,  3762138.44,   212.00,
  212.00,    0.00)  DC


 *** RECEPTOR TYPES:  GC = GRIDCART
                      GP = GRIDPOLR
                      DC = DISCCART
                      DP = DISCPOLR
```

*** THE SUMMARY OF HIGHEST 1-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3 **

GROUP ID	AVERAGE	CONC	DATE (YYMMDDHH)	NETWORK TYPE	RECEPTOR (XR, YR, ZELEV, ZHILL, ZFLAG)	OF GRID-ID
P2ONSITE	HIGH	1ST HIGH VALUE IS	242.22954	ON	16020317: AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC
P2IDLE	HIGH	1ST HIGH VALUE IS	229.49464	ON	14113016: AT (440241.38, 3762238.44, 212.37, 212.37, 0.00)	DC
P2GEN	HIGH	1ST HIGH VALUE IS	120.93907	ON	12122413: AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC
ALL	HIGH	1ST HIGH VALUE IS	470.56340	ON	16020317: AT (440191.38, 3762238.44, 213.17, 213.17, 0.00)	DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** THE SUMMARY OF HIGHEST 24-HR RESULTS ***

** CONC OF PM_2.5 IN MICROGRAMS/M**3
**

GROUP ID (XR, YR, ZELEV, ZHILL, ZFLAG)	AVERAGE CONC OF TYPE	NETWORK GRID-ID	DATE (YYMMDDHH)	RECEPTOR
P2ONSITE HIGH 1ST HIGH VALUE IS	91.14973	ON	12010924:	AT (440291.38, 3762238.44, 213.76, 213.76, 0.00) DC
P2IDLE HIGH 1ST HIGH VALUE IS	77.42658	ON	12010924:	AT (440291.38, 3762238.44, 213.76, 213.76, 0.00) DC
P2GEN HIGH 1ST HIGH VALUE IS	5.03913	ON	12122424:	AT (440191.38, 3762238.44, 213.17, 213.17, 0.00) DC
ALL HIGH 1ST HIGH VALUE IS	171.53937	ON	12010924:	AT (440291.38, 3762238.44, 213.76, 213.76, 0.00) DC

*** RECEPTOR TYPES: GC = GRIDCART
GP = GRIDPOLR
DC = DISCCART
DP = DISCPOLR

*** MODELOPTs: RegDFAULT CONC ELEV URBAN ADJ_U*

*** Message Summary : AERMOD Model Execution ***

--------- Summary of Total Messages --------

A Total of 0 Fatal Error Message(s)
A Total of 2 Warning Message(s)
A Total of 1279 Informational Message(s)

A Total of 43848 Hours Were Processed

A Total of 917 Calm Hours Identified

A Total of 362 Missing Hours Identified (0.83 Percent)

******** FATAL ERROR MESSAGES ********

```
              ***  NONE  ***


   ********   WARNING MESSAGES   ********
ME W186     214       MEOPEN: THRESH_1MIN 1-min ASOS wind speed threshold used
    0.50
ME W187     214       MEOPEN: ADJ_U* Option for Stable Low Winds used in AERMET


   ************************************
   *** AERMOD Finishes Successfully ***
   ************************************
```

ONTARIO COMMUNITY CLIMATE ACTION PLAN -

GREENHOUSE GAS EMISSIONS SCREENING TABLES

CITY OF ONTARIO SOUTHERN CALIFORNIA

Ontario Community Climate Action Plan

Greenhouse Gas Emissions Screening Tables

March 2023

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Introduction

The 2022 Ontario Community Climate Action Plan (2022 CCAP), adopted unanimously by the City Council on August 16, 2022, is the strategic plan for how the City of Ontario (City) will reduce greenhouse gas (GHG) emissions and foster a sustainable community through 2050 and beyond. It is an update to Ontario's 2014 CCAP and accounts for recent statewide climate change legislation and targets, most notably Senate Bill (SB) 32, which provides statewide targets to reduce GHG emissions to 40 percent below 1990 levels by 2030. The 2022 CCAP is consistent with The Ontario Plan (TOP) 2050, as updated and approved by City Council on August 16, 2022, and with the California Environmental Quality Act (CEQA) Guidelines for Plans for the Reduction of Greenhouse Gas Emissions (California Code of Regulations Section 15183.5). This allows the 2022 CCAP to support and streamline environmental review of GHG emissions for future development projects in the city.

Reductions related to transportation, water, solid waste, offroad equipment, energy, and renewable energy sources all play a crucial part in gaining the level of efficiency needed within the new development across Ontario.

The purpose of this document, GHG Emissions Screening Tables, is to provide guidance on how to analyze project level GHG emissions and determine the significance of those emissions during the discretionary review of proposed development projects in Ontario. The analysis, methodology, and significance determination (thresholds) presented in the screening tables and guidance herein, are based on the 2022 CCAP. Results of the quantification analysis in the CCAP show that implementation of community-wide GHG reduction measures would result in emissions savings of up to 205,960 metric tons of carbon dioxide (CO_2) equivalent ($MTCO_2e$) (0.51 per capita $MTCO_2e$) in 2030 and 770,620 $MTCO_2e$ (1.09 $MTCO_2e$) in 2050.

Mitigation of GHG emissions impacts through the Development Review Process (DRP) provides one of the most substantial reduction strategies for reducing community-wide GHG emissions associated with new development. Development projects subject to discretionary review will have the option of preparing a project-specific technical analysis to quantify and mitigate GHG emissions or completing the performance review checklist (GHG Emissions Screening Table) to demonstrate compliance with performance standards.

The City's 2022 CCAP includes performance standards that will reduce GHG emissions from new development by 54,069 $MTCO_2e$ per year in 2030 and 302,803 $MTCO_2e$ in 2050 as compared to emissions levels in 2019, prior to the adoption of the 2022 CCAP. CEQA requires the assessment of environmental impacts for proposed projects including the impacts of GHG emissions. The DRP procedures for evaluating GHG impacts and determining significance under CEQA will be streamlined by utilizing the performance standard review checklist to mitigate project GHG emissions and by demonstrating compliance with the 2022 CCAP. The levels of GHG emissions reductions in the Screening Tables are consistent with the City's adopted targets in the 2022 CCAP.

The City can use the Screening Tables to review development projects to ensure that the specific reduction strategies in the 2022 CCAP are implemented as part of the CEQA process for

development projects. The Screening Tables provide a menu of options that ensures both implementation of the reduction strategies and flexibility on how development projects would implement the reduction strategies to achieve an overall reduction of emissions, consistent with the reduction targets of the 2022 CCAP.

California Environmental Quality Act

CEQA Mandates for Analysis of Impacts

CEQA requires that Lead Agencies inform decision-makers and the public regarding the following: potential significant environmental effects of proposed projects; feasible ways that environmental damage can be avoided or reduced through the use of feasible mitigation measures and/or project alternatives; and the reasons why the Lead Agency approved a project if significant environmental effects are involved (CEQA Guidelines § 15002). CEQA also requires Lead Agencies to evaluate potential environmental effects based upon the fullest extent possible scientific and factual data (CEQA Guidelines§ 15064[b]). A determination of whether or not a particular environmental impact would be significant shall be based on substantial evidence, which includes facts, reasonable assumptions predicated upon facts, and expert opinion supported by facts (CEQA Guidelines § 15064f[5]).

The recently amended CEQA Guidelines § 15064.4[a] [b] explicitly require Lead Agencies to evaluate GHG emissions during CEQA review of potential environmental impacts generated by a proposed project. To assist in this effort, two questions were added to Appendix G of the CEQA Guidelines:

- Would the project generate GHG emissions, either directly or indirectly, that may have a significant impact on the environment?
- Would the project conflict with an applicable plan, policy or regulation adopted for the purpose of reducing the emissions of GHGs?

Finally, under the "rule of reason," an Environmental Impact Report (EIR) is required to evaluate impacts to the extent that is reasonably feasible (CEQA Guidelines § 15151; San Francisco Ecology Center v. City and County of San Francisco [1975] 48 Cal.App.3rd 584). While CEQA does require Lead Agencies to make a good faith effort to disclose what they reasonably can do, CEQA does not demand what is not realistically possible (Residents at Hawks Stadium Committee v. Board of Trustees [1979] 89 Cal.App.3rd 274, 286).

Greenhouse Gas Impact Determination

Statewide or Regional Thresholds of Significance

There are currently no published statewide thresholds of significance for measuring the impact of GHG emissions generated by a proposed project. CEQA Guidelines § 15064.7(b) indicates "each public agency is encouraged to develop and publish thresholds of significance that the agency uses in the determination of the significance of environmental effects." Jurisdictions within the South Coast Air Quality Management District (AQMD) boundary can refer to the

AQMD's air quality thresholds in the absence of locally adopted thresholds and GHG mitigation plans. Ontario's 2022 CCAP addresses cumulative GHG emissions by establishing citywide emission reduction targets that reduce the cumulative GHG impacts to less than significant, provides a set of recommended GHG reduction measures that collectively achieve the emission targets, and provides an implementation plan to implement the reduction measures. This document provides guidance on how to address project level GHG emissions in CEQA analysis and determine the significance of project-generated GHG emissions.

Quantitative Analysis Relative to the Climate Action Plan

Methodology Overview

To address the State's requirement to reduce GHG emissions, the City adopted the 2022 CCAP with citywide GHG emission reduction targets of 40 percent below 1990 levels of emissions by 2030 and 80 percent below 1990 levels of emissions by 2050. Ontario's targets are consistent with State laws in effect at the time of the adoption, including SB 32, and ensure that the City is providing GHG reductions locally that will complement State and international efforts of stabilizing climate change.

Because the 2022 CCAP addresses GHG emissions reduction consistent with SB 32, and international efforts to address global climate change, and includes specific local requirements that would substantially lessen the cumulative problem, compliance with the 2022 CCAP would fulfill the description of mitigation found in CEQA Guidelines § 15130(a)(3) and § 15183.5.

GHG emissions have long-term, cumulative impacts on the climate, both locally and globally. Therefore, the focus of the analysis is on determining whether incremental contributions of GHGs present a considerable, cumulative contribution to climate change. The 2022 CCAP includes a set of GHG reduction measures designed to substantially lessen local cumulative impacts associated with GHG emissions as described in CEQA Guidelines § 15130(a)(3), in determining if a project's effects would result in significant impacts. The 2022 CCAP has the following components that fulfill cumulative mitigation for GHG emissions:

1. Provides a community-wide GHG emissions reduction target that would substantially lessen the cumulative impact.
2. Provides measures that new development projects shall follow in order to implement the 2022 CCAP, help achieve the City's reduction targets, and substantially lessen the cumulative impact of local GHG emissions.
3. Provides a set of GHG analyses that quantitatively demonstrate how the GHG reduction measures within the 2022 CCAP meet the citywide targets that substantially lessen the cumulative impact; and
4. Provides an implementation matrix to help track and monitor progress to ensure that the citywide emissions reduction targets are met.

The 2022 CCAP satisfies the first condition by adopting targets of reducing GHG emissions within the City by 40 percent below 1990 levels of emissions by 2030 and 80 percent below 1990

levels by 2050. The 2030 reduction target is compliant with SB 32 and provides a pathway to make substantial progress towards the State's goal to achieve carbon neutrality by 2045.

The 2022 CCAP satisfies the second condition through the Screening Tables. This document supplies the specific criteria that new development shall follow to ensure that the reduction measures associated with new development are implemented and the reduction targets are met.

The 2022 CCAP satisfies the third criterion by providing a set of community-wide GHG emissions inventories, forecasts, and quantification of GHG emissions savings resulting from implementation of the GHG reduction measures. The community-wide inventories provide existing conditions and demonstrate change in emissions over time between 2008, 2016, and 2019. Community-wide forecasts provide a snapshot of future GHG emissions levels in 2030 and 2050.

Finally, state reductions and quantification analyses demonstrate the impact of state and local actions, respectively, on community-wide emissions levels in 2030 and 2050, compared with business as usual (BAU) scenarios in the 2030 and 2050 emissions forecasts. These technical analyses in the 2022 CCAP provide quantitative evidence to demonstrate that the implementation of GHG reduction measures can achieve the citywide emission reduction targets. These community-wide GHG emission analyses are summarized in **Appendix A** of the 2022 CCAP.

The Development Plan Review (DPR)

The City encourages all new development to integrate the reduction measures of the 2022 CCAP into project design and operation. Projects subject to the City's DPR are required to demonstrate their consistency with the 2022 CCAP. **Appendix A** of this document contains a flow chart that diagrams this development review process. To determine if specific strategies from the 2022 CCAP are required and if the preparation of the Screening Table is needed, project applicants must answer the following question(s).

1. **Question 1: Is the proposed activity a discretionary project?**

   If yes, proceed with the Screening Tables.

   If no, proceed to the next question.

2. **Question 2: Does the proposed activity meet or exceed the project size thresholds?** **Table 1** contains a Land Use Development Table which identifies the maximum project size for new residential and new non-residential development that is exempt from the Screening Table requirements.

   If yes, proceed with the Screening Tables.

   If no, the project falls below the project size threshold, and no further action is required concerning GHG emissions in the development review process.

Table 1. Project Size Thresholds for Land Use Development 1

Project Type	Project Size Threshold for Screening Table
Single Family Residential (Single Family Detached)	60 units
Apartments/Condominiums/Townhouse	20 units
Retirement Community (Senior Housing Age 50 or older)	50 units
General Commercial/Retail/Office	20,000 square feet
Supermarket/Grocery/Discount Club	36,000 square feet
Restaurants (sit down)	8,200 square feet
Fast-Food Restaurants (Fast Food with or without /Drive Thru)	5,300 square feet
Gas Station	7,200 square feet
Logistics/Warehouse	45,000 square feet
Passive Park	200 acres
Active Park	60 acres

Options for Calculation of GHG Emissions

Analysis of development projects can either be done through emissions calculations, using a tool such as CalEEMod[1] or a similar tool following the guidance below, or by using the Screening Tables as described below. Projects that do not use the GHG Screening Tables to demonstrate consistency with the 2022 CCAP must follow the guidance in this document and demonstrate consistency with the City's GHG reduction targets and reduction strategies as adopted in the 2022 CCAP.

Total GHG emissions are the sum of emissions from both direct and indirect sources. Direct sources include mobile sources, such as construction equipment, motor vehicles, landscape equipment, and stationary sources, such as cooling and heating equipment. Indirect sources comprise electrical and potable water use, and the generation of solid waste and wastewater. The project team for the CCAP assessed separate GHG reductions for the years 2030 and 2050, and further separated GHG reductions for the Screening Tables for "existing" (constructed 2019 or before) and "new" (constructed in 2020 or after)" development. This is consistent with the recommendations outlined in *Golden Door Properties, LLC v. County of San Diego/Sierra Club, LLC v. County of San Diego (2018) 27 Cal.App.5th*.

Analysis of development projects not using the Screening Tables should use the emission factors provided by state and regional agencies and utility providers. Refer to the emission factors and data sources used for the 2022 CCAP quantification of GHG reduction strategies presented in **Table 2**, Emission Factors and Data Sources, Accounting for Statewide Actions. Quantification of emissions from electricity used for potable water treatment and transportation as well as wastewater transport and treatment can be found in the California Energy Commission (CEC) document titled Refining Estimates of Water-Related Energy Use in California (CEC 2006).

Analysis of development projects not using the Screening Tables should use one or both of the following GHG inventory guidelines:

1. The United States Community Protocol for Accounting and Reporting of Greenhouse Gas Emissions (U.S. Community Protocol), which was first developed in 2012 and updated in 2019. The California Governor's Office of Planning and Research encourages cities and counties in California to follow the U.S. Community Protocol for community-wide GHG emissions.
2. The Global Protocol for Community-Scale Greenhouse Gas Inventories (Global Protocol) was first developed in 2014 for preparing international community-scale GHG inventories. It contains additional guidance and resources to support a wider range of activities in other countries, including guidance on how to assess GHG emissions from sources that are not covered in the U.S. Community Protocol.

[1] https://www.caleemod.com/

Table 2. Emission Factors and Data Sources, Accounting for Statewide Actions

CC	Unit	2019	2030	2050	Source
SCE electricity	$MTCO_2e$/ kWh	0.000208	0.000149	0.000000	SCE
Natural gas	$MTCO_2e$/ therm	0.005272	0.005272	0.005272	US Community Protocol
On-road transportation (light and medium-duty vehicles)	$MTCO_2e$/ mile	0.000348	0.000277	0.000253	EMFAC 2021 v1.0.2, California Air Resources Board
On-road transportation (heavy duty vehicles)	$MTCO_2e$/ mile	0.001256	0.001070	0.000734	EMFAC 2021 v1.0.2, California Air Resources Board
On-road transportation (total)	$MTCO_2e$/ mile	0.000434	0.000353	0.000298	EMFAC 2021 v1.0.2, California Air Resources Board
Solid waste (municipal solid waste)	$MTCO_2e$/ ton	0.286062	0.234502	0.234488	CalRecycle
Solid waste (alternative daily cover)	$MTCO_2e$/ ton	0.247191	0.246418	-	CalRecycle

As noted above, the work prepared for the CCAP includes level of reductions from both existing and new development, and from residential and nonresidential development, to achieve the adopted targets. There are also separate targets for projects completed by 2030, and those completed between 2031 and 2050, consistent with the CCAP target years. Projects that do not use the Screening Tables will need to demonstrate that they will generate annual GHG emissions that do not exceed the following thresholds:

1. For residential development completed between 2020 and 2030, the project shall not produce GHG emissions greater than **5.85 $MTCO_2e$/dwelling unit**.
2. For residential development completed after 2030, the project shall not produce GHG emissions greater than **1.53 $MTCO_2e$/dwelling unit**.

3. For nonresidential developments of all types completed between 2020 and 2030, the project shall not produce GHG emissions greater than **8.84 MTCO$_2$e/2,500 square feet of conditioned space**.
4. For nonresidential developments of all types completed after 2030, the project shall not produce GHG emissions greater than **3.61 MTCO$_2$e/2,500 square feet of conditioned space**.

For projects that include both residential and nonresidential space, the residential and nonresidential components must be assessed separately against their respective applicable thresholds.

Accordingly, GHG emissions from residential space must be assessed separately from GHG emissions from nonresidential space. The residential thresholds assume that one dwelling unit is home to an average of 3.48 people by 2030, and 3.30 people by 2050. The nonresidential thresholds assume that 2,500 square feet of conditioned space employs an average of 2.31 people by 2030 and 2.83 people by 2050.

To demonstrate compliance the following information is to be provided: 1) quantitative analysis, including project-specific modeling; 2) table of all assumptions utilized and additional measures incorporated; and 3) narrative of CCAP compliance and associate measures.

Screening Tables

The purpose of the Screening Tables is to provide guidance in measuring the reduction of GHG emissions attributable to certain design and construction measures incorporated into development projects. The analysis, methodology, and significance determination (thresholds) are based upon the 2022 CCAP, which includes GHG emission inventories for 2008, 2016, and 2019; forecasts for years 2030 and 2050; emission targets for 2030 and 2050; and the strategies to reach the targets. **Appendix B** of this document sets forth the methodology for the development and application of the Screening Tables and uses the California Air Pollution Control Officers Association (CAPCOA) guidance on quantifying project-level GHG reductions (CAPCOA 2022).

Instructions for Residential, Commercial, or Industrial Projects

This document contains four Screening Tables designed for different development projects, listed below:

- **Table 3** is the Screening Table for multi-family development projects.
- **Table 4** is the Screening Table for single-family development projects.
- **Table 5** is the Screening Table for warehouse non-residential development projects.
- **Table 6** is the Screening Table for all other non-residential development projects, including commercial, office, medical, hotel, fitness, industrial, and retail development.

The Screening Tables assign points for each option incorporated into a project as mitigation or a project design feature (collectively referred to as "feature"). The point values correspond to the

minimum emissions reduction expected from each feature. The menu of features allows flexibility and options for how development projects can implement the GHG reduction measures. The point levels are based upon improvements compared to 2019 emission levels for new development projects. Projects that achieve at least 100 points per applicable Screening Table will be consistent with the reduction quantities consistent with the 2022 CCAP. Consistent with CEQA Guidelines, such projects would be determined to have a less than significant individual and cumulative impact for GHG emissions.

Instructions for Mixed-Use Projects

Mixed-use projects provide additional opportunities to reduce emissions by combining complementary land uses in a manner that can reduce vehicle trips. Mixed-use projects also have the potential to complement energy-efficient infrastructure in a way that reduces emissions. For mixed-use projects, all applicable Screening Tables shall be filled out. Measures can be used to satisfy the requirements of more than one Screening Table as appropriate to reflect the building's mix of uses, and the project must achieve 100 points for each use to comply with the 2022 CCAP.

Nothing in this guidance shall be construed as limiting the City's authority to adopt a statement of overriding considerations for projects that require the preparation of an EIR due to significant GHG impacts.

The following tables provide a menu of performance standards/options related to GHG mitigation measures and design features that can be used to demonstrate consistency with the reduction measures and GHG reduction quantities in the 2022 CCAP.

Table 3. Screening Table for Implementing GHG Performance Standards for Multi-family Residential Development 2030 (Circle Applicable Project Points, 100 points minimum)

Description	Feature	Project Points
Reduction Measure 1: Building Electrification		
Replacement of gas appliance with efficient electric appliance (select all that apply)	Electric space heater	6
	Electric water heater	8
	Electric stove	5
	Electric dryer	1
Additional electric appliance measures, if applicable (select all that apply)	Electric pool heater (if applicable)	1
	Electric spa heater (if applicable)	1
Lack of natural gas infrastructure	Project site does not have any natural gas infrastructure.	10
	Total for measure	*32*
Reduction Measure 2: Green Roofs		
Installation of a roof with a planted layer of vegetation over a waterproof surface for multi-family residential buildings	Medium Green Roof – Total vegetated area makes up 25% or more of combined multi-family residential unit area (in square feet).	3
	Total for measure	*3*
Reduction Measure 3: Urban Cooling		
On-site tree planting (select one option)[2]	1 tree per each required on-site vehicle parking space.	6
	2 trees per each required on-site vehicle parking space.	12
	3 trees per each required on-site vehicle parking space.	18
	Total for measure	*18*

[2] This strategy specifies the ratio of additional trees per required vehicle parking spaces. Based upon total on-site vehicle parking spaces required per the City of Ontario Development Code for the project, the Applicant will calculate the number of trees required to meet this measure and obtain points. The landscape plan will show onsite trees and the tree matrix shall identify all trees associated with the Urban Cooling Measure compliance. The City code requires trees onsite and within paved areas to reduce the associated heat build-up from development. The Landscape Planning Division will consider these trees in the calculation to be counted toward the Urban Cooling Measure.

Description	Feature	Project Points
Reduction Measure 4: Transit Oriented Communities (TOCs)		
New development is located in a transit-oriented community (TOC)	Development site is located within ½ mile radius of one or more of the following: a Bus Rapid Transit (BRT) stop, bus transit center, light rail station, the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods, and/or High-Quality Transit Corridor defined as a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.[3]	10
	Total for measure	*10*
Reduction Measure 5: Increase Transit Ridership		
Provision of free transit passes for onsite residents or tenants for a period of 5 years after completion of construction[4] (select one option)	One 50% discounted annual transit pass for every two parking spaces, or one per residential unit, whichever is greater.	2
	One 100% discounted (free) annual transit pass for every two parking spaces or one per residential unit, whichever is greater.	6
	One 100% discounted (free) annual transit pass per parking space or one per residential bedroom, whichever is greater.	12
	Total for measure	*12*
Reduction Measure 6: Vehicle Electrification[5]		
Installation of EV charging stations for resident vehicle parking spaces (select one option)	Installation of Level 2 EV or higher charging stations at a rate of 5-10% of required vehicle parking spaces.	10
	Installation of Level 2 EV or higher charging stations at a rate of 11-29% of required vehicle parking spaces.	20
	Installation of Level 2 EV or higher charging stations at a rate of 30% or more of required vehicle parking spaces.	30
	Total for measure	*30*

[3] A project shall be considered to be within one-half mile of a major transit stop or high-quality transit corridor if all parcels within the project have no more than 25 percent of their area farther than one-half mile from the stop or corridor and if not more than 10 percent of the residential units or 100 units, whichever is less, in the project are farther than one-half mile from the stop or corridor.

[4] Provision for annual transit passes to be incorporated into CC&R's/HOA bylaws, as appropriate.

[5] EV charging station levels are defined in the California Green Building Standards or CALGreen Code, accessed at https://www.dgs.ca.gov/BSC/CALGreen. Charging stations also refer to charging ports.

Description	Feature	Project Points
Reduction Measure 7: Active Transportation		
Installation or improvement of bicycle facilities (select all that apply)	Bicycle parking facilities with 1:1 ratio of bicycle parking to guest vehicle parking space.	3
	Construct or improve a single bicycle lane facility (only Class I, II, or IV) that 1) connects to a larger existing bikeway network or 2) closes an existing bikeway network gap that is at least 0.5 miles long.	6
Installation or improvement of pedestrian facilities (select one option)	Two or three pedestrian infrastructure improvements to street design on private streets, including, but not limited to curb extensions, raised crosswalks, speed humps/bumps, street tree plantings in parkways or street medians, and elevated pavement markings.	3
	Four or more pedestrian infrastructure improvements to street design, including, but not limited to curb extensions, raised crosswalks, speed humps/bumps, street tree plantings in parkways or street medians, and elevated pavement markings.	6
	Total for measure	*15*
Reduction Measure 8: Parking Policy		
Require that some or all of resident vehicle parking spaces be purchased at an additional cost. This does not include guest vehicle parking spaces (select one option) [6]	Unbundle, or separate, half (50%) of parking costs of a residential project from property costs, requiring those who wish to purchase an additional parking space to do so at an additional cost.	1
	Unbundle, or separate, 100% of residential project's parking costs from property costs, requiring those who wish to purchase parking spaces to do so at an additional cost.	2
	Total for measure	*2*
Reduction Measure 9: Electric construction equipment[7]		
Use zero emission or electric construction equipment (select one option)	One-third (33%) of construction equipment used for construction (during building phase, not including grading phase), measured by number of hours of operation, is zero emission equipment.	4

[6] Provision for unbundled parking to be incorporated into CC&R's bylaws or separate parking agreement, as appropriate.

[7] Electric construction equipment includes electric compact excavators, electric motors, electric generators, and mobile charging equipment.

Description	Feature	Project Points
	Half (50%) of construction equipment used for construction (during the building phase, not including the grading phase), measured by the number of hours of operation, is zero emission equipment.	8
	Two-thirds (66%) or more of construction equipment used for construction (during the building phase, not including the grading phase), measured by number of hours of operation, is zero emission equipment.	12
	Total for measure	*12*
Reduction Measure 10: Waste diversion		
Design and plan multi-family housing developments to include onsite areas for municipal compost/green waste and recycling bins/containers	Site design allocates sufficient space for storage and collection of green waste, organic waste, and recyclables.	33
	Total for measure	*33*
Reduction Measure 11: Water conservation		
Implement indoor water efficiency measures (select all that apply)	Implement water efficient showerheads and faucets.	1
	Install on-demand water circulators on all showers/baths[8].	2
Incorporate outdoor water efficiency measures	Design and plan outdoor landscapes planted with drought-tolerant, low maintenance plants with a 1) drip irrigation system or 2) sprinkler irrigation system with a weather-based irrigation controller.	4
	Total for measure	*7*
	Multi-family Total for all measures	***174***
	Multi-family Project Points Subtotal	
Additional Recommended Measures		
AR-1: Meet CalGreen	CalGreen Tier 1 compliance.	5
	CalGreen Tier 2 compliance.	10

[8] According to CALGreen, a hot water recirculation system is one which includes "a thermostat that will automatically shut off the recirculation pump when the water temperature reaches a preset level at the point of use."

Description	Feature	Project Points
voluntary tiers (select one option)		
AR-2: Generate energy from on-site solar PV (4 stories and higher buildings only, select one option)	Solar PV that generates 30%-49% of residential energy needs on multifamily residential buildings that are 4 stories in height or taller.	5
	Solar PV that generates 50%-79% of residential energy needs on multifamily residential buildings that are 4 stories in height or taller.	10
	Solar PV that generates 80% or more of residential energy needs on multifamily residential buildings that are 4 stories in height or taller.	15
AR-3: Energy Storage	If the building is 3 stories in height or less, install battery energy storage systems that meet the same performance standards as an energy storage system that would be required by the building code in a comparable building 4 stories in height or taller.	5
AR-4: Recycled Water	Use recycled water for at least 80% of outdoor water needs.	4
AR-5: Reflective Paving	Use high-reflectivity pavement for all hardscaped areas, including parking areas, walking paths, and patios.	4
AR-6: Building Orientation	Orient the building along a north-south alignment.	3
AR-7: Building Shading	Shade at least 90% of south-facing glazing by vegetation or overhangs at noon on June 21.	2
AR-8: Building Daylight	Provide daylighting in all rooms.	1
	Total additional recommended measures	***44***
	Multi-family Project Points Subtotal	
	Total Multi-family Points Possible	***218***
	MULTI-FAMILY PROJECT POINTS TOTAL	**104**

Table 4. Screening Table for Implementing GHG Performance Standards for Single-Family Residential Development, 2030 (Circle Applicable Project Points, 100 point minimum)

Description	Feature	Project Points
Reduction Measure 1: Building Electrification		
Replacement of gas appliance with efficient electric appliance (select all that apply)	Electric space heater	6
	Electric water heater	8
	Electric stove	5
	Electric dryer	1
Additional electric appliance measures (select all that apply)	Electric pool heater (if applicable)	1
	Electric spa heater (if applicable)	1
Lack of natural gas infrastructure	Project site does not have any natural gas infrastructure.	10
	Total for measure	*32*
Reduction Measure 2: Urban Cooling		
On-site tree planting (select one option)[9]	1 tree per each required on-site vehicle parking space.	6
	2 trees per each required on-site vehicle parking space.	12
	3 trees per each required on-site vehicle parking space.	18
	Total for measure	*18*
Reduction Measure 3: Transit Oriented Communities (TOCs)		
New development is located in a transit-oriented community (TOC)	Development site is located within ½ mile radius of one or more of the following: a Bus Rapid Transit (BRT) stop, bus transit center, light rail station, the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods, and/or High-Quality Transit Corridor defined as a corridor with fixed route bus service with service intervals no	10

[9]This strategy specifies the ratio of additional trees per required vehicle parking spaces. Based upon total on-site vehicle parking spaces required per the City of Ontario Development Code for the project, the Applicant will calculate the number of trees required to meet this measure and obtain points. The landscape plan will show onsite trees and the tree matrix shall identify all trees associated with the Urban Cooling Measure compliance. The City code requires trees onsite and within paved areas to reduce the associated heat build-up from development. The Landscape Planning Division will consider these trees in the calculation to be counted toward the Urban Cooling Measure.

Description	Feature	Project Points
	longer than 15 minutes during peak commute hours.[10]	
Provision of free transit passes for onsite residents or tenants for a period of 5 years after completion of construction. (select one option)	One 100% discounted (free) annual transit pass per residential unit.	6
	Total for measure	*16*
Reduction Measure 4: Vehicle Electrification[11]		
Installation of EV charging stations for vehicle parking garages	Installation of one Level 2 or higher EV charging station for each vehicle parking space or per single-family garage.	32
	Total for measure	*32*
Reduction Measure 5: Active Transportation		
Installation or improvement of bicycle facilities (select all that apply)	Bicycle parking facilities with 1:1 ratio of bicycle parking to guest vehicle parking space	3
	Construct or improve a single bicycle lane facility (only Class I, II, or IV) that 1) connects to a larger existing bikeway network or 2) closes an existing bikeway network gap that is at least 0.5 miles long.	6
Installation or improvement of pedestrian facilities (select one option)	Two or three pedestrian infrastructure improvements to street design on private streets, including, but not limited to curb extensions, raised crosswalks, speed humps/bumps, street tree plantings in parkways or street medians, and elevated pavement markings.	3
	Four or more pedestrian infrastructure improvements to street design on private streets, including, but not limited to curb extensions, raised crosswalks, speed humps/bumps, street tree plantings in parkways or street medians, and elevated pavement markings.	6
	Total for measure	*15*

[10] A project shall be considered to be within one-half mile of a major transit stop or high-quality transit corridor if all parcels within the project have no more than 25 percent of their area farther than one-half mile from the stop or corridor and if not more than 10 percent of the residential units or 100 units, whichever is less, in the project are farther than one-half mile from the stop or corridor.

[11] EV charging station levels 1-3 are defined in the California Green Building Standards or CALGreen Code, accessed at https://www.dgs.ca.gov/BSC/CALGreen. One installed charging station per single family 2-car garage shall apply.

Reduction Measure 6: Electric construction equipment		
Use electric construction equipment (select one option)	One-third (33%) of construction equipment used for construction (during building phase, not including grading phase), measured by number of hours of operation, is zero emission equipment.	6
	Half (50%) of construction equipment used for construction (during the building phase, not including the grading phase), measured by the number of hours of operation, is zero emission equipment.	12
	Two-thirds (66%) or more of construction equipment used for construction (during the building phase, not including the grading phase), measured by number of hours of operation, is zero emission equipment.	18
	Total for measure	*18*
Reduction Measure 7: Waste diversion		
Design and plan single-family housing developments to include onsite areas for municipal compost/green waste and recycling bins/container	Site design allocates sufficient space for storage and collection of green waste, organic waste, and recyclables.	2
	Total for measure	*2*
Reduction Measure 8: Water conservation		
Implement indoor water efficiency measures (select all that apply)	Implement water efficient showerheads and faucets.	1
	Install on-demand water circulators on all showers/baths.[12]	2
Incorporate outdoor water efficiency measures	Design and plan outdoor landscapes planted with drought-tolerant, low maintenance plants with a 1) drip irrigation system or 2) sprinkler irrigation system with a weather-based irrigation controller.	4
	Total for measure	*7*
	Single-Family Total for all measures	***140***
	Single-Family Project Points Subtotal	
Additional Recommended Measures		
AR-1: Meet CalGreen voluntary tiers (selected one)	CalGreen Tier 1 compliance	5
	CalGreen Tier 2 compliance	10

[12] According to CALGreen, a hot water recirculation system is one which includes "a thermostat that will automatically shut off the recirculation pump when the water temperature reaches a preset level at the point of use."

AR-2: Solar & battery backup (select all that apply)	If the home is required to install a solar energy system, install a system at least 20% larger than the minimum required.	2
	Install a battery energy storage system that meets the minimum system performance requirements in Appendix AJ12.2 of the California Building Standards Code.	8
AR-3: Recycled Water	Use recycled water for at least 80% of outdoor water needs.	4
AR-4: Reflective Paving	Use high-reflectivity pavement for all hardscaped areas, including parking areas, walking paths, and patios.	4
AR-5: Building Orientation	Orient the building along a north-south alignment	3
AR-6: Building Shading	Shade at least 90% of south-facing glazing by vegetation or overhangs at noon on June 21.	2
AR-7: Building Daylight	Provide daylighting in all rooms	1
	Total additional recommended measures	***34***
	Single-Family Project Points Subtotal	
	Total Single-Family Points Possible	***174***
	SINGLE-FAMILY PROJECT POINTS TOTAL	

Table 5. Screening Table for Implementing GHG Performance Standards for Warehouse Non-residential Development, 2030 (Circle Applicable Project Points, 100 points minimum)

Description	Feature	Project Points
Reduction Measure 1: Building Electrification		
Replacement of gas appliance with electric appliance (select all that apply)	Electric space heater	5
	Electric water heater	8
	Electric stove (if applicable)	2
Lack of natural gas infrastructure	Project site does not have any natural gas infrastructure	8
	Total for measure	*23*
Reduction Measure 2: Solar Energy Systems for New Warehouse Development only *(solar energy system required for warehouse development)*		
Installation of rooftop solar energy systems at new warehouse/logistics facilities. (select one option)	Installation of rooftop solar energy system which generates enough electricity to meet 45% of annual warehouse electricity demand.	22
	Installation of rooftop solar energy system which generates enough electricity to meet 90% of annual warehouse electricity demand.	44
	Installation of rooftop solar energy system which generates enough electricity to meet 100% of annual warehouse electricity demand.	48
Installation of battery storage at new warehouse/logistics facilities (select one option)	Solar battery storage installation with a capacity of 200-599 kW (DC).	3
	Solar battery storage installation with a capacity of 600-799 kW (DC).	6
	Solar battery storage installation with a capacity of 800-1200 kW (DC).	11
	Total for measure	*59*
Reduction Measure 3: Green Roofs		
Installation of a roof with a planted layer of vegetation over a waterproof surface for non-residential buildings (select one option)	Medium Green Roof – Total vegetated area makes up 50% of combined non-residential floor area (in square feet).	1
	Large Green Roof – Total vegetated area makes up 100% or more of combined non-residential floor area (in square feet).	2
	Total for measure	*2*
Reduction Measure 4: Urban Cooling		
On-site tree planting	1 tree per each required on-site employee/visitor vehicle parking space.	4
	2 trees per each required on-site employee/visitor vehicle parking space.	8

Description	Feature	Project Points
(select one option)[13]	3 trees per each required on-site employee/visitor vehicle parking space.	15
	Total for measure	*15*
Reduction Measure 5: Transit Oriented Communities (TOCs)		
New development is located in a transit-oriented community (TOC)	The development site is located within ½ mile radius of one or more of the following: a Bus Rapid Transit (BRT) stop, bus transit center, light rail station, the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods, and/or High-Quality Transit Corridor defined as a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.[14]	7
	Total for measure	*7*
Reduction Measure 6: Increase Transit Ridership		
Provision of free transit passes in a quantity equivalent to the expected number of employees at the non-residential building. Transit passes shall be provided for a period of 5 years after completion of construction. [15]	One free annual transit pass for every employee.	6

[13] This strategy specifies the ratio of additional trees per required employee/visitor vehicle parking spaces. Based upon total on-site vehicle parking spaces required per the City of Ontario Development Code for the project, the Applicant will calculate the number of trees required to meet this measure and obtain points. The landscape plan will show onsite trees and the tree matrix shall identify all trees associated with the Urban Cooling Measure compliance. The City code requires trees onsite and within paved areas to reduce the associated heat build-up from development. The Landscape Planning Division will consider these trees in the calculation to be counted toward the Urban Cooling Measure.

[14] A project shall be considered to be within one-half mile of a major transit stop or high-quality transit corridor if all parcels within the project have no more than 25 percent of their area farther than one-half mile from the stop or corridor and if not more than 10 percent of the residential units or 100 units, whichever is less, in the project are farther than one-half mile from the stop or corridor.

[15] Provision for annual transit passes to be incorporated into CC&R's bylaws, as appropriate.

Description	Feature	Project Points
	Total for measure	6
Reduction Measure 7: Vehicle Electrification[16]		
Installation of EV charging stations for truck parking spaces (select one option)[17]	Installation of Level 2 or higher EV charging stations at a rate of 5-9% of planned truck parking spaces.	2
	Installation of Level 2 or higher EV charging stations at a rate of 10-19% of planned truck parking spaces.	4
	Installation of Level 2 or higher EV charging stations at a rate of 20-29% of planned truck parking spaces.	6
	Installation of Level 2 or higher EV charging stations at a rate of 30-49% of planned truck parking spaces.	10
	Installation of Level 2 or higher EV charging stations at a rate of 50% or more of planned truck parking spaces.	15
	Total for measure	*15*
Reduction Measure 8: Active Transportation		
Installation or improvement of bicycle facilities (select all that apply)	Bicycle parking facilities with 1:20 ratio of bicycle parking to employee vehicle parking space.	2
	Construct or improve a single bicycle lane facility (only Class I, II, or IV) that 1) connects to a larger existing bikeway network or 2) closes an existing bikeway network gap that is at least 0.5 miles long.	3
Installation or improvement of pedestrian facilities (select one option)	Two or three pedestrian infrastructure improvements to street design on private streets, including, but not limited to curb extensions, raised crosswalks, speed humps/bumps, street tree plantings in parkways or street medians, and elevated pavement markings.	2
	Four or more pedestrian infrastructure improvements to street design on private streets, including, but not limited to private property curb extensions, raised crosswalks, speed humps/bumps, elevated pavement markings, and public property street tree plantings in parkways or street medians.	4
	Total for measure	9

[16] EV charging station levels 1-3 are defined in the California Green Building Standards or CALGreen Code, accessed at https://www.dgs.ca.gov/BSC/CALGreen.

[17] Reduction Measure 7 refers to EV charging stations for two-axle trucks.

Description	Feature	Project Points
Reduction Measure 9: Parking Policy		
Require that employee vehicle parking spaces be purchased at an additional cost. This does not include client/visitor vehicle parking spaces [18]	Unbundle, or separate, 100% of non-residential project's parking costs from property costs, requiring those who wish to purchase parking spaces to do so at an additional cost.	1
	Total for measure	*1*
Reduction Measure 10: Electric construction equipment[19]		
Use electric construction equipment for a portion of the construction project (select one option)	One-third (33%) of construction equipment used for construction (during building phase, not including grading phase), measured by number of hours of operation, is zero emission equipment.	3
	Half (50%) of construction equipment used for construction (during the building phase, not including the grading phase), measured by the number of hours of operation, is zero emission equipment.	5
	Two-thirds (66%) or more of construction equipment used for construction (during the building phase, not including the grading phase), measured by number of hours of operation, is zero emission equipment.	8
	Total for measure	*8*
Reduction Measure 11: Waste diversion		
Site design for non-residential warehouse development includes site(s) for green waste/ organics and recycling collection bins	Site design allocates sufficient space for storage and collection of green waste, organic waste, and recyclables.	20
	Total for measure	*20*
Reduction Measure 12: Water conservation		
Implement indoor water efficiency measures (select all	Install water-efficient faucets and showerheads.	1
	Install on-demand water circulators on commercial sinks or dishwashing equipment.[20]	2

[18] Provision for unbundling parking to be incorporated into CC&R's bylaws or separate parking agreement, as appropriate.

[19] Electric construction equipment includes electric compact excavators, electric motors, electric generators, and mobile charging equipment.

[20] According to CALGreen, a hot water recirculation system is one which includes "a thermostat that will automatically shut off the recirculation pump when the water temperature reaches a preset level at the point of use."

Description	Feature	Project Points
that apply)		
Incorporate outdoor water efficiency measures	Design and plan outdoor landscapes planted with drought-tolerant, low maintenance plants with a 1) drip irrigation system or 2) sprinkler irrigation system with a weather-based irrigation controller.	4
	Total for measure	*7*
	Warehouse Total for measures	***172***
	Warehouse Project Points Subtotal	
Additional Recommended Measures		
AR-1: Charging stations for large trucks (select one option)	Installation of conduit for charging stations for zero emission trucks larger than two-axles (class 8 and 9, and semi-trucks) so that facilities are prepared for the transition to electric trucks.	4
	Installation of 1-4 charging stations for zero emission trucks larger than two-axles (class 8 and 9, and semi-trucks)	8
	Installation of 5-9 charging stations for zero emission trucks larger than two-axles (class 8 and 9, and semi-trucks)	12
	Installation of 10 or more charging stations zero emission trucks larger than two-axles (class 8 and 9, and semi-trucks)	24
AR-2: Meet CalGreen voluntary tiers (select one option)	CalGreen Tier 1 compliance	5
	CalGreen Tier 2 compliance	10
AR-3: Installation of EV charging stations for employee vehicle parking spaces (select one option)	Installation of Level 2 or higher EV charging stations at a rate of 5-9% of planned employee vehicle parking spaces.	4
	Installation of Level 2 or higher EV charging stations at a rate of 10-19% of planned employee vehicle parking spaces with Level 2 EV charging stations.	6
	Installation of Level 2 or higher EV charging stations at a rate of 20% or more of planned employee vehicle parking spaces Level 2 EV charging stations.	12
AR-4: Recycled Water	Use recycled water for at least 80% of outdoor water needs.	2
AR-5: Reflective Paving	Use high-reflectivity pavement for all hardscaped areas, including parking areas, walking paths, and patios.	4
AR-6: Zero Emission Cargo Equipment	Use of zero emission cargo handling equipment for a minimum of 50% of all operations.	4
AR-7: Alternative Fueling	Installation of alternative fuel facilities, such as CNG, biofuels, or hydrogen fueling stations.	10
	Total additional recommended measures	***66***

Description	Feature	Project Points
	Warehouse Project Points Subtotal	
	Total Warehouse Points Possible	***238***
	WAREHOUSE PROJECT POINTS TOTAL	**103**

Table 6. Screening Table for Implementing GHG Performance Standards for Commercial, Office, Medical, Hotel, Fitness, Industrial, and Retail Development, 2030 (Circle Applicable Project Points, 100 points minimum)

Description	Feature	Project Points
Reduction Measure 1: Building Electrification		
Replacement of gas appliance with efficient electric appliance (select all that apply)	Electric space heater	8
	Electric water heater	10
	Electric stove	4
	Electric Dryer	4
	Electric pool heater	2
	Electric spa heater	2
Lack of natural gas infrastructure	Project site does not have any natural gas infrastructure.	8
	Total for measure	*34*
Reduction Measure 2: Solar Energy Systems for all other non-residential land use types *(required for all other non-residential projects)*[21]		
Installation of rooftop solar energy systems at new non-residential buildings (select one option)	Installation of rooftop solar energy system which generates enough electricity to meet 45% of annual electricity demand.	3
	Installation of rooftop solar energy system which generates enough electricity to meet 90% of annual electricity demand.	6
Installation of battery storage at new non-residential buildings (select one option)	Solar battery storage installation with a capacity of 200-799 kW (DC).	1
	Solar battery storage installation with a capacity of 800-1200 kW (DC).	2
	Total for measure	*8*
Reduction Measure 3: Green Roofs		
Installation of a roof with a planted layer of vegetation over a waterproof surface for non-residential buildings (select one option)	Medium Green Roof – Total vegetated area makes up 50% of combined non-residential floor area (in square feet).	1
	Large Green Roof – Total vegetated area makes up 100% or	2

[21] Measure 2 requires solar photovoltaic panels or other appropriate onsite renewable energy generation systems for the following types of projects:

New commercial and office buildings, or existing commercial and office building expansions greater or equal to 45,000 square feet in size and

New industrial or existing industrial buildings expansions greater or equal to 100,000 square feet in size.

Description	Feature	Project Points
	more of combined non-residential floor area (in square feet).	
	Total for measure	2
Reduction Measure 4: Urban Cooling		
On-site tree planting (select one option)[22]	1 tree per each required on-site vehicle parking space.	6
	2 trees per each required on-site vehicle parking space.	12
	3 trees per each required on-site vehicle parking space.	18
	Total for measure	*18*
Reduction Measure 5: Transit Oriented Communities (TOCs)		
New development is located in a transit-oriented community (TOC)	Development site is located within ½ mile radius of one or more of the following: a Bus Rapid Transit (BRT) stop, bus transit center, light rail station, the intersection of two or more major bus routes with a frequency of service interval of 15 minutes or less during the morning and afternoon peak commute periods, and/or High-Quality Transit Corridor defined as a corridor with fixed route bus service with service intervals no longer than 15 minutes during peak commute hours.[23]	2
	Total for measure	2
Reduction Measure 6: Increase Transit Ridership		
Provision of free transit passes in a quantity equivalent to the expected number of employees at the non-	One free annual transit pass for every employee.	6

[22] This strategy specifies the ratio of additional trees per required vehicle parking spaces. Based upon total on-site vehicle parking spaces required per the City of Ontario Development Code for the project, the Applicant will calculate the number of trees required to meet this measure and obtain points. The landscape plan will show onsite trees and the tree matrix shall identify all trees associated with the Urban Cooling Measure compliance. The City code requires trees onsite and within paved areas to reduce the associated heat build-up from development. The Landscape Planning Division will consider these trees in the calculation to be counted toward the Urban Cooling Measure.

[23] A project shall be considered to be within one-half mile of a major transit stop or high-quality transit corridor if all parcels within the project have no more than 25 percent of their area farther than one-half mile from the stop or corridor and if not more than 10 percent of the residential units or 100 units, whichever is less, in the project are farther than one-half mile from the stop or corridor.

Description	Feature	Project Points
residential building. Transit passes shall be provided for a period of 5 years after completion of construction [24]		
	Total for measure	*6*
Reduction Measure 7: Vehicle Electrification[25]		
Installation of EV charging stations for employee vehicle parking spaces (select one option)	Installation of Level 2 or higher EV charging stations at a rate of 5-9% of planned employee vehicle parking spaces.	3
	Installation of Level 2 or higher EV charging stations at a rate of 10-19% of planned employee vehicle parking spaces with Level 2 EV charging stations.	5
	Installation of Level 2 or higher EV charging stations at a rate of 20% or more of planned employee vehicle parking spaces Level 2 EV charging stations.	10
	Total for measure	*10*
Reduction Measure 8: Active Transportation		
Installation or improvement of bicycle facilities (select all that apply)	Bicycle parking facilities with 1:20 ratio of bicycle parking to employee vehicle parking space	3
	Construct or improve a single bicycle lane facility (only Class I, II, or IV) that 1) connects to a larger existing bikeway network or 2) closes an existing bikeway network gap that is at least 0.5 miles long.	4
Installation or improvement of pedestrian facilities (select one option)	Two or three pedestrian infrastructure improvements to street design on private streets, including, but not limited to curb extensions, raised crosswalks, speed humps/bumps, street tree plantings in parkways or street medians, and elevated pavement markings.	4
	Four or more pedestrian infrastructure improvements to	8

[24] Provision for annual transit passes to be incorporated into CC&R's bylaws or separate parking agreement, as appropriate.

[25] EV charging station levels 1-3 are defined in the California Green Building Standards or CALGreen Code, accessed at https://www.dgs.ca.gov/BSC/CALGreen.

Description	Feature	Project Points
	street design on private streets, including, but not limited to curb extensions, raised crosswalks, speed humps/bumps, street tree plantings in parkways or street medians, and elevated pavement markings.	
	Total for measure	*15*
Reduction Measure 9: Parking Policy		
Require that employee vehicle parking spaces be purchased at an additional cost. This does not include client/visitor vehicle parking spaces [26]	Unbundle, or separate, 100% of non-residential project's parking costs from property costs, requiring those who wish to purchase parking spaces to do so at an additional cost.	1
	Total for measure	*1*
Reduction Measure 10: Electric construction equipment[27]		
Use electric construction equipment for a portion of the construction project (select one option)	One-third (33%) of construction equipment used for construction (during building phase, not including grading phase), measured by number of hours of operation, is zero emission equipment.	4
	Half (50%) of construction equipment used for construction (during the building phase, not including the grading phase), measured by the number of hours of operation, is zero emission equipment.	7
	Two-thirds (66%) or more of construction equipment used for construction (during the building phase, not including the grading phase), measured by number of hours of operation, is zero emission equipment.	11
	Total for measure	*11*

[26] Provision to unbundle parking shall be incorporated into CC&R's bylaws or separate parking agreement, as appropriate.

[27] Electric construction equipment includes electric compact excavators, electric motors, electric generators, and mobile charging equipment.

Description	Feature	Project Points
Reduction Measure 11: Waste diversion		
Design and plan commercial, office, and industrial developments to include onsite areas for municipal compost/green waste and recycling bins	Site design allocates sufficient space for storage and collection of green waste, organic waste, and recyclables.	30
	Total for measure	*30*
Reduction Measure 12: Water conservation		
Implement indoor water efficiency measures (select all that apply)	Install water-efficient faucets and showerheads.	3
	Install on-demand water circulators on commercial sinks or dishwashing equipment.	3
Incorporate outdoor water efficiency measures	Design and plan outdoor landscapes planted with drought-tolerant, low maintenance plants with a 1) drip irrigation system or 2) sprinkler irrigation system with a weather-based irrigation controller.	8
	Total for measure	*14*
	Commercial/etc. Total for all measures	***151***
	Commercial/etc. Project Points Subtotal	
Additional Recommended Measures		
AR-1: Meet CalGreen voluntary tiers (selected one)	CalGreen Tier 1 compliance	5
	CalGreen Tier 2 compliance	10
AR-2: Recycled Water	Use recycled water for at least 80% of outdoor water needs	5
AR-3: Reflective Paving	Use high-reflectivity pavement for all hardscaped areas, including parking areas, walking paths, and patios.	5
AR-4: Zero Emission Cargo Equipment	Use of zero emission offroad cargo handling equipment for a minimum of 50% of building phase (measured in number of hours).	4
AR-5: Alternative Fueling conduit	Installation of conduit for zero emission vehicle charging so that facilities are prepared for the transition to electric fleets.	4
AR-6: Alternative Fueling Facility	Installation of alternative fuel facilities, such as CNG, biofuels, or hydrogen fueling stations.	8

Description	Feature	Project Points
	Total additional recommended measures	36
	Commercial/etc. Project Points Subtotal	
	Total Commercial/etc. Points Possible	***187***
	COMMERCIAL/etc. PROJECT POINTS TOTAL	**102**

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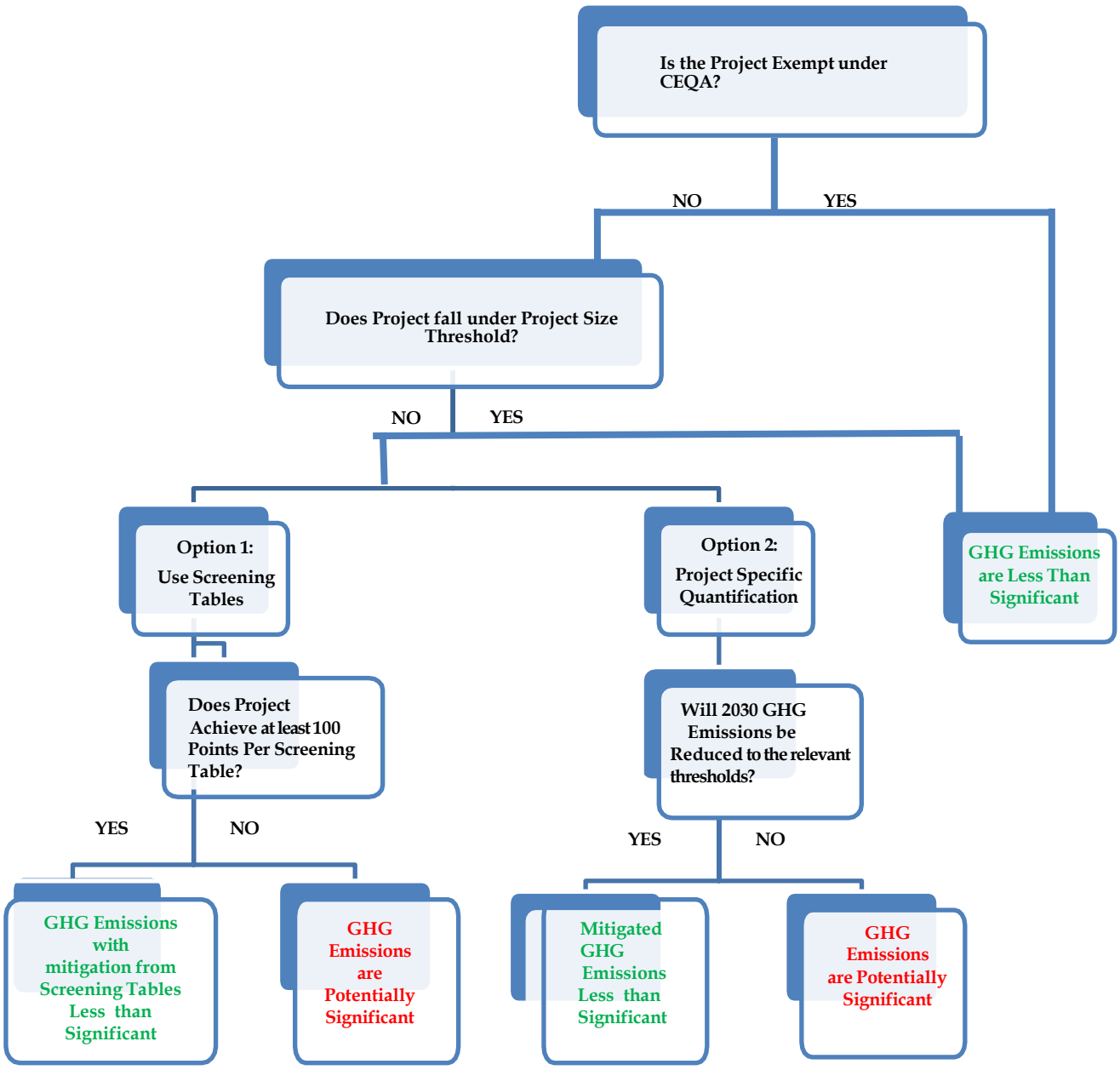
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Appendix A:

GHG DEVELOPMENT REVIEW PROCESS FLOW CHART DIAGRAM[28]



[28] For Option 2, to determine whether project satisfies 2030 emissions reductions per dwelling unit (for residential projects) or per 2,500 square feet of nonresidential conditioned space (for nonresidential projects), reference Tables A-1 and A-2 in Appendix A. These tables show emissions totals for new residential and nonresidential development by 2030 per residential unit or building square footage with 2022 CCAP GHG reduction measures.

Table A-1. 2030 Emissions Totals (in $MTCO_2e$) for New Residential Development with GHG Reduction Measures from 2022 CCAP

Sector	Subsector	2030[29]	2050[30]
Residential Energy	Residential electricity	8,560	0
	Residential natural gas	16,030	530
Transportation	Pre-CCAP Community-wide light duty VMT (total minus light-duty municipal VMT)	61,100	65,050
Off-Road Equipment	Agricultural Equipment	N/A	N/A
	Airport Ground Support	N/A	N/A
	Construction and Mining	14,380	14,990
	Industrial	N/A	N/A
	Lawn and Garden	N/A	N/A
	Light Commercial	N/A	N/A
	Pleasure Craft	N/A	N/A
	Portable Equipment	N/A	N/A
	Recreational	N/A	N/A
	Transportation Refrigeration Units	N/A	N/A
Solid Waste	Municipal solid waste	6,490	32,370
	Alternative daily cover	90	370
	Transform waste	40	130
Waste and Wastewater	Indirect water energy	1,010	0
	Indirect wastewater energy	140	0
	Direct wastewater plant emissions	330	3,420
Sequestration	Development activities	490	1,230
	Street tree sequestration	-1,090	-1,820
Agriculture	Enteric fermentation	N/A	N/A
	Fertilizer application	N/A	N/A
	Manure management	N/A	N/A
Total (including land use/sequestration)		**107,570**	**116,270**
$MTCO_2e$ per new residential unit		**5.85**	**1.53**
NOTE: Population per new residential unit		*3.48*	*3.30*

[29]Total $MTCO_2e$ for 2030 signifies the level of GHG emissions reductions for new development that are consistent with the City's GHG emission target of 6.0 $MTCO_2e$ per person (service population) in 2030.

[30]Total $MTCO_2e$ for 2050 signifies the level of GHG emissions reductions for new development that are consistent with the City's GHG emission target of 2.0 $MTCO_2e$ per person (service population) in 2050.

Table A-2. Emissions Totals (in $MTCO_2e$) for New Non-residential Development with GHG Reduction Measures from 2022 CCAP

Sector	Subsector	2030[31]	2050[32]
Nonresidential Energy	Non-residential electricity	11,820	0
	Non-residential natural gas	22,050	15,700
Transportation	Light-duty municipal vehicles	170	280
	Community-wide light-duty vehicles	46,680	79,400
	Heavy-duty municipal vehicles	160	200
	Community-wide heavy-duty VMT (total minus light-duty municipal VMT)	20,330	32,180
Off-Road Equipment	Agricultural Equipment	0	0
	Airport Ground Support	0	0
	Construction and Mining	11,010	10,820
	Industrial	0	0
	Lawn and Garden	0	0
	Light Commercial	0	0
	Pleasure Craft	0	0
	Portable Equipment	0	0
	Recreational	0	0
	Transportation Refrigeration Units	0	0
Solid Waste	Municipal solid waste	4,970	23,360
	Alternative daily cover	70	260
	Transform waste	30	100
Waste and Wastewater	Indirect water energy	170	0
	Indirect wastewater energy	60	0
	Direct wastewater plant emissions	260	2,470
Sequestration	Development activities	380	890
	Street tree sequestration	-2,600	-5,590
Agriculture	Enteric fermentation	N/A	N/A
	Fertilizer application	N/A	N/A
	Manure management	N/A	N/A
	Total (including land use/sequestration)	**115,560**	**160,070**
	$MTCO_2e$ per 2,500 sq ft nonresidential space	**8.84**	**3.61**
	Note: Jobs per 2,500 sq ft nonresidential space	*2.31*	*2.83*

[31]Total $MTCO_2e$ for 2030 signifies the level of GHG emissions reductions for new development that are consistent with the City's GHG emission target of 6.0 $MTCO_2e$ per person (service population) in 2030.

[32]Total $MTCO_2e$ for 2050 signifies the level of GHG emissions reductions for new development that are consistent with the City's GHG emission target of 2.0 $MTCO_2e$ per person (service population) in 2050.

Sample Project Sizes by Land Use Category that are below Project Size Threshold

Definitions:	
Single Family Residential Single-Family Detached homes on individual lots typical of a suburban subdivision	
Apartments/Condominiums/Townhouse	
Apartments High Rise:	High-rise apartments are units located in rental buildings that have more than 10 levels and most likely have one or more elevators.
Apartments Low Rise:	Low-rise apartments are units located in rental buildings that have 1-3 levels.
Apartments Mid Rise:	Mid-rise apartments in rental buildings that have between 4 and 10 levels.
Condo/Townhouse:	These are ownership units that have at least one other owned unit within the same building structure.
Retirement Community Senior Housing (Age 50 or older) These communities provide multiple elements of senior adult living. Housing options may include various combinations of senior adult housing single family and/or multi-family, in support of assisted living, and skilled nursing care aimed at allowing the residents to live in one community as their medical needs change.	
General Commercial/Retail/Office (refrigeration not to exceed 10% of total sf) Home Improvement Super Store, Auto Care Center, Electronic Superstore, Hardware store, Pharmacy/Drugstore with & without drive thru, General Office Building, Bank with & without drive thru, Civic Center, Medical Office, Office Park, Health Club, and Strip Mall (small strip shopping centers contain a variety of retail shops and specialize in quality apparel, hard goods and services such as real estate offices, dance studios, florists and small restaurants) or Convenience Store not to exceed 5,000 sf.	
Supermarket/Grocery/Discount Club (refrigeration exceed 10% of total sf) Supermarkets: free-standing retail stores selling a complete assortment of food: food preparation and wrapping materials; and household, cleaning items. Supermarkets may also contain the following products and services: ATMs, automobile supplies, bakeries, books and magazines, dry cleaning, floral arrangements, greeting cards, limited-service banks, photo centers, pharmacies, and video rental areas. Discount Club: a discount or warehouse store where shoppers pay a membership fee in order to take advantage of discounted prices on a wide variety of items such as food, clothing, tires and appliances. Many items are sold in large quantities or in bulk.	
Restaurants (sit down) Full-service eating establishments with typical turnover rates of at least one hour or longer. Patrons commonly wait to be seated, are served by a waiter, order from menus and pay for meals after they eat.	

Definitions:
Fast-Food Restaurants (with or without /Drive Thru) Patrons generally order at a cash register and pay before they eat.
Gas Station Gas Station includes the building square footage and excludes the canopy. Gas/Service Station Projects that include "One building" with two to three ancillary uses: Fast Food w/Drive Thru, Convenience Market 24hr.
Warehouse Industrial Warehouse with or without refrigeration, storage, and logistics.
Wireless Communication Towers Cell Towers-freestanding
Passive Park Amenities that include tot lots, picnic table, non-programmed open space.
Active Park Amenities include one of the following: game fields lighted, pool facility and community center (as per the Comprehensive Recreation and Parks Master Plan).

Appendix B:

METHODOLOGY FOR THE DEVELOPMENT AND APPLICATION OF THE SCREENING TABLES

The point values in the Screening Tables were derived from the projected emissions reductions that would be achieved by each of the reduction measures associated with new development in Ontario in 2030 and 2050 with implementation of the 2022 CCAP. The points are allocated to each GHG reduction strategy using separate 100-point scales, representing the full potential for GHG emissions reductions for each land use type. The points were determined by disaggregating growth in activity data and GHG emissions by land use type to estimate the relative contribution of newly constructed residential and non-residential buildings to growth in consumption of energy, water, fuels, and other activities that generate GHG emissions in the City limit. Growth in activity was estimated by subtracting the activity level in the baseline year, 2019 from the activity level in the forecasted year, such as 2030. For example, to find the net increase in the Vehicle Miles Traveled (VMT) between 2019 and 2030, take the annual number of miles traveled in 2030 and subtract the annual number of miles traveled in 2019.

The points for each Screening Table were derived by estimating the share of community-wide activity occurring in residential and non-residential land uses. The Screening Table calculations use a demographic based assumption to simplify calculations. It was assumed that the relative share of activity data attributed to residential land uses is equal to the ratio of resident population to the service population. Similarly, it was assumed that the relative share of activity data attributed to non-residential land uses is equal to the ratio of the worker population to the service population. The service population is the sum of the resident and worker populations in the community.

Once disaggregated into residential and non-residential activity, the new activity was multiplied by the appropriate emission factor (the same used in the preparation of the 2022 CCAP) to determine the GHG emissions produced in $MTCO_2e$ by both residential and non-residential new developments by 2030 and 2050. The sum of the emissions produced by newly constructed residential and non-residential land uses equals the total emissions produced by all new buildings constructed in the City limits during the time period. The points derived from GHG emission reductions are applicable to project level by applying the percent of community wide emissions reductions achieved by each strategy to each residential unit or square footage of commercial/industrial uses. Refer to **Table B-1** and **Table B-2** for the disaggregated activity and emissions reductions, respectively, resulting from the 2022 CCAP for new residential development in 2030 and 2050. **Table B-3** and **Table B-4** present disaggregated activity and emissions reductions, respectively, resulting from the 2022 CCAP for new non-residential development in 2030 and 2050.

Note that the Screening Tables and point values are best used for typical development projects processed by the City. Examples of typical development projects include residential subdivisions, multi-family residential apartments, condominiums, and townhouses, retail commercial, big box retail, office buildings, business parks, and warehousing. Mixed-use

projects can use the instructions at the beginning of the Screening Tables. Transit-oriented development (TOD) and infill projects can use the Screening Tables.

However, more unusual types of industrial projects, such as cement manufacturing, metal foundries, refrigerant manufacturing, electric generating stations—including large alternative energy electric generation, and oil refineries, cannot use the Screening Tables because the emission sources for those types of uses were not accounted for in the 2022 CCAP.

Quantification of GHG Reduction from New Development

The 2022 CCAP's central goal is to achieve GHG reductions to meet Ontario's adopted 2030 and 2050 reduction targets. To identify these reductions, the 2022 CCAP project built upon existing GHG reduction strategies in the City's 2014 CCAP and added new strategies to address new and emerging issues not covered in the 2014 CCAP.

The project team developed 28 GHG reduction strategies and 106 recommended implementation actions. These strategies include a mix of education and outreach programs to encourage GHG reduction activities, financial subsidies, and other enticements to incentivize GHG reductions, and mandates to require GHG efforts. These 28 strategies are organized into 10 categories:

1. Energy
2. Transportation
3. Off-road
4. Waste
5. Water
6. Agriculture
7. Wastewater
8. Leadership
9. Carbon Sequestration
10. Economic Development

The results of quantifying GHG reduction potential of Ontario's existing and planned local strategies show that, with successful implementation of the strategies, Ontario can meet its 2030 and 2050 emissions per capita reduction targets. Collectively, local strategies are forecast to reduce emissions by 0.51 $MTCO_2e$ per capita by 2030 and 1.09 $MTCO_2e$ per capita by 2050 in addition to the reductions achieved by existing state, regional, and local accomplishments. The City's 2022 CCAP includes performance standards that will reduce GHG emissions from new development by 54,069 $MTCO_2e$ per year in 2030 and 302,803 $MTCO_2e$ in 2050 as compared to emissions levels in 2019 prior to the adoption of the 2022 CCAP. This total can be broken down into the following GHG emissions reductions by land use type:

- New residential development: 24,432 $MTCO_2e$ in 2030 and 215,414 $MTCO_2e$ in 2050.
- New nonresidential development: 29,637 $MTCO_2e$ in 2030 and 87,389 $MTCO_2e$ in 2050.

Table B-1 and **B-2** present the activity and emissions reductions which are responsible for the GHG reductions achieved by new residential development in compliance with the 2022 CCAP. Table **B-3** and **B-4** present the activity and emissions reductions which are responsible for the GHG reductions achieved by new non-residential development in compliance with the 2022 CCAP.

Table B-1. Table of Activity Reductions Resulting from the 2022 CCAP for New Residential Development

Strategy Number	Sector	Strategy Name	kWh		therms		VMT		tons MSW	
			2030	2050	2030	2050	2030	2050	2030	2050
1	Energy	Building electrification	-39,553,940	-326,995,840	1,349,830	11,159,130				
2	Energy	Onsite solar energy for existing residential development.								
3	Energy	Onsite solar energy systems for non-residential development.								
4	Energy	Green roofs	4,375	8,750						
5	Energy	Urban cooling	2,491,235	6,385,839	108,660	278,530				
6	Energy	Energy efficiency retrofits for low-income households								
7	Energy	Energy efficiency retrofits								
8	Transportation	Smart Growth and Infill								
9	Transportation	Transit-Oriented Development					160,288	1,878,123		
10	Transportation	Increase Transportation Ridership					6,085,088	19,973,349		
11	Transportation	Traffic signal synchronization and roadway management								
12	Transportation	Community vehicle electrification	-1,657,190	-17,437,420						
13	Transportation	Active transportation networks					862,632	4,984,968		
14	Transportation	Vehicle idling								
15	Transportation	Parking policy and event parking					1,070,142	10,537,717		
16	Offroad	Electrification of construction equipment only	-2,231,081	-4,114,312						

Strategy Number	Sector	Strategy Name	kWh		therms		VMT		tons MSW	
			2030	2050	2030	2050	2030	2050	2030	2050
17	Offroad	Idling ordinance for construction equipment								
18	Waste	Methane capture at landfills								
19	Waste	Waste diversion							34,524	94,475
20	Waste	Construction and Demolition Waste Recovery Ordinance								
21	Water	Indoor water efficiency	1,336,650	5,365,591						
22	Water	Water efficient landscapes and water recycling								
23	Water	Water system and wastewater operations efficiency								
24	Wastewater	Methane capture for wastewater treatment								
25	Agriculture	Methane capture for dairy operations								
26	Leadership	Climate change awareness and education								
27	Carbon sequestration	Carbon sequestration								
28	Economic development	Green jobs								
		Total	-39,609,951	-336,787,392	1,458,490	11,437,660	8,178,151	37,374,156	34,524	94,475

Table B-2. Table of GHG Emissions Reductions Resulting from 2022 CCAP for New Residential Development

Strategy Number	Sector	Strategy Name	Net emissions saved ($MTCO_2e$)		Percent (Total Points per Strategy)	
			2030	2050	2030	2050
1	Energy	Building electrification	2,410	58,831	10.6%	27.3%
2	Energy	Onsite solar energy for existing residential development.				
3	Energy	Onsite solar energy systems for non-residential development.			62.2%	Less than 1%
4	Energy	Green roofs	1	0	Less than 1%	Less than 1%
5	Energy	Urban cooling	3,180	7,393	14.2%	3.4%
6	Energy	Energy efficiency retrofits for low-income households				
7	Energy	Energy efficiency retrofits				
8	Transportation	Smart Growth and Infill				
9	Transportation	Transit-Oriented Development	44	474	0.2%	0.2%
10	Transportation	Increase Transportation Ridership	1,687	5,043	7.2%	2.3%
11	Transportation	Traffic signal synchronization and roadway management				
12	Transportation	Community vehicle electrification	4,643	103,105	20.7%	47.9%
13	Transportation	Active transportation networks	239	1,259	1.1%	0.6%
14	Transportation	Vehicle idling				
15	Transportation	Parking policy and event parking	297	2,661	1.3%	1.2%
16	Offroad	Electrification of construction equipment only	1,694	14,495	7.5%	6.7%
17	Offroad	Idling ordinance for construction equipment				
18	Waste	Methane capture at landfills				
19	Waste	Waste diversion	8,096	22,153	36.1%	10.3%
20	Waste	Construction and Demolition Waste Recovery Ordinance				
21	Water	Indoor water efficiency	159	0	0.7%	Less than 1%
22	Water	Water efficient landscapes and water recycling	0	0	Less than 1%	Less than 1%
23	Water	Water system and wastewater operations efficiency				
24	Wastewater	Methane capture for wastewater treatment				
25	Agriculture	Methane capture for dairy operations				
26	Leadership	Climate change awareness and education				
27	Carbon sequestration	Carbon sequestration				

Strategy Number	Sector	Strategy Name	Net emissions saved ($MTCO_2e$)		Percent (Total Points per Strategy)	
			2030	2050	2030	2050
28	Economic development	Green jobs				
		Total	22,450	215,414	100.0%	100.0%

Table B-3. Table of Activity Reductions Resulting from the 2022 CCAP for New Nonresidential Development

Strategy Number	Sector	Strategy Name	kWh		therms		VMT		tons MSW	
			2030	2050	2030	2050	2030	2050	2030	2050
1	Energy	Building electrification	-41,672,590	-151,494,120	1,422,130	8,310,100				
2	Energy	Onsite solar energy for existing residential development.								
3	Energy	Onsite solar energy systems for non-residential development.	117,295,950	149,347,150						
4	Energy	Green roofs	17,500	35,000						
5	Energy	Urban cooling	1,906,713	4,609,030	83,160	201,030				
6	Energy	Energy efficiency retrofits for low-income households								
7	Energy	Energy efficiency retrofits								
8	Transportation	Smart Growth and Infill								
9	Transportation	Transit-Oriented Development					122,680	1,355,550		
10	Transportation	Increase Transportation Ridership					4,657,335	14,415,924		
11	Transportation	Traffic signal synchronization and roadway management								
12	Transportation	Community vehicle electrification	-4,490,012	-18,257,119						
13	Transportation	Active transportation networks					660,232	3,597,940		
14	Transportation	Vehicle idling								
15	Transportation	Parking policy and event parking					819,053	7,605,682		

Strategy Number	Sector	Strategy Name	kWh		therms		VMT		tons MSW	
			2030	2050	2030	2050	2030	2050	2030	2050
16	Offroad	Electrification of construction equipment only	-1,707,599	-2,969,538						
17	Offroad	Idling ordinance for construction equipment								
18	Waste	Methane capture at landfills								
19	Waste	Waste diversion							26,424	68,188
20	Waste	Construction and Demolition Waste Recovery Ordinance								
21	Water	Indoor water efficiency	3,139,740	11,885,428						
22	Water	Water efficient landscapes and water recycling								
23	Water	Water system and wastewater operations efficiency								
24	Wastewater	Methane capture for wastewater treatment								
25	Agriculture	Methane capture for dairy operations								
26	Leadership	Climate change awareness and education								
27	Carbon sequestration	Carbon sequestration								
28	Economic development	Green jobs								
		Total	74,489,702	-6,844,168	1,502,290	8,511,130	6,259,299	26,975,096	26,424	68,188

Table B-4. Table of Emission Reductions Resulting from the 2022 CCAP for New Nonresidential Development

Strategy Number	Sector	Strategy Name	Net emissions saved ($MTCO_2e$)		Percent (Total Points per Strategy)	
			2030	2050	2030	2050
1	Energy	Building electrification	2,539	43,811	8.9%	50.2%
2	Energy	Onsite solar energy for existing residential development.				
3	Energy	Onsite solar energy systems for non-residential development.	13,958	0	48.8%	Less than 1%
4	Energy	Green roofs	2	0	Less than 1%	Less than 1%
5	Energy	Urban cooling	2,434	5,336	8.5%	6.1%
6	Energy	Energy efficiency retrofits for low-income households				
7	Energy	Energy efficiency retrofits				
8	Transportation	Smart Growth and Infill				
9	Transportation	Transit-Oriented Development	34	342	0.1%	0.4%
10	Transportation	Increase Transportation Ridership	1,291	3,640	4.5%	4.2%
11	Transportation	Traffic signal synchronization and roadway management				
12	Transportation	Community vehicle electrification	70	4,950	0.2%	5.7%
13	Transportation	Active transportation networks	183	909	0.6%	1.0%
14	Transportation	Vehicle idling				
15	Transportation	Parking policy and event parking	227	1,921	0.8%	2.2%
16	Offroad	Electrification of construction equipment only	1,297	10,462	4.5%	12.0%
17	Offroad	Idling ordinance for construction equipment				
18	Waste	Methane capture at landfills				
19	Waste	Waste diversion	6,196	15,989	21.7%	18.3%
20	Waste	Construction and Demolition Waste Recovery Ordinance				
21	Water	Indoor water efficiency	374	0	1.3%	Less than 1%
22	Water	Water efficient landscapes and water recycling				
23	Water	Water system and wastewater operations efficiency				
24	Wastewater	Methane capture for wastewater treatment				
25	Agriculture	Methane capture for dairy operations				

Strategy Number	Sector	Strategy Name	Net emissions saved ($MTCO_2e$)		Percent (Total Points per Strategy)	
			2030	2050	2030	2050
26	Leadership	Climate change awareness and education				
27	Carbon sequestration	Carbon sequestration				
28	Economic development	Green jobs				
		Total	28,605	87,359	100.0%	100.0%

APPENDIX B4

ENERGY CALCULATIONS

Construction Fuel

On-Site Diesel[1]	$MTCO_2e$	Gallons of Fuel[4]
Demolition	101	9,990
Site Preparation/Grading	368	36,286
Building Construction	728	71,724
Paving	58	5,695
Architectural Coating	1	120
Total	1,257	123,815

Off-Site Diesel[1]		
Demolition	44	4,374
Site Preparation/Grading	16	1,616
Building Construction	1,249	123,054
Paving	0	0
Architectural Coating	0	0
Total	1,310	129,044

Off-Site Gasoline[2]		
Demolition	6	687
Site Preparation/Grading	15	1,745
Building Construction	1,684	191,146
Paving	8	872
Architectural Coating	10	1,115
Total	1,723	195,564

Total Diesel Fuel		**252,859**
Total Gasoline Fuel		**195,564**
Total Construction Fuel	4,289	**448,423**

Construction Phase[3]	**Demolition**			**Site Preparation**			**Grading**		
	On-Site Diesel (Off-Road)	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**	**On-Site Diesel (Off-Road)**	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**	**On-Site Diesel (Off-Road)**	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**
Phase I	70	44	4	24	0	1	230	16	10
Phase II	31	0	2	24	0	1	90	0	4
Total	**101**	**44**	**6**	**48**	**0**	**2**	**320**	**16**	**13**

Construction Phase[3]	**Building Construction**			**Paving**			**Architectural Coating**		
	On-Site Diesel (Off-Road)	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**	**On-Site Diesel (Off-Road)**	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**	**On-Site Diesel (Off-Road)**	**Off-Site Diesel (Hauling/Vendor)**	**Off-Site Gas (Worker)**
Phase I	402	896	946	44	0	6	0	0	0
Phase II	326	353	738	14	0	2	1	0	10
Total	**728**	**1,249**	**1,684**	**58**	**0**	**8**	**1**	**0**	**10**

Notes:

[1] Fuel used for off-road, hauling, and vendor trips assumed to be diesel.

[2] Fuel used for worker trips assumed to be gasoline.

[3] $MTCO_2e$ rates from CalEEMod (3.0 Construction Emission Details).

[4] For CO2e emissions, see Chapter 13 (page 94); Conversion Ratios: Climate Registry, General Reporting Protocol, 2016.

Operational Fuel

Vehicle Type	Percent[1]	Annual VMT[2]	MGP[3]	Annual Fuel	Fuel Type
Passenger Cars	0.795	34,330,921	21.6	**1,589,395**	Gas
Light/Medium Trucks	0.180	7,773,039	17.2	451,921	Diesel
Heavy Trucks/Other	0.025	1,079,589	6.1	176,982	Diesel
Total	1.000	**43,183,549**		**628,903**	

Notes:

[1] Percent of vehicle trip distribution based on fleet mix from CalEEMod (5.9 Fleet Mix).

[2] Total annual operational VMT based on mitigated annual VMT from CalEEMod (5.9 Trip Summary Information).

[3] Average fuel economy derived from Department of Transportation.

[4] Total annual county fuel per EMFAC 2021 model of projected operational fuel usage.

APPENDIX C

BIOLOGICAL RESOURCES TECHNICAL REPORT

Biological Resources Technical Report

Euclid Mixed-Use Specific Plan
City of Ontario, California

FINAL REPORT



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CADRE Environmental

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INTRODUCTION

The following biological resources technical report describes a detailed assessment of potential sensitive natural resources located within and/or immediately adjacent to the 94.22-acre "Euclid Mixed-Use Specific Plan" project (Specific Plan Boundary). The report has been prepared to support compliance with the California Environmental Quality Act (CEQA) documentation including the preparation of an Initial Study (IS), Environmental Impact Report (EIR) and environmental review process conducted by the City of Ontario. As discussed below, the assessment included a thorough literature review, site reconnaissance characterizing existing conditions (including floral, faunal and dominant vegetation communities), impact analysis, and applicable standards and regulations to ensure impacts remain at a level below significance.

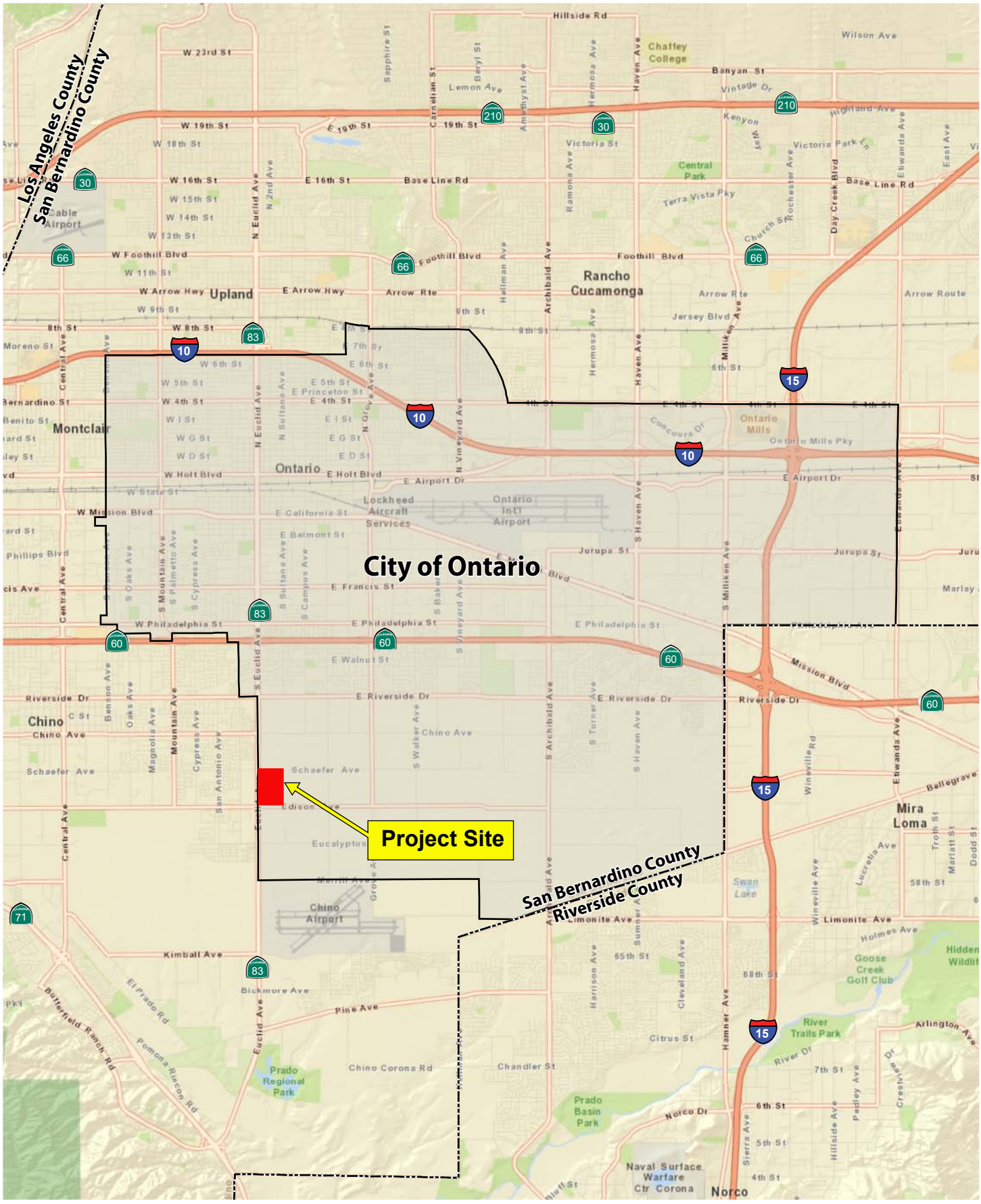
PROJECT LOCATION

The 70.04-acre project site (Project Site), 59.98-acres onsite, Assessor Parcel Numbers (APNs) 1053-071-01, -02, -03, -04, 1053-211-01, -02, 1053-281-08, 1053-081-01, -03, -04, and 10.06-acres offsite assessment area (right of ways) is located within the southwestern region of the City of Ontario, San Bernardino County, California, as shown in Figure 1, *Regional Location Map*, and Figure 2, *Project Site Map*. Specifically, the Euclid Mixed-Use Specific Plan extends north of Ontario Ranch Road, east of Euclid Avenue, south of Schaefer Avenue and west of Sultana Avenue.

The remaining parcels totaling 24.18-acres, located within the southwest region of the Specific Plan Boundary including APN's 1053-211-05, 1053-281-01, -02, -03, -04, and -07 were analyzed programmatically (Programmatic Assessment Area) based on aerial photographs and assessments from the parcel boundaries as shown in Figure 2, *Project Site Map*. To ensure that potential adverse effects to sensitive species and resources are reduced to a less than significant level, a focused biological resources assessment and impact analysis shall be conducted in the un-surveyed portion of the Specific Plan Boundary prior to approval of development within this region. In addition to completing CEQA review, any focused surveys and required mitigation measures shall be implemented prior to project approval and initiation of construction, **CM BIO-6** Programmatic Assessment Area CEQA Analysis.

PROJECT DESCRIPTION

The proposed action includes the development of thirteen (13) warehouse buildings totaling 957,595 square feet including associated offices, employee parking, and 365 trailer stalls (RGA, Office of Architectural Design).


Los Angeles County
San Bernardino County
Project Site
San Bernardino County
Riverside County
City of Ontario
Montclair
Upland
Rancho Cucamonga
Ontario
Chino
Chino Airport
Mira Loma
Norco
Prado Regional Park
Prado Basin Park
Ontario Int'l Airport
Lockheed Aircraft Services
Naval Surface Warfare Ctr Corona
Chaffey College
Central Park
Ontario Mills
Goose Creek Golf Club
River Trails Park
Swan Lake
Hillside Rd
Wilson Ave
Banyan St
Lemon Ave
Victoria St
Base Line Rd
Foothill Blvd
Arrow Rte
Arrow Route
Jersey Blvd
Terra Vista Pky
Ontario Mills Pky
E Airport Dr
E Holt Blvd
W Holt Blvd
E Philadelphia St
W Philadelphia St
E Riverside Dr
Riverside Dr
Mission Blvd
Jurupa St
Limonite Ave
Kimball Ave
Pine Ave
Chino Corona Rd
Chandler St
Norco Dr
Schaefer Ave
Chino Ave
Eucalyptus Ave
Bellegrave
Etiwanda Ave
Hamner Ave
Citrus St
Archibald Ave
Haven Ave
Milliken Ave
Vineville Rd
Day Creek Blvd
Rochester Ave
Hellman Ave
Ramona Ave
Hermosa Ave
Sapphire St
Carnelian St
Beryl St
Amethyst Ave
Vintage Dr
Kenyon
Highland Ave
East Ave
Victoria Park Ln
Church St
Concours Dr
Marlay
Phillips Blvd
Benson Ave
Oaks Ave
Magnolia Ave
Mountain Ave
Cypress Ave
San Antonio Ave
Euclid Ave
Central Ave
Turner Ave
Walker Ave
Harrison Ave
Cleveland Ave
Sumner Ave
Troth St
Marlatt St
Dodd St
Lucretia Ave
58th St
68th St
65th St
7th St
6th St
5th St
4th St
Holmes Ave
Arlington Ave
Pedley Ave
Hillside Ave
Sierra Ave
Crestview Dr
Butterfield Ranch Rd
El Prado Rd
Pomona Rincon Rd
Bluff St
Moreno St
Bernardino St
Benito St
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W State St
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E 7th St
E 6th St
E 5th St
E Princeton St
E 4th St
E I St
E G St
E D St
E Francis St
E Walnut St
E California St
E Belmont St
Cable Airport
N Euclid Ave
N 2nd Ave
N Sultana Ave
N Grove Ave
N Vineyard Ave
S Mountain Ave
S Palmetto Ave
S Cypress Ave
S Oaks Ave
S Sultana Ave
S Campus Ave
S Baker Ave
S Vineyard Ave
S Haven Ave
S Milliken Ave
S Archibald Ave
S Turner Ave
S Walker Ave
Merrill Ave
Grove Ave
Sapphire St
Edwanda Ave
Marlay
Swan Lake
Hidden Wildlife
Loma
Mira
Norco
Chino
Ontario
Upland
Montclair
Rancho Cucamonga

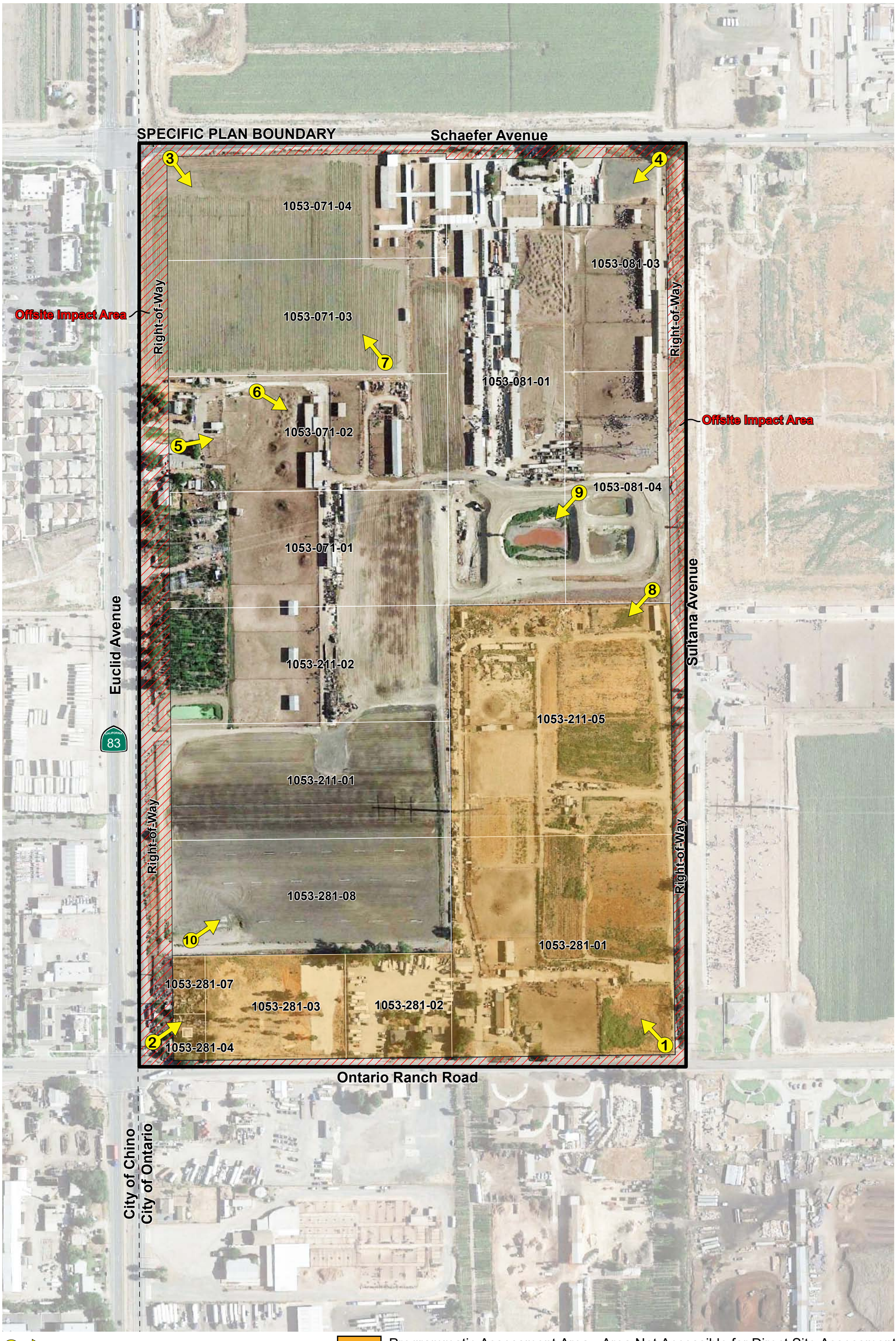


Figure 2 - Project Site Map

Biological Resources Technical Report

Euclid Mixed Use Specific Plan, City of Ontario, California

CADRE Environmental

N

1 inch = 250 feet

METHODOLOGY

The following section details the methods implemented prior to and during the reconnaissance survey conducted throughout the Project Site.

LITERATURE REVIEW

Existing biological resource conditions within and adjacent to the Project Site were initially investigated through review of pertinent scientific literature. Federal register listings, protocols, and species data provided by the United States Fish and Wildlife Service (USFWS) were also reviewed in conjunction with anticipated federally listed species potentially occurring within the region of the Project Site. The California Natural Diversity Database (CNDDB) (CDFW 2022a), a California Department of Fish and Wildlife (CDFW) Natural Heritage Division species account database, was also reviewed for all pertinent information regarding the locations of known occurrences of sensitive species in the vicinity of the property. In addition, numerous regional floral and faunal field guides were utilized in the identification of species and suitable habitats. Combined, the reviewed sources provided an excellent baseline from which to inventory the biological resources potentially occurring in the area. Other CDFW reports and publications consulted include the following:

- Special Animals (CDFW 2022b);
- State and Federally Listed Endangered and Threatened Animals of California (CDFW 2022c);
- Endangered, Threatened, and Rare Plants of California (CDFW 2022d); and
- Special Vascular Plants and Bryophytes List (CDFW 2022e).

FIELD SURVEY

A reconnaissance survey of the Project Site was conducted by Ruben Ramirez of Cadre Environmental on October 7th, 2022 in order to characterize and identify potential sensitive plant and wildlife habitats, and to establish the accuracy of the data identified in the literature search. Geologic and soil maps were examined to identify local soil types that may support sensitive taxa. Aerial photograph, topographic maps, vegetation and rare plant maps prepared for previous studies in the region were used to determine community types and other physical features that may support sensitive plants/wildlife, uncommon taxa, or rare communities that occur within or adjacent to the Project Site. Habitat assessments were conducted for, but not limited to, the following target species/groups.

- Delhi sands flower loving fly – Federally Endangered (FE)
- Coastal California gnatcatcher – Federally Threatened (FT)/State Species of Special Concern (SSC)
- Burrowing owl - SSC
- San Bernardino kangaroo rat – FE/SSC
- Common and sensitive bat species
- Sensitive plants

Vegetation Communities/Habitat Classification Mapping

Natural community names and hierarchical structure follows the "*Manual of California Vegetation*" (Sayer and Keeler-Wolf 2009) classification system, which has been refined and augmented where appropriate to better characterize the habitat types observed onsite. A general plant survey was conducted throughout the Project Site during the reconnaissance in a collective effort to identify all species occurring onsite.

All plants observed during the survey efforts were either identified in the field or collected and later identified using taxonomic keys. Plant taxonomy follows Hickman (1993). Scientific nomenclature and common names used in this report generally follow Roberts et al. (2004) or Baldwin et al. (2012) for updated taxonomy. Scientific names are included only at the first mention of a species; thereafter, common names alone are used.

Wildlife Resources Inventory

All animals identified during the reconnaissance survey by sight, call, tracks, scat, or other characteristic sign were documented. In addition to species actually detected, expected use of the site by other wildlife was derived from the analysis of habitats on the site, combined with known habitat preferences of regionally occurring wildlife species. Vertebrate taxonomy followed in this report is according to the Center for North American Herpetology (2022 for amphibians and reptiles), the American Ornithologists' Union (1988 and supplemental) for birds, and Baker et al. (2003) for mammals. Both common and scientific names are used during the first mention of a species; common names only are used in the remainder of the text.

Jurisdictional Resources Assessment

The Project Site was assessed for the presence/absence of United States Army Corps of Engineers (USACE), California Department of Fish and Wildlife (CDFW), and Regional Water Quality Control Board (RWQCB) jurisdictional resources. Non-wetland waters of the United States were assessed based on the limits of the Ordinary High-Water Mark (OHWM) as determined by erosion, the deposition of vegetation or debris, and changes in vegetation and soil characteristics. The assessment utilized the methodology for routine wetland determination according to the methods outlined in the USACE Wetland Delineation Manual (Environmental Laboratory 1987) and the Arid West Wetland Delineation Supplement and updated regulatory guidance letters (USACE 2008). Wetlands are identified by the presence of three characteristics: hydrophytic vegetation, wetland hydrology, and hydric soils. If any of these criteria were met, one or more transects were run to determine the extent of the wetland. Specifically, the presence of wetland hydrology was evaluated throughout the Project Site by recording the extent of observed surface flows, depth of inundation, depth to saturated soils, and depth to free water in the soil pits, where applicable. In addition, indicators of wetland or riverine hydrology were recorded, including water marks, drift lines, rack, debris, and sediment deposits, as warranted. Any indicators of hydric soils, such as redoximorphic features, buried organic matter, organic streaking, reduced soil conditions, gleyed or low-chroma soils, or sulfidic odor were also recorded.

The following section presents the existing conditions of the Project Site. The Project Site is characterized as 70.04-acres of heavily disturbed active dairy and agricultural facilities as shown in Figure 3, *Vegetation Communities Map*, Figures 4 to 8, *Current Project Site Photographs,* and outlined in Table 1, *Project Site Vegetation Community Acreages*. The Project Site is completely bordered by high traffic roads, commercial/residential development and active dairy and agricultural facilities.

The Soil Survey of the San Bernardino County Area has the following soils mapped within the boundary of the Project Site as shown on Figure 9, *Soils Association Map*:

- Hr – Hilmar loamy fine sand
- TuB – Tujunga loamy sand 0 to 5 percent slopes.

VEGETATION COMMUNITIES

Active Dairy

Approximately half of the Project Site has and continues to be utilized as an active dairy including dry lots, milking parlors/feed storage facilities and housing (Venegas Family Farm). These areas are either devoid of vegetation or dominated by ornamental, ruderal non-native and native species commonly detected in disturbed habitats including Palmer's amaranth (*Amaranthus palmeri*), summer cypress (*Bassia scoparia*), horseweed (*Erigeron canadensis*), Russian thistle (*Salsola tragus*), prostate knotweed (*Polygonum aviculare*), cheeseweed (*Malva parviflora*), red-stemmed filaree (*Erodium cicutarium*), castor bean (*Ricinus communis*), prickly lettuce (*Lactuca serriola*), Bermuda grass (*Cynodon dactylon*), barnyard grass (*Echinochloa crus-galli*), goose grass (*Eleusine indica*), wild oat (*Avena fatua*), foxtail barley (*Hordeum murinum*), ripgut brome (*Bromus diandrus*), Peruvian peppertree (*Schinus molle*), Bougainvillea (*Bougainvillea* sp.), pine (*Pinus* sp.), Mexican fan palm (*Washingtonia robusta*), and jacaranda (*Jacaranda* sp.). Several dairy effluent retention ponds are located onsite and are either devoid of vegetation or inundated with discharge. No riparian scrub, forest or woodland habitat is associated with these ponds.

Active Agriculture

Approximately half of the Project Site has and continues to be actively farmed including the current production of pumpkin (*Cucurbita* sp.) and field corn *(Zea mays*).

Disturbed

Disturbed regions of the Project Site are either devoid of vegetation (dirt roads and fallow fields) or dominated by the following species including golden crown beard (*Verbesina encelioides*), London rocket (*Sisymbrium irio*), milk thistle (*Silybum marianum*), Australian saltbush (*Atriplex semibaccata*), big saltbush (*Atriplex lentiformis*), spiny cocklebur (*Xanthium spinosum*), field bindweed (*Convolvulus arvensis*), common sow thistle (*Sonchus oleraceus*), and annual sunflower (*Helianthus annus*).

Developed

Developed regions of the Project Site include the existing roadways within the rights-of-way.

Ornamental (Eucalyptus)

Several blue gum (*Eucalyptus globulus*) and red gum trees (*Eucalyptus camaldulensis*) are located adjacent to the northeast and western Project Site boundaries.

Table 1.
Project Site Vegetation Community Acreages

Vegetation Community	Onsite Acres	Offsite Acres	Total Acres
Active Dairy	31.17	2.69	33.86
Active Agriculture	25.71	1.62	27.33
Disturbed	3.02	4.04	7.06
Developed	--	1.18	1.18
Ornamental (Eucalyptus)	0.08	0.53	0.61
TOTAL	**59.98**	**10.06**	**70.04**

Source: Cadre Environmental 2022.

GENERAL PLANT & WILDIFE SPECIES

All plant species documented within the Project Site are presented and listed in the previous section.

General wildlife species documented on site include white-faced ibis (*Plegadis chihi*), red-winged blackbird (*Agelaius phoeniceus*), red-tailed hawk (*Buteo jamaicensis*), turkey vulture (*Cathartes aura*), rock dove (*Columba livia*), American kestrel (*Falco sparverius*), northern mockingbird (*Mimus polyglottos*), Anna's hummingbird (*Calypte anna*), mourning dove (*Zenaida macroura*), black phoebe (*Sayornis nigricans*), Say's phoebe (*Sayornis saya*), western meadowlark (*Sturnella neglecta*), cliff swallow (*Petrochelidon pyrrhonota*), American crow (*Corvus brachyrhynchos*), Brewer's blackbird (*Euphagus cyanocephalus*), brown-headed cowbird (*Molothrus ater*), European starling (*Sturnus vulgaris*), house finch (*Haemorhous mexicanus*), white-crowned sparrow (*Zonotrichia leucophrys*) house sparrow (*Passer domesticus*), and desert cottontail rabbit (*Sylvilagus audubonii*).

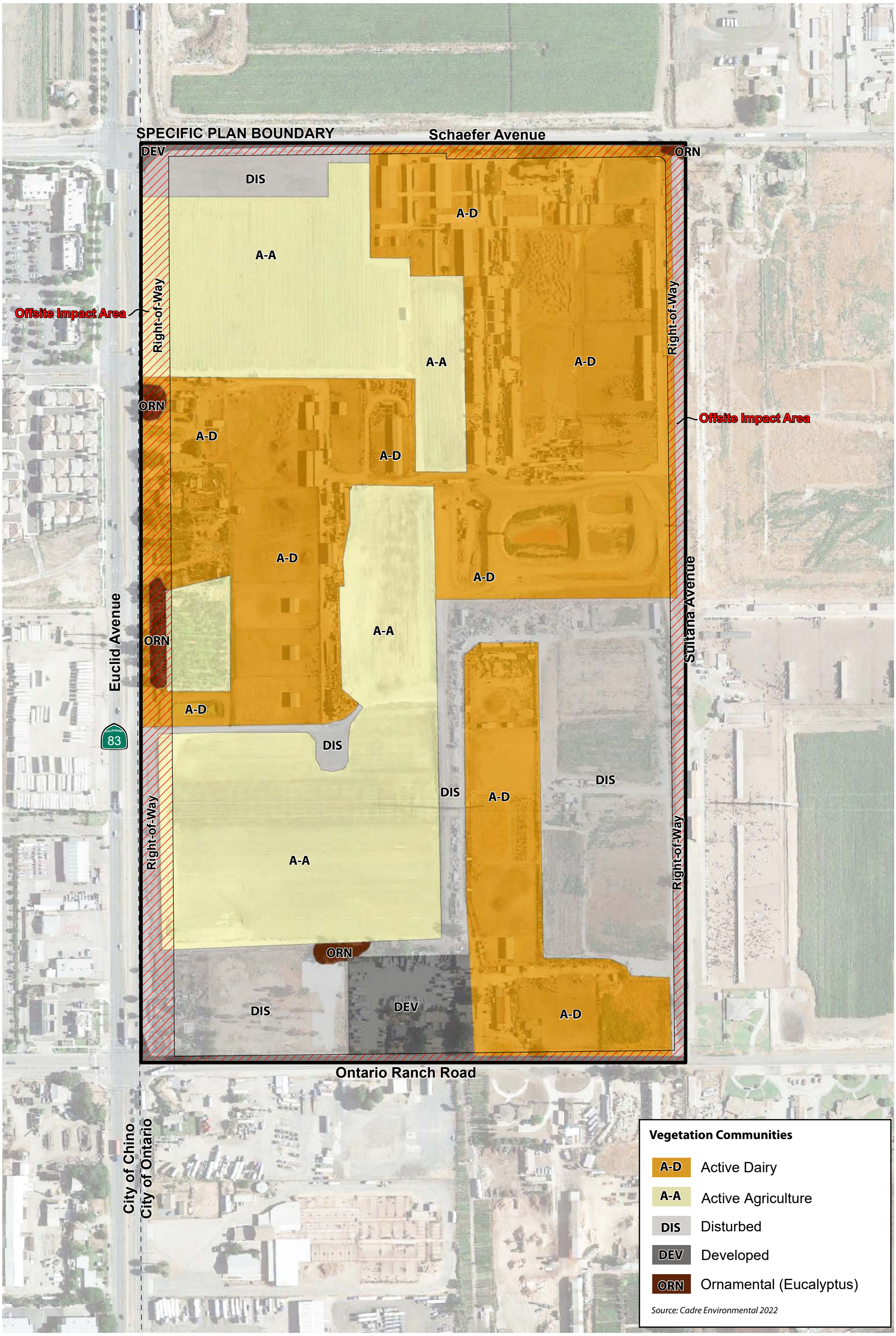


Figure 3 - Vegetation Communities Map
Biological Resources Technical Report
Euclid Mixed Use Specific Plan, City of Ontario, California

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1 inch = 250 feet



PHOTOGRAPH 1 - Northwest view of Project Site from southeast corner adjacent to Ontario Ranch Road.



PHOTOGRAPH 2 - Northeast view of Project Site from southwest corner adjacent to Ontario Ranch Road/Euclid Avenue intersection.

Refer to Figure 2 for Photographic Key Map

Figure 4 - Current Project Site Photographs
Biological Resources Technical Report
Euclid Mixed Use Specific Plan, City of Ontario, California

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PHOTOGRAPH 3 - Southeast view of Project Site from northwest corner adjacent to Euclid Avenue/Schaefer Avenue intersection.



PHOTOGRAPH 4 - Southwest view of Project Site from northeast corner adjacent to Schaefer Avenue.

Refer to Figure 2 for Photographic Key Map

Figure 5 - Current Project Site Photographs
Biological Resources Technical Report
Euclid Mixed Use Specific Plan, City of Ontario, California

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PHOTOGRAPH 5 - Active Dairy



PHOTOGRAPH 6 - Active Dairy

Refer to Figure 2 for Photographic Key Map

Figure 6 - Current Project Site Photographs
Biological Resources Technical Report
Euclid Mixed Use Specific Plan, City of Ontario, California

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PHOTOGRAPH 7 - Active Agriculture



PHOTOGRAPH 8 - Disturbed

Refer to Figure 2 for Photographic Key Map

Figure 7 - Current Project Site Photographs
Biological Resources Technical Report
Euclid Mixed Use Specific Plan, City of Ontario, California

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PHOTOGRAPH 9 - Active Dairy/Effluent Pond



PHOTOGRAPH 10 - Disturbed/Active Agriculture

Refer to Figure 2 for Photographic Key Map

Figure 8 - Current Project Site Photographs
Biological Resources Technical Report
Euclid Mixed Use Specific Plan, City of Ontario, California

CADRE Environmental

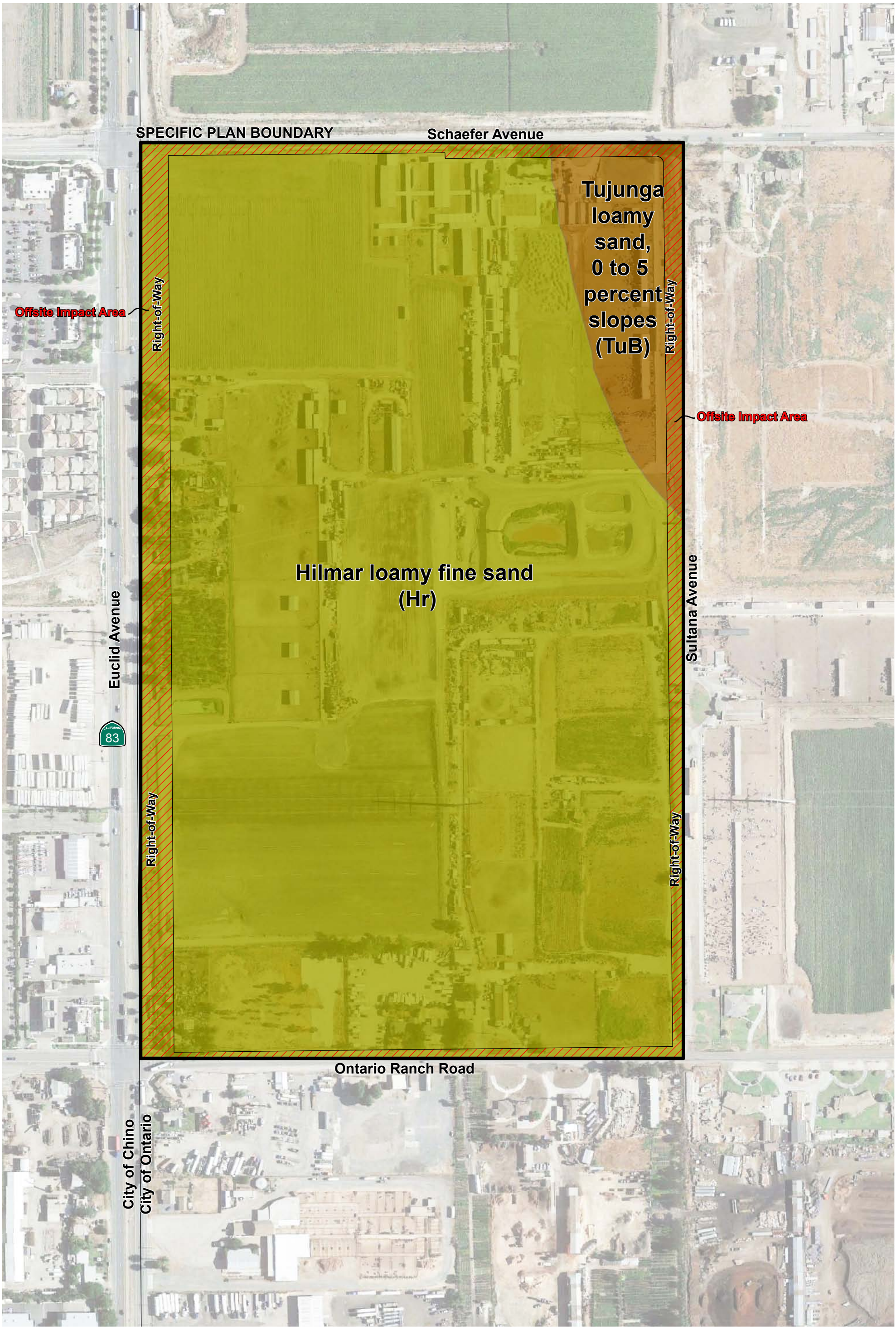


Figure 9 - Soils Association Map
Biological Resources Technical Report
Euclid Mixed Use Specific Plan, City of Ontario, California

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1 inch = 250 feet

JURISDICTIONAL WETLAND RESOURCES

No wetlands or jurisdictional resources regulated by the USACE, CDFW, or RWQCB were documented within the Project Site. The artificially created unvegetated dairy effluent retention ponds are isolated located in uplands and currently rotated in use resulting in a wet (inundated) and dry phase. All of the active retention ponds are devoid of wetland vegetation including but not limited to riparian scrub, forest or woodland habitat.

Impacts to water quality would be less than significant during both construction and operation following preparation of a Water Quality Management Plan (WQMP), Storm Water Pollution Prevention Plan (SWPPP) and compliance with National Pollutant Discharge Elimination System (NPDES) permit and San Bernardino County Regional Municipal Separate Stormwater Sewer System (MS4) code provisions.

SENSITIVE BIOLOGICAL RESOURCES

The following discussion describes the plant and wildlife species present, or potentially present within the property boundaries, that have been afforded special recognition by federal, state, or local resource conservation agencies and organizations, principally due to the species' declining or limited population sizes, usually resulting from habitat loss. Also discussed are habitats that are unique, of relatively limited distribution, or of particular value to wildlife. Protected sensitive species are classified by state and/or federal resource management agencies, or both, as threatened or endangered, under provisions of the state and federal endangered species act. Vulnerable or "at-risk" species that are proposed for listing as threatened or endangered (and thereby for protected status) are categorized administratively as "candidates" by the USFWS. CDFW uses various terminology and classifications to describe vulnerable species.

Sensitive biological resources are habitats or individual species that have special recognition by federal, state, or local conservation agencies and organizations as endangered, threatened, or rare. The CDFW, USFWS, and special groups like the California Native Plant Society (CNPS) maintain watch lists of such resources. For the purpose of this assessment sources used to determine the sensitive status of biological resources are:

Plants: USFWS (2022), CNDDB (CDFW 2022a), CDFW (2022d, 2022e), CNPS (2022), and Skinner and Pavlik (1994),

Wildlife: California Wildlife Habitat Relationships (2008), USFWS (2022), CNDDB (CDFW 2022a), and CDFW (2022b, 2022c).

Habitats: CNDDB (CDFW 2022a, 2022f).

FEDERAL PROTECTION AND CLASSIFICATIONS

The Federal Endangered Species Act of 1973 (FESA) defines an endangered species as "any species that is in danger of extinction throughout all or a significant portion of its

range...” Threatened species are defined as “any species which is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range.” Under provisions of Section 9(a)(1)(B) of the FESA it is unlawful to “take” any listed species. “Take” is defined as follows in Section 3(18) of the FESA: “...harass, harm, pursue, hunt, shoot, wound, kill, trap, capture, or collect, or to attempt to engage in any such conduct.” Further, the USFWS, through regulation, has interpreted the terms “harm” and “harass” to include certain types of habitat modification as forms of a “take.” These interpretations, however, are generally considered and applied on a case-by-case basis and often vary from species to species. In a case where a property owner seeks permission from a federal agency for an action that could affect a federally listed plant and animal species, the property owner and agency are required to consult with USFWS. Section 9(a)(2)(b) of the FESA addresses the protections afforded to listed plants. Recently, the USFWS instituted changes in the listing status of former candidate species. Former C1 (candidate) species are now referred to simply as candidate species and represent the only candidates for listing. Former C2 species (for which the USFWS had insufficient evidence to warrant listing at this time) and C3 species (either extinct, no longer a valid taxon or more abundant than was formerly believed) are no longer considered as candidate species. Therefore, these species are no longer maintained in list form by the USFWS, nor are they formally protected. However, some USFWS field offices have issued memoranda stating that former C2 species are henceforth to be considered Federal Species of Concern. This term is employed in this document but carries no official protections. All references to federally protected species in this report (whether listed, proposed for listing or candidate) include the most current published status or candidate category to which each species has been assigned by USFWS. For purposes of this assessment, the following acronyms are used for federal status species:

FE	Federal Endangered
FT	Federal Threatened
FPE	Federal Proposed Endangered
FPT	Federal Proposed Threatened
FC	Federal Candidate for Listing

The designation of critical habitat can also have a significant impact on the development of land designated as “*critical habitat*.” The FESA prohibits federal agencies from taking any action that will “*adversely modify or destroy*” critical habitat (16 U.S.C. § 1536(a)(2)). This provision of the FESA applies to the issuance of permits by federal agencies. Before approving an action affecting critical habitat, the federal agency is required to consult with the USFWS who then issues a biological opinion evaluating whether the action will “*adversely modify”* critical habitat. Thus, the designation of critical habitat effectively gives the USFWS extensive regulatory control over the development of land designated as critical habitat.

The Migratory Bird Treaty Act of 1918 (MBTA) makes it unlawful to “*take*” any migratory bird or part, nest, or egg of such bird listed in wildlife protection treaties between the United States and Great Britain, the Republic of Mexico, Japan, and the Union of Soviet States. For purposes of the MBTA, “*take*” is defined as to pursue, hunt, capture, kill, or possess or attempt to do the same.

The Bald Eagle and Golden Eagle Protection Act explicitly protects the bald eagle and golden eagle and imposes its own prohibition on any taking of these species. As defined in this act, take means to pursue, shoot, shoot at, poison, wound, kill, capture, trap, collect, or molest or disturb. Current USFWS policy is not to refer the incidental take of bald eagles for prosecution under the Bald Eagle and Golden Eagle Protection Act (16 U.S.C. 668-668d).

STATE PROTECTION AND CLASSIFICATIONS

California's Endangered Species Act (CESA) defines an endangered species as "...a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant which is in serious danger of becoming extinct throughout all, or a significant portion, of its range due to one or more causes, including loss of habitat, change in habitat, overexploitation, predation, competition, or disease." The State defines a threatened species as "...a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that, although not presently threatened with extinction, is likely to become an endangered species in the foreseeable future in the absence of the special protection and management efforts required by this chapter. Any animal determined by the commission as rare on or before January 1, 1985 is a threatened species." Candidate species are defined as "...a native species or subspecies of a bird, mammal, fish, amphibian, reptile, or plant that the commission has formally noticed as being under review by the department for addition to either the list of endangered species or the list of threatened species, or a species for which the commission has published a notice of proposed regulation to add the species to either list." Candidate species may be afforded temporary protection as though they were already listed as threatened or endangered at the discretion of the Fish and Game Commission. Unlike FESA, CESA does not include listing provisions for invertebrate species.

Article 3, Sections 2080 through 2085, of CESA addresses the taking of threatened or endangered species by stating "No person shall import into this state, export out of this state, or take, possess, purchase, or sell within this state, any species, or any part or product thereof, that the commission determines to be an endangered species or a threatened species, or attempt any of those acts, except as otherwise provided..." Under CESA, "take" is defined as "...hunt, pursue, catch, capture, or kill, or attempt to hunt, pursue, catch, capture, or kill." Exceptions authorized by the state to allow "take" require "...permits or memorandums of understanding..." and can be authorized for "...endangered species, threatened species, or candidate species for scientific, educational, or management purposes." Sections 1901 and 1913 of the California Fish and Game Code provide that notification is required prior to disturbance.

Additionally, some sensitive mammals and birds are protected by the State as Fully Protected Mammals or Fully Protected Birds, as described in the California Fish and Game Code, Sections 4700 and 3511, respectively. SSC ("special" animals and plants) listings include special status species, including all state and federal protected and candidate taxa, Bureau of Land Management (BLM) and US Forest Service (USFS) sensitive species, species considered to be declining or rare by the CNPS or National Audubon Society, and a selection of species which are considered to be under population stress but are not formally proposed for listing. This list is primarily a working document

for the CDFW's CNDDB project. Informally listed taxa are not protected per se, but warrant consideration in the preparation of biotic assessments. For some species, the CNDDB is only concerned with specific portions of the life history, such as roosts, rookeries, or nest sites.

For the purposes of this assessment, the following acronyms are used for State status species:

SE	State Endangered
ST	State Threatened
SCE	State Candidate Endangered
SCT	State Candidate Threatened
SFP	State Fully Protected
SP	State Protected
SR	State Rare
SSC	California Species of Special Concern
CWL	California Watch List

Nesting birds, including raptors, are protected under California Fish and Game Code Section 3503, which reads, “It is unlawful to take, possess, or needlessly destroy the nest or eggs of any bird, except as otherwise provided by this code or any regulation made pursuant thereto.” In addition, under California Fish and Game Code Section 3503.5, “it is unlawful to take, possess, or destroy any birds in the orders Falconiformes or Strigiformes (birds-of-prey) or to take, possess, or destroy the nest or eggs of any such bird except as otherwise provided by this code or any regulation adopted pursuant thereto”. Passerines and non-passerine land birds are further protected under California Fish and Game Code 3513. As such, CDFW typically recommends surveys for nesting birds that could potentially be directly (e.g., actual removal of trees/vegetation) or indirectly (e.g., noise disturbance) impacted by project-related activities. Disturbance during the breeding season could result in the incidental loss of fertile eggs or nestlings, or otherwise lead to nest abandonment. Disturbance that causes nest abandonment and/or loss of reproductive effort is considered “take” by CDFW.

The CNPS is a private plant conservation organization dedicated to the monitoring and protection of sensitive species in the State. This organization has compiled an inventory comprised of the information focusing on geographic distribution and qualitative characterization of rare, threatened, or endangered vascular plant species of California (Tibor 2001). The list serves as the candidate list for listing as threatened and endangered by CDFW. The CNPS has developed five categories of rarity (CRPR):

CRPR 1A	Presumed extinct in California
CRPR 1B	Rare, threatened, or endangered in California and elsewhere
CRPR 2A	Plants presumed extirpated in California but common elsewhere

CRPR 2B	Plants rare, threatened, or endangered in California but more common elsewhere
CRPR 3	Plants about which we need more information – a review list
CRPR 4	Species of limited distribution in California (i.e., naturally rare in the wild), but whose existence does not appear to be susceptible to threat

As stated by the CNPS:

> "*Threat Rank is an extension added onto the California Rare Plant Rank and designates the level of endangerment by a 1 to 3 ranking with 1 being the most endangered and 3 being the least endangered. A Threat Rank is present for all California Rare Plant Rank 1B's, 2's, 4's, and the majority of California Rare Plant Rank 3's. California Rare Plant Rank 4 plants are seldom assigned a Threat Rank of 0.1, as they generally have large enough populations to not have significant threats to their continued existence in California; however, certain conditions exist to make the plant a species of concern and hence be assigned a California Rare Plant Rank. In addition, all California Rare Plant Rank 1A (presumed extinct in California), and some California Rare Plant Rank 3 (need more information) plants, which lack threat information, do not have a Threat Rank extension."* (CNPS 2022)

0.1	Seriously threatened in California (over 80% of occurrences threatened / high degree and immediacy of threat)
0.2	Fairly threatened in California (20-80% occurrences threatened / moderate degree and immediacy of threat)
0.3	Not very threatened in California (<20% of occurrences threatened / low degree and immediacy of threat or no current threats known)

LOCAL PROTECTION AND CLASSIFICATIONS

The following Local Protection and Classifications sections are excerpted from The Ontario Plan 2050 (Placeworks 2022).

The City of Ontario Plan Environmental Resources Element contains goals and policies which pertain to the protection of biological resources in the City of Ontario:

Goal ER5 Protected high value habitat and farming and mineral resource extraction activities that are compatible with adjacent development.

Policy ER5-1 Habitat Conservation Areas. We support the protection of biological resources through the establishment restoration, and conservation of high-quality areas.

Policy ER5-2 Entitlement and Permitting Process. We comply with state and federal regulations regarding protected species.

Policy ER5-4 Transition of Farms. We protect both existing farms and sensitive uses around them as agricultural areas transition to urban uses.

City of Ontario Municipal Codes

Municipal Code, Volume II, Chapter 2

Title 10, Parks and Recreation, Chapter 2, Parkway Trees, of the City's Municipal Code provides provisions on the preservation, regulation on the maintenance and removal of parkway trees, and establishes types and the locations for planting parkway trees. Parkway is defined as "…that portion of any public street right-of-way between the right-of-way boundary line and the curb line, and also the area enclosed within the curb lines of a medial divider."

The property owner abutting a public right-of-way is responsible for watering any tree in the parkway and for trimming that can be done from the ground to preserve the neat appearance and non-obstructed use of the parkway; the City is responsible for all major pruning. Removal or relocation of any parkway tree requires prior authorization from the City Public Works Agency through a permit process, and planting a replacement tree, whenever feasible, is a condition on any permit issued by the City for the removal of a parkway tree. Alternatively, an in-lieu deposit may be accepted as an alternate to the actual planting of any required parkway tree based on a fair value established by the Public Facilities Manager (The Ontario Plan 2022).

Municipal Code, Section 6.05.020

Section 6.05.020, Tree Preservation Policy and Protection Measures, of the Ontario Development Code establishes policies and measures that will further the preservation, protection, and maintenance of established and healthy heritage trees within the City. A Heritage Tree is one that is designated for preservation as a tree of historic or cultural significance, or a tree of importance to the community due to any one of the following factors:

- It is one of the largest or oldest trees of species located within the City and has a trunk diameter of 18 inches or greater when measured at 54 inches above grade;
- It has a historical significance due to association with a historic building, site, street, person, or event;
- It is a defining landmark or significant outstanding feature of a neighborhood or district, typical of early Ontario Landscapes. This includes Camphor Tree (*Cinnamomum camphora*), Deodar Cedar (*Cedrus deodara*), London Planetree (*Platanus acerifolia*), Cork Oak (*Quercus suber*), Holly Oak (*Quercus ilex*), and California Pepper (*Schinus molle*);
- It is a Native Tree. This means that it is one of the following California native tree species with a trunk diameter of more than 8 inches, measured at 54 inches above natural grade: California Sycamore (*Platanus racemose*), Torrey Pine (*Pinus torreyana*), Coast Live Oak (*Quercus agrifolia*), Engelmann Oak (*Quercus engelmannii*), Valley Oak (*Quercus lobata*), or California Bay (*Umbellularia californica*).

Healthy Heritage Trees that are approved for removal shall be replaced with new trees with a total trunk diameter equal to the tree(s) removed, or as deemed appropriate by the Approve Authority based on lot size and available planting space. Replacement trees are to be in addition to the quantity of trees required for landscaping. The Approving Authority is responsible for reviewing the landscape plan and approving appropriate species for tree replacement (The Ontario Plan 2022).

A tree inventory will be required and prepared by a City approved certified arborist or qualified horticulturalist, to determine the presence/absence of Heritage Trees including assessment of health, structure, condition, and expected life span of all affected specimens.

Property proposed for development on which a Heritage Tree exists, shall require the submittal of a Tree Inventory and Preservation Plan prepared by a licensed landscape architect, horticulturalist, certified arborist, or other related professional. Said plan shall be submitted concurrent with a Development Plan or building permit request for alterations of a site, and shall be reviewed and approved by the Approving Authority for the corresponding application request.

The Tree Inventory and Preservation Plan shall show all existing on-site trees, and those existing trees on abutting lots and public rights-of-way with a canopy or root zone that extends onto the site or within 8 feet of a construction, staging or storage area, or graded site. Furthermore, the Tree Inventory and Preservation Plan shall identify Tree Protection Areas and trees requested to be removed, and shall show replacement trees as required by this Division.

Sphere of Influence General Plan Amendment, Final EIR, and Settlement Agreement

In January 1998, the Ontario City Council approved a general plan amendment (GPA) and associated Final EIR for the sphere of influence (SOI), which is now known as the Ontario Ranch (previously the New Model Colony (NMC)). The GPA designated Ontario Ranch for a range of urban and suburban uses, including residential, commercial, business park, industrial, and open space. Most of Ontario Ranch was then in agricultural use. The Final EIR for the GPA assessed the impacts on biological resources of the conversion of Ontario Ranch from agricultural uses to developed urban and suburban uses. Before mitigation, significant impacts were identified for waterfowl and waterfowl habitat, raptors and raptor habitat, and the Delhi Sands Flower-Loving Fly (DSFLF) Ontario Recovery Unit. The EIR included three mitigation measures for impacts to biological resources:

- Mitigation Measure BR-1 modified the general plan to require the creation of new waterfowl habitat and specified a mitigation ratio of 2:1 for each acre of such habitat lost. This is off-site mitigation in the Prado Basin.
- Mitigation Measure BR-2 stipulated that the City shall create a Waterfowl and Raptor Conservation Area (WRCA), and included requirements and definitions for it; mitigation is off-site in the Prado Basin.

- Mitigation Measure BR-3 required the City to cooperate with the USFWS in taking specified actions to mitigate impacts to the Delhi Sands Flower-Loving Fly Recovery Unit.

Subsequent to the 1998 adoption of the SOI GPA and EIR, a lawsuit was filed against the City of Ontario by the Endangered Habitats League and the Sierra Club, challenging the City's CEQA compliance and approval of the SOI GPA. A Settlement Agreement was reached and agreed to by all parties that set forth revised mitigation measures for potential impacts in the New Model Colony (referred to as Annexation Area 163 in the agreement) to the burrowing owl, the DSFLF, raptor foraging and wildlife habitat, loss of open space, actual and potential habitat and agricultural land, and sensitive (listed and non-listed) species. These measures will be in effect until all the developable acres in the Ontario Ranch reach full buildout, as determined by the City.

- Prior to issuance of grading permits, Ontario shall impose a $4,320 per net acre mitigation fee on proposed developments in Annexation Area 163 that require discretionary approval or permitting from the City.
- Ontario, in consultation with CDFW, will identify, through CEQA review, lands occupied by burrowing owl and suitable as long-term habitat. The City will require avoidance of those lands to maintain a viable territory and require long-term maintenance through dedication in fee or grant of easement to the Land Trust. If the site is not viable long-term habitat, the developer shall pay the mitigation fee and make provisions for relocation of the owls.
- Since habitat that benefits DSFLF can be expected to benefit burrowing owl, up to 25 percent of the mitigation fee maybe used by the City for DSFLF recovery.
- All mitigation fees collected shall be used for the above-described purposes and may be used to purchase property, conservation easements, or other land with long-term conservation value for the environmental impacts; enhance/restore lands with such values; maintain and operates these lands; and pay for related administrative costs (not to exceed 10 percent of the total fees).
- Land/easements dedicated, conveyed, or purchased to benefit wildlife, waterfowl, raptors, and/or burrowing owl must have long-term conservation value for those species and must be managed by the land trust. The parcels must be in the habitat area designated as part of the settlement agreement. Unacceptable properties are those that would otherwise be purchased by another entity or group as open space mitigation for environmental impacts.

City of Ontario Biological Resources Habitat Mitigation Fee

Since the Settlement Agreement, the City has established a habitat mitigation fee to cover potential environmental impacts to the Burrowing Owl, DSFLF, raptor foraging, loss of open space, and agricultural lands. Development impact fees for new development in Ontario Ranch were adopted on June 23, 2003, by the City Council. The Ontario Ranch development impact fees include a habitat mitigation fee of $4,320 per net acre for proposed residential, commercial, hotel and restaurant, office, and industrial development. Mitigation fees have been collected by the City and have been deposited into a trust fund to be used for the acquisition, restoration, rehabilitation, and maintenance of lands deemed to have long-term conservation value. Up to $500 of the fees may be used for DSFLF. In addition, current City procedure is to require a habitat assessment to

determine existing habitat and biological resources on proposed development sites. If the assessment determines that there is potential habitat for sensitive species, focused protocol surveys are required. If potential DSFLF habitat is present, two-year (consecutive) protocol surveys per the USFWS Interim General Survey Guidelines for DSFLF are required (The Ontario Plan 2022).

The land use plan for Ontario Ranch originally provided for establishment of the WRCA, a wetlands and habitat area near the confluence of the Cucamonga Creek and the Lower Deer Creek Channels. Creation of the WRCA as part of Ontario Ranch was intended to provide a concentrated area for wetlands that would receive storm drainage from the west. Funding for the environmental restoration of the existing 85-acre Lower Cucamonga flood control basin under the WRCA would have been provided through the USACE with matching funds from the City of Ontario. This conservation area plus acquisition of 145 acres of off-site mitigation land were intended to provide mitigation for impacts resulting from development of Ontario Ranch. However, under the conditions of the settlement agreement, the WRCA is no longer proposed (The Ontario Plan 2022).

In 2010, the Ontario City Council approved the selection of the Riverside Land Conservancy (today known as River and Land Conservancy) as the administrator of the habitat mitigation fees and to create a habitat program pursuant to the requirements of the Settlement Agreement between the City of Ontario, the Endangered Habitats League, and the Sierra Club. However, due to the economic downturn shortly after 2010, the contract between the City and the Riverside Land Conservancy was never ratified. It was anticipated that once development in Ontario Ranch began to commence, the City would ratify the contract (The Ontario Plan 2022).

In 2022, the City will be going out with a Request for Proposals (RFP) to select a non-profit land trust and/or organization specializing in habitat conservation. The selected non-profit and/or organization will be responsible for the administration of the habitat mitigation fees and creation of a habitat program pursuant to the requirements of the Settlement Agreement between the City of Ontario, the Endangered Habitats League, and the Sierra Club. In partnership with the CDFW, the City will work with the selected non-profit and/or organization to maintain an interactive mapping and current inventory of the burrowing owl occurrences and in the selection of adequate lands for passive relocation (The Ontario Plan 2022).

SENSITIVE HABITATS

As stated by CDFW:

> "*One purpose of the vegetation classification is to assist in determining the level of rarity and imperilment of vegetation types. Ranking of alliances according to their degree of imperilment (as measured by rarity, trends, and threats) follows NatureServe's Heritage Methodology, in which all alliances are listed with a G (global) and S (state) rank. For alliances with State ranks of S1-S3, all associations within them are also considered to be highly imperiled*". (CDFW 2022f)

No sensitive or undisturbed native habitats were documented within the Project Site. The Project Site is characterized as 70.04-acres of heavily disturbed active dairy and agricultural facilities

SENSITIVE PLANTS

Based on a review of the CNDDB, The Ontario Plan 2050 and existing conditions within and adjacent to the Project Site, a total of thirteen (13) sensitive plant species have potential to occur within the vicinity of the Project Site as presented in Table 2, *Sensitive Plant Species Assessment*.

Table 2.
Sensitive Plant Species Assessment

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
Nevin's barberry (*Berberis nevinii*) FE/SE CRPR 1B.1	Perennial evergreen shrub which generally blooms from February to June within chaparral, cismontane woodland, coastal scrub, and riparian scrub in sandy, gravelly substrates (CNPS 2022).	Not detected.
Plummer's mariposa-lily (*Calochortus plummerae*) CRPR 4.2	Perennial bulbiferous herb which generally blooms from May to June within chaparral, cismontane woodland, coastal scrub, lower montane coniferous forest, and grassland habitats with granite and rocky substrates (CNPS 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Lucky morning glory (*Calystegia felix*) CRPR 1B.1	Annual rhizomatous herb generally blooming from March to September within meadows, seeps and riparian scrub habitat (CNPS 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Parry's spineflower (*Chorizanthe parryi var. parryi*) CRPR 1B.1	Annual herb which generally blooms from April to June within chaparral, cismontane woodland, coastal scrub and grassland habitats with sandy and/or rocky openings. (CNPS 2022)	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
Slender-horned spineflower (*Dodecahema leptoceras*) CRPR 1B.1 FE/SE	Annual herb which generally blooms from April to June within chaparral, cismontane woodland and coastal scrub (alluvial fan) with sandy substrates. (CNPS 2022)	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Mesa horkelia (*Horkelia cuneata ssp. puberula*) CRPR 1B.1	Perennial herb which generally blooms from February to September within chaparral (maritime), cismontane woodland and coastal scrub with sandy or gravelly substrates. (CNPS 2022)	Not detected.
Robinson's pepper-grass (*Lepidium virginicum var. robinsonii*) CRPR 4.3	Annual herb which generally blooms from January to July within chaparral and coastal sage scrub habitats (CNPS 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Prostate vernal pool navarretia (*Navarretia prostrata*) CRPR 1B.2	Annual herb generally blooming from April to July within coastal scrub, meadows and seeps, valley and foothill grasslands and vernal pools (CNPS 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Brand's star phacelia (*Phacelia stellaris*) CRPR 1B.1	Annual herb generally blooming from March to June within coastal sage scrub and dune habitats (CNPS 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
White rabbit tobacco (*Pseudognaphalium leucocephalum)* CRPR 2B.2	Perennial herb generally blooming from July to December within chaparral, cismontane woodland, coastal scrub and riparian woodland habitats (CNPS 2022).	Not detected.
Salt spring checkerbloom (*Sidalcea neomexicana*) CRPR 2.2	Perennial herb which generally blooms from March to June within chaparral, coastal scrub, lower montane coniferous forest, Mojavean desert scrub, and playas within alkaline/mesic gravelly substrates (CNPS 20202.	Not detected.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
San Bernardino aster (*Symphyotrichum defoliatum*) CRPR 1B.2	Perennial rhizomatous herb generally blooming from July to December within various vegetation communities in associating with wetland substrates (ditches, streams and springs) (CNPS 2022).	Not detected.
Rigid fringepod (*Thysanocarpus rigidus*) CRPR 1B.2	Annual herb generally blooming from February to May within pinyon and juniper woodland habitats (CNPS 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.

California Native Plant Society (CNPS): California Rare Plant Rank (CRPR)
CRPR 1A – plants presumed extinct in California
CRPR 1B – plants rare, threatened, or endangered in California, but more common elsewhere
CRPR 2A – plants presumed extirpated in California but common elsewhere
CRPR 2B – plants rare, threatened, or endangered in California but more common elsewhere
CRPR 3 – plants about which we need more information, a review list
CRPR 4 – plants of limited distribution, a watch list
.1 – Seriously endangered in California
.2 – Fairly endangered in California
.3 – Not very endangered in California

Federal (USFWS) Protection and Classification
FE – Federally Endangered
FT – Federally Threatened
FC – Federal Candidate for Listing

State (CDFW) Protection and Classification
SE – State Endangered
ST – State Threatened

No suitable habitat for sensitive plant species including those listed as federal or state threatened/endangered was documented within the Project Site. No sensitive plant species listed in Table 2, *Sensitive Plant Species Assessment* or undisturbed native habitats were documented or expected to occur within the Project Site. The Project Site is characterized as 70.04-acres of heavily disturbed active dairy and agricultural facilities.

SENSITIVE WILDLIFE

Based on a review of the CNDDB, The Ontario Plan 2050 and existing site conditions, a total of fifty (50) sensitive invertebrate and wildlife species have the potential of occurring within the vicinity of the Project Site as presented in Table 3, *Sensitive Wildlife Species Assessment*.

Table 3.
Sensitive Wildlife Species Assessment

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
INVERTEBRATES		
Crotch bumble bee (*Bombus crotchii*) SC	Inhabits grasslands and shrublands and requires a hotter and drier environment than other bumblebee species (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable food sources.
Delhi Sands flower-loving fly (*Rhaphiomidas terminatus abdominalis*) FE	Restricted to Delhi sand formations in Riverside and San Bernardino Counties.	No Potential. No Delhi soils mapped onsite, as shown in Figure 9, *Soils Association Map*.
AMPHIBIANS		
Western spadefoot (*Spea hammondii*) SSC	Primary habitat for this species includes suitable breeding habitat below 1500 meters (i.e., vernal pools or other standing water that is free of exotic species) with secondary habitats including adjacent chaparral, sage scrub, grassland, and alluvial scrub habitats.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed soils and continuous agricultural activities conducted throughout the Project Site.
REPTILES		
Southern California legless lizard (*Anniella stebbinsi*) SSC	Broadleaved upland forest, chaparral, coastal dunes, and coastal scrub. Occurs in sandy or loose loamy soils under sparse vegetation, generally in moist, loose soil (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
California glossy snake (*Arizona elegans occidentalis*) SSC	Generalist reported from a range of scrub and grassland habitats, often with loose or sandy soils (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Coastal western whiptail (*Aspidoscelis tigris stejnegeri*) SSC	The coastal western whiptail occurs in a wide variety of habitats including coastal sage scrub, desert scrub, Riversidean alluvial fan scrub, woodlands, grasslands, playas, and respective ecotones between these habitats.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
San Bernardino ringneck snake (*Diadophis punctatus modestus*)	Chaparral, coastal sage scrub, grassland, riparian, and woodlands (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Western pond turtle (*Actinemys marmorata*) SSC	The western pond turtle inhabits slow moving permanent or intermittent streams, small ponds, small lakes, reservoirs, abandoned gravel pits, permanent and ephemeral shallow wetlands, stock ponds, and sewage treatment lagoons (Rathbun *et al*., 1992; Holland, 1994). Pools are the preferred habitat within streams (Bury, 1972,)	Not Detected. Not expected to occur onsite based on a lack of suitable undisturbed basking sites and permanent water.
Coast horned lizard (*Phrynosoma blainvillii*) SSC	Open areas of sandy soil with coastal sage scrub, chaparral, grassland, riparian, and washes and watercourses (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Coast patch-nosed snake (*Salvadora hexalepis virgultea*) SSC	The coast patch-nosed snake prefers brushy coastal sage scrub/ chaparral habitats.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation or soils.
Two-striped gartersnake (*Thamnophis hammondii*) SSC	Marsh and swamp, riparian scrub, riparian woodland, and wetland. Highly aquatic, found in or near permanent fresh water. Often along streams with rocky beds and riparian growth (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation, soils or permanent water.
BIRDS		
Cooper's hawk (*Accipiter cooperii*) SSC	Cooper's hawk is most commonly found within or adjacent to riparian/oak forest and woodland habitats. This uncommon resident of California increases in numbers during winter migration.	Low Potential – May occasionally forage onsite and breed within the mature Eucalyptus trees.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
Sharp-shinned hawk (*Accipiter striatus*) CWL	Potential habitat for the sharp-shinned hawk includes montane coniferous forest for potential breeding areas and riparian scrub, woodland, and forest habitat, oak woodland and forest, chaparral, coastal sage scrub, desert scrub, and Riversidean alluvial fan sage scrub for foraging.	Low Potential – May occasionally forage onsite.
Tri-colored blackbird (*Agelaius tricolor*) ST/SSC	Marshes and grasslands. Breeding colonies require nearby water, nesting substrate, and open range foraging habitat of natural grassland, woodland, or agricultural cropland (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of nesting habitat (cattail, rushes, and willows) within or adjacent to the Project Site.
Golden eagle (*Aquila chrysaetos*) CWL, SFP	Within southern California, the species prefers grasslands, brushlands (coastal sage scrub and chaparral), deserts, oak savannas, open coniferous forests, and montane valleys (Garrett and Dunn 1981)	Low Potential – May occasionally forage onsite.
Great egret (*Ardea alba*) Nesting Colony	Wet areas, fields, margins of open water.	Moderate Potential – Expected to occasionally forage onsite but not breed.
Great blue heron (*Ardea herodias*) Nesting Colony	Wet areas, fields, margins of open water.	Moderate Potential – Expected to occasionally forage onsite but not breed.
Burrowing owl (*Athene cunicularia)* SSC	The burrowing owl uses predominantly open land, including grassland, agriculture, playa, sparse coastal sage scrub, desert scrub habitats. Some breeding burrowing owls are year-round residents and additional individuals from the north may winter throughout the region.	Low Potential – Suitable burrows larger than 4 inches in diameter and foraging habitat documented within and east of the Project Site.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
Ferruginous hawk (*Buteo regalis*) CWL	Grasslands and other open terrain of the plains and foothills. Wintering species. Primarily open fields with low vegetation (Placeworks 2022).	Low Potential – May occasionally forage onsite.
Swainson's hawk (*Buteo swainsoni*) ST	Grasslands and other open terrain (Placeworks 2022).	Low Potential – May occasionally forage onsite.
Mountain plover (*Charadrius montanus*) SSC	Dry upland prairies and plains, semidesert, bare dirt fields (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation.
Northern harrier (*Circus cyaneus*) SSC	The northern harrier frequents open wetlands, wet/lightly grazed pastures, fields, dry uplands/prairies, mesic grasslands, drained marshlands, croplands, meadows, grasslands, open rangelands, fresh and saltwater emergent wetlands.	Observed.
Western yellow-billed cuckoo (*Coccyzus americanus occidentalis*) FT/SE	Riparian. Uncommon to rare summer resident of valley foothill and desert riparian habitats (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed riparian scrub, forest or woodland vegetation.
Snowy egret (*Egretta thula*) Nesting Colony	Wet areas, fields, margins of open water (Placeworks 2022).	Moderate Potential – Expected to occasionally forage onsite but not breed.
White-tailed kite (*Elanus leucurus*) SFP	The white-tailed kite is found in riparian, oak woodlands adjacent to large open spaces including grasslands, wetlands, savannahs and agricultural fields. This non-migratory bird species occurs throughout the lower elevations of California and commonly nests in coast live oaks (Unitt 2004).	Low Potential – May occasionally forage onsite.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
California horned lark (*Eremophila alpestris actia*) CWL	Variety of open habitats, usually where trees and large shrubs are absent (Placeworks 2022).	Moderate Potential – Expected to occasionally forage and breed onsite.
Merlin (*Falco columbarius*) CWL	Grasslands, coastal sage scrub and estuaries, windrows, open fields (Placeworks 2022).	Low Potential – May occasionally forage onsite.
Prairie falcon (*Falco mexicanus*) CWL	Habitat use of the prairie falcon includes annual grasslands to alpine meadows. The prairie falcon is associated primarily with perennial grasslands, savannahs, rangeland, some agricultural fields during the winter season, and desert scrub areas, all typically dry environments of western North American where there are cliffs or bluffs for nest sites (Brown and Amadon 1968)	Low Potential – May occasionally forage onsite.
American peregrine falcon (*Falco peregrinus anatum*) SFP	Throughout the species' range, peregrine falcons are found in a large variety of open habitats, including tundra, marshes, seacoasts, savannahs and high mountains (AOU 1998)	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed vegetation.
Loggerhead shrike (*Lanius ludovicianus*) SSC	This species of shrike hunts in open or grassy areas and nests in large chaparral shrubs such as ceanothus and lemonade berry.	Low Potential – May occasionally forage onsite.
California gull (*Larus californicus*) CWL	Nearly all types of fresh and salt water, cropland, landfills, refuse areas, open lawns (Placeworks 2022).	Moderate Potential – Expected to occasionally forage onsite.
California black rail (*Laterallus jamaicensis coturniculus*) ST/SFP	Brackish marsh, freshwater marsh, marsh and swamp, salt marsh, wetland. Inhabits freshwater marshes, wet meadows and shallow margins of saltwater	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
	marshes bordering large bays (Placeworks 2022).	
Long-billed curlew (*Numenius americanus*) CWL	Coastal estuaries, upland herbaceous areas,5 croplands, wet areas, open fields, shores of open water (Placeworks 2022).	Moderate Potential – Expected to occasionally forage onsite.
Double-crested cormorant (*Nannopterum auritum*) CWL	Lakes, fresh, salt, and estuarine waters (Placeworks 2022).	Moderate Potential – Expected to occasionally forage onsite.
White-faced ibis (*Plegadis chihi*) CWL	Freshwater marshes and brackish areas (Placeworks 2022).	Observed.
Coastal California gnatcatcher (*Polioptila californica californica*) FT/SSC	The coastal California gnatcatcher is a non-migratory bird species that primarily occurs within sage scrub habitats in coastal southern California dominated by California sagebrush.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats including coastal sage scrub and associations.
MAMMALS		
Pallid bat (*Antrozous pallidus*) SSC	Chaparral, coastal scrub, desert wash, Great Basin grassland, Great Basin scrub, Mojavean desert scrub, riparian woodland, Sonoran desert scrub, upper montane coniferous forest, and valley and foothill grassland. Oak and grassland ecotones. Prefers foraging in the open. Roosts in attics or rock cracks; in the open, near foliage at night (Placeworks 2022).	Low Potential. Expected to occasionally forage onsite.
Northwestern San Diego pocket mouse (*Chaetodipus fallax fallax*) SSC	The northwestern San Diego pocket mouse occurs in coastal sage, upland sage scrubs, and alluvial fan sage scrub, sage scrub/grassland ecotones, chaparral, and desert scrubs at all elevations up to 6,000 feet.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats including coastal sage scrub and associations.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
Townsend's big-eared bat (*Corynorhinus townsendii*) SSC	A wide variety of habitats including woodlands and arid grasslands. Roosts in mines and caves (Placeworks 2022).	Low Potential. Expected to occasionally forage onsite.
San Bernardino kangaroo rat (*Dipodomys merriami parvus*) FE/SSC	Prefers alluvial scrub, coastal sage scrub habitats with sandy and gravelly substrates.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats including Riversidean alluvial fan sage scrub and associations.
Stephens' kangaroo rat (*Dipodomys stephensi*) FE/ST	The Stephens' kangaroo rat is found almost exclusively in open grasslands or sparse shrublands with cover of less than 50 percent during the summer.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.
Western mastiff bat (*Eumops perotis californicus*) SSC	Roosts in rocky areas and forages in grassland, shrublands, and woodlands.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.
Western yellow bat (*Lasiurus xanthinus*) SSC	Roosts in the skirts of palm trees and forages in adjacent habitats.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.
San Diego black-tailed jackrabbit (*Lepus californicus bennettii*) SSC	The San Diego black-tailed jackrabbit in open habitats, primarily including grasslands, sage scrub, alluvial fan sage scrub, and Great Basin sage scrub.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.
Western small-footed myotis (*Myotis ciliolabrum*)	Feeds among trees or over brush. Roosts in caves, mines, and in cliff or rock openings (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.
Yuma myotis (*Myotis yumanensis*)	Water and wooded canyon bottoms. Roosts in caves and abandoned buildings (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.
San Diego desert woodrat (*Neotoma lepida intermedia*) SSC	Riversidean and coastal sage scrub, chaparral and nonnative grasslands. Shrub and desert habitats, primarily associated with rock outcroppings, boulders, cacti, or areas of	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.

Species Name (*Scientific Name*) Status	**Habitat Description**	**Comments**
	dense undergrowth (Placeworks 2022).	
Pocketed free-tailed bat (*Nyctinomops femorosaccus*) SSC	Desert habitats. Roosts in rock crevices in cliffs (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.
Big free-tailed bat (*Nyctinomops macrotis*) SSC	Desert habitats. Roosts in rock crevices in cliffs (Placeworks 2022).	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.
Los Angeles pocket mouse (*Perognathus longimembris brevinasus*) SSC	Low elevation grassland alluvial sage scrub and coastal sage scrub habitats.	No Potential. Not expected to occur onsite based on a lack of suitable undisturbed habitats.

Federal (USFWS) Protection and Classification
FE – Federally Endangered
FT – Federally Threatened
FC – Federal Candidate for Listing

State (CDFW) Protection and Classification
SE – State Endangered
SSC – State Species of Special Concern
CWL – California Watch List
SFP – State Fully Protected
SC – State Candidate for Listing

No suitable breeding habitat for federal or state threatened/endangered species was documented within the Project Site. However, the 70.04-acres of heavily disturbed active dairy and agricultural facilities provide primarily low to moderate likelihood of occurrence (foraging habitat) for the following sensitive or locally monitored species:

- Cooper's hawk (*Accipiter cooperii*), SSC
- Sharp-shinned hawk (*Accipiter striatus*), CWL
- Golden eagle (*Aquila chrysaetos*), CWL, SFP
- Great egret (*Ardea alba*), Nesting Colony
- Great blue heron (*Ardea herodias*), Nesting Colony
- Burrowing owl (*Athene cunicularia),* SSC
- Ferruginous hawk (*Buteo regalis*), CWL
- Swainson's hawk (*Buteo swainsoni*), ST
- Northern harrier (*Circus cyaneus*), SSC
- Snowy egret (*Egretta thula*), Nesting Colony
- White-tailed kite (*Elanus leucurus*), SFP
- California horned lark (*Eremophila alpestris actia*), CWL
- Merlin (*Falco columbarius*), CWL
- Prairie falcon (*Falco mexicanus*), CWL
- Loggerhead shrike (*Lanius ludovicianus*), SSC

- California gull (*Larus californicus*), CWL
- Long-billed curlew (*Numenius americanus*), CWL
- Double-crested cormorant (*Nannopterum auritum*), CWL
- White-faced ibis (*Plegadis chihi*), CWL
- Pallid bat (*Antrozous pallidus*), SSC
- Townsend's big-eared bat (*Corynorhinus townsendii*), SSC
- Western mastiff bat (*Eumops perotis californicus*), SSC

The Project Site does not occur within or adjacent to a USFWS designated critical habitat for any federally listed threatened or endangered species.

JURISDICTIONAL WETLAND RESOURCES

No wetlands or jurisdictional resources regulated by the USACE, CDFW, or RWQCB were documented within the Project Site. The artificially created unvegetated dairy effluent retention ponds are isolated, located in uplands and currently rotated in use resulting in a wet (inundated) and dry phase. All of the active retention ponds are devoid of wetland vegetation including but not limited to riparian scrub, forest or woodland habitat.

Impacts to water quality would be less than significant during both construction and operation following preparation of a WQMP, SWPPP and compliance with NPDES permit and San Bernardino County Regional MS4 code provisions.

ENVIRONMENTAL IMPACTS

The following section includes an analysis of the direct and/or indirect impacts of the proposed action on sensitive biological resources. This analysis characterizes the project related activities that are anticipated to adversely impact the species, and when feasible, quantifies such impacts. Direct effects are defined as actions that may cause an immediate effect on the species or its habitat, including the effects of interrelated actions and interdependent actions. Indirect effects are caused by or result from the proposed actions, are later in time, and are reasonably certain to occur. Indirect effects may occur outside of the area directly affected by the proposed action.

THRESHOLD OF SIGNIFICANCE

The environmental impacts relative to biological resources are assessed using impact significance criteria which mirror the policy statement contained in the CEQA at Section 21001 (c) of the Public Resources Code. This section reflects that the legislature has established it to be the policy of the state to:

> "*Prevent the elimination of fish and wildlife species due to man's activities, ensure that fish and wildlife populations do not drop below self-perpetuating levels, and preserve for future generations representations of all plant and animal communities*…"

The following definitions apply to the significance criteria for biological resources:

- "*Endangered*" means that the species is listed as endangered under state or federal law.

- "*Threatened*" means that the species is listed as threatened under state or federal law.

- "*Rare*" means that the species exists in such small numbers throughout all or a significant portion of its range that it may become endangered if its environment worsens.

- "*Region*" refers to the area within southern California that is within the range of the individual species.

- "*Sensitive habitat*" refers to habitat for plants and animals (1) which plays a special role in perpetuating species utilizing the habitat on the property, and (2) without which there would be substantial danger that the population of that species would drop below self-perpetuating levels.

- "*Substantial effect*" means significance loss or harm of a magnitude which, based on current scientific data and knowledge, (1) would cause a species or a native plant or animal community to drop below self-perpetuating levels on a statewide or regional basis or (2) would cause a species to become threatened or endangered.

Also, the determination of impacts has been made according to the federal definition of "*take*". FESA prohibits the "*taking*" of a member of an endangered or threatened wildlife species or removing, damaging, or destroying a listed plant species by any person (including private individuals and private or government entities). FESA defines "*take*" as "*to harass, harm, pursue, hunt, shoot, would, kill, trap, capture or collect*" an endangered or threatened species, or to attempt to engage in these activities.

DIRECT IMPACTS

Specifically, the biological resources assessment report addresses the following CEQA Environmental Checklist items.

Environmental Issues	**Potentially Significant Impact**	**Less than Significant with Mitigation**	**Less than Significant Impact**	**No Impact**
Would the Project:				
a) Have a substantial adverse effect, either directly or through habitat modification, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?		**X**		

Environmental Issues	Potentially Significant Impact	Less than Significant with Mitigation	Less than Significant Impact	No Impact
b) Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by the California Department of Fish and Wildlife or U.S. Fish and Wildlife Service?		**X**		
c) Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the Clean Water Act (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?				**X**
d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?		**X**		
e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?		X		
f) Conflict with the provisions of an adopted Habitat Conservation Plan, Native Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?				**X**

a) Have a substantial adverse effect, either directly or through habitat modifications, on any species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS?

Less than Significant with Mitigation. The 70.04-acre proposed project would not have a substantial adverse effect, either directly or through habitat modifications, on any plant species identified as a candidate, sensitive, or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS. No native undisturbed suitable habitat, soils or sensitive plant species observations were documented or expected to occur within the Project Site as outlined in Table 2. *Sensitive Plant Species Assessment*. Therefore, no mitigation is required or proposed.

The 70.04-acre proposed project may result in a substantial adverse effect, either directly or through habitat modifications, on wildlife species identified as a candidate, sensitive,

or special status species in local or regional plans, policies, or regulations, or by the CDFW or USFWS outlined in Table 3, *Sensitive Wildlife Species Assessment*. Specifically, two sensitive species including the northern harrier (SSC) and white-faced ibis (CWL) were documented within the Project Site. Potential impacts to foraging and nesting habitat for these species would be mitigated to a level of less than significant following implementation of Mitigation Measure **MM BIO-1**: City of Ontario Biological Resources Habitat Mitigation Fee, and Conservation Measure **CM BIO-3**: Nesting Bird and Raptor Preconstruction Surveys.

Suitable foraging and nesting habitat for the Cooper's hawk (SSC) was documented within the Project Site. Potential impacts to foraging and nesting habitat for this species would be mitigated to a level of less than significant following implementation of Mitigation Measure **MM BIO-1**: City of Ontario Biological Resources Habitat Mitigation Fee, and Conservation Measure **CM BIO-3**: Nesting Bird and Raptor Preconstruction Surveys.

Suitable foraging habitat for the sharp-shinned hawk (CWL), golden eagle (CWL, SFP), great egret, great blue heron, ferruginous hawk (CWL), snowy egret, white-tailed kite (SFP), California horned lark (CWL), Swainson's hawk (ST), merlin (CWL), prairie falcon (CWL), loggerhead shrike (SSC), California gull (CWL), long-billed curlew (CWL), and double-crested cormorant (CWL) was documented onsite within the agricultural fields and artificially created unvegetated dairy effluent retention ponds. Potential impacts to foraging habitat for these species would be mitigated to a level of less than significant following implementation of Mitigation Measure **MM BIO-1**: City of Ontario Biological Resources Habitat Mitigation Fee, and Conservation Measure **CM BIO-3**: Nesting Bird and Raptor Preconstruction Surveys.

Suitable burrows larger than 4-inches in diameter and foraging habitat for the burrowing owl (SSC) were documented within and adjacent (east) of the Project Site. Potential impacts to refugia, nesting and foraging habitat for this species would be mitigated to a level of less than significant following implementation of Conservation Measure **CM-BIO-4:** Preconstruction Burrowing Owl Surveys.

Suitable foraging and roosting habitat for the following bat species including pallid bat (SSC), Townsend's big-eared bat (SSC), and western mastiff bat (SSC) was documented onsite. Potential impacts to foraging habitat for these species would be mitigated to a level of less than significant following implementation of Mitigation Measure **MM BIO-5**: Focused Bat Survey.

b) *Have a substantial adverse effect on any riparian habitat or other sensitive natural community identified in local or regional plans, policies, regulations, or by CDFW or USFWS*?

Less than Significant with Mitigation. A total of 70.04 acres of vegetation communities will be directly impacted as a result of project implementation as summarized in Table 4, Project Site *Vegetation Community Impacts,* and illustrated on Figure 10*, Vegetation Communities Impact Map*. No riparian (scrub, forest, woodland), sensitive or undisturbed native/natural habitats were documented within or adjacent to the Project Site. The Project Site is characterized as heavily disturbed active dairy and agricultural facilities. Several artificially created dairy effluent retention ponds are located onsite and are either

devoid of vegetation of inundated with discharge. No riparian scrub, forest or woodland habitat is associated with these ponds. Permanent impacts to agricultural lands and artificially created dairy effluent retention ponds would be mitigated to a level of less than significant following implementation of Mitigation Measure **MM BIO-1**: City of Ontario Biological Resources Habitat Mitigation Fee.

Table 4.
Project Site Vegetation Community Impacts

Vegetation Community	Onsite Acres	Offsite Acres	Total Acres	Impacts Acres
Active Dairy	31.17	2.69	33.86	33.86
Active Agriculture	25.71	1.62	27.33	27.33
Disturbed	3.02	4.04	7.06	7.06
Developed	--	1.18	1.18	1.18
Ornamental (Eucalyptus)	0.08	0.53	0.61	0.61
TOTAL	**59.98**	**10.06**	**70.04**	**70.04**

Source: Cadre Environmental 2022.

c) *Have a substantial adverse effect on federally protected wetlands as defined by Section 404 of the CWA (including, but not limited to, marsh, vernal pool, coastal, etc.) through direct removal, filling, hydrological interruption, or other means?*

No Impact. No wetlands or jurisdictional resources regulated by the USACE, CDFW, or RWQCB were documented within the Project Site. The artificially created unvegetated dairy effluent retention ponds are isolated, located in uplands and currently rotated in use resulting in a wet (inundated) and dry phase. All of the active retention ponds are devoid of wetland, riparian scrub, forest or woodland habitats.

Impacts to water quality would be less than significant during both construction and operation following preparation of a Water Quality Management Plan, Storm Water Pollution Prevention Plan and compliance with National Pollutant Discharge Elimination System permit and San Bernardino County Regional Municipal Separate Stormwater Sewer System (MS4) code provisions. Therefore, no mitigation is required or proposed.

d) Interfere substantially with the movement of any native resident or migratory fish or wildlife species or with established native resident or migratory wildlife corridors, or impede the use of native wildlife nursery sites?

Less than Significant with Mitigation. The Project Site is completely bordered by high traffic roads, commercial/residential development, active dairy/agricultural facilities and does not represent a wildlife movement corridor or route between open space habitats. Therefore, no mitigation is required or proposed.

The Project Site possess vegetation including trees and shrubs expected to potentially provide nesting habitat for raptors and migratory birds protected under the CDFG Codes. Measures for potential direct/indirect impacts to common and sensitive bird and raptor species will require compliance with the CDFG Code Section 3503. Construction outside the nesting season (between September 1st and January 31st) does not require preconstruction nesting bird surveys. However, if construction is proposed between

February 1st and August 31st, a qualified biologist will conduct a preconstruction nesting bird and raptor survey(s) no more than three (3) days prior to initiation of grading to document the presence or absence of nesting birds or raptors within or directly adjacent (200 feet, up to 500 feet for raptors) to the Project Site.

Loss of an active nest would be considered a potentially significant impact. Impacts to raptor foraging and potential nesting bird habitat would be reduced to less than significant with the implementation of Conservation Measure **CM BIO-3**: Nesting Bird and Raptor Preconstruction Surveys.

e) Conflict with any local policies or ordinances protecting biological resources, such as a tree preservation policy or ordinance?

Less than Significant with Mitigation. Several mature trees are located within and adjacent to the Project Site. Therefore, a tree inventory will be required and prepared by a City approved certified arborist or qualified horticulturalist, to determine the presence/absence of Heritage Trees including assessment of health, structure, condition, and expected life span of all affected specimens.

Property proposed for development on which a Heritage Tree exists, shall require the submittal of a Tree Inventory and Preservation Plan prepared by a licensed landscape architect, horticulturalist, certified arborist, or other related professional. Said plan shall be submitted concurrent with a Development Plan or building permit request for alterations of a site, and shall be reviewed and approved by the Approving Authority for the corresponding application request. Permanent impacts to Heritage Trees would be mitigated to a level of less than significant following implementation of Mitigation Measure **MM BIO-2**: Tree Inventory and Preservation Plan.

f) Conflict with the provisions of an adopted Habitat Conservation Plan, Native Community Conservation Plan, or other approved local, regional, or state habitat conservation plan?

No Impact. The Project Site is not located within or adjacent to a Conservation Program Area. Therefore, implementation of the project would not result in a conflict with the provisions of an adopted habitat conservation plan and no impact would occur. Therefore, no mitigation is required or proposed.

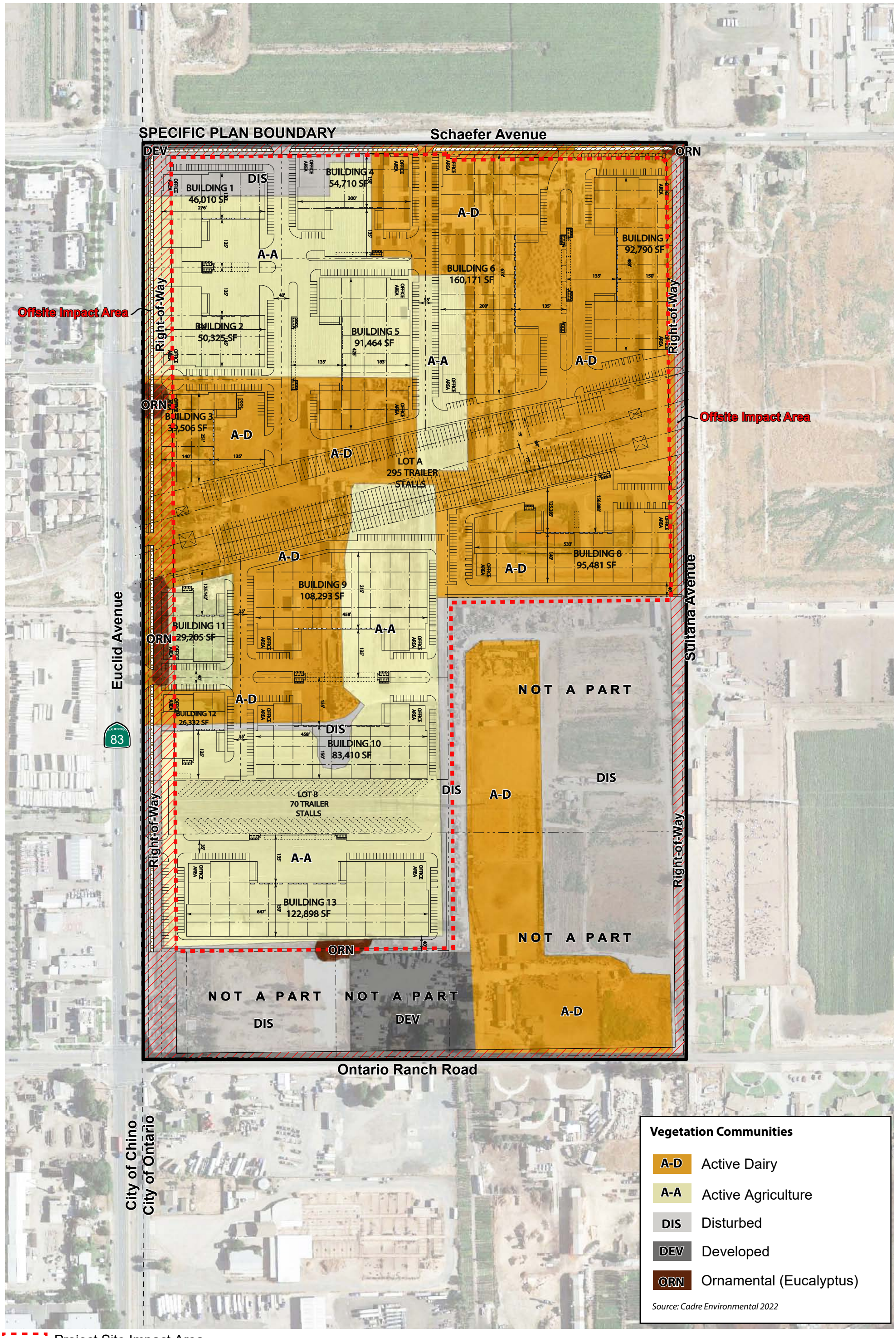


Figure 10 - Vegetation Communities Impact Map
Biological Resources Technical Report
Euclid Mixed Use Specific Plan, City of Ontario, California

CADRE Environmental

N

1 inch = 250 feet

INDIRECT IMPACTS

Potential indirect impacts include hydrological modification, discharges, lighting, and construction noise.

Water Quality

Impacts to water quality would be less than significant during both construction and operation following preparation of a Water Quality Management Plan, Storm Water Pollution Prevention Plan and compliance with National Pollutant Discharge Elimination System permit and San Bernardino County Regional Municipal Separate Stormwater Sewer System (MS4) code provisions. Therefore, no mitigation is required or proposed.

Toxics

Toxic sources within the Project Site would be limited to those commonly associated with commercial developments such as pesticides, insecticides, herbicides, fertilizers, and vehicle emissions. In order to mitigate for the potential effects of these toxics, the project will incorporate structural BMPs, as required in association with compliance with the NPDES permit system as warranted, in order to reduce the level of toxins introduced into the drainage system. Water quality measures will be implemented and no significant impacts are anticipated.

Lighting

No impacts related to lighting would occur during both construction and operation. The Project Site is not located adjacent to any open space habitats or sensitive biological resources. No impact.

Noise

Noise and vibration associated with the use of heavy equipment during project construction has the potential to disrupt bird nesting, foraging and breeding behavior within or adjacent to the Project Site. Conservation Measure **CM BIO-3:** Nesting Bird and Raptor Preconstruction Survey has been incorporated into the project to collectively contribute to reducing potential indirect noise impacts to nesting bird species located within or adjacent to the Project Site. No impact anticipated.

CUMULATIVE IMPACTS

The direct and/or indirect impacts of the project would not result in significant cumulative impacts (CEQA Section 15310) to environmental resources within the region of the Project Site. Cumulative impacts refer to incremental effects of an individual project when assessed with the effects of past, current, and proposed projects. The project represents the development of 70.04-acres of disturbed agricultural habitat, surrounded by agricultural, commercial, residential development and high traffic roads, and therefore will not result in an adverse cumulative impact to sensitive resources. Impacts related to buildout of the City and Sphere of Influence are anticipated to be less than significant if projects comply with Ontario Ranch mitigation measures and The Ontario Plan 2050

policies and standard conditions. Following implementation of the following mitigation and conservation measures, the proposed action would not conflict with the general plan policies and standard conditions for the protection of sensitive resources.

MITIGATION & CONSERVATION MEASURES

The following biological mitigation and conservation measures (Conditions of Approval) are relevant to the protection of biological resources to the extent practicable as part of ensuring all potential impacts to sensitive or regulated biological resources are in compliance with CEQA.

MM BIO-1: City of Ontario Biological Resources Habitat Mitigation Fee

The City of Ontario has established a habitat mitigation fee to cover potential environmental impacts to the burrowing owl, DSFLF, raptor foraging, loss of open space, and agricultural lands. Development impact fees for new development in Ontario Ranch were adopted on June 23rd, 2003, by the City Council. The Ontario Ranch development impact fees include a habitat mitigation fee of $4,320 per net acre for proposed residential, commercial, hotel and restaurant, office, and industrial development. Mitigation fees have been collected by the City of Ontario and have been deposited into a trust fund to be used for the acquisition, restoration, rehabilitation, and maintenance of lands deemed to have long-term conservation value.

MM BIO-2: Tree Inventory and Preservation Plan

A tree inventory will be required and prepared by a City approved certified arborist or qualified horticulturalist, to determine the presence/absence of Heritage Trees including assessment of health, structure, condition, and expected life span of all affected specimens.

Property proposed for development on which a Heritage Tree exists, shall require the submittal of a Tree Inventory and Preservation Plan prepared by a licensed landscape architect, horticulturalist, certified arborist, or other related professional. Said plan shall be submitted concurrent with a Development Plan or building permit request for alterations of a site, and shall be reviewed and approved by the Approving Authority for the corresponding application request.

The Tree Inventory and Preservation Plan shall show all existing on-site trees, and those existing trees on abutting lots and public rights-of-way with a canopy or root zone that extends onto the site or within 8 feet of a construction, staging or storage area, or graded site. Furthermore, the Tree Inventory and Preservation Plan shall identify Tree Protection Areas and trees requested to be removed, and shall show replacement trees as required by this Division.

CM BIO-3: Nesting Bird & Raptor Preconstruction Survey

Regulatory requirement for potential direct/indirect impacts to nesting common and sensitive bird and raptor species will require compliance with the CDFG Code Section

3503. Construction outside the nesting season (between September 1st and January 31st) do not require pre-removal nesting bird surveys. If construction is proposed between February 1st and August 31st, a qualified biologist will conduct a nesting bird survey(s) no more than three (3) days prior to initiation of grading to document the presence or absence of nesting birds within or directly adjacent (200 feet, up to 500 feet for raptors) to the Project Site.

The survey(s) will focus on identifying any raptors and/or bird nests that are directly or indirectly affected by construction activities. If active nests are documented, species-specific measures will be prepared by a qualified biologist and implemented to prevent abandonment of the active nest. At a minimum, grading in the vicinity of a nest will be postponed until the young birds have fledged. The perimeter of the nest setback zone will be fenced or adequately demarcated with stakes and flagging at 20-foot intervals, and construction personnel and activities restricted from the area. A survey report by a qualified biologist verifying that no active nests are present, or that the young have fledged, will be submitted to the City of Ontario for review and approval prior to initiation of grading in the nest-setback zone.

The qualified biologist will serve as a construction monitor during those periods when construction activities occur near active nest areas to ensure that no inadvertent impacts on these nests occur. A final monitoring report of the findings, prepared by a qualified biologist, will be submitted to the City of Ontario documenting compliance with the CDFG Code. Any nest permanently vacated for the season would not warrant protection pursuant to the CDFG Code.

CM BIO-4 Preconstruction Burrowing Owl Surveys

A 14-day burrowing owl preconstruction survey will be conducted immediately prior to the initiation of ground-disturbing construction to ensure protection for this species. The survey will be conducted in compliance with CDFW guidelines (CDFW 2012). A report of the findings prepared by a qualified biologist shall be submitted to the City of Ontario prior to any permit or approval for ground disturbing activities.

If burrowing owls are detected onsite during the focused surveys or 14-day preconstruction survey efforts, during the breeding season (February 1st to August 31st) then construction activities shall be limited to beyond 300 feet of the active burrows until a qualified biologist has confirmed that nesting efforts are compete or not initiated. In addition to monitoring breeding activity, if construction is proposed to be initiated during the breeding season or active relocation is proposed, a burrowing owl relocation plan will be developed and approved by the City of Ontario, CDFW and USFWS.

CM BIO-5 Focused Bat Survey

Prior to implementation of Project activities, a qualified biologist shall be retained to determine whether potential roosting sites for bats may be affected. For large ornamental trees suitable for bat roosting/nursery, exit counts and acoustic surveys shall be performed prior to initial ground disturbance, vegetation or structure removal to determine whether the Project Site and a 300-foot buffer supports a nursery or roost, and by which

species. This work will occur between late -spring and late summer and/or in the fall (generally mid-March through late October).

If the results of the bat survey find a total of a single roosting individual of a special status bat species or 25 or more individuals of a non-special status bat species with potential to be present in the Project Site (i.e., western Mastiff bat, big free-tailed bat, or pallid bat), a Bat Management Plan shall be developed to ensure mortality to bats does not occur. For each location confirmed to be occupied by bats, the plan will provide details both in text and graphically where exclusion devises/and or staged tree removal will need to occur, the timing for exclusion work and the timeline and methodology needed to exclude the bats. The plan will need to be reviewed and approved by CDFW prior to disturbance of the root(s).

CM BIO-6 Programmatic Assessment Area CEQA Analysis

The 24.18-acre Programmatic Assessment Area located within the southwest region of the Specific Plan Boundary including APN's 1053-211-05, 1053-281-01, -02, -03, -04, and -07 was not evaluated for biological resources as part of this analysis. To ensure that potential adverse effects to sensitive species and resources are reduced to a less than significant level, a focused biological resources assessment and impact analysis shall be conducted in the un-surveyed portion of the Specific Plan Boundary prior to approval of development within this region. In addition to completing CEQA review, any focused surveys and required mitigation measures shall be implemented prior to project approval and initiation of construction.

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Certification "*I hereby certify that the statements furnished above and in the attached exhibits present the data and information required for this biological evaluation, and that the facts, statements, and information presented are true and correct to the best of my knowledge".*

Author:_____ Date: March 29, 2023

Contact: Ruben S. Ramirez, Jr. 949-300-0212, r.ramirez@cadreenvironmental.com

APPENDIX D

CULTURAL REPORTS

APPENDIX D1

CULTURAL AND PALEONTOLOGICAL RESOURCES ASSESSMENT

CULTURAL RESOURCES ASSESSMENT

Euclid Mixed Use Specific Plan Project

City of Ontario, San Bernardino County, California

Prepared for:

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Claremont, California 91711

Project No. KIM2223

Data Base Information:
Type of Study: Intensive Survey
Resources Recorded: 13813 Euclid Ave, 14095 Euclid Ave, 7275 Schaefer Ave, 7218 & 7226 Edison Ave, 7260 & 7244 Edison Ave, P-36-25440
Keywords: Dairy, Historic-Period Buildings
USGS Quadrangle: 7.5-minute *Ontario* (1981), *Prado Dam* (1981); *California*

BCRCONSULTING LLC

August 18, 2023

MANAGEMENT SUMMARY

BCR Consulting LLC (BCR Consulting) is under contract to Kimley-Horn to complete a Cultural Resources Assessment of the proposed Euclid Mixed Use Specific Plan in the City of Ontario (City), San Bernardino County, California. A cultural resources records search, additional research, intensive-level pedestrian field survey, California Register of Historical Resources (California Register) eligibility evaluations, Native American Heritage Commission (NAHC) Sacred Lands File Search, and vertebrate paleontological resources overview were conducted for the project in partial fulfillment of the California Environmental Quality Act (CEQA). The current study partially relies on *The City of Ontario's Historic Context for the New Model Colony Area* by Galvin & Associates (2004) for historical context.

The records search has revealed that 10 previous cultural resources studies have taken place, and two cultural resources have been recorded within one half-mile of the project site. Two of the previous studies have assessed small portions of the project site for cultural resources resulting in one cultural resource (a transmission alignment designated P-36-25440) previously recorded within its boundaries. During the research and field survey, six resources were identified, recorded, and evaluated for California Register listing eligibility (i.e. significance under CEQA). These include the historic-period Grant Dairy at 13813 Euclid Avenue, a rural-residential property at 14095 Euclid Avenue, an unnamed historic-period dairy at 7275 Schaefer Avenue, a rural-residential property at 7218 & 7226 Edison Avenue, an unnamed historic-period dairy at 7244 & 7260 Edison Avenue, and a historic-period transmission alignment designated P-36-25440. California Register listing eligibility recommendations are summarized in the below table.

Property Type	Address	California Register Eligibility
Historic-Period Grant Dairy	13813 Euclid Avenue	Recommended Eligible
Historic-Period Rural Residential	14095 Euclid Avenue	Recommended Not Eligible
Historic-Period Dairy	7275 Schaefer Avenue	Recommended Eligible
Historic-Period Rural Residential	7218 & 7226 Edison Avenue	Recommended Not Eligible
Historic-Period Dairy	7244 & 7260 Edison Avenue	Recommended Eligible
Historic-Period Transmission Alignment	P-36-25440	Recommended Not Eligible

Non-Significant Properties. The historic-period rural residential property at 14095 Euclid Avenue, the historic-period rural residential property at 7218 & 7226 Edison Avenue, and the transmission alignment designated P-36-25440 have been evaluated and are recommended not eligible for California Register eligibility. They do not warrant further consideration.

Significant Properties. The Historic-Period Grant Dairy at 13813 Euclid Avenue comprises a Streamline Moderne-style milk parlor, two residences and several ancillary buildings, and other dairy features. The dairy is recommended eligible for California Register listing under Criterion 1, 2, and 3. The property is therefore considered a "historical resource" under CEQA. However, the two residences, ancillary buildings, and other features have been modified outside the historic period. They do not contribute to the overall significance of the Grant Dairy and as such do not warrant preservation. The milk parlor is an excellent example of a Streamline Moderne milk parlor, which has been previously identified in a historic context statement as an important local property type (Galvin & Associates 2004). It

features design elements such as the rounded corners of the facades, a shaped parapet, glass block windows, and a flat clay tile roof.

The historic-period dairy at 7275 Schaefer Avenue comprises a Streamline Moderne-style milk parlor, a second milk parlor (c1965), and two residences as well as outbuildings, several goat barns, hay storage structures, and an effluent pond to the south. Of these elements, only the Streamline Moderne-style milk parlor is eligible because it is an important local property type under Criterion 3 of the California Register. It has been previously identified in a historic context statement as an important local property type (Galvin & Associates 2004). It features design elements such as the rounded corners of the facades, a shaped parapet, glass block windows that curve around a corner, and a flat clay tile roof. The property is therefore considered a "historical resource" under CEQA, based on the significance of the milk parlor (which warrants preservation). The other buildings lack significance and do not warrant preservation under CEQA.

The historic-period dairy at 7244 & 7260 Edison Avenue comprises a historic-period residence to the west, a historic-period residence to the east, and a historic-period Streamline Moderne-style milking parlor at the center. This dairy is recommended eligible for California Register listing under Criterion 1, 2, and 3. The property is therefore considered a "historical resource" under CEQA. However, the two residences do not contribute to the overall significance of the historic-period dairy and as such do not warrant preservation. The milk parlor is an excellent example of a Streamline Moderne-style milk parlor, which has been previously identified in a historic context statement as an important local property type (Galvin & Associates 2004). It features design elements such as the smooth stucco finish, projecting center volume, rounded corners, shaped parapet, and decorative clay tile roof, and it warrants preservation under CEQA.

Preservation Mitigation. Preservation in place is the preferred manner of mitigating impacts to historical resources under CEQA. Based on results of the current study, the Streamline Moderne-style milk parlors described above merit preservation. If preservation is feasible, no other cultural resources work or monitoring is recommended for portions of the project site that have been subject to inventory. The significance of a historical resource is impaired when a project demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for the California Register. If an impact on a historical or archaeological resource is significant, CEQA requires feasible measures to minimize the impact (State CEQA Guidelines § 15126.4 (a)(1)). Mitigation of significant impacts must lessen or eliminate the physical impact that the project will have on the resource. Where preservation is not an option, a data collection mitigation program has been developed in which potential adverse effects of any proposed demolition would be reduced.

Data Collection Mitigation. Prior to any project-related impacts to significant resources, the City would complete or require the completion of Historic American Building Survey (HABS) *style* photographic documentation of the subject property. While the photographs would meet HABS standards, only local curation (and no federal curation or involvement) would be necessary. The photographic documentation will be provided to the City (and any required local repositories) for curation. However:

> In most cases the use of drawings, photographs, and/or displays does not mitigate the physical impact on the environment caused by demolition or destruction of an

> historical resource (14 CCR § 15126.4(b)). However, CEQA requires that all feasible mitigation be undertaken even if it does not mitigate below a level of significance. In this context, recordation serves a legitimate archival purpose. The level of documentation required as a mitigation should be proportionate with the level of significance of the resource (http://ohp.parks.ca.gov/?page_id=21727).

Through this mitigation measure, impacts to the project site would be reduced. However, it may not be possible to reduce impacts of demolition below a level of significance.

Accidental Discoveries. If previously undocumented cultural resources are identified during earthmoving activities associated with development of the project site, a qualified archaeologist should be contacted to assess the nature and significance of the find, diverting construction excavation if necessary. The current study attempted to determine whether significant archaeological deposits were present on the proposed project site. Although none were yielded during the records search and field survey, ground-disturbing activities have the potential to reveal buried deposits not observed on the surface. Prior to the initiation of ground-disturbing activities, field personnel should be alerted to the possibility of buried prehistoric or historic cultural deposits. In the event that field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease and a qualified archaeologist should be retained to assess the significance of the find. The qualified archaeologist should have the authority to stop or divert construction excavation as necessary. If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register of Historic Places (National Register), plans for the treatment, evaluation, and mitigation of impacts to the find will need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:

- Historic-period artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;
- Historic-period structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;
- Prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;
- Groundstone artifacts, including mortars, pestles, and grinding slabs;
- Dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks;
- Human remains.

Sacred Lands File Search. Findings were negative during the Sacred Lands File search with the NAHC. The results of the Sacred Lands File search are provided in Appendix C. The State Legislature added requirements regarding tribal cultural resources for CEQA in Assembly Bill 52 (AB 52) that took effect July 1, 2015. AB 52 requires consultation with California Native American tribes and consideration of tribal cultural resources in the CEQA process. By including tribal cultural resources early in the CEQA process, the legislature intended to ensure that local and Tribal governments, public agencies, and project proponents would have information available, early in the project planning process, to identify and address potential adverse impacts to tribal cultural resources. By taking this proactive approach, the legislature also intended to reduce the potential for delay and conflicts in the environmental review process. To help determine whether a project may have such an effect, the Public Resources Code requires a lead agency to consult with any

California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a Proposed Project. Since the City will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff is available to answer questions and address concerns.

Paleontological Resources. According to CEQA Guidelines, projects subject to CEQA must determine if a project would "directly or indirectly destroy a unique paleontological resource". The Paleontological Overview provided in Appendix F has recommended that:

> The geologic units underlying the project area are mapped primarily as young alluvial deposits from the Holocene and late Pleistocene epochs (Morton and Miller 2006). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, Pleistocene alluvial units are considered to be highly paleontologically sensitive. The Western Science Center does not have localities within the project area or within a 1-mile radius. However, this is likely due to the project area's distance from the museum and should not be taken as indicative of paleontological sensitivity; other repositories may have localities in the area. Any fossil specimen from the Euclid Mixed Use Specific Plan Project would be scientifically significant. Excavation activity associated with the development of the project area would impact the paleontologically sensitive Pleistocene alluvial units, and it is the recommendation of the Western Science Center that a paleontological resource mitigation program be put in place to monitor, salvage, and curate any recovered fossils associated with the study area.

Field Survey Limits. Six parcels in the south and southeastern portion of the Specific Plan Area were not accessible during the field survey. These include Assessor Parcel Numbers 1053-281-01, -02, -03, -04, -05, and -07. Prior to any project-related developments, these parcels will require systematic field inventory to determine whether any cultural resources (including historic-period architectural resources, or historic-period or prehistoric archaeological resources) are present. All cultural resources work should take place under the supervision of a cultural resources professional that meets the U.S. Secretary of the Interior Professional Qualification Standards for Archaeology and Architectural History.

Human Remains. If human remains are encountered, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to PRC Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are prehistoric, the Coroner will notify the NAHC to determine a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

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INTRODUCTION

BCR Consulting LLC (BCR Consulting) is under contract to Kimley-Horn to complete a Cultural Resources Assessment of the proposed Euclid Mixed Use Specific Plan Project in the City of Ontario (City), San Bernardino County, California. The project occupies approximately 84 acres and is bounded by dairies and undeveloped land to the north, east, south, and residential properties and commercial properties to the west. A cultural resources records search, additional research, intensive-level pedestrian field survey, California Register of Historical Resources (California Register) eligibility evaluations, Native American Heritage Commission (NAHC) Sacred Lands File Search, and vertebrate paleontological resources overview were conducted for the project pursuant to the California Environmental Quality Act (CEQA). The project site is located in non-sectioned Township 2 South, Range 7 West, San Bernardino Baseline and Meridian. It is depicted on the United States Geological Survey (USGS) *Ontario, California* (1981) and *Prado Dam, California* (1981) 7.5-minute topographic quadrangles (Figure 1).

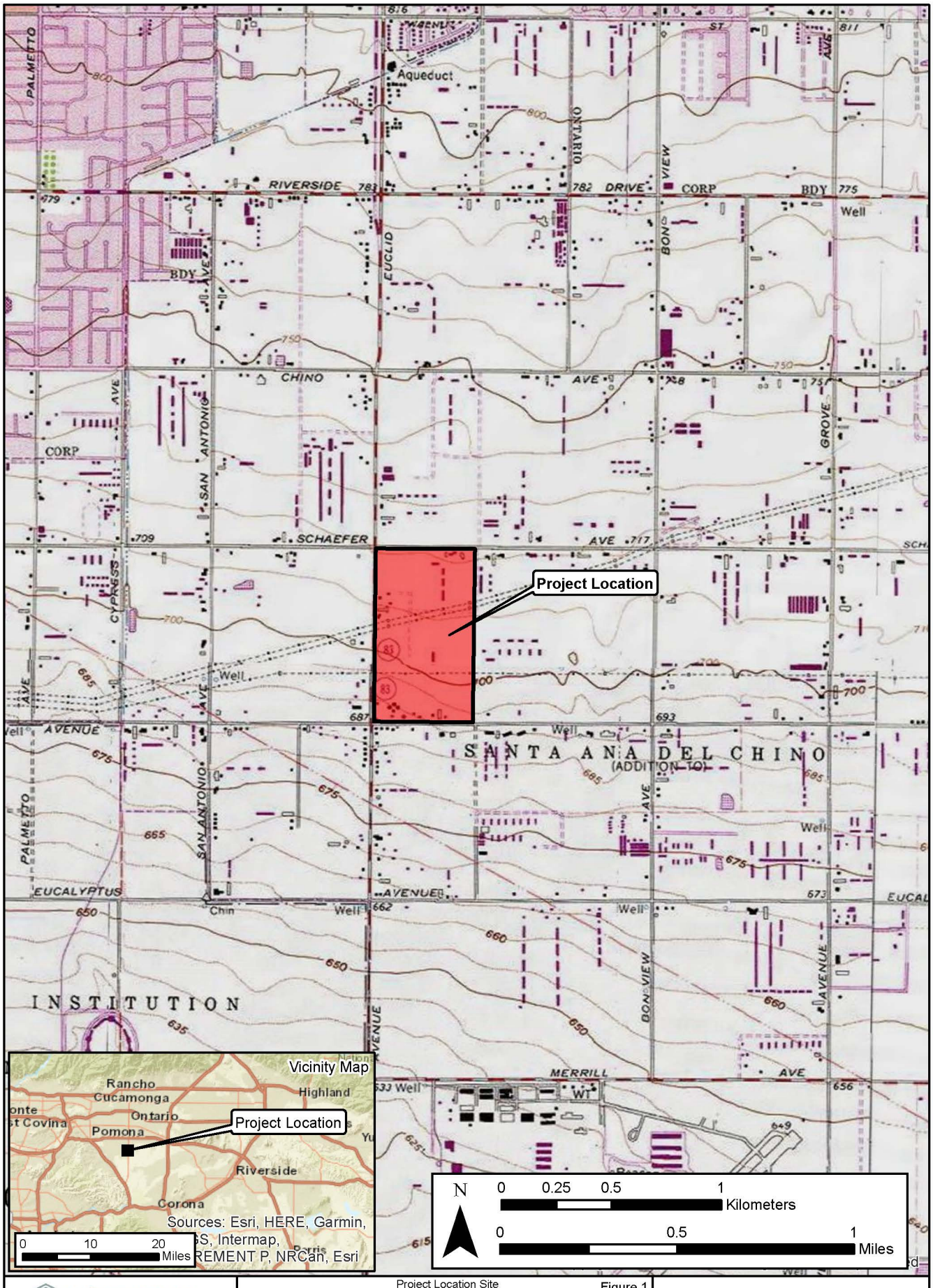
Regulatory Setting

The California Environmental Quality Act. CEQA applies to all discretionary projects undertaken or subject to approval by the state's public agencies (California Code of Regulations 14(3), § 15002(i)). Under CEQA, "A project with an effect that may cause a substantial adverse change in the significance of a historical resource is a project that may have a significant effect on the environment" (Cal. Code Regs. tit. 14(3), § 15064.5(b)). State CEQA Guidelines section 15064.5(a) defines a "historical resource" as a resource that meets one or more of the following criteria:

- Listed in, or eligible for listing in, the California Register of Historical Resources (California Register)
- Listed in a local register of historical resources (as defined at Cal. Public Res. Code § 5020.1(k))
- Identified as significant in a historical resource survey meeting the requirements of § 5024.1(g) of the Cal. Public Res. Code
- Determined to be a historical resource by a project's lead agency (Cal. Code Regs. tit. 14(3), § 15064.5(a))

A historical resource consists of "Any object, building, structure, site, area, place, record, or manuscript which a lead agency determines to be historically significant or significant in the architectural, engineering, scientific, economic, agricultural, educational, social, political, military, or cultural annals of California…Generally, a resource shall be considered by the lead agency to be 'historically significant' if the resource meets the criteria for listing in the California Register of Historical Resources" (Cal. Code Regs. tit. 14(3), § 15064.5(a)(3)).

The significance of a historical resource is impaired when a project demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for the California Register. If an impact on a historical or archaeological resource is significant, CEQA requires feasible measures to minimize the impact (State CEQA Guidelines § 15126.4 (a)(1)). Mitigation of



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Project Location Site
Euclid Mixed Use Specific Plan Project

Figure 1

Reference: ESRI; USGS Quad: Ontario (1981), Prado Dam (1981), California

Kimley-Horn

significant impacts must lessen or eliminate the physical impact that the project will have on the resource. Section 5024.1 of the Cal. Public Res. Code established the California Register. Generally, a resource is considered by the lead agency to be "historically significant" if the resource meets the criteria for listing in the California Register (Cal. Code Regs. tit. 14(3), § 15064.5(a)(3)). The eligibility criteria for the California Register are similar to those of the National Register of Historic Places (National Register), and a resource that meets one or more of the eligibility criteria of the National Register will be eligible for the California Register. The California Register program encourages public recognition and protection of resources of architectural, historical, archaeological, and cultural significance, identifies historical resources for state and local planning purposes, determines eligibility for state historic preservation grant funding and affords certain protections under CEQA. Criteria for Designation:

1. Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States.
2. Associated with the lives of persons important to local, California or national history.
3. Embodies the distinctive characteristics of a type, period, region or method of construction or represents the work of a master or possesses high artistic values.
4. Has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California or the nation.

In addition to meeting one or more of the above criteria, the California Register requires that sufficient time has passed since a resource's period of significance to "obtain a scholarly perspective on the events or individuals associated with the resources." (CCR 4852 [d][2]). Fifty years is normally considered sufficient time for a potential historical resource, and in order that the evaluation remain valid for a minimum of five years after the date of this report, all resources older than 45 years (i.e. resources from the "historic-period") will be evaluated for California Register listing eligibility, or CEQA significance. The California Register also requires that a resource possess integrity. This is defined as the ability for the resource to convey its significance through seven aspects: location, setting, design, materials, workmanship, feeling, and association.

Finally, CEQA requires that significant effects on unique archaeological resources be considered and addressed. CEQA defines a unique archaeological resource as any archaeological artifact, object, or site about which it can be clearly demonstrated that, without merely adding to the current body of knowledge, there is a high probability that it meets any of the following criteria:

1. Contains information needed to answer important scientific research questions and there is a demonstrable public interest in that information.
2. Has a special and particular quality such as being the oldest of its type or the best available example of its type.
3. Is directly associated with a scientifically recognized important prehistoric or historic event or person.

CEQA Guidelines Section 15064.5 Appendix G includes significance criteria relative to archaeological and historical resources. These have been utilized as thresholds of significance here, and a project would have a significant environmental impact if it would:

a) cause a substantial adverse change in the significance of a historical resource as defined in section 10564.5;

b) Cause a substantial adverse change in the significance of an archaeological resource pursuant to Section 10564.5;

c) Disturb any human remains, including those interred outside of formal cemeteries.

City of Ontario Designation Criteria. In addition to evaluation for California Register listing eligibility, the City of Ontario Development Code Article 26: Historic Preservation (Section 9-1.2615) provides the following designation criteria for a property to qualify as a City Historic Landmark:

a. It exemplifies or reflects special elements of the City's history;

b. It is identified with persons or events significant in local, state, or national history;

c. It is representative of the work of a notable builder, designer, architect, or artist;

d. It embodies distinguishing architectural characteristics of a style, type, period, or method of construction;

e. It is a noteworthy example of the use of indigenous materials or craftsmanship;

f. It embodies elements that represent a significant structural, engineering, or architectural achievement or innovation;

g. It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community or the City; or

h. It is one of the few remaining examples in the City, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

Cultural resources would be subject to evaluation for the above City Historic Landmark designation criteria.

Tribal Cultural Resources. The Legislature added requirements regarding tribal cultural resources for CEQA in Assembly Bill 52 (AB 52) that took effect July 1, 2015. AB 52 requires consultation with California Native American tribes and consideration of tribal cultural resources in the CEQA process. By including tribal cultural resources early in the CEQA process, the legislature intended to ensure that local and Tribal governments, public agencies, and project proponents would have information available, early in the project planning process, to identify and address potential adverse impacts to tribal cultural resources. By taking this proactive approach, the legislature also intended to reduce the potential for delay and conflicts in the environmental review process. To help determine whether a project may have such an effect, the Public Resources Code requires a lead agency to consult with any California Native American tribe that requests consultation and is

traditionally and culturally affiliated with the geographic area of a Proposed Project. Since the City will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff are available to answer questions and address comments as necessary.

Paleontological Resources. CEQA provides guidance relative to significant impacts on paleontological resources, indicating that a project would have a significant impact on paleontological resources if it disturbs or destroys a unique paleontological resource or site or unique geologic feature. Section 5097.5 of the California Public Resources Code specifies that any unauthorized removal of paleontological remains is a misdemeanor. Further, California Penal Code Section 622.5 sets the penalties for damage or removal of paleontological resources. CEQA documentation prepared for projects would be required to analyze paleontological resources as a condition of the CEQA process to disclose potential impacts. Please note that as of January 2018 paleontological resources are considered in the geological rather than cultural category. Therefore, paleontological resources are not summarized in the body of this report. A paleontological overview completed by the Western Science Center is provided as Appendix F.

NATURAL SETTING

The project is located in the Chino Valley, which is bounded on the west by the San Jose Hills, on the south by the Chino Hills, on the north by the foothills of the San Gabriel Mountains, and on the east by La Sierra and the Jurupa Mountains (USGS 1981). Local rainfall ranges from 5 to 15 inches annually (Jaeger and Smith 1971:36-37). The area containing the project site exhibits a gradual southerly slope, and lies on a flood plain that feeds the Santa Ana River approximately five miles to the south (USGS 1981). The native biology of the region is difficult to reconstruct due to recent and historical agricultural, municipal, and industrial impacts. However, the project site is situated in the Upper Sonoran Life Zone, which is locally present between approximately 500 and 5,000 feet AMSL. This zone typically comprises cismontane valleys and low mountain slopes dominated by mixed coastal sage scrub and chaparral vegetation communities (Williams 2008).

CULTURAL SETTING

Prehistoric Context

The project site is located within the traditional boundaries of the Gabrielino (Bean and Smith 1978; Kroeber 1925). The Gabrielino probably first encountered Europeans when Spanish explorers reached California's southern coast during the 15th and 16th centuries (Bean and Smith 1978; Kroeber 1925). The first documented encounter, however, occurred in 1769 when Gaspar de Portola's expedition crossed Gabrielino territory (Bean and Smith 1978). Other brief encounters took place over the years and are documented in McCawley 1996 (citing numerous sources). The Gabrielino name has been attributed by association with the Spanish mission of San Gabriel, and refers to a subset of people sharing speech and customs with other Cupan speakers (such as the Juaneño/Luiseño/Ajachemem) from the greater Takic branch of the Uto-Aztecan language family (Bean and Smith 1978). Gabrielino villages occupied the watersheds of various rivers (locally including the Santa Ana) and intermittent streams. Chiefs were usually descended through the male line and

often administered several villages. Gabrielino society was somewhat stratified and is thought to have contained three hierarchically ordered social classes which dictated ownership rights and social status and obligations (Bean and Smith 1978:540-546). Plants utilized for food were heavily relied upon and included acorn-producing oaks, as well as seed-producing grasses and sage. Animal protein was commonly derived from rabbits and deer in inland regions, while coastal populations supplemented their diets with fish, shellfish, and marine mammals (Boscana 1933, Heizer 1968, Johnston 1962, McCawley 1996). Dog, coyote, bear, tree squirrel, pigeon, dove, mud hen, eagle, buzzard, raven, lizards, frogs, and turtles were specifically not utilized as a food source (Kroeber 1925:652).

History

Historic-era California is generally divided into three periods: the Spanish or Mission Period (1769 to 1821), the Mexican or Rancho Period (1821 to 1848), and the American Period (1848 to present).

Spanish Period. The first European to pass through the area is thought to be a Spaniard called Father Francisco Garces. Having become familiar with the area, Garces acted as a guide to Juan Bautista de Anza, who had been commissioned to lead a group across the desert from a Spanish outpost in Arizona to set up quarters at the Mission San Gabriel in 1771 near what today is Pasadena (Beck and Haase 1974). Garces was followed by Alta California Governor Pedro Fages, who briefly explored the region in 1772. Searching for San Diego Presidio deserters, Fages had traveled through Riverside to San Bernardino, crossed over the mountains into the Mojave Desert, and then journeyed westward to the San Joaquin Valley (Beck and Haase 1974).

Mexican Period. In 1821, Mexico overthrew Spanish rule and the missions began to decline. By 1833, the Mexican government passed the Secularization Act, and the missions, reorganized as parish churches, lost their vast land holdings, and released their neophytes (Beattie and Beattie 1974).

American Period. The American Period, 1848–Present, began with the Treaty of Guadalupe Hidalgo. In 1850, California was accepted into the Union of the United States primarily due to the population increase created by the Gold Rush of 1849. The cattle industry reached its greatest prosperity during the first years of the American Period. Mexican Period land grants had created large pastoral estates in California, and demand for beef during the Gold Rush led to a cattle boom that lasted from 1849–1855. However, beginning about 1855, the demand for beef began to decline due to imports of sheep from New Mexico and cattle from the Mississippi and Missouri Valleys. When the beef market collapsed, many California ranchers lost their ranchos through foreclosure. A series of disastrous floods in 1861–1862, followed by a significant drought further diminished the economic impact of local ranching. This decline combined with ubiquitous agricultural and real estate developments of the late 19th century, set the stage for diversified economic pursuits that continue to this day (Beattie and Beattie 1974; Cleland 1941).

Ontario (see also Appendix B for references). In 1839, after Mexico gained independence from Spain, the Mexican government granted the 12,000-acre Rancho de Cucamonga to Tiburcio Tapia. Americans began settling in California in large numbers during the Gold

Rush in the 1840s, and California statehood in 1850 accelerated the process statewide. In 1881, George and William Chaffey purchased part of Rancho Cucamonga in order to develop Etiwanda, where they tested their ground-breaking irrigation and town planning ideas. That same year, the brothers purchased 6,000 acres (along with water rights) west of Etiwanda, which became the cities of Ontario and Upland. In 1883, the Chaffeys added the Kincaid Ranch at the mouth of San Antonio Canyon to their holdings. They established the Ontario Land Company and subdivided the land into 10-acre farm lots, all of which had street frontage (Emick 2011:17, 20; Clucas 2009:7).

The Chaffeys set aside a town site for Ontario as well as land for an agricultural college, making water available to each parcel in order to encourage farmers to settle there. George Chaffey laid out a boulevard named Euclid, which stretched from the Southern Pacific Depot to the mesa at the north end of their holdings. The Chaffey brothers sold off their acreage and left California for Australia in 1886. Charles Frankish had moved to Ontario from Riverside that year to participate in the Chaffeys' "Model Colony," and invested in undeveloped land along Euclid Avenue. He recruited a group of investors and formed the Ontario Land and Improvement Company, which bought the Chaffey brothers' land holdings in 1886. Frankish acted as Manager and later President, and actively participated in the sale of real estate as well as planning and developing Ontario. Frankish carried out many of the Chaffey brothers' ideas. He extended Euclid past the depot to the south end of the company's holdings, platting the street grid and planting trees. In 1887, he organized the Ontario and San Antonio Heights Railroad Company (O&SA) as a subsidiary of the land company. In the 1890s, the O&SA constructed a hydro-electric plant at the mouth of San Antonio Canyon and electrified the system, making it the first electrified trolley west of Chicago. Ontario officially incorporated as a city in 1891. In 1912, Frankish bought the land company's Ontario-area assets and formed the Frankish Company. Frankish installed electric streetlights in Ontario, established its first bank, and was involved in nearly every aspect of local commerce and planning until his abrupt departure from the area in 1927 (Ontario City Library 2014:7, 8, 17, 18; Swett 1969:13, 19).

Aviation interests were introduced to Ontario in 1923 when Waldo Waterman and Archie Mitchell established Latimer Field in the city limits. As more people moved to Ontario, its urban growth forced aviators eastward until they established an airport at the current location of Ontario International Airport. During World War II, Ontario's airport brought many to the area for its pilot training facilities. It was about this time that the citrus industry that had contributed to Ontario's nascent years of growth started to experience a broad decline. Land values increased as more and more Americans began moving westward and settling in the area. In subsequent years and decades, farmers sold their land to incoming residential developers. The population of Ontario swelled, and by the late 1950s, the city's residential area had expanded south and east. Manufacturing, defense, and dairy industries began to take the place of citrus as the local economic staples drawing in new residents. By the late twentieth century, manufacturing had waned and was replaced by service industries and warehousing. Today, the city has expanded to a population of more than 166,000 people living within a 50 square-mile area. The city's economic base is now heavily dependent on industrial and manufacturing, and with three freeways, three major railroads, and Ontario International Airport, the region is rich in transportation resources (City of Ontario; Galvin & Associates 2004:40-41).

Local Dairies (see also Appendix B for references). The City of Ontario's Historic Context for the New Model Colony Area (Galvin & Associates 2004) has documented the local dairy industry, establishing periods of significance and a detailed framework for evaluation. The summary below draws from the context and other sources to provide sufficient historical framework to orient readers; the more comprehensive 2004 context may be consulted for additional detail.

Ontario and Chino are located in the Chino Valley basin of southwestern San Bernardino County. Dairy cows came to California with American settlers during the Gold Rush, and by 1876, a State Dairyman's Association had been organized. Dairies were first established in Chino Valley in the 1890s. The first dairy was most likely the Steel and Green Dairy, comprised of adobe buildings on the site of the Battle of Chino. The industry was based on free grazing during this era, and the availability of large tracts of fertile and inexpensive pastureland drew dairy farmers from Los Angeles County. However, most dairies in the region remained closer to Los Angeles population centers for several decades and citrus groves dominated the landscape through the end of the 1940s. Through 1930, the dairies in the region were small family businesses. Yet, by 1915, milk shipments already totaled over 6,000 pounds out of Chino. As Los Angeles County grew in population, so did the regional dairy industry. In the 1920s, many Dutch immigrants started dairy farms near Los Angeles. In the 1930s, to optimize milk production, dairies began switching from free grazing to dry-lot dairying and mechanized milking (Chino Champion 1977).

In the early years, the milking equipment was sanitized with steam tanks heated by oil burners. By 1920, dairy health and sanitation laws were established. Milk was originally filtered through cloth into the cans it was shipped in. The new laws required that a milk house had to be at least sixty feet from the barn, milkers must wear clean clothes before each milking, and milk house drains were constantly flushed with water. New ammonia cooling systems were also created. After World War I, many cows in California had tuberculosis, thus pasteurization became a requirement. The Dairy Herd Improvement Association (DHIA), formerly the Cow Testing Association, was also created to improve the quality of the milk cattle (Chino Champion 1977). The association was started in the United States in 1906 by Danish immigrant Helmer Rabild and a small group of dairy farmers in Michigan. The Diary Division of the U.S. Department of Agriculture was the biggest supporter of the DHIA. By 1926, over one-hundred associations were established across the country (Arnold 1956).

During and after World War II, the Los Angeles Basin grew as a metropolitan area, pushing dairies to peripheral areas such as Chino Valley. In 1949, Chino dairies produced one-third of the total dairy production in San Bernardino County (Chino Champion 1950). In 1950, there were 79 dairies with an average of 145 cows to a herd in the Chino area (Chino Champion 1950). Suburbanization in Los Angeles County allowed dairymen, many of whom were Dutch, to purchase larger acreage and build bigger homes in Chino Valley. During this era, local dry lot operations (which purchased all feed) began to replace traditional dairy farms, which grew some or all cattle feed. By 1957, there were more than 135 dairies in Chino Valley. The late 1950s and early 1960s dairies established in Chino Valley were the most technologically sophisticated in the US, capable of milking 450 cows a day for each worker. Herringbone milking parlors, in which cows were raised on a platform so milkers did

not have to kneel, became popular during this era to control labor costs. In 1960, an agricultural dairy preserve was established to protect the land from development, and by 1965, there were around 350 dairies in Chino Valley (Chino Champion 1977). In 1979, sixty percent of milk produced in California was from Chino Valley (Galvin & Associates 2004). Dairy products became California's number one agricultural commodity in 1993, and the state continued to lead the country in milk production into the twenty-first century (California Dairy Press Room & Resources 2023).

Streamline Moderne Milking Parlors

The City of Ontario's Historic Context for the New Model Colony Area (Galvin & Associates 2004) identified an unusual building type that characterizes historic-era dairies in the Ontario area, stating that the survey area has one of the largest concentrations of this building type in California. These milk parlors (also called milk houses or milk plants) are two-part buildings: a long, narrow shed with milking stalls for cows connected to a small cooling and processing building near a circular drive. The large utilitarian area where the cows are milked (historically referred to as the milking barn or milking parlor) has concrete masonry unit walls with large unglazed openings for ventilation and gabled roof. Floors are concrete for easy cleaning; stalls for cows are likewise designed for sanitation of concrete with metal stanchions. The processing/cooling/storage section of this building type (historically called the milk house or milk room) was not designed to be entered by cows or milkers. The milk houses are more visible from the public right-of-way than the barns, and thus more attention was paid to their aesthetic design. Many early examples, as documented in the Historic Context, exhibit simple Streamline Moderne architectural features including smooth symmetrical massing, stucco cladding, flat roofs with coping, curvilinear corners, and glass block windows. Larger and more elaborate examples have projecting center volumes, some with glass block at the curved corner.

The Historic Context theorized that these buildings would "most likely" have been constructed between 1920 and 1940, stating that more decorative Art Deco-style examples with geometric and angular edges as well as decorative chevrons or zigzags would have been constructed between 1920 and 1930, and that dairy owners transitioned to the Streamline Moderne style as described above between 1930 and 1940. Although revision of the 2004 Historic Context is outside the scope of the current study, some of the more serious flaws and inconsistencies within its discussion of this property type must be addressed to evaluate examples of this building type. The Context accurately describes the building type and correctly states that the Ontario/Chino area appears to boast the largest concentration of the property type in the state. However, the Context does not provide any photographic examples of the more decorative Art Deco-style milk parlors that it states would have been constructed before 1930, nor have recent field investigations revealed any dairy buildings with ornamental features that directly reference Art Deco architecture; the existence of dairy buildings with strongly Art Deco ornament appears to have been conjectural. A careful reading of the Historic Context and a review of its bibliography reveal that no sources on Art Deco or Streamline Moderne architecture were cited (in contrast to its extensive bibliography on Ranch Style architecture). Nor does the bibliography include sources focused on the architecture of dairies, the development of dairy building typology over the twentieth century, the technical requirements of twentieth century dairy buildings, or contemporaneous trade journals that discuss best practices for dairy building construction.

Furthermore, pages 44-48 of the Context have no citations whatsoever. Thus, close examination reveals that its preparers developed the 1920-1940 period of significance based on the widely understood fact that the Art Deco/Streamline Moderne architectural movement was popular during this era and that Streamline Moderne grew out of Art Deco during the Great Depression. However reasonable this assumption may have been, it was not based on evidence. As demonstrated below, these buildings were not developed between 1920 and 1940.

The use of glass block is virtually ubiquitous in these milk plants and is one of the most important character-defining features of the building type. Glass block construction was pioneered in the US for a New York hotel built in 1928. Production of glass block began about 1932 and the material was featured at the 1933-1934 Chicago Century of Progress International Exhibition and the 1939 World's Fair in New York, helping to popularize it. The height of its use was from the late 1930s through the 1940s. It became an essential element of the Streamline Moderne style since it could be incorporated into curving wall surfaces (Fagan 2015). The development history of this material definitively demonstrates that Streamline Moderne milking parlors could not have been constructed in the Chino Valley prior to 1933 at the absolute earliest. In 1925, the University of California College of Agriculture published recommendations for milk house design and construction. Although concern for sanitary conditions had led to a recommendation for the use of concrete flooring for milking parlors and milk houses during this era, best practice continued to advise wood-frame wall construction with wood sheathing and double-hung wood sash windows with screens. In the 1920s, glass block and concrete masonry units were not yet being recommended as building materials by organizations promoting progressive dairying (Belton 1925).

Although glass block was in production by the mid-1930s and theoretically could have been utilized, its use for dairy buildings would have been unlikely, since building materials trends begin in urban areas and arrive later to farming operations, where utilitarian considerations are more important than style. Review of historic aerial photographs provides further evidence that the building type was not in local use during the 1920s and 1930s. Review of historic aerial photographs for a roughly two square mile area (including the current project area) has revealed that it eventually held at least 17 of these buildings. Only two milking parlors that fit the typology had been constructed by 1949 and by 1953 there were still only two in the study area (USDA Aerial Photographs 1949, 1953, 1975). Furthermore, review of local newspapers reveals few if any new dairies established during the 1930s, and expansion of existing operations appears to have been modest during these Great Depression years. Extensive comparative research has revealed no existing California cultural resource reports or academic papers that have analyzed the building type. Several historic photographs of Los Angeles County dairies were discovered, and these demonstrate that the property type was in use in areas like Bellflower and Artesia during the 1940s and 1950s; the oldest dated photograph of a Streamline Moderne milking parlor in Artesia is from 1940. The Streamline Moderne milking parlor appears to have traveled from Los Angeles County to Ontario in the 1940s as dairymen began to move their operations to western San Bernardino County, and the trend accelerated rapidly in the mid-1950s along with the continued migration of dairies to Chino Valey. A 1940 article in the Chino Champion describes the Abacherli Dairy at the intersection of Walnut and San Antonio avenues as a

state-of-the-art local dairy plant. Although the article does not include photographs, a milk house of concrete construction with concrete floors is described and may have been an early example of the typology (Chino Champion 1940). By 1947, the Journal of Dairy Science was recommending glass block for use in milk processing plants because it provided illumination without allowing dirt to infiltrate like an open window. The same publication also praises its “modern look” (Nelson 1947). Other dairy-oriented publications also recommended use of the glass block and masonry construction in the late 1940s (University of Wisconsin 1949). And the extant Streamline Moderne milk parlor at the Grant Dairy (in the current study area) is known to have been built in 1947 or 1948.

The local popularity of glass block in milking parlors appears to have peaked in the 1950s, when many local examples of this building type were constructed. Glass blocks were heavily advertised in dairy trade journals throughout the 1950s, and construction of the building typology continued into the 1960s. A Streamline Moderne milking parlor appears in a 1956 article contrasting “modern dairy plants” with the large wooden barns of the early twentieth century (Chino Champion 1956). (Although its construction date is not specifically mentioned, it would be unlikely for a local newspaper to tout a building as “modern” if it were more than two or three years old.) Although documents that substantiate exact dates for construction of Streamline Moderne milk parlors in Ontario have not been discovered, available evidence indicates that most were constructed between 1940 and 1965. Since we have demonstrated that the actual construction of this building type did not take place within the Art Deco era (1920-1940) this study will use Streamline Moderne Milk Parlor in reference to this building type and will consider the period of significance 1940-1965.

PERSONNEL

David Brunzell, M.A., RPA acted as the Project Manager and Principal Investigator for the current study. Mr. Brunzell meets the United States Secretary of the Interior Professional Qualification Standards for Archaeology and Architectural History. Mr. Brunzell wrote the technical report with contributions from Principal Architectural Historian, Kara Brunzell, M.A., BCR Consulting Archaeological Field Director, Joseph Orozco, M.A, RPA. and BCR Consulting Archaeological Crew Chief Tim Blood, M.S. Mr. Orozco, Mr. Blood, and BCR Consulting Staff Archaeologist Doug Kazmier, B.A. completed the pedestrian survey. Mr. Brunzell, Ms. Brunzell, Mr. Kazmier, and Mr. Blood completed the Department of Park and Recreation (DPR) 523 forms. Ms. Brunzell completed additional research, architectural descriptions, and historic-period built environment eligibility evaluations.

METHODS

This work was completed pursuant to CEQA, the Public Resources Code (PRC) Chapter 2.6, Section 21083.2, and California Code of Regulations (CCR) Title 14, Chapter 3, Article 5, Section 15064.5. The work is also completed pursuant to City Development Code Article 26: Historic Preservation. The pedestrian cultural resources survey was intended to locate and document previously recorded or new cultural resources, including archaeological sites, features, isolates, and historic-period buildings, that exceed 45 years in age within defined project boundaries. The project site was examined using 15-meter transect intervals, where accessible. This study is intended to determine whether cultural resources are located within the project boundaries, whether any cultural resources are significant pursuant to the above-

referenced regulations and standards, and to develop specific mitigation measures that will address potential impacts to existing or potential resources. Tasks pursued to achieve that end include:

- Cultural resources records search to review the results of any studies conducted within a half-mile radius of the project boundaries;
- Additional research through various local and regional resources;
- Systematic pedestrian survey of the entire accessible project site;
- California Register eligibility evaluation for resources identified;
- Development of recommendations and mitigation measures for cultural resources documented within the project boundaries, following CEQA;
- Completion of DPR 523 forms for any discovered cultural resources.

Research

Records Search. On November 17th, 2022 a records search was conducted at the South Central Coastal Information Center (SCCIC) at California State University, Fullerton. This archival research reviewed the status of all recorded historic and prehistoric cultural resources, and survey and excavation reports completed within one half-mile of the project site. Additional resources reviewed included the National Register, the California Register, and documents and inventories published by the California Office of Historic Preservation. These include the lists of California Historical Landmarks, California Points of Historical Interest, Listing of National Register Properties, and the Inventory of Historic Structures.

Additional Research. BCR Consulting performed additional research through City of Ontario permit records, the Robert E. Ellingwood Model Colony History Room of the Ontario Library, the San Bernardino County Historical Archives, and through various internet resources. The research focused on land-use history, and on acquiring and consulting primary and secondary sources such as building permits, property title documents, census records, birth and death records, newspaper articles, scholarly journal articles, and biographical sources.

Field Survey

An intensive-level cultural resources field survey of the project site was conducted on October 31, 2022, February 8, 2023, and on May 22, 2023. The survey was conducted by walking parallel transects spaced approximately 15 meters apart across the accessible project site. The following Assessor Parcel Numbers were not accessible: 1053-281-01, -02, -03, -04, -05, and -07 (see Appendix E). Also, inaccessible areas such as fenced yards, building interiors, and livestock enclosures and feeding areas were not subject to systematic survey. However, inaccessible parcels were photographed from the public right of way, and as a result, built environment resources could be assessed and evaluated on these properties. Cultural Resources were recorded on DPR 523 forms. Digital photographs were taken at various points within the project site. These included overviews as well as detail photographs of all cultural resources. Cultural resources were recorded per the California OHP *Instructions for Recording Historical Resources* in the field using:

- Detailed note taking for entry on DPR Forms (see Appendix B)

- Hand-held Garmin Global Positioning systems for mapping purposes
- Digital photographic overviews and photographs of all cultural resources (see Appendix B and D).

RESULTS

Research

Records Search. Data from the SCCIC revealed that 10 previous cultural resources studies have taken place, and two cultural resources have been recorded within one half-mile of the project site. Two of the previous studies have assessed small portions of the project site for cultural resources resulting in one cultural resource (a transmission alignment designated P-36-25440) previously recorded within its boundaries. Records search results are summarized in Table A, and a records search bibliography is provided in Appendix A.

Table A. Cultural Resources and Reports Within One Half-Mile of the Project Site

USGS 7.5 Min Quad	Cultural Resources Within One Half-Mile of Project Site	Studies W/in One Half-Mile
Ontario (1981), *Prado Dam* (1981), *California*	P-36-25440: Historic-Period Chino-Mira Loma No.1 Transmission Alignment (Crosses Project Site) P-36-26725: Historic-Period Building (1/2 Mile SW)	SB-1499, 2623, 2678, 3012, 3688, 4402, 4404*, 6095*, 7898, 7968

*Previously assessed a portion of the project site.

Additional Research. Additional research was performed for the project site to provide the background for the historic-period cultural properties within its boundaries (see also Field Survey Results, below). Please note that references and figures for this section are provided in Appendix B.

13813 Euclid Ave (APNs 1053-071-01, -02, and -03). The subject property was part of Mexican land grant Rancho Santa Ana del Chino. Austin A. Grant (1888 – 1953) purchased seven lots totaling 45 acres from potato farmer Charles E. Stinson. Grant started the first dairy on the property in 1922; at that time much of the land in the neighborhood was devoted to citrus orchards and row crops. Grant had come to California from his native Nova Scotia in 1903, and married Florence Tully (1890 – 1966) in 1911. Like Grant, Tully was Canadian; both of their fathers had been clergymen. The couple moved to Imperial County, where Austin Grant established a dairy. A daughter, Jessie, was born in 1914, and a son, Andrew (named after Florence's father) in 1919 (US Census records Imperial County 1920). In 1922, they relocated their young family to Ontario, purchasing property at Euclid and Schaefer Avenues where they made their home and built a model dairy business. The family apparently moved into the primary residence on the property, which appears to have been constructed during the early twentieth century, possibly by its previous owner. However, the specific construction date of the main residence on the property is unknown, and the Grants may have constructed it shortly after they purchased the dairy. Hay barns, silos, sheds, and corrals all appear to have been constructed by the Grant family beginning in the 1920s. They also planted eucalyptus along property boundaries as windbreaks. Florence Grant was active in the Methodist church as well as the clubs and charity organizations typical for elite women of the era. Her father Rev. Andrew Tully, who at this point was in his 70s, lived with the family during their early years on the property.

The Grant Dairy house and barns were sited on six-acre Lot 17 and the lots to the north and south were used for crops and pasture. In 1929, a public health survey performed by a Stanford student was reprinted in the Chino Champion; it called the Grant Dairy “one of the best equipped and one of the most sanitary.” Grant allocated 25 acres to alfalfa and 15 to corn for silage to feed his herd of 80 Jersey cows (65 of which would typically be milkers). Five acres of the property were utilized for the house, farm buildings, corrals, etc. In its early days, the dairy produced 185 gallons of raw milk a day, which was bottled and sent to Ontario for distribution; excess was delivered to a creamery. The milk barn had a concrete floor and 20 stanchions, half of which would be in use while the other half were being cleaned. It had screened windows and doors, was kept extremely clean, and there was a concrete walk between the barn and the milk house. The cows were washed and wiped clean before milking. The milk was poured into the milk house by milkers who did not enter it in order to avoid contamination, after which it was filtered through cotton cloth and cooled. The Grant Dairy had its own ice plant adjacent to the milk house as well as a boiler so hot water could be used at milkings (not a universal practice at the time). Grant closely supervised the process, and the result was milk with high butterfat and low bacteria (Chino Champion 1929).

Austin Grant was active in local lodges and clubs as well as the San Bernardino County Farm Bureau, joining its Dairy Committee shortly after establishing his Chino dairy (Pomona Progress 1924). His herd was consistently high-producing compared to others in the region; for instance, it was first in butterfat percentage at the 1937 cow testing (Chino Champion 1937). At a time when many cows had tuberculosis, Grant took extra care of his cows to ensure they were healthy and tuberculosis free (Chino Champion 1977). In 1940, Grant was elected president of the Dairy Herd Improvement Association, which was composed of local dairymen who aimed to improve their herds (Chino Champion 1940). At some point in the late 1930s or early 1940s, Grant constructed a long, narrow barn to the east of the older buildings. Research has not revealed photographs of the building, which had been demolished by the mid-1970s, but its size and footprint indicate that it was probably used for hay storage. Aerial photographs demonstrate that the current Streamline Moderne milking parlor was constructed in 1947 or 1948. Grant was a progressive dairymen who was interested in quality and sanitation throughout his career, and this milk parlor was part of the early wave of this building type in the Chino Valley and the oldest known local example of the building type. The Grants did not expand much over the years operation; in 1950, the dairy had 70 cows (which was by that time below average locally) and had added some Guernseys to its Jersey herd (Chino Champion 1950).

Jessie Grant attended business College in Los Angeles after high school graduation in the early 1930s, and after she married in 1938 continued to reside there and work as a stenographer. Andrew Grant, who was several years younger, served in the Army during World War II, and by the end of the war had become an officer. He married Doris Bird, who had grown up on a neighboring dairy, and after the war they settled on the Grant Dairy near his parents where he worked with his father. The small house south of the milk parlor appears to have been built in the late 1940s about the same time as the Streamline Moderne milking parlor, and it is likely that Andrew and Doris Grant lived there with their children.

During the 1950s and 1960s, the citrus and walnut orchards near the Grant Dairy were converted to dairies. Andrew Grant left the dairy business after his father's death in 1953 and by the late 1950s had moved off the property (US Census record San Bernardino County 1950). In 1963, Florence Grant sold the property to Alfred Fikse Jr. of Artesia (San Bernardino County Sun 1963). Fikse raised beef cattle on the property (Lake Elsinore Valley Sun Tribune 1968).

By 1973, Harm and Zwaantina “Swannie” Te Velde owned the property. Born in the Netherlands, the couple married in 1936 and came to California. They started a dairy farm, Artevel Farms, on the property (Chino Champion 1970, Chino Valley News 1983, Chino Champion 1986). Harm gained recognition by the Holstein-Friesian Association of America for his milk cows (Chino Champion 1977). In 1985, the Te Velde Trust owned the property, and it continued to pass among the eight Te Velde children. Ralph Te Velde led the farm after his father, until his death in 1998 (Chino Valley News 1979, Chino Champion 1998). In 1981, before his death, Ralph Te Velde purchased the neighboring farm, the Grassland Dairy Farm at 7275 Shaeffer Avenue, for the second Artevel Farms location (Chino Champion 1981). In 1990, Harm Te Velde died after living in Chino for 21 years (Chino Valley News 1990). In 2008, Artevel Farms became Artevel of California, LLC. In 2013, Swannie Te Velde died, leaving 116 family members. In 2023, it was the Venegas and Sons Dairy.

14095 Euclid Avenue (APNs 4053-281-04 and -05). The property was part of Mexican land grant Rancho Santa Ana del Chino. The current small parcel near the intersection was part of Lot 34 of Section 18, a roughly 300' x 900' parcel. The first known owners of Lot 34 were Byron C. Fulton (1860-1939) and his wife,Mary Jane Bailey (San Bernardino County Sun 1906). They moved from North Dakota to Chino in 1892. They purchased a large ranch property and established their home on the southeast corner of Euclid and Edison Avenues (Chino Champion 1939). They bought and sold a number of portions of their original property and other properties in Chino. In 1899, the Fulton house burned down and they moved a new house from Ontario to the northeast corner of Euclid and Edison Avenues, current address 14095 Euclid Avenue. The Fulton family appears to have stayed in the house until at least 1930. In the early 1930s, John Ephas Clapp (1876-1944) purchased all of Lot 34. Clapp was a cattle dealer and had a dairy in Chino Hills. He apparently lived on Lot 34 in a house facing Edison that was constructed about 1924 (see DPR 523 form for 7218 and 7226 Edison Avenue) with his wife, Ida Belle Clapp, and their son, Frank Clapp (Chino Champion 1941). (Since house numbers were not in use area during this period, available documents cannot definitively confirm which house they resided in.) Around 1940, the lot was divided, separating 14095 Euclid Avenue and 7218 Edison Avenue. In the 1940s, dairy farmers Mr. and Mrs. S. C. Iest, lived in the turn-of-the-century house (Chino Champion 1935, 1948). Historic aerial photographs demonstrate that the remainder of the parcel was an orchard through the middle decades of the twentieth century, and although people involved in the dairy business lived on the property at times, the parcel was never utilized as a dairy. The orchard trees were gradually replaced with large tanks for what appears to have been some type of industrial use, but research has not revealed its details.
In the 1970s, Richard Clark Madole owned the property. He married Judy Southfield in 1971 and they had a son, Richard Madole Jr. Madole worked as a hay dealer (Chino Champion 1971). Madole, Paul Abatti, and Richard Van Dyke co-owned Schafer Service in Chino

(Chino Champion 1973). In 1973, Madole started R & R Commodities, Inc. on the property (Chino Champion 1973). Madole sold it to Gregory Lyon and Paula Lyon (1948-2015). In the late 1970s, the property was home of the Euclid Decorative Rock company, owned by Gregory Lyon (b.1947) and his father-in-law, Carl Bomgardner (Chino Champion 1976). In 1977, the Lyons had their son, Andrew Gregory, while living on the property (Chino Champion 1977). In the 1980s, the property was the home of Sterling Truck Equipment and Repair, Inc. (Chino Champion 1987). In 2004, the Lyons sold the property to AB & G Cattle Company. In 2010, Suresh and Shilpa Patel purchased the property. The Patels purchased the Foss mini mart in Chino in 2004, and renamed it Mars Market (Chino Champion 2004, 2005).

7275 Schaefer Ave (APNs 1053-071-04, -01, and -03). The subject property was part of Mexican land grant Rancho Santa Ana del Chino. In the early twentieth century, the subject property (Lots 1 and 18 of Section 18 in Figure 1) was part of a larger ranch that totaled about 40 acres. By 1917, George Washington Bird (1873-1944) owned the property with his wife Birchie (U.S. Directories San Bernardino County 1917). George Bird was born in Missouri and Birchie was born in Iowa. In 1920, they were living on the ranch with seven of their children; a decade later they had five children left at home and Birchie's father was also living with them (US Census Records 1920, 1930). Bird was a contractor who built oil rigs; he apparently also operated the subject property as some type of a farm, perhaps a dairy or chicken ranch. There were some small buildings on the subject parcel during this era, but none of the current buildings had been constructed. The family home was not located on the subject property but was in a group of buildings and trees clustered along a driveway near the line of eucalyptus that marked the western border of Lot 8 (see Figures 1 and 2). The Birds had to mortgage the property during the Depression and were apparently unable to make the payments; they also had trouble meeting your property tax obligations, and an auction of all four lots was announced in 1933 (San Bernardino County Sun 1933). The family somehow managed to hang on to the property through the end of the decade, but it was finally auctioned at a trustee's sale in 1940. They moved to Upland, where George Bird died in 1944 (Pomona Progress Bulletin 1944).

Alba Lee and Frances Holmes acquired the property about 1940. Alba Lee Holmes (1913-2002) and Frances Pedley (1916-2000) had been married in 1938 and Alba worked as a machinist before they purchased the ranch (Pomona Progress Bulletin 1938). They eventually had four children (Chino Champion 2000). By 1950, Alba Lee and Frances Holmes and children Stephen, Karen, and Jeffrey apparently lived on the ranch (U.S. Census Records 1950). Presumably, they were living in the Bird house on Lot 8 which was extant at that time, but the location of their residence cannot be definitively determined because addresses were not in wide use in the area during this period. After they moved to the subject property, Alba, who usually went by Lee, listed his occupation as a farmer. Aerial photographs indicate that the western Streamline Moderne milking parlor was constructed c1958; a long narrow building probably used as a storage was constructed southeast of the milk parlor about the same time, and corrals for cattle were also built.

A second milk parlor was constructed c1965, apparently by the Holmes family. It is a virtually exact copy of the neighboring Floris Ykema Dairy's milk parlor (about a half mile directly to the south, constructed c1960) which apparently served as a template. The dairy

operation on this property made little impact on the historic record and little is known about Lee Holmes' professional life. Frances Holmes worked in the estate and planning department of Pomona College and was a longtime member of the Christian Women's Club in Chino (Chino Champion 2000). The family appears to have lived on the property until at least 1964. The east half of the property appears to have been sold during the mid-1960s.

The TeVelde family purchased the property about 1973; they also acquired the Grant Dairy to the west. Born in the Netherlands, Harm and Swannie TeVelde were married in 1936 and came to the area in 1969; they may have rented the property before purchasing it. They named the properties at Euclid and Schaefer Artevel Farms (Chino Champion 1970, Chino Valley News 1983, Chino Champion 1986). Harm gained recognition by the Holstein-Friesian Association of America for his milk cows (Chino Champion 1977). The TeVeldes had eight children. The TeVelde family purchased the Grassland Dairy Farm at 7275 Shaeffer Avenue (the subject property), which comprised the second Artevel Farms location (Chino Champion 1981). Harm and Swannie's son, John TeVelde lived on Schaefer Ave with his family starting in 1969 (Chino Champion 1969). The two residential buildings on the property were constructed after 1980. Research has not revealed when the original 40-acre Bird Ranch was subdivided, but the eastern 20 acres were under separate ownership by 1987. In 1990, Harm Te Velde died after living in Chino for 21 years (Chino Valley News 1990). In 2008, Artevel Farms became Artevel of California, LLC. In 2013, Swannie TeVelde died, leaving 116 family members. In the 2010s, the property was purchased by Daniel Drake and used as the Drake Family Farms Artisan Farmstead, for the production of goat cheese. Drake Family Farms sold their goat cheese at local farmers markets (Los Angeles Times 2012).

The subject property has no extant buildings constructed prior to the 1950s, it therefore has no potential association with the following historic contexts identified in the City of Ontario Historic Context for the New Model Colony Area: 1. Pre-1930 Rural Residential or Free-Grazing Dairy Properties and 3.1930-1949 - Dry Lot Dairying with Mechanization. Since the two milking parlors on the property were constructed during the 1950s and 1960s, it is a potential example of 4. Post-1950 - Scientific, Large Capacity Dairies, although it does not meet the minimum characteristics as analyzed in greater detail below.

7218 & 7226 Edison Ave (APNs 1053-281-01 and -02). The property was part of Mexican land grant Rancho Santa Ana del Chino. The current small parcel near the intersection was part of Lot 34 of Section 18, a roughly 300' x 900' parcel. The first known owners of Lot 34 were Byron C. Fulton (1860-1939) and his wife, Mary Jane Bailey (San Bernardino County Sun 1906). They moved from North Dakota to Chino in 1892. They purchased a large ranch property and established their home on the southeast corner of Euclid and Edison Avenues (Chino Champion 1939). They bought and sold a number of portions of their original property and other properties in Chino. In 1899, the Fulton house burned down and they moved a new house from Ontario to the northeast corner of Euclid and Edison Avenues, current address 14095 Euclid Avenue. The Fulton family appears to have stayed in the house until at least 1930. In the early 1930s, John Ephas Clapp (1876-1944) purchased all of Lot 34. Clapp was a cattle dealer and had a dairy in Chino Hills. He apparently lived on Lot 34 in the house facing Edison that was constructed about 1924 (7218 Edison Avenue) with his wife, Ida Belle Clapp, and their son, Frank Clapp (Chino Champion 1941). (Since

house numbers were not in use area during this period, available documents cannot definitively confirm which house they resided in.) The Clapps may also have operated a dairy across the street from the subject parcel. Around 1940, the lot was divided, separating 14095 Euclid Avenue and 7218 Edison Avenue. Historic aerial photographs demonstrate that the remainder of the parcel was an orchard through the middle decades of the twentieth century, and although people involved in the dairy business lived on the property at times, the parcel was never utilized as a dairy. The orchard trees were gradually replaced with large tanks for what appears to have been some type of industrial use, but research has not revealed its details.

In 1936, Claudie E. Waggoner (1913-2000) married Faye Maxwell (1915-1998) and they moved to Ontario, living at first on Grove. Around 1950, they appear to have moved onto 7218 Edison Avenue with their son, Rex and daughters Donna and Rita. They used the property as a walnut farm (Chino Champion 1963). Previously, Claudie Waggoner worked for Lucas Dairy Company. The Waggoners son, Rex Waggoner, studied soil science and agronomy at Cal Poly San Luis Obispo. After graduating, he worked as a soil scientist with the U.S. soil conservation service near Placerville. He also volunteered in the Peace Corps in Guatemala for two years, where he worked in livestock management and farming, and taught nutrition (Chino Champion 1963).

In 1957, a second house was built on the property, apparently for the Waggoner ‘s daughter Donna. In 1958, Peter S. Vander Meulen (1933-2011), Donna Waggoner Vandermuelen, and their three children lived at 7226 Edison Avenue. Starting in 1955, Vander Meulen worked as a heavy equipment operator with Blue Diamond Materials for thirty-five years. In the late 1960s, Rex Waggoner moved into the house at 7226 Edison Avenue, directly adjacent to his parents’ house at 7218 Edison Avenue. In 1971, Rex Waggoner and his wife had a son, Steven Lee (Chino Champion 1971). Faye Waggoner died in Chino in 1998 and Claudie Waggoner died four years later (U.S. Social Security Death Index 2000). After their deaths, their oldest children, Rex Waggoner and Donna Vandermeulen (1938-2021), inherited the property.

In 2003, Roger and Jennie Camping purchased the property. Roger Camping (b.1952) and his two brothers owned Eagle Livestock in Chino (Chino Champion 1989; Progress Bulletin 1972). Roger Camping raised cows to sell for beef (Chino Champion 1986). In 2020, the property was purchased by Richard and Lisa Gentry.

7244 & 7260 Edison Avenue (APNs 1053-281-01, 1053-211-05). The dairy at 7260 and 7244 Edison Avenue was Lots 19 & 36 of Section 18 of Mexican land grant Rancho Santa Ana del Chino. The roughly 18 acres of farmland changed hands several times during the first decades of the twentieth century; although there was a small building set well back from Edison Avenue near the western parcel boundary by the 1930s, there is no indication that any of its early owners lived on the property. Nor has research revealed specific information about its early agricultural use.

The older house at 7244 Edison Avenue was constructed about 1950. The first known operators of a dairy on the property were Floris and Harriet Ykema. Born in Iowa, Floris Ykema (1920-1986) married his wife, Harriet, in 1942 and they moved to California in 1945

after he served in World War II. He worked for a dairy before starting his own in Chino. In 1954, the Chino Champion reported that the property was a new dairy operated by Floris Ykema (Chino Champion 1954). Floris and Harriet moved into the house with their young daughters Alicia, Ruth Ann, and Gladys. The family attended the First Christian Reformed Church in Chino and Floris served on the board for the Ontario Christian School. The second residence at 7260 Edison Avenue was built in 1957, and the family moved into the new Ranch-style house. The Streamline Moderne milking parlor was built between the residences about the same time, and corrals for the cows as well as pole shade structures were developed to the north of the buildings.

Ykema became an industry leader in the area; in his first year of local operation, Ykema's herd had the highest butterfat average for October (Chino Champion 1954). Ykema became the president of the District 10 of the American Dairy Association of California, and the chairman of the California Milk Advisory board (Chino Champion 1973). He became an outspoken advocate for the industry and was frequently quoted in newspapers across California. The Ykema dairy operation continued to grow, and by the 1970s he was considered a major producer. He also purchased two other diaries in Chino and leased a dairy in Hanford (Chino Champion 1979). In 1979, Ykema was elected Dairyman of the Year.

In the early 1970's, the property was also home to Jim Visser (b.1944), and Thelma DeBoer Visser (b.1944) in 1966. They moved into 7244 Edison Avenue about 1970, the year their twin sons were born. Their sons, Jarrod and Arlan Visser, died after a gasoline fire in their garage in 1972 (Chino Champion 1972). The Vissers stayed on the property until at least 1974. In 1981, the Ykemas sold the property at 7260 Edison Avenue to Donald and Wilma Van Dam. They owned an additional dairy in El Mirage, the Van Dam Dairy (Chino Champion 1979). They remained in the dairy business, with property on Edison Avenue until 2005, when their family and dairy moved to New Mexico (Chino Champion 2005). In 1985, Gordon and Jo Ann Vander Meulen lived at 7260 Edison Avenue with their daughter. The same year, Norman Sterkel and Lori Lindholm lived at 7244 Edison Avenue, with their daughter Emily Ann (Chino Champion 1985). In 2008, Eugene Cellier III lived at 7260 Edison Avenue. In 2007, Cellier started the company Bottoms Up Hooftrimming in Chino. The following year he purchased Central Mower Service in Chino from the previous owner, Charles Douma.

Field Survey

BCR Consulting Archaeological Field Director Joseph Orozco, M.A., R.P.A, Crew Chief Timothy Blood, M.S. and Staff Archaeologist Doug Kazmier, B.A. completed the field survey on October 31, 2022. The project site has been completely disturbed by historic-period and modern dairy and agricultural developments, and by the installation of public utility alignments. Vegetation at the time of survey included a seasonal pumpkin patch on the northern portion of the project site and seasonal grasses were seen throughout the project area. Average visibility was approximately 50 percent and sediment comprised sandy silt with very few rocks. Two historic-period dairies and one historic-period transmission alignment were recorded during the survey and are described in detail below.

13813 Euclid Avenue. The subject property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s. It is now located on the edge of urbanized Chino, with multi-family residential development across the street to the west and dairies to the east and south. The subject property is occupied by a historic-period (c1915) residence to the north, a historic-period (late 1940s) residence to the south, and a Streamline milking parlor (c1948) with a circular driveway, as well as pole structures, sheds, and outbuildings. Historic buildings are clustered on APNs 1053-071-01 and -02. These parcels are at the heart of the historic Grant Dairy with pasture and crop land on other parcels to the north and south. The primary residence, which appears to have been constructed about 1915, is at the northwest corner of 1053-071-02 near the road and is enclosed by a low concrete masonry unit wall with a brick cap. Landscaping is untended with several mature trees and palms near the house. The house is rectangular in plan with a medium-pitch multi-gabled roof with exposed rafter tails. It is clad in stucco. There is a partial width porch with a hip roof that wraps around the main (west) and south elevations. It is supported by five paired turned wood posts atop a solid brick balustrade that has been stuccoed. It shelters the main entrance. A second entrance to the right of the porch is sheltered by a projecting shed roof. Fenestration consists of double hung wood sash windows; many are boarded up. There is a bay window on the right side of the north elevation. The building is abandoned and in poor condition with windows and doors boarded up and some sagging roofs.

Adjacent wood and metal sheds (age unknown) are northeast of the residence. The wooden shed is severely dilapidated with sections of the building falling away and a collapsed roof. The metal shed is in good condition with shed roof and aluminum windows. There is a small windowless utility structure north of the sheds.

The Streamline Moderne milking parlor (c1948) is south of the main house behind a circular driveway; there are also mature trees in its vicinity. It is rectangular in plan. The front portion of the building (the milk house/milk room) has a flat roof and is clad in stucco. It features simple references to Streamline Modern architecture including a projecting center section, curved corners, glass block, and a shaped parapet with decorative clay tile roofing. The main entrance on the primary (west) elevation is fitted with paneled wood doors and accessed by a wide concrete step. Fenestration consists of glass block windows and replacement sliding vinyl windows at the sides.

The back section of the building is an open-air facility (the milking parlor/milking barn) with a gabled metal roof with exposed rafter tails. The roof is supported by square wood posts that rest on a half-height solid stucco wall. The main entrance on the north elevation is a sliding metal door accessed by a concrete ramp connected to the front portion of the building. The building is in fair condition and appears to be in use. There is a small metal shed south of the milking parlor that also appears to be in fair condition.

The late 1940s residence is irregular in plan with a cross-gabled roof with vents on the gable ends. It is clad in stucco. A projecting shed roof on the main (north) elevation shelters the main entrance, which faces north (rather than west toward the street) and is fitted with a screen door and paneled wood door. Fenestration consists of double hung wood sash windows. There is a one-car garage to the north of the house connected via a breezeway.

Its vehicle entrance, on the west elevation, is fitted with a roll-up metal door. The building is in good condition and appears to be occupied. There is a simple corrugated metal shed between the garage and the milking parlor.

14095 Euclid Avenue. The property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s. It is now located on the edge of Ontario, with multi-family residential development across the street to the west and dairies to the east and north. The subject property is a 0.34-acre lot occupied by a historic-period (c1905/1940) residence at the west of the parcel at 14095 Euclid Avenue. A shed to the northeast of the residence is on a separate parcel, APN 1053-281-05, which is completely surrounded by APN 1053-281-04and apparently holds only a well and the shed enclosing it. The residence faces Euclid Avenue near its intersection with Edison Avenue. The small front yard is minimally landscaped and used primarily for parking and the area behind the house to the east is enclosed in a tall board fence. There are a few mature trees and palms near the house. The house is irregular in plan with a steeply-pitched cross-gabled roof with metal vents on the gable ends. Some sections of the house have minimal enclosed eaves while others have wider open eaves with exposed rafter tails. It is clad in stucco. There is a partial width porch with a projecting low-pitch shed roof on the main (west) elevation that is supported by four square wood posts. The porch shelters the main entrance, which is at the northern edge of the main façade and fitted with a metal security screen door. Fenestration consists of double-hung wood sash and aluminum replacement windows; there is also a large picture multiple-light window adjacent to the main entrance. The house is in fair condition.

7275 Schaefer Avenue. The subject property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s. It currently comprises four parcels (1053-071-04, 1053-081-01, and 1053-081-03, 1053-081-02) occupied by two historic-era milk parlors and two residences as well as outbuildings, several goat barns, hay storage structures, and an effluent pond to the south. The hay storage structures and goat barns (which were not constructed during the historic era) are near the western boundary of 1053-081-01 and overlap onto an adjacent parcel, which is currently co-owned along with the subject property but was historically part of the Grant Dairy. The milk parlors and residential buildings all face Schaefer Avenue and are clustered on APNs 1053-081-01 and 1053-081-03. The western Streamline Moderne milking parlor (c1958) is about 130 feet east of the parcel boundary behind a circular driveway. The front portion of the building (the milk house/milk room) has a flat roof and is clad in stucco. It features simple references to Streamline Modern architecture including a projecting center section, curved corners with glass block, and a shaped parapet with decorative clay tile roofing. Fenestration consists of glass block and steel casement windows. A shed-roofed addition supported by metal posts and clad in plywood obscures the original primary façade of the building. The back section of the building is an open-air facility (the milking parlor/milking barn) featuring a gabled metal roof with exposed rafter tails. It appears to be in fair-good condition, although additions and adjacent structures mostly obscure it from view.

The simple building east of the c1958 milking parlor (c1980) is apparently a storage building for farm vehicles with a residential section at its west end. It is rectangular in plan with a

corrugated metal gable roof with exposed rafter tails. It is clad in stucco with vertical groove plywood at the rear. Fenestration consists of aluminum sliding-sash. The smaller building to its east (c1990) is a prefabricated residence with cross-gabled roof and plywood cladding. Both of these non-historic buildings are in fair condition.

The eastern milk parlor (c1965) is about 20 feet east of the western parcel boundary of 1053-081-03. It has a flat roof and is clad in stucco and features eaves with moderate overhang. It is accessed from the front via three partially glazed aluminum doors that are centered in the north elevation. It features mid-century modern industrial design elements including a flat roof with overhanging eves, large windows, and horizontal massing. It is in poor-fair condition with broken and boarded up windows, rusted wall vents, and other evidence of deterioration.

7218 & 7226 Edison Avenue. The property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s. It is now located on the edge of Ontario, with multi-family residential development across the street to the west and dairies to the east and north. The subject property is a 2.06-acre lot occupied by a c1924 residence to the west at 7218 Edison Avenue and a c1957 residence to the east at 7226 Edison Avenue. The residences are in the south portion of the parcel near the road and enclosed by chain link fences. Landscaping consists of several mature trees and palms near the houses. The c1957 Ranch-style house is irregular in plan with a medium-pitch multi-gabled roof with metal vents on the gable ends. It is clad in stucco. There is a partial width porch with a gable roof on the main (south) elevation that is supported by two square wood post. It shelters the main entrance, which faces east rather than toward the street and is fitted with a wood paneled door. The porch is accessed by two wide concrete steps. Fenestration consists of replacement vinyl sliding windows. There is a garage to the east of the house, which is connected to the house by a breezeway. The garage is also clad in stucco with a gable roof and features a metal roll-up garage door.

The c1924 residence to the east of the larger c1957 residence is at the southeast corner of the parcel and exhibits the basic characteristics of Craftsman architecture. It is roughly L-shaped in plan with a jerkinhead gable roof and exposed rafter tails. It is clad in horizontal wood siding. There is a projecting partial-width porch on the main (south) elevation that is supported by two square wood posts and shelters the main entrance, which is centered and fitted with a paneled wood door and is accessed by a set of two wide concrete steps. Fenestration consists of vinyl replacement windows. There is a garage to the east of the house, which has the same roof form and pitch as the house, horizontal wood siding, and a metal roll-up garage door. The garage is connected to the house by a hyphen with clerestory windows on its main façade that appears to be a later addition.

7244 & 7260 Edison Avenue. The property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s beginning in the 1970s. It is now located on the edge of Ontario, with multi-family residential development across the street to the west and dairies to the east and north. The subject property is an 18-acre historic-era dairy with its main buildings on the 9-acre parcel (1053-281-01) adjacent to Edison Avenue and open space with some small

buildings to the north on another 9-acre parcel (1053-211-05). 1053-281-01 is occupied by a historic-period (c1950) residence to the west, a historic-period (1957) residence to the east, and a historic-period (c1958) milking parlor at the center. The residence at 7244 Edison Avenue on the west side of the parcel near the road has untended landscaping with several mature trees near the house. The Ranch-style house is irregular in plan with a medium-pitch cross-gabled roof. It is clad in horizontal wood siding with vertical roof plywood on its south elevation. The main entrance on the east elevation is left of center and sheltered only by the roof eaves. It is fitted with a metal security screen door and accessed by three concrete steps. There is a large brick chimney on the east elevation. Fenestration consists of replacement sliding sash. The building is in fair condition, with peeling paint and the south elevation is boarded up. There is a detached garage to the north of the residence. It is rectangular in plan with a gable roof with louvered vents on the gable ends. It is clad in horizontal wood siding and is fitted with a roll-up metal garage door.

The second residence at 7260 Edison Avenue is on the southeast portion of the parcel near the road. It has untended landscaping and is enclosed by a metal chain link fence. The house is rectangular in plan with a gable roof with vents on the gable ends and exposed rafter tails. It is clad in stucco. The main entrance on the main (south) elevation is centered and fitted with a metal security screen door. It is sheltered only by the roof eaves, which project slightly at the entrance. There is a second entrance on the west elevation with is sheltered by a small projecting shed roof. Primary fenestration consists of metal sliding sash with a large picture window on the main side. There is a garage attached to the west elevation; it is fitted with a metal accordion garage door. It appears to be occupied and is in good condition.

The milking parlor at the center of the parcel is accessed by a semi-circular driveway. It is rectangular in plan. The front portion of the building (the milk parlor) has a flat roof and is clad in stucco. It features simple references to Streamline Modern architecture including a projecting center section, curved corners, and a shaped parapet with decorative clay tile roofing. The main entrance is centered on the main (south) elevation and is boarded up. Fenestration consists of glass block. The back portion of the building is an open-air facility (the milking parlor/milking barn) with a gabled metal roof with exposed rafter tails. The roof is supported by square wood posts that rest on a half-height solid stucco wall. The building is in fair condition.

P-36-25540. The Southern California Edison Company Chino-Mira Loma No.1 Transmission passes through the project area in a north-westerly direction and has two sets of towers within the project boundary. One set is a steel-lattice tower with three parallel lines and the other is a larger steel-lattice tower with three sets of two parallel lines stacked on one another.

SIGNIFICANCE EVALUATIONS

During the field survey, three historic-period dairies, two historic-period rural-residential properties, and one historic-period transmission alignment were identified. CEQA calls for the evaluation and recordation of historic and archaeological resources. The criteria for determining the significance of impacts to cultural resources are based on Section 15064.5 of the *CEQA Guidelines* and Guidelines for the Nomination of Properties to the California

Register. Properties eligible for listing in the California Register and subject to review under CEQA are those meeting the criteria for listing in the California Register, or designation under a local ordinance. The dairies and rural-residential properties are evaluated for significance below. The Chino-Mira Loma Transmission Line, designated P-36-25540, was previously evaluated and determined to be ineligible for nomination to the National Register and the California Register (Tinsley-Becker 2010). The transmission alignment does not warrant further consideration as a potential historical resource for the current study.

Significance Criteria

California Register of Historical Resources. The California Register criteria are based on National Register criteria. For a property to be eligible for inclusion on the California Register or as a City Landmark, one or more of the following criteria must be met:

1. It is associated with the events that have made a significant contribution to the broad patterns of local or regional history, or the cultural heritage of California or the U.S.;
2. It is associated with the lives of persons important to local, California, or U.S. history;
3. It embodies the distinctive characteristics of a type, period, region, or method of construction, represents the work of a master, possesses high artistic values; and/or
4. It has yielded, or has the potential to yield, information important to the prehistory or history of the local area, California, or the nation.

In addition to meeting one or more of the above criteria, the California Register requires that sufficient time has passed since a resource's period of significance to "obtain a scholarly perspective on the events or individuals associated with the resources." (CCR 4852 [d][2]). The California Register also requires that a resource possess integrity. This is defined as the ability for the resource to convey its significance through seven aspects: location, setting, design, materials, workmanship, feeling, and association.

City of Ontario Designation Criteria. In addition to evaluation for California Register listing eligibility, the City of Ontario Development Code Article 26: Historic Preservation (Section 9-1.2615) provides the following designation criteria for a property to qualify as a City Historic Landmark:

a. It exemplifies or reflects special elements of the City's history;
b. It is identified with persons or events significant in local, state, or national history;
c. It is representative of the work of a notable builder, designer, architect, or artist;
d. It embodies distinguishing architectural characteristics of a style, type, period, or method of construction;
e. It is a noteworthy example of the use of indigenous materials or craftsmanship;
f. It embodies elements that represent a significant structural, engineering, or architectural achievement or innovation;
g. It has a unique location, a singular physical characteristic, or is an established and familiar visual feature of a neighborhood, community or the City; or

h. It is one of the few remaining examples in the City, region, state, or nation possessing distinguishing characteristics of an architectural or historical type or specimen.

Evaluations

13813 Euclid Avenue California Register Evaluation. Potential contextual associations are described below, followed by evaluations under California Register criteria.

Potential Contextual Associations

The Grant Dairy is potentially associated with two significant historic contexts identified in the City of Ontario Historic Context for the New Model Colony Area, which identifies building typologies connected to historic contexts significant to the development of the dairy industry in Chino Valley. It is an example of 1. Pre-1930 Rural Residential or Free-Grazing Dairy Properties and 2. Art Deco or Streamline Moderne Milk Parlors. New facts uncovered during the current study indicate that Context 2 should be revised to Streamline Moderne Milk Parlors (1940 – 1965) as discussed above.

1. Pre-1930 Rural Residential or Free-Grazing Dairy Properties minimum characteristics according to Historic Context:

   a residence that dates to the period 1900-1930 in an architectural style that exhibits little alteration, a barn (either a crib barn, large barn with loft, or early milking parlor, or one of each), a circular driveway, and open space to the rear of the property. The property could have a detached one car garage, but this characteristic is not essential.

The Grant Dairy features a residence constructed during the period of significance, but it is not a recognizable example of an architectural style from the era, nor does it exhibit little alteration. Although research has not revealed historic-era photographs of the house, it has some modest features of both late Victorian-era architecture (turned porch posts, tall double-hung windows) and some features associated with Craftsman architecture, such as its medium pitch gabled roof. Other features of the house, such as stucco cladding over original wood or brick and enclosure of the front porch appear to have been modifications after 1950. The property does have a circular driveway and open space at the rear of the property, but does not possess a barn, single car garage, or other building constructed during the period of significance for this context, and it has at least three buildings constructed after 1930. Therefore, it possesses only two of four required minimum characteristics and also has disqualifying (according to the Historic Context) newer buildings. Furthermore, at 45 acres in 1922, the Grant Dairy was far larger than typical for this property type, defined in the Historic Context as being 9 acres or less. Thus, although it was established during the period and its house dates from this era, according to the definitions of the Historic Context it has low integrity and does not exhibit the minimum characteristics of a property identified as having an association to this context. Therefore, the property does not convey its association as a pre-1930 dairy property.

2. Art Deco or Streamline Moderne Milk Parlors minimum characteristics according to Historic Context:

> modestly sized, rectangular, two part, one story milking parlor designed in the Art Deco or Streamline Moderne architectural styles. The property must exhibit those character-defining features that are generally recognized with these styles, as described above. The property also must include a circular driveway in front of the building. It may include landscaping features, but these are not essential.

The Grant Dairy Milk Parlor exhibits the minimum characteristics of the building type according to the Historic Context. (As discussed at length above, although the Historic Context incorrectly dated this building typology, it accurately described and identified the building type as significant.) Since the milking parlor retains its circular drive, glass block windows on the primary elevation, and other architectural features of the style as well as the utilitarian back section for milking, it qualifies as a high integrity example of this historic building typology and is therefore eligible for local listing according to the Historic Context within a 1940-1965 period of significance.

California Register Criteria

Criterion 1: The property at 13813 Euclid Avenue was constructed within the context of residential and agricultural development in Ontario and has important associations with the historic development of the dairy industry in the Chino Valley. It was an early example of a commercially viable dairy that, while utilizing traditional practices such as growing feed, also adopted the latest technology for keeping cows healthy and producing high-quality, low-bacteria milk. Austin Grant was considered a leader in the regional dairy world, and over his three decades on the property, his dairy was singled out as exemplary. He gave many public talks about best practices in the industry, served in leadership of dairy industry boards, and consistently won awards for the high butterfat content of Grant Dairy milk. The property appears to be one of the oldest extant dairies in the region and one of the longest-operating properties of its type. It was among the first dairies in the neighborhood to construct a modern milk house with the concrete floor and walls and glass block windows associated during that era with progressive dairying and good sanitation. It is therefore recommended eligible for the National Register and the California Register under Criterion 1.

Criterion 2: Substantial research has linked the subject property with individuals who have been notable in local history. Austin Grant was a pioneer in the dairy industry in the Ontario and Chino area. He appears to have made a lasting impact on local history, actively promoting industry best practices, sharing knowledge, and encouraging young people (including his own son) to seek careers in the dairy business. Grant lived and worked on the property for over three decades of his productive life. Therefore, the property is significantly associated with the life of an important person in our history. For these reasons, it is recommended eligible for the National Register and California Register under Criterion 2.

Criterion 3: The two residences are not significant for their architecture and the original residence has been modified outside the historic period; therefore, they do not contribute to the architectural significance of the property. The milking parlor is an excellent example of an Streamline Moderne milk parlor, which has been previously identified in a historic context statement as an important local property type. It features design elements such as the

rounded corners of the facades, a shaped parapet, glass block windows, and a flat clay tile roof. Constructed between 1947 and 1948, it was one of the first buildings of its kind in the neighborhood and a prototype for the increasing popularity of Streamline Moderne Milk parlors during the 1950s. Therefore, the property embodies the distinctive characteristics of a type of construction specifically developed for the dairy industry. For these reasons, it is recommended eligible for the National Register and California Register under Criterion 3.

Criterion 4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion 4. 13813 Euclid Ave is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard.

Integrity

Eligible resources must retain integrity sufficient to convey that eligibility and to qualify as significant resources under CEQA. Integrity is measured by the degree to which a resource retains its historic location, design, setting, materials, workmanship, feeling, and/or association. The property has not been moved and thus retains integrity of location.

Historic photographs of the property and documentary evidence indicate that there have not been any significant modifications to the milking parlor and its Streamline Moderne milk house (which are the most important character-defining features of the historic property) since its original construction. Therefore, the property retains integrity of design, materials, and workmanship.

Although the neighborhood around the Grant Dairy has become more heavily developed over the decades, the immediate vicinity of the property including adjacent parcels remains mostly open and undeveloped land, and there are several other historic-era dairies in the immediate vicinity. Therefore, the property retains integrity of setting.

The loss of associated features such as the silos and deterioration of the main house has resulted in some erosion of integrity of feeling. However, the property retains character-defining features that strongly evoke the feeling of a late 1940s milking parlor: smooth stucco finish, projecting center volume, rounded corners, shaped parapet, and decorative clay tile roof. It also retains landscape features such as a circular drive and the historic spatial relationship between dairy buildings and open space. These essential and defining features allow the building to strongly evoke the feeling of a Streamline Moderne milking parlor and convey its historic identity. It therefore retains integrity of feeling.

The physical features that characterized the original building are sufficiently intact to convey its historic character as a 1940-1965 milk parlor. It therefore retains integrity of association.

The Grant Dairy milking parlor retains sufficient integrity to convey its identity as a historic dairy building.

The subject property and its c1948 milk parlor are therefore recommended eligible for listing on the California Register, and as such qualifies as a historical resource under CEQA.

13813 Euclid Avenue City of Ontario Designation Criteria. The property meets the requirements for designation under the following criteria:

a. The property exemplifies/reflects special elements of the City's dairy history.
b. It is identified with Austin Grant-a pioneer in the dairy industry.
d. The milk parlor embodies distinguishing architectural characteristics.
h. The milk parlor is one of the few remaining examples in the region of its type.

14095 Euclid Avenue California Register Evaluation. This property was never used as a dairy and therefore has no associations with the New Model Colony.

California Register Criteria

Criterion 1: The property at 14095 Euclid Avenue was constructed within the context of residential and agricultural development in Ontario and is generally associated with the development of the Chino Valley. Research has not revealed that the property is significant within that or any other historic context. Therefore, the property is recommended not eligible to the California Register under Criterion 1.

Criterion 2: The property is not associated with the life of persons important to our history. Some of the families who lived on the property were involved in the dairy industry of Ontario but were not significant contributors to the area's development, and research has revealed no important professional accomplishments or lasting impact on local history or on agriculture. The house provided shelter for ordinary working people: farmers and business owners. Therefore, the property lacks the association required for eligibility under Criterion B/2. The property is recommended not eligible to the California Register under Criterion 2.

Criterion 3: The residence is not significant for its architecture. Research did not reveal an architect or important builder associated with its construction. The building is an unremarkable example of a turn-of-the-century dwelling that has been severely altered over the decades with multiple additions, stucco cladding, window replacement, and other modifications. It lacks decorative features or references to a particular architectural style, nor is it an outstanding example of vernacular architecture. For these reasons, it lacks the significance and integrity required for historic listing and is recommended not eligible for the California Register under Criterion 3.

Criterion 4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion 4. 14095 Euclid Avenue is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard.

14095 Euclid Avenue City of Ontario Designation Criteria. The property does not meet any of the eight City Designation Criteria, and as such does not qualify as a City Historic Landmark.

7275 Schaefer Avenue California Register Evaluation. Potential contextual associations are described below, followed by evaluations under California Register criteria.

Potential Contextual Associations

As analyzed below, it is an example of 2. Art Deco or Streamline Moderne Milk Parlors. New facts uncovered during the current study indicate that Context 2 should be revised to Streamline Moderne Milk Parlors (1940-1965).

3. Art Deco or Streamline Moderne Milk Parlors minimum characteristics according to Historic Context:

   modestly sized, rectangular, two part, one story milking parlor designed in the Art Deco or Streamline Moderne architectural styles. The property must exhibit those character-defining features that are generally recognized with these styles, as described above. The property also must include a circular driveway in front of the building. It may include landscaping features, but these are not essential.

The subject property exhibits the minimum characteristics of the building type according to the Historic Context. (As discussed at length above, although the Historic Context incorrectly dated this building typology, it accurately described it and identified it as significant.) Since the milking parlor retains its circular drive, glass block windows on the primary elevation, and other architectural features of the style as well as the utilitarian back section for milking, it qualifies as a high integrity example of this historic building typology and is therefore eligible for local listing according to the Historic Context.

4. Post-1950 – Scientific, Large Capacity Dairies minimum characteristics according to Historic Context:

   at least one large residence that dates to this period in the Ranch architectural style that exhibits little alteration, a large “herringbone style” milking parlor designed in the Ranch style, a circular driveway, numerous geometrically spaced rows of pole structures and other related dairy facilities, and a vast expanse of open space to the rear of the property. The property may have multiple large residences and a few smaller workers’ residences.

The subject property has two milking parlors that date from this era, and its c1965 milking parlor appears to exhibit the later herringbone style as required for significance under the Historic Context; it also has circular driveways. However, the current property at 20 acres is only half the size of the original ranch and not close to the average 40-acre size of properties within this context. Furthermore, the subject property lacks a large Ranch-style residence, and has no residential buildings constructed within the 1950 – 1969 period of significance for this context. Although it has numerous geometrically spaced rows of pole structures and other agricultural buildings, all were constructed well outside the historic era and appear to have been purpose-built for the current goat dairy, and therefore do not fit within this context. There has also been an addition of a prefabricated dwelling and a combination residence/vehicle storage building in a prominent location near the street and between the milking parlors outside the historic era. Buildings constructed after 1969 and the addition of manufactured homes are specifically mentioned in the Historic Context as factors that would render a dairy property developed during this era low integrity. Therefore,

according to the standards set forth by the Historic Context, the property no longer conveys its historic association as a post-1950 dairy property.

Since the property qualifies as a high integrity example of a Streamline Moderne Milk parlor is eligible for local listing under Context 2 but ineligible under the other contexts as set forth in the Historic Context.

California Register Criteria

Criterion 1: The property at 7275 Schaefer Avenue was constructed within the general context of agricultural and residential development in Ontario, however, research has revealed no significant association with important events related to the founding of that municipality, with development of the region, postwar residential expansion, the development of the dairy business, or with any other important historic context. It was one of many dairies established in the area during the twentieth century. It is therefore recommended not eligible for the National Register or the California Register under Criterion 1.

Criterion 2: Substantial research has not linked the subject property with individuals who have been notable in local, state, or national history. Its early owners were ordinary people; no houses were located on the subject property within the historic era, so it had no residents. Therefore, it lacks association with the lives of important persons in our history. For these reasons, it is recommended not eligible for the National Register or California Register under Criterion 2.

Criterion 3: The western milking parlor is an example of an important local property type. The building is an excellent example of a Streamline Moderne milk parlor, which has been previously identified in a historic context statement as an important local property type. It features design elements such as the rounded corners of the facades, a shaped parapet, glass block windows that curve around a corner, and a flat clay tile roof. It was constructed c1958, within the revised period of significance recommended for Streamline Moderne milk parlors. Although the eastern milking parlor was also constructed within the historic era, it is a lesser example of a Midcentury modern milk parlor and has also suffered alterations such as having windows boarded up; it therefore lacks the architectural significance and integrity required for historic listing. For these reasons, the western milk parlor alone is recommended eligible for the National Register or California Register under Criterion 3.

Criterion 4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion 4. The subject property is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard.

Integrity

Eligible resources must retain integrity sufficient to convey that eligibility and to qualify as significant resources under CEQA. Integrity is measured by the degree to which a resource retains its historic location, design, setting, materials, workmanship, feeling, and/or association. The property has not been moved and thus retains integrity of location.

Although additions to its façade have obscured it from view, the original historic fabric of the milk parlor appears intact beneath these additions. Therefore, the property retains integrity of design, materials, and workmanship.

Although the neighborhood around the subject property has become more heavily developed over the decades, the immediate vicinity of the property including adjacent parcels remain mostly open and undeveloped land, and there are several other historic-era dairies in the immediate vicinity. Therefore, the property retains integrity of setting.

Intrusion of non-historic-era buildings near the milking parlor has resulted in some erosion of integrity of feeling. However, the property retains character-defining features that strongly evoke the feeling of a c1958 milking parlor: smooth stucco finish, projecting center volume, rounded corners, shaped parapet, and decorative clay tile roof. These essential and defining features would allow the building to strongly evoke the feeling of a Streamline Moderne milk parlor if additions were removed. The physical features that characterized the original building are sufficiently intact to convey its historic character as a 1940 – 1965 milking parlor. It therefore retains integrity of association.

The western milking parlor retains sufficient integrity to convey its identity as a c1958 dairy building.

The subject property and its constituent c1958 milking parlor are therefore recommended eligible for listing on the California Register, and as such qualifies as a historical resource under CEQA.

7275 Schaefer Avenue City of Ontario Designation Criteria. The property meets the requirements for designation under the following criteria:

a. The property exemplifies/reflects special elements of the City's dairy history.
d. The milk parlor embodies distinguishing architectural characteristics.
h. The milk parlor is one of the few remaining examples in the region of its type.

7218 & 7226 Edison Avenue California Register Evaluation. This property was never used as a dairy and therefore has no associations with this local historic context.

California Register Criteria

Criterion 1: The property at 7218 and 7226 Edison Avenue was constructed within the context of residential and agricultural development in Ontario and is generally associated with the development of the Chino Valley. Research has not revealed that the property is significant within that or any other historic context. Therefore, the property is recommended not eligible to the California Register under Criterion 1.

Criterion 2: The property is not associated with the life of persons important to our history. The families who lived on the property were not significant contributors to the area's development, and research has revealed no important professional accomplishments or lasting impact on local history or on agriculture. The houses provided shelter for ordinary working people: farmers and business owners. Therefore, the property lacks the strength of

association required for eligibility under Criterion 2. The property is recommended not eligible to the California Register under Criterion 2.

Criterion 3: The two residences are not significant for their architecture. Research did not reveal any architects or important builders associated with their construction. The buildings are unremarkable examples of modest-sized 1920s and 1950s houses in Ontario. Although the older house has some basic elements of Craftsman architecture and the newer house is Ranch-style, neither is an outstanding example of an architectural movement. Furthermore, both have been altered outside the historic period with window replacement and other unsympathetic changes. For these reasons, they lack the significance and integrity required for historic listing and are recommended not eligible for the California Register under Criterion 3.

Criterion 4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion 4. 7218 and 7266 Edison Ave are examples of well understood types of construction and do not appear to be a principal source of important information in this regard.

7218 & 7226 Edison Avenue City of Ontario Designation Criteria. The property does not meet any of the eight City Designation Criteria, and as such does not qualify as a City Historic Landmark.

7244 & 7260 Edison Avenue California Register Evaluation. Potential contextual associations are described below, followed by evaluations under California Register criteria.

Potential Contextual Associations

The subject property has no extant buildings constructed prior to the 1950s, it therefore has no potential association with the following historic contexts identified in the City of Ontario Historic Context for the New Model Colony Area:

1. Pre-1930 Rural Residential or Free-Grazing Dairy Properties and 3.1930-1949 - Dry Lot Dairying with Mechanization. Since two milking parlor on the property was constructed during the 1950s, it is a potential example of 4. Post-1950 - Scientific, Large Capacity Dairies, although it does not meet the minimum characteristics as analyzed in greater detail below.

As analyzed below, it is an example of 2. Art Deco or Streamline Moderne Milk Parlors. New facts uncovered during the current study indicate that Context 2 should be revised to Streamline Moderne Milk Parlors (1940 – 1965).

2. Art Deco or Streamline Moderne Milk Parlors minimum characteristics according to Historic Context:

   modestly sized, rectangular, two part, one story milking parlor designed in the Art Deco or Streamline Moderne architectural styles. The property must exhibit those character-defining features that are generally recognized with these styles, as

described above. The property also must include a circular driveway in front of the building. It may include landscaping features, but these are not essential.

The subject property exhibits the minimum characteristics of the building type according to the Historic Context. (As discussed at length above, although the Historic Context incorrectly dated this building typology, it accurately described it and identified it as significant.) Since the milking parlor retains its circular drive, glass block windows on the primary elevation, and other architectural features of the style as well as the utilitarian back section for milking, it qualifies as a high integrity example of this historic building typology and is therefore eligible for local listing according to the Historic Context.

4. Post-1950 - Scientific, Large Capacity Dairies minimum characteristics according to Historic Context:

   at least one large residence that dates to this period in the Ranch architectural style that exhibits little alteration, a large “herringbone style” milking parlor designed in the Ranch style, a circular driveway, numerous geometrically spaced rows of pole structures and other related dairy facilities, and a vast expanse of open space to the rear of the property. The property may have multiple large residences and a few smaller workers’ residences.

The subject property has one Streamline Moderne milking parlors that date from this era, but it lacks a Ranch-style milking parlor exhibiting the later herringbone style as required for significance under the Historic Context; it also has a circular driveway. However, the current property at 18 acres is not close to the average 40-acre size of properties within this context. Furthermore, the subject property lacks a large Ranch-style residence. In the other facilities development during the 1950s such as the large pole structures to the north of the houses and no hardware have been demolished. Therefore, according to the standards set forth by the Historic Context, the property no longer conveys its historic association as a post-1950 Scientific, Large Capacity dairy property.

Since the property qualifies as a high integrity example of a Streamline Moderne Milk parlor is eligible for local listing under Context 2 but ineligible under the other contexts as set forth in the Historic Context.

<u>California Register Criteria</u>
Criterion 1: The property at 7244 & 7260 Edison Avenue was constructed within the context of residential and agricultural development in Ontario and is generally associated with the development of the dairy industry in the Chino Valley. Its owner and developer was Floris Ykema, a dairy industry leader who made the property an exemplary dairy almost as soon as it was established, it is significant within historic context of development of the dairy industry. Therefore, the property is recommended eligible to the California Register under Criterion 1.

Criterion 2: The property is associated with the life of a person important to our history. Floris Ykema was a leader in the industry, who began winning prizes for quality the year the property was established. He was active in the community, serving on the school board as

well as in elected positions representing the industry throughout California. Although he expanded his operation over the decades, he continued to live on the subject property for most of his productive life. Therefore, the property exhibits the association required for eligibility under Criterion B/2. The property is recommended eligible to the California Register under Criterion 2.

Criterion 3: The two residences are not significant for their architecture and do not contribute to the architectural significance of the property. Research did not reveal any architects or important builders associated with their construction. The buildings are unremarkable examples of 1950s residences in Ontario and have also been altered outside the historic era. However, the c1957 milking parlor is an excellent example of a Streamline Moderne milk parlor, which has been previously identified in a historic context statement as an important local property type. It features design elements such as the rounded corners of the facades, a shaped parapet, glass block windows, and a flat clay tile roof. For these reasons, it is recommended eligible for the California Register under Criterion 3.

Criterion 4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion 4. 7244 & 7260 Edison Ave are examples of well-understood types of construction and do not appear to be a principal source of important information in this regard.

Integrity

Eligible resources must retain integrity sufficient to convey that eligibility and to qualify as significant resources under CEQA. Integrity is measured by the degree to which a resource retains its historic location, design, setting, materials, workmanship, feeling, and/or association. The property has not been moved and thus retains integrity of location.

The original historic fabric of the milk parlor appears intact despite the entrance being boarded up. Therefore, the property retains integrity of design, materials, and workmanship.

Although the neighborhood around the subject property has become more heavily developed over the decades, the immediate vicinity of the property including adjacent parcels remain mostly open and undeveloped land, and there are several other historic-era dairies in the immediate vicinity. Therefore, the property retains integrity of setting.

Intrusion of non-historic-era buildings near the milking parlor has resulted in some erosion of integrity of feeling. However, the property retains character-defining features that strongly evoke the feeling of a c1957 milking parlor: smooth stucco finish, projecting center volume, rounded corners, shaped parapet, and decorative clay tile roof. These essential and defining features would allow the building to strongly evoke the feeling of a Streamline Moderne milk parlor if additions were removed. The physical features that characterized the original building are sufficiently intact to convey its historic character as a 1940 – 1965 milking parlor. It therefore retains integrity of association.

The milking parlor retains sufficient integrity to convey its identity as a c1957 dairy building.

The subject property and its constituent c1957 milking parlor are therefore recommended eligible for listing on the California Register, and as such qualifies as a historical resource under CEQA.

7244 & 7260 City of Ontario Designation Criteria. The property meets the requirements for designation under the following criteria:

a. The property exemplifies/reflects special elements of the City's dairy history.
b. It is identified with Floris Ykema-a prominent leader in the dairy industry.
d. The milk parlor embodies distinguishing architectural characteristics.
h. The milk parlor is one of the few remaining examples in the region of its type.

RECOMMENDATIONS

BCR Consulting conducted a cultural resources assessment of the Euclid Ave Mixed Use Specific Plan Project in the City of Ontario, San Bernardino County, California. During the research and field survey, six resources were identified, recorded, and evaluated for California Register listing eligibility (i.e. significance under CEQA). These include the historic-period Grant Dairy at 13813 Euclid Avenue, a historic-period rural-residential property at 14095 Euclid Avenue, an unnamed historic-period dairy at 7275 Schaefer Avenue, a historic-period rural-residential property at 7218 & 7226 Edison Avenue, an unnamed historic-period dairy at 7244 & 7260 Edison Avenue, and a historic-period transmission alignment designated P-36-25440. California Register listing eligibility recommendations are summarized in the below table.

Property Type	Address	California Register Eligibility
Historic-Period Grant Dairy	13813 Euclid Avenue	Recommended Eligible
Historic-Period Rural Residential	14095 Euclid Avenue	Recommended Not Eligible
Historic-Period Dairy	7275 Schaefer Avenue	Recommended Eligible
Historic-Period Rural Residential	7218 & 7226 Edison Avenue	Recommended Not Eligible
Historic-Period Dairy	7244 & 7260 Edison Avenue	Recommended Eligible
Historic-Period Transmission Alignment	P-36-25440	Recommended Not Eligible

Non-Significant Properties. The historic-period rural residential property at 14095 Euclid Avenue, the historic-period rural residential property at 7218 & 7226 Edison Avenue, and the transmission alignment designated P-36-25440 have been evaluated and are recommended not eligible for California Register eligibility. They do not warrant further consideration.

Significant Properties. The Historic-Period Grant Dairy at 13813 Euclid Avenue comprises a Streamline Moderne-style milk parlor, two residences and several ancillary buildings, and other dairy features. The dairy is recommended eligible for California Register listing under Criterion 1, 2, and 3. The property is therefore considered a "historical resource" under CEQA. However, the two residences, ancillary buildings, and other features have been modified outside the historic period. They do not contribute to the overall significance of the Grant Dairy and as such do not warrant preservation. The milk parlor is an excellent example of a Streamline Moderne milk parlor, which has been previously identified in a historic context statement as an important local property type (Galvin & Associates 2004). It

features design elements such as the rounded corners of the facades, a shaped parapet, glass block windows, and a flat clay tile roof. The Streamline Moderne milk parlor warrants preservation.

The historic-period dairy at 7275 Schaefer Avenue comprises a Streamline Moderne-style milk parlor, a second milk parlor (c1965), and two residences as well as outbuildings, several goat barns, hay storage structures, and an effluent pond to the south. Of these elements, only the Streamline Moderne-style milk parlor is eligible because it is an important local property type under Criterion 3 of the California Register. It has been previously identified in a historic context statement as an important local property type (Galvin & Associates 2004). It features design elements such as the rounded corners of the facades, a shaped parapet, glass block windows that curve around a corner, and a flat clay tile roof. The property is therefore considered a "historical resource" under CEQA, based on the significance of the milk parlor (which warrants preservation). The other buildings lack significance and do not warrant preservation under CEQA.

The historic-period dairy at 7244 & 7260 Edison Avenue comprises a historic-period residence to the west, a historic-period residence to the east, and a historic-period Streamline Moderne-style milking parlor at the center. This dairy is recommended eligible for California Register listing under Criterion 1, 2, and 3. The property is therefore considered a "historical resource" under CEQA. However, the two residences do not contribute to the overall significance of the historic-period dairy and as such do not warrant preservation. The milk parlor is an excellent example of a Streamline Moderne-style milk parlor, which has been previously identified in a historic context statement as an important local property type (Galvin & Associates 2004). It features design elements such as the smooth stucco finish, projecting center volume, rounded corners, shaped parapet, and decorative clay tile roof, and it warrants preservation under CEQA.

Preservation Mitigation. Preservation in place is the preferred manner of mitigating impacts to historical resources under CEQA. Based on results of the current study, the Art Deco Milk Parlor located at the Grant Dairy merits preservation. If preservation of the Art Deco Milk Parlor is feasible, no other cultural resources work or monitoring is recommended for the portions of the project site that have been subject to inventory. The significance of a historical resource is impaired when a project demolishes or materially alters in an adverse manner those physical characteristics of a historical resource that convey its historical significance and that justify its eligibility for the California Register. If an impact on a historical or archaeological resource is significant, CEQA requires feasible measures to minimize the impact (State CEQA Guidelines § 15126.4 (a)(1)). Mitigation of significant impacts must lessen or eliminate the physical impact that the project will have on the resource. Where preservation is not an option, a data collection mitigation program has been developed in which potential adverse effects of any proposed demolition would be reduced.

Data Collection Mitigation. Prior to any project-related impacts to significant resources, the City would complete or require the completion of Historic American Building Survey (HABS) *style* photographic documentation of the subject property. While the photographs would meet HABS standards, only local curation (and no federal curation or involvement) would be necessary. The photographic documentation will be provided to the City (and any required local repositories) for curation. However:

> In most cases the use of drawings, photographs, and/or displays does not mitigate the physical impact on the environment caused by demolition or destruction of an historical resource (14 CCR § 15126.4(b)). However, CEQA requires that all feasible mitigation be undertaken even if it does not mitigate below a level of significance. In this context, recordation serves a legitimate archival purpose. The level of documentation required as a mitigation should be proportionate with the level of significance of the resource (http://ohp.parks.ca.gov/?page_id=21727).

Through this mitigation measure, impacts to the project site would be reduced. However, it may not be possible to reduce impacts of demolition below a level of significance.

Accidental Discoveries. If previously undocumented cultural resources are identified during earthmoving activities associated with development of the project site, a qualified archaeologist should be contacted to assess the nature and significance of the find, diverting construction excavation if necessary. The current study attempted to determine whether significant archaeological deposits were present on the proposed project site. Although none were yielded during the records search and field survey, ground-disturbing activities have the potential to reveal buried deposits not observed on the surface. Prior to the initiation of ground-disturbing activities, field personnel should be alerted to the possibility of buried prehistoric or historic cultural deposits. In the event that field personnel encounter buried cultural materials, work in the immediate vicinity of the find should cease and a qualified archaeologist should be retained to assess the significance of the find. The qualified archaeologist should have the authority to stop or divert construction excavation as necessary. If the qualified archaeologist finds that any cultural resources present meet eligibility requirements for listing on the California Register or the National Register of Historic Places (National Register), plans for the treatment, evaluation, and mitigation of impacts to the find will need to be developed. Prehistoric or historic cultural materials that may be encountered during ground-disturbing activities include:

- Historic-period artifacts such as glass bottles and fragments, cans, nails, ceramic and pottery fragments, and other metal objects;
- Historic-period structural or building foundations, walkways, cisterns, pipes, privies, and other structural elements;
- Prehistoric flaked-stone artifacts and debitage (waste material), consisting of obsidian, basalt, and or cryptocrystalline silicates;
- Groundstone artifacts, including mortars, pestles, and grinding slabs;
- Dark, greasy soil that may be associated with charcoal, ash, bone, shell, flaked stone, groundstone, and fire affected rocks;
- Human remains.

Sacred Lands File Search. Findings were negative during the Sacred Lands File search with the NAHC. The results of the Sacred Lands File search are provided in Appendix C. The State Legislature added requirements regarding tribal cultural resources for CEQA in Assembly Bill 52 (AB 52) that took effect July 1, 2015. AB 52 requires consultation with California Native American tribes and consideration of tribal cultural resources in the CEQA process. By including tribal cultural resources early in the CEQA process, the legislature intended to ensure that local and Tribal governments, public agencies, and project proponents would have information available, early in the project planning process, to identify and address potential adverse impacts to tribal cultural resources. By taking this proactive approach, the legislature also intended to reduce the potential for delay and

conflicts in the environmental review process. To help determine whether a project may have such an effect, the Public Resources Code requires a lead agency to consult with any California Native American tribe that requests consultation and is traditionally and culturally affiliated with the geographic area of a Proposed Project. Since the City will initiate and carry out the required AB52 Native American Consultation, the results of the consultation are not provided in this report. However, this report may be used during the consultation process, and BCR Consulting staff is available to answer questions and address concerns as necessary.

Paleontological Resources. According to CEQA Guidelines, projects subject to CEQA must determine whether the project would "directly or indirectly destroy a unique paleontological resource". The Paleontological Overview provided in Appendix F has recommended that:

> The geologic units underlying the project area are mapped primarily as young alluvial deposits from the Holocene and late Pleistocene epochs (Morton and Miller 2006). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, Pleistocene alluvial units are considered to be highly paleontologically sensitive. The Western Science Center does not have localities within the project area or within a 1-mile radius. However, this is likely due to the project area's distance from the museum and should not be taken as indicative of paleontological sensitivity; other repositories may have localities in the area. Any fossil specimen from the Euclid Mixed Use Specific Plan Project would be scientifically significant. Excavation activity associated with the development of the project area would impact the paleontologically sensitive Pleistocene alluvial units, and it is the recommendation of the Western Science Center that a paleontological resource mitigation program be put in place to monitor, salvage, and curate any recovered fossils associated with the study area.

Human Remains. If human remains are encountered during any project activities, State Health and Safety Code Section 7050.5 states that no further disturbance shall occur until the County Coroner has made a determination of origin and disposition pursuant to Public Resources Code Section 5097.98. The County Coroner must be notified of the find immediately. If the remains are determined to be prehistoric, the Coroner will notify the NAHC, which will determine and notify a Most Likely Descendant (MLD). With the permission of the landowner or his/her authorized representative, the MLD may inspect the site of the discovery. The MLD shall complete the inspection within 48 hours of notification by the NAHC.

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(see also Appendix B)

APPENDIX A

RECORD SEARCH BIBLIOGRAPHY

Report List

KIM2223

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-01499	NADB-R - 1061499; Voided - 85-7.4A-B	1985	FOSTER, JOHN M. and ROBERTA S. GREENWOOD	CULTURAL RESOURCES OVERVIEW: CALIFORNIA PORTION, PROPOSED PACIFIC TEXAS PIPELINE PROJECT	GREENWOOD AND ASSOCIATES	
SB-02623	NADB-R - 1062623; Voided - 92-3.5	1992	TASKIRAN, AYSE and RACHEL GREELEY	CULTURAL RESOURCES ASSESSMENT: SANTA ANA WATERSHED PROJECT AUTHORITY, CHINO BASIN DESALINATION PROGRAM - PHASE I PROJECT, RIVERSIDE AND SAN BERNARDINO COUNTIES, CALIFORNIA	UNIV. OF CALIF. RIVERSIDE, ARCHAEOLOGICAL RESEARCH UNIT	
SB-02678	NADB-R - 1062678; Voided - 92-8.2	1992	BROOMHALL, LORIE L.	ADDENDUM TO CULTURAL RESOURCES ASSESSMENT: SANTA ANA WATERSHED PROJECT AUTHORITY, CHINO BASIN DESALINATION PROGRAM-PHASE I PROJECT, RIVERSIDE AND SAN	UNIV. OF CALIF. RIVERSIDE, ARCHAEOLOGICAL RESEARCH UNIT	
SB-03012	NADB-R - 1063012	1995	OWEN, SHELLEY MARIE	CULTURAL RESOURCES SURVEY AND IMPACT ASSESSMENT FOR THE CAJON/EPTC PIPELINE PROJECT LOCATED IN PORTIONS OF LOS ANGELES, SAN BERNARDINO, AND ORANGE COUNTIES, CA	EIP ASSOCIATES	36-005689, 36-005690, 36-005691, 36-008124, 36-008125
SB-03688	NADB-R - 1063688	2001	HALE, ALICE M.	CULTURAL RESOURCES INVESTIGATION: CALIFORNIA INSTITUTION FOR MEN, CHINO, CA. 7PP	GREENWOOD & ASSOCIATES	
SB-04402	NADB-R - 1064402	2004	BILLAT, LORNA	CHINO AIRPORT/CA-6115D. 14PP	EARTH TOUCH, LLC	
SB-04404	NADB-R - 1064404	2003	TANAGUCHI, CHRISTEEN	PHASE I CULTURAL RESOURCES SURVEY FOR CINGULAR TELECOMMUNICATIONS FACILITY SB-197-03 (EDISON VERIZON COLO) 14095 N. EUCLID AVE, ONTARIO, SAN BERNARDINO COUNTY, CA. 9PP	MICHAEL BRANDMAN ASSOCIATES	
SB-06095	NADB-R - 1066095	2009	Applied Earthworks	Confidential Cultural Resources Specialist Report for the Tehachapi Renewal Transmission Project.	Applied Earthworks	36-003690, 36-019845, 36-019846, 36-019847, 36-019848
SB-07898		2013	Strudwick, Ivan	Results of the Cultural Resources Assessment Survey for the Stratham Company 14-Acre Brewart Site Project in the City of Chino, San Bernardino County, California	LSA Associates, Inc.	

Report List

KIM2223

Report No.	Other IDs	Year	Author(s)	Title	Affiliation	Resources
SB-07968		2011	Holm, Lisa and John Holson	Supplemental Archaeological Survey Report: Tehachapi Renewable Transmission Project Segement 8 East (Phases 2 and 3) and West (Phase 4), Los Angeles and San Bernardino Counties, California	Pacific Legacy, Inc.	36-012533, 36-012621, 36-012622

Resource List

KIM2223

Primary No.	Trinomial	Other IDs	Type	Age	Attribute codes	Recorded by	Reports
P-36-025440		Resource Name - Chino-Mira Loma No. 1 Transmission Line	Structure	Historic	HP11	2010 (Wendy Tinsley Becker, Urbana Preservation & Planning)	SB-06037

APPENDIX B

DEPARTMENT OF PARKS AND RECREATIONS 523 FORMS

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

***Resource Name or #:** The Grant Dairy at 13813 Euclid Avenue

P1. Other Identifier: APNs 1053-071-01, 1053-071-02, 1053-071-03, 1053-071-04, 1053-211-02 , 1053-211-01, 1053-281-08

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad:** Ontario, CA **Date:** 1981 **T** 2S; **R** 7W; Non-Sectioned**;** SBBM
c. Address: 13813 Euclid Ave City: Ontario Zip: 91762
d. UTM: Zone: N/A mE/ Elevation: 2,250' AMSL
e. Other Locational Data: The property is on the east side of Euclid Avenue, just outside of Chino, in the southwest section of the city of Ontario.

***P3a. Description:** The subject property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s. It is now located on the edge of urbanized Chino, with multi-family residential development across the street to the west and dairies to the east and south. The subject property is occupied by a historic-period (c1915) residence to the north, a historic-period (late 1940s) residence to the south, and a Streamline milking parlor (c1948) with a circular driveway, as well as pole structures, sheds, and outbuildings. Historic buildings are clustered on APNs 1053-071-01 and -02. These parcels are at the heart of the historic Grant Dairy with pasture and crop land on other parcels to the north and south. The primary residence, which appears to have been constructed about 1915, is at the northwest corner of 1053-071-02 near the road and is enclosed by a low concrete masonry unit wall with a brick cap. Landscaping is untended with several mature trees and palms near the house. The house is rectangular in plan with a medium-pitch multi-gabled roof with exposed rafter tails. It is clad in stucco. There is a partial width porch with a hip roof that wraps around the main (west) and south elevations. It is supported by five paired turned wood posts atop a solid brick balustrade that has been stuccoed. It shelters the main entrance. A second entrance to the right of the porch is sheltered by a projecting shed roof. Fenestration consists of double hung wood sash windows; many are boarded up. There is a bay window on the right side of the north elevation. The building is abandoned and in poor condition with windows and doors boarded up and some sagging roofs.

Adjacent wood and metal sheds (age unknown) are northeast of the residence. The wooden shed is severely dilapidated with sections of the building falling away and a collapsed roof. The metal shed is in good condition with shed roof and aluminum windows. There is a small windowless utility structure north of the sheds.

The Streamline Moderne milking parlor (c1948) is south of the main house behind a circular driveway; there are also mature trees in its vicinity. It is rectangular in plan. The front portion of the building (the milk house/milk room) has a flat roof and is clad in stucco. It features simple references to Streamline Modern architecture including a projecting center section, curved corners, glass block, and a shaped parapet with decorative clay tile roofing. The main entrance on the primary (west) elevation is fitted with paneled wood doors and accessed by a wide concrete step. Fenestration consists of glass block windows and replacement sliding vinyl windows at the sides. (Continued on Continuation Sheet, page 3).

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



City of Ontario, San Bernardino County, California

***P4. Resources Present:**
☑ Building ☐Structure ☐Object
☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #)
Photo 1: Front façade Overview (View NE)

***P6. Date Constructed/ Age and Sources:** ☑Historic
c1915/c1948 (USDA historic aerials) ☐Prehistoric
☐Both

***P7. Owner:** Artevel of California LLC et al.

***P8. Recorded by:**
Doug Kazmier
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/31/2022

***P10. Survey Type:** *Intensive*

***P11. Report Citation:**. *Cultural Resources Assessment Euclid Mixed Use Specific Plan Project,*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A
B2. Common Name: N/A
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Streamline Moderne
***B6. Construction History:** Described in narrative, below.
***B7. Moved? ☑No ☐Yes ☐Unknown Date:** N/A **Original Location:** N/A
***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Agricultural development/Architecture
Area: Ontario New Model Colony Area **Period of Significance:** 1922 – 1953
Property Type: Dairy **Applicable Criteria:** A/1, B/2, C/3: Local Historic Context 2.
Additional Resource Attributes: N/A
(Discuss importance in terms of historical/architectural context by theme, period, and geographic scope. Address Integrity.)

(See Continuation Sheet, page 6.)

***B12. References:**

Agricultural Experiment Station. Dairy Cattle Housing. University of Wisconsin. 1949. 19.
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Belton, Herbert Logan, Long, James Dewey. Milk houses for California dairies. University of California, College of Agriculture, Agricultural Experiment Station, Berkeley. 1925. 6 – 9.
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Chino Champion
"A.A. Grant Selected President of Dairy Association." Feb 2, 1940, 2.
"Chino Dairies Rank as Number 1 Industry." June 21, 1956.
"Chino Holsteins Show High Records." Jan. 8, 1975, 4.
"Chino Dairy Activities Are on Verge of Further Expansion." Jun. 16, 1950, 1.
"Chino Dairy Herds Top All Divisions in Butterfat Tests." Dec. 17, 1937, 1.
"Chino Valley Dairies Meet Every Requirement of Sanitation Laws." Nov. 12, 1929, 15.
"Cow An 'Iron Grandma.'" Sep. 7, 1977, 11.
"Evolution of dairies in Valley told." March 29, 1940.
"FFA Membership Opens Doors for Future in Dairy." Jul. 7, 2012, 13.
"Fictitious Business Name Statement." May 29, 1981, 17.
"From Milk Stools to Herringbones." June 3, 1977, 8.
"Harm, Swannie Te Velde Celebrate 50th Anniversary." Aug. 1, 1986, 25.
(Continued on Continuation Sheet, page 16).

***B14. Evaluators:** Kara Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation:** 10/31/2022



P3A. (Continued from page 1)

The back section of the building is an open-air facility (the milking parlor/milking barn) with a gabled metal roof with exposed rafter tails. The roof is supported by square wood posts that rest on a half-height solid stucco wall. The main entrance on the north elevation is a sliding metal door accessed by a concrete ramp connected to the front portion of the building. The building is in fair condition and appears to be in use. There is a small metal shed south of the milking parlor that also appears to be in fair condition.

The late 1940s residence is irregular in plan with a cross-gabled roof with vents on the gable ends. It is clad in stucco. A projecting shed roof on the main (north) elevation shelters the main entrance, which faces north (rather than west toward the street) and is fitted with a screen door and paneled wood door. Fenestration consists of double hung wood sash windows. There is a one-car garage to the north of the house connected via a breezeway. Its vehicle entrance, on the west elevation, is fitted with a roll-up metal door. The building is in good condition and appears to be occupied. There is a simple corrugated metal shed between the garage and the milking parlor.

***P3a. Description: (continued):**



Photograph 2: 13813 Euclid Ave residence, east and north elevations, camera facing southwest, February 8 2023.



Photograph 3: 13813 Euclid Ave residence, west and south elevations, camera facing northeast, February 8, 2023.



Photograph 4: 13813 Euclid Ave overview, camera facing southwest, October 31, 2022.



Photograph 5: Sheds northeast of residence, camera facing north, February 8, 2023.



Photograph 6: 13813 Euclid Ave milk parlor, north and west elevations, camera facing southeast October 31, 2022.



Photograph 7: 13813 Euclid Ave milk parlor, north and west elevations, camera facing southeast, October 31, 2022.



Photograph 8: 13813 Euclid Ave southern residence, camera facing southeast, October 31, 2022.


Photograph 9: 3813 Euclid Ave southern residence, shed, milking parlor, camera facing east, February 8, 2023.

***B10 (continued from page 2).**

Ontario

The Gabrielino Native American group inhabited the area before the arrival of Spanish missionaries in the late eighteenth century. In 1839, after Mexico gained independence from Spain, the Mexican government granted the 12,000-acre Rancho de Cucamonga to Tiburcio Tapia. Americans began settling in California in large numbers during the Gold Rush in the 1840s, and California statehood in 1850 accelerated the process statewide. In 1881, George and William Chaffey purchased part of Rancho Cucamonga in order to develop Etiwanda, where they tested their ground-breaking irrigation and town planning ideas. That same year, the brothers purchased 6,000 acres (along with water rights) west of Etiwanda, which became the cities of Ontario and Upland. In 1883, the Chaffeys added the Kincaid Ranch at the mouth of San Antonio Canyon to their holdings. They established the Ontario Land Company and subdivided the land into 10-acre farm lots, all of which had street frontage (Emick 2011:17, 20; Clucas 2009:7).

The Chaffeys set aside a town site for Ontario as well as land for an agricultural college, making water available to each parcel in order to encourage farmers to settle there. George Chaffey laid out a boulevard named Euclid, which stretched from the Southern Pacific Depot to the mesa at the north end of their holdings. The Chaffey brothers sold off their acreage and left California for Australia in 1886. Charles Frankish had moved to Ontario from Riverside that year to participate in the Chaffeys' "Model Colony," and invested in undeveloped land along Euclid Avenue. He recruited a group of investors and formed the Ontario Land and Improvement Company, which bought the

Chaffey brothers' land holdings in 1886. Frankish acted as Manager and later President, and actively participated in the sale of real estate as well as planning and developing Ontario. Frankish carried out many of the Chaffey brothers' ideas. He extended Euclid past the depot to the south end of the company's holdings, platting the street grid and planting trees. In 1887, he organized the Ontario and San Antonio Heights Railroad Company (O&SA) as a subsidiary of the land company. In the 1890s, the O&SA constructed a hydro-electric plant at the mouth of San Antonio Canyon and electrified the system, making it the first electrified trolley west of Chicago. Ontario officially incorporated as a city in 1891. In 1912, Frankish bought the land company's Ontario-area assets and formed the Frankish Company. Frankish installed electric streetlights in Ontario, established its first bank, and was involved in nearly every aspect of local commerce and planning until his abrupt departure from the area in 1927 (Ontario City Library 2014: 7, 8, 17, 18; Swett 1969:13, 19).

Aviation interests were introduced to Ontario in 1923 when Waldo Waterman and Archie Mitchell established Latimer Field in the city limits. As more people moved to Ontario, its urban growth forced aviators eastward until they established an airport at the current location of Ontario International Airport. During World War II, Ontario's airport brought many to the area for its pilot training facilities. It was about this time that the citrus industry that had contributed to Ontario's nascent years of growth started to experience a broad decline. Land values increased as more and more Americans began moving westward and settling in the area. In subsequent years and decades, farmers sold their land to incoming residential developers. The population of Ontario swelled, and by the late 1950s, the city's residential area had expanded south and east. Manufacturing, defense, and dairy industries began to take the place of citrus as the local economic staples drawing in new residents. By the late twentieth century, manufacturing had waned and was replaced by service industries and warehousing. Today, the city has expanded to a population of more than 166,000 people living within a 50 square-mile area. The city's economic base is now heavily dependent on industrial and manufacturing, and with three freeways, three major railroads, and Ontario International Airport, the region is rich in transportation resources (City of Ontario; Galvin & Associates 2004:40-41).

Dairy Industry

The City of Ontario's Historic Context for the New Model Colony Area (Galvin & Associates 2004) has documented the local dairy industry, establishing periods of significance and a detailed framework for evaluation. The summary below draws from the context and other sources to provide sufficient historical framework to orient readers of these DPR 523 forms; the more comprehensive 2004 context may be consulted for additional detail.

Ontario and Chino are located in the Chino Valley basin of southwestern San Bernardino County. Dairy cows came to California with American settlers during the Gold Rush, and by 1876, a State Dairyman's Association had been organized. Dairies were first established in Chino Valley in the 1890s. The first dairy was most likely the Steel and Green Dairy, comprised of adobe buildings on the site of the Battle of Chino. The industry was based on free grazing during this era, and the availability of large tracts of fertile and inexpensive pastureland drew dairy farmers from Los Angeles County. However, most dairies in the region remained closer to Los Angeles population centers for several decades and citrus groves dominated the landscape through the end of the 1940s. Through 1930, the dairies in the region were small family businesses. Yet, by 1915, milk shipments already totaled over 6,000 pounds out of Chino. As Los Angeles County grew in population, so did the regional dairy industry. In the 1920s, many Dutch immigrants started dairy farms near Los Angeles. In the 1930s, to optimize milk production, dairies began switching from free grazing to dry-lot dairying and mechanized milking (Chino Champion 1977).

In the early years, the milking equipment was sanitized with steam tanks heated by oil burners. By 1920, dairy health and sanitation laws were established. Milk was originally filtered through cloth into the cans it was shipped in. The new laws required that a milk house had to be at least sixty feet from the barn, milkers must wear clean clothes before each milking, and milk house drains were constantly flushed with water. New ammonia colling systems were also created. After World War I, many cows in California had tuberculosis, thus pasteurization became a requirement. The Dairy Herd Improvement Association (DHIA), formerly the Cow Testing Association, was also created to improve the quality of the milk cattle (Chino Champion 1977). The association was started in the United States in 1906 by Danish immigrant Helmer Rabild and a small group of dairy farmers in Michigan. The Diary Division of the U.S. Department of Agriculture was the biggest supporter of the DHIA. By 1926, over one-hundred associations were established across the country (Arnold 1956).

During and after World War II, the Los Angeles Basin grew as a metropolitan area, pushing dairies to peripheral areas such as Chino Valley. In 1949, Chino dairies produced one-third of the total dairy production in San Bernardino County (Chino Champion 1950). In 1950, there were 79 dairies with an average of 145 cows to a herd in the Chino area (Chino Champion 1950). Suburbanization in Los Angeles County allowed dairymen, many of whom were Dutch, to purchase larger acreage and build bigger homes in Chino Valley. During this era, local dry lot operations (which purchased all feed) began to replace traditional dairy farms, which grew some or all cattle feed. By 1957, there were more than 135 dairies in Chino Valley. The late 1950s and early 1960s dairies established in Chino Valley were the most technologically sophisticated in the US, capable of milking 450 cows a day for each worker. Herringbone milking parlors, in which cows were raised on a platform so milkers did not have to kneel, became popular during this era to control labor costs. In 1960, an agricultural dairy preserve was established to protect the land from development, and by 1965, there were around 350 dairies in Chino Valley (Chino Champion 1977). In 1979, sixty percent of milk produced in California was from Chino Valley (Galvin & Associates 2004). Dairy products became California's number one agricultural commodity in 1993, and the state continued to lead the country in milk production throughout the twenty-first century (California Dairy Press Room & Resources 2023).

Streamline Moderne Milking Parlors

The City of Ontario's Historic Context for the New Model Colony Area (Galvin & Associates 2004) identified an unusual building type that characterizes historic-era dairies in the Ontario area, stating that the survey area has one of the largest concentrations of this building type in California. These milk parlors (also called milk houses or milk plants) are two-part buildings: a long, narrow shed with milking stalls for

cows connected to a small cooling and processing building near a circular drive. The large utilitarian area where the cows are milked (historically referred to as the milking barn or milking parlor) has concrete masonry unit walls with large unglazed openings for ventilation and gabled roof. Floors are concrete for easy cleaning; stalls for cows are likewise designed for sanitation of concrete with metal stanchions. The processing/cooling/storage section of this building type (historically called the milk house or milk room) was not designed to be entered by cows or milkers. The milk houses are more visible from the public right-of-way than the barns, and thus more attention was paid to their aesthetic design. Many early examples, as documented in the Historic Context, exhibit simple Streamline Moderne architectural features including smooth symmetrical massing, stucco cladding, flat roofs with coping, curvilinear corners, and glass block windows. Larger and more elaborate examples have projecting center volumes, some with glass block at the curved corner.

The Historic Context theorized that these buildings would "most likely" have been constructed between 1920 and 1940, stating that more decorative Art Deco-style examples with geometric and angular edges as well as decorative chevrons or zigzags would have been constructed between 1920 and 1930, and that dairy owners transitioned to the Streamline Moderne style as described above between 1930 and 1940. Although revision of the 2004 Historic Context is outside the scope of the current study, some of the more serious flaws and inconsistencies within its discussion of this property type must be addressed in order to evaluate examples of this building type. The Context accurately describes the building type and correctly states that the Ontario/Chino area appears to boast the largest concentration of the property type in the state. However, the Context does not provide any photographic examples of the more decorative Art Deco-style milk parlors that it states would have been constructed before 1930, nor have recent field investigations revealed any dairy buildings with ornamental features that directly reference Art Deco architecture; the existence of dairy buildings with strongly Art Deco ornament appears to have been conjectural. A careful reading of the Historic Context and a review of its bibliography reveal that no sources on Art Deco or Streamline Moderne architecture were cited (in contrast to its extensive bibliography on Ranch Style architecture). Nor does the bibliography include sources focused on the architecture of dairies, the development of dairy building typology over the twentieth century, the technical requirements of twentieth century dairy buildings, or contemporaneous trade journals that discuss best practices for dairy building construction. Furthermore, pages 44 – 48 of the Context have no citations whatsoever. Thus, close examination reveals that its preparers developed the 1920 – 1940 period of significance based on the widely understood fact that the Art Deco/Streamline Moderne architectural movement was popular during this era and that Streamline Moderne grew out of Art Deco during the Great Depression. However reasonable this assumption may have been, it was not based on evidence. As demonstrated below, these buildings were not developed between 1920 and 1940.

The use of glass block is virtually ubiquitous in these milk plants and is one of the most important character-defining features of the building type. Glass block construction was pioneered in the US for a New York hotel built in 1928. Production of glass block began about 1932 and the material was featured at the 1933 – 1934 Chicago Century of Progress International Exhibition and the 1939 World's Fair in New York, helping to popularize it. The height of its use was from the late 1930s through the 1940s. It became an essential element of the Streamline Moderne style since it could be incorporated into curving wall surfaces (Fagan 2015). The development history of this material definitively demonstrates that Streamline Moderne milking parlors could not have been constructed in the Chino Valley prior to 1933 at the absolute earliest. In 1925, the University of California College of Agriculture published recommendations for milk house design and construction. Although concern for sanitary conditions had led to a recommendation for the use of concrete flooring for milking parlors and milk houses during this era, best practice continued to advise wood-frame wall construction with wood sheathing and double-hung wood sash windows with screens. In the 1920s, glass block and concrete masonry units were not yet being recommended as building materials by organizations promoting progressive dairying (Belton 1925).

Although glass block was in production by the mid-1930s and theoretically could have been utilized, its use for dairy buildings would have been unlikely, since building materials trends begin in urban areas and arrive later to farming operations, where utilitarian considerations are more important than style. Review of historic aerial photographs provides further evidence that the building type was not in local use during the 1920s and 1930s. Review of historic aerial photographs for a roughly two square mile area (including the current project area) has revealed that it eventually held at least 17 of these buildings. Only two milking parlors that fit the typology had been constructed by 1949 and by 1953 there were still only two in the study area (USDA Aerial Photographs 1949, 1953, 1975). Furthermore, review of local newspapers reveals few if any new dairies established during the 1930s, and expansion of existing operations appears to have been modest during these Great Depression years. Extensive comparative research has revealed no existing California cultural resource reports or academic papers that have analyzed the building type. Several historic photographs of Los Angeles County dairies were discovered, and these demonstrate that the property type was in use in areas like Bellflower and Artesia during the 1940s and 1950s; the oldest dated photograph of a Streamline Moderne milking parlor in Artesia is from 1940. The Streamline Moderne milking parlor appears to have traveled from Los Angeles County to Ontario in the 1940s as dairymen began to move their operations to western San Bernardino County, and the trend accelerated rapidly in the mid-1950s along with the continued migration of dairies to Chino Valey. A 1940 article in the Chino Champion describes the Abacherli Dairy at the intersection of Walnut and San Antonio avenues as a state-of-the-art local dairy plant. Although the article does not include photographs, a milk house of concrete construction with concrete floors is described and may have been an early example of the typology (Chino Champion 1940). By 1947, the Journal of Dairy Science was recommending glass block for use in milk processing plants because it provided illumination without allowing dirt to infiltrate like an open window. The same publication also praises its "modern look" (Nelson: 1947). Other dairy-oriented publications also recommended use of the glass block and masonry construction in the late 1940s (University of Wisconsin: 1949). And the extant Streamline Moderne milk parlor at the Grant Dairy (in the current study area) is known to have been built in 1947 or 1948.

The local popularity of glass block in milking parlors appears to have peaked in the 1950s, when many local examples of this building type were constructed. Glass blocks were heavily advertised in dairy trade journals throughout the 1950s, and construction of the building

typology continued into the 1960s. A Streamline Moderne milking parlor appears in a 1956 article contrasting "modern dairy plants" with the large wooden barns of the early twentieth century (Chino Champion 1956). (Although its construction date is not specifically mentioned, it would be unlikely for a local newspaper to tout a building as "modern" if it were more than two or three years old.) Although documents that substantiate exact dates for construction of Streamline Moderne milk parlors in Ontario have not been discovered, available evidence indicates that most were constructed between 1940 and 1965. Since we have demonstrated that the actual construction of this building type did not take place within the Art Deco era (1920 – 1940) this study will use Streamline Moderne Milk Parlor in reference to this building type and will consider the period of significance 1940 – 1965.

Subject Property History

The subject property was part of Mexican land grant Rancho Santa Ana del Chino. Austin A. Grant (1888 – 1953) purchased seven lots totaling 45 acres from potato farmer Charles E. Stinson. Grant started the first dairy on the property in 1922; at that time much of the land in the neighborhood was devoted to citrus orchards and row crops. Grant had come to California from his native Nova Scotia in 1903, and married Florence Tully (1890 – 1966) in 1911. Like Grant, Tully was Canadian; both of their fathers had been clergymen. The couple moved to Imperial County, where Austin Grant established a dairy. A daughter, Jessie, was born in 1914, and a son, Andrew (named after Florence's father) in 1919 (US Census records Imperial County 1920). In 1922, they relocated their young family to Ontario, purchasing property at Euclid and Schaefer Avenues where they made their home and built a model dairy business. The family apparently moved into the primary residence on the property, which appears to have been constructed during the early twentieth century, possibly by its previous owner. However, the specific construction date of the main residence on the property is unknown, and the Grants may have constructed it shortly after they purchased the dairy. Hay barns, silos, sheds, and corrals all appear to have been constructed by the Grant family beginning in the 1920s. They also planted eucalyptus along property boundaries as windbreaks. Florence Grant was active in the Methodist church as well as the clubs and charity organizations typical for elite women of the era. Her father Rev. Andrew Tully, who at this point was in his 70s, lived with the family during their early years on the property.

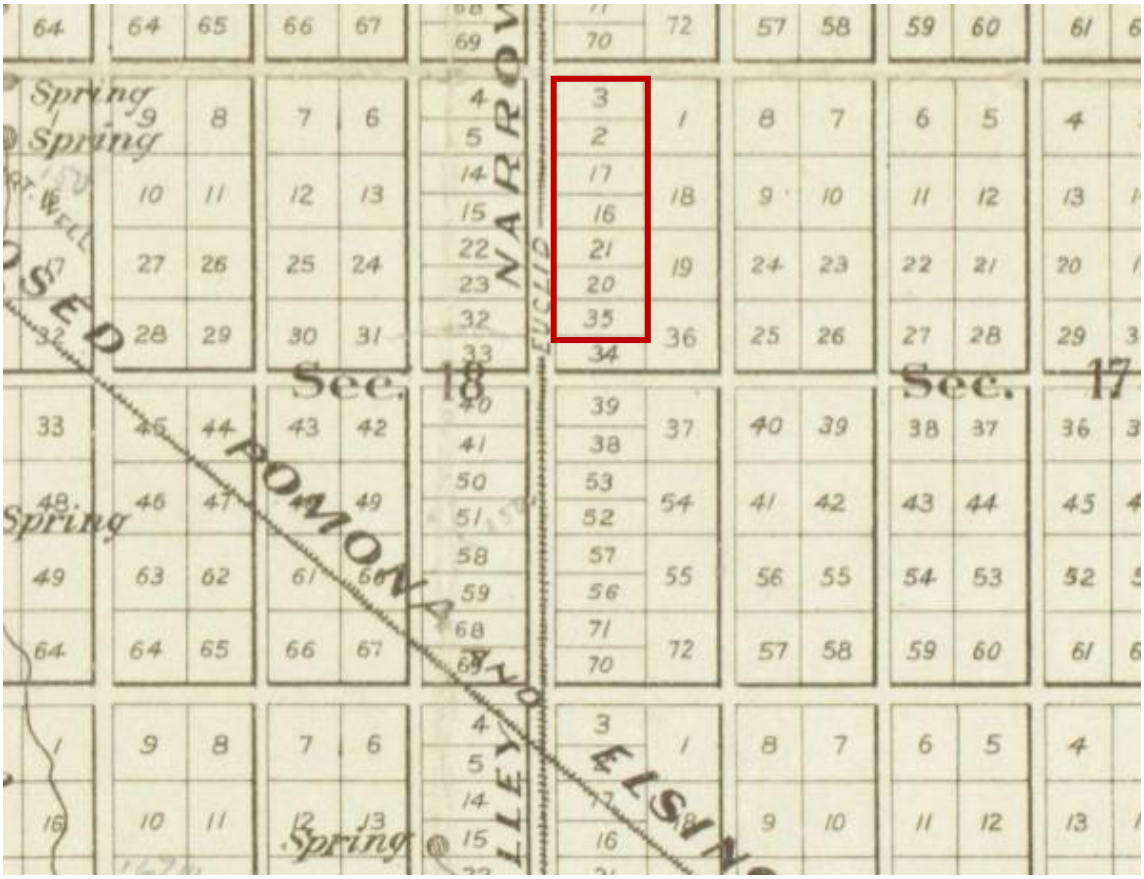


Figure 1: Britton & Rey Map of Subdivision of Rancho Santa Ana del Chino, 1889, Grant property outlined in red.

The Grant Dairy house and barns were sited on six-acre Lot 17 and the lots to the north and south were used for crops and pasture. In 1929, a public health survey performed by a Stanford student was reprinted in the Chino Champion; it called the Grant Dairy "one of the best equipped and one of the most sanitary." Grant allocated 25 acres to alfalfa and 15 to corn for silage to feed his herd of 80 Jersey cows (65 of which would typically be milkers). Five acres of the property were utilized for the house, farm buildings, corrals, etc. In its early days, the dairy produced 185 gallons of raw milk a day, which was bottled and sent to Ontario for distribution; excess was delivered to a creamery. The milk barn had a concrete floor and 20 stanchions, half of which would be in use while the other half were being cleaned. It had screened

windows and doors, was kept extremely clean, and there was a concrete walk between the barn and the milk house. The cows were washed and wiped clean before milking. The milk was poured into the milk house by milkers who did not enter it in order to avoid contamination, after which it was filtered through cotton cloth and cooled. The Grant Dairy had its own ice plant adjacent to the milk house as well as a boiler so hot water could be used at milkings (not a universal practice at the time). Grant closely supervised the process, and the result was milk with high butterfat and low bacteria (Chino Champion 1929).



Figure 2: Grant Dairy with primary residence near street, three rows or orchard trees south of house, and original dairy buildings (no longer extant) southeast of house, USDA Aerial, 1936.

Austin Grant was active in local lodges and clubs as well as the San Bernardino County Farm Bureau, joining its Dairy Committee shortly after establishing his Chino dairy (Pomona Progress 1924). His herd was consistently high-producing compared to others in the region; for instance, it was first in butterfat percentage at the 1937 cow testing (Chino Champion 1937). At a time when many cows had tuberculosis, Grant took extra care of his cows to ensure they were healthy and tuberculosis free (Chino Champion 1977). In 1940, Grant was elected president of the Dairy Herd Improvement Association, which was composed of local dairymen who aimed to improve their herds (Chino Champion 1940). At some point in the late 1930s or early 1940s, Grant constructed a long, narrow barn to the east of the older buildings. Research has not revealed photographs of the building, which had been demolished by the mid-1970s, but its size and footprint indicate that it was probably used for hay storage. Aerial photographs demonstrate that the current Streamline Moderne milking parlor was constructed in 1947 or 1948. Grant was a progressive dairymen who was interested in quality and sanitation throughout his career, and this milk parlor was part of the early wave of this building type in the Chino Valley and the oldest known local example of the building type. The Grants did not expand much over the years operation; in 1950, the dairy had 70 cows (which was by that time below average locally) and had added some Guernseys to its Jersey herd (Chino Champion 1950).

Jessie Grant attended business College in Los Angeles after high school graduation in the early 1930s, and after she married in 1938 continued to reside there and work as a stenographer. Andrew Grant, who was several years younger, served in the Army during World War II, and by the end of the war had become an officer. He married Doris Bird, who had grown up on a neighboring dairy, and after the war they settled on the Grant Dairy near his parents where he worked with his father. The small house south of the milk parlor appears to have been

built in the late 1940s about the same time as the Streamline Moderne milking parlor, and it is likely that Andrew and Doris Grant lived there with their children.



Figure 3: Grant Dairy with primary residence near street, three rows or orchard trees are still south of house with no Streamline Moderne milking parlor, original dairy buildings remain southeast of house, and a long barn has been constructed east of the older dairy buildings, USDA Aerial, 1946.



Figure 4: Grant Dairy with original residence northernmost building, Streamline Moderne milking parlor (blue arrow) has replaced third row of orchard trees, and secondary residence has been constructed to the south (orange arrow), USDA Aerial, 1949.

During the 1950s and 1960s, the citrus and walnut orchards near the Grant Dairy were converted to dairies. Andrew Grant left the dairy business after his father's death in 1953 and by the late 1950s had moved off the property (US Census record San Bernardino County 1950). In 1963, Florence Grant sold the property to Alfred Fikse Jr. of Artesia (San Bernardino County Sun 1963). Fikse raised beef cattle on the property (Lake Elsinore Valley Sun Tribune 1968).



Figure 5: Grant Dairy milking parlor, late 1940s (No date, Ancestry.com)



Figure 6: Austin Grant with his dairy herd on the property (No date, Ancestry.com)

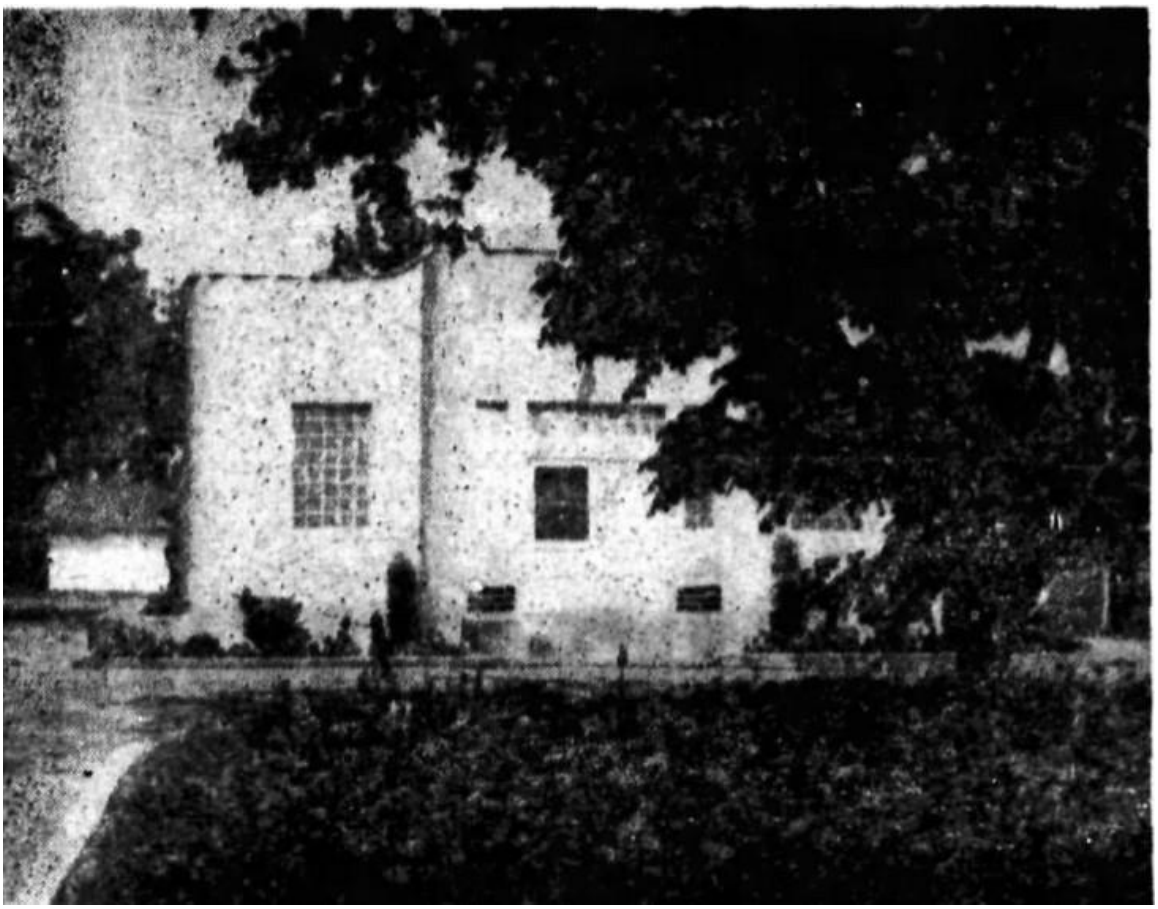


Figure 7: Grant Dairy milking parlor (June 16, 1950, Chino Champion).

By 1973, Harm and Zwaantina "Swannie" Te Velde owned the property. Born in the Netherlands, the couple married in 1936 and came to California. They started a dairy farm, Artevel Farms, on the property (Chino Champion 1970, Chino Valley News 1983, Chino Champion 1986). Harm gained recognition by the Holstein-Friesian Association of America for his milk cows (Chino Champion 1977). In 1985, the Te Velde Trust owned the property, and it continued to pass among the eight Te Velde children. Ralph Te Velde led the farm after his father, until his death in 1998 (Chino Valley News 1979, Chino Champion 1998). In 1981, before his death, Ralph Te Velde purchased the neighboring farm, the Grassland Dairy Farm at 7275 Shaeffer Avenue, for the second Artevel Farms location (Chino Champion 1981). In 1990, Harm Te Velde died after living in Chino for 21 years (Chino Valley News 1990). In 2008, Artevel Farms became Artevel of California, LLC. In 2013, Swannie Te Velde died, leaving 116 family members. In 2023, it was the Venegas and Sons Dairy.

Evaluation of New Model Colony Area Associations

The Grant Dairy is potentially associated with two significant historic contexts identified in the City of Ontario Historic Context for the New Model Colony Area, which identifies building typologies connected to historic contexts significant to the development of the dairy industry in Chino Valley. It is an example of 1. Pre-1930 Rural Residential or Free-Grazing Dairy Properties and 2. Art Deco or Streamline Moderne Milk Parlors. New facts uncovered during the current study indicate that Context 2 should be revised to Streamline Moderne Milk Parlors (1940 – 1965) as discussed above.

1. Pre-1930 Rural Residential or Free-Grazing Dairy Properties minimum characteristics according to Historic Context:

> a residence that dates to the period 1900-1930 in an architectural style that exhibits little alteration, a barn (either a crib barn, large barn with loft, or early milking parlor, or one of each), a circular driveway, and open space to the rear of the property. The property could have a detached one car garage, but this characteristic is not essential.

The Grant Dairy features a residence constructed during the period of significance, but it is not a recognizable example of an architectural style from the era, nor does it exhibit little alteration. Although research has not revealed historic-era photographs of the house, it has some modest features of both late Victorian-era architecture (turned porch posts, tall double-hung windows) and some features associated with Craftsman architecture, such as its medium pitch gabled roof. Other features of the house, such as stucco cladding over original wood or brick and enclosure of the front porch appear to have been modifications after 1950. The property does have a circular driveway and open space at the rear of the property, but does not possess a barn, single car garage, or other building constructed during the period of significance for this context, and it has at least three buildings constructed after 1930. Therefore, it possesses only two of four required

minimum characteristics and also has disqualifying (according to the Historic Context) newer buildings. Furthermore, at 45 acres in 1922, the Grant Dairy was far larger than typical for this property type, defined in the Historic Context as being 9 acres or less. Thus, although it was established during the period and its house dates from this era, according to the definitions of the Historic Context it has low integrity and does not exhibit the minimum characteristics of a property identified as having an association to this context. Therefore, the property does not convey its association as a pre-1930 dairy property.

2. Art Deco or Streamline Moderne Milk Parlors minimum characteristics according to Historic Context:

> modestly sized, rectangular, two part, one story milking parlor designed in the Art Deco or Streamline Moderne architectural styles. The property must exhibit those character-defining features that are generally recognized with these styles, as described above. The property also must include a circular driveway in front of the building. It may include landscaping features, but these are not essential.

The Grant Dairy Milk Parlor exhibits the minimum characteristics of the building type according to the Historic Context. (As discussed at length above, although the Historic Context incorrectly dated this building typology, it accurately described and identified the building type as significant.) Since the milking parlor retains its circular drive, glass block windows on the primary elevation, and other architectural features of the style as well as the utilitarian back section for milking, it qualifies as a high integrity example of this historic building typology and is therefore eligible for local listing according to the Historic Context within a 1940 – 1965 period of significance.

National Register and California Register Evaluation

The National Register of Historic Places and California Register of Historical Resources require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible. A resource is eligible if (A/1) it is associated with events that have made a significant contribution to the broad patterns of our history; (B/2) it is associated with the lives of persons important in our past; (C/3) it embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic value; or (D/4) it has yielded or is likely to yield information important in prehistory or history. The California Register also requires that sufficient time has passed since a resource's period of significance (normally 45 years) to "obtain a scholarly perspective on the events or individuals associated with the resources" (CCR 4852 [d][2]).

Criterion A/1: The property at 13813 Euclid Avenue was constructed within the context of residential and agricultural development in Ontario and has important associations with the historic development of the dairy industry in the Chino Valley. It was an early example of a commercially viable dairy that, while utilizing traditional practices such as growing feed, also adopted the latest technology for keeping cows healthy and producing high-quality, low-bacteria milk. Austin Grant was considered a leader in the regional dairy world, and over his three decades on the property, his dairy was singled out as exemplary. He gave many public talks about best practices in the industry, served in leadership of dairy industry boards, and consistently won awards for the high butterfat content of Grant Dairy milk. The property appears to be one of the oldest extant dairies in the region and one of the longest-operating properties of its type. It was among the first dairies in the neighborhood to construct a modern milk house with the concrete floor and walls and glass block windows associated during that era with progressive dairying and good sanitation. It is therefore recommended eligible for the National Register and the California Register under Criterion A/1.

Criterion B/2: Substantial research has linked the subject property with individuals who have been notable in local history. Austin Grant was a pioneer in the dairy industry in the Ontario and Chino area. He appears to have made a lasting impact on local history, actively promoting industry best practices, sharing knowledge, and encouraging young people (including his own son) to seek careers in the dairy business. Grant lived and worked on the property for over three decades of his productive life. Therefore, the property is significantly associated with the life of an important person in our history. For these reasons, it is recommended eligible for the National Register and California Register under Criterion B/2.

Criterion C/3: The two residences are not significant for their architecture and the original residence has been modified outside the historic period; therefore, they do not contribute to the architectural significance of the property. The milking parlor is an excellent example of an Streamline Moderne milk parlor, which has been previously identified in a historic context statement as an important local property type. It features design elements such as the rounded corners of the facades, a shaped parapet, glass block windows, and a flat clay tile roof. Constructed between 1947 and 1948, it was one of the first buildings of its kind in the neighborhood and a prototype for the increasing popularity of Streamline Moderne Milk parlors during the 1950s. Therefore, the property embodies the distinctive characteristics of a type of construction specifically developed for the dairy industry. For these reasons, it is recommended eligible for the National Register and California Register under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. 13813 Euclid Ave is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard.

Integrity. Eligible resources must retain integrity sufficient to convey that eligibility and to qualify as significant resources under CEQA. Integrity is measured by the degree to which a resource retains its historic location, design, setting, materials, workmanship, feeling, and/or association. The property has not been moved and thus retains integrity of location.

Historic photographs of the property and documentary evidence indicate that there have not been any significant modifications to the milking parlor and its Streamline Moderne milk house (which are the most important character-defining features of the historic property) since its original construction. Therefore, the property retains integrity of design, materials, and workmanship.

Although the neighborhood around the Grant Dairy has become more heavily developed over the decades, the immediate vicinity of the property including adjacent parcels remains mostly open and undeveloped land, and there are several other historic-era dairies in the immediate vicinity. Therefore, the property retains integrity of setting.

The loss of associated features such as the silos and deterioration of the main house has resulted in some erosion of integrity of feeling. However, the property retains character-defining features that strongly evoke the feeling of a late 1940s milking parlor: smooth stucco finish, projecting center volume, rounded corners, shaped parapet, and decorative clay tile roof. It also retains landscape features such as a circular drive and the historic spatial relationship between dairy buildings and open space. These essential and defining features allow the building to strongly evoke the feeling of a Streamline Moderne milking parlor and convey its historic identity. It therefore retains integrity of feeling.

The physical features that characterized the original building are sufficiently intact to convey its historic character as a 1940 – 1965 milk parlor. It therefore retains integrity of association.

The Grant Dairy milking parlor retains sufficient integrity to convey its identity as a historic dairy building.

The subject property and its c1948 milk parlor are therefore recommended eligible for listing on the National Register or the California Register, and as such qualifies as a historical resource under the California Environmental Quality Act (CEQA). Thus, BCR Consulting recommends the National Register of Historic Places Status Code "3S".

***B12. References (Cont.):**

Chino Champion (Cont.)
"Obituaries: Ralph Te Velde." Jun. 25, 1998, 3.
"Registered Cow Records Given." Aug. 19, 1970, 3.
"Statement of Abandonment of Use of Fictitious Bus. Name." May 29, 1981, 20.
Chino Hills Champion. "Obituaries: Zwaantina Te Velde." Jan. 26, 2013, 17.
Chino Valley News
"Artevel Farms-Ralph TeVelde." Oct. 24, 1979, 20.
"Obituaries: Harm TeVelde." Jan. 17, 1990, 9.
"Obituaries: Sonja Te Velde." Dec. 14, 1983, 22.
Clucas, Donald Laine., Anderson, Marilyn. Upland. Arcadia Publishing: Charleston, South Carolina. 2009.
Emick, Paula. Images of America: Rancho Cucamonga. Arcadia Publishing: Charleston, South Carolina. 2011.
Fagan, Elizabeth. BUILDING WALLS OF LIGHT: THE DEVELOPMENT OF GLASS BLOCK AND ITS INFLUENCE ON AMERICAN ARCHITECTURE IN THE 1930s. Master's Thesis, Graduate School of Architecture, Planning, and Preservation, Columbia University. May 2015. 1, 23.
Galvin & Associates. "The City of Ontario's Historic Context for the New Model Colony Area." Sept. 2004.
Lake Elsinore Valley Sun Tribune. "Elsinore entries at fair bring good net at auction." August 29, 1968, 1.
Nelson, F.E., ed. Journal of Dairy Science Vol XXX. American Dairy Science Association, Ohio State University, Columbus Ohio. October 1947.
City of Ontario. "History" https://www.ontarioca.gov/FactsAndHistory. Accessed August 8. 2022. Undated.
Ontario City Library. Early Ontario. Arcadia Publishing: Charleston, South Carolina. 2014.
San Bernardino County Sun
"Artesia Man Buys Grant Dairy Land." Feb. 22, 1963, 22.
"Charles E. Stinson to Austin A. Grant." Nov 12, 1922, 22.
Swett, Ira. *The Ontario & San Antonio Heights Railroad Company: Pacific Electric in Ontario & Claremont.* Interurbans Publications, 1969.
US Census records
Austin Grant. Imperial County. 1920.
Austin Grant. San Bernardino County. 1950.

2P1. Other Identifier: APN 1053-281-04

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** Ontario, CA **Date:** 1967 **T** 2S; **R** 7W; Section 18**;** SBBM

c. Address: 14095 Euclid Avenue City: Ontario Zip: 91762

d. UTM: Zone: N/A mE/ Elevation:

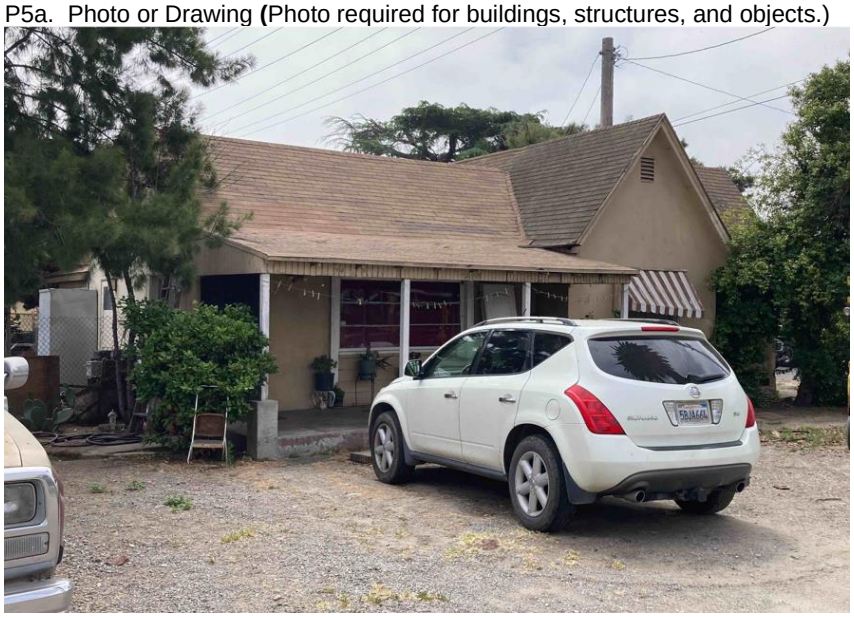
e. Other Locational Data: The property is on the north side of Edison Avenue and the east side of Euclid Avenue, just outside of Chino, in the southwest section of the city of Ontario.

***P3a. Description:** The property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s. It is now located on the edge of Ontario, with multi-family residential development across the street to the west and dairies to the east and north. The subject property is a 0.34-acre lot occupied by a historic-period (c1905/1940) residence at the west of the parcel at 14095 Euclid Avenue. A shed to the northeast of the residence is on a separate parcel, APN 1053-281-05, which is completely surrounded by APN 1053-281-04 and apparently holds only a well and the shed enclosing it. The residence faces Euclid Avenue near its intersection with Edison Avenue. The small front yard is minimally landscaped and used primarily for parking and the area behind the house to the east is enclosed in a tall board fence. There are a few mature trees and palms near the house. The house is irregular in plan with a steeply-pitched cross-gabled roof with metal vents on the gable ends. Some sections of the house have minimal enclosed eaves while others have wider open eaves with exposed rafter tails. It is clad in stucco. There is a partial width porch with a projecting low-pitch shed roof on the main (west) elevation that is supported by four square wood posts. The porch shelters the main entrance, which is at the northern edge of the main façade and fitted with a metal security screen door. Fenestration consists of double-hung wood sash and aluminum replacement windows; there is also a large picture multiple-light window adjacent to the main entrance. The house is in fair condition.

References:

Chino Champion
"Bob-O-Link." Aug. 15, 1941, 6.
"Bulk Sale." Apr. 2, 2005, 31.
"Byron C. Fulton, Chino Pioneer, Claimed by Death." Sep. 22, 1939, 1.
"Euclid Decorative Rock." Apr. 13, 1977, 21.
"Fictitious Business Name Statement." Mar. 16, 1973, 5.
"Fictitious Business Name Statement." May 18, 1973, 4.
"Fictitious Business Name Statement." May 7, 1976, 4.

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object
☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #)
Photo 1: Front façade Overview (View E)

***P6. Date Constructed/ Age and Sources:** ☑Historic
1905/1940 (San Bernardino County Assessor)
☐Prehistoric ☐Both

***P7. Owner:**
REAL ESTATE HOLDINGS & MANAGEMENT LLC

***P8. Recorded by:**
Doug Kazmier
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 5/22/2023

***P10. Survey Type:** *Intensive*

***P11. Report Citation:**.

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A
B2. Common Name: N/A
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:**
***B6. Construction History:** Residence originally built c1905.
Residence remodeled c1940.

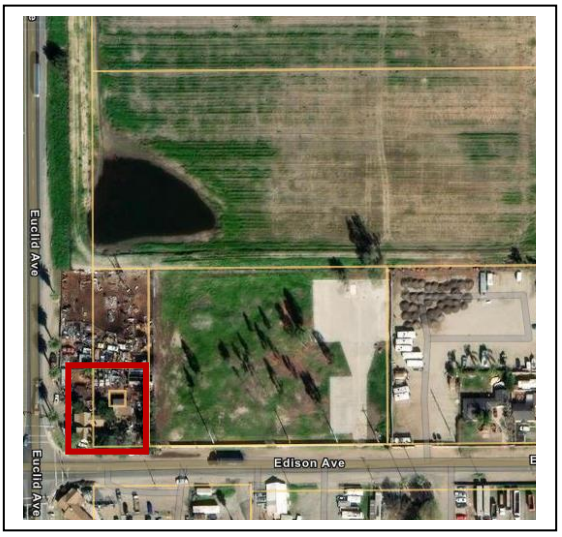
***B7. Moved? ☑No ☐Yes ☐Unknown Date:** N/A **Original Location:** N/A
***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** N/A
Area: N/A **Period of Significance:** N/A
Property Type: N/A **Applicable Criteria:** N/A
Additional Resource Attributes: N/A
(Discuss importance in terms of historical/architectural context by theme, period, and geographic scope. Address Integrity.)

(Continued on Continuation Sheet, page 3.)

***B12. References: (continued)**

Chino Champion
"Fictitious Business Name Statement." May 7, 1976, 4.
"For Sale." Oct. 10, 1930, 7.
"Foss Brothers Sell Market Family Has Owned For Decades." Jun. 26, 2004, 1.
"Healthy Dairy Industry." Jun. 3, 1983, 45.
"Herd Improvement Association Report for Last Month." May 17, 1935, 5. "Lyon." Sep. 23, 1977, 6.
"Madole." May 11, 1973, 5.
"Southfield-Madole." Feb. 10, 1971, 11.
May 14, 1948, 10.
Chino Valley News
"Truck Equipment & Repair." Feb. 17, 1988, 11.
Clucas, Donald Laine., Anderson, Marilyn. Upland. Arcadia Publishing: Charleston, South Carolina. 2009.
Emick, Paula. Images of America: Rancho Cucamonga. Arcadia Publishing: Charleston, South Carolina. 2011.
City of Ontario. "History" https://www.ontarioca.gov/FactsAndHistory. Accessed August 8. 2022. Undated.
Ontario City Library. Early Ontario. Arcadia Publishing: Charleston, South Carolina. 2014.
San Bernardino County Sun.
"Fears Felt As Fall's Result." Nov. 16, 1929, 18.
Feb. 2, 1906, 8.
May 8, 1921.
Swett, Ira. *The Ontario & San Antonio Heights Railroad Company: Pacific Electric in Ontario & Claremont.* Interurbans Publications, 1969.

***B14. Evaluators:** Kara Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation:** 5/22/2023



***P3a. Description: (continued):**



Photograph 2: 14095 Euclid Avenue, south elevation, camera facing north, May 22, 2023.

***B10 (continued from page 2).**

Ontario

The Gabrielino Native American group inhabited the area before the arrival of Spanish missionaries in the late eighteenth century. In 1839, after Mexico gained independence from Spain, the Mexican government granted the 12,000-acre Rancho de Cucamonga to Tiburcio Tapia. Americans began settling in California in large numbers during the Gold Rush in the 1840s, and California statehood in 1850 accelerated the process statewide. In 1881, George and William Chaffey purchased part of Rancho Cucamonga in order to develop Etiwanda, where they tested their ground-breaking irrigation and town planning ideas. That same year, the brothers purchased 6,000 acres (along with water rights) west of Etiwanda, which became the cities of Ontario and Upland. In 1883, the Chaffeys added the Kincaid Ranch at the mouth of San Antonio Canyon to their holdings. They established the Ontario Land Company and subdivided the land into 10-acre farm lots, all of which had street frontage (Emick 2011:17, 20; Clucas 2009:7).

The Chaffeys set aside a town site for Ontario as well as land for an agricultural college, making water available to each parcel in order to encourage farmers to settle there. George Chaffey laid out a boulevard named Euclid, which stretched from the Southern Pacific Depot to the mesa at the north end of their holdings. The Chaffey brothers sold off their acreage and left California for Australia in 1886. Charles Frankish had moved to Ontario from Riverside that year to participate in the Chaffeys' "Model Colony," and invested in undeveloped land along Euclid Avenue. He recruited a group of investors and formed the Ontario Land and Improvement Company, which bought the Chaffey brothers' land holdings in 1886. Frankish acted as Manager and later President, and actively participated in the sale of real estate as well as planning and developing Ontario. Frankish carried out many of the Chaffey brothers' ideas. He extended Euclid past the depot to the south end of the company's holdings, platting the street grid and planting trees. In 1887, he organized the Ontario and San Antonio Heights Railroad Company (O&SA) as a subsidiary of the land company. In the 1890s, the O&SA constructed a hydro-electric plant at the mouth of San Antonio Canyon and electrified the system, making it the first electrified trolley west of Chicago. Ontario officially incorporated as a city in 1891. In 1912, Frankish bought the land company's Ontario-area assets and formed the Frankish Company. Frankish installed electric streetlights in Ontario, established its first bank, and was involved in nearly every aspect of local commerce and planning until his abrupt departure from the area in 1927 (Ontario City Library 2014: 7, 8, 17, 18; Swett 1969:13, 19).

Aviation interests were introduced to Ontario in 1923 when Waldo Waterman and Archie Mitchell established Latimer Field in the city limits. As more people moved to Ontario, its urban growth forced aviators eastward until they established an airport at the current location of Ontario International Airport. During World War II, Ontario's airport brought many to the area for its pilot training facilities. It was about this time that the citrus industry that had contributed to Ontario's nascent years of growth started to experience a broad decline. Land values increased as more and more Americans began moving westward and settling in the area. In subsequent years and decades, farmers sold their land to incoming residential developers. The population of Ontario swelled, and by the late 1950s, the city's residential area had expanded south and east. Manufacturing, defense, and dairy industries began to take the place of citrus as the local economic staples drawing in new residents. By the late twentieth century, manufacturing had waned and was replaced by service industries and

warehousing. Today, the city has expanded to a population of more than 166,000 people living within a 50 square-mile area. The city's economic base is now heavily dependent on industrial and manufacturing, and with three freeways, three major railroads, and Ontario International Airport, the region is rich in transportation resources (City of Ontario; Galvin & Associates 2004:40-41).

Subject Property History

The property was part of Mexican land grant Rancho Santa Ana del Chino. The current small parcel near the intersection was part of Lot 34 of Section 18, a roughly 300' x 900' parcel. The first known owners of Lot 34 were Byron C. Fulton (1860-1939) and his wife,Mary Jane Bailey (San Bernardino County Sun 1906). They moved from North Dakota to Chino in 1892. They purchased a large ranch property and established their home on the southeast corner of Euclid and Edison Avenues (Chino Champion 1939). They bought and sold a number of portions of their original property and other properties in Chino. In 1899, the Fulton house burned down and they moved a new house from Ontario to the northeast corner of Euclid and Edison Avenues, current address 14095 Euclid Avenue. The Fulton family appears to have stayed in the house until at least 1930. In the early 1930s, John Ephas Clapp (1876-1944) purchased all of Lot 34. Clapp was a cattle dealer and had a dairy in Chino Hills. He apparently lived on Lot 34 in a house facing Edison that was constructed about 1924 (see DPR 523 form for 7218 and 7226 Edison Avenue) with his wife, Ida Belle Clapp, and their son, Frank Clapp (Chino Champion 1941). (Since house numbers were not in use area during this period, available documents cannot definitively confirm which house they resided in.) Around 1940, the lot was divided, separating 14095 Euclid Avenue and 7218 Edison Avenue. In the 1940s, dairy farmers Mr. and Mrs. S. C. Iest, lived in the turn-of-the-century house (Chino Champion 1935, 1948). Historic aerial photographs demonstrate that the remainder of the parcel was an orchard through the middle decades of the twentieth century, and although people involved in the dairy business lived on the property at times, the parcel was never utilized as a dairy. The orchard trees were gradually replaced with large tanks for what appears to have been some type of industrial use, but research has not revealed its details.

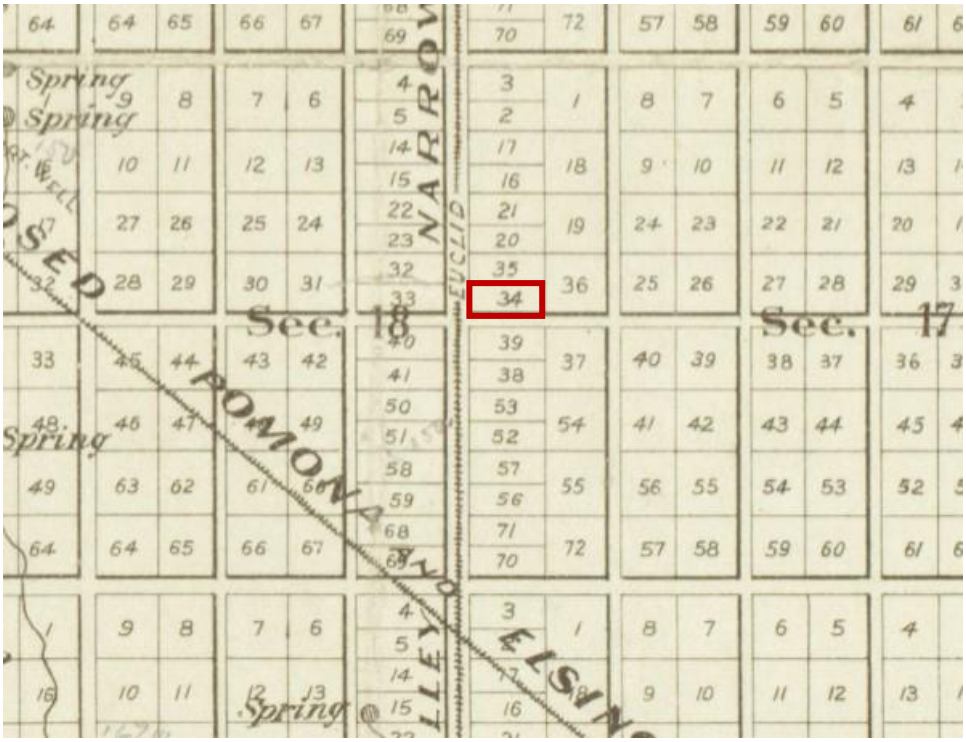


Figure 1: Britton & Rey Map of Subdivision of Rancho Santa Ana del Chino, 1889, Subject property outlined in red.



Figure 2: Subject property with a residence at the west corner (no longer extant), rows of orchard trees, and the residences at 7218 Edison Avenue to the east, USDA Aerial, 1936.



Figure 3: Subject property with multiple residences at the west corner, tanks in the middle, and two residences to the east, USDA Aerial, 1960.

In the 1970s, Richard Clark Madole owned the property. He married Judy Southfield in 1971 and they had a son, Richard Madole Jr. Madole worked as a hay dealer (Chino Champion 1971). Madole, Paul Abatti, and Richard Van Dyke co-owned Schafer Service in Chino (Chino Champion 1973). In 1973, Madole started R & R Commodities, Inc. on the property (Chino Champion 1973). Madole sold it to Gregory Lyon and Paula Lyon (1948-2015). In the late 1970s, the property was home of the Euclid Decorative Rock company, owned by Gregory Lyon (b.1947) and his father-in-law, Carl Bomgardner (Chino Champion 1976). In 1977, the Lyons had their son, Andrew Gregory, while living on the property (Chino Champion 1977). In the 1980s, the property was the home of Sterling Truck Equipment and Repair, Inc. (Chino Champion 1987). In 2004, the Lyons sold the property to AB & G Cattle Company. In 2010, Suresh and Shilpa Patel purchased the property. The Patels purchased the Foss mini mart in Chino in 2004, and renamed it Mars Market (Chino Champion 2004, 2005).

Evaluation of New Model Colony Area Associations
Lot 34 was never used as a dairy and therefore has no associations with this local historic context.

Evaluation
The National Register of Historic Places and California Register of Historical Resources require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible. A resource is eligible if (A/1) it is associated with events that have made a significant contribution to the broad patterns of our history; (B/2) it is associated with the lives of persons important in our past; (C/3) it embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic value; or (D/4) it has yielded or is likely to yield information important in prehistory or history. The California Register also requires that sufficient time has passed since a resource's period of significance (normally 45 years) to "obtain a scholarly perspective on the events or individuals associated with the resources" (CCR 4852 [d][2]).

Criterion A/1: The property at 14095 Euclid Avenue was constructed within the context of residential and agricultural development in Ontario and is generally associated with the development of the Chino Valley. Research has not revealed that the property is significant within that or any other historic context. Therefore, the property is recommended not eligible to the NRHP or CRHR under Criterion A/1.

Criterion B/2: The property is not associated with the life of persons important to our history. Some of the families who lived on the property were involved in the dairy industry of Ontario but were not significant contributors to the area's development, and research has revealed no important professional accomplishments or lasting impact on local history or on agriculture. The house provided shelter for ordinary working people: farmers and business owners. Therefore, the property lacks the association required for eligibility under Criterion B/2. The property is recommended not eligible to the NRHP or CRHR under Criterion B/2.

Criterion C/3: The residence is not significant for its architecture. Research did not reveal an architect or important builder associated with its construction. The building is an unremarkable example of a turn-of-the-century dwelling that has been severely altered over the decades with multiple additions, stucco cladding, window replacement, and other modifications. It lacks decorative features or references to a particular architectural style, nor is it an outstanding example of vernacular architecture. For these reasons, it lacks the significance and integrity required for historic listing and is recommended not eligible for the National Register or California Register under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. 14095 Euclid Avenue is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard.

P1. Other Identifier: 7275 Shaefer Ave; 7275 Shafer Street; 7271 Shaefer Ave; APNs 1053-071-04, 1053-081-01, 1053-081-02, and 1053-081-03

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad:** Ontario, CA **Date:** 1981 **T** 2S; **R** 7W; Non-Sectioned**;** SBBM
c. Address: 7275 Schaefer Ave City: Ontario Zip: 91762
d. UTM: Zone: N/A mE/ Elevation: 690' AMSL
e. Other Locational Data: The property is on the south side of Schaefer Avenue, just outside of Chino, in the southwest section of the city of Ontario.

***P3a. Description:** The subject property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s. It currently comprises four parcels (1053-071-04, 1053-081-01, and 1053-081-03, 1053-081-02) occupied by two historic-era milk parlors and two residences as well as outbuildings, several goat barns, hay storage structures, and an effluent pond to the south. The hay storage structures and goat barns (which were not constructed during the historic era) are near the western boundary of 1053-081-01 and overlap onto an adjacent parcel, which is currently co-owned along with the subject property but was historically part of the Grant Dairy. The milk parlors and residential buildings all face Schaefer Avenue and are clustered on APNs 1053-081-01 and 1053-081-03. The western Streamline Moderne milking parlor (c1958) is about 130 feet east of the parcel boundary behind a circular driveway. The front portion of the building (the milk house/milk room) has a flat roof and is clad in stucco. It features simple references to Streamline Modern architecture including a projecting center section, curved corners with glass block, and a shaped parapet with decorative clay tile roofing. Fenestration consists of glass block and steel casement windows. A shed-roofed addition supported by metal posts and clad in plywood obscures the original primary façade of the building. The back section of the building is an open-air facility (the milking parlor/milking barn) featuring a gabled metal roof with exposed rafter tails. It appears to be in fair-good condition, although additions and adjacent structures mostly obscure it from view.

The simple building east of the c1958 milking parlor (c1980) is apparently a storage building for farm vehicles with a residential section at its west end. It is rectangular in plan with a corrugated metal gable roof with exposed rafter tails. It is clad in stucco with vertical groove plywood at the rear. Fenestration consists of aluminum sliding-sash. The smaller building to its east (c1990) is a prefabricated residence with cross-gabled roof and plywood cladding. Both of these non-historic buildings are in fair condition.

The eastern milk parlor (c1965) is about 20 feet east of the western parcel boundary of 1053-081-03. It has a flat roof and is clad in stucco (cont. p. 3).

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object
☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #)
Photo 1: Milk parlor front façade Overview (View S)

***P6. Date Constructed/ Age and Sources:** ☑Historic
1965 (Parcelquest.com) ☐Prehistoric ☐Both

***P7. Owner:** Artevel of California LLC et al.

***P8. Recorded by:**
Doug Kazmier
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 10/31/2022

***P10. Survey Type:** *Intensive*

***P11. Report Citation:** *Cultural Resources Assessment Euclid Mixed Use Specific Plan Project, City of Ontario, San Bernardino County, California*

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A
B2. Common Name: N/A
B3. Original Use: Dairy and Residential
B4. Present Use: Residential
***B5. Architectural Style:** Milk Parlor (western) Streamline Moderne
Milk Parlor (eastern) Mid-century Modern
Residences are not historic in age and have not been analyzed for style.

***B6. Construction History:** Described in narrative, below.
***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A
***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** Architecture
Area: Ontario New Model Colony Area **Period of Significance:** 1958
Property Type: Dairy **Applicable Criteria:** C/3: Local Historic Context 2.
Additional Resource Attributes: N/A
(Discuss importance in terms of historical/architectural context by theme, period, and geographic scope. Address Integrity.)

(Continued, page 8.)

***B12. References: (continued)**

Agricultural Experiment Station. Dairy Cattle Housing. University of Wisconsin. 1949. 19.
Arnold, F.J. "Fifty Years of DHIA Work." Journal of Diary Science. 1956.
Belton, Herbert Logan, Long, James Dewey. Milk houses for California dairies. University of California, College of Agriculture, Agricultural Experiment Station, Berkeley. 1925. 6 – 9.
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California Dairy Press Room & Resources. "Nation's Dairy Leader." Department of Food & Agriculture, State of California. https://www.californiadairypressroom.com/Press_Kit/Nations-Dairy-Leader. 2023. Accessed August 9, 2023.
Chino Champion
"Chino Dairies Rank as Number 1 Industry." June 21, 1956.
"Chino Dairy Activities Are on Verge of Further Expansion." Jun. 16, 1950, 1.
"Chino Holsteins Show High Records." Jan. 8, 1975, 4.
"Cow An 'Iron Grandma.'" Sep. 7, 1977, 11. "FFA Membership Opens Doors for Future in Dairy." Jul. 7, 2012, 13.
"Fictitious Business Name Statement." May 29, 1981, 17.
"Frances Holmes." Jul. 15, 2000, 8.
"From Milk Stools to Herringbones." June 3, 1977, 8.
"Harm, Swannie Te Velde Celebrate 50th Anniversary." Aug. 1, 1986, 25.
"Obituaries: Ralph Te Velde." Jun. 25, 1998, 3.
"Registered Cow Records Given." Aug. 19, 1970, 3.
"Statement of Abandonment of Use of Fictitious Business Name." May 29, 1981, 20.
Chino Hills Champion. "Obituaries: Zwaantina Te Velde." Jan. 26, 2013, 17.
(Continued on Continuation Sheet, page 16).



***B14. Evaluators:** Kara Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation:** 4/10/2023

***P3a. Description: (continued):**l

and it features eaves with moderate overhang. It is accessed from the front via three partially glazed aluminum doors that are centered in the north elevation. It features mid-century modern industrial design elements including a flat roof with overhanging eves, large windows, and horizontal massing. It is in poor-fair condition with broken and boarded up windows, rusted wall vents, and other evidence of deterioration.



Photograph 2: Western milking parlor, north and west elevations, camera facing southeast, February 8, 2023.



Photograph 3: Western milking parlor, east and north elevations, camera facing southwest, February 8, 2023.


Photograph 4: Western milking parlor, rear section left frame, east elevation, camera facing southwest, February 8, 2023.



Photograph 5: Residence/storage buidling east of the western milking parlor, south elevation, camera facing northeast, February 8, 2023.



Photograph 6: Residence/storage building, east and north elevations, camera facing southwest, February 8, 2023.



Photograph 7: Residence/storage building, north and west elevations, camera facing southeast, October 31, 2022.



Photograph 8: Residence/storage building,, west and south elevations, camera facing northeast, February 8, 2023.



Photograph 9: Residence east of residential/storage building, east elevation, camera facing southwest, February 8, 2023.



Photograph 10: Eastern Milk Parlor, east and north elevations, camera facing southwest, February 8, 2023.



Photograph 11: Eastern Milk Parlor, north elevation, camera facing south, February 8, 2023.



Photograph 12: Goat shelters and corrals (non-historic), camera facing west, February 8, 2023.

***B10 (continued from page 2).**

Ontario

The Gabrielino Native American group inhabited the area before the arrival of Spanish missionaries in the late eighteenth century. In 1839, after Mexico gained independence from Spain, the Mexican government granted the 12,000-acre Rancho de Cucamonga to Tiburcio Tapia. Americans began settling in California in large numbers during the Gold Rush in the 1840s, and California statehood in 1850 accelerated the process statewide. In 1881, George and William Chaffey purchased part of Rancho Cucamonga in order to develop Etiwanda, where they tested their ground-breaking irrigation and town planning ideas. That same year, the brothers purchased 6,000 acres (along with water rights) west of Etiwanda, which became the cities of Ontario and Upland. In 1883, the Chaffeys added the Kincaid Ranch at the mouth of San Antonio Canyon to their holdings. They established the Ontario Land Company and subdivided the land into 10-acre farm lots, all of which had street frontage (Emick 2011:17, 20; Clucas 2009:7).

The Chaffeys set aside a town site for Ontario as well as land for an agricultural college, making water available to each parcel in order to encourage farmers to settle there. George Chaffey laid out a boulevard named Euclid, which stretched from the Southern Pacific Depot to the mesa at the north end of their holdings. The Chaffey brothers sold off their acreage and left California for Australia in 1886. Charles Frankish had moved to Ontario from Riverside that year to participate in the Chaffeys' "Model Colony," and invested in undeveloped land along Euclid Avenue. He recruited a group of investors and formed the Ontario Land and Improvement Company, which bought the Chaffey brothers' land holdings in 1886. Frankish acted as Manager and later President, and actively participated in the sale of real estate as well as planning and developing Ontario. Frankish carried out many of the Chaffey brothers' ideas. He extended Euclid past the depot to the south end of the company's holdings, platting the street grid and planting trees. In 1887, he organized the Ontario and San Antonio Heights Railroad Company (O&SA) as a subsidiary of the land company. In the 1890s, the O&SA constructed a hydro-electric plant at the mouth of San Antonio Canyon and electrified the system, making it the first electrified trolley west of Chicago. Ontario officially incorporated as a city in 1891. In 1912, Frankish bought the land company's Ontario-area assets and formed the Frankish Company. Frankish installed electric streetlights in Ontario, established its first bank, and was involved in nearly every aspect of local commerce and planning until his abrupt departure from the area in 1927 (Ontario City Library 2014: 7, 8, 17, 18; Swett 1969:13, 19).

Aviation interests were introduced to Ontario in 1923 when Waldo Waterman and Archie Mitchell established Latimer Field in the city limits. As more people moved to Ontario, its urban growth forced aviators eastward until they established an airport at the current location of Ontario International Airport. During World War II, Ontario's airport brought many to the area for its pilot training facilities. It was about this time that the citrus industry that had contributed to Ontario's nascent years of growth started to experience a broad decline. Land values increased as more and more Americans began moving westward and settling in the area. In subsequent years and decades, farmers sold their land to incoming residential developers. The population of Ontario swelled, and by the late 1950s, the city's residential area had expanded south and east. Manufacturing, defense, and dairy industries began to take the place of citrus as the local economic staples drawing in new residents. By the late twentieth century, manufacturing had waned and was replaced by service industries and warehousing. Today, the city has expanded to a population of more than 166,000 people living within a 50 square-mile area. The city's economic base is now heavily dependent on industrial and manufacturing, and with three freeways, three major railroads, and Ontario International Airport, the region is rich in transportation resources (City of Ontario; Galvin & Associates 2004:40-41).

Dairy Industry

The City of Ontario's Historic Context for the New Model Colony Area (Galvin & Associates 2004) has documented the local dairy industry, establishing periods of significance and a detailed framework for evaluation. The summary below draws from the context and other sources to provide sufficient historical framework to orient readers of these DPR 523 forms; the more comprehensive 2004 context may be consulted for additional detail.

Ontario and Chino are located in the Chino Valley basin of southwestern San Bernardino County. Dairy cows came to California with American settlers during the Gold Rush, and by 1876, a State Dairyman's Association had been organized. Dairies were first established in Chino Valley in the 1890s. The first dairy was most likely the Steel and Green Dairy, comprised of adobe buildings on the site of the Battle of Chino. The industry was based on free grazing during this era, and the availability of large tracts of fertile and inexpensive pastureland drew dairy farmers from Los Angeles County. However, most dairies in the region remained closer to Los Angeles population centers for several decades and citrus groves dominated the landscape through the end of the 1940s. Through 1930, the dairies in the region were small family businesses. Yet, by 1915, milk shipments already totaled over 6,000 pounds out of Chino. As Los Angeles County grew in population, so did the regional dairy industry. In the 1920s, many Dutch immigrants started dairy farms near Los Angeles. In the 1930s, to optimize milk production, dairies began switching from free grazing to dry-lot dairying and mechanized milking (Chino Champion 1977).

In the early years, the milking equipment was sanitized with steam tanks heated by oil burners. By 1920, dairy health and sanitation laws were established. Milk was originally filtered through cloth into the cans it was shipped in. The new laws required that a milk house had to be at least sixty feet from the barn, milkers must wear clean clothes before each milking, and milk house drains were constantly flushed with water. New ammonia colling systems were also created. After World War I, many cows in California had tuberculosis, thus pasteurization became a requirement. The Dairy Herd Improvement Association (DHIA), formerly the Cow Testing Association, was also created to improve the quality of the milk cattle (Chino Champion 1977). The association was started in the United States in 1906 by Danish immigrant Helmer Rabild and a small group of dairy farmers in Michigan. The Diary Division of the U.S. Department of Agriculture was the biggest supporter of the DHIA. By 1926, over one-hundred associations were established across the country (Arnold 1956).

During and after World War II, the Los Angeles Basin grew as a metropolitan area, pushing dairies to peripheral areas such as Chino Valley. In 1949, Chino dairies produced one-third of the total dairy production in San Bernardino County (Chino Champion 1950). In 1950, there were 79 dairies with an average of 145 cows to a herd in the Chino area (Chino Champion 1950). Suburbanization in Los Angeles County allowed dairymen, many of whom were Dutch, to purchase larger acreage and build bigger homes in Chino Valley. During this era, local dry lot operations (which purchased all feed) began to replace traditional dairy farms, which grew some or all cattle feed. By 1957, there were more than 135 dairies in Chino Valley. The late 1950s and early 1960s dairies established in Chino Valley were the most technologically sophisticated in the US, capable of milking 450 cows a day for each worker. Herringbone milking parlors, in which cows were raised on a platform so milkers did not have to kneel, became popular during this era to control labor costs. In 1960, an agricultural dairy preserve was established to protect the land from development, and by 1965, there were around 350 dairies in Chino Valley (Chino Champion 1977). In 1979, sixty percent of milk produced in California was from Chino Valley (Galvin & Associates 2004). Dairy products became California's number one agricultural commodity in 1993, and the state continued to lead the country in milk production throughout the twenty-first century (California Dairy Press Room & Resources 2023).

Streamline Moderne Milking Parlors

The City of Ontario's Historic Context for the New Model Colony Area (Galvin & Associates 2004) identified an unusual building type that characterizes historic-era dairies in the Ontario area, stating that the survey area has one of the largest concentrations of this building type in California. These milk parlors (also called milk houses or milk plants) are two-part buildings: a long, narrow shed with milking stalls for cows connected to a small cooling and processing building near a circular drive. The large utilitarian area where the cows are milked (historically referred to as the milking barn or milking parlor) has concrete masonry unit walls with large unglazed openings for ventilation and gabled roof. Floors are concrete for easy cleaning; stalls for cows are likewise designed for sanitation of concrete with metal stanchions. The processing/cooling/storage section of this building type (historically called the milk house or milk room) was not designed to be entered by cows or milkers. The milk houses are more visible from the public right-of-way than the barns, and thus more attention was paid to their aesthetic design. Many early examples, as documented in the Historic Context, exhibit simple Streamline Moderne architectural features including smooth symmetrical massing, stucco cladding, flat roofs with coping, curvilinear corners, and glass block windows. Larger and more elaborate examples have projecting center volumes, some with glass block at the curved corner.

The Historic Context theorized that these buildings would "most likely" have been constructed between 1920 and 1940, stating that more decorative Art Deco-style examples with geometric and angular edges as well as decorative chevrons or zigzags would have been constructed between 1920 and 1930, and that dairy owners transitioned to the Streamline Moderne style as described above between 1930 and 1940. Although revision of the 2004 Historic Context is outside the scope of the current study, some of the more serious flaws and inconsistencies within its discussion of this property type must be addressed in order to evaluate examples of this building type. The Context accurately describes the building type and correctly states that the Ontario/Chino area appears to boast the largest concentration of the property type in the state. However, the Context does not provide any photographic examples of the more decorative Art Deco-style milk parlors that it states would have been constructed before 1930, nor have recent field investigations revealed any dairy buildings with ornamental features that directly reference Art Deco architecture; the existence of dairy buildings with strongly Art Deco ornament appears to have been conjectural. A careful reading of the Historic Context and a review of its bibliography reveal that no sources on Art Deco or Streamline Moderne architecture were cited (in contrast to its extensive bibliography on Ranch Style architecture). Nor does the bibliography include sources focused on the architecture of dairies, the development of dairy building typology over the twentieth century, the technical requirements of twentieth century dairy buildings, or contemporaneous trade journals that discuss best practices for dairy building construction. Furthermore, pages 44 – 48 of the Context have no citations whatsoever. Thus, close examination reveals that its preparers developed the 1920 – 1940 period of significance based on the widely understood fact that the Art Deco/Streamline Moderne architectural movement was popular during this era and that Streamline Moderne grew out of Art Deco during the Great Depression. However reasonable this assumption may have been, it was not based on evidence. As demonstrated below, these buildings were not developed between 1920 and 1940.

The use of glass block is virtually ubiquitous in these milk plants and is one of the most important character-defining features of the building type. Glass block construction was pioneered in the US for a New York hotel built in 1928. Production of glass block began about 1932 and the material was featured at the 1933 – 1934 Chicago Century of Progress International Exhibition and the 1939 World's Fair in New York, helping to popularize it. The height of its use was from the late 1930s through the 1940s. It became an essential element of the Streamline Moderne style since it could be incorporated into curving wall surfaces (Fagan 2015). The development history of this material definitively demonstrates that Streamline Moderne milking parlors could not have been constructed in the Chino Valley prior to 1933 at the absolute earliest. In 1925, the University of California College of Agriculture published recommendations for milk house design and construction. Although concern for sanitary conditions had led to a recommendation for the use of concrete flooring for milking parlors and milk houses during this era, best practice continued to advise wood-frame wall construction with wood sheathing and double-hung wood sash windows with screens. In the 1920s, glass block and concrete masonry units were not yet being recommended as building materials by organizations promoting progressive dairying (Belton 1925).

Although glass block was in production by the mid-1930s and theoretically could have been utilized, its use for dairy buildings would have been unlikely, since building materials trends begin in urban areas and arrive later to farming operations, where utilitarian considerations are more important than style. Review of historic aerial photographs provides further evidence that the building type was not in local use during the 1920s and 1930s. Review of historic aerial photographs for a roughly two square mile area (including the current project area) has revealed that it eventually held at least 17 of these buildings. Only two milking parlors that fit the typology had been constructed by

1949 and by 1953 there were still only two in the study area (USDA Aerial Photographs 1949, 1953, 1975). Furthermore, review of local newspapers reveals few if any new dairies established during the 1930s, and expansion of existing operations appears to have been modest during these Great Depression years. Extensive comparative research has revealed no existing California cultural resource reports or academic papers that have analyzed the building type. Several historic photographs of Los Angeles County dairies were discovered, and these demonstrate that the property type was in use in areas like Bellflower and Artesia during the 1940s and 1950s; the oldest dated photograph of a Streamline Moderne milking parlor in Artesia is from 1940. The Streamline Moderne milking parlor appears to have traveled from Los Angeles County to Ontario in the 1940s as dairymen began to move their operations to western San Bernardino County, and the trend accelerated rapidly in the mid-1950s along with the continued migration of dairies to Chino Valey. A 1940 article in the Chino Champion describes the Abacherli Dairy at the intersection of Walnut and San Antonio avenues as a state-of-the-art local dairy plant. Although the article does not include photographs, a milk house of concrete construction with concrete floors is described and may have been an early example of the typology (Chino Champion 1940). By 1947, the Journal of Dairy Science was recommending glass block for use in milk processing plants because it provided illumination without allowing dirt to infiltrate like an open window. The same publication also praises its “modern look” (Nelson: 1947). Other dairy-oriented publications also recommended use of the glass block and masonry construction in the late 1940s (University of Wisconsin: 1949). And the extant Streamline Moderne milk parlor at the Grant Dairy (in the current study area) is known to have been built in 1947 or 1948.

The local popularity of glass block in milking parlors appears to have peaked in the 1950s, when many local examples of this building type were constructed. Glass blocks were heavily advertised in dairy trade journals throughout the 1950s, and construction of the building typology continued into the 1960s. A Streamline Moderne milking parlor appears in a 1956 article contrasting “modern dairy plants” with the large wooden barns of the early twentieth century (Chino Champion 1956). (Although its construction date is not specifically mentioned, it would be unlikely for a local newspaper to tout a building as “modern” if it were more than two or three years old.) Although documents that substantiate exact dates for construction of Streamline Moderne milk parlors in Ontario have not been discovered, available evidence indicates that most were constructed between 1940 and 1965. Since we have demonstrated that the actual construction of this building type did not take place within the Art Deco era (1920 – 1940) this study will use Streamline Moderne Milk Parlor in reference to this building type and will consider the period of significance 1940 – 1965.

Subject Property History

The subject property was part of Mexican land grant Rancho Santa Ana del Chino. In the early twentieth century, the subject property (Lots 1 and 18 of Section 18 in Figure 1) was part of a larger ranch that totaled about 40 acres. By 1917, George Washington Bird (1873-1944) owned the property with his wife Birchie (U.S. Directories San Bernardino County 1917). George Bird was born in Missouri and Birchie was born in Iowa. In 1920, they were living on the ranch with seven of their children; a decade later they had five children left at home and Birchie’s father was also living with them (US Census Records 1920, 1930). Bird was a contractor who built oil rigs; he apparently also operated the subject property as some type of a farm, perhaps a dairy or chicken ranch. There were some small buildings on the subject parcel during this era, but none of the current buildings had been constructed. The family home was not located on the subject property but was in a group of buildings and trees clustered along a driveway near the line of eucalyptus that marked the western border of Lot 8 (see Figures 1 and 2). The Birds had to mortgage the property during the Depression and were apparently unable to make the payments; they also had trouble meeting your property tax obligations, and an auction of all four lots was announced in 1933 (San Bernardino County Sun 1933). The family somehow managed to hang on to the property through the end of the decade, but it was finally auctioned at a trustee's sale in 1940. They moved to Upland, where George Bird died in 1944 (Pomona Progress Bulletin 1944).

CONTINUATION SHEET

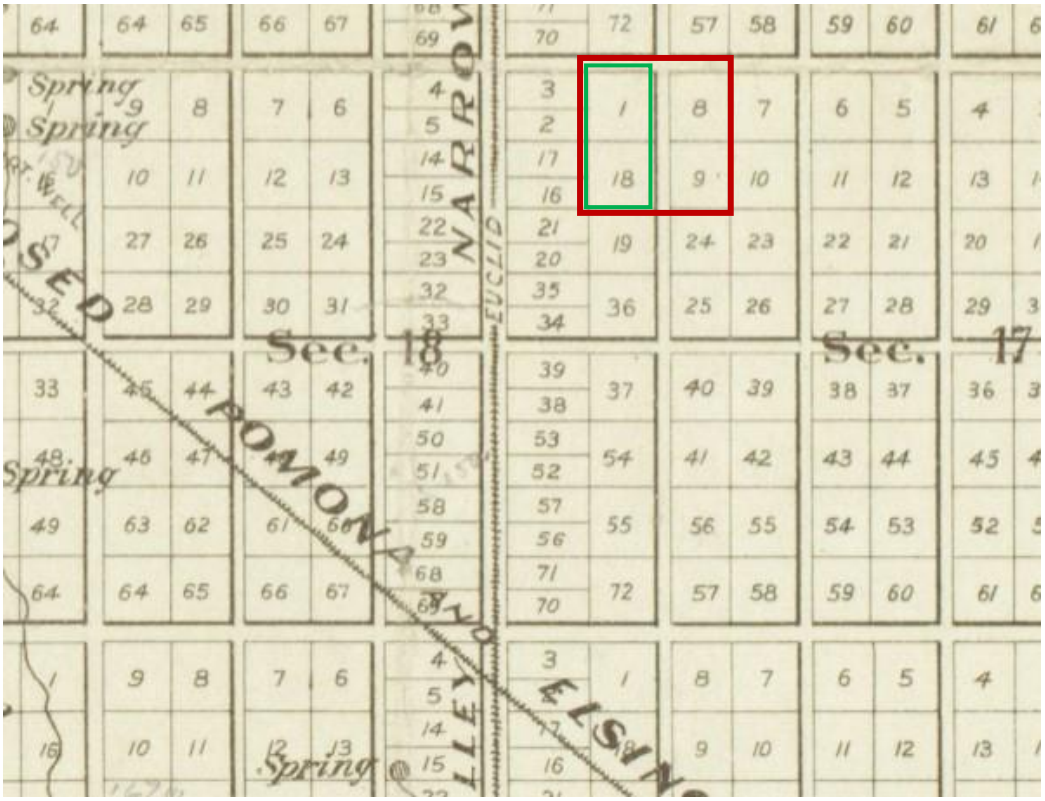


Figure 1: Britton & Rey Map of Subdivision of Rancho Santa Ana del Chino, 1889, Bird Ranch property outlined in red with portion surveyed for current study outlined in green.

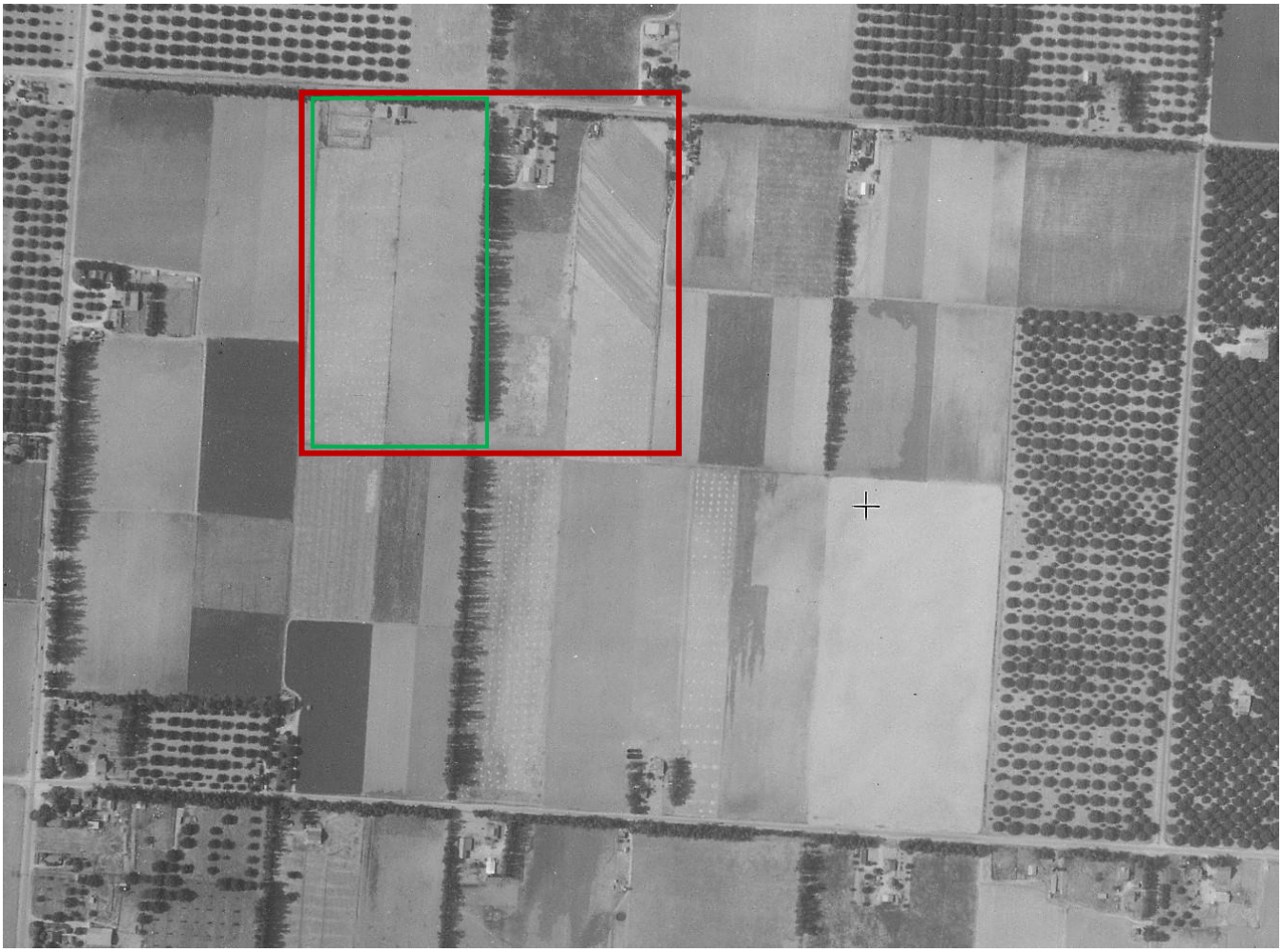


Figure 2: Bird Ranch outlined in red with area surveyed for current study outlined in green, original ranch buildings (no longer extant) near Schaeffer at center of survey area, Bird Ranch residential area east of survey area, USDA Aerial, 1936.

Alba Lee and Frances Holmes acquired the property about 1940. Alba Lee Holmes (1913-2002) and Frances Pedley (1916-2000) had been married in 1938 and Alba worked as a machinist before they purchased the ranch (Pomona Progress Bulletin 1938). They eventually had four children (Chino Champion 2000). By 1950, Alba Lee and Frances Holmes and children Stephen, Karen, and Jeffrey apparently lived on the ranch (U.S. Census Records 1950). Presumably, they were living in the Bird house on Lot 8 which was extant at that time, but the location of their residence cannot be definitively determined because addresses were not in wide use in the area during this period. After they moved to the subject property, Alba, who usually went by Lee, listed his occupation as a farmer. Aerial photographs indicate that the western Streamline Moderne milking parlor was constructed c1958; a long narrow building probably used as a storage was constructed southeast of the milk parlor about the same time, and corrals for cattle were also built.



Figure 3: Bird Ranch outlined in red with portion surveyed for current study outlined in green, original ranch buildings (no longer extant) near Schaeffer at center of survey area, Bird Ranch residential area east of survey area, USDA Aerial, 1946.



Figure 4: Subject property in the late 1940s; no new buildings have been constructed on the property since the mid-1930s, USDA Aerial, 1949.



Figure 5: Subject property in the early 1950s; no new buildings have been constructed on the property since the mid-1930s, USDA Aerial, 1953.



Figure 6: Subject property, blue arrow showing c1958 Milk Parlor constructed during Holmes ownership, USDA Aerial, 1959.

A second milk parlor was constructed c1965, apparently by the Holmes family. It is a virtually exact copy of the neighboring Floris Ykema Dairy's milk parlor (about a half mile directly to the south, constructed c1960) which apparently served as a template. The dairy operation on this property made little impact on the historic record and little is known about Lee Holmes' professional life. Frances Holmes worked in the estate and planning department of Pomona College and was a longtime member of the Christian Women's Club in Chino (Chino Champion 2000). The family appears to have lived on the property until at least 1964. The east half of the property appears to have been sold during the mid-1960s.

The TeVelde family purchased the property about 1973; they also acquired the Grant Dairy to the west. Born in the Netherlands, Harm and Swannie TeVelde were married in 1936 and came to the area in 1969; they may have rented the property before purchasing it. They named the properties at Euclid and Schaefer Artevel Farms (Chino Champion 1970, Chino Valley News 1983, Chino Champion 1986). Harm gained recognition by the Holstein-Friesian Association of America for his milk cows (Chino Champion 1977). The TeVeldes had eight children. The TeVelde family purchased the Grassland Dairy Farm at 7275 Shaeffer Avenue (the subject property), which comprised the second Artevel

Farms location (Chino Champion 1981). Harm and Swannie's son, John TeVelde lived on Schaefer Ave with his family starting in 1969 (Chino Champion 1969). The two residential buildings on the property were constructed after 1980. Research has not revealed when the original 40-acre Bird Ranch was subdivided, but the eastern 20 acres were under separate ownership by 1987. In 1990, Harm Te Velde died after living in Chino for 21 years (Chino Valley News 1990). In 2008, Artevel Farms became Artevel of California, LLC. In 2013, Swannie TeVelde died, leaving 116 family members. In the 2010s, the property was purchased by Daniel Drake and used as the Drake Family Farms Artisan Farmstead, for the production of goat cheese. Drake Family Farms sold their goat cheese at local farmers markets (Los Angeles Times 2012).



Figure 7: Subject property, blue arrow showing c1958 Milk Parlor orange arrow showing c1965 Milk Parlor constructed during Holmes ownership, USDA Aerial, 1976.

Evaluation of New Model Colony Area Associations

The subject property has no extant buildings constructed prior to the 1950s, it therefore has no potential association with the following historic contexts identified in the City of Ontario Historic Context for the New Model Colony Area: 1. Pre-1930 Rural Residential or Free-Grazing Dairy Properties and 3.1930-1949 - Dry Lot Dairying with Mechanization. Since the two milking parlors on the property were constructed during the 1950s and 1960s, it is a potential example of 4. Post-1950 - Scientific, Large Capacity Dairies, although it does not meet the minimum characteristics as analyzed in greater detail below.

As analyzed below, it is an example of 2. Art Deco or Streamline Moderne Milk Parlors. New facts uncovered during the current study indicate that Context 2 should be revised to Streamline Moderne Milk Parlors (1940 – 1965).

2. Art Deco or Streamline Moderne Milk Parlors minimum characteristics according to Historic Context:

> modestly sized, rectangular, two part, one story milking parlor designed in the Art Deco or Streamline Moderne architectural styles. The property must exhibit those character-defining features that are generally recognized with these styles, as described above. The property also must include a circular driveway in front of the building. It may include landscaping features, but these are not essential.

The subject property exhibits the minimum characteristics of the building type according to the Historic Context. (As discussed at length above, although the Historic Context incorrectly dated this building typology, it accurately described it and identified it as significant.) Since the milking parlor retains its circular drive, glass block windows on the primary elevation, and other architectural features of the style as well as the utilitarian back section for milking, it qualifies as a high integrity example of this historic building typology and is therefore eligible for local listing according to the Historic Context.

4. Post-1950 - Scientific, Large Capacity Dairies minimum characteristics according to Historic Context:

> at least one large residence that dates to this period in the Ranch architectural style that exhibits little alteration, a large "herringbone style" milking parlor designed in the Ranch style, a circular driveway, numerous geometrically spaced rows of pole structures and other related dairy facilities, and a vast expanse of open space to the rear of the property. The property may have multiple large residences and a few smaller workers' residences.

The subject property has two milking parlors that date from this era, and its c1965 milking parlor appears to exhibit the later herringbone style as required for significance under the Historic Context; it also has circular driveways. However, the current property at 20 acres is only half the size of the original ranch and not close to the average 40-acre size of properties within this context. Furthermore, the subject property lacks a large Ranch-style residence, and has no residential buildings constructed within the 1950 – 1969 period of significance for this context. Although it has numerous geometrically spaced rows of pole structures and other agricultural buildings, all were constructed well outside the historic era and appear to have been purpose-built for the current goat dairy, and therefore do not fit within this context. There has also been an addition of a prefabricated dwelling and a combination residence/vehicle storage building in a prominent location near the street and between the milking parlors outside the historic era. Buildings constructed after 1969 and the addition of manufactured homes are specifically mentioned in the Historic Context as factors that would render a dairy property developed during this era low integrity. Therefore, according to the standards set forth by the Historic Context, the property no longer conveys its historic association as a post-1950 dairy property.

Since the property qualifies as a high integrity example of a Streamline Moderne Milk parlor is eligible for local listing under Context 2 but ineligible under the other contexts as set forth in the Historic Context.

Evaluation

The National Register of Historic Places and California Register of Historical Resources require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible. A resource is eligible if (A/1) it is associated with events that have made a significant contribution to the broad patterns of our history; (B/2) it is associated with the lives of persons important in our past; (C/3) it embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic value; or (D/4) it has yielded or is likely to yield information important in prehistory or history. The California Register also requires that sufficient time has passed since a resource's period of significance (normally 45 years) to "obtain a scholarly perspective on the events or individuals associated with the resources" (CCR 4852 [d][2]).

Criterion A/1: The property at 7275 Schaefer Avenue was constructed within the general context of agricultural and residential development in Ontario, however, research has revealed no significant association with important events related to the founding of that municipality, with development of the region, postwar residential expansion, the development of the dairy business, or with any other important historic context. It was one of many dairies established in the area during the twentieth century. It is therefore recommended not eligible for the National Register or the California Register under Criterion A/1.

Criterion B/2: Substantial research has not linked the subject property with individuals who have been notable in local, state, or national history. Its early owners were ordinary people; no houses were located on the subject property within the historic era, so it had no residents. Therefore, it lacks association with the lives of important persons in our history. For these reasons, it is recommended not eligible for the National Register or California Register under Criterion B/2.

Criterion C/3: The western milking parlor is an example of an important local property type. The building is an excellent example of a Streamline Moderne milk parlor, which has been previously identified in a historic context statement as an important local property type. It features design elements such as the rounded corners of the facades, a shaped parapet, glass block windows that curve around a corner, and a flat clay tile roof. It was constructed c1958, within the revised period of significance recommended for Streamline Moderne milk parlors. Although the eastern milking parlor was also constructed within the historic era, it is a lesser example of a Midcentury modern milk parlor and has also suffered alterations such as having windows boarded up; it therefore lacks the architectural significance and integrity required for historic listing. For these reasons, the western milk parlor alone is recommended eligible for the National Register or California Register under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. The subject property is an example of a well-understood type of construction and does not appear to be a principal source of important information in this regard.

Integrity. Eligible resources must retain integrity sufficient to convey that eligibility and to qualify as significant resources under CEQA. Integrity is measured by the degree to which a resource retains its historic location, design, setting, materials, workmanship, feeling, and/or association. The property has not been moved and thus retains integrity of location.

Although additions to its façade have obscured it from view, the original historic fabric of the milk parlor appears intact beneath these additions. Therefore, the property retains integrity of design, materials, and workmanship.

Although the neighborhood around the subject property has become more heavily developed over the decades, the immediate vicinity of the property including adjacent parcels remain mostly open and undeveloped land, and there are several other historic-era dairies in the immediate vicinity. Therefore, the property retains integrity of setting.

Intrusion of non-historic-era buildings near the milking parlor has resulted in some erosion of integrity of feeling. However, the property retains character-defining features that strongly evoke the feeling of a c1958 milking parlor: smooth stucco finish, projecting center volume, rounded corners, shaped parapet, and decorative clay tile roof. These essential and defining features would allow the building to strongly evoke the feeling of a Streamline Moderne milk parlor if additions were removed. The physical features that characterized the original building are sufficiently intact to convey its historic character as a 1940 – 1965 milking parlor. It therefore retains integrity of association.

The western milking parlor retains sufficient integrity to convey its identity as a c1958 dairy building.

The subject property and its constituent c1958 milking parlor are therefore recommended eligible for listing on the National Register or the California Register, and as such qualifies as a historical resource under the California Environmental Quality Act (CEQA). Thus, BCR Consulting recommends the National Register of Historic Places Status Code "3S ".

***B12. References (Cont.):**

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Alba Lee Holmes. San Bernardino County. 1950.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z
Other Listings
Review Code Reviewer Date

 *__Resource Name or #:__ 7218 & 7226 Edison Avenue

2P1. Other Identifier: APN 1053281020000

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino
and (P2b and P2c or P2d. Attach a Location Map as necessary.)
***b. USGS 7.5' Quad:** Ontario, CA **Date:** 1967 **T** 2S; **R** 7W; Section 18**;** SBBM
c. Address: 7218 Edison Ave and 7226 Edison Avenue City: Ontario Zip: 91762
d. UTM: Zone: N/A mE/ Elevation:
e. Other Locational Data: The property is on the north side of Edison Avenue, just outside of Chino, in the southwest section of the city of Ontario.

***P3a. Description:** The property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s. It is now located on the edge of Ontario, with multi-family residential development across the street to the west and dairies to the east and north. The subject property is a 2.06-acre lot occupied by a c1924 residence to the west at 7218 Edison Avenue and a c1957 residence to the east at 7226 Edison Avenue. The residences are in the south portion of the parcel near the road and enclosed by chain link fences. Landscaping consists of several mature trees and palms near the houses. The c1957 Ranch-style house is irregular in plan with a medium-pitch multi-gabled roof with metal vents on the gable ends. It is clad in stucco. There is a partial width porch with a gable roof on the main (south) elevation that is supported by two square wood post. It shelters the main entrance, which faces east rather than toward the street and is fitted with a wood paneled door. The porch is accessed by two wide concrete steps. Fenestration consists of replacement vinyl sliding windows. There is a garage to the east of the house, which is connected to the house by a breezeway. The garage is also clad in stucco with a gable roof and features a metal roll-up garage door.

The c1924 residence to the east of the larger c1957 residence is at the southeast corner of the parcel and exhibits the basic characteristics of Craftsman architecture. It is roughly L-shaped in plan with a jerkinhead gable roof and exposed rafter tails. It is clad in horizontal wood siding. There is a projecting partial-width porch on the main (south) elevation that is supported by two square wood posts and shelters the main entrance, which is centered and fitted with a paneled wood door and is accessed by a set of two wide concrete steps. Fenestration consists of vinyl replacement windows. There is a garage to the east of the house, which has the same roof form and pitch as the house, horizontal wood siding, and a metal roll-up garage door. The garage is connected to the house by a hyphen with clerestory windows on its main façade that appears to be a later addition.

References:

Chino Champion
"Births: Waggoner." May 12, 1971, 5.
"Bob-O-Link: With the Arrival in Chino." Aug. 15, 1941, 6.
"Byron C. Fulton, Chino Pioneer, Claimed by Death." Sep. 22, 1939, 1.

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object
☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #)
Photo 1: Front façade Overview (View N)

***P6. Date Constructed/ Age and Sources:** ☑Historic
1924, 1957 (San Bernardino County Assessor)
☐Prehistoric ☐Both

***P7. Owner:**
Richard and Lisa Gentry Trust

***P8. Recorded by:**
Doug Kazmier
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 5/22/2023

***P10. Survey Type:** *Intensive*

***P11. Report Citation:**.

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A
B2. Common Name: N/A
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:**
***B6. Construction History:** The main residence built c1924.
Second residence built c1957.

***B7. Moved? ☑No ☐Yes ☐Unknown Date:** N/A **Original Location:** N/A
***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** N/A
Area: N/A **Period of Significance:** N/A
Property Type: N/A **Applicable Criteria:** N/A
Additional Resource Attributes: N/A
(Discuss importance in terms of historical/architectural context by theme, period, and geographic scope. Address Integrity.)

(Continued on Continuation Sheet, page 4.)

***B12. References: (continued)**

"Chino" Where the Buffalo Still Roam." Jun. 30, 1989, 29.
"Choice A Beef For Sale." Jul. 25, 1986, 12. "Pomona Man Injured In Auto Crash Here." Nov. 8, 1956, 6.
"Rex Waggoner With Peace Corps In Guatemala" Apr. 4, 1963, 3.
"FFA Membership Opens Doors for Future in Dairy." Jul. 7, 2012, 13.
Clucas, Donald Laine., Anderson, Marilyn. Upland. Arcadia Publishing: Charleston, South Carolina. 2009.
Emick, Paula. Images of America: Rancho Cucamonga. Arcadia Publishing: Charleston, South Carolina. 2011.
City of Ontario. "History" https://www.ontarioca.gov/FactsAndHistory. Accessed August 8. 2022. Undated.
Ontario City Library. Early Ontario. Arcadia Publishing: Charleston, South Carolina. 2014.
Progress Bulletin.
"Rita Waggoner Makes Summer Wedding Plans." Jan. 3, 1960, 19.
"Betrothal Revealed." Dec. 25, 1972, 57.
San Bernardino County Sun.
"October 22, 1925 Continued." Dec. 12, 1925, 3.
Feb. 2, 1906, 8.
Swett, Ira. *The Ontario & San Antonio Heights Railroad Company: Pacific Electric in Ontario & Claremont.* Interurbans Publications, 1969.
U.S. Department of Commerce. "Waggoner." 1950 Federal Census. Chino, San Bernardino County.

***B14. Evaluators:** Kara Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation:** 5/22/2023



***P3a. Description: (continued):**



Photograph 2: 7218 Edison Avenue, south elevation, camera facing northeast, May 22, 2023.



Photograph 3: 7226 Edison Avenue, south and east elevations, camera facing northwest, May 22, 2023.

***B10 (continued from page 2).**

Ontario

The Gabrielino Native American group inhabited the area before the arrival of Spanish missionaries in the late eighteenth century. In 1839, after Mexico gained independence from Spain, the Mexican government granted the 12,000-acre Rancho de Cucamonga to Tiburcio Tapia. Americans began settling in California in large numbers during the Gold Rush in the 1840s, and California statehood in 1850 accelerated the process statewide. In 1881, George and William Chaffey purchased part of Rancho Cucamonga in order to develop Etiwanda, where they tested their ground-breaking irrigation and town planning ideas. That same year, the brothers purchased 6,000 acres (along with water rights) west of Etiwanda, which became the cities of Ontario and Upland. In 1883, the Chaffeys added the Kincaid Ranch at the mouth of San Antonio Canyon to their holdings. They established the Ontario Land Company and subdivided the land into 10-acre farm lots, all of which had street frontage (Emick 2011:17, 20; Clucas 2009:7).

The Chaffeys set aside a town site for Ontario as well as land for an agricultural college, making water available to each parcel in order to encourage farmers to settle there. George Chaffey laid out a boulevard named Euclid, which stretched from the Southern Pacific Depot to the mesa at the north end of their holdings. The Chaffey brothers sold off their acreage and left California for Australia in 1886. Charles Frankish had moved to Ontario from Riverside that year to participate in the Chaffeys' "Model Colony," and invested in undeveloped land along Euclid Avenue. He recruited a group of investors and formed the Ontario Land and Improvement Company, which bought the Chaffey brothers' land holdings in 1886. Frankish acted as Manager and later President, and actively participated in the sale of real estate as well as planning and developing Ontario. Frankish carried out many of the Chaffey brothers' ideas. He extended Euclid past the depot to the south end of the company's holdings, platting the street grid and planting trees. In 1887, he organized the Ontario and San Antonio Heights Railroad Company (O&SA) as a subsidiary of the land company. In the 1890s, the O&SA constructed a hydro-electric plant at the mouth of San Antonio Canyon and electrified the system, making it the first electrified trolley west of Chicago. Ontario officially incorporated as a city in 1891. In 1912, Frankish bought the land company's Ontario-area assets and formed the Frankish Company. Frankish installed electric streetlights in Ontario, established its first bank, and was involved in nearly every aspect of local commerce and planning until his abrupt departure from the area in 1927 (Ontario City Library 2014: 7, 8, 17, 18; Swett 1969:13, 19).

Aviation interests were introduced to Ontario in 1923 when Waldo Waterman and Archie Mitchell established Latimer Field in the city limits. As more people moved to Ontario, its urban growth forced aviators eastward until they established an airport at the current location of Ontario International Airport. During World War II, Ontario's airport brought many to the area for its pilot training facilities. It was about this time that the citrus industry that had contributed to Ontario's nascent years of growth started to experience a broad decline. Land values increased as more and more Americans began moving westward and settling in the area. In subsequent years and decades, farmers sold their land to incoming residential developers. The population of Ontario swelled, and by the late 1950s, the city's residential area had expanded south and east. Manufacturing, defense, and dairy industries began to take the place of citrus as the local economic staples drawing in new residents. By the late twentieth century, manufacturing had waned and was replaced by service industries and warehousing. Today, the city has expanded to a population of more than 166,000 people living within a 50 square-mile area. The city's economic base is now heavily dependent on industrial and manufacturing, and with three freeways, three major railroads, and Ontario International Airport, the region is rich in transportation resources (City of Ontario; Galvin & Associates 2004:40-41).

Subject Property History

The property was part of Mexican land grant Rancho Santa Ana del Chino. The current small parcel near the intersection was part of Lot 34 of Section 18, a roughly 300' x 900' parcel. The first known owners of Lot 34 were Byron C. Fulton (1860-1939) and his wife, Mary Jane Bailey (San Bernardino County Sun 1906). They moved from North Dakota to Chino in 1892. They purchased a large ranch property and established their home on the southeast corner of Euclid and Edison Avenues (Chino Champion 1939). They bought and sold a number of portions of their original property and other properties in Chino. In 1899, the Fulton house burned down and they moved a new house from Ontario to the northeast corner of Euclid and Edison Avenues, current address 14095 Euclid Avenue. The Fulton family appears to have stayed in the house until at least 1930. In the early 1930s, John Ephas Clapp (1876-1944) purchased all of Lot 34. Clapp was a cattle dealer and had a dairy in Chino Hills. He apparently lived on Lot 34 in the house facing Edison that was constructed about 1924 (7218 Edison Avenue) with his wife, Ida Belle Clapp, and their son, Frank Clapp (Chino Champion 1941). (Since house numbers were not in use area during this period, available documents cannot definitively confirm which house they resided in.) The Clapps may also have operated a dairy across the street from the subject parcel. Around 1940, the lot was divided, separating 14095 Euclid Avenue and 7218 Edison Avenue. Historic aerial photographs demonstrate that the remainder of the parcel was an orchard through the middle decades of the twentieth century, and although people involved in the dairy business lived on the property at times, the parcel was never utilized as a dairy. The orchard trees were gradually replaced with large tanks for what appears to have been some type of industrial use, but research has not revealed its details.

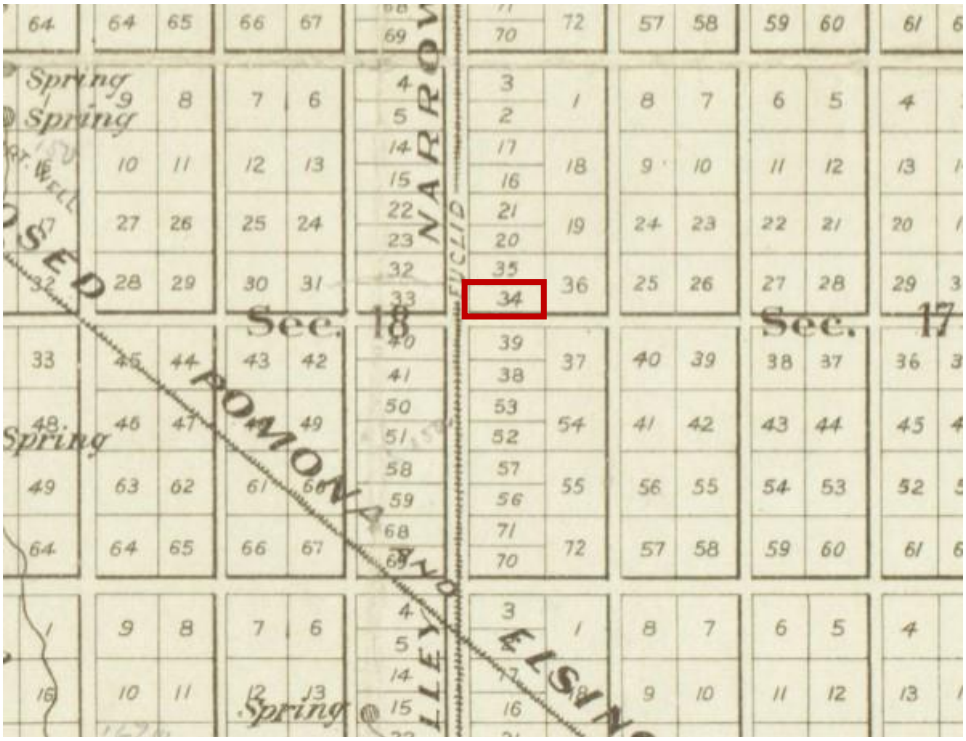


Figure 1: Britton & Rey Map of Subdivision of Rancho Santa Ana del Chino, 1889, Subject property outlined in red.

In 1936, Claudie E. Waggoner (1913-2000) married Faye Maxwell (1915-1998) and they moved to Ontario, living at first on Grove. Around 1950, they appear to have moved onto 7218 Edison Avenue with their son, Rex and daughters Donna and Rita. They used the property as a walnut farm (Chino Champion 1963). Previously, Claudie Waggoner worked for Lucas Dairy Company. The Waggoners son, Rex Waggoner, studied soil science and agronomy at Cal Poly San Luis Obispo. After graduating, he worked as a soil scientist with the U.S. soil conservation service near Placerville. He also volunteered in the Peace Corps in Guatemala for two years, where he worked in livestock management and farming, and taught nutrition (Chino Champion 1963).

In 1957, a second house was built on the property, apparently for the Waggoner ‘s daughter Donna. In 1958, Peter S. Vander Meulen (1933-2011), Donna Waggoner Vandermuelen, and their three children lived at 7226 Edison Avenue. Starting in 1955, Vander Meulen worked as a heavy equipment operator with Blue Diamond Materials for thirty-five years. In the late 1960s, Rex Waggoner moved into the house at 7226 Edison Avenue, directly adjacent to his parents’ house at 7218 Edison Avenue. In 1971, Rex Waggoner and his wife had a son, Steven Lee (Chino Champion 1971). Faye Waggoner died in Chino in 1998 and Claudie Waggoner died four years later (U.S. Social Security Death Index 2000). After their deaths, their oldest children, Rex Waggoner and Donna Vandermeulen (1938-2021), inherited the property.

In 2003, Roger and Jennie Camping purchased the property. Roger Camping (b.1952) and his two brothers owned Eagle Livestock in Chino (Chino Champion 1989; Progress Bulletin 1972). Roger Camping raised cows to sell for beef (Chino Champion 1986). In 2020, the property was purchased by Richard and Lisa Gentry.



Figure 2: Subject property with a residence at the west corner (no longer extant), rows of orchard trees and the house to the east at 7218 Edison Avenue, USDA Aerial, 1936.



Figure 3: Subject property with multiple residences at the west corner, water tanks, and the two houses to the east at 7218 and 7266 Edison Avenue, USDA Aerial, 1960.

Evaluation of New Model Colony Area Associations
Lot 34 was never used as a dairy and therefore has no associations with this local historic context.

Evaluation
The National Register of Historic Places and California Register of Historical Resources require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible. A resource is eligible if (A/1) it is associated with events that have made a significant contribution to the broad patterns of our history; (B/2) it is associated with the lives of persons important in our past; (C/3) it embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic value; or (D/4) it has yielded or is likely to yield information important in prehistory or history. The California Register also requires that sufficient time has passed since a resource's period of significance (normally 45 years) to "obtain a scholarly perspective on the events or individuals associated with the resources" (CCR 4852 [d][2]).

Criterion A/1: The property at 7218 and 7226 Edison Avenue was constructed within the context of residential and agricultural development in Ontario and is generally associated with the development of the Chino Valley. Research has not revealed that the property is significant within that or any other historic context. Therefore, the property is recommended not eligible to the NRHP or CRHR under Criterion A/1.

Criterion B/2: The property is not associated with the life of persons important to our history. The families who lived on the property were not significant contributors to the area's development, and research has revealed no important professional accomplishments or lasting impact on local history or on agriculture. The houses provided shelter for ordinary working people: farmers and business owners. Therefore, the property lacks the strength of association required for eligibility under Criterion B/2. The property is recommended not eligible to the NRHP or CRHR under Criterion B/2.

Criterion C/3: The two residences are not significant for their architecture. Research did not reveal any architects or important builders associated with their construction. The buildings are unremarkable examples of modest-sized 1920s and 1950s houses in Ontario. Although the older house has some basic elements of Craftsman architecture and the newer house is Ranch-style, neither is an outstanding example of an architectural movement. Furthermore, both have been altered outside the historic period with window replacement and other unsympathetic changes. For these reasons, they lack the significance and integrity required for historic listing and are recommended not eligible for the National Register or California Register under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. 7218 and 7266 Edison Ave are examples of well understood types of construction and do not appear to be a principal source of important information in this regard.

State of California — The Resources Agency
DEPARTMENT OF PARKS AND RECREATION

PRIMARY RECORD

Primary #
HRI #
Trinomial
NRHP Status Code 6Z

Other Listings
Review Code | Reviewer | Date

***Resource Name or #:** 7244 & 7260 Edison Avenue

P1. Other Identifier: APNs 1053-281-01, 1053-211-05

***P2. Location:** ☐ **Not for Publication** ☑ **Unrestricted** ***a. County:** San Bernardino

and (P2b and P2c or P2d. Attach a Location Map as necessary.)

***b. USGS 7.5' Quad:** Ontario, CA **Date:** 1967 **T** 2S; **R** 7W; Section 18**;** SBBM

c. Address: 7244 & 7260 Edison Ave City: Ontario Zip: 91762

d. UTM: Zone: N/A mE/ Elevation:

e. Other Locational Data: The property is on the north side of Edison Avenue, just outside of Chino, in the southwest section of the city of Ontario.

***P3a. Description:** The property is located in a remnant of the once expansive Chino Valley dairy country, most of which was gradually developed for residential tracts beginning in the 1970s beginning in the 1970s. It is now located on the edge of Ontario, with multi-family residential development across the street to the west and dairies to the east and north. The subject property is an 18-acre historic-era dairy with its main buildings on the 9-acre parcel (1053-281-01) adjacent to Edison Avenue and open space with some small buildings to the north on another 9-acre parcel (1053-211-05). 1053-281-01 is occupied by a historic-period (c1950) residence to the west, a historic-period (1957) residence to the east, and a historic-period (c1958) milking parlor at the center. The residence at 7244 Edison Avenue on the west side of the parcel near the road has untended landscaping with several mature trees near the house. The Ranch-style house is irregular in plan with a medium-pitch cross-gabled roof. It is clad in horizontal wood siding with vertical roof plywood on its south elevation. The main entrance on the east elevation is left of center and sheltered only by the roof eaves. It is fitted with a metal security screen door and accessed by three concrete steps. There is a large brick chimney on the east elevation. Fenestration consists of replacement sliding sash. The building is in fair condition, with peeling paint and the south elevation is boarded up. There is a detached garage to the north of the residence. It is rectangular in plan with a gable roof with louvered vents on the gable ends. It is clad in horizontal wood siding and is fitted with a roll-up metal garage door.

The second residence at 7260 Edison Avenue is on the southeast portion of the parcel near the road. It has untended landscaping and is enclosed by a metal chain link fence. The house is rectangular in plan with a gable roof with vents on the gable ends and exposed rafter tails. It is clad in stucco. The main entrance on the main (south) elevation is centered and fitted with a metal security screen door. It is sheltered only by the roof eaves, which project slightly at the entrance. There is a second entrance on the west elevation with is sheltered by a small projecting shed roof. Primary fenestration consists of metal sliding sash with a large picture window on the main side. There is a garage attached to the west elevation; it is fitted with a metal accordion garage door. It appears to be occupied and is in good condition.

The milking parlor at the center of the parcel is accessed by a semi-circular driveway. It is rectangular in plan. The front portion of the building (the milk parlor) has a flat roof and is clad in stucco. It features simple references to Streamline Modern architecture including a projecting center section, curved corners, and a shaped parapet with decorative clay tile roofing. The main entrance is centered on the main (south) elevation and is boarded up. Fenestration consists of glass block. The back portion of the building is an open-air facility (the milking parlor/milking barn) with a gabled metal roof with exposed rafter tails (cont. p. 3).

P5a. Photo or Drawing **(**Photo required for buildings, structures, and objects.)



***P4. Resources Present:**
☑ Building ☐Structure ☐Object
☐Site ☐District ☐Element of District ☐Other

P5b. Description of Photo: (View, date, accession #)
Photo 1: Front façade Overview (View NW)

***P6. Date Constructed/ Age and Sources:** ☑Historic
1950, 1957, 1960 (Parcelquest.com) ☐Prehistoric
☐Both

***P7. Owner:**

***P8. Recorded by:**
Doug Kazmier
BCR Consulting LLC
Claremont, California 91711

***P9. Date Recorded:** 5/22/2023

***P10. Survey Type:** *Intensive*

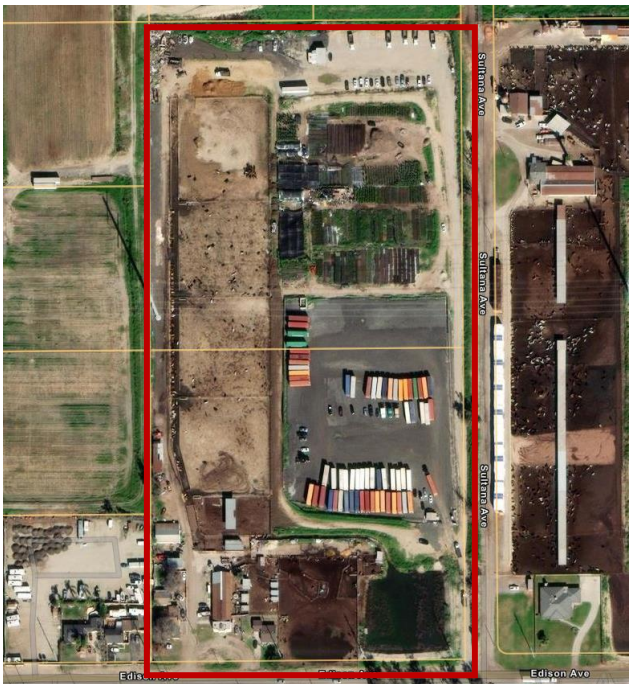
***P11. Report Citation:**.

***Attachments:** ☐NONE ☐ Location Map ☐ Sketch Map ☑ Continuation Sheet ☑Building, Structure, and Object Record ☐Archaeological Record ☐District Record ☐Linear Feature Record ☐Milling Station Record ☐Rock Art Record ☐Artifact Record ☐Photograph Record ☐Other (List):

B1. Historic Name: N/A
B2. Common Name: N/A
B3. Original Use: Residential
B4. Present Use: Residential
***B5. Architectural Style:** Milk Parlor Streamline Moderne
Houses Ranch
***B6. Construction History:** Described in narrative, below.
***B7. Moved?** ☑**No** ☐**Yes** ☐**Unknown** **Date:** N/A **Original Location:** N/A
***B8. Related Features:** None
B9a. Architect: Unknown b. Builder: Unknown
***B10. Significance: Theme:** N/A
Area: N/A **Period of Significance:** N/A
Property Type: N/A **Applicable Criteria:** N/A
Additional Resource Attributes: N/A
(Discuss importance in terms of historical/architectural context by theme, period, and geographic scope. Address Integrity.)
(Continued on Continuation Sheet, page 3.)

***B12. References:**

Agricultural Experiment Station. Dairy Cattle Housing. University of Wisconsin. 1949. 19.
Arnold, F.J. "Fifty Years of DHIA Work." Journal of Diary Science. 1956.
Belton, Herbert Logan, Long, James Dewey. Milk houses for California dairies. University of California, College of Agriculture, Agricultural Experiment Station, Berkeley. 1925. 6 – 9.
Britton & Rey. Map of Subdivision of Rancho Santa Ana del Chino. 1889.
California Dairy Press Room & Resources. "Nation's Dairy Leader." Department of Food & Agriculture, State of California. https://www.californiadairypressroom.com/Press_Kit/Nations-Dairy-Leader. 2023. Accessed August 9, 2023.California Marriage Index, 1960-1985. "Visser." 1966.
Chino Champion
"Births." Jun. 14, 1985, 13.
"Births: Sterkel." Feb. 15, 1985, 12.
"Births: Vandermuelen." Jun. 14, 1985, 13.
"Charles 'Chuck' Douma." Oct. 7, 2017, 27. "Child Dies From Fire Burns." May 31, 1972, 1.
"Chino Dairies Rank as Number 1 Industry." June 21, 1956.
"Chino Dairy Activities Are on Verge of Further Expansion." Jun. 16, 1950, 1.
"Chino Dairymen Get State Posts." May 20, 1965, 20.
"Chino Girl In Dairy Contest." Apr. 10, 1965, 36.
"Chino Valley People." Nov. 5, 2005, 10.
"Dairyman of Year." Jun. 8, 1979, 36.
"Fictitious Business Name Statement." Apr. 28, 2007, 41
"Fictitious Business Name Statement." Jul. 26, 2008, 23.
"Floris Ykema Names Milk Board Leaders." Dec. 28, 1973, 12.
"Floris Ykema Notes Increase In Milk Sales." Sep. 10, 1964, 11.
"Nation Pays Month-Long Tribute." June 24, 1954, 1.
"Still on Danger List: Trust Fund Set Up For Surviving Twin." Jun. 7, 1972, 1.
"Surviving Twin Dies Of Burns." Jun. 21, 1972, 1.
"Ykema Herd Tops Chino Valley Dairies." Nov. 18, 1954, 8.
"2677 Dairy Cows Tested In December." Jan. 14, 1954, 4.
Chino Hills Champion. "Fictitious Business Name Statement." Jul. 26, 2008, 23.
Chino Valley News
"One-Car Crash Kills Driver." Aug. 1, 1979, 1.



***B14. Evaluators:** Kara Brunzell, BCR Consulting, Claremont, California
***Date of Evaluation:** 5/22/2023

***P3a. Description: (continued):**

The roof is supported by square wood posts that rest on a half-height solid stucco wall. The building is in fair condition.



Photograph 2: 7260 Edison Avenue, west and south elevations, camera facing northeast, May 22, 2023.



Photograph 3: Edison Avenue milking parlor, south and east elevations, camera facing northwest, May 22, 2023.



Photograph 4: Edison Avene milking parlor, west and south elevations, camera facing northeast, May 22, 2023.

***B10 (continued from page 2).**

Ontario

The Gabrielino Native American group inhabited the area before the arrival of Spanish missionaries in the late eighteenth century. In 1839, after Mexico gained independence from Spain, the Mexican government granted the 12,000-acre Rancho de Cucamonga to Tiburcio Tapia. Americans began settling in California in large numbers during the Gold Rush in the 1840s, and California statehood in 1850 accelerated the process statewide. In 1881, George and William Chaffey purchased part of Rancho Cucamonga in order to develop Etiwanda, where they tested their ground-breaking irrigation and town planning ideas. That same year, the brothers purchased 6,000 acres (along with water rights) west of Etiwanda, which became the cities of Ontario and Upland. In 1883, the Chaffeys added the Kincaid Ranch at the mouth of San Antonio Canyon to their holdings. They established the Ontario Land Company and subdivided the land into 10-acre farm lots, all of which had street frontage (Emick 2011:17, 20; Clucas 2009:7).

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Aviation interests were introduced to Ontario in 1923 when Waldo Waterman and Archie Mitchell established Latimer Field in the city limits. As more people moved to Ontario, its urban growth forced aviators eastward until they established an airport at the current location of Ontario International Airport. During World War II, Ontario's airport brought many to the area for its pilot training facilities. It was about this time that the citrus industry that had contributed to Ontario's nascent years of growth started to experience a broad decline. Land

values increased as more and more Americans began moving westward and settling in the area. In subsequent years and decades, farmers sold their land to incoming residential developers. The population of Ontario swelled, and by the late 1950s, the city's residential area had expanded south and east. Manufacturing, defense, and dairy industries began to take the place of citrus as the local economic staples drawing in new residents. By the late twentieth century, manufacturing had waned and was replaced by service industries and warehousing. Today, the city has expanded to a population of more than 166,000 people living within a 50 square-mile area. The city's economic base is now heavily dependent on industrial and manufacturing, and with three freeways, three major railroads, and Ontario International Airport, the region is rich in transportation resources (City of Ontario; Galvin & Associates 2004:40-41).

Dairy Industry

The City of Ontario's Historic Context for the New Model Colony Area (Galvin & Associates 2004) has documented the local dairy industry, establishing periods of significance and a detailed framework for evaluation. The summary below draws from the context and other sources to provide sufficient historical framework to orient readers of these DPR 523 forms; the more comprehensive 2004 context may be consulted for additional detail.

Ontario and Chino are located in the Chino Valley basin of southwestern San Bernardino County. Dairy cows came to California with American settlers during the Gold Rush, and by 1876, a State Dairyman's Association had been organized. Dairies were first established in Chino Valley in the 1890s. The first dairy was most likely the Steel and Green Dairy, comprised of adobe buildings on the site of the Battle of Chino. The industry was based on free grazing during this era, and the availability of large tracts of fertile and inexpensive pastureland drew dairy farmers from Los Angeles County. However, most dairies in the region remained closer to Los Angeles population centers for several decades and citrus groves dominated the landscape through the end of the 1940s. Through 1930, the dairies in the region were small family businesses. Yet, by 1915, milk shipments already totaled over 6,000 pounds out of Chino. As Los Angeles County grew in population, so did the regional dairy industry. In the 1920s, many Dutch immigrants started dairy farms near Los Angeles. In the 1930s, to optimize milk production, dairies began switching from free grazing to dry-lot dairying and mechanized milking (Chino Champion 1977).

In the early years, the milking equipment was sanitized with steam tanks heated by oil burners. By 1920, dairy health and sanitation laws were established. Milk was originally filtered through cloth into the cans it was shipped in. The new laws required that a milk house had to be at least sixty feet from the barn, milkers must wear clean clothes before each milking, and milk house drains were constantly flushed with water. New ammonia colling systems were also created. After World War I, many cows in California had tuberculosis, thus pasteurization became a requirement. The Dairy Herd Improvement Association (DHIA), formerly the Cow Testing Association, was also created to improve the quality of the milk cattle (Chino Champion 1977). The association was started in the United States in 1906 by Danish immigrant Helmer Rabild and a small group of dairy farmers in Michigan. The Diary Division of the U.S. Department of Agriculture was the biggest supporter of the DHIA. By 1926, over one-hundred associations were established across the country (Arnold 1956).

During and after World War II, the Los Angeles Basin grew as a metropolitan area, pushing dairies to peripheral areas such as Chino Valley. In 1949, Chino dairies produced one-third of the total dairy production in San Bernardino County (Chino Champion 1950). In 1950, there were 79 dairies with an average of 145 cows to a herd in the Chino area (Chino Champion 1950). Suburbanization in Los Angeles County allowed dairymen, many of whom were Dutch, to purchase larger acreage and build bigger homes in Chino Valley. During this era, local dry lot operations (which purchased all feed) began to replace traditional dairy farms, which grew some or all cattle feed. By 1957, there were more than 135 dairies in Chino Valley. The late 1950s and early 1960s dairies established in Chino Valley were the most technologically sophisticated in the US, capable of milking 450 cows a day for each worker. Herringbone milking parlors, in which cows were raised on a platform so milkers did not have to kneel, became popular during this era to control labor costs. In 1960, an agricultural dairy preserve was established to protect the land from development, and by 1965, there were around 350 dairies in Chino Valley (Chino Champion 1977). In 1979, sixty percent of milk produced in California was from Chino Valley (Galvin & Associates 2004). Dairy products became California's number one agricultural commodity in 1993, and the state continued to lead the country in milk production throughout the twenty-first century (California Dairy Press Room & Resources 2023).

Streamline Moderne Milking Parlors

The City of Ontario's Historic Context for the New Model Colony Area (Galvin & Associates 2004) identified an unusual building type that characterizes historic-era dairies in the Ontario area, stating that the survey area has one of the largest concentrations of this building type in California. These milk parlors (also called milk houses or milk plants) are two-part buildings: a long, narrow shed with milking stalls for cows connected to a small cooling and processing building near a circular drive. The large utilitarian area where the cows are milked (historically referred to as the milking barn or milking parlor) has concrete masonry unit walls with large unglazed openings for ventilation and gabled roof. Floors are concrete for easy cleaning; stalls for cows are likewise designed for sanitation of concrete with metal stanchions. The processing/cooling/storage section of this building type (historically called the milk house or milk room) was not designed to be entered by cows or milkers. The milk houses are more visible from the public right-of-way than the barns, and thus more attention was paid to their aesthetic design. Many early examples, as documented in the Historic Context, exhibit simple Streamline Moderne architectural features including smooth symmetrical massing, stucco cladding, flat roofs with coping, curvilinear corners, and glass block windows. Larger and more elaborate examples have projecting center volumes, some with glass block at the curved corner.

The Historic Context theorized that these buildings would "most likely" have been constructed between 1920 and 1940, stating that more decorative Art Deco-style examples with geometric and angular edges as well as decorative chevrons or zigzags would have been constructed between 1920 and 1930, and that dairy owners transitioned to the Streamline Moderne style as described above between 1930 and 1940. Although revision of the 2004 Historic Context is outside the scope of the current study, some of the more serious flaws

and inconsistencies within its discussion of this property type must be addressed in order to evaluate examples of this building type. The Context accurately describes the building type and correctly states that the Ontario/Chino area appears to boast the largest concentration of the property type in the state. However, the Context does not provide any photographic examples of the more decorative Art Deco-style milk parlors that it states would have been constructed before 1930, nor have recent field investigations revealed any dairy buildings with ornamental features that directly reference Art Deco architecture; the existence of dairy buildings with strongly Art Deco ornament appears to have been conjectural. A careful reading of the Historic Context and a review of its bibliography reveal that no sources on Art Deco or Streamline Moderne architecture were cited (in contrast to its extensive bibliography on Ranch Style architecture). Nor does the bibliography include sources focused on the architecture of dairies, the development of dairy building typology over the twentieth century, the technical requirements of twentieth century dairy buildings, or contemporaneous trade journals that discuss best practices for dairy building construction. Furthermore, pages 44 – 48 of the Context have no citations whatsoever. Thus, close examination reveals that its preparers developed the 1920 – 1940 period of significance based on the widely understood fact that the Art Deco/Streamline Moderne architectural movement was popular during this era and that Streamline Moderne grew out of Art Deco during the Great Depression. However reasonable this assumption may have been, it was not based on evidence. As demonstrated below, these buildings were not developed between 1920 and 1940.

The use of glass block is virtually ubiquitous in these milk plants and is one of the most important character-defining features of the building type. Glass block construction was pioneered in the US for a New York hotel built in 1928. Production of glass block began about 1932 and the material was featured at the 1933 – 1934 Chicago Century of Progress International Exhibition and the 1939 World's Fair in New York, helping to popularize it. The height of its use was from the late 1930s through the 1940s. It became an essential element of the Streamline Moderne style since it could be incorporated into curving wall surfaces (Fagan 2015). The development history of this material definitively demonstrates that Streamline Moderne milking parlors could not have been constructed in the Chino Valley prior to 1933 at the absolute earliest. In 1925, the University of California College of Agriculture published recommendations for milk house design and construction. Although concern for sanitary conditions had led to a recommendation for the use of concrete flooring for milking parlors and milk houses during this era, best practice continued to advise wood-frame wall construction with wood sheathing and double-hung wood sash windows with screens. In the 1920s, glass block and concrete masonry units were not yet being recommended as building materials by organizations promoting progressive dairying (Belton 1925).

Although glass block was in production by the mid-1930s and theoretically could have been utilized, its use for dairy buildings would have been unlikely, since building materials trends begin in urban areas and arrive later to farming operations, where utilitarian considerations are more important than style. Review of historic aerial photographs provides further evidence that the building type was not in local use during the 1920s and 1930s. Review of historic aerial photographs for a roughly two square mile area (including the current project area) has revealed that it eventually held at least 17 of these buildings. Only two milking parlors that fit the typology had been constructed by 1949 and by 1953 there were still only two in the study area (USDA Aerial Photographs 1949, 1953, 1975). Furthermore, review of local newspapers reveals few if any new dairies established during the 1930s, and expansion of existing operations appears to have been modest during these Great Depression years. Extensive comparative research has revealed no existing California cultural resource reports or academic papers that have analyzed the building type. Several historic photographs of Los Angeles County dairies were discovered, and these demonstrate that the property type was in use in areas like Bellflower and Artesia during the 1940s and 1950s; the oldest dated photograph of a Streamline Moderne milking parlor in Artesia is from 1940. The Streamline Moderne milking parlor appears to have traveled from Los Angeles County to Ontario in the 1940s as dairymen began to move their operations to western San Bernardino County, and the trend accelerated rapidly in the mid-1950s along with the continued migration of dairies to Chino Valey. A 1940 article in the Chino Champion describes the Abacherli Dairy at the intersection of Walnut and San Antonio avenues as a state-of-the-art local dairy plant. Although the article does not include photographs, a milk house of concrete construction with concrete floors is described and may have been an early example of the typology (Chino Champion 1940). By 1947, the Journal of Dairy Science was recommending glass block for use in milk processing plants because it provided illumination without allowing dirt to infiltrate like an open window. The same publication also praises its "modern look" (Nelson: 1947). Other dairy-oriented publications also recommended use of the glass block and masonry construction in the late 1940s (University of Wisconsin: 1949). And the extant Streamline Moderne milk parlor at the Grant Dairy (in the current study area) is known to have been built in 1947 or 1948.

The local popularity of glass block in milking parlors appears to have peaked in the 1950s, when many local examples of this building type were constructed. Glass blocks were heavily advertised in dairy trade journals throughout the 1950s, and construction of the building typology continued into the 1960s. A Streamline Moderne milking parlor appears in a 1956 article contrasting "modern dairy plants" with the large wooden barns of the early twentieth century (Chino Champion 1956). (Although its construction date is not specifically mentioned, it would be unlikely for a local newspaper to tout a building as "modern" if it were more than two or three years old.) Although documents that substantiate exact dates for construction of Streamline Moderne milk parlors in Ontario have not been discovered, available evidence indicates that most were constructed between 1940 and 1965. Since we have demonstrated that the actual construction of this building type did not take place within the Art Deco era (1920 – 1940) this study will use Streamline Moderne Milk Parlor in reference to this building type and will consider the period of significance 1940 – 1965.

Subject Property History

The dairy at 7260 and 7244 Edison Avenue was Lots 19 & 36 of Section 18 of Mexican land grant Rancho Santa Ana del Chino. The roughly 18 acres of farmland changed hands several times during the first decades of the twentieth century; although there was a small building set well back from Edison Avenue near the western parcel boundary by the 1930s, there is no indication that any of its early owners lived on the property. Nor has research revealed specific information about its early agricultural use.

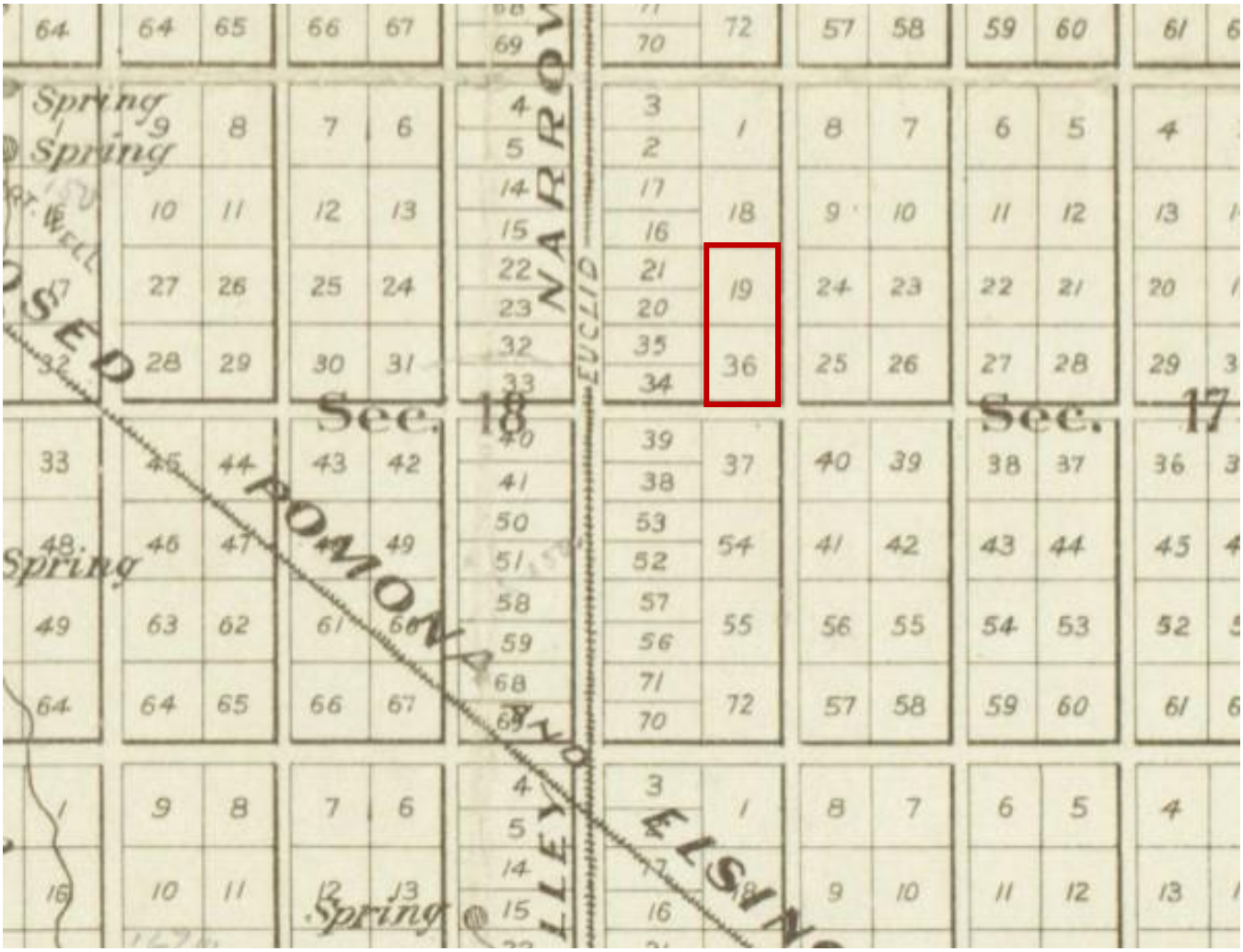


Figure 1: Britton & Rey Map of Subdivision of Rancho Santa Ana del Chino, 1889, Subject property outlined in red.



Figure 2: Lots 18 & 36 outlined in red prior to development of current buildings, USDA Aerial, 1936.

The older house at 7244 Edison Avenue was constructed about 1950. The first known operators of a dairy on the property were Floris and Harriet Ykema. Born in Iowa, Floris Ykema (1920-1986) married his wife, Harriet, in 1942 and they moved to California in 1945 after he served in World War II. He worked for a dairy before starting his own in Chino. In 1954, the Chino Champion reported that the property was a new dairy operated by Floris Ykema (Chino Champion 1954). Floris and Harriet moved into the house with their young daughters Alicia, Ruth Ann, and Gladys. The family attended the First Christian Reformed Church in Chino and Floris served on the board for the Ontario Christian School. The second residence at 7260 Edison Avenue was built in 1957, and the family moved into the new Ranch-style house. The Streamline Moderne milking parlor was built between the residences about the same time, and corrals for the cows as well as pole shade structures were developed to the north of the buildings.



Figure 3: Subject property with blue arrow showing original residence (c1950) at 7244 Edison Avenue, USDA Aerial, 1953.



Figure 4: Subject property, blue arrow showing c1957 Milk Parlor and house with corrals to the north, USDA Aerial, 1959.

Ykema became an industry leader in the area; in his first year of local operation, Ykema's herd had the highest butterfat average for October (Chino Champion 1954). Ykema became the president of the District 10 of the American Dairy Association of California, and the chairman of the California Milk Advisory board (Chino Champion 1973). He became an outspoken advocate for the industry and was frequently quoted in newspapers across California. The Ykema dairy operation continued to grow, and by the 1970s he was considered a major producer. He also purchased two other diaries in Chino and leased a dairy in Hanford (Chino Champion 1979). In 1979, Ykema was elected Dairyman of the Year.

In the early 1970's, the property was also home to Jim Visser (b.1944), and Thelma DeBoer Visser (b.1944) in 1966. They moved into 7244 Edison Avenue about 1970, the year their twin sons were born. Their sons, Jarrod and Arlan Visser, died after a gasoline fire in their garage in 1972 (Chino Champion 1972). The Vissers stayed on the property until at least 1974.

In 1981, the Ykemas sold the property at 7260 Edison Avenue to Donald and Wilma Van Dam. They owned an additional dairy in El Mirage, the Van Dam Dairy (Chino Champion 1979). They remained in the dairy business, with property on Edison Avenue until 2005, when their family and dairy moved to New Mexico (Chino Champion 2005).

In 1985, Gordon and Jo Ann Vander Meulen lived at 7260 Edison Avenue with their daughter. The same year, Norman Sterkel and Lori Lindholm lived at 7244 Edison Avenue, with their daughter Emily Ann (Chino Champion 1985). In 2008, Eugene Cellier III lived at 7260 Edison Avenue. In 2007, Cellier started the company Bottoms Up Hooftrimming in Chino. The following year he purchased Central Mower Service in Chino from the previous owner, Charles Douma.

Evaluation of New Model Colony Area Associations

The subject property has no extant buildings constructed prior to the 1950s, it therefore has no potential association with the following historic contexts identified in the City of Ontario Historic Context for the New Model Colony Area: 1. Pre-1930 Rural Residential or Free-Grazing Dairy Properties and 3.1930-1949 - Dry Lot Dairying with Mechanization. Since two milking parlor on the property was constructed during the 1950s, it is a potential example of 4. Post-1950 - Scientific, Large Capacity Dairies, although it does not meet the minimum characteristics as analyzed in greater detail below.

As analyzed below, it is an example of 2. Art Deco or Streamline Moderne Milk Parlors. New facts uncovered during the current study indicate that Context 2 should be revised to Streamline Moderne Milk Parlors (1940 – 1965).

2. Art Deco or Streamline Moderne Milk Parlors minimum characteristics according to Historic Context:

> modestly sized, rectangular, two part, one story milking parlor designed in the Art Deco or Streamline Moderne architectural styles. The property must exhibit those character-defining features that are generally recognized with these styles, as described above. The property also must include a circular driveway in front of the building. It may include landscaping features, but these are not essential.

The subject property exhibits the minimum characteristics of the building type according to the Historic Context. (As discussed at length above, although the Historic Context incorrectly dated this building typology, it accurately described it and identified it as significant.) Since the milking parlor retains its circular drive, glass block windows on the primary elevation, and other architectural features of the style as well as the utilitarian back section for milking, it qualifies as a high integrity example of this historic building typology and is therefore eligible for local listing according to the Historic Context.

4. Post-1950 - Scientific, Large Capacity Dairies minimum characteristics according to Historic Context:

> at least one large residence that dates to this period in the Ranch architectural style that exhibits little alteration, a large "herringbone style" milking parlor designed in the Ranch style, a circular driveway, numerous geometrically spaced rows of pole structures and other related dairy facilities, and a vast expanse of open space to the rear of the property. The property may have multiple large residences and a few smaller workers' residences.

The subject property has one Streamline Moderne milking parlors that date from this era, but it lacks a Ranch-style milking parlor exhibiting the later herringbone style as required for significance under the Historic Context; it also has a circular driveway. However, the current property at 18 acres is not close to the average 40-acre size of properties within this context. Furthermore, the subject property lacks a large Ranch-style residence. In the other facilities development during the 1950s such as the large pole structures to the north of the houses and no hardware have been demolished. Therefore, according to the standards set forth by the Historic Context, the property no longer conveys its historic association as a post-1950 Scientific, Large Capacity dairy property.

Since the property qualifies as a high integrity example of a Streamline Moderne Milk parlor is eligible for local listing under Context 2 but ineligible under the other contexts as set forth in the Historic Context.

National Register and California Register Evaluation

The National Register of Historic Places and California Register of Historical Resources require that a significance criterion from A-D or 1-4 (respectively) be met for a resource to be eligible. A resource is eligible if (A/1) it is associated with events that have made a significant contribution to the broad patterns of our history; (B/2) it is associated with the lives of persons important in our past; (C/3) it embodies the distinctive characteristics of a type, period, region, or method of construction, or represents the work of an important creative individual, or possesses high artistic value; or (D/4) it has yielded or is likely to yield information important in prehistory or history. The California Register

also requires that sufficient time has passed since a resource's period of significance (normally 45 years) to "obtain a scholarly perspective on the events or individuals associated with the resources" (CCR 4852 [d][2]).

Criterion A/1: The property at 7244 & 7260 Edison Avenue was constructed within the context of residential and agricultural development in Ontario and is generally associated with the development of the dairy industry in the Chino Valley. Its owner and developer was Floris Ykema, a dairy industry leader who made the property an exemplary dairy almost as soon as it is established, it is significant within historic context of development of the dairy industry. Therefore, the property is recommended eligible to the NRHP or CRHR under Criterion A/1.

Criterion B/2: The property is associated with the life of a person important to our history. Floris Ykema was a leader in the industry, who began winning prizes for quality the year the property was established. He was active in the community, serving on the school board as well as in elected positions representing the industry throughout California. Although he expanded his operation over the decades, he continued to live on the subject property for most of his productive life. Therefore, the property exhibits the association required for eligibility under Criterion B/2. The property is recommended eligible to the NRHP or CRHR under Criterion B/2.

Criterion C/3: The two residences are not significant for their architecture and do not contribute to the architectural significance of the property. Research did not reveal any architects or important builders associated with their construction. The buildings are unremarkable examples of 1950s residences in Ontario and have also been altered outside the historic era. However, the c1957 milking parlor is an excellent example of a Streamline Moderne milk parlor, which has been previously identified in a historic context statement as an important local property type. It features design elements such as the rounded corners of the facades, a shaped parapet, glass block windows, and a flat clay tile roof. For these reasons, it is recommended eligible for the National Register or California Register under Criterion C/3.

Criterion D/4: In rare instances, buildings themselves can serve as sources of important information about historic construction materials or technologies and be significant under Criterion D/4. 7244 & 7260 Edison Ave are examples of well-understood types of construction and do not appear to be a principal source of important information in this regard.

Integrity. Eligible resources must retain integrity sufficient to convey that eligibility and to qualify as significant resources under CEQA. Integrity is measured by the degree to which a resource retains its historic location, design, setting, materials, workmanship, feeling, and/or association. The property has not been moved and thus retains integrity of location.

The original historic fabric of the milk parlor appears intact despite the entrance being boarded up. Therefore, the property retains integrity of design, materials, and workmanship.

Although the neighborhood around the subject property has become more heavily developed over the decades, the immediate vicinity of the property including adjacent parcels remain mostly open and undeveloped land, and there are several other historic-era dairies in the immediate vicinity. Therefore, the property retains integrity of setting.

Intrusion of non-historic-era buildings near the milking parlor has resulted in some erosion of integrity of feeling. However, the property retains character-defining features that strongly evoke the feeling of a c1957 milking parlor: smooth stucco finish, projecting center volume, rounded corners, shaped parapet, and decorative clay tile roof. These essential and defining features would allow the building to strongly evoke the feeling of a Streamline Moderne milk parlor if additions were removed. The physical features that characterized the original building are sufficiently intact to convey its historic character as a 1940 – 1965 milking parlor. It therefore retains integrity of association.

The milking parlor retains sufficient integrity to convey its identity as a c1957 dairy building.

The subject property and its constituent c1957 milking parlor are therefore recommended eligible for listing on the National Register or the California Register, and as such qualifies as a historical resource under the California Environmental Quality Act (CEQA). Thus, BCR Consulting recommends the National Register of Historic Places Status Code "3S ".

***B12. References (Cont.):**

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Emick, Paula. Images of America: Rancho Cucamonga. Arcadia Publishing: Charleston, South Carolina. 2011.Fagan, Elizabeth. BUILDING WALLS OF LIGHT: THE DEVELOPMENT OF GLASS BLOCK AND ITS INFLUENCE ON AMERICAN ARCHITECTURE IN THE 1930s. Master's Thesis, Graduate School of Architecture, Planning, and Preservation, Columbia University. May 2015. 1, 23.
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Ontario City Library. Early Ontario. Arcadia Publishing: Charleston, South Carolina. 2014.

San Bernardino County Sun.
"FTC Admits Probe of Food Industry May Take Years."
Dec. 1, 1974, 7.

***Recorded by:** J. Orozco, T. Blood, D. Kazmier ***Date:** October 31, 2022 ☐ Continuation ☑ Update

This resource was originally recorded in 2010 by Urbana Preservation and Planning as a historic-period transmission line called the Chino-Mira Loma No.1 Transmission Line. BCR Consulting archaeologists revisited the resource during survey and found it to be as previously recorded.



Photo 1: Overview of Transmission Line, View NE.

REFERENCES:

Tinsley Becker, Wendy L.
Urbana Preservation & Planning, LLC, *Southern California Edison Company's Techapi Renewable Transmission Project Historic Infrastructure Eligibility Evaluation – NRHP/CRHR Review Chino-Mira Loma No. 1 220kV Transmission Line, July 2010.*

APPENDIX C

NATIVE AMERICAN HERITAGE COMMISSION SACRED LANDS FILE SEARCH

NATIVE AMERICAN HERITAGE COMMISSION

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
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Stanley Rodriguez
Kumeyaay

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November 15, 2022

David Brunzell
BCR Consulting LLC

Via Email to: bcrllc2008@gmail.com

Re: Euclid Mixed Use Specific Plan Project (KIM2223), San Bernardino County

Dear Mr. Brunzell:

A record search of the Native American Heritage Commission (NAHC) Sacred Lands File (SLF) was completed for the information you have submitted for the above referenced project. The results were negative. However, the absence of specific site information in the SLF does not indicate the absence of cultural resources in any project area. Other sources of cultural resources should also be contacted for information regarding known and recorded sites.

Attached is a list of Native American tribes who may also have knowledge of cultural resources in the project area. This list should provide a starting place in locating areas of potential adverse impact within the proposed project area. I suggest you contact all of those indicated; if they cannot supply information, they might recommend others with specific knowledge. By contacting all those listed, your organization will be better able to respond to claims of failure to consult with the appropriate tribe. If a response has not been received within two weeks of notification, the Commission requests that you follow-up with a telephone call or email to ensure that the project information has been received.

If you receive notification of change of addresses and phone numbers from tribes, please notify me. With your assistance, we can assure that our lists contain current information.

If you have any questions or need additional information, please contact me at my email address: Cameron.vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

Attachment

Native American Heritage Commission
Native American Contact List
San Bernardino County
11/15/2022

Agua Caliente Band of Cahuilla Indians
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Gabrieleno Band of Mission Indians - Kizh Nation
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Gabrieleno/Tongva San Gabriel Band of Mission Indians
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Gabrielino Tongva Indians of California Tribal Council
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This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Euclid Mixed Use Specific Plan Project (KIM2223), San Bernardino County.

Native American Heritage Commission
Native American Contact List
San Bernardino County
11/15/2022

Morongo Band of Mission Indians
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Kw'ts'an Cultural Committee
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This list is current only as of the date of this document. Distribution of this list does not relieve any person of statutory responsibility as defined in Section 7050.5 of the Health and Safety Code, Section 5097.94 of the Public Resource Section 5097.98 of the Public Resources Code.

This list is only applicable for contacting local Native Americans with regard to cultural resources assessment for the proposed Euclid Mixed Use Specific Plan Project (KIM2223), San Bernardino County.

APPENDIX D

PROJECT PHOTOGRAPHS



Photo 1: Project Overview



Photo 2: Project Overview



Photo 3: 13813 Euclid Avenue Art Deco Milk Parlor



Photo 4: 13813 Euclid Avenue Residence



Photo 5: 7275 Schaefer Avenue

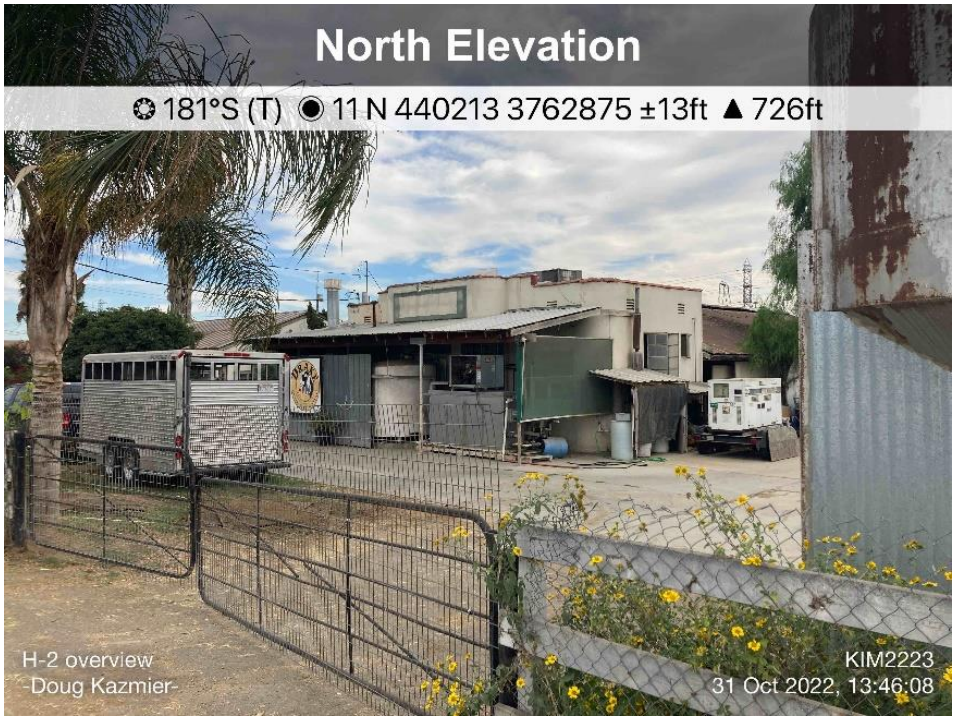


Photo 6: 7275 Schaefer Avenue c1955 (Western) Milk Parlor

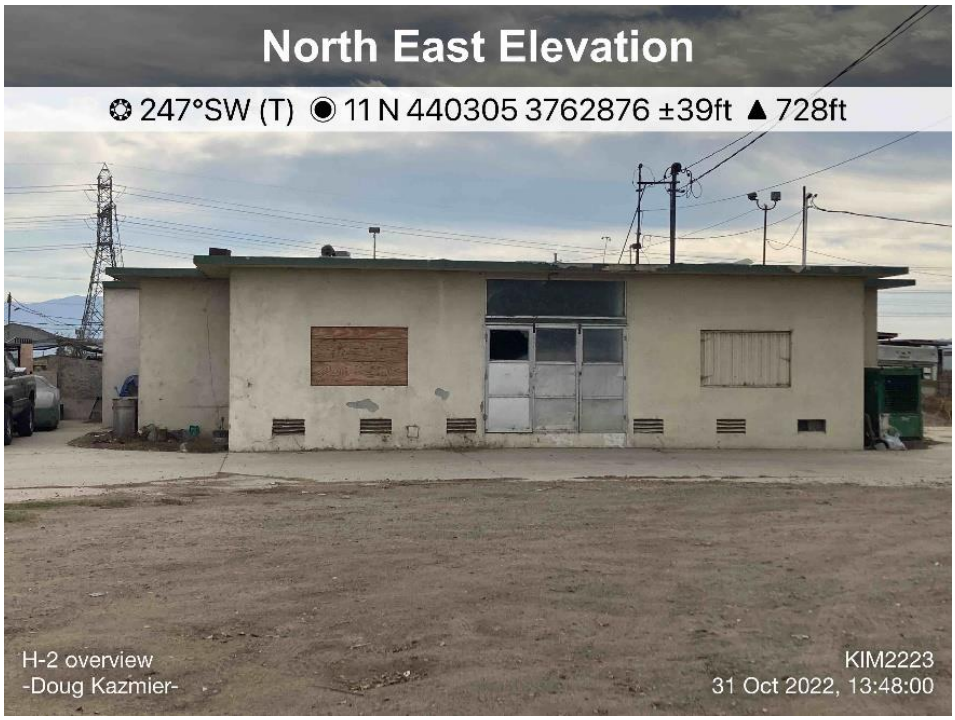
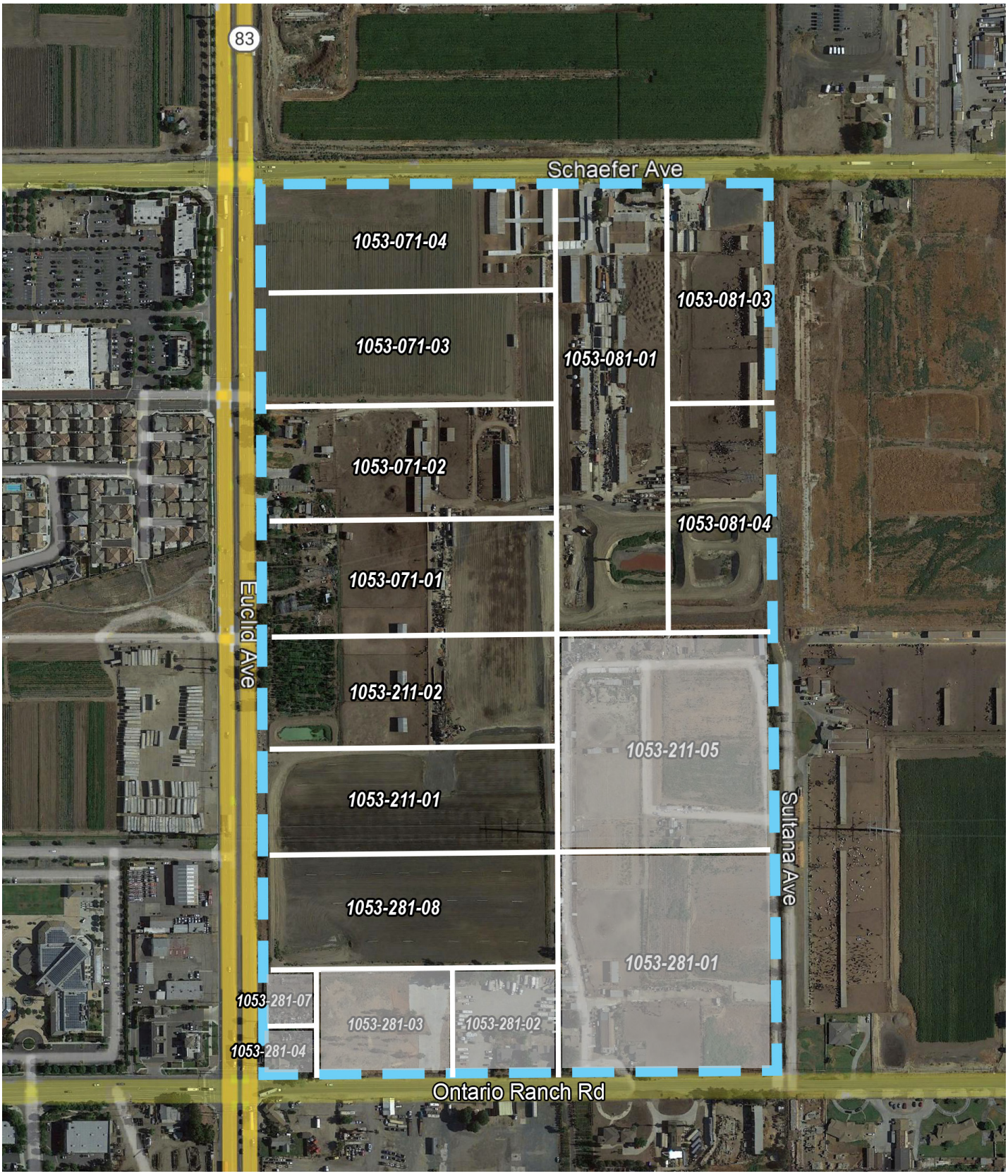


Photo 7: 7275 Schaefer Avenue 1959-1966 (Eastern) Milk Parlor

APPENDIX E

FIELD SURVEY COVERAGE



SPECIFIC PLAN BOUNDARY

000-00-00 EXISTING ASSESSOR PARCEL NUMBER (APN)

AREAS NOT ACCESSIBLE FOR DIRECT FIELD VISIT

APPENDIX F

PALEONTOLOGICAL RESOURCES OVERVIEW

WESTERN SCIENCE CENTER

October 25th, 2022

BCR Consulting, LLC
Joseph Orozco
505 W. 8th St.
Claremont, CA 91711

Dear Mr. Orozco,

This letter presents the results of a record search conducted for the Euclid Mixed Use Specific Plan Project located in the city of Ontario, San Bernardino County, CA. The project site is north of Edison Avenue, south of Schaefer Avenue, and east of Euclid Avenue on Township 2 South, Range 7 West, in an unsectioned portion of the *Ontario, CA* and *Prado Dam, CA* USGS 7.5 minute quadrangles.

The geologic units underlying the project area are mapped primarily as young alluvial deposits from the Holocene and late Pleistocene epochs (Morton and Miller 2006). Holocene alluvial units are considered to be of high preservation value, but material found is unlikely to be fossil material due to the relatively modern associated dates of the deposits. However, Pleistocene alluvial units are considered to be highly paleontologically sensitive. The Western Science Center does not have localities within the project area or within a 1 mile radius. However, this is likely due to the project area's distance from the museum and should not be taken as indicative of paleontological sensitivity; other repositories may have localities in the area.

Any fossil specimen from the Euclid Mixed Use Specific Plan Project would be scientifically significant. Excavation activity associated with the development of the project area would impact the paleontologically sensitive Pleistocene alluvial units, and it is the recommendation of the Western Science Center that a paleontological resource mitigation program be put in place to monitor, salvage, and curate any recovered fossils associated with the study area.

If you have any questions, or would like further information, please feel free to contact me at bstoneburg@westerncentermuseum.org.

Sincerely,

Brittney Elizabeth Stoneburg, MSc
Collections Manager

Euclid Mixed Use Specific Plan Project

project area + 1 mile radius

Legend

- 1 Mile Radius
- Euclid Mixed Use Specific Plan Project
- Q: Quaternary alluvium and marine deposits (Pliocene to Holocene)

Walnut Ave
E Walnut St
Euclid Ave
Chino High School
Riverside Dr
East Riverside Dr
Swapmeet De Chino
S Grove Ave
Westwind Park
Chino
Benson Ave
Chino Ave
Mountain Ave
San Antonio Ave
Schaefer Ave
ONTARIO RANCH
Edison Ave
Ruben S. Ayala Park
Central Ave
Eucalyptus Ave
Merrill Ave
California Institution for Men
Planes of Fame Air Museum
S Archibald Ave
83
60

Survey

Google Earth

N

1 mi

APPENDIX D2

HISTORIC RESOURCE RELOCATION FEASIBILIITY STUDY

November 17, 2023

Jason Lee
V.P. RCCD Inc.
jasonl@rccdinc.com

Reference: **RELOCATION OF MILKING PARLORS – FEASIBILITY STUDY**
VENEGAS FARM (13813 EUCLID AVE) AND DRAKE FARM (7275 SCHAEFER AVE)
ONTARIO, CALIFORNIA
[S.F. PROJECT #23278]

Dear Jason:

We have completed our feasibility study for the relocation of two historic milking parlors located on the Venegas Farm (13813 Euclid Ave.) and the Drake Farm (7275 Schaefer Ave.) in Ontario, CA. Our findings are based on visual observations made while on both sites on October 25, 2023. Art Venegas, the owner of the Venegas Farm, accompanied us on the site visit. No existing building drawings or backgrounds were provided for our use, and no exploratory demolition or materials investigation was performed as part of the site visit.

Building Description

The two milking parlor buildings are rectangular in plan and have several similarities. Both buildings are separated into a smaller front portion and a larger back portion.

The front portion of both buildings is an enclosed space that is approximately thirty-six (36) feet wide by fifteen (15) feet deep and contains storage tanks for the milk product, washrooms, and storage rooms. Wood framed stud walls are supported on concrete (or possibly concrete block) stem walls. Several glass block infill windows are in the wood stud walls. The ceiling and roof are wood framed.

The back portion of both buildings is much larger with the same width (approximately 36 feet) but extends more than three times the depth of the front portion. The back portion of the building is a covered pole structure with open air sides above an approximately four (4) foot tall stem wall. Four lines of steel pipe posts (two on the perimeter and two interior lines) support the wood joist and corrugated metal roof. Animal stalls and equipment for milking operations fill this portion of the building.

Foundations for the buildings are not visible but are presumed to be concrete spread footings below the stem walls and pipe posts.

There are some differences between the two buildings (Venegas parlor and Drake parlor).

1. The concrete (or concrete block) stem walls below the wood framed walls at the front portion of the parlor are between two (2) feet and three (3) feet tall in the Drake parlor. The height of the stem walls in the Venegas parlor was difficult to measure but they are much taller – potentially full height to the ceiling framing.

2. The back portion of parlors are different in depth. The Drake parlor depth is approximately fifty-two (52) feet, and the Venegas parlor was originally approximately one hundred (100) feet deep.

3. The back portion of the Venegas parlor has been modified with the removal of the two (2) interior lines of steel pipe posts. Modifications to the roof framing were made to allow the roof to span the width of the building.

Site Visit Observations

The Drake parlor is in relatively good condition and is functioning as a working parlor. The Venegas parlor is also functioning as a working parlor, but the wood and corrugated metal roof on the back portion is in bad condition. Approximately twenty (20) feet at the back of the building has been demolished, and the back twenty (20) feet of the existing building is severely deteriorated and in danger of collapsing. Shoring the back deteriorated portion was recommended while on site.

Conclusions

It is our opinion that it is feasible to relocate the Drake parlor to a receiver site. The front portion of the parlor can be separated from the back portion to facilitate the building relocation. The wood framed walls in the front portion could be detached and lifted off the stem walls. New foundations and stem walls would need to be constructed at the receiver site to support the relocated wood portion. The back portion could be lifted at the four (4) lines of steel pipe posts for relocation of the posts and roof. The perimeter stem wall and animal stalls would need to be rebuilt at the receiver site.

The Venegas parlor would be much more challenging to relocate. The front portion of the parlor could be separated and lifted off the stem walls. But the stem walls are much taller than the Drake parlor, so the portion lifted would basically be the wood roof framing. In addition, the back portion of the parlor has been modified and is severally deteriorated. Relocating the back portion is not feasible.

Summary

Drake Parlor - It **is** feasible to relocate the building in its entirety (with the exception of the stem walls in the front and back portion of the parlor and the animal stalls in the back portion of the parlor).

Venegas Parlor – The roof of the front portion of the building could be lifted and relocated. It **is not** feasible to relocate the remainder of the front portion and the entire back portion of the building.

Thank you very much for the opportunity to work with you on this challenging and interesting project. If you have any questions, please feel free to contact us at your convenience.

Sincerely,
STRUCTURAL FOCUS





Russell Kehl, S.E.
Principal, President

APPENDIX D3

NATIVE AMERICAN CONSULTATION

NAHC CONSULTATION

NATIVE AMERICAN HERITAGE COMMISSION

Governor's Office of Planning & Research

FEB 17 2023

STATE CLEARING HOUSE

February 14, 2023

Edmelynne V. Hutter
City of Ontario
303 East B Street
Ontario, CA 91764

Re: 2023020281, Euclid Mixed Use Specific Plan Project, San Bernardino County

Dear Ms. Hutter:

The Native American Heritage Commission (NAHC) has received the Notice of Preparation (NOP), Draft Environmental Impact Report (DEIR) or Early Consultation for the project referenced above. The California Environmental Quality Act (CEQA) (Pub. Resources Code §21000 et seq.), specifically Public Resources Code §21084.1, states that a project that may cause a substantial adverse change in the significance of a historical resource, is a project that may have a significant effect on the environment. (Pub. Resources Code § 21084.1; Cal. Code Regs., tit.14, §15064.5 (b) (CEQA Guidelines §15064.5 (b)). If there is substantial evidence, in light of the whole record before a lead agency, that a project may have a significant effect on the environment, an Environmental Impact Report (EIR) shall be prepared. (Pub. Resources Code §21080 (d); Cal. Code Regs., tit. 14, § 5064 subd.(a)(1) (CEQA Guidelines §15064 (a)(1)). In order to determine whether a project will cause a substantial adverse change in the significance of a historical resource, a lead agency will need to determine whether there are historical resources within the area of potential effect (APE).

CEQA was amended significantly in 2014. Assembly Bill 52 (Gatto, Chapter 532, Statutes of 2014) (AB 52) amended CEQA to create a separate category of cultural resources, "tribal cultural resources" (Pub. Resources Code §21074) and provides that a project with an effect that may cause a substantial adverse change in the significance of a tribal cultural resource is a project that may have a significant effect on the environment. (Pub. Resources Code §21084.2). Public agencies shall, when feasible, avoid damaging effects to any tribal cultural resource. (Pub. Resources Code §21084.3 (a)). **AB 52 applies to any project for which a notice of preparation, a notice of negative declaration, or a mitigated negative declaration is filed on or after July 1, 2015.** If your project involves the adoption of or amendment to a general plan or a specific plan, or the designation or proposed designation of open space, on or after March 1, 2005, it may also be subject to Senate Bill 18 (Burton, Chapter 905, Statutes of 2004) (SB 18). **Both SB 18 and AB 52 have tribal consultation requirements**. If your project is also subject to the federal National Environmental Policy Act (42 U.S.C. § 4321 et seq.) (NEPA), the tribal consultation requirements of Section 106 of the National Historic Preservation Act of 1966 (154 U.S.C. 300101, 36 C.F.R. §800 et seq.) may also apply.

The NAHC recommends consultation with California Native American tribes that are traditionally and culturally affiliated with the geographic area of your proposed project as early as possible in order to avoid inadvertent discoveries of Native American human remains and best protect tribal cultural resources. Below is a brief summary of portions of AB 52 and SB 18 as well as the NAHC's recommendations for conducting cultural resources assessments.

Consult your legal counsel about compliance with AB 52 and SB 18 as well as compliance with any other applicable laws.

AB 52

CHAIRPERSON
Laura Miranda
Luiseño

VICE CHAIRPERSON
Reginald Pagaling
Chumash

SECRETARY
Sara Dutschke
Miwok

COMMISSIONER
Isaac Bojorquez
Ohlone-Costanoan

COMMISSIONER
Buffy McQuillen
Yokayo Pomo, Yuki, Nomlaki

COMMISSIONER
Wayne Nelson
Luiseño

COMMISSIONER
Stanley Rodriguez
Kumeyaay

COMMISSIONER
[Vacant]

COMMISSIONER
[**Vacant**]

EXECUTIVE SECRETARY
Raymond C. Hitchcock
Miwok/Nisenan

NAHC HEADQUARTERS
1550 Harbor Boulevard
Suite 100
West Sacramento,
California 95691
(916) 373-3710
nahc@nahc.ca.gov
NAHC.ca.gov

AB 52 has added to CEQA the additional requirements listed below, along with many other requirements:

1. Fourteen Day Period to Provide Notice of Completion of an Application/Decision to Undertake a Project: Within fourteen (14) days of determining that an application for a project is complete or of a decision by a public agency to undertake a project, a lead agency shall provide formal notification to a designated contact of, or tribal representative of, traditionally and culturally affiliated California Native American tribes that have requested notice, to be accomplished by at least one written notice that includes:

- **a.** A brief description of the project.
- **b.** The lead agency contact information.
- **c.** Notification that the California Native American tribe has 30 days to request consultation. (Pub. Resources Code §21080.3.1 (d)).
- **d.** A "California Native American tribe" is defined as a Native American tribe located in California that is on the contact list maintained by the NAHC for the purposes of Chapter 905 of Statutes of 2004 (SB 18). (Pub. Resources Code §21073).

2. Begin Consultation Within 30 Days of Receiving a Tribe's Request for Consultation and Before Releasing a Negative Declaration, Mitigated Negative Declaration, or Environmental Impact Report: A lead agency shall begin the consultation process within 30 days of receiving a request for consultation from a California Native American tribe that is traditionally and culturally affiliated with the geographic area of the proposed project. (Pub. Resources Code §21080.3.1, subds. (d) and (e)) and prior to the release of a negative declaration, mitigated negative declaration or Environmental Impact Report. (Pub. Resources Code §21080.3.1(b)).

- **a.** For purposes of AB 52, "consultation shall have the same meaning as provided in Gov. Code §65352.4 (SB 18). (Pub. Resources Code §21080.3.1 (b)).

3. Mandatory Topics of Consultation If Requested by a Tribe: The following topics of consultation, if a tribe requests to discuss them, are mandatory topics of consultation:

- **a.** Alternatives to the project.
- **b.** Recommended mitigation measures.
- **c.** Significant effects. (Pub. Resources Code §21080.3.2 (a)).

4. Discretionary Topics of Consultation: The following topics are discretionary topics of consultation:

- **a.** Type of environmental review necessary.
- **b.** Significance of the tribal cultural resources.
- **c.** Significance of the project's impacts on tribal cultural resources.
- **d.** If necessary, project alternatives or appropriate measures for preservation or mitigation that the tribe may recommend to the lead agency. (Pub. Resources Code §21080.3.2 (a)).

5. Confidentiality of Information Submitted by a Tribe During the Environmental Review Process: With some exceptions, any information, including but not limited to, the location, description, and use of tribal cultural resources submitted by a California Native American tribe during the environmental review process shall not be included in the environmental document or otherwise disclosed by the lead agency or any other public agency to the public, consistent with Government Code §6254 (r) and §6254.10. Any information submitted by a California Native American tribe during the consultation or environmental review process shall be published in a confidential appendix to the environmental document unless the tribe that provided the information consents, in writing, to the disclosure of some or all of the information to the public. (Pub. Resources Code §21082.3 (c)(1)).

6. Discussion of Impacts to Tribal Cultural Resources in the Environmental Document: If a project may have a significant impact on a tribal cultural resource, the lead agency's environmental document shall discuss both of the following:

- **a.** Whether the proposed project has a significant impact on an identified tribal cultural resource.
- **b.** Whether feasible alternatives or mitigation measures, including those measures that may be agreed to pursuant to Public Resources Code §21082.3, subdivision (a), avoid or substantially lessen the impact on the identified tribal cultural resource. (Pub. Resources Code §21082.3 (b)).

7. Conclusion of Consultation: Consultation with a tribe shall be considered concluded when either of the following occurs:

a. The parties agree to measures to mitigate or avoid a significant effect, if a significant effect exists, on a tribal cultural resource; or

b. A party, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached. (Pub. Resources Code §21080.3.2 (b)).

8. Recommending Mitigation Measures Agreed Upon in Consultation in the Environmental Document: Any mitigation measures agreed upon in the consultation conducted pursuant to Public Resources Code §21080.3.2 shall be recommended for inclusion in the environmental document and in an adopted mitigation monitoring and reporting program, if determined to avoid or lessen the impact pursuant to Public Resources Code §21082.3, subdivision (b), paragraph 2, and shall be fully enforceable. (Pub. Resources Code §21082.3 (a)).

9. Required Consideration of Feasible Mitigation: If mitigation measures recommended by the staff of the lead agency as a result of the consultation process are not included in the environmental document or if there are no agreed upon mitigation measures at the conclusion of consultation, or if consultation does not occur, and if substantial evidence demonstrates that a project will cause a significant effect to a tribal cultural resource, the lead agency shall consider feasible mitigation pursuant to Public Resources Code §21084.3 (b). (Pub. Resources Code §21082.3 (e)).

10. Examples of Mitigation Measures That, If Feasible, May Be Considered to Avoid or Minimize Significant Adverse Impacts to Tribal Cultural Resources:

a. Avoidance and preservation of the resources in place, including, but not limited to:

i. Planning and construction to avoid the resources and protect the cultural and natural context.

ii. Planning greenspace, parks, or other open space, to incorporate the resources with culturally appropriate protection and management criteria.

b. Treating the resource with culturally appropriate dignity, taking into account the tribal cultural values and meaning of the resource, including, but not limited to, the following:

i. Protecting the cultural character and integrity of the resource.

ii. Protecting the traditional use of the resource.

iii. Protecting the confidentiality of the resource.

c. Permanent conservation easements or other interests in real property, with culturally appropriate management criteria for the purposes of preserving or utilizing the resources or places.

d. Protecting the resource. (Pub. Resource Code §21084.3 (b)).

e. Please note that a federally recognized California Native American tribe or a non-federally recognized California Native American tribe that is on the contact list maintained by the NAHC to protect a California prehistoric, archaeological, cultural, spiritual, or ceremonial place may acquire and hold conservation easements if the conservation easement is voluntarily conveyed. (Civ. Code §815.3 (c)).

f. Please note that it is the policy of the state that Native American remains and associated grave artifacts shall be repatriated. (Pub. Resources Code §5097.991).

11. Prerequisites for Certifying an Environmental Impact Report or Adopting a Mitigated Negative Declaration or Negative Declaration with a Significant Impact on an Identified Tribal Cultural Resource: An Environmental Impact Report may not be certified, nor may a mitigated negative declaration or a negative declaration be adopted unless one of the following occurs:

a. The consultation process between the tribes and the lead agency has occurred as provided in Public Resources Code §21080.3.1 and §21080.3.2 and concluded pursuant to Public Resources Code §21080.3.2.

b. The tribe that requested consultation failed to provide comments to the lead agency or otherwise failed to engage in the consultation process.

c. The lead agency provided notice of the project to the tribe in compliance with Public Resources Code §21080.3.1 (d) and the tribe failed to request consultation within 30 days. (Pub. Resources Code §21082.3 (d)).

The NAHC's PowerPoint presentation titled, "Tribal Consultation Under AB 52: Requirements and Best Practices" may be found online at: http://nahc.ca.gov/wp-content/uploads/2015/10/AB52TribalConsultation_CalEPAPDF.pdf

SB 18

SB 18 applies to local governments and requires local governments to contact, provide notice to, refer plans to, and consult with tribes prior to the adoption or amendment of a general plan or a specific plan, or the designation of open space. (Gov. Code §65352.3). Local governments should consult the Governor's Office of Planning and Research's "Tribal Consultation Guidelines," which can be found online at: https://www.opr.ca.gov/docs/09_14_05_Updated_Guidelines_922.pdf.

Some of SB 18's provisions include:

1. Tribal Consultation: If a local government considers a proposal to adopt or amend a general plan or a specific plan, or to designate open space it is required to contact the appropriate tribes identified by the NAHC by requesting a "Tribal Consultation List." If a tribe, once contacted, requests consultation the local government must consult with the tribe on the plan proposal. **A tribe has 90 days from the date of receipt of notification to request consultation unless a shorter timeframe has been agreed to by the tribe.** (Gov. Code §65352.3 (a)(2)).

2. No Statutory Time Limit on SB 18 Tribal Consultation. There is no statutory time limit on SB 18 tribal consultation.

3. Confidentiality: Consistent with the guidelines developed and adopted by the Office of Planning and Research pursuant to Gov. Code §65040.2, the city or county shall protect the confidentiality of the information concerning the specific identity, location, character, and use of places, features and objects described in Public Resources Code §5097.9 and §5097.993 that are within the city's or county's jurisdiction. (Gov. Code §65352.3 (b)).

4. Conclusion of SB 18 Tribal Consultation: Consultation should be concluded at the point in which:

- **a.** The parties to the consultation come to a mutual agreement concerning the appropriate measures for preservation or mitigation; or
- **b.** Either the local government or the tribe, acting in good faith and after reasonable effort, concludes that mutual agreement cannot be reached concerning the appropriate measures of preservation or mitigation. (Tribal Consultation Guidelines, Governor's Office of Planning and Research (2005) at p. 18).

Agencies should be aware that neither AB 52 nor SB 18 precludes agencies from initiating tribal consultation with tribes that are traditionally and culturally affiliated with their jurisdictions before the timeframes provided in AB 52 and SB 18. For that reason, we urge you to continue to request Native American Tribal Contact Lists and "Sacred Lands File" searches from the NAHC. The request forms can be found online at: http://nahc.ca.gov/resources/forms/.

NAHC Recommendations for Cultural Resources Assessments

To adequately assess the existence and significance of tribal cultural resources and plan for avoidance, preservation in place, or barring both, mitigation of project-related impacts to tribal cultural resources, the NAHC recommends the following actions:

1. Contact the appropriate regional California Historical Research Information System (CHRIS) Center (https://ohp.parks.ca.gov/?page_id=30331) for an archaeological records search. The records search will determine:

- **a.** If part or all of the APE has been previously surveyed for cultural resources.
- **b.** If any known cultural resources have already been recorded on or adjacent to the APE.
- **c.** If the probability is low, moderate, or high that cultural resources are located in the APE.
- **d.** If a survey is required to determine whether previously unrecorded cultural resources are present.

2. If an archaeological inventory survey is required, the final stage is the preparation of a professional report detailing the findings and recommendations of the records search and field survey.

- **a.** The final report containing site forms, site significance, and mitigation measures should be submitted immediately to the planning department. All information regarding site locations, Native American human remains, and associated funerary objects should be in a separate confidential addendum and not be made available for public disclosure.
- **b.** The final written report should be submitted within 3 months after work has been completed to the appropriate regional CHRIS center.

3. Contact the NAHC for:

a. A Sacred Lands File search. Remember that tribes do not always record their sacred sites in the Sacred Lands File, nor are they required to do so. A Sacred Lands File search is not a substitute for consultation with tribes that are traditionally and culturally affiliated with the geographic area of the project's APE.

b. A Native American Tribal Consultation List of appropriate tribes for consultation concerning the project site and to assist in planning for avoidance, preservation in place, or, failing both, mitigation measures.

4. Remember that the lack of surface evidence of archaeological resources (including tribal cultural resources) does not preclude their subsurface existence.

a. Lead agencies should include in their mitigation and monitoring reporting program plan provisions for the identification and evaluation of inadvertently discovered archaeological resources per Cal. Code Regs., tit. 14, §15064.5(f) (CEQA Guidelines §15064.5(f)). In areas of identified archaeological sensitivity, a certified archaeologist and a culturally affiliated Native American with knowledge of cultural resources should monitor all ground-disturbing activities.

b. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the disposition of recovered cultural items that are not burial associated in consultation with culturally affiliated Native Americans.

c. Lead agencies should include in their mitigation and monitoring reporting program plans provisions for the treatment and disposition of inadvertently discovered Native American human remains. Health and Safety Code §7050.5, Public Resources Code §5097.98, and Cal. Code Regs., tit. 14, §15064.5, subdivisions (d) and (e) (CEQA Guidelines §15064.5, subds. (d) and (e)) address the processes to be followed in the event of an inadvertent discovery of any Native American human remains and associated grave goods in a location other than a dedicated cemetery.

If you have any questions or need additional information, please contact me at my email address: Cameron.Vela@nahc.ca.gov.

Sincerely,

Cameron Vela

Cameron Vela
Cultural Resources Analyst

cc: State Clearinghouse

APPENDIX E

GEOTECHNICAL REPORTS

APPENDIX E1

PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT & ORGANIC SOIL/MANURE EVALUATION REPORT

Converse Consultants
Geotechnical Engineering
Environmental & Groundwater Science
Inspection & Testing Services

PRELIMINARY GEOTECHNICAL INVESTIGATION REPORT & ORGANIC SOIL/MANURE EVALUATION REPORT

EUCLID MIXED USE SPECIFIC PLAN PROJECT

Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernadino County, California

CONVERSE PROJECT NO. 21-81-154-02



Prepared For:

EUCLID LAND INVESTMENTS
C/O RCCD, INC.
8101 E. Kaiser Boulevard, Suite 140
Anaheim Hills, California 92808

Presented By:

CONVERSE CONSULTANTS
2021 Rancho Drive, Suite 1
Redlands, CA 92373
909-796-0544

March 30, 2022

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

March 30, 2022

Mr. Jason Lee
Vice President
Euclid Land Investments
c/o RCCD, Inc.
8101 E. Kaiser Boulevard, Suite 140
Anaheim Hills, California 92808

Subject: **PRELIMINARY GEOTECHNICAL INVESTIGATION AND ORGANIC SOIL/MANURE EVALUATION REPORT**
Euclid Mixed Use Specific Plan Project
Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernardino County, California
Converse Project No. 21-81-154-00 (02)

Dear Mr. Lee:

Converse Consultants (Converse) is pleased to submit this Preliminary Geotechnical Investigation and Organic Soil/Manure Evaluation Report to assist with the proposed Euclid Mixed Use Specific Plan business park development located at the southeast corner of Euclid Avenue and Schaefer Avenue, in the City of Ontario, San Bernardino County, California. This report was prepared in accordance with our proposal dated January 4, 2021 and your approval of our proposal dated January 5, 2022.

Based upon our field investigation, laboratory data, and analyses, the project site is considered feasible from a geotechnical standpoint, provided the recommendations presented in this report are incorporated into the design and development of the project.

We appreciate the opportunity to be of service to Euclid Land Investments. Should you have any questions, please do not hesitate to contact us at 909-796-0544.

CONVERSE CONSULTANTS

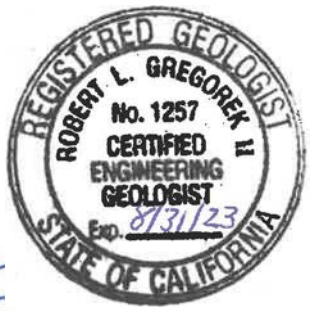
Hashmi S. E. Quazi, PhD, GE, PE
Principal Engineer

Dist.: 1/Addressee (e-mail)
HSQ/RLG/CN/kvg

PROFESSIONAL CERTIFICATION

This report has been prepared by the individuals whose seals and signatures appear herein.

The findings, recommendations, specifications, or professional opinions contained in this report were prepared in accordance with generally accepted professional engineering, engineering geologic principles, and practice in this area of Southern California. There is no warranty, either expressed or implied.



Catherine Nelson, GIT
Senior Staff Geologist

Robert Gregorek, PG, CEG
Senior Geologist



Hashmi S. E. Quazi, PhD, PE, GE
Principal Engineer

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APPENDICES

Appendix A ..... *Field Exploration*
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1.0 INTRODUCTION

This preliminary geotechnical investigation, organic soil/manure evaluation prepared by Converse for the 59.6-acre L-shaped shaped active dairy and agricultural site located at the southeast corner of Euclid Avenue and Schaefer Avenue, in the City of Ontario, San Bernardino County, California. The approximate location of the proposed project is shown in Figure No. 1, *Approximate Project Location Map.*

The purpose of this investigation was to evaluate the current nature and engineering properties of the subsurface soils and groundwater conditions and to provide geotechnical recommendations for the proposed residential development.

This report was prepared for the project described herein and is intended for use solely by Euclid Land Investments and their authorized agents. This report may be made available to the prospective bidders for bidding purposes. However, the bidders are responsible for their own interpretation of the site conditions between and beyond the boring locations, based on factual data contained in this report. This report may not contain sufficient information for use by others and/or other purposes.

2.0 PREVIOUS SITE INVESTIGATIONS

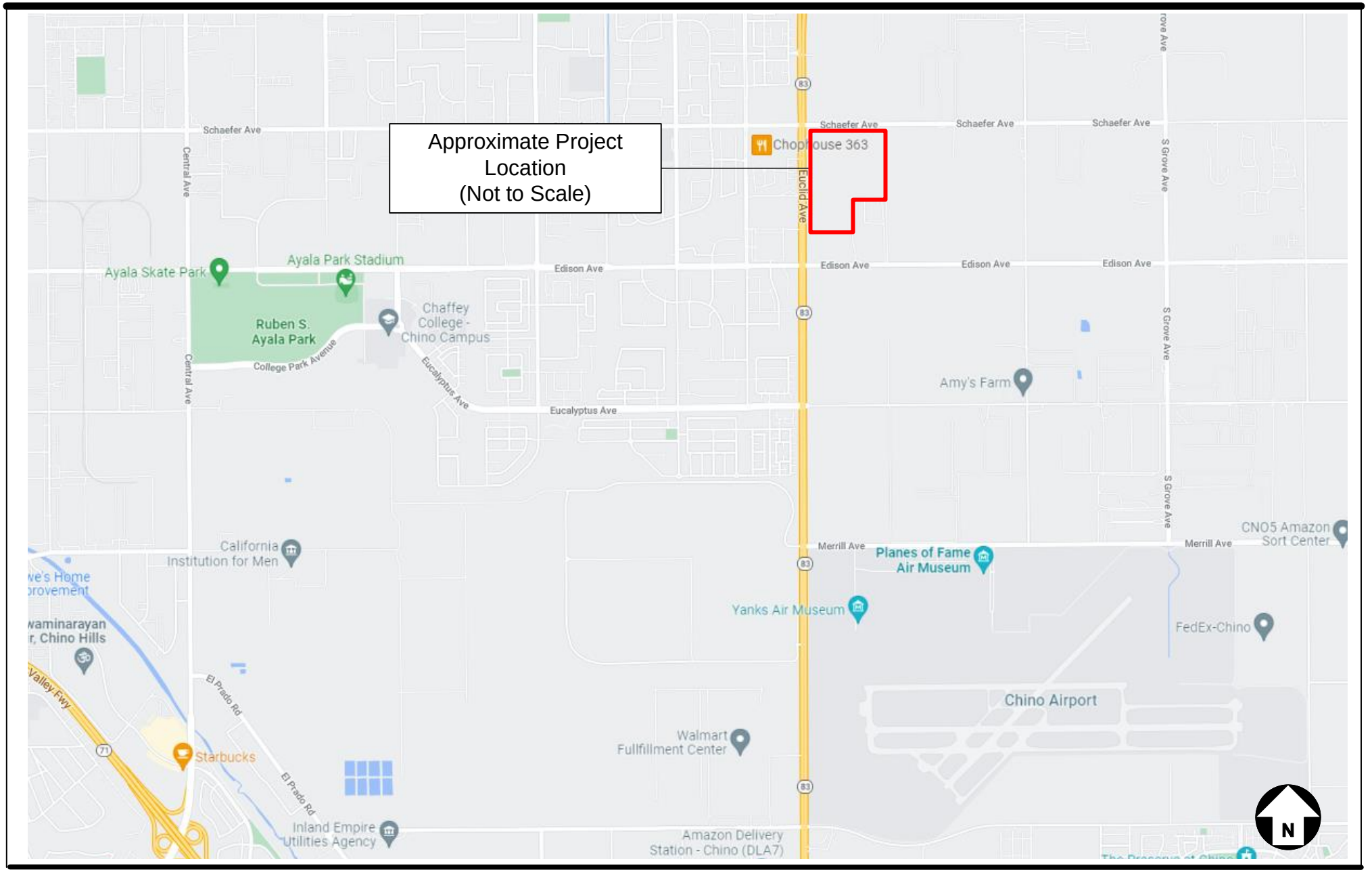
The referenced geotechnical evaluation of a soil stockpile at the subject site was performed Converse Consultants in 2021, with the data incorporated into this report. To the best of our knowledge no other previous geotechnical investigations or reports were prepared for the development of the site at this time.

3.0 SITE DESCRIPTION AND BACKGROUND

The 59.6-acre L-shaped shaped active dairy and agricultural site is located at the southeast corner of Euclid Avenue and Schaefer Avenue, in the City of Ontario, San Bernardino County, California. The property is bounded to the north by Schaefer Avenue, to the west by Euclid Avenue, to the south and east by existing active and abandoned dairies.

The site slopes gently from the northeast to the southwest and south. Drainage appears to flow south and southwest. Site elevations range from approximately 730 feet above mean sea level (msl) in the northeast portion of the site to approximately 690 feet above msl in the southwest portion of the site.

The present site conditions are depicted in Photographs Nos. 1 through 5.



Project: Euclid Mixed Use Specific Plan Project
Location: Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernadino County, California

For: Euclid Land Investments c/o RCCD Inc.

Approximate Project Location Map

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Figure No.
1



Photograph No. 1: Current site conditions, facing northeast.



Photograph No. 2: Current site conditions, facing southeast.



Photograph No. 3: Current site conditions, facing southwest.



Photograph No. 4: Current site conditions at large southeastern berm, facing southeast.



Photograph No. 5: Current site conditions at stockpile in western cow pens, facing north.

4.0 PROJECT DESCRIPTION

Based on conversations with Mr. Jason Lee of Euclid Land Investments the property will be developed for business park use. No development or grading plans are available, at this time. However, grading is anticipated to have cuts and fills of up to 5 feet to 10 feet or less. The structures will likely be one to two-story tilt up buildings founded on shallow footings with slab-on-grade with concrete wall, steel and possible block wall construction. Associated with the development will likely be above and below ground utilities, access roads, and interior streets.

5.0 SCOPE OF WORK

The scope of Converse's investigation is described in the following sections.

5.1 Project Set-up

The project set-up consisted of the following tasks.

- Review of existing plans, reports, and data relevant to the project.
- Conducted a site reconnaissance to mark the exploration locations and to verify drill rig/backhoe access to the proposed locations were available.
- Notified Underground Service Alert (USA) at least 48 hours prior to conducting field work to clear the exploration locations of any conflict with existing underground utilities.

- Engaged a drill rig company to conduct exploratory borings and a backhoe company to excavate exploratory test pits.

5.2 Subsurface Exploration

Six exploratory borings (BH-01 through BH-06) were drilled using a truck-mounted CME 75 drill rig equipped with 8-inch diameter hollow-stem augers to investigate the subsurface conditions on January 20, 2022. The borings were drilled to depths ranging from 16.5 feet to 51.5 feet below the existing ground surface (bgs).

Thirteen exploratory test pits (TP-01 through TP-13) were excavated using a backhoe equipped with 24-inch-wide bucket to investigate the subsurface conditions on January 21 and 24, 2022. The test pits were excavated between 4.0 feet and 11.5 feet below the existing ground surface (bgs).

In addition, 8 exploratory test pits (TP-01 through TP-8) were previously excavated using a backhoe equipped with 24-inch-wide bucket to solely investigate the subsurface conditions of a soil stockpile on July 28, 2021, and obtain samples for organic content, expansion potential and corrosivity tests. The test pits were excavated from approximately 9.0 feet to 12.0 feet below the existing ground surface (bgs). Detailed logs of these previous test pits were not performed except for documenting the type of soil and the depth of fill soils.

The approximate locations of the current exploratory borings and test pits are shown on Figure No. 2, *Approximate Boring, Test Pit, and Overexcavation Locations Map*. A detailed discussion of the subsurface exploration is presented in Appendix A, *Field Exploration*.

5.3 Laboratory Testing

Representative samples of the site soils were tested in the laboratory to aid in soil classification, and to evaluate relevant engineering properties. These tests included the following.

- *In-situ* moisture contents and dry densities (ASTM D2216 and D2937)
- Organic Content (ASTM D2974, Methods A and C)
- Expansion Index (ASTM D4829)
- R-value (California Test 301)
- Soils Corrosivity (CTM 643, 422, 417, 532)
- Collapse (ASTM D5333)
- Grain size analysis (ASTM D6913)
- Maximum dry density and optimum-moisture content (ASTM D1557)
- Direct shear (ASTM D3080)
- Consolidation (ASTM D2435)

For *in-situ* moisture and dry density data, see the logs of boring in Appendix A, *Field Exploration*. For a description of the laboratory test methods and test results, see Appendix B, *Laboratory Testing Program*.

5.4 Analysis and Report Preparation

Data obtained from the field exploration and laboratory testing program was assembled and evaluated. Geotechnical analyses of the compiled data were performed, followed by the preparation of this report to present our findings, conclusions, and recommendations for the project.

6.0 SITE CONDITIONS

A general description of the subsurface conditions, various materials and groundwater conditions encountered at the site during our field exploration is discussed below.

6.1 Subsurface Profile

Based on our field exploration and laboratory test results, the subsurface soil at the project site consisted primarily of manure, organic artificial fill soil, topsoil, alluvium and older alluvium.

The various subsurface profiles and description of the earth material soils encountered are discussed below.

Manure/Highly Organic Soil: The site is partially covered by generally approximately 0.3 foot to 6.0 feet and locally, within the fill berm within the central eastern portion of the site, as much as 16.0 feet to 23.0 feet of manure or highly organic soils due to the site being on an active dairy farm. This manure and highly organic soils will need to be removed from the site prior to any developing. The approximate locations and depth of this material is shown on Figure No. 2, *Approximate Boring, Test Pit, and Overexcavation Locations Map*.

Organic Artificial Fill Soil: Due of the current dairy and agricultural use the surface of the majority of the project site is generally partially covered by up to approximately 0.9 foot to 10.0 feet of partially organic artificial fill soil. The average depth is approximately 5.0 feet. This material was encountered within some of the exploratory excavations and was generally comprised of silty sand, which was fine to coarse-grained, with trace to few gravel to 1.5-inches maximum dimension with occasional scattered cobbles to 10-inches maximum dimension, trace clay, some desiccation, some localized debris, some roots and rootlets, contained trace to few organics, medium dense to dense, moist and various shades of brown and orange. However, in the fill stockpile area within the central portion of the site these artificial fill soils were generally comprised of a mixture of silty sand, clayey sand, sandy silt and sandy clay and silty clay, which were fine to

coarse-grained, with trace to few organics/manure, loose to medium dense, moist to wet and various shades of brown, yellow, gray and black. In addition, the fill stockpile approximate locations and depths of this material is shown on Figure No. 2, *Approximate Boring, Test Pit, and Overexcavation Locations Map*.

Topsoil: Topsoil was encountered at the surface or below the artificial fill within some of the exploratory excavations at depths ranging from approximately 4.0 feet to 8.0 feet bgs. This material was generally comprised of silty sand and sandy silt, which was fine to coarse-grained, with scattered gravel to 1-inch maximum dimension, trace clay, slightly to very desiccated, trace to few organics, some roots and rootlets, medium dense/stiff, moist and various shades of brown, yellow, gray and green. Based on exploratory excavations the topsoil ranged from up to about 2.0 feet to 5.0 feet thick

Alluvium: Holocene alluvium was encountered below the artificial fill and topsoil in the majority of the exploratory excavations at depths ranging from approximately 0.9 feet to 7.5 feet bgs. Where observed, this material was generally comprised of sand, silty sand, clayey sand, sandy silt and some sandy clay, which was fine to medium-grained, with trace gravel to 1-inch maximum dimension, slightly to very desiccated, some oxidation staining, some pinhole pores, locally micaceous, medium dense to very dense/medium stiff to very stiff, moist and various shades of brown, orange, green and gray. Based on some of the exploratory borings the alluvium ranged from up to about 6.0 feet to 16.5 feet thick. Portions of the upper 0.5 foot to 2.0 feet are low in density.

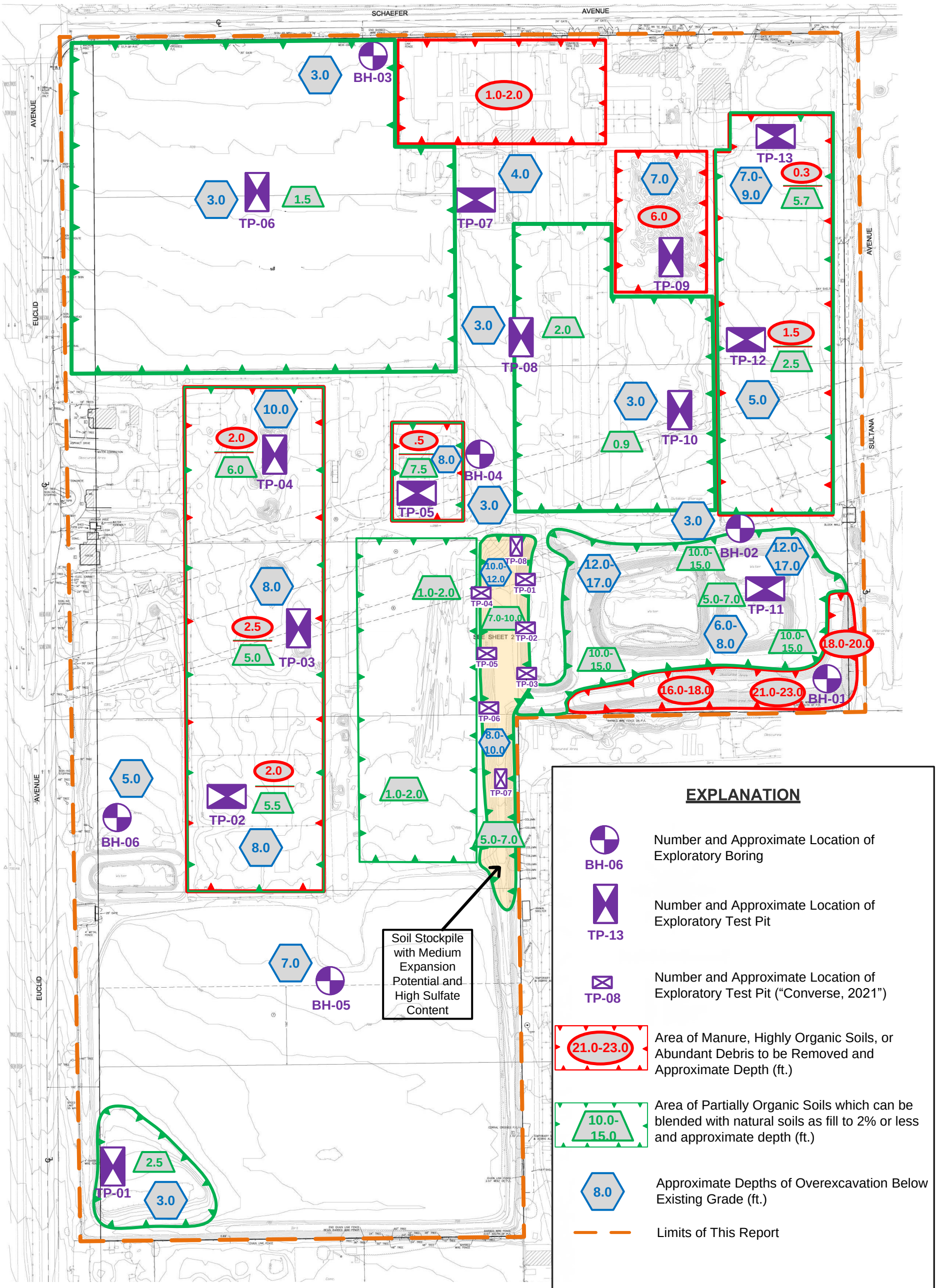
Older Alluvium: Early Holocene to late Pleistocene older alluvium was encountered at depths ranging from approximately 11.0 feet to 15.0 feet bgs. Where observed, this material was generally comprised of sand, silty sand and sandy clay, which was fine to coarse-grained, with trace to few gravel to 1-inch maximum dimension, slightly to very desiccated, moderate oxidation staining, medium dense to very dense/medium stiff to stiff and various shades of brown, orange, and red.

For a detailed description of the subsurface materials encountered in the exploratory borings and test pits, see the logs, Drawing Nos. A-2 through A-20*,* in Appendix A, *Field Exploration.*

6.2 Groundwater

Groundwater was not encountered during our field investigation explored of 51.5 feet.

For comparison, regional groundwater data from the GeoTracker database (SWRCB, 2021) was reviewed to evaluate the current and historical groundwater levels. No site with groundwater data was identified within a 1.0-mile radius of the project site.



Project: Euclid Mixed Use Specific Plan Project

Location: Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernardino County, California

For: Euclid Land Investments c/o RCCD, Inc.

Approximate Boring, Test Pit, and Overexcavation Locations Map

Project No.
21-81-154-02

Converse Consultants

Figure No.
2

The National Water Information System (USGS, 2021) was reviewed for current and historical groundwater data from sites within an approximately 1.0-mile radius of the project site and no groundwater data was identified.

The California Department of Water Resources database (DWR, 2021) was reviewed for historical groundwater data from sites within a 1.0-mile radius of the project site. One site was identified within a 1.0-mile radius of the project site that contained groundwater elevation data. Details of that record are listed below.

- Well Name CHINO-1208672 (Station 340045N1176407W001), located approximately 1,650 feet east of the Project site, reported groundwater at depths ranging from 137.01 to 145.74 feet bgs between 2011 and 2021.

Based on the available data and the findings of our investigation, the historical high groundwater level and the current groundwater level is estimated to be deeper than 137 feet bgs. Groundwater is not expected to be encountered during construction of the proposed project. It should be noted that the groundwater level could vary depending upon the seasonal precipitation and possible groundwater pumping activity in each site vicinity. Perched water layers at depth may be present locally, particularly following high precipitation and irrigation events.

6.3 Expansive Soils

Expansive soils are characterized by their ability to undergo significant volume changes (shrink or swell) due to variations in moisture content. Changes in soil moisture content can result from precipitation, landscape irrigation, utility leakage, roof drainage, perched groundwater, drought, or other factors and may result in unacceptable settlement or heave of structures or concrete slabs supported on grade. Depending on the extent and location below finish subgrade, expansive soils can have a detrimental effect on structures.

Based on the 2 current laboratory tests conducted during this investigation and the 2 previous laboratory tests conducted during our previous geotechnical evaluation of the 9 feet to 10-foot-high soil stockpile, in the central portion of the site. The expansion index of the upper 5.0 feet to 9.0 feet of the general site soils was 0 to 4, corresponding to a very low potential and of the stockpiled soils was 53 to 79 corresponding to a medium expansion potential. The estimated location of the medium expansion potential soils is indicated on Figure No. 2, *Approximate Boring, Test Pit and Overexcavation Locations Map*.

6.4 Collapse Potential

Soil deposits subjected to collapse/hydro-consolidation generally exist in regions of moisture deficiency. Collapsible soils are generally defined as soils that have potential

to suddenly decrease in volume upon increase in moisture content even without an increase in external loads. Moreover, some soils may have a different degree of collapse/hydro-consolidation based on the amount of proposed fill or structure loads. Soils susceptible to collapse/ hydro-consolidation include wind-blown silt, weakly cemented sand, and silt where the cementing agent is soluble (e.g., soluble gypsum, halite), alluvial or colluvial deposits within semi-arid to arid climate, and certain weathered bedrock above the groundwater table.

Granular soils may have a potential to collapse upon wetting in arid climate regions. Collapse/hydro-consolidation may occur when the soluble cements (carbonates) in the soil matrix dissolve, causing the soil to densify from its loose/low density configuration from deposition.

The degree of collapse of a soil can be defined by the collapse potential value, which is expressed as a percent of collapse of the total sample using the Collapse Potential Test (ASTM D4546). According to the ASTM guideline, the severity of collapse potential is commonly evaluated by the following Table No. 1, *Collapse Potential Values*.

Table No. 1, Collapse Potential Values

Collapse Potential Value (%)	Severity of Problem
0	None
0.1 to 2	Slight
2.1 to 6.0	Moderate
6.0 to 10.0	Moderately Severe
>10	Severe

Two collapse tests were conducted for this project. Based on the laboratory test result a collapse potential of 0.1 percent at a depth of 3.0 feet bgs in boring BH-03 was measured. A collapse potential of 0.2 percent at a depth of 2.5 feet bgs in boring BH-04 was measured. Two consolidation tests were conducted for this project. A collapse potential of 0.1 percent at a depth of 5.0 feet bgs in boring BH-02 was measured. No collapse potential at a depth of 8.0 feet bgs in boring BH-08 was measured. These indicate only a slight problem at the site. Collapse potential distress is typically considered a concern when collapse potential is over 2% (LA County, 2013).

6.5 Excavatability

The subsurface materials of the project are expected to be excavatable by conventional heavy-duty earth moving and trenching equipment.

The phrase “conventional heavy-duty excavation equipment” is intended to include commonly used equipment such as excavators, scrapers, and trenching machines. It does not include hydraulic hammers (“breakers”), jackhammers, blasting, or other

specialized equipment and techniques used to excavate hard earth materials. Selection of an appropriate excavation equipment models should be done by an experienced earthwork contractor.

6.6 Subsurface Variations

Based on results of the subsurface exploration and our experience, some variations in the continuity and nature of subsurface soil conditions within the project site should be anticipated. Because of the uncertainties involved in the nature and depositional characteristics of the earth material, care should be exercised in interpolating or extrapolating subsurface conditions between or beyond the boring locations.

6.7 Caving

Caving was not encountered in any of the exploratory borings or test pits. Localized caving may occur in excavations that extend into granular soils that are encountered on-site.

7.0 ENGINEERING GEOLOGY

The regional and local geology within the proposed project area is discussed below.

7.1 Regional Geology

The project site is located within the northern Peninsular Ranges Geomorphic Province of Southern California. The Peninsular Ranges Geomorphic Province consists of a series of northwest-trending mountain ranges and valleys bounded on the north by the San Bernardino and San Gabriel Mountains, on the west by the Los Angeles Basin, and on the south by the Pacific Ocean.

The province is a seismically active region characterized by a series of northwest-trending strike-slip faults. The most prominent of the nearby fault zones include the San Jacinto, Cucamonga, and San Andreas Fault Zones, all of which have been known to be active during Quaternary time.

Topography within the province is generally characterized by broad alluvial valleys separated by linear mountain ranges. This northwest-trending linear fabric is created by the regional faulting within the granitic basement rock of the Southern California Batholith. Broad, linear, alluvial valleys have been formed by erosion of these principally granitic mountain ranges.

The project site is located within the Chino Basin between the Chino Hills to the southwest and San Gabriel Basin to the north. The Elsinore Fault Zone is located approximately four miles south of the project site. This fault is a north to northwest

trending reverse fault that dips steeply towards the southwest. The Chino-Central Avenue Fault acts as a groundwater barrier along the western margin of the Chino Basin.

7.2 Local Geology

The project site is primarily underlain by Young alluvial-fan deposits, (Middle Holocene), consisting of slightly to moderately consolidated silt, sand, and coarse-grained sand to alluvial-fan deposits with boulders, having slightly to moderately dissected surfaces.

8.0 FAULTING AND SEISMICITY

The location of the site with respect to active faults and associated seismicity is discussed below.

8.1 Faulting

The project site is situated in a seismically active region. As is the case for most areas of Southern California, ground-shaking resulting from earthquakes associated with nearby and more distant faults may occur at the project site. During the life of the project, seismic activity associated with active faults can be expected to generate moderate to strong ground shaking at the site. Review of recent seismological and geophysical publications indicates that the seismic hazard for the project is high.

The project site is not located within a currently mapped State of California or San Bernadino County Earthquake Fault Zone for surface fault rupture.

Table No. 2, *Summary of Regional Faults,* summarizes selected data of known faults capable of seismic activity within 100 kilometers of the proposed pump station (coordinate 34.0018N and 117.6480W). The data presented below was calculated using the National Seismic Hazard Maps Database and other published geologic data.

Table No. 2, Summary of Regional Faults

Fault Name and Section	Closest Distance (km)	Slip Sense	Length (km)	Slip Rate (mm/year)	Maximum Magnitude
Chino, alt 2	6.6	strike slip	29	1	6.80
Chino, alt 1	6.81	strike slip	24	1	6.70
San Jose	12	strike slip	20	0.5	6.70
Cucamonga	15.55	thrust	28	5	6.70
Elsinore	15.56	strike slip	241	n/a	7.85
Sierra Madre Connected	15.96	reverse	76	2	7.30
Sierra Madre	15.96	reverse	57	2	7.20
Puente Hills (Coyote Hills)	23.41	thrust	17	0.7	6.90

Fault Name and Section	Closest Distance (km)	Slip Sense	Length (km)	Slip Rate (mm/year)	Maximum Magnitude
San Jacinto	29.77	strike slip	241	n/a	7.88
Clamshell-Sawpit	32.18	reverse	16	0.5	6.70
S. San Andreas	34.77	strike slip	512	n/a	8.18
Puente Hills (Santa Fe Springs)	35.15	thrust	11	0.7	6.70
Raymond	36.36	strike slip	22	1.5	6.80
Cleghorn	38.24	strike slip	25	3	6.80
San Joaquin Hills	38.42	thrust	27	0.5	7.10
Elysian Park (Upper)	42.46	reverse	20	1.3	6.70
Puente Hills (LA)	44.4	thrust	22	0.7	7.00
Newport Inglewood Connected alt 2	48.22	strike slip	208	1.3	7.50
Newport Inglewood Connected alt 1	48.41	strike slip	208	1.3	7.50
Newport-Inglewood, alt 1	48.41	strike slip	65	1	7.20
Verdugo	48.91	reverse	29	0.5	6.90
North Frontal (West)	49.38	reverse	50	1	7.20
Newport-Inglewood (Offshore)	51.85	strike slip	66	1.5	7.00
Hollywood	55.38	strike slip	17	1	6.70
Santa Monica Connected alt 2	60	strike slip	93	2.4	7.40
Palos Verdes	62.85	strike slip	99	3	7.30
Palos Verdes Connected	62.85	strike slip	285	3	7.70
Sierra Madre (San Fernando)	67.18	thrust	18	2	6.70
San Gabriel	68.09	strike slip	71	1	7.30
Santa Monica, alt 1	71	strike slip	14	1	6.60
Santa Monica Connected alt 1	71	strike slip	79	2.6	7.30
Northridge	75.56	thrust	33	1.5	6.90
Helendale-So Lockhart	80.16	strike slip	114	0.6	7.40
Malibu Coast, alt 1	81.15	strike slip	38	0.3	6.70
Malibu Coast, alt 2	81.15	strike slip	38	0.3	7.00
Anacapa-Dume, alt 2	83.62	thrust	65	3	7.20
Coronado Bank	83.89	strike slip	186	3	7.40
Pinto Mtn	85.79	strike slip	74	2.5	7.30
Santa Susana, alt 1	86.02	reverse	27	5	6.90
North Frontal (East)	86.51	thrust	27	0.5	7.00
Holser, alt 1	94.98	reverse	20	0.4	6.80
Anacapa-Dume, alt 1	96.85	thrust	51	3	7.20
Rose Canyon	99.69	strike slip	70	1.5	6.90

(Source: https://earthquake.usgs.gov/cfusion/hazfaults_2008_search/)

8.2 Seismic Design Parameters

Seismic parameters based on the 2019 California Building Code (CBSC, 2019) and ASCE 7-16 are provided in the following table. These parameters were determined using the coordinate (33.9265N and 117.6052W) and the Seismic Design Maps ATC online tool.

Table No. 3, CBC Seismic Design Parameters

Seismic Parameters	
Site Coordinates	34.0018N and 117.6480W
Site Class	D*
Risk Category	II
Mapped Short period (0.2-sec) Spectral Response Acceleration, S_s	1.621g
Mapped 1-second Spectral Response Acceleration, S_1	0.582g
Site Coefficient (from Table 11.4-1), F_a	1.000
Site Coefficient (from Table 11.4-2), F_v	1.718
MCE 0.2-sec period Spectral Response Acceleration, S_{MS}	1.621g
MCE 1-second period Spectral Response Acceleration, SM_1	0.999g
Design Spectral Response Acceleration for short period S_{DS}	1.081g
Design Spectral Response Acceleration for 1-second period, S_{D1}	0.666g
Site Modified Maximum Peak Ground Acceleration, PGA_M	0.735g

** Stiff Soil Classification*

8.3 Secondary Effects of Seismic Activity

In general, secondary effects of seismic activity include surface fault rupture, soil liquefaction, landslides, lateral spreading, and settlement due to seismic shaking, tsunamis, seiches, and earthquake-induced flooding. The site-specific potential for each of these seismic hazards is discussed in the following sections.

Surface Fault Rupture: No portion of the project site is located within a currently designated State of California or San Bernadino County Earthquake Fault Zone (CGS, 2007and San Bernadino County, 2021). The potential for surface rupture resulting from the movement of nearby or distant faults is not known with certainty but is considered very low.

Liquefaction: Liquefaction is defined as the phenomenon in which a cohesionless soil mass within the upper 50 feet of the ground surface suffers a substantial reduction in its shear strength, due the improvement of excess pore pressures. During earthquakes,

excess pore pressures in saturated soil deposits may develop as a result of induced cyclic shear stresses, resulting in liquefaction.

Soil liquefaction generally occurs in submerged granular soils and non-plastic silts during or after strong ground shaking. There are several general requirements for liquefaction to occur and they are as follows.

- Soils must be submerged.
- Soils must be loose to medium-dense.
- Ground motion must be intense.
- Duration of shaking must be sufficient for the soils to lose shear resistance.

Based on review of hazard maps, the site is located within a State of California or San Bernadino County designated zone of liquefaction susceptibility (CGS, 2007; San Bernadino County, (2021). Based groundwater being deeper than approximately 137 feet bgs we estimate that the liquefaction induced settlement of the site is negligible.

Seismic Settlement: Dynamic dry settlement may occur in loose, granular, unsaturated soils during a large seismic event. Based on dense soil conditions, site-specific boring logs, soil types, soil conditions and blow counts, dry seismic settlement is expected to be minimal.

Landslides: Seismically induced landslides and slope failures are common occurrences during or soon after large earthquakes. Due to the flat nature of the project site, the potential for seismically induced landslides affecting the pump station is considered to be very low.

Lateral Spreading: Seismically induced lateral spreading involves primarily lateral movement of earth materials over underlying materials which are liquefied due to ground shaking. It differs from the slope failure in that complete ground failure involving large movement does not occur due to the relatively smaller gradient of the initial ground surface. Lateral spreading is demonstrated by near-vertical cracks with predominantly horizontal movement of the soil mass involved. Generally due to the negligible risk for liquefaction and flat nature of project site, the risk of lateral spreading is considered low.

Tsunamis: Tsunamis are large waves generated in open bodies of water by fault displacement or major ground movement. Due to the inland location of the project site, tsunamis are not considered to be a risk.

Seiches: Seiches are large waves generated in enclosed bodies of water in response to ground shaking. There are no enclosed bodies of water near the project site, therefore, seiching is not considered to be a risk during construction.

Earthquake-Induced Flooding: Dams or other water-retaining structures may fail as a result of large earthquakes. The project site is not located within a designated dam inundation area (DSOD, 2021).

9.0 LABORATORY TEST RESULTS

Laboratory testing was performed to determine the physical and chemical characteristics and engineering properties of the subsurface soils. Current physical test results are included in Appendix A, *Field Exploration* and Appendix B, *Laboratory Testing Program*. Discussions of the various test results are presented below.

9.1 Physical Testing

- *In-situ* Moisture and Dry Density: *In-situ* dry densities and moisture contents of the site soils were determined in accordance with ASTM Standard D2216 and D2937. Dry densities of the soils in borings BH-02 to BH-06 ranged from 81 to 121 pounds per cubic foot (pcf) with moisture contents of 8 to 34 percent. Dry densities of the manure and highly organic soils in boring BH-01 ranged from 47 to 71 pounds per cubic foot (pcf) with moisture contents of 23 to 97 percent. Results are presented on the Log of Borings and Test Pits in Appendix A, *Field Exploration.*

- Organic Content: Twelve organic content tests were performed during the current geotechnical investigation and eight organic content tests were performed during the previous geotechnical evaluation of the soil stockpile, within the central portion of the site, in accordance with ASTM Standard D2974 on representative bulk soil samples. The amount of organic material present in the organic artificial fill soils ranged from 0.8 to 8.7% and in the undisturbed natural soils ranged from 1.5 to 2.2%

- Expansion Index: Two representative bulk soil samples were tested during the current geotechnical investigation of the general site soils to evaluate the expansion potential in accordance with ASTM Standard D4829. The test results indicated an expansion index of 0 to 4, corresponding to very low expansion potential.

  In addition, two representative bulk soil samples were tested during the previous geotechnical evaluation of the soil stockpile, within the central portion of the site, to evaluate the expansion potential in accordance with ASTM Standard D4829. The test results indicated an expansion index of 53 to 79, corresponding to medium expansion potential.

- R-Value: One representative bulk sample was tested in accordance with Caltrans Test Method 301. The result of the R-value test was 65.

- Collapse Potential: Two representative samples were tested to determine the collapse potential in accordance with the ASTM Standard D4596. The test results of 0.1 and 0.2 percent, corresponds to a slight collapse potential.

- Grain Size Analysis: Three representative samples were tested to determine the relative grain size distribution in accordance with the ASTM Standard D6913. Test results are graphically presented in Drawing No. B-1, *Grain Size Distribution Results.* Based on the test results, soils are typically silty sand and sandy silt.

- Maximum Dry Density and Optimum Moisture Content: Two typical moisture-density relationships of representative soil samples were tested, in accordance with ASTM Standard D1557, with the results presented in Drawing No. B-2, *Moisture-Density Relationship Results*, in Appendix B, *Laboratory Testing Program.* The laboratory maximum dry densities were 117.0 and 120.2 pounds per cubic feet (pcf), with optimum moisture contents of 13.7 and 10.3 percent, respectively.

- Direct Shear: Two direct shear tests were performed in accordance with ASTM Standard D3080. One test was performed on relatively undisturbed samples and one test was performed on a sample remolded to 90 percent of the maximum dry density under soaked moisture condition in accordance with ASTM Standard D3080. The results of the direct shear tests are presented in Drawing Nos. B-3 through B-4, *Direct Shear Test Results* in Appendix B, *Laboratory Testing Program*.

- Consolidation Test – Two consolidation tests were performed on relatively undisturbed samples of the site soil, in accordance with ASTM Standard D2435. The test results are shown on Drawing No. B-5 and B-6, *Consolidation Test Results,* in Appendix B, *Laboratory Testing Program.*

9.2 Chemical Testing - Corrosivity Evaluation

One representative soil sample was tested during the current geotechnical investigation and four representative soil samples were tested during the previous geotechnical evaluation of the soil stockpile, within the central portion of the site, to determine minimum electrical resistivity, pH, and chemical content, including soluble sulfate and chloride concentrations. The purpose of these tests was to determine the corrosion potential of site soils when placed in contact with common pipe materials. The tests were performed by AP Engineering and Testing, Inc. (Pomona, CA) in accordance with California Test Methods 643, 422, and 417. The current and previous test results are presented in Appendix B, *Laboratory Testing Program and* are summarized in below.

- The pH measurements of the samples tested ranged from 8.1 to 8.7.

- The sulfate contents of the samples tested ranged from 43 ppm to 3,872 ppm (0.043 percent to 0.3872 percent by weight), respectively.
- The chloride concentrations of the samples tested ranged from 25 ppm to 227 ppm.
- The minimum electrical resistivities when saturated ranged from 300 ohm-cm and 1,703 ohm-cm.

10.0 EARTHWORK AND SITE GRADING RECOMMENDATIONS

Earthwork for the project will include grading, trench excavation, pipe subgrade preparation, pipeline bedding placement and trench backfill, as well as roadway pavement construction. Recommendations for earthwork are presented in the following subsections. General Earthwork Specifications are presented in Appendix C*, Earthwork Specifications.*

10.1 General

This section contains our general recommendations regarding earthwork for the proposed mixed use business park development of Euclid Mixed Use Specific Plan in the City of Ontario, San Bernardino County, California.

These recommendations are based on the results of our field exploration and laboratory testing as well as our experience with similar projects, and data evaluation as presented in the preceding sections. These recommendations may require modification by the geotechnical consultant based on observation of the actual field conditions during remedial grading.

Prior to the start of construction, all underground existing utilities and appurtenances should be located at the project site. Such utilities should either be protected in-place or removed and replaced during construction as required by the project specifications. All excavations should be conducted in such a manner as not to cause loss of bearing and/or lateral support of existing structures or utilities.

All existing structures, debris, deleterious material and surficial soils containing roots and perishable materials should be stripped and removed from the project site. Deleterious material, including manure, significant organics, highly organic disturbed fill soils, concrete, and debris generated during excavation, should not be placed as fill.

It should be the responsibility of the contractor to maintain safe working conditions during all phases of construction.

10.2 Private Sewage System Abandonment

From a geotechnical standpoint, any seepage pits, other private sewage systems, and/or other subsurface structures that may be encountered should be located, mapped on the grading plans, removed and/or properly abandoned. Abandonment and/or removal of septic systems that may exist should be in accordance with local codes and recommendations by Converse. Seepage pits, if abandoned in-place, should be pumped clean, backfilled with gravel or clean sand jetted into place, and then capped with a minimum of 2 feet of a 2-sack or greater slurry or concrete for a minimum distance of 2 feet outside the edge of the seepage pit. The top of the slurry or concrete cap should be at a minimum 10 feet below proposed grade.

10.3 Overexcavation

The site is generally underlain by approximately 3.0 to 9.0 feet of potentially compressible soils (artificial fill, topsoil and the upper low-density portions of the alluvium), and locally as much as 10.0 feet to 17.0 feet in fill stockpile areas, which may be prone to future settlement under the surcharge of foundation, improvements and/or fill loads. Therefore, these materials should be over-excavated to competent alluvium, within all areas of proposed structures and other improvements, and replaced with compacted fill soils. Within the entire level portions of the building pad areas, over-excavations should also extend at least 5.0 feet below proposed pad grade, or at least 3.0 feet below the lowest proposed footings, within the proposed building areas, whichever is deeper. Within any proposed wall footings areas over-excavation should also be a minimum of 5.0 feet below proposed pad grade or 2.0 feet below the proposed wall footings areas, whichever is deeper. All over-excavations should extend at least 5.0 feet or equal to the depth of over-excavation, whichever is greater, outside the entire level portions of the building pad area.

The final bottom surfaces of all excavations should be observed and approved by the project geotechnical consultant prior to placing any fill or structures. However, localized, deeper over-excavation could be encountered, based on findings in subsurface explorations and testing by the geotechnical consultant during grading of the final bottom surfaces of all excavations.

The estimated locations and approximate depths of over-excavation of unsuitable, compressible soil materials are indicated on Figure No. 2, *Approximate Boring, Test Pit and Overexcavation Locations Map*.

If isolated pockets of very soft, loose, eroded, or pumping soil are encountered, the unstable soil should be excavated as needed to expose undisturbed, firm, and unyielding soils.

The contractor should determine the best manner to conduct the excavations, such that there are no losses of bearing and/or lateral support to the existing structures or utilities (if any).

Areas to receive fill and/or other surface improvements should be scarified to a minimum depth of 6 inches, brought to a near-optimum moisture condition, and recompacted to at least 90 percent relative compaction (based on ASTM Test Method D1557).

10.4 Cut and Shallow Fill Under Building Pad Areas

Fill building pads with shallow cut and fill areas should be capped with a minimum of 5.0 feet of engineered structural fill, so that all footings for structures and walls are founded into engineered fill with a minimum of 3.0 feet of fill below footings for proposed structures and 2.0 feet below footings for proposed walls. Over-excavation should extend to the entire level portions of the building pad area with proposed structures or walls, to the depth of fill.

10.5 Cut/Fill Transition and Fill Differentials

To mitigate distress to structures related to the potential adverse effects of excessive differential settlement, cut/fill transitions should be eliminated from all level portions of the building pad areas. This should be accomplished by overexcavating the entire “cut” portion of the building pad area by at least 5.0 feet below proposed grade and replacing the excavated materials as properly compacted fill, so that all footings for structures and walls are founded into engineered fill with a minimum of 3.0 feet of fill below footings for proposed structures and 2.0 feet below footings for proposed walls. Recommended depths of over-excavation are provided in the following table.

Table No. 4, Overexcavation Depth for Cut/Fill Transitions

Depth of Fill (“Fill” Portion)	Depth of Overexcavation (“Cut” Portion)
Up to 5.0 feet	5.0 feet
Greater than 5.0 feet	One-third the maximum thickness of fill placed on the “fill” portion (15 feet maximum)

10.6 Engineered Fill

No fill should be placed until excavations and/or natural ground preparation have been observed by the geotechnical consultant. The native soils encountered within the project sites are generally considered suitable for re-use as compacted fill. Excavated soils should be processed, including removal of roots and debris, removal of oversized particles, mixing, and moisture conditioning, before placing as compacted fill. On-sites soils used as fill should meet the following criteria.

- No particles larger than 8 inches in largest dimension.
- Rocks larger than 4 inches should not be placed within the upper 12 inches of subgrade soils.
- Free of all significant organic matter, debris, or other deleterious material.
- Expansion index of 50 or less.
- Sand Equivalent greater than 15 (greater than 30 for pipe bedding).
- Contain less than 30 percent by weight retained in 3/4-inch sieve.
- Contain less than 40 percent fines (passing #200 sieve).

Based on field investigation and laboratory testing results, on-sites soils may be suitable as fill materials.

Imported materials, if required, should meet the above criteria prior to being used as compacted fill. Any imported fills should be tested and approved by geotechnical representative at least 72 hours prior to delivery to the site.

10.7 Organic Content

Based on the laboratory test results of the approximately the upper 0.9 foot to 10.0 feet of the partially organic fill soils on portions of the site has about 0.8 percent to 8.7 percent of organic content. This would be an average organic content of about 4.8 percent, for an average depth of approximately 5.0 feet, in the subject areas. Laboratory testing also indicated that generally the undisturbed natural soils below these depths (alluvium) had natural organic contents of about 1.5 percent to 2.1 percent. Therefore, these partially organic should be blended with undisturbed natural soils or removed from the site.

Fill materials should contain no more than 2 percent overall organics. The partially organic soils can be blended with the on-site natural soils at a ratio of at least 3 to 1 (natural soils/clean imported soils to partially organic soils) and placed as compacted fill, provided they are completely mixed during fill placement. The type of equipment and method of placement; blending and mixing of the partially organic materials with onsite natural soils or clean imported soils to be utilized by the grading contractor, should be reviewed and accepted by the geotechnical consultant prior to implementation. A possible method of placement that could be considered would be to place the partially organic materials at an angle to the pattern of the placement of the onsite natural soils or clean imported soils. The testing frequency for verifying the percent organic content should be established by the geotechnical consultant prior to fill placement once the method of blending, placement, and mixing of the partially organic materials with onsite natural soils or clean imported soils. The estimated locations and approximate depths of partially organic to be removed from the site or blended are also indicated on Figure No. 2, *Approximate Boring, Test Pit and Overexcavation Locations Map*.

10.8 Compacted Fill Placement

All surfaces to receive structural fills should be scarified to a depth of 12 inches. The soil should be moisture conditioned to within ±3 percent of optimum moisture content for coarse soils and 0 to 2 percent above optimum moisture content for fine soils. The scarified soils should be recompacted to at least 90 percent of the laboratory maximum dry density.

Fill soils should be thoroughly mixed, and moisture conditioned to within ±3 percent of optimum moisture content for coarse soils and 0 to 2 percent above optimum moisture content for fine soils. Fill soils should be evenly spread in horizontal lifts not exceeding 8 inches in uncompacted thickness.

Fill soils should be thoroughly mixed, and moisture conditioned to at least 0 to 2 percent above optimum moisture content. Fill soils should be evenly spread in horizontal lifts not exceeding 8 inches in uncompacted thickness.

All fill placed at the site should be compacted to at least 90 percent of the laboratory maximum dry density as determined by ASTM Standard D1557 test method unless a higher compaction is specified herein. The upper 12 inches of subgrade soils underneath pavements intended to support vehicle loads should be scarified, moisture conditioned, and compacted to at least 95 percent of the laboratory maximum dry density.

Fill materials should not be placed, spread or compacted during unfavorable weather conditions. When site grading is interrupted by heavy rain, filling operations should not resume until the geotechnical consultant approves the moisture and density conditions of the previously placed fill.

Observations and field tests should be performed by the project soils consultant to confirm that the required degree of compaction has been obtained. Where compaction is less than that specified, additional compactive effort should be made with adjustment of the moisture content as necessary, until the specified compaction is obtained.

Additional expansion index and corrosion testing should be completed after all fill has been placed and compacted at the site in order to confirm the soil properties and revise the foundation design parameters if necessary.

10.9 Backfill Recommendations Behind Walls

Compaction of backfill adjacent to retaining walls, which may be proposed, can produce excessive lateral pressures. Improper types and locations of compaction equipment and/or compaction techniques may damage the walls. The use of heavy compaction equipment should not be permitted within a horizontal distance of 5 feet from the wall.

Backfill behind any structural walls within the recommended 5-foot zone should be compacted using lightweight construction equipment such as handheld compactors to avoid overstressing the walls.

10.10 Shrinkage and Subsidence

The volume of excavated and recompacted soils will decrease as a result of grading. The shrinkage would depend on, among other factors, the depth of cut and/or fill, and the grading method and equipment utilized. Based on our exploration as well as previous experience in the other projects in close vicinity of this site, for the preliminary estimation, shrinkage factors for various units of earth material at the site may be taken as presented below.

- The shrinkage factor (defined as a percentage of soil volume reduction when moisture conditioned and compacted to the average of 92 percent relative compaction) for the upper 15 feet of soils is estimated to range from approximately 0 to 14 percent. An average value of 6 percent to 10 percent may be used for preliminary earthwork planning.
- Subsidence (defined as the settlement of native materials from the equipment load applied during grading and proposed fill loads) would depend on the construction methods including type of equipment utilized. Ground subsidence is estimated to be approximately 0.20 foot to 0.25 foot.

Although these values are only approximate, they represent our best estimates of the factors to be used to calculate lost volume that may occur during grading. If more accurate shrinkage and subsidence factors are needed, it is recommended that field-testing using the actual equipment and grading techniques be conducted.

10.11 Site Drainage

Adequate positive drainage should be provided away from the structures and excavation areas to prevent ponding and to reduce percolation of water into the foundation soils. A desirable drainage gradient is 1 percent for paved areas and 2 percent in landscaped areas. Surface drainage should be directed to suitable non-erosive devices.

10.12 Utility Trench Backfill

The following sections present earthwork recommendations for utility trench backfill, including subgrade preparation and trench zone backfill.

Open cuts adjacent to existing roadways or structures are not recommended within a 1:1 (horizontal: vertical) plane extending down and away from the roadway or structure perimeter (if any).

Soils from the trench excavation should not be stockpiled more than 6 feet in height or within a horizontal distance from the trench edge equal to the depth of the trench. Soils should not be stockpiled behind the shoring, if any, within a horizontal distance equal to the depth of the trench, unless the shoring has been designed for such loads.

10.12.1 Pipeline Subgrade Preparation

The final subgrade surface should be level, firm, uniform, and free of loose materials and properly graded to provide uniform bearing and support to the entire section of the pipe placed on bedding material. Protruding oversize particles larger than 2 inches in dimension, if any, should be removed from the trench bottom and replaced with compacted on-site materials.

Any loose, soft and/or unsuitable materials encountered at the pipe subgrade should be removed and replaced with an adequate bedding material. During the digging of depressions for proper sealing of the pipe joints, the pipe should rest on a prepared bottom for as near its full length as is practicable.

10.12.2 Pipe Bedding

Bedding is defined as the material supporting and surrounding the pipe to 1 foot above the pipe. Recommendations for pipe bedding are provided below.

To provide uniform and firm support for the pipe, compacted granular materials such as clean sand, gravel or ¾-inch crushed aggregate, or crushed rock may be used as pipe bedding material. Typically, soils with sand equivalent value of 30 or more are used as pipe bedding material. The pipe designer should determine if the soils are suitable as pipe bedding material.

The type and thickness of the granular bedding placed underneath and around the pipe, if any, should be selected by the pipe designer. The load on the rigid pipes and deflection of flexible pipes and, hence, the pipe design, depends on the type and the amount of bedding placed underneath and around the pipe.

Bedding materials should be vibrated in-place to achieve compaction. Care should be taken to densify the bedding material below the spring line of the pipe. Prior to placing the pipe bedding material, the pipe subgrade should be uniform and properly graded to provide uniform bearing and support to the entire section of the pipe placed on bedding material. During the digging of depressions for proper sealing of the pipe joints, the pipe should rest on a prepared bottom for as near its full length as is practicable.

Based on the design groundwater depth, migration of fines from the surrounding native and/or fill soils may not be considered in selecting the gradation of any imported bedding material.

10.12.3 Trench Zone Backfill

The trench zone is defined as the portion of the trench above the pipe bedding extending up to the final grade level of the trench surface. Excavated sites soil free of oversize particles and deleterious matter may be used to backfill the trench zone. Detailed trench backfill recommendations are provided below.

- Trench excavations to receive backfill should be free of trash, debris or other unsatisfactory materials at the time of backfill placement.
- Trench zone backfill should be compacted to at least 90 percent of the laboratory maximum dry density as per ASTM D1557 test method. At least the upper 1 foot of trench backfill underlying pavement should be compacted to at least 95 percent of the laboratory maximum dry density as per ASTM D1557 test method.
- Particles larger than 1 inch should not be placed within 12 inches of the pavement subgrade. No more than 30 percent of the backfill volume should be larger than ¾-inch in the largest dimension. Gravel should be well mixed with finer soil. Rocks larger than 3 inches in the largest dimension should not be placed as trench backfill.
- Trench backfill should be compacted by mechanical methods, such as sheepsfoot, vibrating or pneumatic rollers or mechanical tampers to achieve the density specified herein. The backfill materials should be brought to within ± 3 percent of optimum moisture content for coarse-grained soil, and between optimum and 2 percent above optimum for fine-grained soil, then placed in horizontal layers. The thickness of uncompacted layers should not exceed 8 inches. Each layer should be evenly spread, moistened or dried as necessary, and then tamped or rolled until the specified density has been achieved.
- The contractor should select the equipment and processes to be used to achieve the specified density without damage to adjacent ground, structures, utilities and completed work.
- It should be the responsibility of the contractor to maintain safe working conditions during all phases of construction.
- The field density of the compacted soil should be measured by the ASTM D1556 (Sand Cone) or ASTM D6938 (Nuclear Gauge) or equivalent.
- Trench backfill should not be placed, spread or rolled during unfavorable weather conditions. When the work is interrupted by heavy rain, fill operations should not resume until field tests by the project's geotechnical consultant indicate that the moisture content and density of the fill are in compliance with project specifications.

11.0 DESIGN RECOMMENDATIONS

Design recommendations for the structures are provided in the following section.

11.1 General Evaluation

The various design recommendations provided in this section are based on the laboratory testing as well as the assumption that in preparing the site, the earthwork recommendations provided in this report will be implemented.

11.2 Preliminary Shallow Foundation Design Parameters

The proposed one- and two-story concrete tilt up buildings and possible retaining walls may be supported on continuous or isolated spread footings founded completely within in competent compacted fill. The design of the shallow foundations should be based on the recommended parameters presented in the table below.

Table No. 5, Recommended Foundation Parameters

Parameter	1-Story Value	2-Story Value
Minimum continuous width (interior and exterior)	12 inches	15 inches
Minimum continuous or isolated footing depth of embedment below lowest adjacent grade (interior and exterior)	15 inches	18 inches
Allowable net bearing capacity	3,000 psf	3,300 psf

Isolated interior and exterior footings should be at least 24 inches wide. The footing dimensions and reinforcement should be based on structural design. The allowable bearing capacity can be increased by 500 pounds per square foot (psf) with each foot of additional embedment and 100 psf with each foot of additional width up to a maximum of 4,000 psf.

The net allowable bearing values indicated above are for the dead loads and frequently applied live loads and are obtained by applying a factor of safety of 3.0 to the net ultimate bearing capacity. If normal code requirements are applied for design, the above vertical bearing value may be increased by 33 percent for short duration loadings, which will include loadings induced by wind or seismic forces.

11.3 Lateral Earth Pressures and Resistance to Lateral Loads

In the following subsections, the lateral earth pressures and resistance to lateral loads are estimated by using on-site native soils strength parameters obtained from laboratory testing.

11.3.1 Active Earth Pressures

The active earth pressure behind any buried walls or foundation depends primarily on the allowable wall movement, type of backfill materials, backfill slopes, wall or

foundation inclination, surcharges, and any hydrostatic pressures. The lateral earth pressures for the project site are presented in the following table.

Table No. 6, Active and At-Rest Earth Pressures

Loading Conditions	Lateral Earth Pressure[1] (psf)	Lateral Earth Pressure[2] (psf)
	Level backfill	2:1 backfill
Active earth conditions (wall is free to deflect at least 0.001 radian)	40	60
At-rest (wall is restrained)	60	110

These pressures assume no surcharge and no hydrostatic pressure. If water pressure is allowed to build up behind the structure, the active pressures should be reduced by 50 percent and added to a full hydrostatic pressure to compute the design pressures against the structure.

11.3.2 Passive Earth Pressure

Resistance to lateral loads can be assumed to be provided by a combination of friction acting at the base of foundations and by passive earth pressure. A coefficient of friction of 0.35 between formed concrete and soil may be used with the dead load forces. An allowable passive earth pressure of 250 psf per foot of depth may be used for the sides of footings poured against recompacted soils. A factor of safety of 1.5 was applied in calculating passive earth pressure. The maximum value of the passive earth pressure should be limited to 2,500 psf for compacted fill.

Vertical and lateral bearing values indicated above are for the total dead loads and frequently applied live loads. If normal code requirements are applied for design, the above vertical bearing and lateral resistance values may be increased by 33 percent for short duration loading, which will include the effect of wind or seismic forces.

Due to the low overburden stress of the soil at shallow depth, the upper 1 foot of passive resistance should be neglected unless the soil is confined by pavement or slab.

11.4 Retaining Walls Drainage

The recommended lateral earth pressure values do not include lateral pressures due to hydrostatic forces. Therefore, wall backfill should be free draining and provisions should be made to collect and dispose of excess water that may accumulate behind earth retaining structures. Behind wall drainage may be provided by free-draining gravel surrounded by synthetic filter fabric or by prefabricated, synthetic drain panels or weep holes. In either case, drainage should be collected by perforated pipes and directed to a sump, storm drain, or other suitable location for disposal. We recommend drain rock

should consist of durable stone having 100 percent passing the 1-inch sieve and less than 5 percent passing the No. 4 sieve. Synthetic filter fabric should have an equivalent opening size (EOS), U.S. Standard Sieve, of between 40 and 70, a minimum flow rate of 110 gallons per minute per square foot of fabric, and a minimum puncture strength of 110 pounds.

11.5 Slabs-on-Grade

Slabs-on-grade should be supported on properly compacted fill. Compacted fill used to support slabs-on-grade should be placed and compacted in accordance with Section 10.8 *Compacted Fill Placement*.

Slabs should be designed and constructed as promulgated by the American Concrete Institute (ACI) and the Portland Cement Association (PCA). Care should be taken during concrete placement to avoid slab curling. Prior to the slab pour, all utility trenches should be properly backfilled and compacted.

Concrete floors should be underlain with a moisture-vapor retarder consisting of a 10-mil thick vapor barrier. Laps within the membrane should be sealed and overlapped at least 6 inches. Two (2) inches or more of clean sand should be placed above and below the membrane. These recommendations must be confirmed (and/or modified) by the foundation engineer with our concurrence, based upon the performance expectations of the foundation. It is the responsibility of the contractor to ensure that the moisture/vapor barrier systems are placed in accordance with the project plans and specifications, and that the moisture/vapor retarder materials are free of tears and punctures prior to concrete placement. Additional moisture reduction and/or prevention measures may be needed, depending on the performance requirements of future interior floor coverings.

In hot weather, the contractor should take appropriate curing precautions after placement of concrete to minimize cracking or curling of the slabs. The potential for slab cracking may be lessened by the addition of fiber mesh to the concrete and/or control of the water/cement ratio (maximum 0.45).

Concrete should be cured by protecting it against loss of moisture and rapid temperature change for at least 7 days after placement. Moist curing, waterproof paper, white polyethylene sheeting, white liquid membrane compound, or a combination thereof may be used after finishing operations have been completed. The edges of concrete slabs exposed after removal of forms should be immediately protected to provide continuous curing.

11.6 Expansion Potential

Based on the results of the expansion testing of representative site soils, the general on-site soils have an expansion index of 0 to 4 for an expansion potential of **Very Low**, however based on the laboratory test results portions of the subject stockpiled fill soil

materials, in the central portion of the site exhibited have expansion index of 53 to 79 for an expansion potential of **Medium**, in accordance with 2019 CBC. Based on experience in the area the majority of soils on the site are anticipated to be sandier and exhibit expansion potentials of **Very Low** to possibly **Low**. Therefore, consideration should be made to place these stockpiled fill soils in deeper fills (at least 5 feet below proposed grade), landscape areas or non-structural fills or blended with sandier soils on site, outside of the subject fill stockpile, to reduce the expansion potential, of the stockpiled soils. The estimated location of the medium expansion potential soils is indicated on Figure No. 2, *Approximate Boring, Test Pit and Overexcavation Locations Map*.

The expansion indices of the final finish-grade soils will vary from the results obtained during our current and previous investigations. The expansion potential of the finish-grade soils should be tested at the completion of grading.

11.6.1 Very Low Expansion Potential

The following are additional recommendations where foundation soils exhibit **Very Low** expansion potential (E.I. of 0 to 20) as classified in accordance with 2019 CBC.

Slabs-on-grade should have a minimum thickness of 5 inches for support of nominal live loads and reinforced with No. 3 bars spaced 24 inches or less on-centers, both ways. Slab reinforcement should be supported on concrete chairs so that the desired placement is properly placed per the design engineer. Structural design elements of slabs-on-grade, including but not limited to thickness, reinforcement, joint spacing of more heavily loaded slabs will be dependent upon the anticipated loading conditions and the modulus of subgrade reaction (200 kcf) of the supporting materials and should be designed by a structural engineer.

Subgrade for slabs-on-grade should be firm and uniform. All loose or disturbed soils including under-slab utility trench backfill should be recompacted. Prior to placing concrete, the subgrade soils below all floor slabs should be pre-watered to achieve a moisture content that is equal to 100% of the optimum moisture content of the subgrade soils. The moisture content should penetrate to a minimum depth of 12 inches. This should promote uniform curing of the concrete and minimize the development of shrinkage cracks.

11.6.2 Low Expansion Potential

The following are additional recommendations where foundation soils exhibit **Low** expansion potential (E.I. of 21 to 50) as classified in accordance with 2019 CBC.

Slabs-on-grade should have a minimum thickness of 5 inches for support of nominal live loads and reinforced with No. 3 bars spaced 18 inches or less on-centers, both ways. Slab reinforcement should be supported on concrete chairs so that the desired

placement is properly placed per the design engineer. Structural design elements of slabs-on-grade, including but not limited to thickness, reinforcement, joint spacing of more heavily loaded slabs will be dependent upon the anticipated loading conditions and the modulus of subgrade reaction (200 kcf) of the supporting materials and should be designed by a structural engineer.

Subgrade for slabs-on-grade should be firm and uniform. All loose or disturbed soils including under-slab utility trench backfill should be recompacted. Prior to placing concrete, the subgrade soils below all floor slabs should be pre-watered to achieve a moisture content that is equal to 110% of the optimum moisture content of the subgrade soils. The moisture content should penetrate to a minimum depth of 12 inches. This should promote uniform curing of the concrete and minimize the development of shrinkage cracks.

11.7 Settlement

The total settlement of shallow footings, designed as recommended above, from static structural loads and short-term settlement of properly compacted fill is anticipated to be 0.5 inch or less. The static differential settlement can be taken as equal to one-half of the static total settlement over a lateral distance of 40 feet.

11.8 Pipe Design for Underground Utilities

Structural design of pipes requires proper evaluation of all possible loads acting on pipes. The stresses and strains induced on buried pipes depend on many factors, including the type of soil, density, bearing pressure, angle of internal friction, coefficient of passive earth pressure, and coefficient of friction at the interface between the backfill and native soils. The recommended values of the various soil parameters for the pipe design are provided in Table No. 7, *Soil Parameters for Pipe Design*.

Where pipes are connecting to rigid structures near, or at its lower levels, and then are subjected to significant loads as the backfill is placed to finish grade, we recommend that provisions be incorporated in the design to provide support of these pipes where they exit the structure. Consideration can be given to flexible connections, concrete slurry support beneath the pipes where they exit the structures, overlaying and supporting the pipes with a few inches of compressible material, (i.e., Styrofoam, or other materials), or other techniques. Automatic shutoffs should be installed to limit the potential leakage from seismic event related damage.

Table No. 7, Soil Parameters for Pipe Design

Soil Parameters	Parameters
Total unit weight of compacted backfill (assuming 92% average relative compaction), γ	122 pcf

Soil Parameters	Parameters
Angle of internal friction of soils, ϕ	31º
Soil cohesion, c	195 psf
Coefficient of friction between concrete and native soils, fs	0.35
Coefficient of friction between pipe and native soils, fs	0.25 for metal or HDPE pipe 0.30 for CML&C pipe
Bearing pressure against Compacted Fill or Natural Soils	3,000 psf
Coefficient of passive earth pressure, Kp	3.12
Coefficient of active earth pressure, Ka	0.32
Modulus of Soil Reaction, E'	1,500 psi

11.9 Soil Corrosivity

The results of chemical testing of representative site soils with respect to common construction materials such as concrete and steel are presented in Appendix B, *Laboratory Testing Program*, and a general discussion are presented below.

The sulfate contents of the sampled *of the general site soils* correspond to American Concrete Institute (ACI) exposure category S0 for these sulfate concentrations (ACI 318-14, Table 19.3.1.1). No concrete type restrictions are specified for exposure category S0 (ACI 318-14, Table 19.3.2.1). A minimum compressive strength of 2,500 psi is recommended.

However, the sulfate content of *the soil stockpile, within the central portion of the site*, tested correspond to American Concrete Institute (ACI) exposure category S2 for this sulfate concentration (ACI 318-14, Table 19.3.1.1). ACI recommends a minimum compressive strength of 4,500 psi for exposure category S2 in ACI 318-14, Table 19.3.2.1. A minimum compressive strength of 4,500 psi is recommended. A maximum water cement ratio of 0.40 is recommended. Cementitious materials should be Type V. of the stockpiled soils was 53 to 79 corresponding to a medium expansion potential. Therefore, consideration should be made to place these stockpiled fill soils in deeper fills (at least 5 feet below proposed grade), landscape areas or non-structural fills or blended with other soils on site, outside of the subject fill stockpile, to reduce the high sulfate potential, of the stockpiled soils. The estimated location of the high sulfate content soils is indicated on Figure No. 2, *Approximate Boring, Test Pit and Overexcavation Locations Map*.

We anticipate that concrete structures such as footings, slab, and concrete pad will be exposed to moisture from precipitation and irrigation. Based on the site locations and the results of chloride testing of the sites soils, we do not anticipate that concrete structures will be exposed to external sources of chlorides, such as deicing chemicals,

salt, brackish water, or seawater. ACI specifies exposure category C1 where concrete is exposed to moisture, but not to external sources of chlorides (ACI 318-14, Table 19.3.1.1). ACI provides concrete design recommendations in ACI 318-14, Table 19.3.2.1, including a compressive strength of at least 2,500 psi and a maximum chloride content of 0.3 percent.

According to Romanoff, 1957, the following table provides general guideline of soil corrosion based on electrical resistivity.

Table No. 8, Correlation Between Resistivity and Corrosion

Soil Resistivity (ohm-cm) per Caltrans CT 643	Corrosivity Category
Over 10,000	Mildly corrosive
2,000 – 10,000	Moderately corrosive
1,000 – 2,000	corrosive
Less than 1,000	Severe corrosive

The measured value of the minimum electrical resistivities when saturated ranged from 300 Ohm-cm to 1,703 Ohm-cm. This indicates that the soils tested are corrosive to severely corrosive to ferrous metals in contact with the soil (Romanoff, 1957). Metal piping should be corrosion-protected, or consideration should be given to using plastic piping metal. Converse does not practice in the area of corrosion consulting. A qualified corrosion consultant should provide appropriate corrosion mitigation measures for ferrous metals in contact with the site soils.

11.10 Asphalt Concrete Pavement

One soil sample was tested by Converse to determine the R-value of the subgrade soils. Based on laboratory testing, the R-value was 65. For pavement design, we have utilized a maximum design R-value of 50, and City of Ontario designated design Traffic Indices (TIs) ranging from 5.0 to 10.0.

Based on the above information, asphalt concrete and aggregate base thickness results are presented using the Caltrans Highway Design Manual (Caltrans, 2020), Chapter 630 with a safety factor of 0.2 for asphalt concrete/aggregate base section and 0.1 for full depth asphalt concrete section. Preliminary asphalt concrete pavement sections are presented in the following table below. City of Ontario minimum asphalt pavement and aggregate base thickness requirements were also considered in the pavement designs.

Table No. 9, Recommended Preliminary Pavement Sections

R-value	Traffic Index (TI)	Pavement Section		
		Option 1		Option 2
		Asphalt Concrete (inches)	Aggregate Base (inches)	Full AC Section (inches)
50	5.0 (alleys)	4.0	6.0	4.5
	5.5 (interior street)	4.0	6.0	5.0
	8.0 (exterior street)	6.0	8.0	8.0
	10.0 (exterior street)	7.0	8.0	10.0

At or near the completion of grading, subsurface samples should be tested to evaluate the actual subgrade R-value for final pavement design.

Prior to placement of aggregate base, at least the upper 12 inches of finish grade should be scarified, moisture-conditioned if necessary, and recompacted to at least 95 percent of the laboratory maximum dry density as defined by ASTM Standard D1557 test method.

Base materials should conform with Section 200-2.2,"*Crushed Aggregate Base*," of the current Standard Specifications for Public Works Construction (SSPWC; Public Works Standards, 2018) and should be placed in accordance with Section 301.2 of the SSPWC.

Asphaltic concrete materials should conform to Section 203 of the SSPWC and should be placed in accordance with Section 302-5 of the SSPWC.

11.11 Concrete Flatwork

Except as modified herein, concrete walks, driveways, access ramps, curb and gutters should be constructed in accordance with Section 303-5, *Concrete Curbs, Walks, Gutters, Cross-Gutters, Alley Intersections, Access Ramps, and Driveways*, of the Standard Specifications for Public Works Construction (Public Works Standards, 2018).

The subgrade soils under the above-mentioned improvements should consist of compacted fill placed as described in section 10.8 of this report. Prior to placement of concrete, the upper 12 inches of finish grade should be moisture conditioned to within 3 percent of optimum moisture content for coarse-grained soils and 0 and 2 percent above optimum for fine-grained soils.

The thickness of driveways for passenger vehicles should be at least 4 inches, or as required by the civil or structural engineer. Transverse control joints for driveways should be spaced not more than 10 feet apart. Driveways wider than 12 feet should be provided with a longitudinal control joint.

Concrete walks subjected to pedestrian and bicycle loading should be at least 4 inches thick, or as required by the civil or structural engineer. Transverse joints should be spaced 15 feet or less and should be cut to a depth of one-fourth the slab thickness.

Positive drainage should be provided away from all driveways and sidewalks to prevent seepage of surface and/or subsurface water into the concrete base and/or subgrade.

12.0 CONSTRUCTION RECOMMENDATIONS

Temporary sloped excavation recommendations are presented in the following sections.

12.1 General

Prior to the start of construction, all existing underground utilities (if any) should be located at the project site. Such utilities should either be protected in-place or removed and replaced during construction as required by the project specifications.

Vertical braced excavations can be considered for the foundations. Sloped excavations may not be feasible in locations adjacent to existing utilities, pavement, or structure (if any). Recommendations pertaining to temporary excavations are presented in this section.

Excavations near existing structures may require vertical side wall excavation. Where the side of the excavation is a vertical cut, it should be adequately supported by temporary shoring to protect workers and any adjacent structures.

All applicable requirements of the California Construction and General Industry Safety Orders, the Occupational Safety and Health Act, and the Construction Safety Act should be met. The soils exposed in cuts should be observed during excavation by the geotechnical consultant and the competent person designated by the contractor. If potentially unstable soil conditions are encountered, modifications of slope ratios for temporary cuts may be required.

12.2 Temporary Sloped Excavations

Temporary open-cut trenches may be constructed with side slopes as recommended in the following table. Temporary cuts encountering soft and wet fine-grained soils; dry loose, cohesionless soils or loose fill from trench backfill may have to be constructed at a flatter gradient than presented below.

Table No. 10, Slope Ratios for Temporary Excavations

Soil Type	OSHA Soil Type	Depth of Cut (feet)	Recommended Maximum Slope (Horizontal:Vertical)[1]
Silty Sand (SM)	C	0-10	1.5:1

[1] Slope ratio assumed to be uniform from top to toe of slope.

For shallow excavations up to 4 feet bgs can vertical. For steeper temporary construction slopes or deeper excavations, or unstable soil encountered during the excavation, shoring or trench shields should be provided by the contractor to protect the workers in the excavation. Design recommendations for temporary shoring are provided in the following section.

Surfaces exposed in slope excavations should be kept moist but not saturated to retard raveling and sloughing during construction. Adequate provisions should be made to protect the slopes from erosion during periods of rainfall. Surcharge loads, including construction materials, should not be placed within 5 feet of the unsupported slope edge. Stockpiled soils with a height higher than 6 feet will require greater distance from trench edges.

13.0 GEOTECHNICAL SERVICES DURING CONSTRUCTION

The project geotechnical consultant should review plans and specifications as the project design progresses. Such review is necessary to identify design elements, assumptions, or new conditions which require revisions or additions to our geotechnical recommendations.

The project geotechnical consultant should be present to observe conditions during construction. Geotechnical observation and testing should be performed as needed to verify compliance with project specifications. Additional geotechnical recommendations may be required based on subsurface conditions encountered during construction.

14.0 CLOSURE

This report is prepared for the project described herein and is intended for use solely by Euclid Land Investments and their authorized agents, to assist in the development of the proposed project. Our findings and recommendations were obtained in accordance with generally accepted professional principles practiced in geotechnical engineering. We make no other warranty, either expressed or implied.

Converse Consultants is not responsible or liable for any claims or damages associated with interpretation of available information provided to others. Site exploration identifies actual soil conditions only at those points where samples are taken, when they are taken. Data derived through sampling and laboratory testing is extrapolated by Converse employees who render an opinion about the overall soil conditions. Actual conditions in areas not sampled may differ. In the event that changes to the project occur, or additional, relevant information about the project is brought to our attention, the recommendations contained in this report may not be valid unless these changes and additional relevant information are reviewed, and the recommendations of this report are modified or verified in writing. In addition, the recommendations can only be finalized by observing actual subsurface conditions revealed during construction. Converse cannot be held responsible for misinterpretation or changes to our recommendations made by others during construction.

As the project evolves, a continued consultation and construction monitoring by a qualified geotechnical consultant should be considered an extension of geotechnical investigation services performed to date. The geotechnical consultant should review plans and specifications to verify that the recommendations presented herein have been appropriately interpreted, and that the design assumptions used in this report are valid. Where significant design changes occur, Converse may be required to augment or modify the recommendations presented herein. Subsurface conditions may differ in some locations from those encountered in the explorations, and may require additional analyses and, possibly, modified recommendations.

Design recommendations given in this report are based on the assumption that the recommendations contained in this report are implemented. Additional consultation may be prudent to interpret Converse's findings for contractors, or to possibly refine these recommendations based upon the review of the actual site conditions encountered during construction. If the scope of the project changes, if project completion is to be delayed, or if the report is to be used for another purpose, this office should be consulted.

15.0 REFERENCES

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Appendix A

Field Exploration

APPENDIX A

FIELD EXPLORATION

Our field investigation included a site reconnaissance and a subsurface exploration program consisting of drilling exploratory borings and excavating test pits. During the site reconnaissance, the surface conditions were noted, and the test pit and boring locations were marked in the field using the referenced topographic maps and from approximate distances from local streets as a guide and should be considered accurate only to the degree implied by the method used to locate them. Description of the field investigation method is presented below.

Exploratory Borings

Six exploratory borings (BH-01 through BH-06) were drilled on January 20, 2022, within the project site to investigate the subsurface conditions. The borings were drilled to depths ranging from 16.5 to 51.5 feet (bgs).

The borings were advanced using a truck-mounted drill rig equipped with 8-inch diameter hollow-stem augers for soils sampling. Encountered materials were continuously logged by a Converse geologist and classified in the field by visual classification in accordance with the Unified Soil Classification System. Where appropriate, the field descriptions and classifications have been modified to reflect laboratory test results.

Relatively undisturbed samples were obtained using California Modified Samplers (2.4 inches inside diameter and 3.0 inches outside diameter) lined with thin sample rings. The steel ring sampler was driven into the bottom of the borehole with successive drops of a 140-pound driving weight falling 30 inches. Blow counts at each sample interval are presented on the boring logs. Samples were retained in brass rings (2.4 inches inside diameter and 1.0 inch in height) and carefully sealed in waterproof plastic containers for shipment to the Converse laboratory. Representative bulk samples were collected from selected depths and placed in large plastic bags for delivery to our laboratory.

Standard Penetration Testing (SPT) were also performed in borings (BH-04 and BH-05) in accordance with the ASTM Standard D1586 using a standard (1.4 inches inside diameter and 2.0 inches outside diameter) split-barrel sampler. The mechanically driven hammer for the SPT sampler was 140 pounds, falling 30 inches for each blow. The recorded blow counts for every 6 inches for a total of 1.5 feet of sampler penetration are shown on the Logs of Borings.

Following completion of logging and sampling, borings BH-01 through BH-06 were backfilled with excavated soil cuttings and compacted by pushing down with the auger using the weight of the drill rig. If construction is delayed the ground surface at the boring locations may settle over time. We recommend the owner monitor the boring locations

and backfill any depressions that occur or provide protection around the boring locations to prevent trip and fall injuries from occurring.

Test Pits

Thirteen exploratory test pits (TP-01 through TP-13) were excavated using a backhoe equipped with 24-inch-wide bucket to investigate the subsurface conditions on January 21, 2022 and January 24, 2022. The test pits were excavated between 4.0 feet and 11.0 feet below the existing ground surface (bgs).

During exploration, encountered materials were continuously logged by a Converse geologist and classified in the field by visual classification in accordance with the Unified Soil Classification System. Where appropriate, the field descriptions and classifications have been modified to reflect laboratory test results.

Representative bulk samples were collected from selected depths and placed in large plastic bags for delivery to our laboratory.

Test pits were backfilled in lifts with excavated soil, tamped, and then wheel rolled at the surface using the bucket under the weight of the backhoe. If construction is delayed the ground surface at the test pit locations may settle over time. We recommend the owner monitor the test pit locations and backfill any depressions that occur or provide protection around the test pit locations to prevent trip and fall injuries from occurring.

For a key to soil symbols and terminology used in the test pit and boring logs, refer to Drawing Nos. A-1a and A-1b, *Unified Soil Classification and Key to Boring Log and Test Pit Symbols*. For logs of Borings and Test Pits, see Drawings No. A-2 through A-20, *Logs of Borings and Test Pits*.

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE			GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	MORE THAN 50% OF COARSE FRACTION PASSING ON NO. 4 SIEVE			SP	POORLY-GRADED SANDS, GRAVELLY SAND, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS

FIELD AND LABORATORY TESTS

C	Consolidation (ASTM D 2435)
CL	Collapse Potential (ASTM D 4546)
CP	Compaction Curve (ASTM D 1557)
CR	Corrosion, Sulfates, Chlorides (CTM 643-99; 417; 422)
CU	Consolidated Undrained Triaxial (ASTM D 4767)
DS	Direct Shear (ASTM D 3080)
EI	Expansion Index (ASTM D 4829)
M	Moisture Content (ASTM D 2216)
OC	Organic Content (ASTM D 2974)
P	Permeablility (ASTM D 2434)
PA	Particle Size Analysis (ASTM D 6913 [2002])
PI	Liquid Limit, Plastic Limit, Plasticity Index (ASTM D 4318)
PL	Point Load Index (ASTM D 5731)
PM	Pressure Meter
PP	Pocket Penetrometer
R	R-Value (CTM 301)
SE	Sand Equivalent (ASTM D 2419)
SG	Specific Gravity (ASTM D 854)
SW	Swell Potential (ASTM D 4546)
TV	Pocket Torvane
UC	Unconfined Compression - Soil (ASTM D 2166)
	Unconfined Compression - Rock (ASTM D 7012)
UU	Unconsolidated Undrained Triaxial (ASTM D 2850)
UW	Unit Weight (ASTM D 2937)

BORING LOG SYMBOLS

SAMPLE TYPE

- STANDARD PENETRATION TEST — Split barrel sampler in accordance with ASTM D-1586-84 Standard Test Method
- DRIVE SAMPLE 2.42" I.D. sampler (CMS).
- DRIVE SAMPLE No recovery
- BULK SAMPLE
- GROUNDWATER WHILE DRILLING
- GROUNDWATER AFTER DRILLING

DRILLING METHOD SYMBOLS

Auger Drilling | Mud Rotary Drilling | Dynamic Cone or Hand Driven | Diamond Core

UNITED SOIL CLASSIFICATION AND KEY TO BORING LOG SYMBOLS

Converse Consultants

Euclid Mixed Use Specific Plan Project
Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernardino County, California
For: Euclid Land Investments c/o RCCD, Inc.

Project No. **21-81-154-02**

Drawing No. **A-1a**

CONSISTENCY OF COHESIVE SOILS

Descriptor	Unconfined Compressive Strength (tsf)	SPT Blow Counts	Pocket Penetrometer (tsf)	CA Sampler	Torvane (tsf)	Field Approximation
Very Soft	<0.25	< 2	<0.25	<3	<0.12	Easily penetrated several inches by fist
Soft	0.25 - 0.50	2 - 4	0.25 - 0.50	3 - 6	0.12 - 0.25	Easily penetrated several inches by thumb
Medium Stiff	0.50 - 1.0	5 - 8	0.50 - 1.0	7 - 12	0.25 - 0.50	Can be penetrated several inches by thumb with moderate effort
Stiff	1.0 - 2.0	9 - 15	1.0 - 2.0	13 - 25	0.50 - 1.0	Readily indented by thumb but penetrated only with great effort
Very Stiff	2.0 - 4.0	16 - 30	2.0 - 4.0	26 - 50	1.0 - 2.0	Readily indented by thumbnail
Hard	>4.0	>30	>4.0	>50	>2.0	Indented by thumbnail with difficulty

APPARENT DENSITY OF COHESIONLESS SOILS

Descriptor	SPT N_{60}- Value (blows / foot)	CA Sampler
Very Loose	<4	<5
Loose	4- 10	5 - 12
Medium Dense	11 - 30	13 - 35
Dense	31 - 50	36 - 60
Very Dense	>50	>60

MOISTURE

Descriptor	Criteria
Dry	Absence of moisture, dusty, dry to the touch
Moist	Damp but no visible water
Wet	Visible free water, usually soil is below water table

PERCENT OF PROPORTION OF SOILS

Descriptor	Criteria
Trace (fine)/ Scattered (coarse)	Particles are present but estimated to be less than 5%
Few	5 to 10%
Little	15 to 25%
Some	30 to 45%
Mostly	50 to 100%

SOIL PARTICLE SIZE

Descriptor		Size
Boulder		> 12 inches
Cobble		3 to 12 inches
Gravel	Coarse	3/4 inch to 3 inches
	Fine	No. 4 Sieve to 3/4 inch
Sand	Coarse	No. 10 Sieve to No. 4 Sieve
	Medium	No. 40 Sieve to No. 10 Sieve
	Fine	No. 200 Sieve to No. No. 40 Sieve
Silt and Clay		Passing No. 200 Sieve

PLASTICITY OF FINE-GRAINED SOILS

Descriptor	Criteria
Nonplastic	A 1/8-inch thread cannot be rolled at any water content.
Low	The thread can barely be rolled, and the lump cannot be formed when drier than the plastic limit.
Medium	The thread is easy to roll, and not much time is required to reach the plastic limit; it cannot be rerolled after reaching the plastic limit. The lump crumbles when drier than the plastic limit.
High	It takes considerable time rolling and kneading to reach the plastic limit. The thread can be rerolled several times after reaching the plastic limit. The lump can be formed without crumbling when drier than the plastic limit.

CEMENTATION/ Induration

Descriptor	Criteria
Weak	Crumbles or breaks with handling or little finger pressure.
Moderate	Crumbles or breaks with considerable finger pressure.
Strong	Will not crumble or break with finger pressure.

NOTE: This legend sheet provides descriptions and associated criteria for required soil description components only. Refer to Caltrans Soil and Rock Logging, Classification, and Presentation Manual (2010), Section 2, for tables of additional soil description components and discussion of soil description and identification.

UNITED SOIL CLASSIFICATION AND KEY TO BORING LOG SYMBOLS

Converse Consultants

Euclid Mixed Use Specific Plan Project
Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernardino County, California
For: Euclid Land Investments c/o RCCD, Inc.

Project No. **21-81-154-02**

Drawing No. **A-1b**

Log of Boring No. BH-01

Dates Drilled: 1/20/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): 720 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		ARTIFICIAL FILL **SILTY SAND (SM):** fine to medium-grained, mostly manure/organics, grass and rootlets, abundant debris, medium dense, moist, dark brown.	■	▨	4/11/11	80	49	
5			■		4/9/15	23	71	
			■		5/11/14	32	66	
10			■		5/7/14	97	44	
15		- @ 15.0': dense.	■		14/20/17	36	47	
		End of Boring at 16.5 feet bgs. Groundwater not encountered. Boring backfilled with soil cuttings and compacted by pushing down with an auger using the drill rig weight on 01/20/2022.						

Converse Consultants

Euclid Mixed Use Specific Plan Project
Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernadino County, California
For: Euclid Land Investments c/o RCCD, Inc.

Project No. 21-81-154-02

Drawing No. A-2

Log of Boring No. BH-02

Dates Drilled: 1/20/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): 707 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		ALLUVIUM **SILTY SAND (SM):** fine-grained, trace clay, slightly to moderately desiccated, oxidation staining, very dense, moist, greenish to orangish brown.	■		9/28/34	8	102	
5		- @ 5.0': trace caliche, few pinhole porosity, dense	■		15/17/20	18	109	C
		SANDY SILT (ML): fine-grained sand, trace clay, pinhole porosity, moderately to very desiccated, black oxidation spots, very stiff, moist, greenish to orangish brown.	■	▨	7/16/17	16	112	
10		- @10.0': little clay	■	▨	7/13/22	28	94	
15		- @15.0': trace clay	■	▨	16/17/18	15	104	
		End of Boring at 16.5 feet bgs. Groundwater not encountered. Boring backfilled with soil cuttings and compacted by pushing down with an auger using the drill rig weight on 01/20/2022.						

Converse Consultants

Euclid Mixed Use Specific Plan Project
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For: Euclid Land Investments c/o RCCD, Inc.

Project No. 21-81-154-02

Drawing No. A-3

Log of Boring No. BH-03

Dates Drilled: 1/20/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): 718 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		TOPSOIL **SILTY SAND (SM):** fine to coarse-grained, moist, dark brown.						
5		**ALLUVIUM** **SANDY SILT (ML):** fine-grained sand, slightly desiccated, stiff, moist, dark orangish brown.	■	▨	2/5/10	13	110	CL EI, R, CR
		SILTY SAND (SM): fine-grained, trace to little caliche, slightly to moderately desiccated, dense, moist, greenish gray to brown.	■	▨	11/14/20	13	121	
10		**SAND (SP):** fine-grained, trace clay and silt, micaceous, slightly desiccated, oxidation staining, dense, moist, grayish to yellowish brown.	■		13/25/25	6	118	
			■		15/20/21	8	102	
15		**OLDER ALLUVIUM** **SANDY CLAY (CL):** fine-grained sand, slightly desiccated, oxidation spots, stiff, moist, greenish to orangish brown.	■		8/7/8	34	81	
		End of Boring at 16.5 feet bgs. Groundwater not encountered. Boring backfilled with soil cuttings and compacted by pushing down with an auger using the drill rig weight on 01/20/2022.						

Converse Consultants

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Project No. 21-81-154-02

Drawing No. A-4

Log of Boring No. BH-04

Dates Drilled: 1/20/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): 710 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		TOPSOIL **SILTY SAND (SM):** fine to medium-grained, trace gravel up to 1 inch maximum dimension, trace clay, trace organics, slightly desiccated, moist, brown.		■				PA
			■	■	3/6/10	12	113	CL
		ALLUVIUM **SILTY SAND (SM):** fine-grained, trace gravel up to 1 inch maximum dimension, trace clay, slightly desiccated, medium dense, moist, dark orangish brown.						
5			■	■	9/17/20	19	114	DS
		SANDY SILT (ML): fine-grained sand, trace gravel up to 1 inch maximum dimension, trace clay, trace to some caliche, slightly to moderately desiccated, pinhole porosity, oxidation staining, very stiff, moist, greenish gray to orangish brown.	■	■	6/9/11	22	107	
10			■		8/13/15	17	107	
		- @ 7.5': moderately desiccated, stiff, light grayish brown - @ 10.0': black oxidation spots, yellowish to greenish brown						
15		**OLDER ALLUVIUM** **SILTY SAND (SM):** fine-grained, few gravel up to 1 inch maximum dimension, trace clay, slightly desiccated, oxidation staining, very dense, moist, greenish gray to orangish brown.	■		15/37/50	13	124	PA
20		- @ 20.0': fine to coarse-grained, dark orange oxidation, dense, light grayish brown to yellowish brown	⊠		11/14/21			
25		- @ 25.0': moderately to very desiccated, more fines, very dense	■		25/50-6"	9	100	PA
30		**SAND (SP):** fine to coarse-grained, some gravel and cobbles up to 5 inches maximum dimension, trace clay, slightly to moderately desiccated, oxidation staining, dense, moist, orangish grayish brown.	⊠		17/20/27			

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Project No. **21-81-154-02**

Drawing No. **A-5a**

Log of Boring No. BH-04

Dates Drilled: 1/20/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): 710 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		OLDER ALLUVIUM **SAND (SP):** fine to coarse-grained, trace clay, slightly to moderately desiccated, oxidation staining, dense, moist, orangish grayish brown.	■		9/19/28	15	118	
40		**SILTY SAND (SM):** fine to medium-grained, trace clay, trace caliche, slightly desiccated, few black oxidation spots, dense, moist, light grayish brown to brown. - @ 40.0': more clay, medium dense	☒		4/6/8			
45		**SAND (SP):** fine to medium-grained, trace clay and silt, moderately desiccated, friable, dense, yellowish greenish brown.	■		15/20/28	18	113	
50		- @ 50.0': medium dense	☒		5/9/9			
		End of Boring at 51.5 feet bgs. Groundwater not encountered. Boring backfilled with soil cuttings and compacted by pushing down with an auger using the drill rig weight on 01/20/2022.						

Converse Consultants

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Project No. 21-81-154-02

Drawing No. A-5b

Log of Boring No. BH-05

Dates Drilled: 1/20/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): 697 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		ARTIFICIAL FILL **SILTY SAND (SM):** fine to medium-grained, trace clay, pinhole porosity, very desiccated, roots and rootlets, few organics, medium dense, dark brown.	■	▨	7/12/12	8	101	CP, DS
5		**TOPSOIL** **SANDY SILT (ML):** fine-grained sand, trace clay, slightly to moderately desiccated, oxidation staining, stiff, moist, dark orangish brown.	■		6/10/10	16	94	
		ALLUVIUM **SANDY CLAY (CL):** fine-grained sand, very desiccated, trace to little caliche, black oxidation spots, very stiff, moist, greenish grayish brown.	■	▨	7/11/16	18	100	CP
10		- @ 10.0': orangish brown	■	▨	7/12/12	32	96	
		OLDER ALLUVIUM **SAND (SP):** fine to medium-grained, trace clay and silt, slightly desiccated, black oxidation spots, medium dense, moist, greenish to orangish brown.	■		5/8/13	25	103	
15								
20		- @ 20.0': oxidation staining, light greenish brown to orangish brown.	⊠		11/12/16			
25		- @ 25.0': very dense.	■		17/28/38	8	113	
30		**SILTY CLAY (CL):** fine-grained, trace of fine grained sand, slightly desiccated, oxidation spots, medium stiff, moist, grayish greenish brown.	⊠		2/3/7			
		End of Boring at 31.5 feet bgs. Groundwater not encountered. Boring backfilled with soil cuttings and compacted by						

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Drawing No. A-6a

Log of Boring No. BH-05

Dates Drilled: 1/20/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): 697 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		pushing down with an auger using the drill rig weight on 01/20/2022.						

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Drawing No. A-6b

Log of Boring No. BH-06

Dates Drilled: 1/20/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 8" HOLLOW STEM AUGER Driving Weight and Drop: 140 lbs / 30 in

Ground Surface Elevation (ft): 702 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		TOPSOIL **SILTY SAND (SM):** fine to medium-grained, trace clay, slightly desiccated, oxidation spots, medium dense, moist, dark brown.	■	▨	6/6/11	16	108	
5		**ALLUVIUM** **SANDY SILT (ML):** fine-grained, trace clay, pinhole porosity, moderately desiccated, caliche, few oxidation spots, stiff, moist, light grayish brown to greenish brown.	■	▨	6/10/14	21	107	
			■		4/8/12	18	107	C
10		**OLDER ALLUVIUM** **SAND (SP):** fine-grained, trace clay, trace silt, slightly to moderately desiccated, oxidation staining, moist, medium dense, greenish brown to orangish brown.	■		10/11/12	14	119	
15		- @ 15.0': fine to medium-grained, micaceous, dense, light grayish brown	■		16/24/20	12	97	
		End of Boring at 16.5 feet bgs. Groundwater not encountered. Boring backfilled with soil cuttings and compacted by pushing down with an auger using the drill rig weight on 01/20/2022.						

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Project No. 21-81-154-02

Drawing No. A-7

Log of Test Pit No. TP-01

Dates Drilled: 1/21/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 691 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		ARTIFICIAL FILL **SILTY SAND (SM):** fine to coarse-grained, few gravel up to 1.5 inches maximum dimension, trace clay, moderately desiccated, large caliche nodules up to 2 inches maximum dimension, few organics, moist to wet, brown to dark brown.						OC
5		**ALLUVIUM** **SAND (SP):** fine-grained, trace clay, trace silt, slightly desiccated, moist, greenish gray brown.						
		End of test pit at 4.0 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/21/2022.						

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Project No. 21-81-154-02

Drawing No. A-8

Log of Test Pit No. TP-02

Dates Drilled: 1/24/2022 Logged by: Stephen McPherson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 702 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		MANURE **Some Silty Sand,** fine to coarse-grained, moist, dark brown						OC
5		**ARTIFICIAL FILL** **SILTY SAND (SM):** fine to coarse-grained, moderately desiccated, caliche, red oxidation spots, few organics, some debris, moist, brown.						
		ALLUVIUM **CLAYEY SAND (CL):** fine to medium-grained sand, moist, light gray to greenish gray.						
		End of test pit at 8.0 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/24/2022.						

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Project No. 21-81-154-02

Drawing No. A-9

Log of Test Pit No. TP-03

Dates Drilled: 1/24/2022 Logged by: Stephen McPherson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 705 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		MANURE **Some Silty Sand,** fine to coarse-grained, moist, dark brown to black						OC
		ARTIFICIAL FILL **SILTY SAND (SM):** fine to coarse-grained, trace clay, few organics, some debris, moderately desiccated, moist, brown.						
5								
		ALLUVIUM **CLAYEY SAND (CL):** fine to medium-grained, moist, gray to greenish brown.						
10		End of test pit at 8.5 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/24/2022.						

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Drawing No. A-10

Log of Test Pit No. TP-04

Dates Drilled: 1/24/2022 Logged by: Stephen McPherson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 710 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		MANURE **Some Silty Sand,** fine to coarse-grained, moist, dark brown						OC
5		**ARTIFICIAL FILL** **SILTY SAND (SM):** fine to coarse-grained, scattered gravel up to 1 inch maximum dimension, roots and rootlets, few organics, some debris, trace caliche, moderately desiccated, moist, brown.						
10		**TOPSOIL** **SILTY SAND (SM):** fine to medium-grained, trace caliche, moist, black.						
		ALLUVIUM **SAND (SP):** fine-grained, light oxidation staining (red) moist, greenish to orangish brown.						
15		**CLAYEY SAND (CL):** fine to medium-grained sand, pinhole porosity, moderately to very desiccated trace caliche, moist, light grayish brown.						
		End of test pit at 11.5 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/24/2022.						

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Drawing No. A-11

Log of Test Pit No. TP-05

Dates Drilled: 1/24/2022 Logged by: Stephen McPherson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 709 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		MANURE **Some Silty Sand,** fine to coarse-grained, moist, dark brown to black						OC
5		**ARTIFICIAL FILL** **SILTY SAND (SM):** fine to coarse-grained, scattered gravel up to 1 inch maximum diamension, trace organics, some debris, pinhole porosity, oxidation staining (red, black, orange and yellow), moist, orangish brown to brown.						
10		**ALLUVIUM** **SAND (SP):** fine-grained, trace clay and silt, pinhole porosity, slightly to moderately desiccated, oxidation staining (black), moist, greenish to orangish brown.						
		End of test pit at 8.0 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/24/2022.						

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Drawing No. A-12

Log of Test Pit No. TP-06

Dates Drilled: 1/21/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 716 Depth to Water (ft, bgs): NOT ENCOUNTERED

SUMMARY OF SUBSURFACE CONDITIONS

This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.

Depth (ft)	Graphic Log	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
0							OC
5							OC
10							

ARTIFICIAL FILL

SILTY SAND (SM): fine to coarse-grained, trace clay, moderately desiccated, roots and rootlets, trace organics, worms, some debris, moist, brown to dark brown.

ALLUVIUM

SAND (SP): fine-grained, trace clay and silt, slightly desiccated, moist, greenish brown to brown.

SANDY SILT (ML): fine-grained sand, trace clay, trace caliche, moderately to very desiccated, moist, light grayish brown.

End of test pit at 10.0 feet bgs.
Groundwater not encountered.
Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/21/2022.

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Drawing No. A-13

Log of Test Pit No. TP-07

Dates Drilled: 1/24/2022 Logged by: Stephen McPherson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 715 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
5		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						

TOPSOIL

SILTY SAND (SM): fine to coarse-grained, slightly to moderately desiccated, oxidation staining, moist, greenish brown to orangish brown.

@ 1.5': increase in coarse grains, greenish gray to yellowish brown

ALLUVIUM

SAND (SP): fine to medium-grained, trace clay and silt, slightly to moderately desiccated, moist, greenish gray to light brown.

End of test pit at 4.5 feet bgs.
Groundwater not encountered.
Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/24/2022.

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Drawing No. A-14

Log of Test Pit No. TP-08

Dates Drilled: 1/21/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 713 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		ARTIFICIAL FILL **SILTY SAND (SM):** fine to coarse-grained, scattered gravel up to 1 inch maximum dimension, scattered cobbles up to 10 inches maximum dimension, trace clay, trace organics, roots and rootlets, moderately to very desiccated, moist, brown to dark brown.						OC
5		**ALLUVIUM** **SANDY SILT (ML):** fine-grained sand, trace clay and caliche, few pinhole porosity, very desiccated, moist, greenish gray to light brown.						OC
		SAND (SP): fine-grained, slightly desiccated, moist, light grayish brown to orangish brown.						
		End of test pit at 5.0 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/21/2022.						

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Drawing No. A-15

Log of Test Pit No. TP-09

Dates Drilled: 1/24/2022 Logged by: Stephen McPherson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 714 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
5		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		ARTIFICIAL FILL **SILTY SAND (SM):** fine to coarse-grained, scattered gravel up to 1 inch maximum dimension, few roots and rootlets, some organics, abundant debris, moist, brown to dark brown.						
		ALLUVIUM **SAND (SP):** fine-grained, trace silt, pinhole porosity, slightly to moderately desiccated, black oxidation spots, moist, greenish brown to reddish brown.						
		End of test pit at 8.0 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/24/2022.						

Converse Consultants

Euclid Mixed Use Specific Plan Project
Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernadino County, California
For: Euclid Land Investments c/o RCCD, Inc.

Project No. 21-81-154-02

Drawing No. A-16

Log of Test Pit No. TP-10

Dates Drilled: 1/21/2022 Logged by: Catherine Nelson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 710 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		ARTIFICIAL FILL **SILTY SAND (SM):** fine to coarse-grained, few gravel up to 1.5 inches maximum dimension, trace clay, few organics, roots and rootlets, moderately to very desiccated, moist, brown to dark brown.						OC
5		**ALLUVIUM** **SAND (SP):** fine-grained, trace clay and silt, slightly to moderately desiccated, moist, greenish gray to yellowish brown.						EI
10		**SANDY SILT (ML):** fine to coarse-grained sand, trace clay, pinhole porosity, slightly desiccated, moist, light grayish brown.						
		End of test pit at 5.0 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/21/2022.						

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Project No. 21-81-154-02

Drawing No. A-17

Log of Test Pit No. TP-11

Dates Drilled: 1/24/2022 Logged by: Stephen McPherson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 700 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
5		**ARTIFICIAL FILL** **SILTY SAND (SM):** fine to coarse-grained, trace organics, roots and rootlets, some debris up to 8 inches maximum dimension, moderately desiccated, moist with standing water at bottom of the test pit, greenish gray to orangish brown.						OC
		End of test pit at 5.0 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/24/2022.						

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Project No. 21-81-154-02

Drawing No. A-18

Log of Test Pit No. TP-12

Dates Drilled: 1/24/2022 Logged by: Stephen McPherson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 710 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		MANURE **Some Silty Sand,** fine to coarse-grained, moist, brown to dark brown						OC
		ARTIFICIAL FILL **SILTY SAND (SM):** fine to medium-grained, trace organics, very desiccated, moist, grayish brown.						
5		**ALLUVIUM** **SANDY SILT (ML):** fine-grained sand, pinhole porosity, moderately to very desiccated, moist, greenish to yellowish brown.						
		End of test pit at 5.0 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/24/2022.						

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Project No. 21-81-154-02

Drawing No. A-19

Log of Test Pit No. TP-13

Dates Drilled: 1/24/2022 Logged by: Stephen McPherson Checked By: Robert Gregorek

Equipment: 24" WIDE BACKHOE BUCKET Driving Weight and Drop: N/A

Ground Surface Elevation (ft): 717 Depth to Water (ft, bgs): NOT ENCOUNTERED

Depth (ft)	Graphic Log	SUMMARY OF SUBSURFACE CONDITIONS	SAMPLES: DRIVE	SAMPLES: BULK	BLOWS	MOISTURE (%)	DRY UNIT WT. (pcf)	OTHER
		This log is part of the report prepared by Converse for this project and should be read together with the report. This summary applies only at the location of the Boring and at the time of drilling. Subsurface conditions may differ at other locations and may change at this location with the passage of time. The data presented is a simplification of actual conditions encountered.						
		MANURE **Some Silty Sand,** fine to coarse-grained, moist, dark brown to brown						OC
		CONCRETE (SLURRY) **AGGREGATE CONCRETE SLURRY** fine to coarse-grained, concrete and cement mixture, gray						
5		**ARTIFICIAL FILL** **SAND (SP):** fine to medium-grained, trace clay, trace silt, few organics, some debris, slightly desiccated, moist, greenish brown to orangish brown.						
		End of test pit at 6.0 feet bgs. Groundwater not encountered. Test pit backfilled with soil cuttings and compacted by pushing down the bucket using the backhoe weight on 01/24/2022.						

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Project No. 21-81-154-02

Drawing No. A-20

Appendix B

Laboratory Testing Program

APPENDIX B

LABORATORY TESTING PROGRAM

Tests were conducted in our laboratory on representative soil samples for the purpose of classification and evaluation of their physical properties and engineering characteristics. The amount and selection of tests were based on the geotechnical parameters required for this project. Test results are presented herein and on the Logs of Borings and Test Pits, in Appendix A, *Field Exploration*. The following is a summary of the various laboratory tests conducted for this project.

In-Situ Moisture Content and Dry Density

In-situ dry density and moisture content tests were performed on relatively undisturbed ring samples, in accordance with ASTM Standard D2216 and D2937 to aid in soils classification and to provide qualitative information on strength and compressibility characteristics of the site soils. For test results, see the Logs of Borings and Test Pits in Appendix A, *Field Exploration*.

Organic Content

Tests were performed on twelve select samples during the current geotechnical investigation and eight select samples during the previous geotechnical evaluation tests were performed of the soil stockpile, within the central portion of the site, to determine the organic content, in accordance with the ASTM Standard D2974 test, Methods A and C. Test results are summarized in the table below.

Table No. B-1, Summary of Organic Content Test Results

Test Pit No.	Depth (feet)	Soil Description	Total Organic Content (%)
TP-01	0.0-1.3	Silty Sand (SM), Fill	8.3
TP-02	2.0-7.5	Silty Sand (SM), Fill	6.0
TP-03	2.5-4.5	Silty Sand (SM), Fill	8.2
TP-04	2.0-6.0	Silty Sand (SM), Fill	5.4
TP-05	0.5-5.0	Silty Sand (SM), Fill	1.9
TP-06	0.0-1.5	Silty Sand (SM), Fill	8.7
TP-06	4.8-10.0	Sandy Silt (SM), Native	2.1
TP-08	0.0-2.0	Silty Sand (SM), Fill	7.7
TP-08	3.0-5.0	Sand (SP), Native	1.5
TP-10	0.0-0.9	Silty Sand (SM), Fill	7.4
TP-11	0.0-2.0	Silty Sand (SM), Fill	2.1

Test Pit No.	Depth (feet)	Soil Description	Total Organic Content (%)
TP-12	1.5-4.0	Silty Sand (SM), Fill	2.5

Table No. B-1a, Summary of Organic Content Test Results (Stockpile, Converse, 2021)

Test Pit No.	Depth (feet)	Soil Description	Total Organic Content (%)
TP-01	0.0-7.0	Silty Sand /Sandy Silt (SM/ML), trace clay, Fill	1.7
TP-02	0.0-7.5	Silty Sand /Sandy Silt (SM/ML), trace clay, Fill	2.0
TP-03	0.0-8.0	Silty Sand (SM), trace clay, Fill	0.8
TP-04	0.0-7.0	Silty Sand/Clayey Sand (SM/SC), Fill	4.2
TP-05	0.0-7.5	Silty Sand/Clayey Sand (SM/SC), Fill	4.2
TP-06	0.0-10.0	Silty Clay (CL), Fill	2.8
TP-07	0.0-9.0	Sandy Clay (CL), Fill	5.6
TP-08	0.0-5.0	Silty Sand (SM), trace clay, Fill	4.2

Expansion Index

Two representative bulk samples were tested during the current geotechnical investigation and two bulk samples were tested during the previous geotechnical evaluation of the soil stockpile, within the central portion of the site, to evaluate the expansion potential of materials encountered at the site in accordance with ASTM D4829 Standard. The test results are presented in the following table.

Table No. B-2, Expansion Index Test Results

Test Pit No.	Depth feet)	Soil Description	Expansion Index	Expansion Potential
BH-03	3.0-9.0	Silty Sand/Sandy Silt (SM/ML)	4	Very Low
TP-10	3.0-5.0	Silty Sand (SM)	0	Very Low

Table No. B-2a, Expansion Index Test Results (Stockpile, Converse, 2021)

Test Pit No.	Depth feet)	Soil Description	Expansion Index	Expansion Potential
TP-06	0.0-10.0	Silty Clay (CL)	79	Medium
TP-07	0.0-9.0	Sandy Clay (CL)	53	Medium

R-value

One representative bulk soil sample was tested for resistance value (R-value) in accordance with California Test Method CT301. This test provides a relative measure of soil strength for use in pavement design. The test result is presented in the table below.

Table No. B-3, R-Value Test Result

Test Pit No.	Depth (feet)	Soil Classification	Measured R-value
BH-03	3.0-9.0	Silty Sand/Sandy Silt (SM/ML)	65

Soil Corrosivity

Two representative soil samples were tested during the current geotechnical investigation and four bulk samples were tested during the previous geotechnical evaluation of the soil stockpile, within the central portion of the site, to determine minimum electrical resistivity, pH, and chemical content, including soluble sulfate and chloride concentrations. The purpose of this test was to determine the corrosion potential of site soils when placed in contact with common construction materials. The tests were performed by AP Engineering and Testing, Inc. (Pomona, CA) in accordance with Caltrans Test Methods 643, 422 and 417. Test results are presented in the following table.

Table No. B-4, Summary of Soil Corrosivity Test Results

Boring No.	Depth (feet)	pH	Soluble Sulfates (CA 417) (ppm)	Soluble Chlorides (CA 422) (ppm)	Min. Resistivity (CA 643) (Ohm-cm)
BH-03	3.0-9.0	8.7	43	25	1,703

Table No. B-4a, Soil Corrosivity Test Result (Stockpile, Converse, 2021)

Boring No.	Depth (feet)	pH	Soluble Sulfates (CA 417) (ppm)	Soluble Chlorides (CA 422) (ppm)	Min. Resistivity (CA 643) (Ohm-cm)
TP-01	0.0-7.0	8.6	289	48	1,031
TP-04	0.0-7.0	8.3	2,073	95	233
TP-05	0.0-7.5	8.6	2,759	146	300
TP-07	0.0-9.0	8.1	3,872	227	322

Collapse

To evaluate the moisture sensitivity (collapse/swell potential) of the encountered soils, two collapse tests were performed in accordance with the ASTM Standard D4546 laboratory procedure. The samples were loaded to approximately 2 kips per square foot (ksf), allowed to stabilize under load, and then submerged. The test results are presented in the following table.

Table No. B-5, Collapse Test Results

Boring No.	Depth (feet)	Soil Classification	Percent Swell (+) Percent Collapse (-)	Collapse Potential
BH-03	3.0-4.5	Sandy Silt (ML)	-0.1	Slight
BH-04	2.5-4.0	Silty Sand (SM)	-0.2	Slight

Grain-Size Analysis

To assist in soil classification, mechanical grain-size analyses was performed on three select samples in accordance with the ASTM Standard D6913 test method. Grain-size distribution is summarized in the table below and plotted in Drawing No. B-1, *Grain Size Distribution Results*.

Table No. B-6, Grain Size Distribution Test Results

Test Pit No.	Depth (ft)	Soil Classification	% Gravel	% Sand	%Silt	%Clay
BH-04	0.0-4.0	Silty Sand (SM), trace gravel	4.0	56.6	39.4	
BH-04	15.0-16.5	Silty Sand (SM), few gravel	6.0	60.5	33.5	
BH-04	25.0-26.5	Silty Sand (SM)	0.0	68.9	31.1	

Maximum Dry Density and Optimum Moisture Content

Laboratory maximum dry density-optimum moisture content relationship tests were performed on two representative bulk samples. These tests were conducted in accordance with the ASTM Standard D1557 test method. The test results are presented in Drawing No. B-2, *Moisture-Density Relationship Results,* and is summarized in the following table.

Table No B-7, Summary of Moisture-Density Relationship Results

Test Pit No.	Depth (feet)	Soil Description	Optimum Moisture (%)	Maximum Density (lb./cft)
BH-05	0.0-4.0	Silty Sand (SM), Dark Brown	13.7	117.0
BH-05	7.0-13.0	Silty Sand (SM), Grayish Brown	10.3	120.2

Direct Shear

Two direct shear tests were performed; one direct shear tests were performed on relatively undisturbed samples and one direct shear test was performed on a sample remolded to 90% of the maximum dry density under soaked moisture conditions in accordance with ASTM D3080. For each test, three samples contained in brass sampler rings were placed, one at a time, directly into the test apparatus and subjected to a range of normal loads appropriate for the anticipated conditions. The samples were then sheared at a constant strain rate of 0.02 inch/minute. Shear deformation was recorded until a maximum of about 0.25-inch shear displacement was achieved. Ultimate strength was selected from the shear-stress deformation data and plotted to determine the shear strength parameters. For test data, including sample density and moisture content, see Drawings No. B-3 and B-4*, Direct Shear Test Results,* and the following table.

Table No. B-8, Summary of Direct Shear Test Results

Test Pit No.	Depth (feet)	Soil Description	Peak Strength Parameters	
			Friction Angle (degrees)	Cohesion (psf)
BH-04	5.0-6.5	Silty Sand (SM)	33	220
*BH-05	0.0-4.0	Silty Sand (SM)	29	160

*Remolded to 90% of the maximum dry density

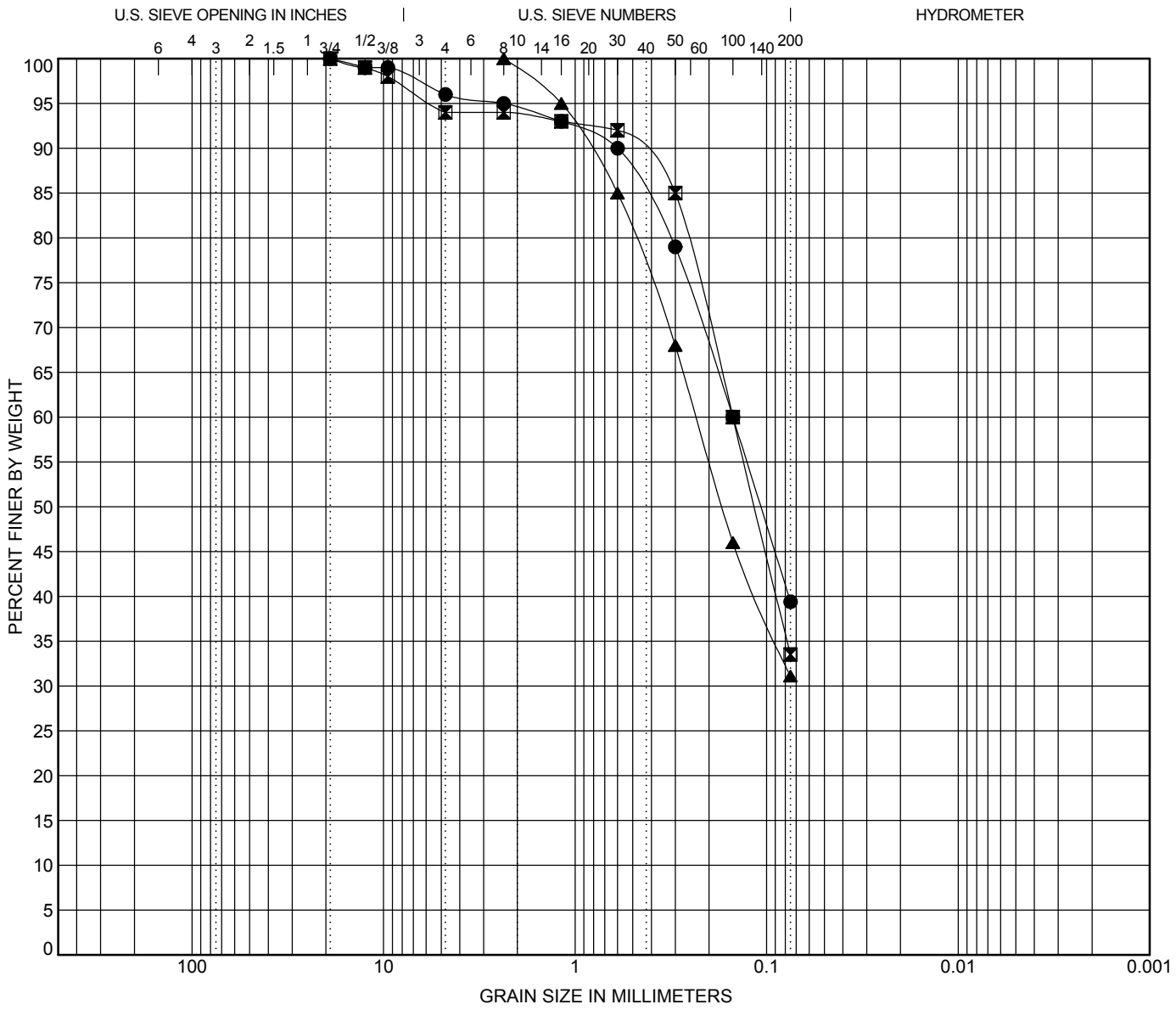
Consolidation

Two consolidation tests were conducted in accordance with ASTM Standard D2435 method. Data obtained from the test performed on relatively undisturbed ring samples were used to evaluate the settlement characteristics of the on-site soils under load. Preparation for these tests involved trimming the sample, placing it in a 1-inch-high brass ring, and loading it into the test apparatus, which contained porous stones to

accommodate drainage during testing. Normal axial loads were applied to one end of the sample through the porous stones, and the resulting deflections were recorded at various time periods. The load was increased after the sample reached a reasonable state of equilibrium. Normal loads were applied at a constant load-increment ratio, successive loads being generally twice the preceding load. For test results, including sample density and initial moisture content, see Drawings No. B-5 and B-6, *Consolidation Test Results*.

Sample Storage

Soil samples presently stored in our laboratory will be discarded 30 days after the date of this report, unless this office receives a specific request to retain the samples for a longer period.



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

	Boring No.	Depth (ft)	Description	LL	PL	PI	Cc	Cu
●	**BH-04**	**0-4**	**SILTY SAND (SM), Trace Gravel**					
⊠	**BH-04**	**15-16.5**	**SILTY SAND (SM), Few Gravel**					
▲	**BH-04**	**25-26.5**	**SILTY SAND (SM)**					

	Boring No.	Depth (ft)	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
●	**BH-04**	**0-4**	**19**	**0.15**			**4.0**	**56.6**	**39.4**	
⊠	**BH-04**	**15-16.5**	**19**	**0.15**			**6.0**	**60.5**	**33.5**	
▲	**BH-04**	**25-26.5**	**2.36**	**0.233**			**0.0**	**68.9**	**31.1**	

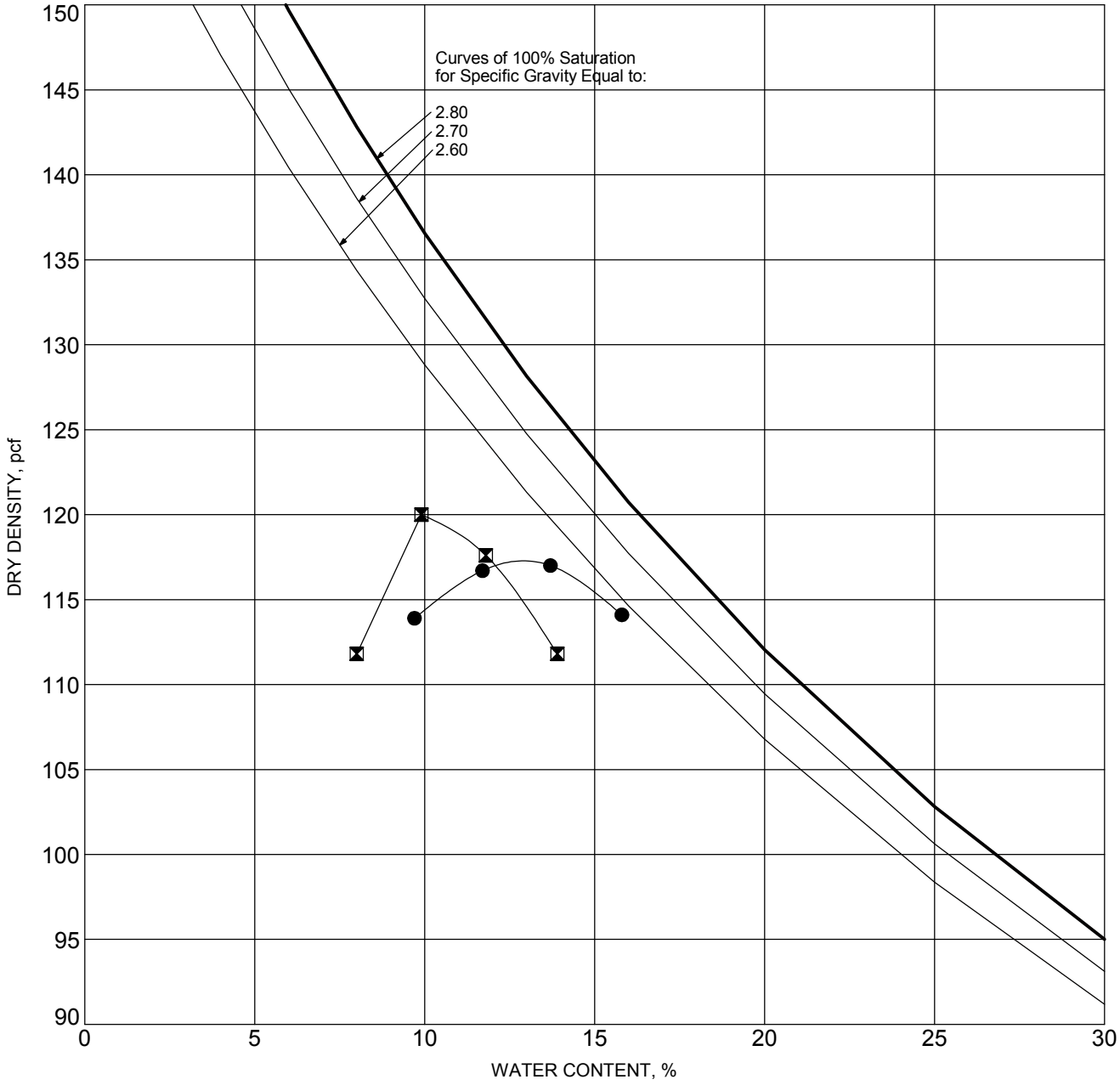
GRAIN SIZE DISTRIBUTION RESULTS

Converse Consultants

Euclid Mixed Use Specific Plan Project
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For: Euclid Land Investments c/o RCCD, Inc.

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Drawing No. **B-1**



SYMBOL	BORING NO.	DEPTH (ft)	DESCRIPTION	ASTM TEST METHOD	OPTIMUM WATER, %	MAXIMUM DRY DENSITY, pcf
●	**BH-05**	**0-4**	**SILTY SAND (SM), DARK GRAY**	**D1557 - A**	**13.7**	**117**
⊠	**BH-05**	**7-13**	**SILTY SAND (SM), GRAYISH BROWN**	**D1557 - A**	**10.3**	**120.2**

MOISTURE-DENSITY RELATIONSHIP RESULTS

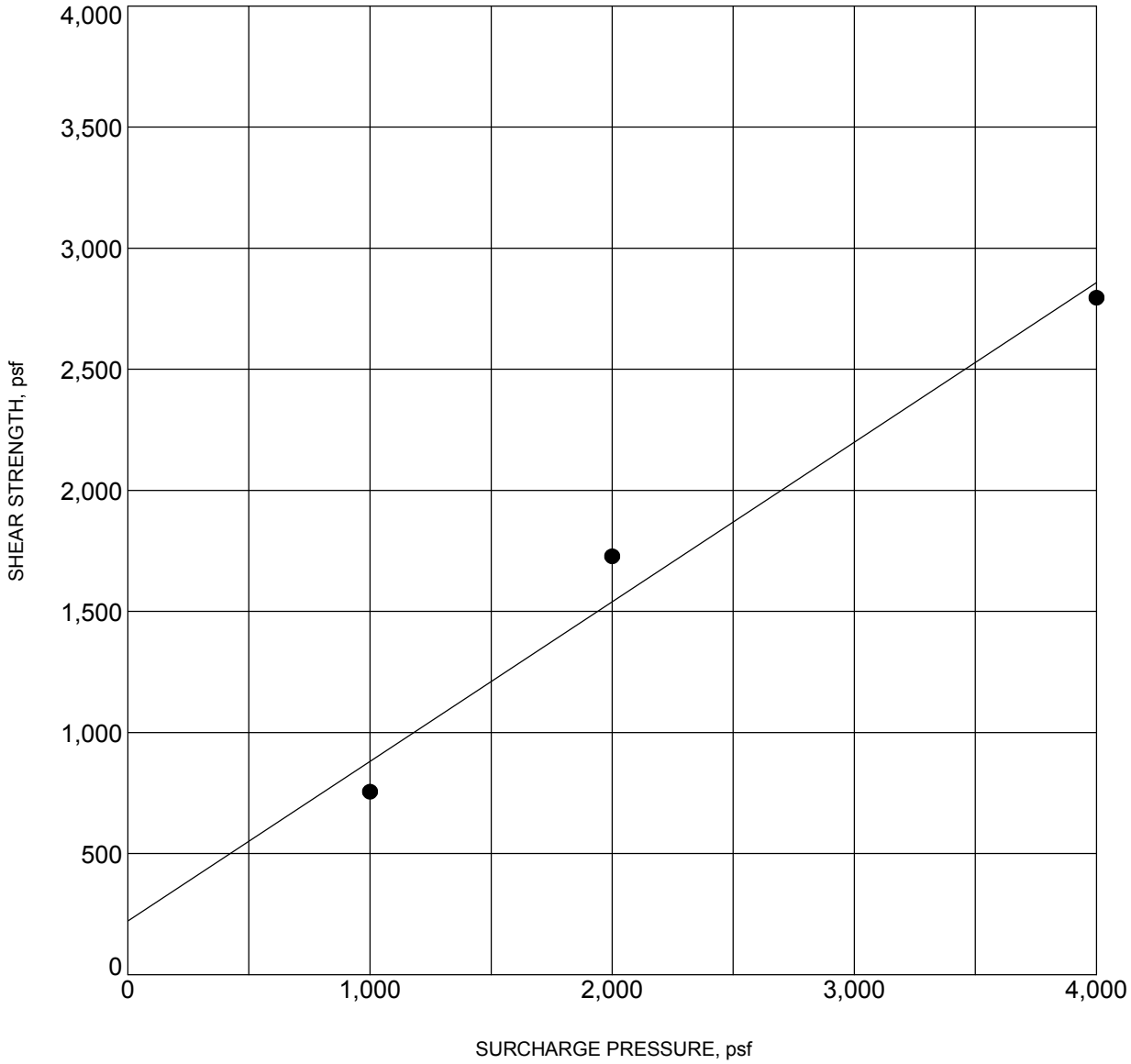
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Project No. **21-81-154-02**

Drawing No. **B-2**

Project ID: 21-81-154-02.GPJ; Template: COMPACTION



BORING NO.	:	**BH-04**	DEPTH (ft)	:	**5-6.5**
DESCRIPTION	:	**SILTY SAND (SM)**			
COHESION (psf)	:	**220**	FRICTION ANGLE (degrees):		**33**
MOISTURE CONTENT (%)	:	**19.0**	DRY DENSITY (pcf)	:	**109.0**

NOTE: Ultimate Strength.

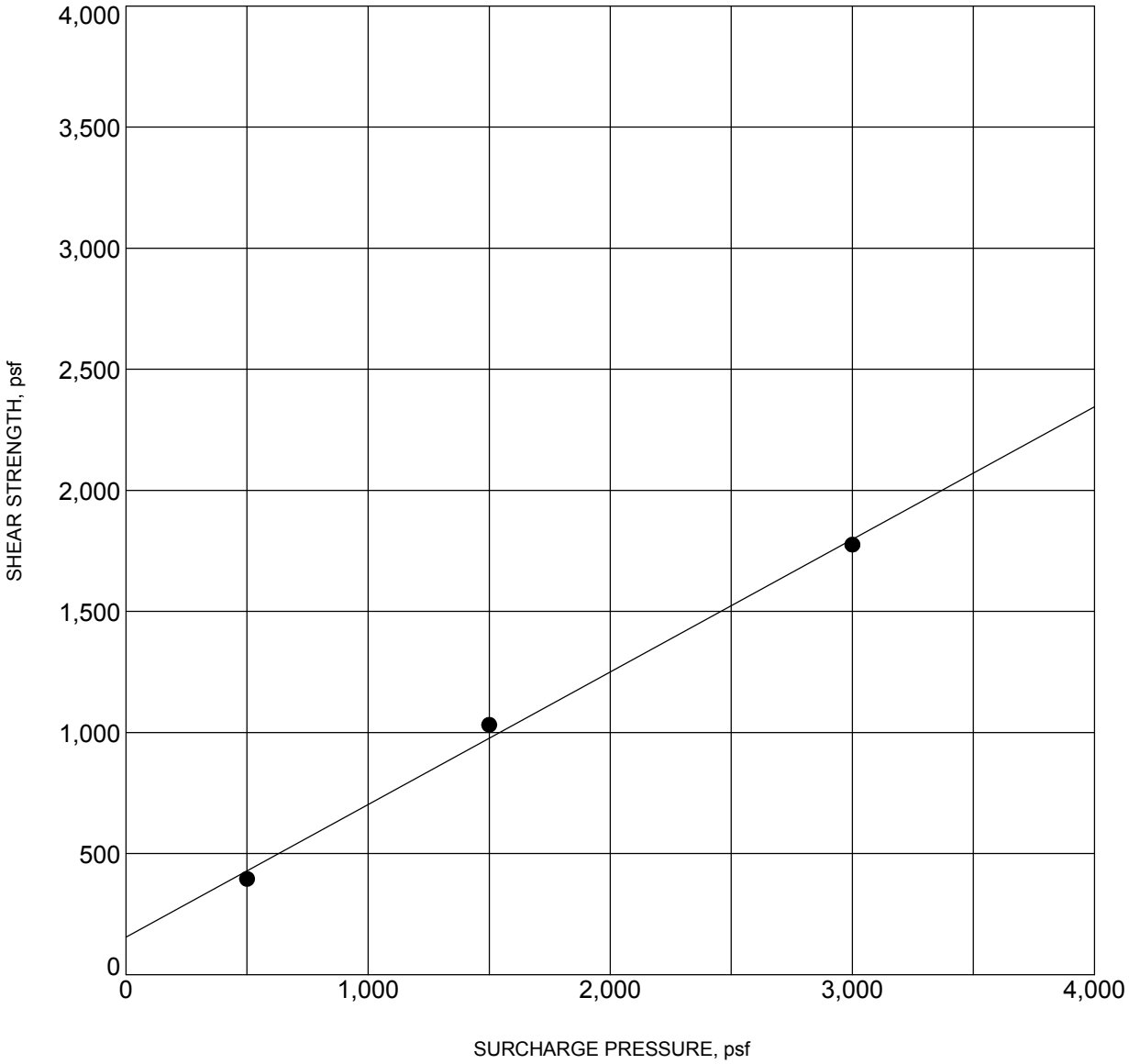
DIRECT SHEAR TEST RESULTS

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Euclid Mixed Use Specific Plan Project
Southeast Corner of Euclid Avenue and Schaefer Avenue
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Drawing No. **B-3**



BORING NO.	:	***BH-05**	DEPTH (ft)	:	**0-4**
DESCRIPTION	:	**SILTY SAND (SM)**			
COHESION (psf)	:	**160**	FRICTION ANGLE (degrees):		**29**
MOISTURE CONTENT (%)	:	**14.0**	DRY DENSITY (pcf)	:	**105.0**

*(Remolded to 90% of the laboratory maxiumum dry density)

NOTE: Ultimate Strength.

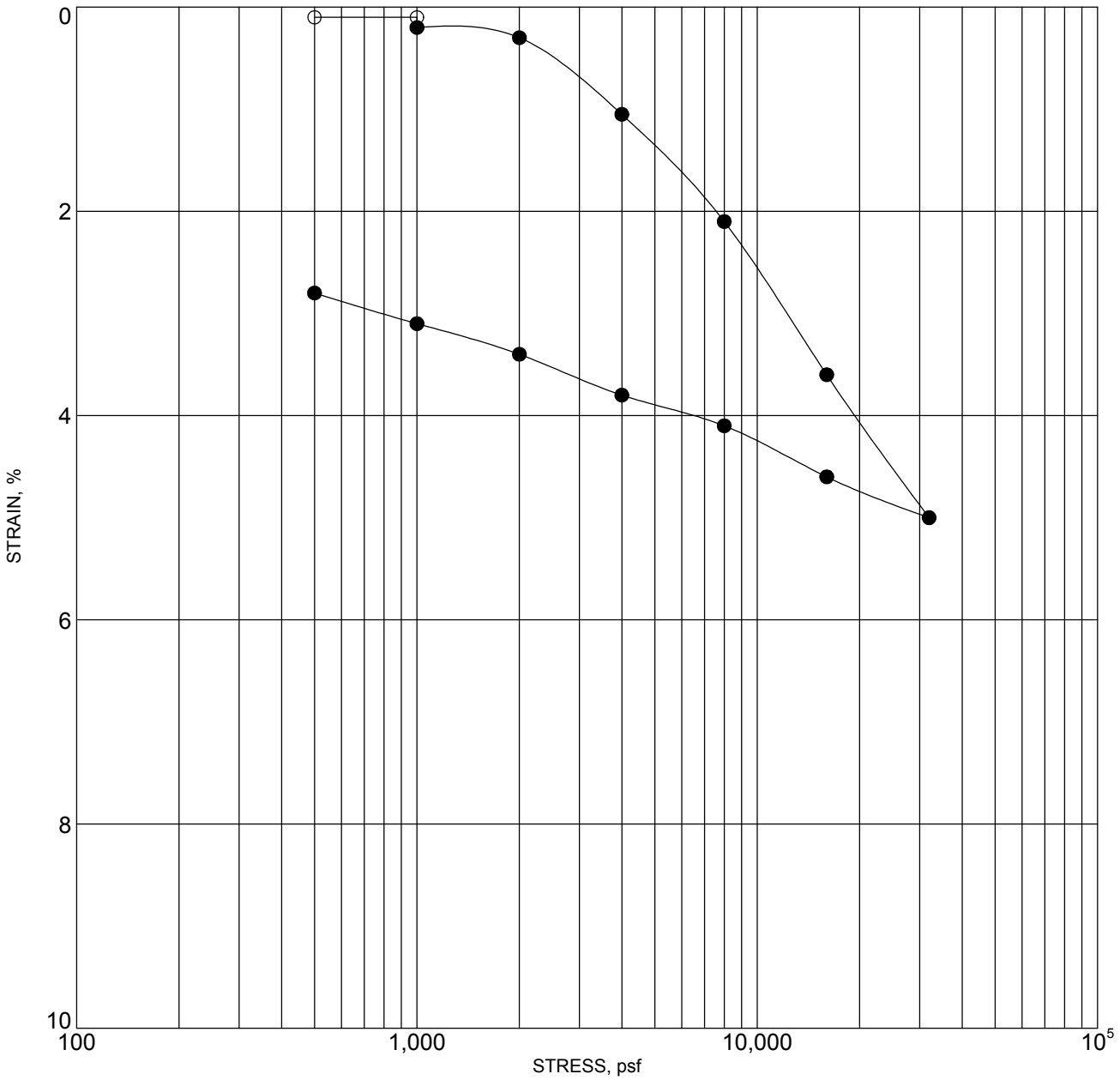
DIRECT SHEAR TEST RESULTS

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Southeast Corner of Euclid Avenue and Schaefer Avenue
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Drawing No. **B-4**



BORING NO. :	**BH-02**	DEPTH (ft) :	**5.0-6.5**
DESCRIPTION :	**SILTY SAND (SM)**		

	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	PERCENT SATURATION	VOID RATIO
INITIAL	**18**	**109**	**93**	**0.512**
FINAL				

NOTE: SOLID CIRCLES INDICATE READINGS AFTER ADDITION OF WATER

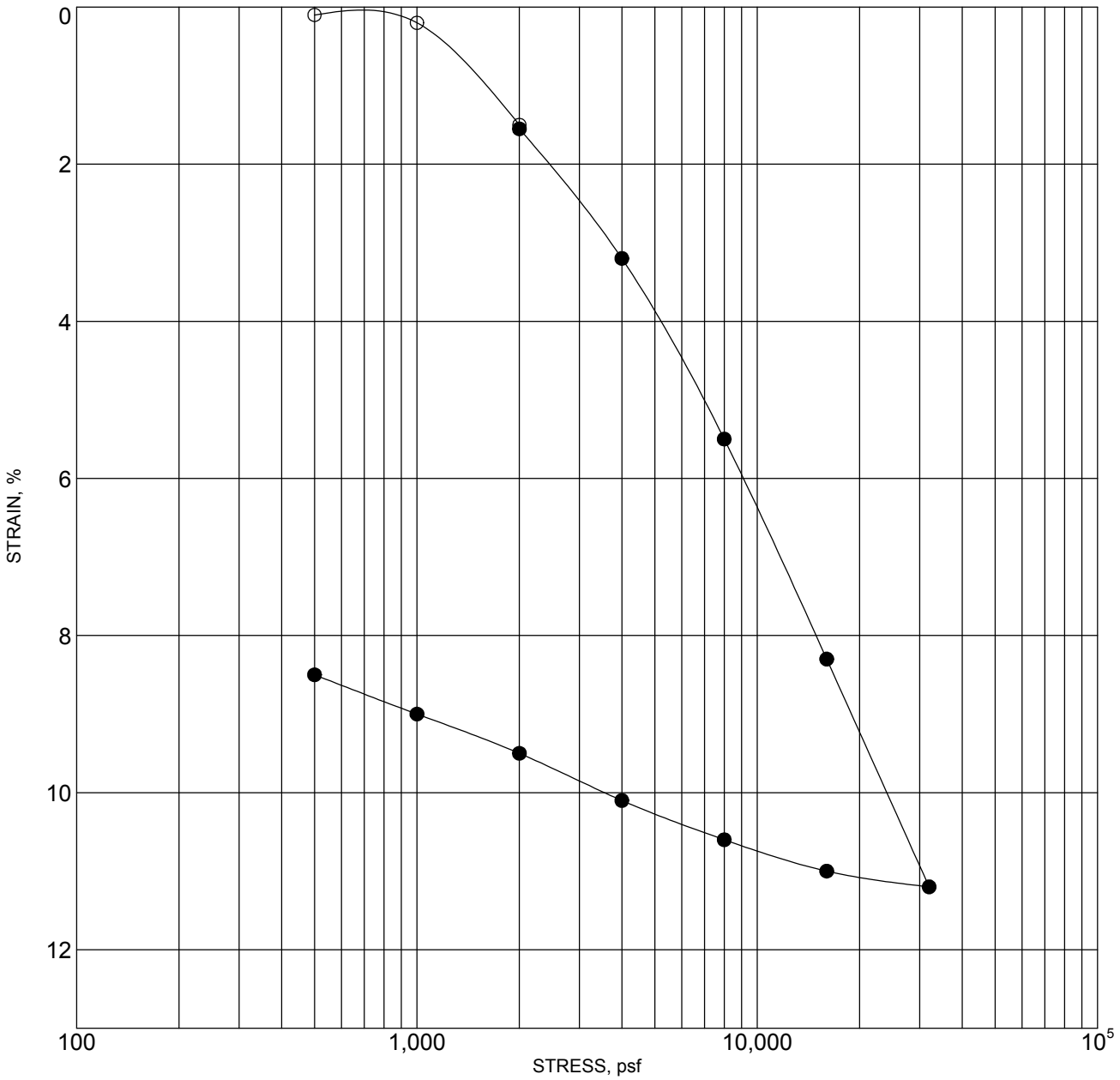
CONSOLIDATION TEST RESULTS

Converse Consultants

Euclid Mixed Use Specific Plan Project
Southeast Corner of Euclid Avenue and Schaefer Avenue
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Project No. **21-81-154-02**

Drawing No. **B-5**



BORING NO. :	**BH-06**	DEPTH (ft) :	**8.0-9.5**
DESCRIPTION :	**SANDY SILT (ML)**		

	MOISTURE CONTENT (%)	DRY DENSITY (pcf)	PERCENT SATURATION	VOID RATIO
INITIAL	**18**	**106.9**	**88**	**0.541**
FINAL				

NOTE: SOLID CIRCLES INDICATE READINGS AFTER ADDITION OF WATER

CONSOLIDATION TEST RESULTS

Converse Consultants

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Project No. **21-81-154-02**

Drawing No. **B-6**

Appendix C

Earthwork Specifications

APPENDIX C

EARTHWORK SPECIFICATIONS

C1.1 Scope of Work

The work includes all labor, supplies and construction equipment required to construct the building pads in a good manner, as shown on the drawings and herein specified. The major items of work covered in this section include the following.

- Site Inspection
- Authority of Geotechnical Engineer
- Site Clearing
- Excavations
- Preparation of Fill Areas
- Placement and Compaction of Fill
- Observation and Testing

C1.2 Site Inspection

1. The Contractor should carefully examine the site and make all inspections necessary in order to determine the full extent of the work required to make the completed work conform to the drawings and specifications. The Contractor should satisfy himself as to the nature and location of the work, ground surface and the characteristics of equipment and facilities needed prior to and during prosecution of the work. The Contractor should satisfy himself as to the character, quality, and quantity of surface and subsurface materials or obstacles to be encountered. Any inaccuracies or discrepancies between the actual field conditions and the drawings, or between the drawings and specifications must be brought to the Owner's attention in order to clarify the exact nature of the work to be performed.

2. This *Geotechnical Investigation and Organic Soil/Manure Evaluation Report* by Converse Consultants may be used as a reference to the surface and subsurface conditions on this project. The information presented in this report is intended for use in design and is subject to confirmation of the conditions encountered during construction. The exploration logs and related information depict subsurface conditions only at the particular time and location designated on the boring logs. Subsurface conditions at other locations may differ from conditions encountered at the exploration locations. In addition, the passage of time may result in a change in subsurface conditions at the exploration locations. Any review of this information should not relieve the Contractor from performing such independent investigation

and evaluation to satisfy himself as to the nature of the surface and subsurface conditions to be encountered and the procedures to be used in performing his work.

C1.3 Authority of the Geotechnical Engineer

1. The Geotechnical Engineer will observe the placement of compacted fill and will take sufficient tests to evaluate the uniformity and degree of compaction of filled ground.
2. As the Owner's representative, the Geotechnical Engineer will (a) have the authority to cause the removal and replacement of loose, soft, disturbed and other unsatisfactory soils and uncontrolled fill; (b) have the authority to approve the preparation of native ground to receive fill material; and (c) have the authority to approve or reject soils proposed for use in building areas.
3. The Civil Engineer and/or Owner will decide all questions regarding (a) the interpretation of the drawings and specifications, (b) the acceptable fulfillment of the contract on the part of the Contractor and (c) the matters of compensation.

C1.4 Site Clearing

1. Clearing and grubbing should consist of the removal from areas to be graded: all existing pavement, utilities, and vegetation.
2. Organic and inorganic materials resulting from the clearing and grubbing operations should be hauled away from the areas to be graded.

C1.5 Excavations

Based on observations made during our field explorations, the surficial soils can be excavated with conventional earthwork equipment.

C1.6 Preparation of Fill Areas

1. All highly organic soils, manure and debris should be removed from the proposed foundation, improvements and/or fill areas.
2. After the required removals have been made, the exposed earth materials (undocumented artificial fill, topsoil and the upper low-density portions of the alluvium), should be overexcavated to provide a zone of structural fill for the support of footings, slabs-on-grade, and exterior flatwork or proposed improvements. All loose, soft or disturbed earth materials should be removed from the bottom of excavations before placing structural fill. Any structures will require

a minimum of 3.0 feet of compacted fill beneath building footings and 2.0 feet below any proposed wall footings or 5.0 feet blow proposed grade, whichever is deeper

3. The subgrade in all areas to receive fill should be scarified to a minimum depth of 6 inches. Scarification may be terminated on moderately hard to hard, cemented earth materials with the approval of the Geotechnical Engineer. The soil moisture should be adjusted to at least 2 percent above optimum for fine-grained soils and within 3 percent of optimum moisture content for granular soils, and then compacted to at least 90 percent of the laboratory maximum dry density as determined by ASTM Standard D1557 test method.
4. Compacted fill may be placed on native soils that have been properly scarified and recompacted as discussed above.
5. All areas to receive compacted fill will be observed and approved by the Geotechnical Engineer before the placement of fill.

C1.7 Placement and Compaction of Fill

1. Compacted fill placed for the construction of the embankment or for any planned structures will be considered structural fill. Structural fill may consist of approved on-site soils or imported fill that meets the criteria indicated below.
2. Fill consisting of selected on-site earth materials or imported soils approved by the Geotechnical Engineer should be placed in layers on approved earth materials. Soils used as compacted structural fill should have the following characteristics:
    a. All fill soil particles should not exceed 8 inches in nominal size and should not have an organic content greater than 2%, as well as free of matter and miscellaneous inorganic debris and inert rubble.
    b. Imported fill materials should have an Expansion Index (EI) less than 20. All imported fill should be compacted to at least 90 percent of the laboratory maximum dry density (ASTM Standard D1557) at about 2 percent above optimum moisture for fine-grained soils, and within 3 percent of optimum for granular soils.
3. Fill exceeding 5 feet in height should not be placed on native slopes that are steeper than 5:1 horizontal:vertical (H:V). Where native slopes are steeper than 5:1 H:V, and the height of the fill is greater than 5 feet, the fill should be benched into competent materials. The height and width of the benches should be at least 2 feet.
4. Representative samples of materials being used, as compacted fill will be analyzed in the laboratory by the Geotechnical Engineer to obtain information on their physical properties. Maximum laboratory density of each soil type used in the

compacted fill will be determined by the ASTM Standard D1557 compaction method.

5. Fill materials should not be placed, spread or compacted during unfavorable weather conditions. When site grading is interrupted by heavy rain, filling operations should not resume until the Geotechnical Engineer approves the moisture and density conditions of the previously placed fill.
6. It should be the Grading Contractor's obligation to take all measures deemed necessary during grading to provide erosion control devices in order to protect slope areas and adjacent properties from storm damage and flood hazard originating on this project. It should be the Contractor's responsibility to maintain slopes in their as-graded form until all slopes are in satisfactory compliance with job specifications, all berms have been properly constructed, and all associated drainage devices meet the requirements of the Civil Engineer.

C1.8 Fill Slope Construction

1. Fill slopes placed above existing surfaces or cut slopes should be constructed with keyways.
2. Where fill is placed against existing slopes steeper than 5:1 H:V, the new fill slopes should be keyed and benched to provide increased lateral support after removal of the unsuitable surficial soils, when present.

C1.9 Observation and Testing

1. During the progress of grading and trench backfill, the Geotechnical Engineer will provide observation of the fill placement operations.
2. Field density tests of all compacted fill will be made during grading and trench backfill to provide an opinion on the degree of compaction being obtained by the Contractor. Where compaction of less than specified herein is indicated, additional compactive effort with adjustment of the moisture content should be made as necessary, until the required degree of compaction is obtained.
3. A sufficient number of field density tests will be performed to provide an opinion to the degree of compaction achieved. In general, density tests will be performed on each one-foot lift of fill, but not less than one for each 500 cubic yards of fill placed.

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

March 27, 2023

Mr. Jason Lee
Vice President
Euclid Land Investments
c/o RCCD, Inc.
8101 E. Kaiser Boulevard, Suite 140
Anaheim Hills, California 92808

Subject: **UPDATED GEOTECHNICAL SEISMIC DESIGN PARAMETERS**
Euclid Mixed Use Specific Plan Project
Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, County of San Bernardino, California
Converse Project No. 21-81-154-02

Reference: Converse Consultants, 2022, Preliminary Geotechnical Investigation and Organic Soil/Manure Report, Euclid Mixed Use Specific Plan Project, Southeast Corner of Euclid Avenue and Schaefer Avenue, City of Ontario, County of San Bernardino, California, Converse Project No. 21-81-154-02, dated March 30, 2022.

Dear Mr. Lee:

Pursuant to your request, Converse Consultants (Converse) has prepared this updated geotechnical foundation design parameters letter for the Euclid Mixed Use Specific Plan Project, located at the southeast corner of Euclid Avenue and Schaefer Avenue, in the City of Ontario, San Bernardino County, California. This letter provides updated geotechnical seismic design parameters, to the current 2022 CBC, for the proposed mixed use business park development.

The seismic design soil parameters are presented below in Table No. 1.

CBC SEISMIC DESIGN PARAMETERS

Seismic parameters based on the 2022 California Building Code (CBC, 2022) and ASCE 7-16 are provided in the following table. These parameters were determined using the coordinate (33.9265N and 117.6052W) and the Seismic Design Maps ATC online tool.

Table No. 1, CBC 2022 Seismic Design Parameters

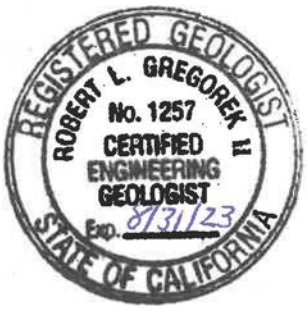
Seismic Parameters	
Site Coordinates	34.0018N and 117.6480W
Site Class	D
Risk Category	II
Mapped Short period (0.2-sec) Spectral Response Acceleration, S_s	1.621g
Mapped 1-second Spectral Response Acceleration, S_1	0.583g
Site Coefficient (from Table 11.4-1), F_a	1.0
Site Coefficient (from Table 11.4-2), F_v	2.5
MCE 0.2-sec period Spectral Response Acceleration, S_{MS}	1.161g
MCE 1-second period Spectral Response Acceleration, SM_1	1.455g
Design Spectral Response Acceleration for short period S_{DS}	1.081g
Design Spectral Response Acceleration for 1-second period, S_{D1}	0.970g
Maximum Peak Ground Acceleration, PGA_M	0.735g

We appreciate the opportunity to provide continuing geotechnical services on this project to Euclid Land Investment. If you have any questions, or if we can provide any additional assistance, please call the undersigned at 909-796-0544.

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CONVERSE CONSULTANTS





Robert L. Gregorek II, CEG, PG
Senior Geologist

Dist.:1/Addressee
MS/RLG/kvg

APPENDIX E2

GEOTECHNICAL EVALUATION REPORT OF SOIL STOCKPILE

Converse Consultants
75 Years of Dedication in Geotechnical Engineering & Consulting, Environmental & Groundwater Science, Materials Testing & Inspection Services

October 20, 2021

Mr. Jason Lee
Vice President
RCCD, Inc.
8101 E. Kaiser Boulevard, Suite 140
Anaheim Hills, California 92808

Subject: **GEOTECHNICAL EVLUATION REPORT OF SOIL STOCKPILE**
ARTEVAL Property
Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernardino County, California
Converse Project No. 20-81-154-01

Dear Mr. Lee:

Converse Consultants (Converse) is pleased to submit the results of our geotechnical evaluation of the soil stockpile at the subject site for the proposed commercial and residential development. This letter report was prepared in accordance with our Agreement for Geotechnical Services dated March 30, 2020. and your signed Authorization of Agreement, dated June 22, 2021.

SITE LOCATION AND CURRENT CONDITIONS

The soil stockpile in located within the central potion of an approximately 59.56-acre L-shaped dairy site, which is located at the southeast corner of Euclid Avenue and Schaefer Avenue, in the City of Ontario, San Bernardino, California. The entire property is bounded to the north by Schaefer Avenue, to the west by Euclid Avenue, to the south and east by existing active and abandoned dairies. The approximate location of the site is shown in Figure No. 1, Approximate Soil Stockpile and Test Pit Locations Map.

The soil stockpile is approximately 420 feet 430 feet long, 70 feet to 80 feet wide and 5 feet to 10 feet high. A light growth of weeds and grasses are present on portions of the soil stockpile. Some scattered localized debris and trash is present on the surface.

PROPOSED DEVELOPMENT AND GRADING

Based on conversations with Mr. Jason Lee of RCCD, Inc. the property will be developed for mixed residential and commercial use. No development or grading plans are available at this time.



Project: ARTEVAL Property
Location: Southeast Corner of Euclid Avenue and Schaefer Avenue
City of Ontario, San Bernardino County, California

For: RCCD, Inc.

Approximate Soil Stockpile and Test Pit Locations Map

Project No.
21-81-154-01

Converse Consultants

Figure
1

SCOPE OF WORK

The scope of Converse's investigation is described in the following sections.

Project Set-up

The project set-up consisted of the following tasks.

- Conducted a site reconnaissance to mark the site for exploration and to verify backhoe access to the proposed locations were available.
- Notified Underground Service Alert (USA) at least 48 hours prior to conducting field work to clear the test pit locations of any conflict with existing underground utilities.
- Engaged a backhoe company to excavate exploratory test pits.

Subsurface Exploration

Eight exploratory test pits (TP-01 through TP-08) were excavated using a backhoe equipped with 24-inch-wide bucket to investigate the subsurface conditions on July 28, 2021. The test pits were excavated from approximately 9 feet to 12 feet below the existing ground surface (bgs).

Laboratory Testing

Representative samples of the stockpiled soils were tested in the laboratory to aid in evaluating the suitability of the use of the soil for future development. These tests included the following.

- *In-situ* moisture contents (ASTM D2216)
- Organic Content (ASTM D2974, Methods A and C)
- Expansion Index (ASTM D4829)
- Soils Corrosivity (CTM 643, 422, 417, 532)

SUBSURFACE PROFILE

Based on the test pits, and previous laboratory test results, the subsurface soil within the stockpile consisted primarily of partially organic artificial fill. Based on observations and exploration the approximate depth of these fill soils is estimated to range in depth from about 5.0 foot to 10.0 feet. These partially organic artificial fill soils were generally comprised of a mixture of silty sand, clayey sand, sandy silt and sandy clay and silty clay, which were fine to coarse-grained, moist to wet and various shades of brown, yellow, gray and black, with some organics/manure.

LABORATORY TEST RESULTS

Laboratory testing was performed to determine the physical and chemical characteristics and engineering properties of the subsurface soils. Current physical test results are included in Appendix A, *Laboratory Testing Results*. Discussions of the various test results are presented below.

Physical Testing

- In-situ Moisture: *In-situ* moisture contents of the stockpiled soils were determined in accordance with ASTM Standard D2216. Moisture contents of the soils ranged from 11 to 31 percent.
- *Organic Content*: Six organic content tests were performed in accordance with ASTM Standard D2974 on representative bulk soil samples. The amount of organic material present in the stockpiled soils ranged from 0.8% to 5.6%.
- *Expansion Index:* Two representative bulk soil samples were tested to evaluate the expansion potential stockpiled soils in accordance with ASTM Standard D4829. The test results indicated expansion index is 53 and 79, corresponding to medium expansion potential.

Chemical Testing - Corrosivity Evaluation

Four representative soil samples were tested to determine minimum electrical resistivity, pH, and chemical content, including soluble sulfate and chloride concentrations. The purpose of this test was to determine the corrosion potential of site soils when placed in contact with common pipe materials. The test was performed by AP Engineering and Testing, Inc. (Pomona, CA) in accordance with California Test Methods 643, 422, and 417. The test result is presented in Appendix A, *Laboratory Testing Results and* is summarized in below.

- The pH measurement of the samples tested ranged from 8.1 to 8.6.
- The sulfate content of the samples tested ranged from 289 ppm to 3672 ppm (0.0289 percent to 0.3672 percent by weight).
- The chloride concentration of the samples tested ranged from 46 ppm to 227 ppm.
- The minimum electrical resistivity when saturated was 332 ohm-cm to 1,031 ppm.

RECOMMENDATIONS

General

This section contains our general recommendations regarding the use of the subject stockpiled soil material as engineered fill during future development.

These recommendations are based on the results of our field sampling and laboratory testing as well as our experience with similar projects in the area and data evaluation as presented in the preceding sections. Based on observations of excavations and laboratory test results a portion of the stockpiled fill soils appear to be imported from sources outside of the surrounding area. These recommendations may require modification by the geotechnical consultant based on observations and laboratory testing during grading.

Moisture Content

Based on the laboratory test results portions of the subject stockpiled fill soils are clayey with a very high moisture content that would require drying back prior to use as compacted fill. Fill soils should be thoroughly mixed, and moisture conditioned to within ±3 percent of optimum moisture content for coarse soils and 0 to 2 percent above optimum moisture content for fine soils. Fill soils should be evenly spread in horizontal lifts not exceeding 8 inches in uncompacted thickness.

Organic Content

Based on the laboratory test results of the partially organic soils indicated the subject stockpiled fill soils has organic contents of about 0.8 percent to 5.6 percent. This would be an average organic content of about 3.2 percent. Therefore, these stockpiled soils consisting of partially organic artificial fill should be blended with undisturbed natural soils or removed from the site.

Fill materials should contain no more than 2 percent overall organics. The partially organic soils can be blended with the on-site natural soils at a ratio of 2 to 1 (natural soils/clean imported soils to partially organic soils) and placed as compacted fill, provided they are completely mixed during fill placement. The type of equipment and method of placement; blending and mixing of the partially organic materials with onsite natural soils or clean imported soils to be utilized by the grading contractor, should be reviewed and accepted by the geotechnical consultant prior to implementation. A possible method of placement that could be considered would be to place the partially organic materials at an angle to the pattern of the placement of the onsite natural soils or clean imported soils. The testing frequency for verifying the percent organic content should be established by the geotechnical consultant prior to fill placement once the method of blending, placement, and mixing of the partially organic materials with onsite natural soils or clean imported soils.

Soil Expansion

Based on the laboratory test results portions of the subject stockpiled fill soil materials exhibited an expansion potential of Medium, in accordance with 2019 CBC. Based on experience in the area the majority of soils on the site are anticipated to be sandier and exhibit expansion potentials of Very low to Low. Therefore, consideration should be made to place these stockpiled fill soils in deeper fills (at least 5 feet below proposed grade), landscape areas or non-structural fills or blended with sandier soils on site, outside of the subject fill stockpile, to reduce the expansion potential. Testing of the soil during rough grading should be performed to determine the actual pad-by-pad expansion potential.

Soil Corrosivity

The results of chemical testing of representative stockpiled fill soils are presented in Appendix A, *Laboratory Testing Results*, and a general discussion are presented below.

The sulfate content of the soils tested correspond to American Concrete Institute (ACI) exposure category S2 for this sulfate concentration (ACI 318-14, Table 19.3.1.1). ACI recommends a minimum compressive strength of 4,500 psi for exposure category S2 in ACI 318-14, Table 19.3.2.1. A minimum compressive strength of 4,500 psi is recommended. A maximum water cement ratio of 0.40 is recommended. Cementitious materials should be Type V.

We anticipate that concrete structures such as footings, slab, and concrete pad will be exposed to moisture from precipitation and irrigation. Based on the site location and the results of chloride testing of the stockpiled fill soils, we anticipate that concrete structures will be exposed to external sources of chlorides, such as deicing chemicals, salt, brackish water, or seawater. ACI specifies exposure category C1 where concrete is exposed to moisture, but not to external sources of chlorides (ACI 318-14, Table 19.3.1.1). ACI provides concrete design recommendations in ACI 318-14, Table 19.3.2.1, including a compressive strength of at least 2,500 psi and a maximum chloride content of 0.3 percent.

The measured value of the minimum electrical resistivities when saturated ranged from 300 Ohm-cm to 1,031 Ohm-cm. This indicates that the soils tested are corrosive to severely corrosive to ferrous metals in contact with the soil (Romanoff, 1957). Metal piping should be corrosion-protected, or consideration should be given to using plastic piping metal. Converse does not practice in the area of corrosion consulting. A qualified corrosion consultant should provide appropriate corrosion mitigation measures for ferrous metals in contact with the site soils.

Therefore, consideration should be made to place these stockpiled fill soils in deeper fills (at least 5 feet below proposed grade), landscape areas or non-structural fills or

blended with on-site soils, outside of the subject fill stockpile, to reduce the high corrosion potentials.

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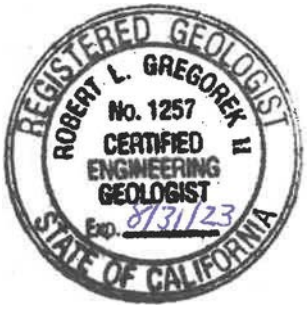
Testing of the soil during rough grading should be performed to determine the pad-by-pad soil corrosivity to common construction materials.

CLOSING

This letter report is prepared for the project described herein and is intended for use solely by RCCD, Inc and their authorized agents, to assist in the development of the site. Our findings and recommendations were obtained in accordance with generally accepted professional principles practiced in geotechnical engineering. We make no other warranty, either expressed or implied.

We appreciate the opportunity to be of service to RCCD, Inc. If you have any questions, please do not hesitate to contact us at 909-796-0544.

CONVERSE CONSULTANTS



Robert L. Gregorek II, PG, CEG
Senior Geologist

Dist.: 1/Addressee (e-mail)
Encl: *Appendix A, Laboratory Testing Results*
RLG/kvg

Appendix A

Laboratory Testing Results

APPENDIX A

LABORATORY TESTING RESULTS

Tests were conducted in our laboratory on representative soil samples for the purpose of classification and evaluation of their physical properties and engineering characteristics. The amount and selection of tests were based on the geotechnical parameters required for this project. Test results are presented herein. The following is a summary of the various laboratory tests conducted for this project.

In-Situ Moisture Content

In-situ moisture content tests were performed on disturbed bulk samples, in accordance with ASTM Standard D2216 to aid in soils classification and to provide moisture characteristics of the stockpiled fill soils. Test results are summarized in the table below.

Table No. A-1, Summary of In-Situ Moisture Content Test Results

Test Pit No.	Depth (feet)	Soil Description	Moisture Content (%)
TP-01	0.0-7.0	Silty Sand /Sandy Silt (SM/ML), trace clay	17
TP-02	0.0-7.5	Silty Sand /Sandy Silt (SM/ML), trace clay	16
TP-03	0.0-8.0	Silty Sand (SM), trace clay	15
TP-04	0.0-7.0	Silty Sand/Clayey Sand (SM/SC)	12
TP-05	0.0-7.5	Silty Sand/Clayey Sand (SM/SC)	12
TP-06	0.0-10.0	Silty Clay (CL)	20
TP-07	0.0-9.0	Sandy Clay (CL)	31
TP-08	0.0-5.0	Silty Sand (SM), trace clay	11

Organic Content

Tests were performed on eight select samples of stockpiled fill soils to determine the organic content, in accordance with the ASTM Standard D2974 test, Methods A and C. Test results are summarized in the table below.

Table No. A-2, Summary of Organic Content Test Results

Test Pit No.	Depth (feet)	Soil Description	Total Organic Content (%)
TP-01	0.0-7.0	Silty Sand /Sandy Silt (SM/ML), trace clay	1.7
TP-02	0.0-7.5	Silty Sand /Sandy Silt (SM/ML), trace clay	2.0
TP-03	0.0-8.0	Silty Sand (SM), trace clay	0.8
TP-04	0.0-7.0	Silty Sand/Clayey Sand (SM/SC)	4.2
TP-05	0.0-7.5	Silty Sand/Clayey Sand (SM/SC)	4.2
TP-06	0.0-10.0	Silty Clay (CL)	2.8
TP-07	0.0-9.0	Sandy Clay (CL)	5.6
TP-08	0.0-5.0	Silty Sand (SM), trace clay	4.2

Expansion Index

Two representative bulk sample was tested to evaluate the expansion potential of materials encountered in the stockpiled fill soils in accordance with ASTM D4829 Standard. The test result is presented in the following table.

Table No. A-3, Expansion Index Test Result

Test Pit No.	Depth feet)	Soil Description	Expansion Index	Expansion Potential
TP-06	0.0-10.0	Silty Clay (CL)	79	Medium
TP-07	0.0-9.0	Sandy Clay (CL)	53	Medium

Soil Corrosivity

Four representative soil sample was tested to determine minimum electrical resistivity, pH, and chemical content, including soluble sulfate and chloride concentrations. The purpose of this test was to determine the corrosion potential of sites soils when placed in contact with common construction materials. The test was performed by AP Engineering and Testing, Inc. (Pomona, CA) in accordance with Caltrans Test Methods 643, 422 and 417. Test result is presented in the following table.

Table No. A-4, Soil Corrosivity Test Result

Boring No.	Depth (feet)	pH	Soluble Sulfates (CA 417) (ppm)	Soluble Chlorides (CA 422) (ppm)	Min. Resistivity (CA 643) (Ohm-cm)
TP-01	0.0-7.0	8.6	289	48	1,031
TP-04	0.0-7.0	8.3	2,073	95	233
TP-05	0.0-7.5	8.6	2,759	146	300
TP-07	0.0-9.0	8.1	3,872	227	322

APPENDIX F

PHASE I AND PHASE II ENVIRONMENTAL SITE ASSESSMENTS

APPENDIX F1

PHASE I ENVIRONMENTAL SITE ASSESSMENT

CONVERSE CONSULTANTS

Phase I Environmental Site Assessment Report

60-Acre Property in Ontario
Euclid Avenue and Schaefer Avenue
Ontario, California

Converse Project No. 21-16-121-01
July 29, 2021

Prepared For:

RCCD, Inc.
8101 East Kaiser Boulevard, Suite 140
Anaheim Hills, California 92808

Prepared By:

Converse Consultants
8333 Foothill Boulevard, Suite 104
Rancho Cucamonga, California 91730

Converse Consultants
Geotechnical Engineering, Environmental and Groundwater Science, Inspection and Testing Services

July 29, 2021

Mr. Jason Lee
RCCD, Inc.
8101 East Kaiser Boulevard, Suite 140
Anaheim Hills, California 92808

Subject: PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT
60-Acre Property in Ontario
Euclid Avenue and Schaefer Avenue
Ontario, California
Converse Project No. 21-16-121-01

Mr. Lee:

Converse Consultants (Converse) is pleased to submit the attached report that summarizes the activities and the results of a Phase I Environmental Site Assessment (Phase I ESA) that was conducted at the referenced property.

A summary of the assessment is presented in the Executive Summary, as well as in Sections 8.0, 9.0, and 10.0 of the report. Recognized Environmental Conditions were identified during this assessment. Recommendations for additional assessment were made.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact Norman Eke at (626) 930-1261.

CONVERSE CONSULTANTS

Kaspar Wittlinger
Sr. Staff Environmental Scientist

Laura Tanaka
Principal Environmental Scientist

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Telephone: 636-930-1200 Facsimile: www.converseconsultants.com

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Executive Summary

The following is an Executive Summary of the Phase I Environmental Site Assessment (Phase I ESA) that was conducted by Converse Consultants (Converse). Please refer to the appropriate sections of the report for a complete discussion of these issues. In the event of a conflict between this Executive Summary and the report, or an omission in the Executive Summary, the report shall prevail.

This report presents the results of the Converse Phase I ESA performed for 60-acres of agricultural land at the southeast corner of Euclid Avenue and Schaefer Avenue in the City of Ontario, San Bernardino County, California, referred to as the Property in this report. Converse was retained by RCCD, Inc. to conduct this Phase I ESA. Our study has been conducted in order to identify, to the extent practical within the scope of an ESA, Recognized Environmental Conditions (RECs) in connection with the Property.

Converse has compiled and reviewed information that was obtained from interviews, document research, and on-site and area reconnaissance to identify potential environmental conditions at the Property in conformance with the ASTM Standard E: 1527-13 Environmental Site Assessment Standard Practice (ASTM Standard: E1527-13). This Phase I ESA was conducted during the period of June 22, 2021 to July 29, 2021.

This assessment has revealed no evidence of RECs in connection with the Property except for the following:

- Agricultural use from as early as 1938 is a REC due to potential residual contamination from agricultural chemical use.
- On-site dairy operations and associated chemicals, manure and equipment from as early as 1946 are RECs.

Based on this assessment, Converse has the following recommendations:

- Soil sampling over the Property. Areas to be assessed should include the farmland, catch basins, maintenance areas, AST (and drain underneath AST) & UST areas, and livestock/manure areas.
- Containers of hazardous materials, equipment, and tires should be removed from the Property prior to acquisition. If these items are left on-site, they will need to be disposed of in accordance to applicable regulations.
- A methane assessment in accordance with the City of Ontario requirements should be conducted.

Report Section		NFA	REC	CREC	HREC	OEC	Recommended Action/Comments
3.0	**User Provided Information & Responsibilities**	X					

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Report Section		NFA	REC	CREC	HREC	OEC	Recommended Action/Comments
5.2.5	**Summary of Historical Property Use**		X				Agricultural, use from as early as 1938 is a REC due to potential residual contamination from agricultural chemicals. On-site dairy operations, including chemical use, equipment use, and manure from as early as 1946 are RECs.
5.2.6	**Summary of Past Uses of Adjoining Properties**	X					
5.2.7	**Summary of Past Uses of the Surrounding Area**	X					
5.3.1	**Property Listings**	X					Closed UST listing
5.3.2	**Adjoining Properties**	X					
5.3.3	**Other Off-site Locations of Concern**	X					
5.4	**Additional Environmental Record Sources**					X	A methane assessment according to City of Ontario building requirements is recommended.
6.3	**Interior Observations of Property**	X					
6.4	**Exterior Observations of Property**					X	The five (5) or six (6) on-site septic tanks on-site. Septic tanks will need be removed during redevelopment activities.
6.5	**Current Uses of Adjoining Properties**	X					
6.6	**Current Uses of Surrounding Area**	X					

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Report Section		NFA	REC	CREC	HREC	OEC	Recommended Action/Comments
7.0	**Interviews**	X					According to the owner representative, Mr. Gary R. Phillips, up to six (6) septic tanks are located on the Property.

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1.0 Introduction

1.1 Purpose and Scope of Services

This report presents the results of the Converse Consultants (Converse) Phase I Environmental Site Assessment (ESA) performed for 60-acres of agricultural land generally located at the southeast corner of Euclid Avenue and Schaefer Avenue in the City of Ontario, San Bernardino County, California, referred to as the Property in this report. Converse was retained by RCCD, Inc. to conduct this Phase I ESA. Our study has been conducted in order to identify, to the extent practical, Recognized Environmental Conditions (RECs) in connection with the Property. The term Recognized Environmental Conditions is defined in Section 1.1.1 of the American Society of Testing and Materials (ASTM) Standard Practice as the presence or likely presence of any hazardous substances or petroleum products in, at or on a property due to any release to the environment; under conditions indicative of a release to the environment; or under conditions that pose a material threat of a future release to the environment.

This Phase I ESA was completed in accordance with our proposal dated March 30, 2021. Our work consisted of the following and was completed in general conformance with the scope and limitations of the ASTM Practice E1527-13 and complies with standards and practices set forth in 40 Code of Federal Regulations (CFR) Part 312 for AAI.

- Interviews with the Property owner representatives
- Property and vicinity reconnaissance
- Review of regulatory agency records
- Description of physical setting
- Historical review
- Interviews with public agency personnel
- Preparation of this report

1.2 Non-Scope Considerations

There are a number of non-scope issues which are sometimes assessed concurrently with a Phase I ESA. Unless specifically agreed in the contract proposal documents, these non-scope considerations are not included as part of the Phase I ESA. Examples of non-scope issues include:

- Asbestos-containing Building Materials
- Biological Agents
- Cultural & Historic Resources
- Diffuse Anthropogenic Pollution
- Ecological Resources
- Emerging Chemicals/Contaminates
- Endangered Species
- Health & Safety
- Indoor Air Quality
- Industrial Hygiene
- Lead-base Paint
- Lead in Drinking Water
- Mold
- Non-liquid Polychlorinated Biphenyls
- Polyfluoroalkyl Substances
- Radon
- Regulatory Compliance
- Wetlands

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No Non-Scope issues were addressed in this report.

1.3 Significant Assumptions

No assumptions were made for this assessment that need to be noted as significant.

1.4 Limitations and Expectations

The following limitations and exceptions were encountered during the course of this assessment:

- There was no access to various storage containers for dairy equipment throughout the central and northeastern portions of the Property, within the Art Venegas Dairy tenant space (13835 Euclid Avenue).
- Converse did not access the residential structures at 13835 Euclid Avenue (Art Venegas Dairy) or the Drake Family Farm (7235, 7255 & 7277 Schaefer Avenue).
- Former storage/maintenance structures with fire damage adjacent to the Venegas milking barn were not accessed, but limited views of the interior were obtainable.
- A vacant former dairy facility on the northeastern portion of the Property (Photograph No. 33, Drake tenant space) was not accessible.
- Due to vegetative cover, observation of the ground surface was limited underneath dairy equipment/vehicles, including discarded vehicles, observed throughout storage areas on the central and northeastern Property portions within the Venegas Dairy tenant space. Please refer to Figure 3 for the general location of equipment storage areas.

1.5 Special Terms and Conditions

No special terms or conditions were identified by the User.

1.6 Reliance

This report is for the sole benefit and exclusive use of RCCD, Inc. in accordance with the terms and conditions under which these services have been provided. Its preparation has been in accordance with generally accepted environmental practices. No other warranty, either express or implied, is made. The Scope of Services associated with the report was designed solely in accordance with the objectives, schedule, budget, and risk-management preferences of RCCD, Inc.

This report should not be regarded as a guarantee that no further contamination, beyond that which could be detected within the scope of this assessment, is present at the Property. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this assessment. It is not possible to absolutely confirm that no hazardous materials and/or substances exist at the Property. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the property at the time of the assessment. Also, events may occur after the Property visit, which may result in contamination of the Property. Additional information, which

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was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented.

Any reliance on this report by Third Parties shall be at the Third Party's sole risk. Should RCCD, Inc. wish to identify any additional relying parties not previously identified, a completed Application of Authorization to Use (see Appendix A of this report) must be submitted to Converse Consultants.

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2.0 Property Description

Item	Comment
Current Use(s) of the Property	The Property is owned by George R. Phillips of The John Te Velde Irrevocable Trust; Zwaantina Te Velde and George R. Phillips, Co Trustees, under Survivor's Trust, under The Harm and Zwaantina Te Velde Trust; and Artevel of California, LLC. It is operated as two (2) dairy farms and a nursery (tenants). A Property location map, and field generated Property and Property detail plans are provided in Appendix B. Pertinent Property photographs are provided in Appendix C.
Location and Legal Description	The Property is located at the southeast corner of Euclid Avenue and Schaefer Avenue, in the City of Ontario, California. The Property is located approximately 1.8-miles south of the California State Routes 60/83 interchange. The Property consists of 11 parcels and is approximately 60-acres. The San Bernardino County Assessor's Parcel Numbers are: Business Park APNs: APN 1053-071-01: No address APN 1053-071-02: 13813 and 13835 Euclid Avenue APN 1053-071-03: No address APN 1053-071-04: No address APN 1053-081-01: 7235, 7255, 7275, & 7277 Schaefer Ave. APN 1053-081-03: 7271 Schaefer Avenue APN: 1053-081-04: No address APN: 1053-211-01: No address APN:1053-211-02: No address Mixed- Use APN: APN: 1053-281-08: No address All of the above parcels and addresses were

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Item	Comment
	assessed/researched herein. The legal description for the Property is as follows: LOTS 1, 2, 3, 16, 17, 18, 20, 21 AND 35 OF SECTION 18, TOWNSHIP 2 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO MAP OF SUBDIVISION OF PART OF RANCHO SANTA ANA DEL CHINO, AS PER PLAT RECORDED IN BOOK 6, PAGE 15, OF MAPS, RECORDS OF SAID COUNTY. EXCEPTING THEREFROM ANY PORTION LYING WITHIN EUCLID AVENUE 200 FEET WIDE, AS DESCRIBED IN SUPERIOR COURT CASE NO. 139648 AND CASE NO. 150425, A CERTIFIED COPY OF WHICH WAS RECORDED SEPTEMBER 13, 1972 AS INSTRUMENT NO. 614 IN BOOK 8019, PAGE 930 OF OFFICIAL RECORDS OF THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA.
Zoning Information	According to the City of Ontario, Planning Department, the zoning for the Property is AG, which is defined as Agricultural.
Property Characteristics	The Property is an irregular-shaped lot of agricultural land consisting of approximately 60 acres. The Property is generally level. Please refer to Figure 2, Property Map, and Figure 3, Property Detail, for the general locations of the following occupant spaces and their uses. A goat cheese dairy operation occupies the northeastern portion of the Property along Schaefer Avenue (Drake Farm at 7235, 7255, and 7277 Schaefer Avenue). Pertinent structures include a milking barn, fenced areas with shade canopies for goat keeping (animals present), an administrative/maintenance building, and storage barns. The eastern portion of the Drakes' tenant space, near the northeastern Property corner, also includes residential structures such as trailers and a single-family home. A vacant former dairy building adjoins the

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Item	Comment
	residential structures. Photographs No. 32 through 46 depict Drake Family Farm. Approximately three (3) acres of the western portion of the Property along Euclid Avenue are occupied by Coco's Nursery (no address; western portion of APNs 1053-071-01 and 1053-071-02), which consists of irrigated potted plants, stockpiles of potting soil, and storage sheds. The remaining northern, northwestern, southern, eastern, and western portions of the Property are occupied by Art Venegas Dairy (13835 Euclid Avenue; tenant). This tenant space encompasses plowed farmland near the intersection of Euclid and Schaefer Avenues on the northwest, and on the south towards Edison Avenue. A catch basin for runoff collection is located on the southwestern Property corner. A system of catch basins is also located on the eastern Property portion, south of Drakes' farm. The central portion of the Art Venegas Dairy includes fenced areas with shade canopies for cows (animals present), a maintenance shop area, and storage areas for farm/dairy equipment/vehicles. The Venegas' milking barn and associated residential and storage structures are located on the central-west portion of the Property along Euclid Avenue. All structures within the Venegas' complex are associated with 13835 Euclid Avenue, except for a maintenance shed for Southern California Edison (SCE) pole-mounted transformer equipment (13813 Euclid Avenue) adjacent to the milking barn. Photographs No. 1 through 26, No. 29, and No. 48 depict the Art Venegas Dairy tenant space.
Description of Property Structure(s)	Observed building materials included exterior stucco, corrugated sheet metal, plaster, painted drywall, steel, concrete masonry unit, brick, and wood. Several residential/storage structures on the western Property portion (Art Venegas Dairy) were inaccessible due to earthquake/structural and fire damage.

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Item	Comment
	Utility-owned (SCE) pole-mounted transformer equipment and a pertinent maintenance shed (13813 Euclid Avenue) were located adjacent to the Venegas' milk barn on the central-west portion of the Property. Utility-owned (AT&T) antenna equipment, southeast of the transformers, was located within the Coco's Nursery tenant space on the western portion of the Property.

The following services were present at the Property at the time of the assessment.

Item	Comments
Electricity:	SCE
Gas:	Not provided.
Potable Water:	Two on-site water wells (one per dairy operation). A third well, located near the northeastern Property corner, was decommissioned (date/reason unknown).
Sanitary Sewer:	Property has five (5) to six (6) septic tanks.
Heating, Ventilation, Air Conditioning (HVAC):	Wall-mounted units in residential/administrative spaces, and chiller equipment inside milk production areas.
Solid Waste:	City of Ontario, Integrated Waste Department

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3.0 User Provided Information & Responsibilities

3.1 Requested Documents and Information

The ASTM E1527-13 specifies that the User, RCCD, Inc., provide any helpful documents that may be available as listed below.

- Environmental site assessment or environmental compliance audit reports
- Environmental permits or hazardous waste generator notices/reports
- Registrations for aboveground and underground storage tanks
- Septic systems, oil wells, or water wells
- Registrations for underground injection systems
- Safety Data Sheets; Community Right to Know Plans; Safety, Preparedness and Prevention Plans; or Spill Protection Countermeasures and Control Plans
- Reports regarding hydrologic conditions on the Property or surrounding area
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the Property or relating to environmental liens encumbering the Property.
- Hazardous waste generator notices or reports
- Geotechnical studies
- Risk assessments
- Recorded Activity Use Limitations (AULs)
- Proceedings regarding hazardous substances and petroleum products including any pending, threatened or past: litigation; administrative proceedings; or notices from any governmental entity regarding possible violations of environmental laws or other possible liability related to hazardous substances or petroleum products.

Mr. Jason Lee of RCCD Inc. provided a plot plan outlining the Property parcels and associated easements for public utilities (central and southern portions of the Property), as well as for roads (northeastern Property portion).

The provided amended preliminary title report, dated May 21, 2021, identified the Property owners and legal description/assessor's parcel maps. Several easements were provided for SCE, and a separate easement for pipelines and aqueducts (1970), the location of which was not disclosed. Liens were recorded in favor of the City of Ontario. According to Mr. Lee, these were recorded regarding weed abatement on portions of the Property.

3.2 User Provided Information

Section 6 of ASTM E1527-13 outlines specific User's responsibilities. This information will help identify the possibility of RECs in connection with the Property. The ASTM Standard provides a questionnaire to help the User to comply with the statutory requirements to perform tasks which would help identify RECs. Converse included the questionnaire as Attachment A to our proposal. In general, any Users should make Converse aware of information they have regarding the following:

- Environmental Cleanup Liens filed or recorded against the Property
- Activity and land use limitations that are in place on the Property or have been filed or recorded in a registry.
- Specialized knowledge or experience of the person seeking to qualify for the Legal Liability Protections (LLP)
- Relationship of the purchase price to fair market value of the Property if it were not contaminated
- Commonly known or reasonably ascertainable information about the Property

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- The degree or obviousness of the presence or likely presence of contamination at the Property, and the ability to detect this contamination by appropriate investigation.

The following information was requested from the User.

3.2.1 Environmental Cleanup Liens

The User had no information regarding environmental cleanup liens or title records.

From review of the amended preliminary title report provided by the User, liens were recorded in favor of the City of Ontario. Per the User, these were related to weed abatement on portions of the Property.

3.2.2 Activity and Use Limitations

The User did not have any information indicating they were aware of any AULs.

3.2.3 Specialized Knowledge or Experience

The User did not have any information indicating they had specialized knowledge or experience related to the Property or nearby property.

3.2.4 Reason for Significantly Lower Purchase Price

Converse has no information regarding the purchase price of the Property or comparable properties. The User has not indicated to Converse that there is any conclusion that there was a lower purchase price because of known or suspected contamination at the Property.

3.2.5 Commonly Known or Reasonably Ascertainable Information

The User did not have any information about: past uses; specific chemicals at the Property; past spills; environmental cleanup or other reasonably ascertainable information regarding the Property.

3.2.6 Obviousness of Contamination

The User did not have any information based on their knowledge or experience that would be obvious indicators of contamination on the Property.

Unless specifically stated otherwise in the Scope of Services, the purpose of this Phase I ESA was to qualify for the landowner liability protections to CERCLA Liability as described in ASTM E1527-13.

Business risk unrelated to the CERCLA innocent landowners defense are only assessed as specifically agreed in the Scope of Services and discussed in Section 12.0, Additional Non-Scope Services, of this report.

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3.3 Continuing Obligations

In order to assert a LLP, the User must satisfy a number of statutory requirements that are generally referred to as Continuing Obligations, which are outside the Scope of Services of the Phase I ESA. Examples of Continuing Obligations include providing legally required notices, stopping continuing releases and complying with land use restrictions. Failure to comply with these and other statutory post-acquisition requirements will jeopardize liability protection.

It is the responsibility of the User to comply with the Continuing Obligations requirements of ASTM E1527-13 and AAI. Anyone seeking LLP protections should take independent action beyond this Phase I ESA to perfect their position.

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4.0 Owner Provided Information

The ASTM E1527-13 specifies that the Property owner and the Key Site Manager provide any helpful documents that may be available as listed below.

- Environmental site assessment or environmental compliance audit reports
- Environmental permits or hazardous waste generator notices/reports
- Registrations for aboveground and underground storage tanks
- Septic systems, oil wells, or water wells
- Registrations for underground injection systems
- Safety Data Sheets; Community Right to Know Plans; Safety, Preparedness and Prevention Plans; or Spill Protection Countermeasures and Control Plans
- Reports regarding hydrologic conditions on the Property or surrounding area
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws with respect to the Property or relating to environmental liens encumbering the Property.
- Hazardous waste generator notices or reports
- Geotechnical studies
- Risk assessments
- Recorded AULs
- Proceedings regarding hazardous substances and petroleum products including any pending, threatened or past: litigation; administrative proceedings; or notices from any governmental entity regarding possible violations of environmental laws or other possible liability related to hazardous substances or petroleum products.

The owner representative, Mr. Gary R. Phillips of Phillips Law Partnership LLP, provided the following information:

- Underground Tank Closure Report dated September 7, 2011, and related documents, including inspection card, application for removal of underground storage tank (UST), fire department permit, Rule 1166 soil monitoring records, manifests, hazardous waste tank closure certification, certificate of destruction, plot plan, lab results, and chain of custody record. A 550-gallon diesel UST was removed in August 2011 from the former Summerhill Dairy operation on the northeastern portion the Property (7255 Schaefer Avenue; currently Drake Family Farm). The tank had been discovered during a San Bernardino County Fire Department inspection. It was removed by Moine Bros. Removal activities included Volatile Organic Compound (VOC) monitoring, and proper offsite disposal of the tank components and derived rinsate under County of San Bernardino and City of Ontario Fire Department oversight. One (1) soil sample was taken approximately three-feet beneath the tank invert, approximately 12 feet below ground surface (bgs). The sample was non-detect for VOCs. Total Petroleum Hydrocarbons (TPH) were detected at 57 milligram per kilogram (mg/kg) in the C25-C40 range, and lead was detected at 12 mg/kg. These concentrations are below the Department of Toxic Substances Control (DTSC) Human Health Risk Assessment (HHRA) Note 3 (June 2020) recommended Screening Levels for residential soil, and below the Environmental Protection Agency (EPA) Regional Screening Levels (November 2020) for residential soil. Some of the documents estimated the tank capacity at 1,000-gallon; however, upon removal the tank was found to have a volume of 550-gallons. See Appendix H, Owner Provided Documents.

- 2019 AT&T Wireless facilities plans, regarding antenna equipment located on a Southern California Edison electric transmission line tower, which lies within the Coco's Nursery tenant space on the southwestern portion of the Property toward Euclid Avenue.

- 2019 Frontier Communications plans, regarding relocation of telecommunication conduits along the northwestern Property line on Euclid Avenue.

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- 2017 Southern California Edison plans, regarding installation of electric transmission conduits along the northwestern Property line on Euclid Avenue.

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5.0 Records Review

5.1 Physical Setting

Item	Comments
Physical Setting:	The Property is located approximately 700 to 720 feet above mean sea level with surface topography sloping towards the south (United States Geological Survey [USGS] Topographic Map, Ontario, California, 2012).
Geology:	The Property is underlain by alluvium, lake, playa, and terrace deposits; unconsolidated and semi-consolidated (Division of Mines and Geology, Geologic Map of California, 2010).
Groundwater:	According to the Chino Basin Watermaster Depth to Groundwater Contour Map, first groundwater at the Property was located between 125 to 150 feet bgs in July of 2016. According to the pertinent Groundwater Elevation Contour Map, the groundwater elevation was approximately 570 feet, and the direction of regional groundwater flow was to the south.
Potable Water Supply:	Potable water is supplied from on-site production wells. One (1) well is located on the central-west Property line near Euclid Avenue (Art Venegas Dairy), and one (1) well is located on the northeastern portion of the Property near Schaefer Avenue (Drake Family Farm). A third well, which has been decommissioned (date unknown), is located near the northeastern Property corner on Schaefer Avenue.

5.2 Historical Review

5.2.1 Aerial Photograph and Map Review

Available historical aerial photographs and maps, which were provided by Environmental Data Resources (EDR), were reviewed. A summary of the review is provided in the following table. Copies of the aerial photographs and maps are provided in Appendix D.

Sanborn Fire Insurance Maps were requested from EDR. According to EDR, there is no Sanborn map coverage of the Property.

Historical Summary			
Resource and Year	**Property**	**Adjoining Properties**	**General Vicinity**

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Resource and Year	Property	Adjoining Properties	General Vicinity
Topographic Maps: 1897 and 1900	Undeveloped. No structures indicated as being located on-site. The very southern end of the Property is not covered on the maps.	North adjacent land across the road undeveloped. South adjacent, and part of the east and west adjacent properties not covered. A road adjoins the Property on the north, and another road adjoins the Property on the west.	Scattered small structures, roads and railroads. Only northern vicinity covered.
Topographic Map: 1902	Southern portion of the Property undeveloped. Northern portion not shown.	Small structures are depicted west adjacent across the road and southwest adjacent. North adjoining land, and part of the east and west adjoining properties not covered.	Scattered small structures to the south and southwest. Northern vicinity not covered.
Topographic Map: 1903	No significant change from 1902 topo map. Southern portion of the Property not depicted.	No significant change from 1902 topo map. South adjacent, and part of the east and west adjacent properties not covered.	No significant change from 1902 topo map. Only northern vicinity covered.
Topographic Map: 1933	A total of four small structures are shown along the northeastern, southwestern, and western Property lines.	Small structures occupy property on the south, on the east, and on the west.	Scattered small developments throughout. Far eastern vicinity not covered.
Aerial Photograph: 1938	Agricultural. Related structures are depicted on the western and northeastern Property lines. An apparent power transmission line traverses the Property from	Agricultural land, including row crops and associated buildings.	Agricultural

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Resource and Year	Property	Adjoining Properties	General Vicinity
	east-northeast to west-southwest.		
Topographic Maps: 1941 and 1942	One structure indicated near the northeastern Property corner. Two structures shown on the western Property line. The 1941 topo map covers the south only, and 1942 topo map covers the north only.	Undeveloped/ residential. The 1941 topo map covers the south only, and 1942 topo map covers the north only.	Undeveloped/residential. The 1941 topo map covers the south only, and 1942 topo map covers the north only. Chino indicated to the southwest.
Topographic Map: 1944, 1947 Aerial Photographs: 1946, 1948 Topographic Maps: 1949 and 1950,1953, 1954	Developments on the western portion of the Property include areas for animals. The development on the northeast was reconfigured or buildings were removed. A second power transmission line is now distinguishable across the southern portion of the Property. The topo maps indicate no agricultural use.	Agricultural/residential. The topo maps indicate agricultural use north and south adjacent only.	Agricultural/residential. Cal-Aero Flight Academy to the far south on topo maps.
Aerial Photograph: 1953 Topographic Map: 1954	Agricultural. Agricultural use not indicated on topo map which does not cover the southern portion of the Property.	Agricultural/residential. South adjoining structures include two apparent tanks/silos. South adjoining properties not covered on topo map.	Agricultural. Southern general area not covered on topo map.
Aerial Photographs: 1959 and 1966	Additional shade canopies and corral areas noted, and an	Agricultural/residential/ commercial. Two additional tanks/silos	Agricultural/residential/commercial. Several dairy facilities noted throughout

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Resource and Year	Property	Adjoining Properties	General Vicinity
	apparent water tank inside the northeastern agricultural (dairy) operation.	noted on south adjoining property by 1966.	the general area. Potential gas station at southeast corner of next intersection to the southwest.
Topographic Map: 1973 Aerial Photograph: 1975 Topographic Maps: 1976 and 1981	The number of animal corrals on the Property increased significantly on the northeast and the west.	Agricultural uses with corrals are shown to the north and east. Commercial uses on the south and west include storage yards.	Dairy operations dominate the general agricultural area. Pertinent structures also noted on topo maps. The 1976 topo map does not cover the southern general area. Commercial uses to the northeast and southwest.
Aerial Photographs: 1985, 1989, 1990, 1994, and 2002	Agricultural (two dairy operations). Catch basins noted on the eastern and the western portions of the Property. Western portion of the Property not covered on 1989 aerial.	Agricultural/residential/ commercial. Western adjacent properties not covered on 1989 aerial.	Agricultural/residential/ commercial. Western portion of the vicinity not covered on 1989 aerial.
Aerial Photographs: 2006	Agricultural (two dairy operations and one nursery on the southwest). General current day configuration observed.	The south adjoining tanks/silos were removed.	Agricultural/residential/ commercial. Increased commercial development noted to the southwest.
Aerial Photographs: 2009, 2012 Topographic Map: 2012	Additional catch basin noted on the southwestern Property corner.	Agricultural/residential/ commercial.	Agricultural/residential/ commercial. Current day gas station noted to the southwest across Euclid Avenue.
Aerial Photographs: 2016	Agricultural	Agricultural/residential/ commercial.	Agricultural/residential/ commercial.

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5.2.2 Building Permit Review

Available building permits were reviewed at the City of Ontario, Department of Building & Safety. The following addresses/APNs comprising the Property were researched:

APN 1053-071-01: No address
APN 1053-071-02: 13813 and 13835 Euclid Avenue
APN 1053-071-03: No address
APN 1053-071-04: No address
APN 1053-081-01: 7235, 7255, 7275, and 7277 Schaefer Avenue
APN 1053-081-03: 7271 Schaefer Avenue
APN 1053-081-04: No address
APN 1053-211-01: No address
APN 1053-211-02: No address
APN 1053-281-08: No address

The department only had records on file for 13813 Euclid Avenue (Assessor's Parcel Number 1053-071-02):

Permits were issued in March of 2003 regarding electrical panels and a meter reset for electrical power to a water well pump (10 to 50 horsepower). The owner was noted as Martin Dairy. The electrical utility was noted as SCE.

5.2.3 City Directories

A city directory search was completed on the Property by EDR. The complete city directory is provided in Appendix D, Historical Research.

13813 South Euclid Avenue
The Property was identified with a residential listing in city directories published as early as 1965. Between 2003 and 2008, the Property was identified as residential listings.

13835 Euclid Avenue
Between 2003 and 2008, the Property was identified as residential listings, and as Coco's Nursery.

7255 Schaefer Avenue
In 1975, the Property was identified as Artevel Farms. Between 2003 and 2008, the Property was identified as residential listings.

The adjacent properties were not identified in the researched city directories.

5.2.4 Data Failure

Historical information regarding the Property indicated the Property was undeveloped land as early as 1897. Therefore, no historical data failure occurred during this assessment.

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5.2.5 Summary of Historical Property Use

Historically, as early as 1897 the Property was undeveloped land. From as early as 1933, structures were evident along the northeastern and western Property lines, which were associated with agricultural operations by 1938. Between 1946 and the present, the Property was used agriculturally, including one (1) dairy operation on the western portion of the Property, and another dairy operation on the northeastern portion of the Property. From as early as 2006, the current day nursery operation on the southwestern portion of the Property was noted as well.

5.2.6 Summary of Past Uses of Adjoining Properties

As early as 1897, the adjoining properties were undeveloped land. By 1902, apparent residential structures were noted on adjoining properties. From as early as 1938, agricultural uses were noted as well, including row crops. Commercial developments were noted as early as 1959. By 1975, most of the north and east adjoining land was occupied by dairy farms, and commercial uses were concentrated to the southwest and west. Commercial, as well as residential uses, remain to the west along Euclid Avenue until the present day, whereas north and east adjoining land remains for agricultural use. Part of this land is currently fallow/vacant.

5.2.7 Summary of Past Uses of the Surrounding Area

Residential uses were evident in the surrounding area from as early as 1897. Agricultural uses were noted as early as 1938. By 1959, commercial developments were also evident.

Large portions of the surrounding land remain for agricultural use through the present day.

5.3 Results of Environmental Records Sources Review

An EDR report of Standard Environmental Record Sources (Records) was prepared specifically for the Property. The search included queries to the following databases for cases within specified ASTM search distances. A copy of the database report is provided in Appendix E.

5.3.1 Property Listings

The Property was identified on the following databases in the EDR report.

Property Listings	
Site Name:	DRAKE FAMILY FARMS
Databases:	San Bern. Co. Permit, CERS
Address:	7255 SCHAEFER AVE

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Comments:	Underground Storage Tank (UST) inspection record noted a UST removed in 2011. Hazardous material handler permits included. Cited during San Bernardino County Fire Department inspections in 2014 to 2020, regarding business plan updates and hazardous material reporting.

Site Name:	ART VENEGAS DAIRY
Databases:	San Bern. Co. Permit, HWTS
Address:	13835 EUCLID AVE
Comments:	Conditionally Exempt Small Quantity Generator of hazardous waste (active) and hazardous materials handler (inactive).

Site Name:	ART VENEGAS DAIRY - EUCLID
Databases:	CERS HAZ WASTE, CERS, ENF, CIWQS, San Bern. Co. Permit
Address:	13835 EUCLID AVENUE
Comments:	Listed regarding stormwater runoff from a confined animal feeding facility. 13835 Euclid Avenue (western portion of the Property) listed regarding AT&T antenna equipment. 2014 to 2020 violations included a citation regarding a 275-gallon waste oil tote that was broken with contents exposed noted during a San Bernardino Fire Department inspection. Also issues regarding storage times of waste oil and hazardous material record keeping/labeling.

5.3.2 Adjoining Properties

The following adjoining properties were identified in the EDR report:

Adjoining Properties	
Site Name:	GERMANIA DAIRY CENTER
Databases:	SWEEPS UST, CA FID UST
Address:	14058 EUCLID AVE
Distance:	221
Direction:	SSW
Elevation:	Lower
Comments:	Three (3) active tanks listed in 1988. No release records. Referred in 1992.

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Site Name:	VETERINARIAN'S OUTLET
Databases:	San Bern. Co. Permit
Address:	14058 S EUCLID AVE B
Distance:	221
Direction:	SSW
Elevation:	Lower
Comments:	Inactive hazardous materials handler.

Site Name:	VETERINARIAN'S OUTLET
Databases:	HWTS, HAZNET, CORTESE, CERS
Address:	14058 EUCLID AVE
Distance:	221
Direction:	SSW
Elevation:	Lower
Comments:	Closed LUST Cleanup case. Oil-containing waste manifested in 1995.

Site Name:	VETERINARIAN'S OUTLET
Databases:	LUST, HIST CORTESE, CHMIRS, San Bern. Co. Permit, CERS
Address:	14058 EUCLID AVE
Distance:	221
Direction:	SSW
Elevation:	Lower
Comments:	Lust case closed in 1996 (soil case). Contaminated soil excavated (not tested for Methyl tert-butyl ether - MTBE). CHMIRS listing regarding a release of paints and potentially solvents during a fire. Runoff was contained by city staff. Regulatory compliance inspections conducted by San Bernardino County Fire Department.

Site Name:	VALLEY HAY COMPANY
Databases:	LUST, CERS HAZ WASTE, CORTESE, CERS TANKS, San Bern. Co. Permit, CERS
Address:	14042 S EUCLID AVE
Distance:	222
Direction:	SSW
Elevation:	Lower

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Comments:	LUST case closed in 1996 (soil case). 2014 to 2018 violations including fuel dispenser system repair/maintenance and housekeeping practices regarding car washing in UST area. Regulatory compliance inspections by San Bernardino County Fire Department.

Site Name:	EZH INC
Databases:	CERS HAZ WASTE, HAZNET, CERS
Address:	14042 EUCLID AVE
Distance:	222
Direction:	SSW
Elevation:	Lower
Comments:	2018/2019 manifests included surplus organics. Cited regarding hazardous material record keeping/labeling.

Site Name:	ROBERT FORD TRUCKING
Databases:	UST
Address:	14042 EUCLID AVE
Distance:	222
Direction:	SSW
Elevation:	Lower
Comments:	Permitting agency is San Bernardino County.

Site Name:	VALLEY HAY COMPANY
Databases:	LUST, San Bern. Co. Permit, HIST CORTESE
Address:	14042 EUCLID AVE
Distance:	222
Direction:	SSW
Elevation:	Lower
Comments:	LUST case (soil) closed in 1996 (not tested for Methyl tert-butyl ether - MTBE).

Site Name:	ROBERT FORD TRUCKING
Databases:	UST
Address:	14042 S EUCLID AVE
Distance:	222
Direction:	SSW
Elevation:	Lower
Comments:	Permitting agency is San Bernardino County Fire Department.

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Site Name:	EZH, INC
Databases:	RCRA NonGen / NLR
Address:	14042 EUCLID AVE
Distance:	222
Direction:	SSW
Elevation:	Lower
Comments:	No violations.

Site Name:	CARL'S JR #458
Databases:	San Bern. Co. Permit
Address:	7069 SCHAEFER
Distance:	302
Direction:	West
Elevation:	Lower
Comments:	Inactive

Adjoining properties' listings regarding Leaking Underground Storage Tank cases are not RECs based on regulatory closure, distance from the Property, and media (soil) affected.

Listings regarding hazardous material use/hazardous waste generation are not RECs based on no significant release records, offsite disposal and regulatory compliance inspections.

5.3.3 Other Off-site Locations of Concern

Other off-site locations of concern identified by EDR within a maximum one-mile radius from the Property included registered UST sites, LUST sites, hazardous waste generators, permitted hazardous materials handlers, and FINDS, ECHO, HAZNET, HWTS, HIST CORTESE, CERS, CERS HAZ WASTE, CERS TANKS, HIST UST, SWEEPS UST, CA FID UST, SWF/LF, ENF, CIWQS, DRYCLEANERS and ENVIROSTOR database listings.

The potential for environmental concern to the Property from these off-site locations appears to be low due to one or more of the following: type of regulatory listing; type of resource (soil) affected, location with respect to the direction of regional groundwater, distance from the Property; status of the case; and/or regulatory closure.

5.3.4 Orphan Listings

The EDR database report identified seven (7) orphan listings. The locations of sites that were identified by address were found to be in the general vicinity of the Property; however, due to distance, location with respect to the direction of regional groundwater, and/or type of listing were determined to have a low potential for environmental concern to the Property.

Other orphan sites were identified only by street name. These street names were found in the general vicinity of the Property; however, the specific site locations could not be determined. These orphan sites appeared to have a low potential for

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environmental impact to the Property due to one or more of the following: type of regulatory listing; estimated distance from the Property; remedial efforts being directed by a regulatory agency; and/or potential responsible parties have been identified.

5.4 Additional Environmental Record Sources

The following addresses were researched for the Property.

- 13813 and 13835 Euclid Avenue
- 7235, 7255, 7271, 7275 and 7277 Schaefer Avenue

Federal Agencies

Source	Comments
U.S. Department of Transportation, Pipeline and Hazardous Material Safety Administration (PHMSA)	The PHMSA online mapping system for gas transmission pipelines and hazardous liquid pipelines on the Property or adjacent properties was reviewed (https://www.npms.phmsa.dot.gov/PublicViewer/). No pipelines were identified on or adjoining the Property.

State Agencies

Source	Comments
California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control (DTSC)	No information regarding the Property was on file with DTSC. The Envirostor website (http://www.envirostor.dtsc.ca.gov/public/) was reviewed for information, and the Property was not listed in the database.
Cal/EPA, Regional Water Quality Control Board (RWQCB)	The following information was on file with the RWQCB regarding 13835 Euclid Avenue (Art Venegas Dairy). All other addresses/APNs associated with the Property yielded no search results. May 2010 Waste Discharge Requirements for Art Venegas Dairy - The document confirmed the acceptance of the facility's Notice of Intent and Engineered Waste Management Plan (EWMP). Annual Reports of Animal Waste Discharge (2012 to 2019) - Approximately 200 to 300 animals, approximately 40 to 300 tons of manure stockpiled on-site annually, and approximately 350 to 750 tons of manure hauled offsite annually were noted, as well as two (2) milkings per day. Approximately 10 to 40 acres of cropland (alfalfa, bermuda grass, pumpkins and oats) on-site were indicated as the location of

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Source	Comments
	manure application. The cropland was planted once per year. No discharge incidents were reported regarding Concentrated Animal Feeding Operation (CAFO) stormwater management. The pertinent manure manifests were provided for each year. April 2012 correspondence regarding a violation of the California Water Code (CWC) by Art Venegas Dairy - Payment options were outlined for penalties due to lateness of the Annual Waste Discharge report. 2014 to 2016 inspection reports by the Santa Ana Regional Water Quality Control Board (RWQCB) - The routine, non-sampling inspections noted no violations. The overall rating of the Venegas facility was noted as satisfactory. Three (3) to five (5) inches of corral manure and several large manure piles were observed. The catch basin/pasture area maintenance was evaluated as adequate, and the housekeeping as marginal. May 2019 Notice of Intent regarding compliance with the General Permit to Discharge Wastes from Concentrated Animal Feeding Operations (CAFO) by Art Venegas. The document indicated that the 60-acres of the Property include 15 acres of corrals, 25 acres of cropland, and 20 acres of disposal/pasture. The pertinent discharge authorization was issued on July 15, 2019. July 2019 inspection report by the Santa Ana Regional Water Quality Control Board (RWQCB) - Noted issues included manure excess inside the corrals and additional manure stockpiled outside the corrals. Remains of deceased cows were noted at one stockpile location. The Geotracker website (http://geotracker.waterboards.ca.gov/) was reviewed for information, and the Property was not listed in the database.
California Department of Conservation, California Department of Conservation (DOC), Geologic Energy	Converse reviewed the DOC CalGEM Online Well Finder (https://www.conservation.ca.gov/calgem/Pages/Wellfinder.aspx). According to the website, no oil or gas wells are located on or adjoining the Property. The Property is not located within an oil field.

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Source	Comments
Management Division (CalGEM)	

Local Agencies

Source	Comments
South Coast Air Quality Management District (SCAQMD)	The following document was on file with SCAQMD. June 2020 Facility Equipment List Report for Tony Martin Dairy at 13813 Euclid Avenue - Applications for Agop's Emergency Internal Combustion Engine (50 to 500 horsepower) and for Agop's Dairy were cancelled due to non-payment. The facility was noted as out of business.
San Bernardino County Fire Protection District (CUPA)	In addition to the documentation for the August 2011, 550-gallon diesel UST removal outlined in Section 4.0 (Owner Provided Information), the following documents were on file with the County. 2020 hazardous materials inventory for Drake Family Farms at 7255 Schaefer Avenue - Noted chemicals included alkaline cleaner (30 gallons), bleach (110 gallons), and phosphorous/nitric acid (30 gallons). Associated 2011 to 2020 inspections noted no hazardous wastes. Citations included overdue business plan reviews. Certified Unified Protection Agency (CUPA) hazardous materials permits (1-3 chemicals) were issued between 2012 and 2015. A former occupant at 7255 Schaefer Avenue, Summerhill Dairy, was noted with hazardous material permits between 2009 and 2011. In addition to the 550-gallon UST removed from this facility in 2011, fire department inspections in May 2007 also noted a 1,000-gallon diesel aboveground storage tank (AST) at the southwest end of the facility's yard (northeastern portion of the Property). Another AST (500-gallon diesel) was observed during the same May 2007 inspection at the northwest end of the facility's yard. No further documentation regarding these two (2) ASTs was available. Converse did not observe any fuel ASTs during the July 2, 2021 reconnaissance. 2020 hazardous material inventory for Art Venegas Dairy (13835 Euclid Avenue) - Noted chemicals included two (2), 275-gallon totes of waste oil; two (2), 55-gallon drums of hydraulic oil; one (1), 55-gallon drum of teat dip; and one (1), 55-gallon drum of enzyme cleaner. Citations included record keeping/hazardous waste labeling violations and

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Source	Comments
	business plan review requirements. Records for the same address were on file regarding on-site AT&T antenna equipment. The pertinent inventory identified 12 lead acid batteries stored at the facility inside the Coco's Nursery tenant space on the southwestern portion of the Property.
Methane	The Property will need a methane assessment prior to redevelopment according to the City of Ontario, Building Department requirements. A copy of the City's requirements are appended to this report.

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6.0 Property Reconnaissance

6.1 Methodology

On July 2, 2021 Converse visited the Property to evaluate present use and to identify observable environmental conditions at the Property. Our methodology involved walking the perimeters, center lines, and accessible interior areas of the buildings while noting observed evidence of present and potential environmental concerns.

Field-generated maps are provided in Appendix B. Pertinent Property photographs are provided in Appendix C.

6.2 Limiting Conditions

Converse's findings are based on the Property conditions observed on July 2, 2021.

The following limitation was encountered during the reconnaissance:

- There was no access to various storage containers for dairy equipment throughout the central and northeastern portions of the Property, within the Art Venegas Dairy tenant space (13835 Euclid Avenue).
- Converse did not access the residential structures at 13835 Euclid Avenue (Art Venegas Dairy) or the Drake Family Farm (7235, 7255 & 7277 Schaefer Avenue).
- Former storage/maintenance structures with fire damage adjacent to the Venegas milking barn were not accessed, but limited views of the interior were obtainable.
- A vacant former dairy facility on the northeastern portion of the Property was not accessible.
- Due to vegetative cover, observation of the ground surface was limited underneath dairy equipment/vehicles, including discarded vehicles, observed throughout storage areas on the central and northeastern Property portions within the Venegas Dairy tenant space.

6.3 Interior Observations of Property

During our Property visit, Converse made the following observations of the interior of the Property's building(s):

Interior Observations of Property		
Item or Condition	**Observed Evidence?**	**Comments**
Hazardous Substances & Petroleum Products:	Yes	Three (3), 55-gallon drums of alkaline and acid cleaners were observed inside the hazardous materials storage room of the Drakes' Farm milking barn at 7255 Schaefer Avenue on the northeastern portion of the Property. Corrosion and de minimis

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Item or Condition	Observed Evidence?	Comments
		staining was evident throughout the room (Photograph No. 43). A nearby storage shed for livestock feed supplements also contained a compressed gas cylinder of argon for welding. Inside the farm's maintenance shop, five (5) bags of water softener salt and several one-gallon cans of pains and sealants were stored. A wooden cage inside the shop contained four (4), three-gallon, and two (2), one-gallon containers of gasoline and diesel fuel, as well as several small containers of two-stroke engine additives. Inside the Venegas Farm's milking barn at 13835 Euclid Avenue on the western portion of the Property on Euclid Avenue, Converse observed two (2), 50-pound bags of copper sulfate and a 10-gallon container of sanitizing teat dip. The barn's electrical/compressor room contained a small container of Freon 134a refrigerant. One (1), 55-gallon drum of acid cleaner, a 10-gallon container of enzyme cleaner, and a five-gallon bucket of medicated skin treatment product for cows were inside an adjacent work room. De minimis floor/wall staining noted (Photograph No. 3).
Storage Tanks & Related Equipment:	No	
Odors:	No	
Standing Surface Water or Other Pools of Liquid:	No	
Drums & Other Containers of Hazardous Substances, Petroleum Products, or Other Unidentified Contents:	Yes	See Hazardous Materials & Petroleum Products above.
Transformers or Equipment containing Polychlorinated Biphenyls (PCBs):	Yes	The Venegas' milk barn electrical room contained one dry-type transformer.

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Item or Condition	Observed Evidence?	Comments
Heating/Cooling System:	Yes	Wall-mounted air conditioning units noted in residential spaces throughout. Chiller equipment associated with milk production areas.
Stains or Corrosion on Floors, Walls, or Ceilings:	Yes	De minimis corrosion/staining inside respective hazardous material storage rooms. Please see Hazardous Materials & Petroleum Products above.
Drains and Sumps:	Yes	Several floor/trench drains were observed throughout the two (2) on-site dairies' milking barns.

In addition to above items, Converse also observed the following:

An operations shed associated with SCE transformer equipment on the western portion of the Property (13813 Euclid Avenue) contained electrical and compressor equipment. No leaks/stains were observed.

Observed milking barn equipment included electrical water heaters, milk collection/pasteurizing tanks, compressors and other refrigeration components, air compressors for suction and other milking apparatuses, and valve equipment associated with washing stations.

Inside vacant storage/maintenance structures adjacent to the Venegas' milk barn, which were inaccessible due to earthquake/fire damage, maintenance spare parts, dairy hardware, filters and compressor equipment were observed through window openings.

A former AT&T communications room for electrical components was located north adjoining the Venegas' farm structures (northwestern portion of the Property).

Hydroponic nursery components were stored inside a room adjoining the Drakes' maintenance shop on the northeastern portion of the Property. A nearby vacant former dairy facility within the Drake tenant space (former owner/occupant unknown) contained two (2) milk collection/pasteurizing tanks inside a room on the north which were observed through a window. The facility was inaccessible.

6.4 Exterior Observations of Property

During our Property visit, Converse made the following observations of the exterior of the Property:

Exterior Observations		
Item or Condition	**Observed Evidence?**	**Comments**
Hazardous Substances & Petroleum Products:	Yes	Farm equipment/vehicles throughout the maintenance shop area on the central portion of the Property (Art Venegas Dairy) included gardening equipment, compressors, and tractors.

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Item or Condition	Observed Evidence?	Comments
		Approximately 80 used tires were stored on a nearby rack. Converse observed multiple one to five-gallon containers of vehicle maintenance fluid containers. A total of approximately 35 empty, 55-gallon poly drums, labeled as disinfectants/sanitizing liquids were noted throughout the area. Per Mr. Venegas, the drums are cut open to store/handle brewery (malt) waste which is used as supplementary cow food. A wood pallet held 14 car batteries. Adjacent to the pallet an open five-gallon bucket with waste oil was noted. The maintenance shop area featured an intact concrete floor. South of the area, discarded automobiles were stored on the unimproved ground. A nearby approximately 500-gallon storage tank for liquid fertilizer, and an unlabeled 55-gallon metal drum were empty. On the exterior of the Drakes' milking barn, Converse noted a 55-gallon drum and a 10-gallon container with sanitizing agents under a canopy. A diesel generator with a 26-gallon tank was stored in the same area, as well as six (6), 55-gallon drums for acid sanitizer. An adjacent large tank was identified as dairy equipment for pasteurizing/milk processing purpose, per the on-site manager, Mr. Mike Carrasco of Drake Family Farms. On the exterior of an east adjacent vacant former dairy facility (name/address unknown), an apparently non-operational emergency generator was located. One-gallon containers with vehicle fluids remained on the exterior the building. De minimis staining of the unimproved ground observed. Throughout the storage spaces on the central-north portion of the Property (Venegas Dairy), which were partially covered by shade structures, multiple farm vehicles, as well as refrigeration equipment components, were stored. Per Mr. Venegas,

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Item or Condition	Observed Evidence?	Comments
		materials from demolition of offsite dairy facilities are stored for resale. According to Mr. Venegas, storage containers observed adjacent to the equipment contain similar items. Used tires of larger farm vehicles were among the items. In the same general area, Converse noted a total of eight (8), 275-gallon totes and 25, 55-gallon poly drums (previously labeled as alkaline cleaner). All were used, or cleaned for use with the above mentioned brewery waste for cow feeding.
Storage Tanks & Related Equipment:	Yes	A maintenance shop area associated with the Venegas dairy (13835 Euclid Avenue), which was located on the central portion of the Property, included a 300-gallon AST for diesel. The tank was mounted on a steel frame above a drain. De minimis ground staining was observed on the concrete floor in the general area.
Odors:	No	
Standing Surface Water or Other Pools of Liquid:	No	
Drums & Other Containers of Hazardous Substances, Petroleum Products, or Other Unidentified Contents:	Yes	Please see Hazardous Materials & Petroleum Products above.
Transformers or Equipment containing Polychlorinated Biphenyls (PCBs):	Yes	Pole-mounted transformer equipment is located adjacent to the Venegas' milking barn. A nearby transmission line tower features AT&T antenna, and associated components inside a brick enclosure.
Pits, Ponds, or Lagoons:	Yes	A runoff catch basin is located on the southwestern Property corner. It was dry on the day of Converse's reconnaissance (July 2, 2021). An intermediate catch basin on the southwestern portion of the Property contained water. An east adjacent runoff channel was filled with water as well. A system of catch basins on the eastern part of the Property was only partially filled with water.
Stained Soil or Pavement:	No	

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Item or Condition	Observed Evidence?	Comments
Stressed Vegetation (other than from insufficient water):	No	
Evidence of Mounds, Depressions or Filled or Graded Areas Suggesting Trash or Other Solid Waste Disposal:	No	
Waste Water or any discharge (including storm water) into a Drain, Ditch, or Stream on or Adjacent to the Property:	Yes	Dairy farm runoff is collected in onsite catch basins.
Wells (active, inactive, or abandoned):	Yes	The two (2) dairy operations feature one (1) active water well each. A third well near the northeastern Property corner was decommissioned.
Septic Systems or Cesspools:	Yes	Three (3) septic tanks were identified at the Venegas' farm, and two (2) septic tanks were identified at the Drakes' farm.
Prior Structures:	No	
Roads, Tracks, Railroad Tracks or Spurs:	Yes	Schaefer Avenue bounds the Property on the north; and Euclid Avenue bounds the Property on the west.

In addition to above items, Converse also noted the following:

Irrigation valve equipment was located adjacent to the Edison maintenance shed next to the Venegas Dairy milk barn.

Used dairy components for resale are stored on the central portion of the Property. It included multiple milk and water tanks, and electrical switch and compressor equipment.

Water utility test location covers were located on the northeastern Property line along Schaefer Avenue.

A storm drain was noted on the central portion of the Drakes' Dairy. A nearby work station comprised of tools/ingredients for goat cheese preparation. Chiller/boiler equipment on the milking barn exterior included a water storage tank and pressure vessels.

East adjoining farmland/cattle facilities featured farm machinery/materials storage yards adjacent to the respective Property line.

Adjacent to the southwestern Property line (offsite), Converse noted a large pile of concrete/construction debris.

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Feedstock for cows and produce waste were staged south of the maintenance shop area on the central section of the Property. Five manure piles were noted throughout corrals on the western and central portions of the Property (Art Venegas Dairy).

6.5 Current Uses of Adjoining Properties

Based on our research and observations during our Property visit, the Property is bordered by the following:

Adjoining Property Use	
Direction	**Current Development**
North	Schaefer Avenue, followed by corn crops.
Northeast	Schaefer Avenue, followed by plowed agricultural land.
Northwest	Schaefer Avenue and Euclid Avenue, followed by agricultural land.
South	A truck yard, a vacant parcel, and a storage yard.
Southeast	A residential structure (7226 Edison Avenue)
Southwest	Euclid Avenue, followed by warehouses (14058 Euclid Avenue).
East	A residential structure (7365 Schaefer Avenue), vacant land, and farmland, including equipment/vehicle storage yards.
West	Euclid Avenue, followed by a commercial center, including Subway, Starbucks and Carl's Junior (7041, 7055, and 7069 Schaefer Avenue); a residential development (13817 Farmhouse Avenue); a trailer storage yard; and Robert R. Ford truck dealership (14042 Euclid Avenue).

6.6 Current Uses of Surrounding Area

Based on our research and observations during our Property visit, the surrounding area of the Property consists of residential, agricultural, and commercial uses. Commercial uses include a truck driving school, a church, retail stores, and restaurants.

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7.0 Interviews

During the interviews, the owners and occupants were asked if they had any available documents that would be helpful. The documents that were requested are detailed in Section 4.0 of this report:

Interview:	Comments:
Property Owner:	According to Mr. Gary R. Phillips, representative for Artevel of California LLC (Property owner since 2008), from the mid to the late 1960's, the Property was owned by Harm and Zwaantina te Velde, and was gifted to various irrevocable trusts for the benefit of their children, some of whom are members of the current ownership. Mr. Phillips stated that up to six (6) septic tanks are located on the Property. On the day of Converse's Property reconnaissance (July 2, 2021), five (5) septic tank locations were indicated to Converse by Mr. Carrasco of Drake Family Farms and Mr. Venegas of Art Venegas Dairy. Mr. Phillips was not aware of any environmental concerns in connection with the Property.
Tenant/ Occupant:	Mr. Adrian Venegas of Art Venegas Dairy identified three (3) septic tanks associated with his dairy operation. He indicated that the only reportable hazardous waste on-site was manure, which needs to be tracked by the RWQCB prior to on-site disposal. Five (5) manure piles were observed by Converse throughout the corrals on the central and western portions of the Property. According to Mr. Venegas, manure stockpiles stored inside the corrals on the central-west portion of the Property are applied to cropland on the northwestern, central, and southern portions of the Property. Pumpkins are the main crops which is sold on-site in the fall. Mr. Venegas stated that sanitizers and other dairy related chemicals are replenished by Specialized Dairy Services, who also hauls the spent drums of sanitizer/cleaning agents. He indicated the 300-gallon diesel AST in the central maintenance shop area as the only petroleum product storage for his dairy operation. Mr. Venegas stated the storage containers observed throughout the Venegas Dairy on the central and northeastern portions of the Property contained equipment from demolition of offsite dairy operations. The equipment is resold, including

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Interview:	Comments:
	milk processing apparatuses, electric switch panels, and refrigeration components. Upon Converse's request, Mr. Venegas inquired with Coco's Nursery staff whether any fertilizers/chemicals are stored at the nursery. He indicated that stock piles of potting soil on the unimproved ground is the only material stored on-site for plant production. Mr. Mike Carrasco of Drake Family Farms identified two (2) septic tanks throughout his facility, which are pumped by Ary Septic. He too stated that Specialized Dairy Services delivers/hauls all hazardous materials/empty drums. Mr. Carrasco indicated that the only petroleum product storage for his facility was inside the maintenance shop were small containers of diesel and gasoline are located.
State or Local Government Officials:	Other than the information provided in Section 5.4, no other information was provided by a government official.
Owners and Occupants of Neighboring Sites:	No interviews of owners or occupants of neighboring sites were conducted.

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8.0 Findings

A cursory summary of findings is provided below. However, details were not included or fully developed in this section, and the report must be read in its entirety for a comprehensive understanding of the items contained herein.

- The Property is owned by George R. Phillips of The John Te Velde Irrevocable Trust; Zwaantina Te Velde and George R. Phillips, Co Trustees, under Survivor's Trust, under The Harm and Zwaantina Te Velde Trust; and Artevel of California, LLC. It is occupied by two (2) dairy farms and a nursery (tenants).
- The Property was identified as 13813 and 13835 Euclid Avenue, and 7235, 7255, 7271, 7275, and 7277 Schaefer Avenue.
- Historically, as early as 1897, the Property was undeveloped land. From as early as 1933, structures were evident along the northeastern and western Property lines, which were associated with agricultural operations by 1938. Between 1946 and the present, the Property was used agriculturally, including one (1) dairy operation on the western portion of the Property, and another dairy operation on the northeastern portion of the Property. From as early as 2006, the present day nursery operation on the southwestern portion of the Property was noted as well.
- The Property was identified on the following regulatory databases: CERS, HWTS, CERS HAZ WASTE, ENF, CIWQS, and San Bern. Co. Violations were noted regarding hazardous material reporting and housekeeping practices at the Property. A UST on the northern Property portion, operated by a historical occupant, was removed and received regulatory closure in 2011. From observations and interviews during Converse's reconnaissance, current on-site petroleum product storage is limited to one (1), 300-gallon AST for diesel at Art Venegas Dairy. The Drake Family Farm operation only stores petroleum product in one to three-gallon containers.
- Art Venegas Dairy (13835 Euclid Avenue) disposes of manure on-site. Five (5) manure piles were observed throughout the corrals on the central and western portions of the Property.
- Five (5) or six (6) septic tanks of unknown capacity are located on the Property. There (3) tanks are associated with the Venegas Dairy buildings (milk barn and two (2) residential structures), and two (2) tanks are located at the Drake Dairy facility. The location of the sixth tank location is unknown.
- Each of the two (2) dairies features one (1) active water well. A decommissioned water well is found near the northeastern Property corner.
- Catch basins for dairy runoff are located on the Property.
- Observed chemicals inside production areas for both on-site dairies included 55-gallon poly drums of acid/base cleaners and disinfectants, and five-gallon containers of medicated ointments/dips for animals. Compressed gas cylinders for welding gases, car/equipment batteries, and tires were stored in maintenance areas, mainly on the central-west portion of the Property (Venegas Dairy). Abandoned vehicles/equipment were noted in the same general area, and also in storage areas on the northeastern portion of the Property.
- As early as 1897, the adjoining properties were undeveloped land. By 1902, apparent residential structures were noted on adjoining properties. From as early as 1938, agricultural uses were noted as well, including row crops. Commercial developments were noted as early as 1959. By 1975, most of the north and east adjoining land was occupied by dairy farms, and commercial uses were concentrated to the southwest and west. Commercial, as well as residential uses, remain to the west along Euclid Avenue until the present day, whereas north and east adjoining land remains for agricultural use. Part of this land is currently fallow/vacant.
- Adjoining property regulatory database listings included, but were not limited to LUST, CERS HAZ WASTE, CORTESE, CERS TANKS, San Bern. Co. Permit, and CERS database listings. Pertinent historical Leaking Underground Storage Tank (LUST) cases on adjoining properties all received regulatory closure. All cases were limited to soil contamination only. Regulatory compliance inspections by the San Bernardino County

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Fire Department were noted for all hazardous material handlers/hazardous waste generators.

- The surrounding area of the Property consists of residential, agricultural, and commercial uses. Commercial uses include a truck driving school, a church, retail stores, and restaurants.

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9.0 Opinion

Agricultural use from as early as 1938 is a REC due to potential residual contamination from agricultural chemical use.

On-site dairy operations and associated chemicals and equipment from as early as 1946 is a REC. The potential for buried manure is a concern.

The five (5) or six (6) on-site septic tanks are located on the Property. These septic systems are not considered RECs.

The former UST on the northeastern portion of the Property is not a REC based on no significant release records, offsite disposal, and regulatory closure.

Property listings regarding hazardous materials/wastes are not RECs due to offsite disposal and regulatory compliance inspections.

Adjoining properties' listings regarding LUST cases are not RECs based on regulatory closure, distance from the Property, and media (soil) affected. Listings regarding hazardous material use/hazardous waste generation are not RECs based on no significant release records, offsite disposal and regulatory compliance inspections.

No significant data gaps were identified that affect the ability of the Environmental Professional (EP) to identify RECs.

There are no unusual circumstances where greater certainty is required regarding RECs.

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10.0 Conclusions and Recommendations

Converse has performed a Phase I Environmental Site Assessment in general conformance with the scope and limitations of ASTM Practice E1527-13 for Euclid Avenue and Schaefer Avenue, Ontario, San Bernardino County, California. Any exceptions to or deletions from this practice are described in the Limitations and Exceptions of Assessment section of this report. This assessment has revealed no evidence of *recognized environmental conditions* in connection with the Property except for the following:

- Agricultural use from as early as 1938 is a REC due to potential residual contamination from agricultural chemical use.
- On-site dairy operations and associated chemicals, manure, and equipment, from as early as 1946 are RECs.

Based on this assessment, Converse has the following recommendation:

- Soil sampling over the Property. Areas to be assessed should include the farmland, catch basins, maintenance areas, AST (and drain located underneath the AST) & UST areas, and livestock/manure areas.
- Containers of hazardous materials, equipment, and tires should be removed from the Property prior to acquisition. If these items are left on-site, they will need to be disposed of in accordance to applicable regulations.
- A methane assessment in accordance with the City of Ontario requirements should be conducted.

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11.0 Deviations and Limitations

The following deviations and/or limitations from the ASTM Standard were encountered during this assessment:

- There was no access to various storage containers for dairy equipment throughout the central and northeastern portions of the Property, within the Art Venegas Dairy tenant space (13835 Euclid Avenue).
- Converse did not access the residential structures at 13835 Euclid Avenue (Art Venegas Dairy) or the Drake Family Farm (7235, 7255 & 7277 Schaefer Avenue).
- Former storage/maintenance structures with fire damage adjacent to the Venegas milking barn were not accessed, but limited views of the interior were obtainable.
- A vacant former dairy facility on the northeastern portion of the Property was not accessible.
- Due to vegetative cover, observation of the ground surface was limited underneath dairy equipment/vehicles, including discarded vehicles, observed throughout storage areas on the central and northeastern Property portions within the Venegas Dairy tenant space.

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12.0 Additional Non-Scope Services

There are environmental issues outside the scope of the ASTM E1527-13 that can be assessed in connection with a commercial real estate transaction. These are dealt with as non-scope considerations since they do not typically present a Superfund Liability. The specific level of inquiry (if any) is defined in the Proposal which contains a Scope of Work. These non-scope services are very client specific and not covered by the ASTM standard. They are frequently related to the business environmental risk which is defined in the standard as "risk which can have a material environmental or environmentally-driven impact on the business associated with the current or planned use of a parcel of commercial real estate".

No non-scope issues were addressed during this assessment.

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13.0 Signature of Environmental Professional

I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312.

I have the specific qualifications based on education, training and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standard and practices set forth in 40 CFR Part 312.

Site Assessor

Kaspar Wittlinger
Sr. Staff Environmental Scientist

Senior Reviewer

Laura Tanaka
Principal Environmental Scientist

Laura Tanaka - Principal Environmental Scientist

This Phase I ESA was completed by the above Environmental Professional. A complete list of preparers, and their responsibilities for this assessment, is provided in the following section (Section 14.0, List of Preparers).

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14.0 List of Preparers

Norman S. Eke
Senior Vice President

B.A., Liberal Studies, Environmental Studies Emphasis, University of California, Santa Barbara, 1988.
Cal/OSHA Certified Asbestos Consultant, #96-2093
NIOSH 582 Equivalent Training

Senior Vice President and Managing Officer of Converse's California Environmental offices. Mr. Eke has served as the Principal-in-Charge and Contract Administrator to deliver services to our public agency and private clients. Mr. Eke has 31 years of experience in the fields of Environmental Due Diligence including Phase I and Phase II Environmental Site Assessments, Asbestos surveys/specifications/abatement monitoring, Preliminary Endangerment Assessments and associated Supplemental Site Investigations and Removal Action Work Plans/Implementation, various forms of Remediation, Human Health Risk Assessment and Indoor Air Quality. Mr. Eke is a former Subcommittee Chairman for E.50-02 Real Assessment and Management of the ASTM E.50 Committee on Environmental Assessment, Risk Management, Corrective Action, which includes Phase I ESA standards.

Principal area of responsibility for this ESA report: Client Point of Contact., Report Review

Laura Tanaka
Principal Environmental Scientist

B.S., Biology, California State Polytechnic University, Pomona, 1987
Cal/OSHA Asbestos Consultant, 11-4708
CDPH Certified Lead Inspector/Assessor, #I-3086
CDPH Certified Project Designer, #D-3086
CDPH Certified Project Monitor, #M-3086

Ms. Tanaka is currently responsible for the day-to-day operations of the Costa Mesa office. Ms. Tanaka has 30 years experience with Phase I and II ESAs, Preliminary Endangerment Assessments, asbestos surveys, lead-based paint surveys, abatement monitoring, as well as hazardous material audits, completing business plans, and SCAQMD permitting. Current duties at Converse include project management, business development and client maintenance, conducting/managing ESAs, and completing third party documents reviews.

Principal area of responsibility for this ESA report: Project Management, Client Contact, Historical Research, Regulatory Agency Interaction, Property Reconnaissance, Interviews, and Report Generation and Review.

Kaspar Wittlinger
Senior Staff Environmental Scientist

B.S., Environmental Engineering, The City College of New York, New York, 2016
EIT Certificate #162789, Sacramento, CA

Mr. Wittlinger has 14 years of professional experience collaborating on international construction and site remediation projects. As an Engineer in Training he has resolved permitting issues in public spaces with strategic water and soil sample collection, pertaining data analysis, and presentation of recommendable courses of action. He has designed customized systems for water and soil best management practices. Mr. Wittlinger has experience conducting Environmental Site Assessments as part of the due diligence process.

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Principal area of responsibility for this ESA report: Historical Research, Regulatory Agency Interaction, Property Reconnaissance, Interviews, and Report Generation.

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15.0 References

California Department of Conservation, Division of Mines and Geology, Geologic Map of California, 2010.

California Department of Conservation (DOC), Geologic Energy Management Division (CalGEM) Website, (https://www.conservation.ca.gov/calgem/Pages/Wellfinder.aspx), June 2021.

California Environmental Protection Agency (Cal/EPA), Department of Toxic Substances Control, Request for Information, June 2021.

Cal/EPA, Envirostor Website (http://www.envirostor.dtsc.ca.gov/public/), June 2021.

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Cal/EPA, Geotracker Website (http://geotracker.waterboards.ca.gov/), June 2021.

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South Coast Air Quality Management District, Request for Information, June 2021.

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Appendix A -

Application for Authorization to Use

Converse Consultants

Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

Application for Authorization to Use

TO: Converse Consultants
Environmental Department
717 South Myrtle Avenue
Monrovia, California 91016

Project Title & Date: _____

Project Address: _____

FROM: (Please identify name & address of person/entity applying for permission to use the referenced report.)

_____

_____

_____

Applicant _____ hereby applies for permission to use the referenced report in order to:

_____

_____

_____

Applicant wishes or needs to use the referenced report because:

_____

_____

_____

Applicant also understands and agrees that the referenced document is a copyrighted document and shall remain the sole property of Converse Consultants. Unauthorized use or copying of the report is strictly prohibited without the express written permission of Converse Consultants. *Applicant* understands and agrees that Converse Consultants may withhold such permission at its sole discretion, or grant such permission upon agreement to Terms and Conditions, such as the payment of a re-use fee, amongst others.

Applicant Signature: _____

Applicant Name (print): _____

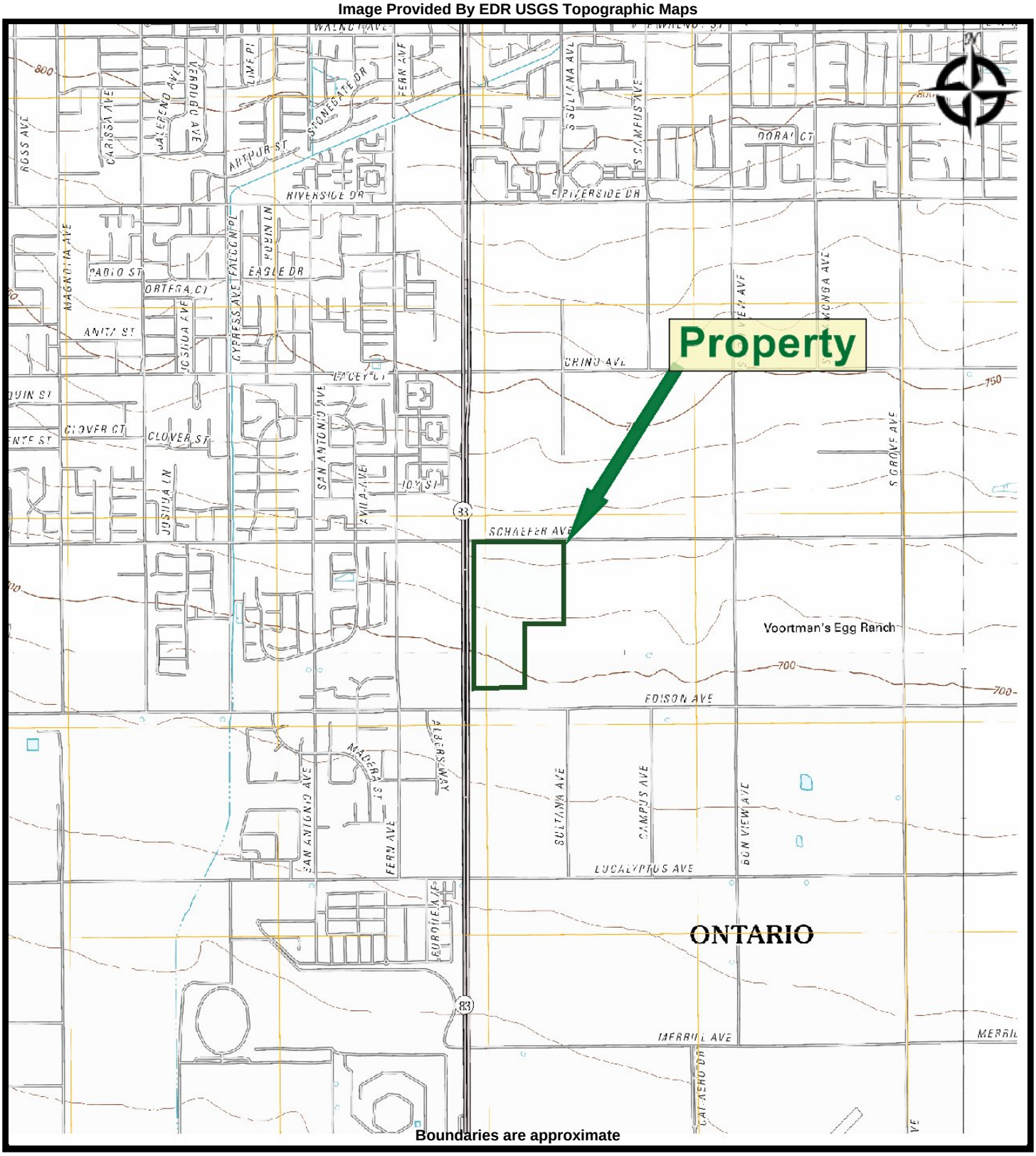
Title: _____

Date: _____

Appendix B -

Property Plans

Image Provided By EDR USGS Topographic Maps



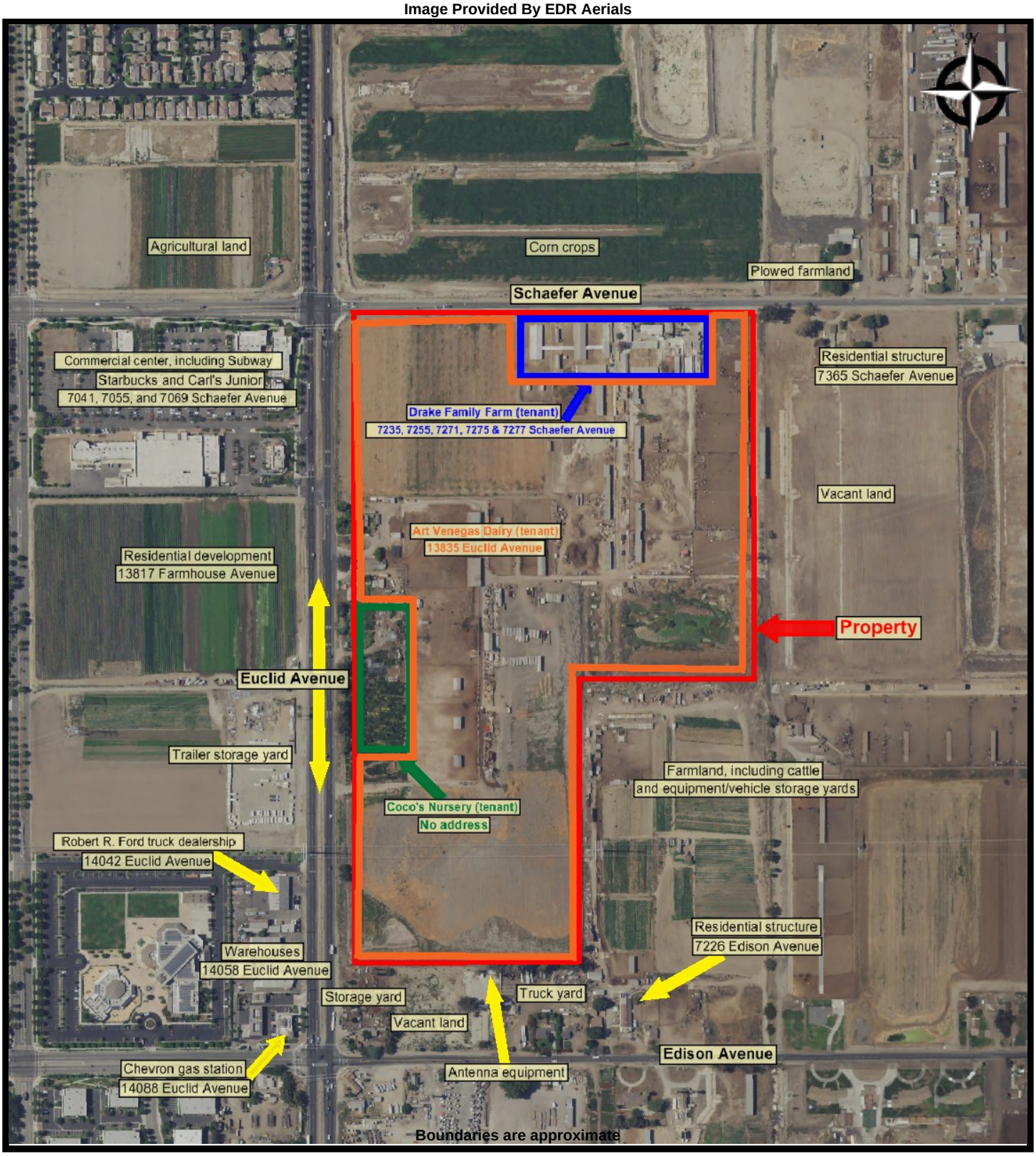
Boundaries are approximate

CONVERSE CONSULTANTS
Geotechnical Engineering and Environmental Services

FIGURE 1 - PROPERTY LOCATION MAP
RCCD INC./60-ACRE PROPERTY IN ONTARIO
Euclid Avenue and Schaefer Avenue
Ontario, California 91762

PREPARED FOR: RCCD, Inc.
PROJ. MGR: Norman Eke **DATE: 7/16/2021**
DRAWN BY: Kaspar Wittlinger **PROJ. #: 21-16-121-01**

Image Provided By EDR Aerials

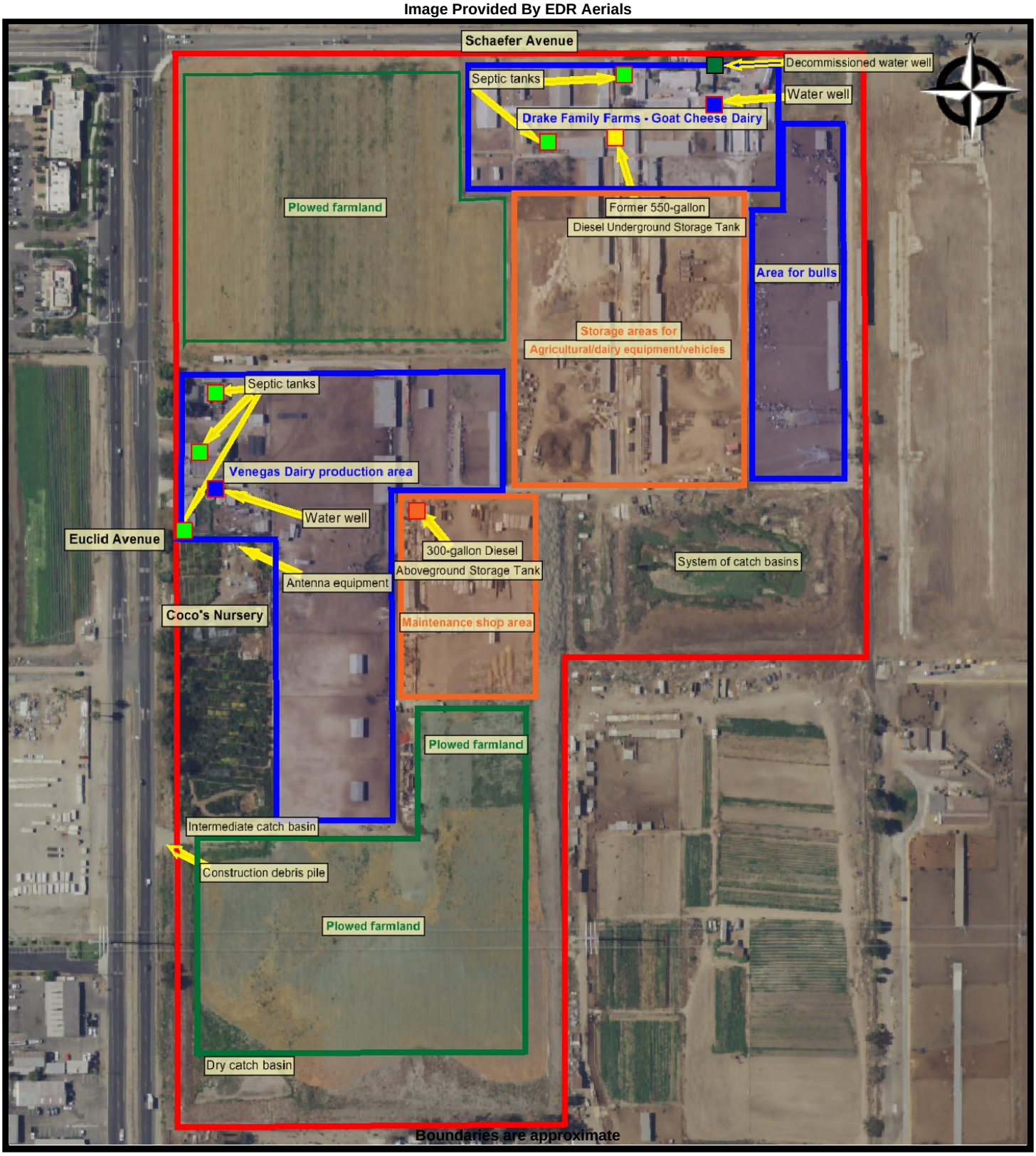


CONVERSE CONSULTANTS
Geotechnical Engineering and Environmental Services

FIGURE 2 - PROPERTY MAP
RCCD INC./60-ACRE PROPERTY IN ONTARIO
Euclid Avenue and Schaefer Avenue
Ontario, California 91762

PREPARED FOR: RCCD, Inc.
PROJ. MGR: Norman Eke **DATE: 7/16/2021**
DRAWN BY: Kaspar Wittlinger **PROJ. #: 21-16-121-01**

Image Provided By EDR Aerials



CONVERSE CONSULTANTS
Geotechnical Engineering and Environmental Services

FIGURE 3 - PROPERTY DETAIL
RCCD INC./60-ACRE PROPERTY IN ONTARIO
Euclid Avenue and Schaefer Avenue
Ontario, California 91762

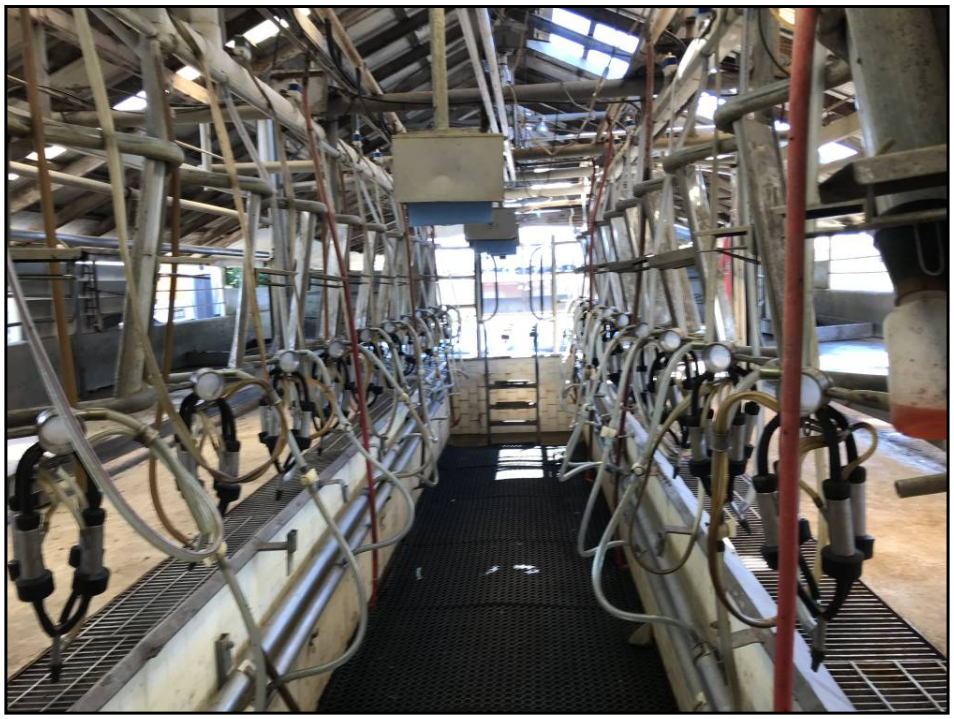
PREPARED FOR: RCCD, Inc.
PROJ. MGR: Norman Eke **DATE: 7/16/2021**
DRAWN BY: Kaspar Wittlinger **PROJ. #: 21-16-121-01**

Appendix C -

Pertinent Property Photographs



1. Art Venegas Dairy (tenant) milk barn at 13835 Euclid Avenue (west).



2. Venegas milking barn interior.

Copyright 2021 Converse Consultants



3. Venegas milking barn work room.



4. Disinfectant storage inside work room.

Copyright 2021 Converse Consultants



5. Single-family home south adjacent to milk barn (also 13835 Euclid Avenue). The structure was not accessed.



6. SCE equipment shed at 13813 Euclid Avenue (associated with pole-mounted transformers adjacent to single-family home).

Copyright 2021 Converse Consultants



7. Water well equipment within in Venegas Dairy complex on Euclid Avenue (west).



8. Vacant residential structure north adjacent to milk barn (included with 13835 Euclid Avenue). The structure was not accessed (earthquake damage).

Copyright 2021 Converse Consultants



9. Vacant buildings adjacent to vacant residential structure (included in 13835 Euclid Avenue).



10. Interior of vacant building adjacent to vacant residential structure (fire damage noted).

Copyright 2021 Converse Consultants



11. View of milk cow corals on central portion of the Property (manure piles in background to right).



12. Totes used for malt waste from breweries (feed stock for cattle).

Copyright 2021 Converse Consultants



13. Empty disinfectant poly drum washing area on central portion of the Property.



14. Equipment storage from dismantled off-site dairy operations on central Property portion (for resale).

Copyright 2021 Converse Consultants



15. Equipment storage from dismantled off-site dairy operations (for resale).



16. 300-gallon diesel AST in maintenance area on central portion of the Property (Art Venegas Dairy).

Copyright 2021 Converse Consultants



17. Drain below the diesel AST.



18. Storage of approximately 80 used tires adjacent to the AST.

Copyright 2021 Converse Consultants



19. View of maintenance shop on central portion of the Property (Art Venegas Dairy).



20. Empty disinfectant drums from use in dairy operation.

Copyright 2021 Converse Consultants



21. Battery storage in maintenance shop area.



22. Produce (cattle food) storage south of maintenance shop.

Copyright 2021 Converse Consultants



23. Discarded automobiles near produce feed stock.



24. Empty fertilizer tank and empty metal drum on southern portion of the Property (feed stock silo and boxes in the rear).

Copyright 2021 Converse Consultants



25. Intermediate catch basin on southwestern portion of the Property.



26. Runoff/drainage channel adjacent to intermediate catch basin.

Copyright 2021 Converse Consultants



27. Coco's Nursery (tenant, no address) north of intermediate catch basin.



28. Construction debris pile adjacent to southwestern Property line (offsite).

Copyright 2021 Converse Consultants



29. View of dry catch basin on the southwestern corner of the Property.



30. Western Property line, viewing north (dry catch basin to the right).

Copyright 2021 Converse Consultants



31. Southern portion of the Property, viewing southwest.



32. Northern Property line, viewing west.

Copyright 2021 Converse Consultants



33. Vacant dairy facility and single-family home on northeastern portion of the Property, within Drake Family Farm tenant space.



34. Decommissioned water well equipment on northeastern Property line.

Copyright 2021 Converse Consultants



35. Water well equipment at northeastern Property corner.



36. Goat cheese production facility on northeastern portion of the Property (Drake Family Farms; 7235, 7255, 7271, 7275 & 7277 Schaefer Avenue).

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37. Chiller equipment on facility exterior.



38. Exterior storage including dairy equipment, disinfectants, and an emergency generator (septic tank located below storage).

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39. Empty milk tank and empty disinfectant drums on western milking barn exterior.



40. Water well equipment east of Drake Farm milking barn.

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41. View of goat milking barn interior.

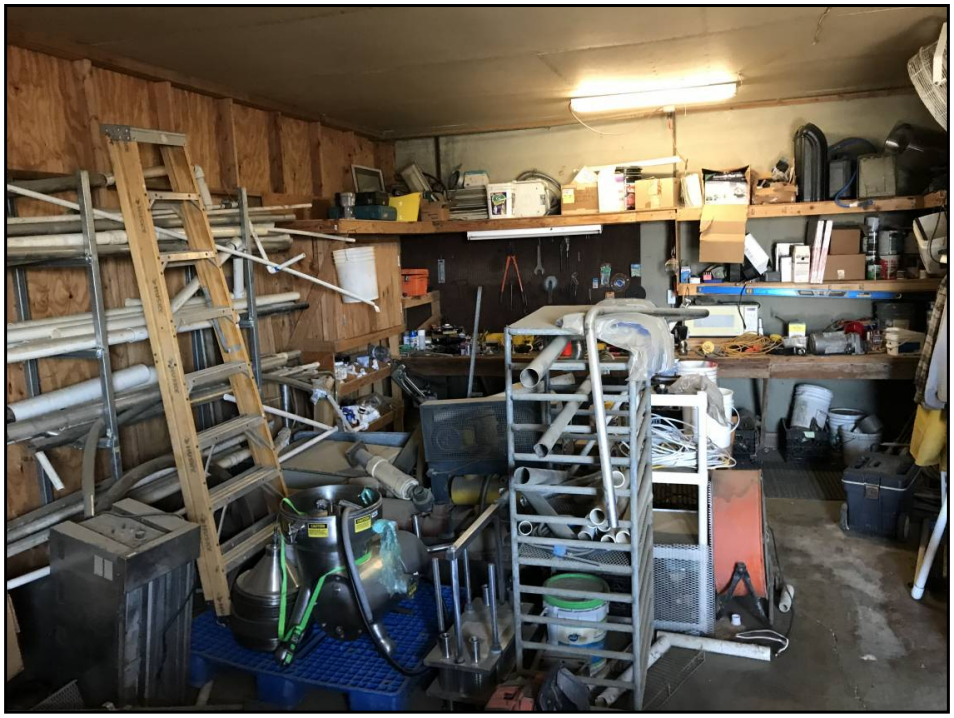


42. Cooling units for goat cheese on northern portion of the Property.

Copyright 2021 Converse Consultants



43. Disinfectant storage inside milking barn.



44. Drake Family Farms maintenance shop.

Copyright 2021 Converse Consultants



45. Fuel storage inside maintenance shop.



46. Septic tank location on northeastern Property portion (Drake Family Farms).

Copyright 2021 Converse Consultants



47. City water utility covers on northeastern Property line.



48. Catch basin on central eastern portion of the Property.

Copyright 2021 Converse Consultants



49. South adjoining vacant land.



50. South adjoining antenna equipment.

Copyright 2021 Converse Consultants



51. Equipment storage on southeast adjoining agricultural property.



52. Truck dealership to southwest adjacent across Euclid Avenue (Robert R. Ford, 14402 Euclid Avenue).

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53. Dairy/cattle operation on east adjoining land.



54. East adjoining vacant land.

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55. West adjacent trailer storage yard across Euclid Avenue.

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Appendix D -

Historical Research

RCCD Inc./60-Acre Property IN Ontario

Euclid Avenue and Schaefer Avenue

Ontario, CA 91762

Inquiry Number: 6550948.3

June 23, 2021

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/23/21

Site Name:

RCCD Inc./60-Acre Property IN
Euclid Avenue and Schaefer A
Ontario, CA 91762
EDR Inquiry # 6550948.3

Client Name:

Converse Consultants
717 S Myrtle Ave
Monrovia, CA 91016
Contact: Kaspar Wittlinger

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Converse Consultants were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 96BB-49D2-8701

PO # NA

Project 21-16-121-01

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 96BB-49D2-8701

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Converse Consultants (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

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RCCD Inc./60-Acre Property IN Ontario

Euclid Avenue and Schaefer Avenue

Ontario, CA 91762

Inquiry Number: 6550948.4

June 23, 2021

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/23/21

Site Name:

RCCD Inc./60-Acre Property IN
Euclid Avenue and Schaefer A
Ontario, CA 91762
EDR Inquiry # 6550948.4

Client Name:

Converse Consultants
717 S Myrtle Ave
Monrovia, CA 91016
Contact: Kaspar Wittlinger

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Converse Consultants were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:

P.O.# NA

Project: 21-16-121-01

Coordinates:

Latitude:	34.003301 34° 0' 12" North
Longitude:	-117.648649 -117° 38' 55" West
UTM Zone:	Zone 11 North
UTM X Meters:	440100.50
UTM Y Meters:	3762711.61
Elevation:	717.35' above sea level

Maps Provided:

2012	1942
1981	1941
1976	1933
1973	1903
1954	1902
1950, 1953, 1954	1900
1949	1897
1944, 1947	

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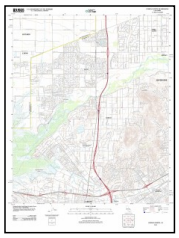
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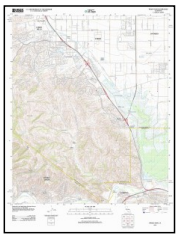
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



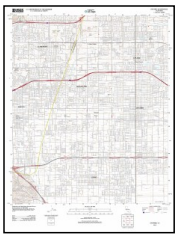
Corona North
2012
7.5-minute, 24000



Prado Dam
2012
7.5-minute, 24000

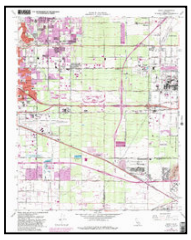


Guasti
2012
7.5-minute, 24000

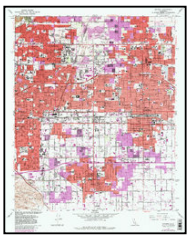


Ontario
2012
7.5-minute, 24000

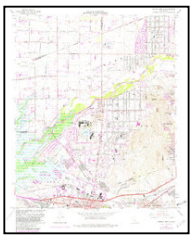
1981 Source Sheets



Guasti
1981
7.5-minute, 24000
Aerial Photo Revised 1978



Ontario
1981
7.5-minute, 24000
Aerial Photo Revised 1978

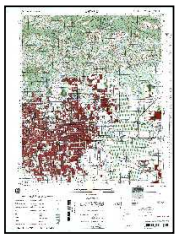


Corona North
1981
7.5-minute, 24000
Aerial Photo Revised 1978



Prado Dam
1981
7.5-minute, 24000
Aerial Photo Revised 1978

1976 Source Sheets



ONTARIO
1976
15-minute, 50000

1973 Source Sheets



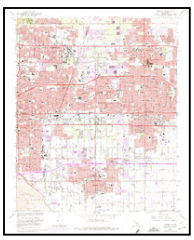
Guasti
1973
7.5-minute, 24000
Aerial Photo Revised 1973



Corona North
1973
7.5-minute, 24000
Aerial Photo Revised 1973



Prado Dam
1973
7.5-minute, 24000
Aerial Photo Revised 1973



Ontario
1973
7.5-minute, 24000
Aerial Photo Revised 1973

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1954 Source Sheets



Ontario
1954
15-minute, 62500

1950, 1953, 1954 Source Sheets



Prado Dam
1950
7.5-minute, 24000
Aerial Photo Revised 1946



Guasti
1953
7.5-minute, 24000
Aerial Photo Revised 1952



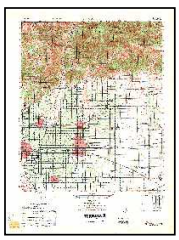
Corona North
1954
7.5-minute, 24000
Aerial Photo Revised 1952

1949 Source Sheets



Prado Dam
1949
7.5-minute, 24000
Aerial Photo Revised 1946

1944, 1947 Source Sheets



CUCAMONGA
1944
15-minute, 50000

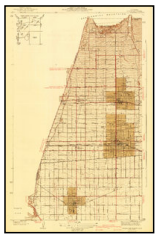


CORONA
1947
15-minute, 50000

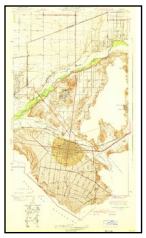
Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1942 Source Sheets



Ontario and Vicinity
1942
7.5-minute, 31680



Corona and Vicinity
1942
7.5-minute, 31680

1941 Source Sheets



Prado
1941
7.5-minute, 31680



GUASTI VICINITY
1941
7.5-minute, 31680

1933 Source Sheets



Prado
1933
7.5-minute, 31680



Ontario
1933
7.5-minute, 31680

1903 Source Sheets



Cucamonga
1903
15-minute, 62500

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1902 Source Sheets



Corona
1902
30-minute, 125000

1900 Source Sheets



Cucamonga
1900
15-minute, 62500

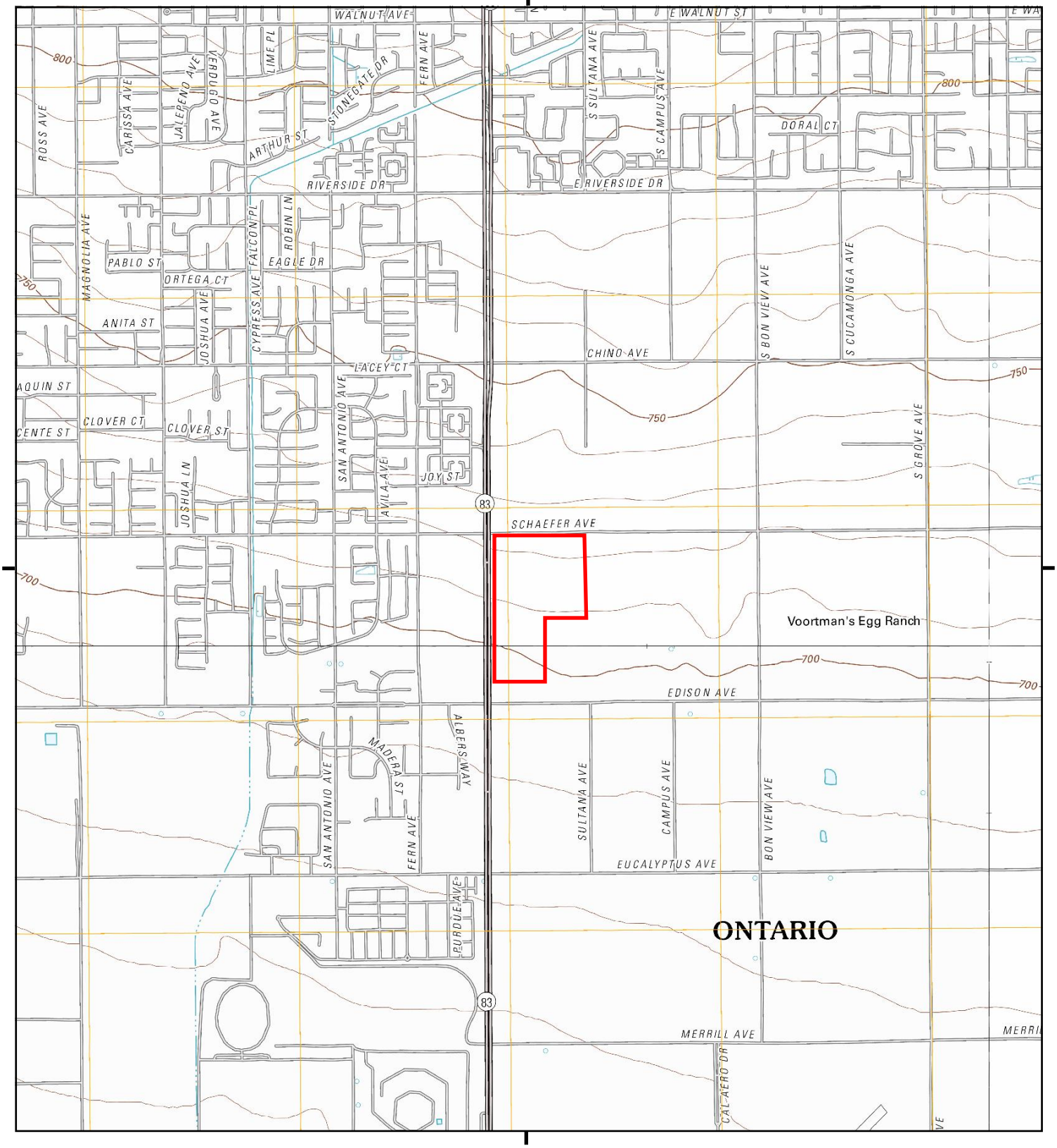
1897 Source Sheets



Cucamonga
1897
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

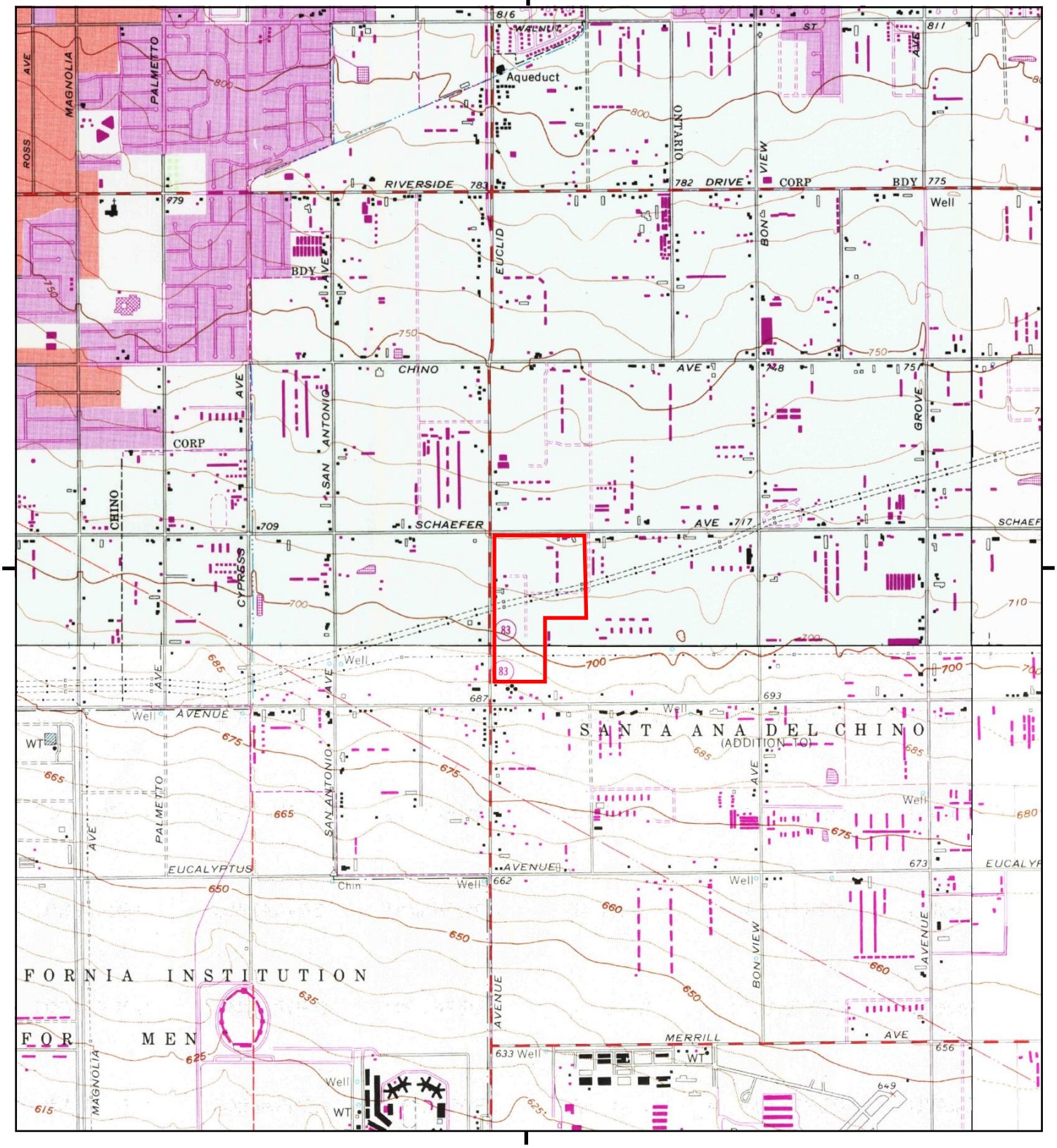
TP, Ontario, 2012, 7.5-minute
NE, Guasti, 2012, 7.5-minute
SE, Corona North, 2012, 7.5-minute
SW, Prado Dam, 2012, 7.5-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

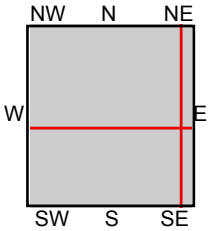
Historical Topo Map

1981



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



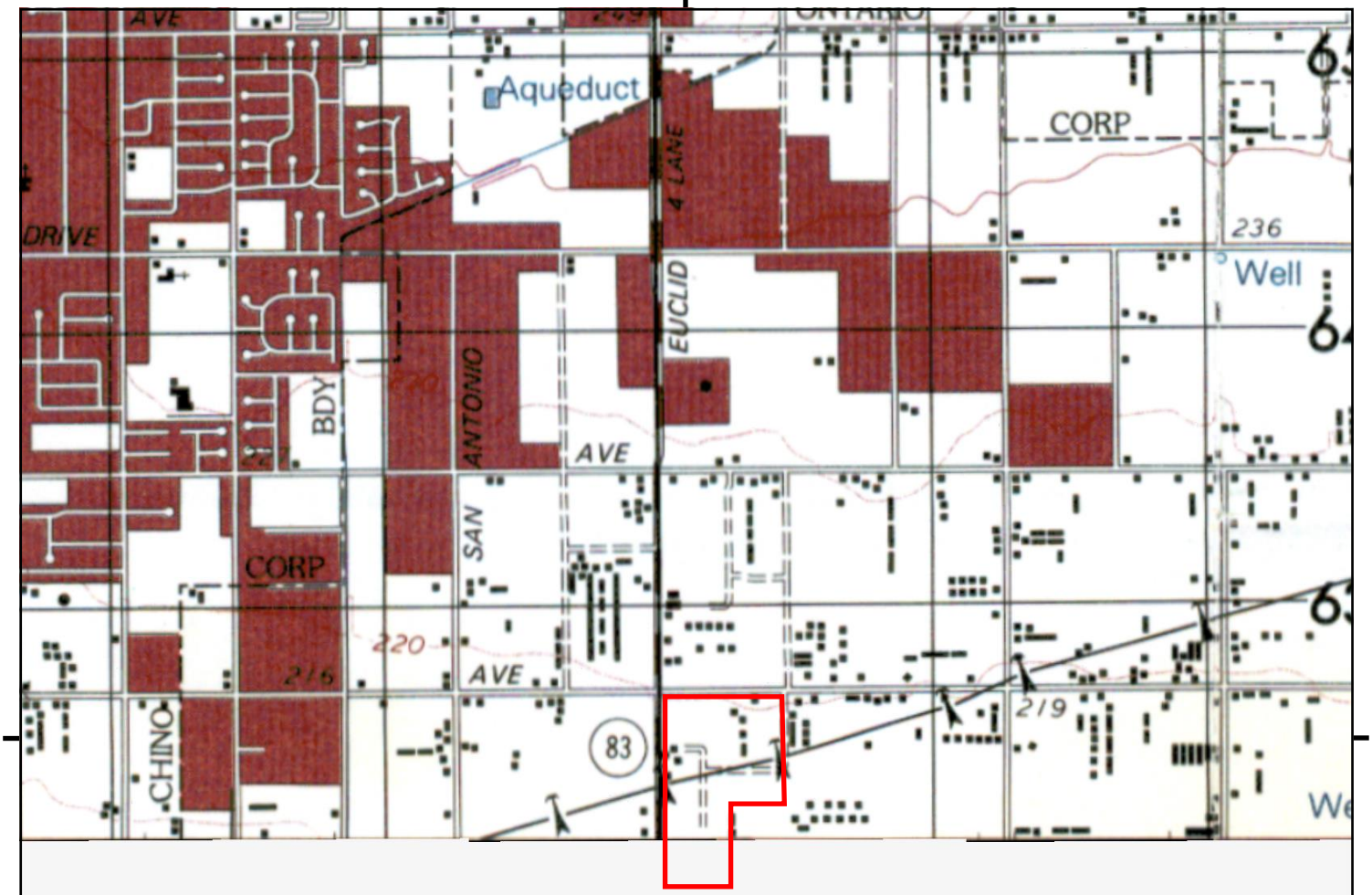
TP, Ontario, 1981, 7.5-minute
NE, Guasti, 1981, 7.5-minute
SE, Corona North, 1981, 7.5-minute
SW, Prado Dam, 1981, 7.5-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

Historical Topo Map

1976



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

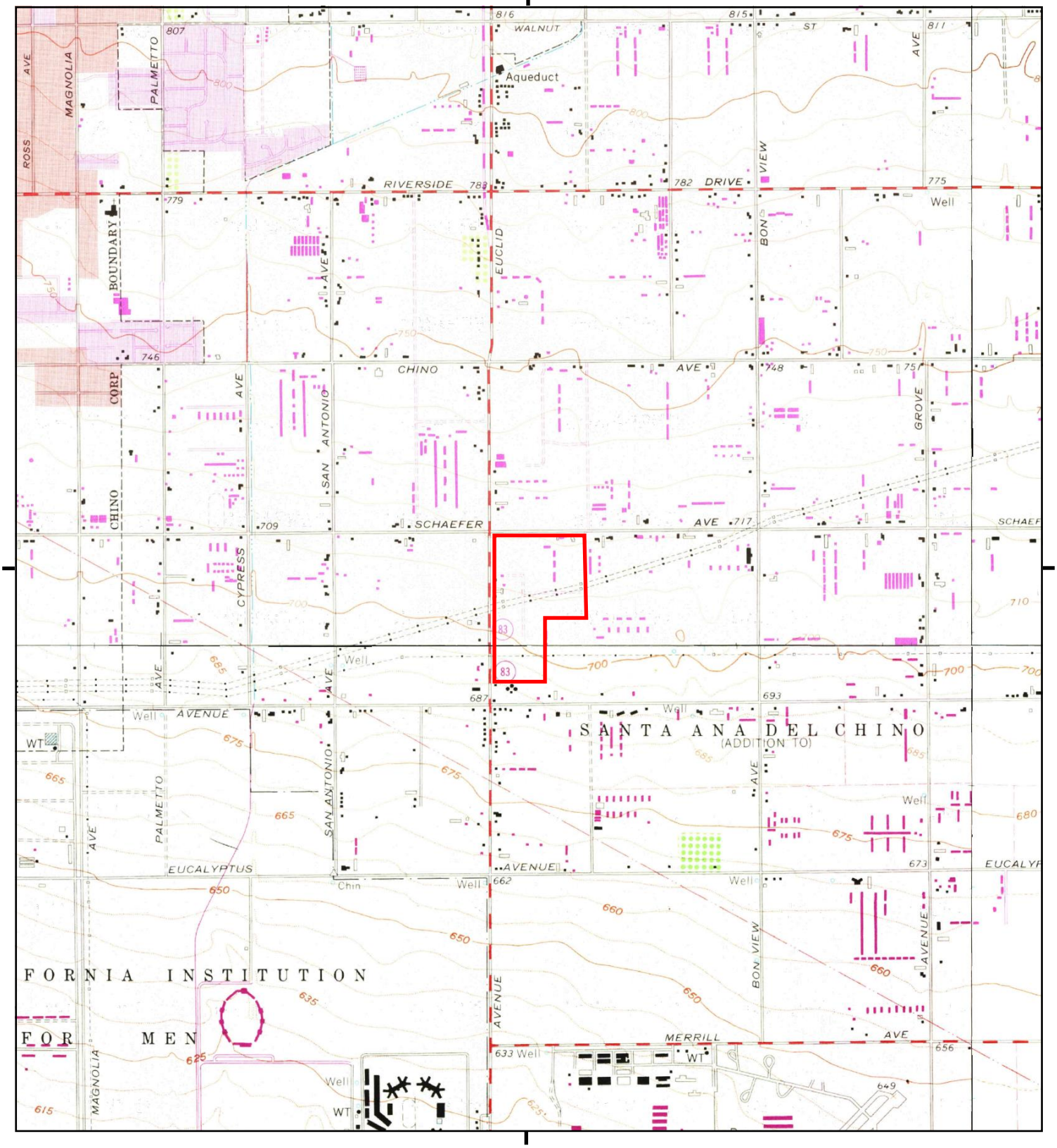
TP, ONTARIO, 1976, 15-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

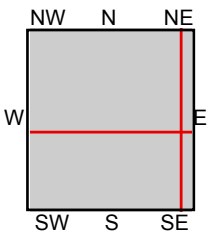
Historical Topo Map

1973



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



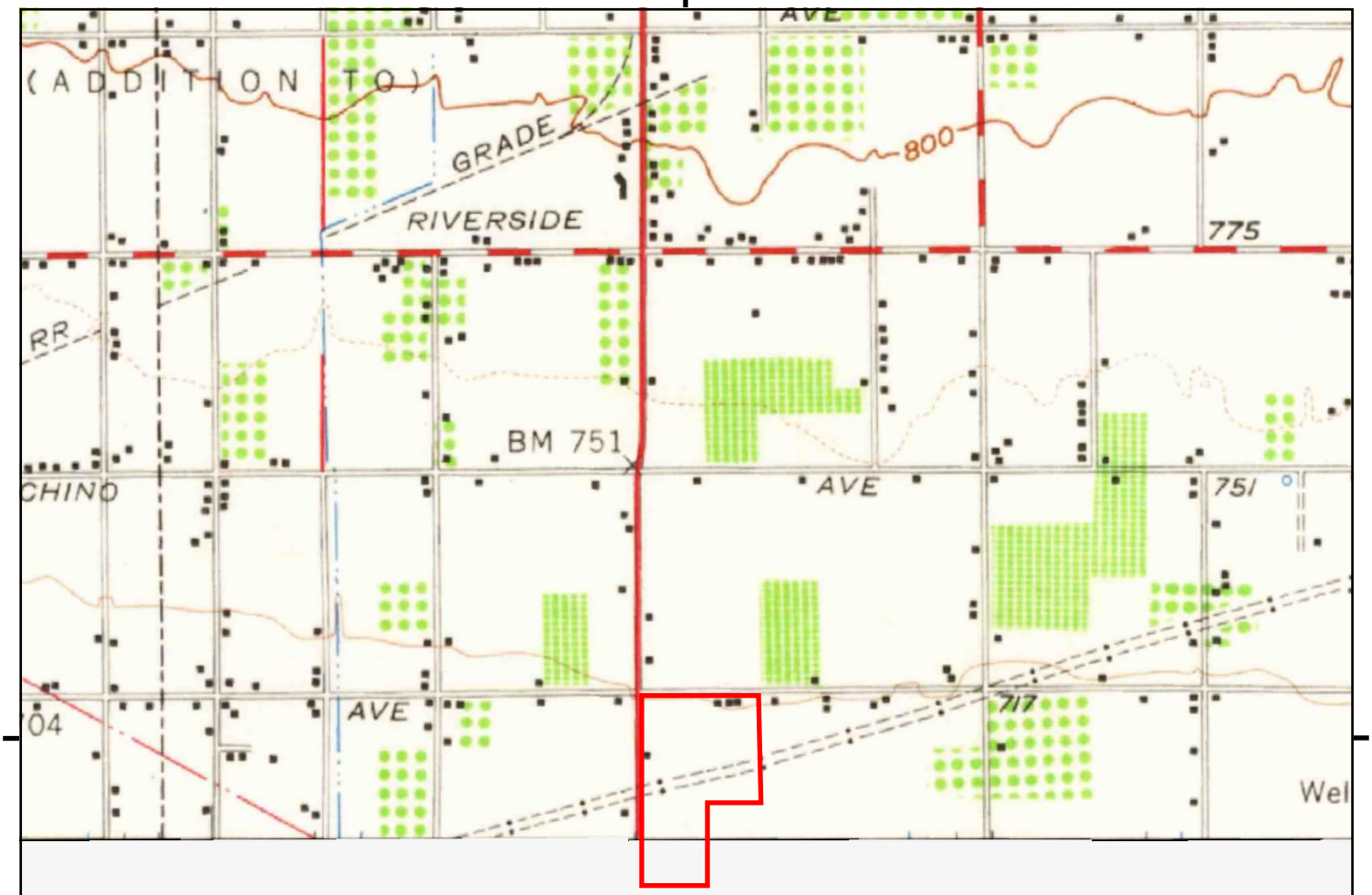
TP, Ontario, 1973, 7.5-minute
NE, Guasti, 1973, 7.5-minute
SE, Corona North, 1973, 7.5-minute
SW, Prado Dam, 1973, 7.5-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

Historical Topo Map

1954



UNMAPPED

This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

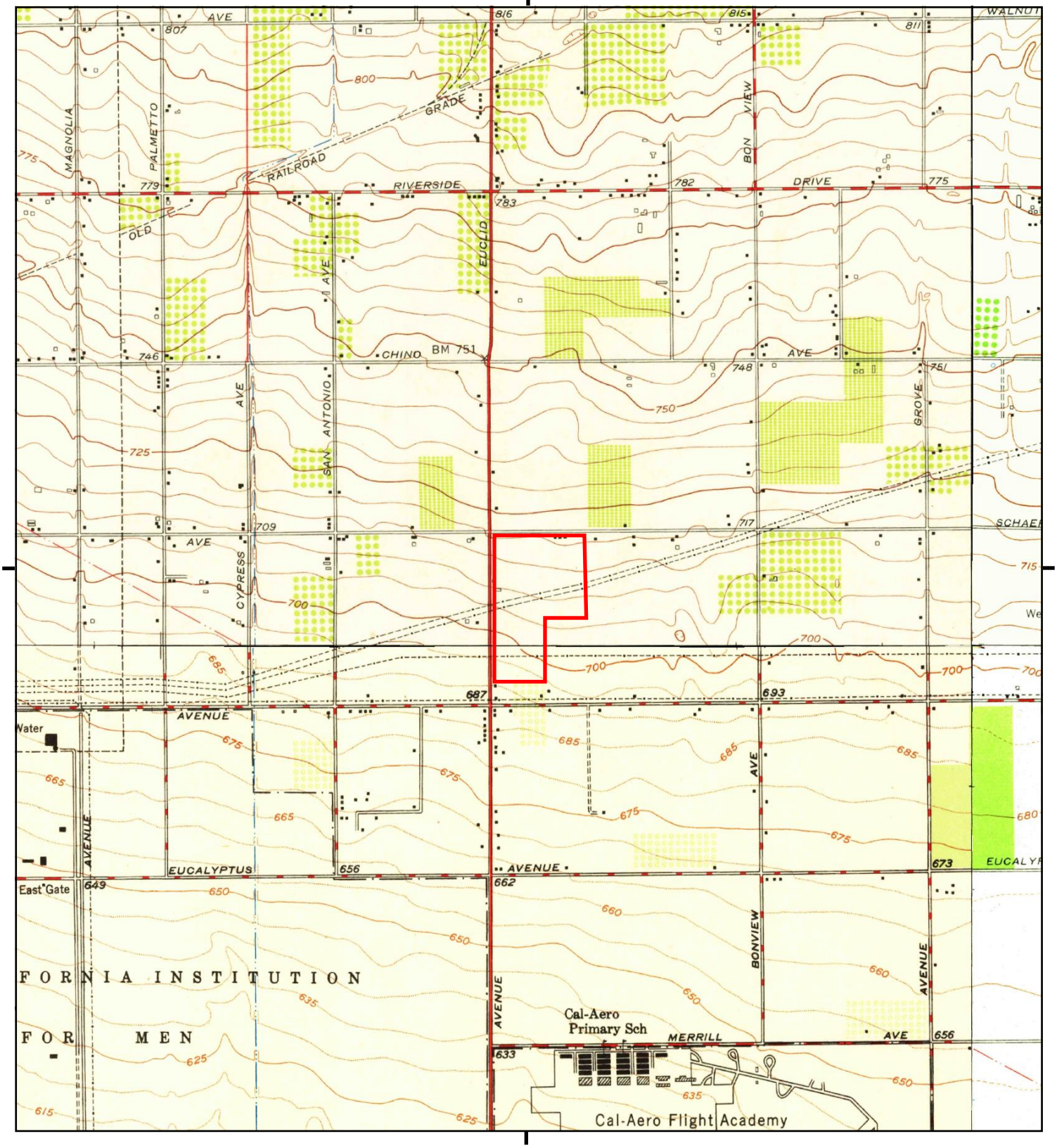
TP, Ontario, 1954, 15-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

Historical Topo Map

1950, 1953, 1954



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

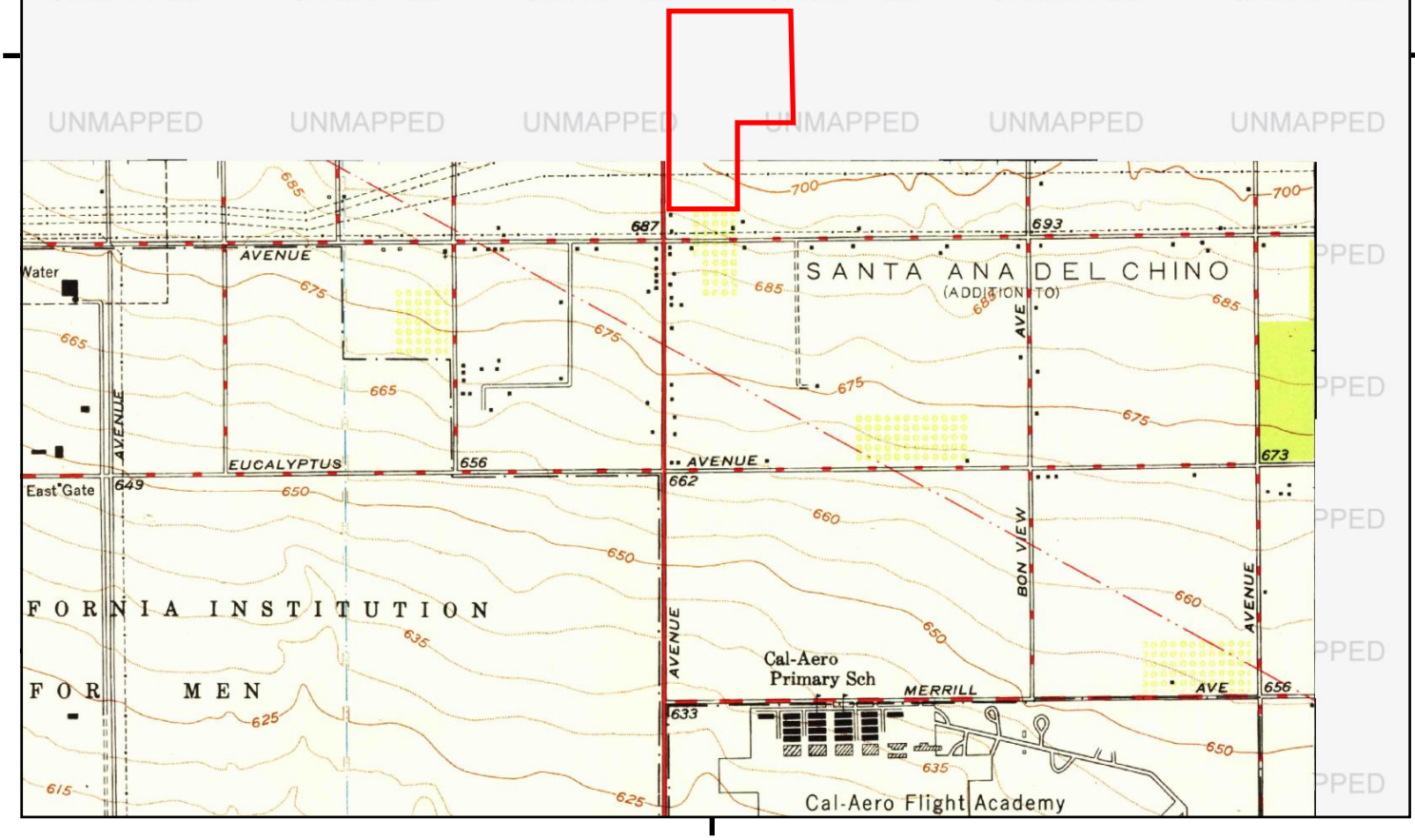
NW N NE
W E
SW S SE

TP, Ontario, 1954, 7.5-minute
NE, Guasti, 1953, 7.5-minute
SE, Corona North, 1954, 7.5-minute
SW, Prado Dam, 1950, 7.5-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

UNMAPPED



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

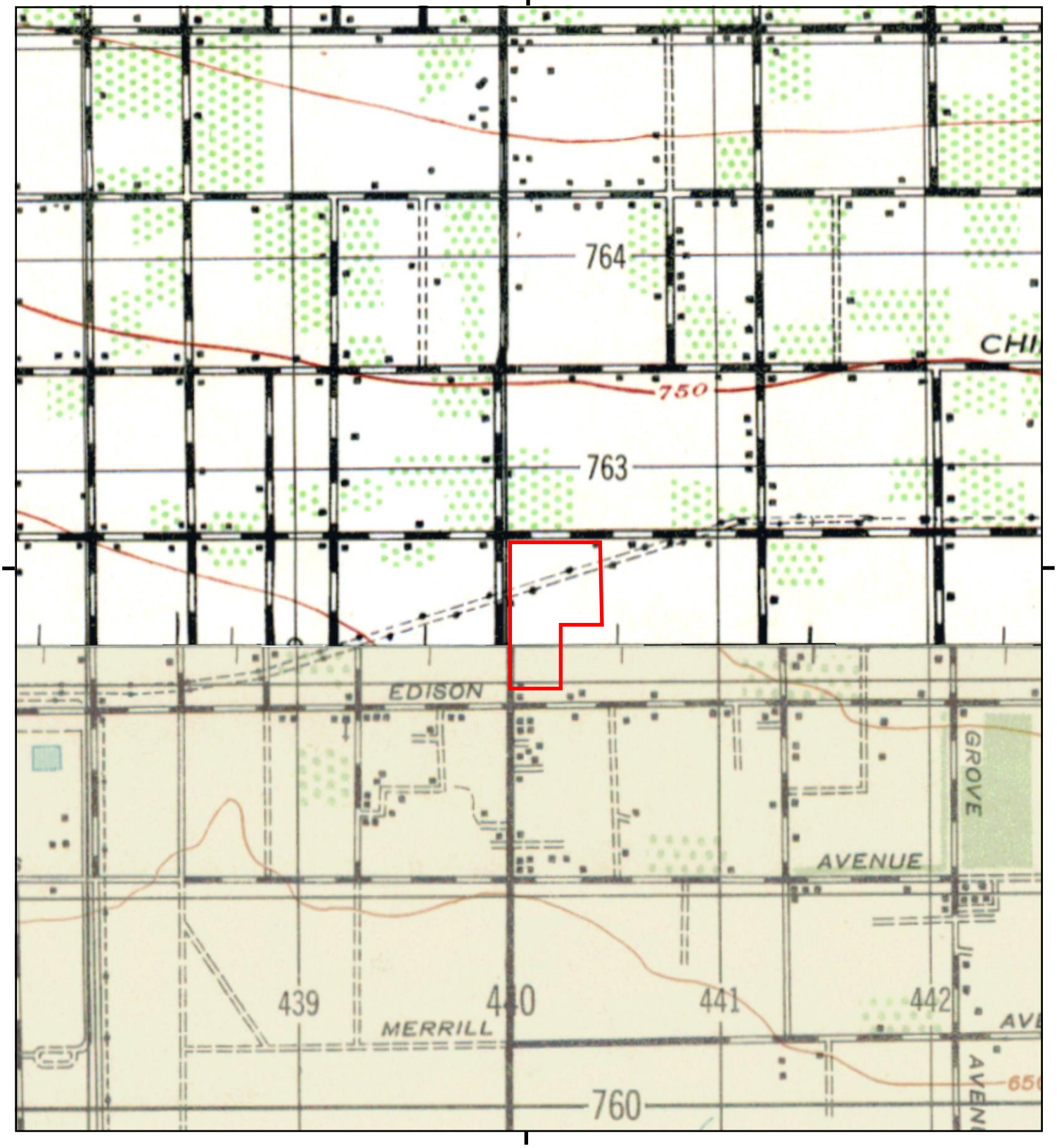
SW, Prado Dam, 1949, 7.5-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

Historical Topo Map

1944, 1947



This report includes information from the following map sheet(s).

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NW N NE
W E
SW S SE

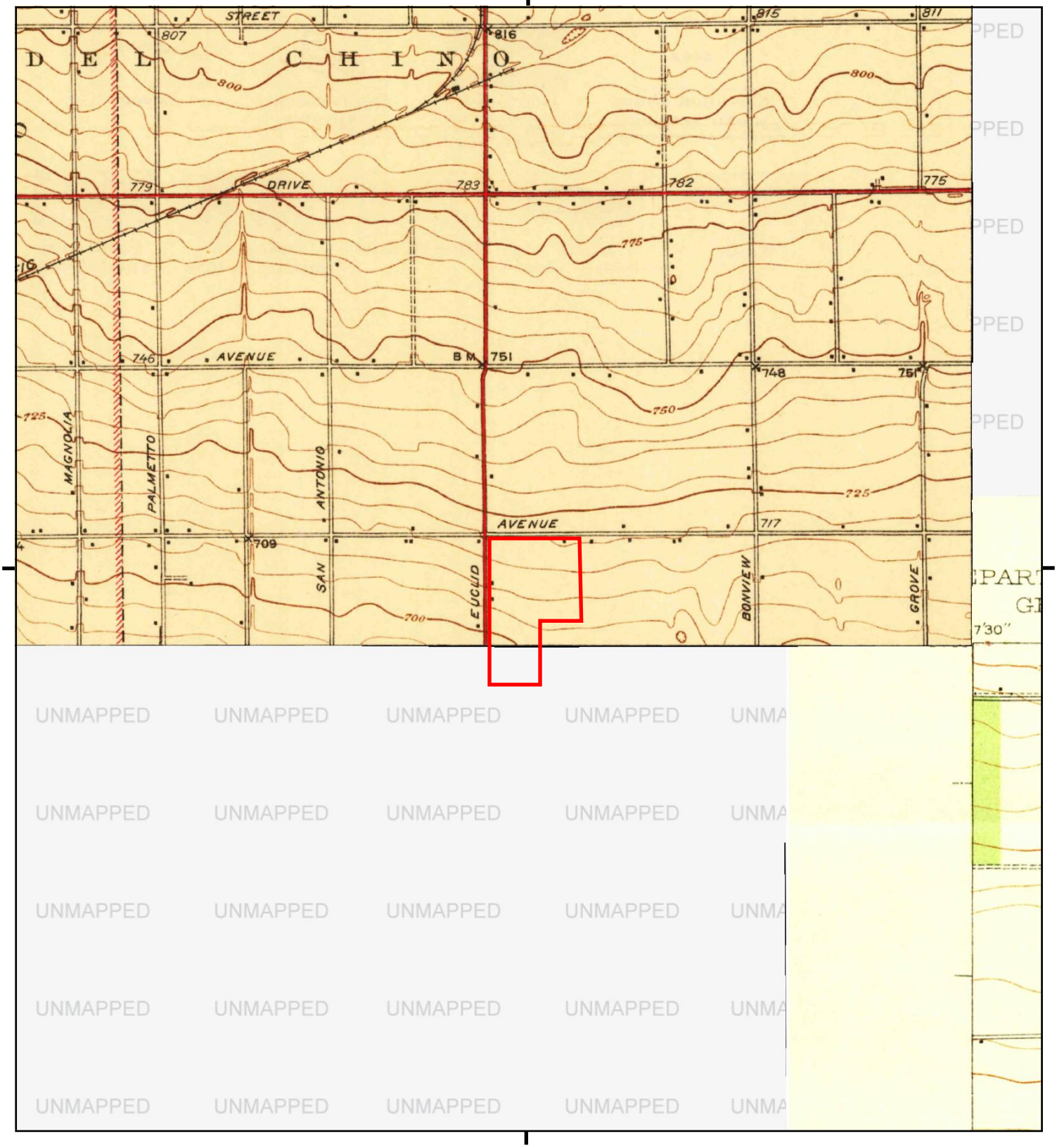
TP, CUCAMONGA, 1944, 15-minute
S, CORONA, 1947, 15-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

Historical Topo Map

1942



This report includes information from the following map sheet(s).

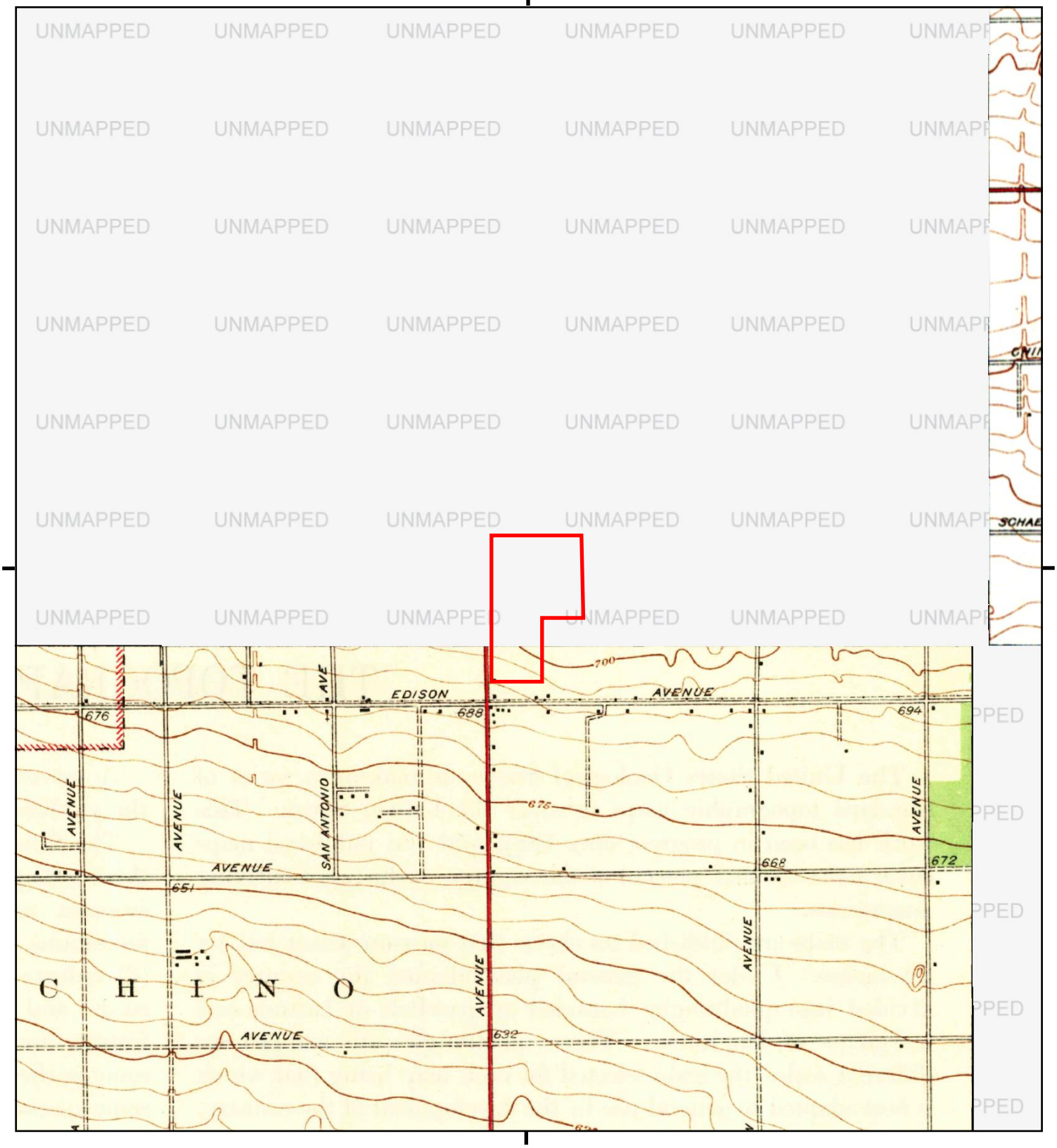
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ontario and Vicinity, 1942, 7.5-minute
SE, Corona and Vicinity, 1942, 7.5-minute

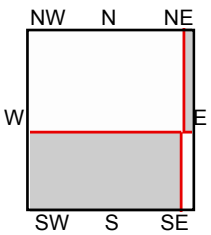
SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5



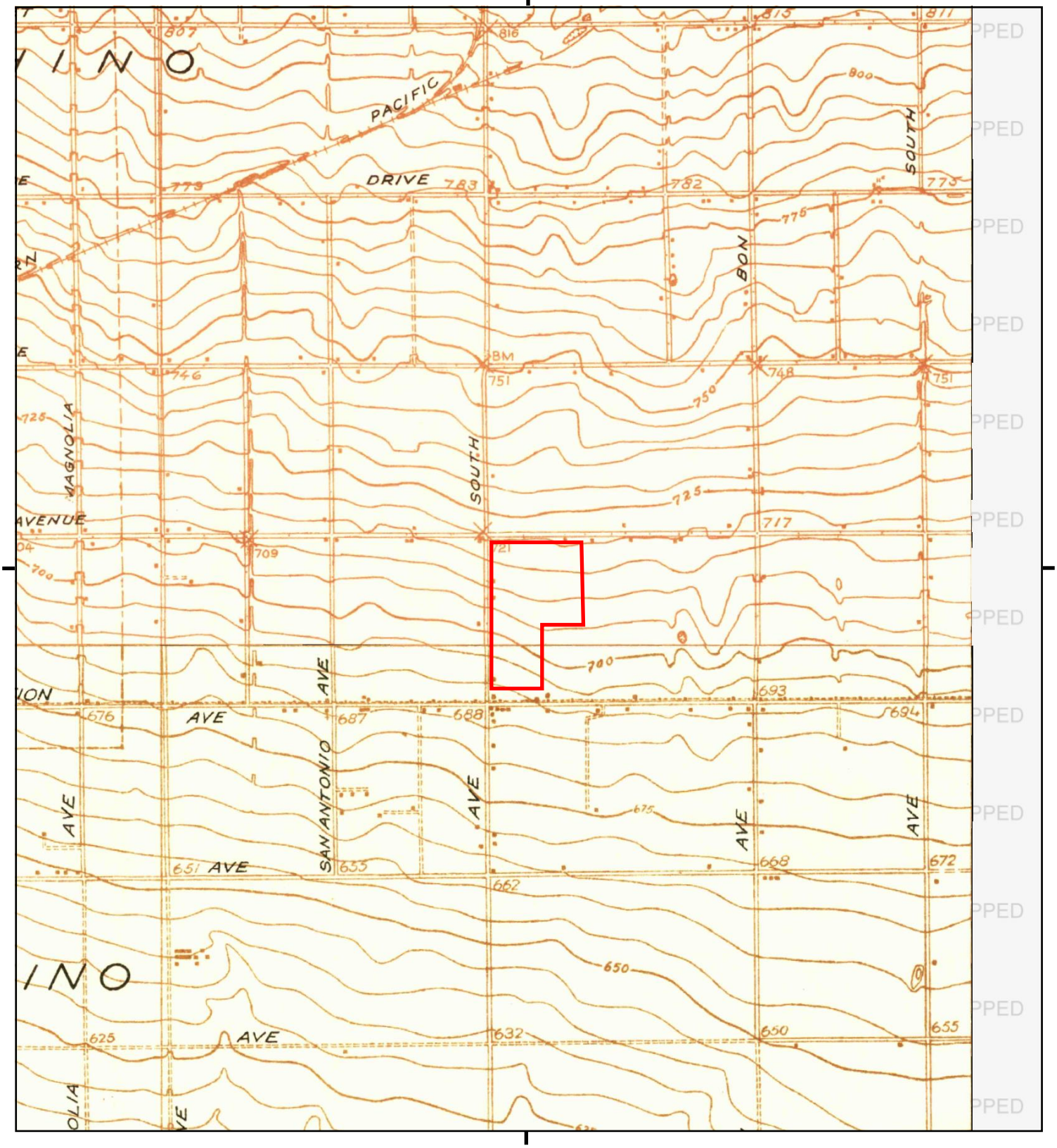
NE, GUASTI VICINITY, 1941, 7.5-minute
SW, Prado, 1941, 7.5-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

Historical Topo Map

1933



This report includes information from the following map sheet(s).

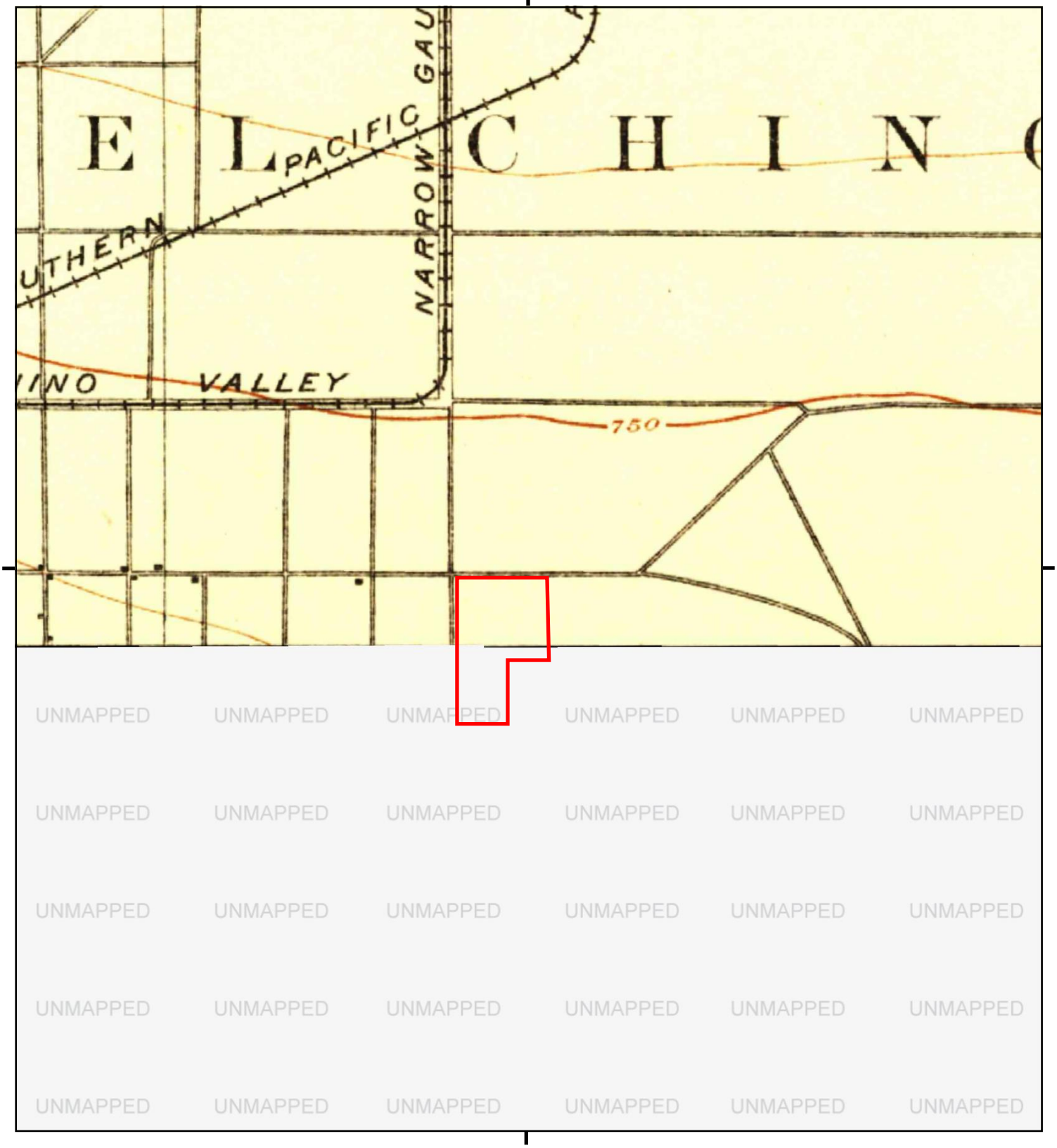
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Ontario, 1933, 7.5-minute
SW, Prado, 1933, 7.5-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

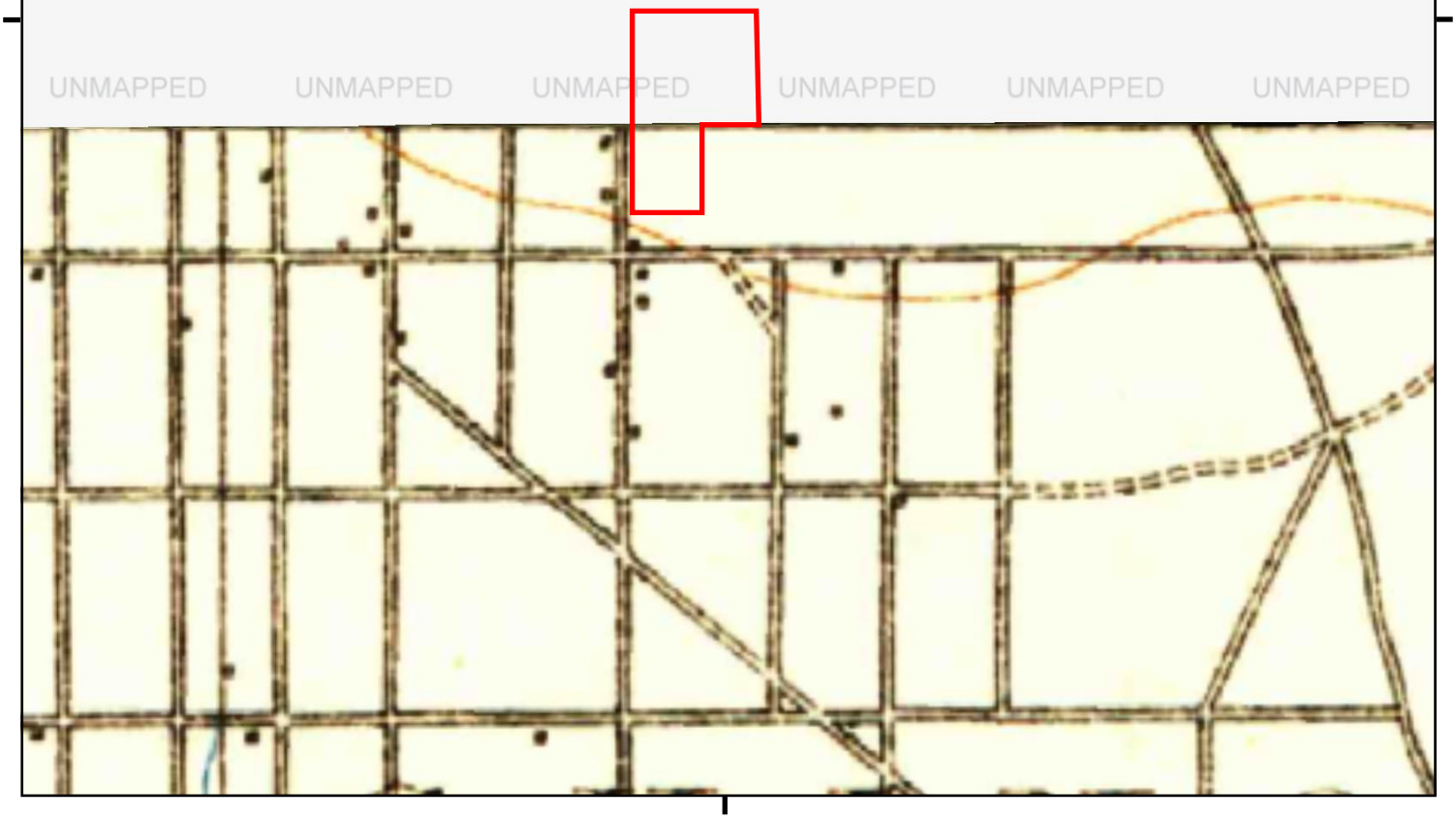
NW N NE
W E
SW S SE

TP, Cucamonga, 1903, 15-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

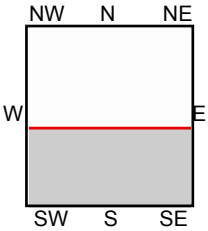
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UNMAPPED



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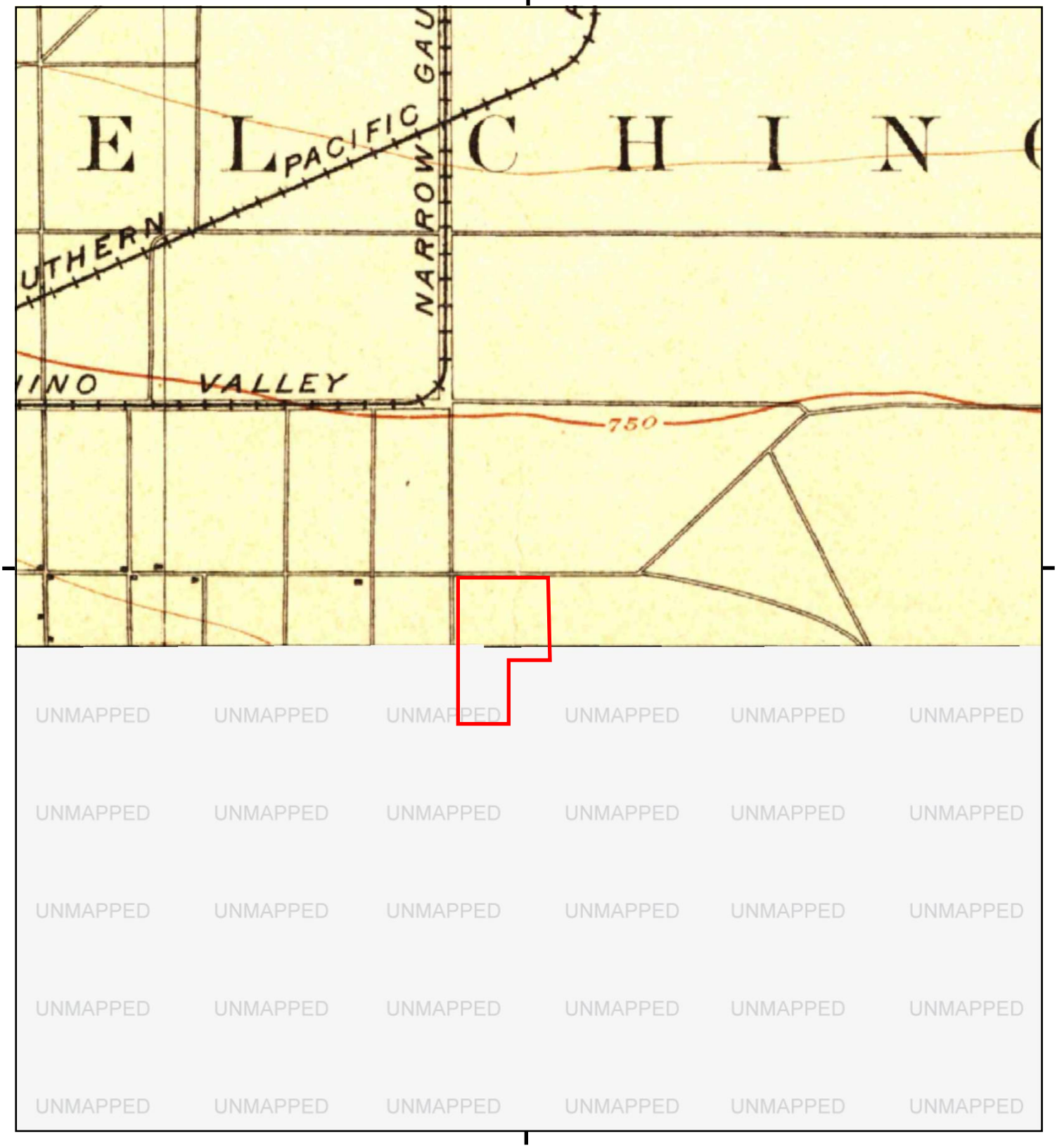
0 Miles 0.25 0.5 1 1.5



S, Corona, 1902, 30-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N



This report includes information from the following map sheet(s).

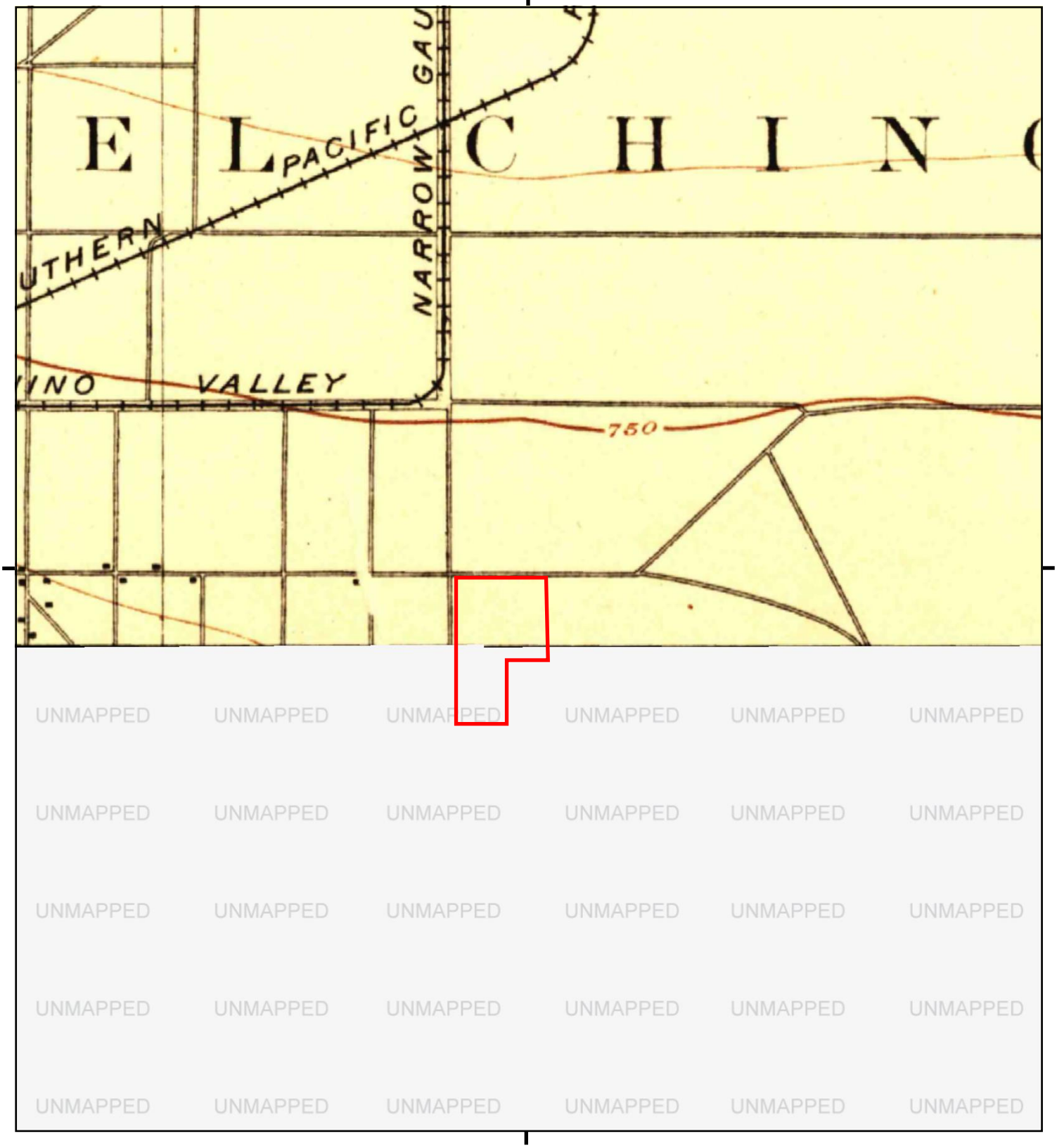
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1900, 15-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Cucamonga, 1897, 15-minute

SITE NAME: RCCD Inc./60-Acre Property IN Ontario
ADDRESS: Euclid Avenue and Schaefer Avenue
Ontario, CA 91762
CLIENT: Converse Consultants

N

RCCD Inc./60-Acre Property IN Ontario

Euclid Avenue and Schaefer Avenue

Ontario, CA 91762

Inquiry Number: 6550948.8

June 23, 2021

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/23/21

Site Name:

RCCD Inc./60-Acre Property IN
Euclid Avenue and Schaefer Av
Ontario, CA 91762
EDR Inquiry # 6550948.8

Client Name:

Converse Consultants
717 S Myrtle Ave
Monrovia, CA 91016
Contact: Kaspar Wittlinger

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	*Scale*	*Details*	*Source*
2016	1"=500'	Flight Year: 2016	USDA/NAIP
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2006	1"=500'	Flight Year: 2006	USDA/NAIP
2002	1"=500'	Acquisition Date: January 01, 2002	USGS/DOQQ
1994	1"=500'	Acquisition Date: June 01, 1994	USGS/DOQQ
1990	1"=500'	Flight Date: August 29, 1990	USDA
1989	1"=500'	Flight Date: August 03, 1989	USDA
1985	1"=500'	Flight Date: September 13, 1985	USDA
1975	1"=500'	Flight Date: August 01, 1975	USGS
1966	1"=500'	Flight Date: April 16, 1966	USGS
1959	1"=500'	Flight Date: October 15, 1959	USDA
1953	1"=500'	Flight Date: February 11, 1953	USDA
1948	1"=500'	Flight Date: July 10, 1948	USGS
1946	1"=500'	Flight Date: December 29, 1946	USGS
1938	1"=500'	Flight Date: June 03, 1938	USDA

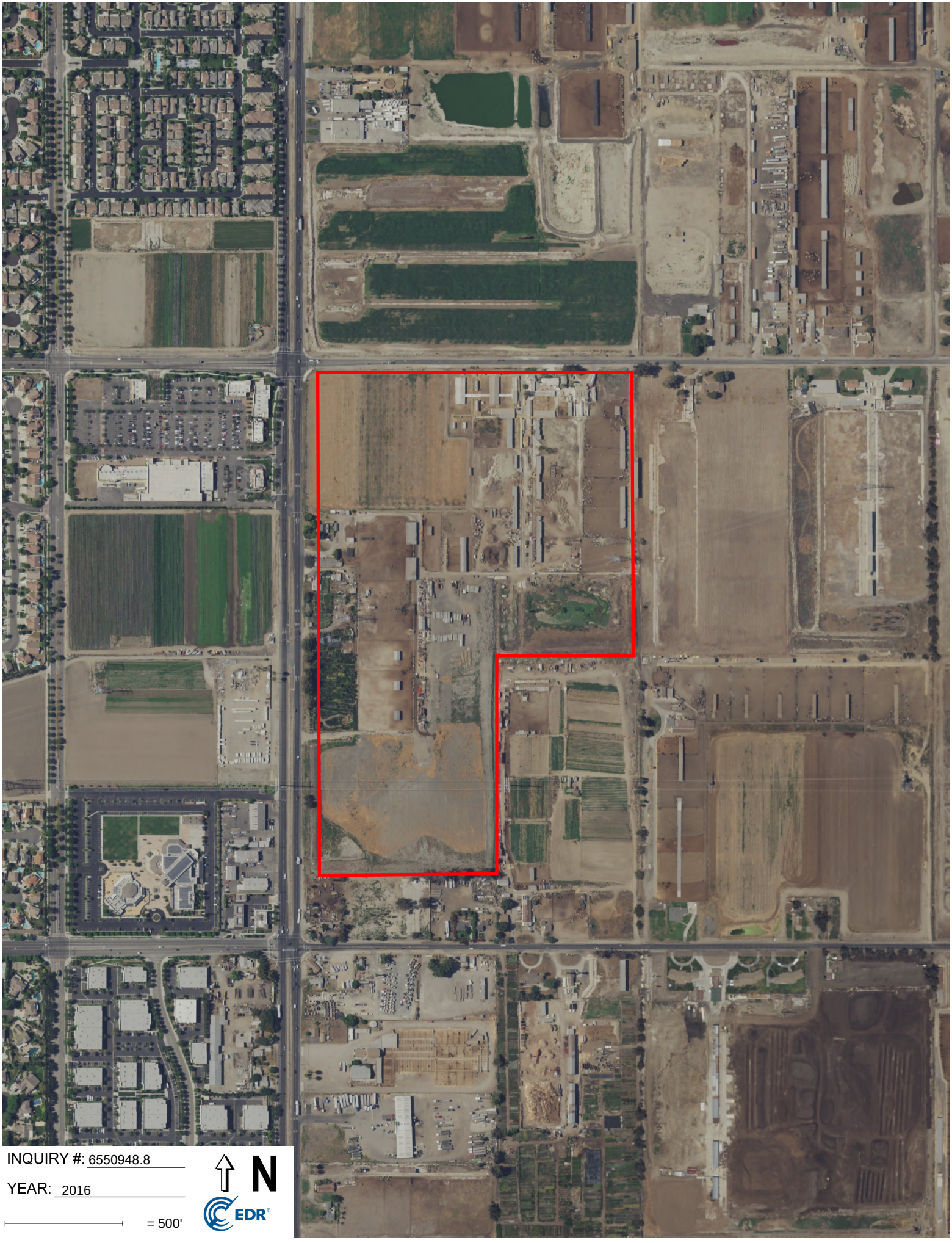
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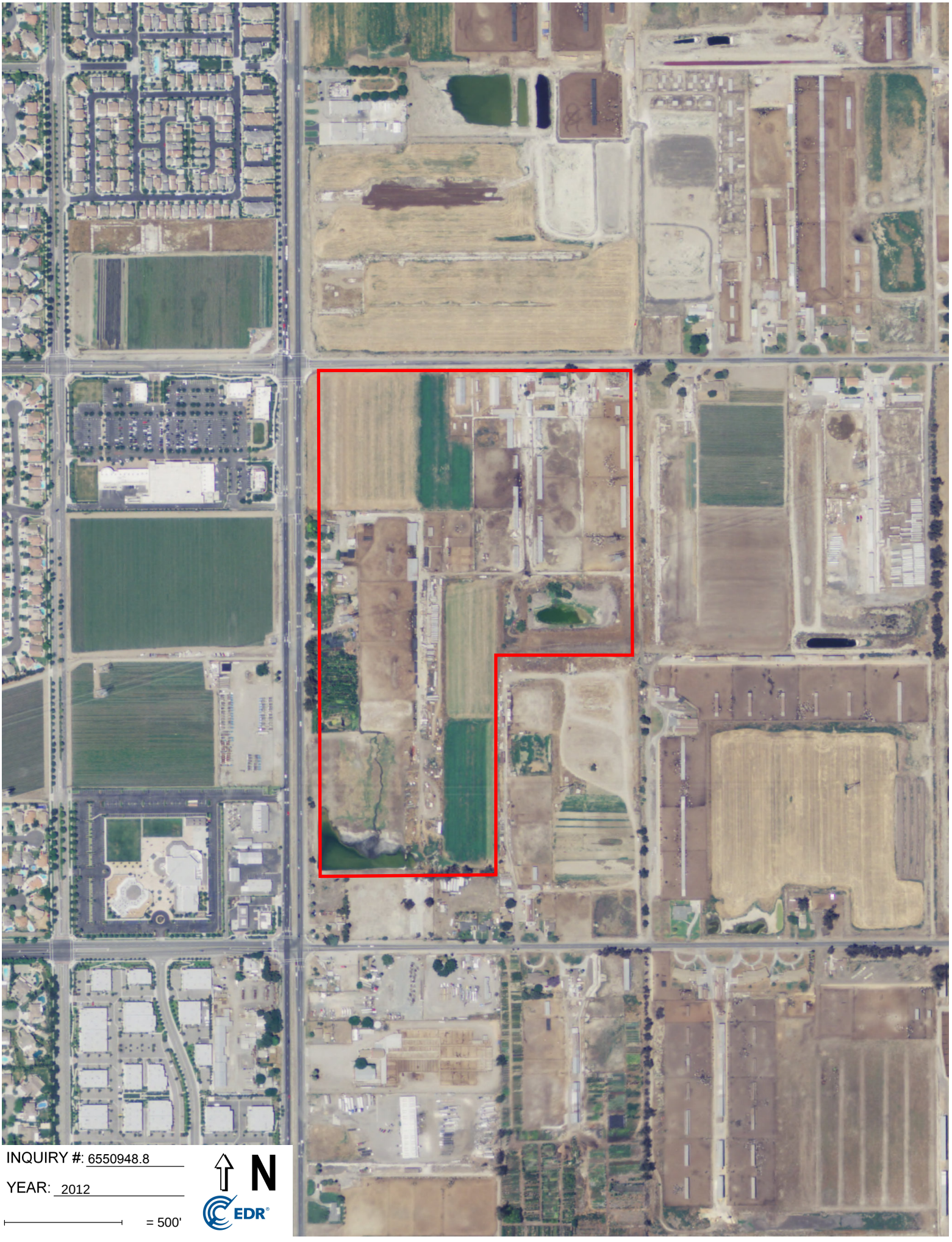
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INQUIRY #: 6550948.8
YEAR: 2016
= 500'
N
EDR


INQUIRY #: 6550948.8
YEAR: 2012
= 500'
N
EDR



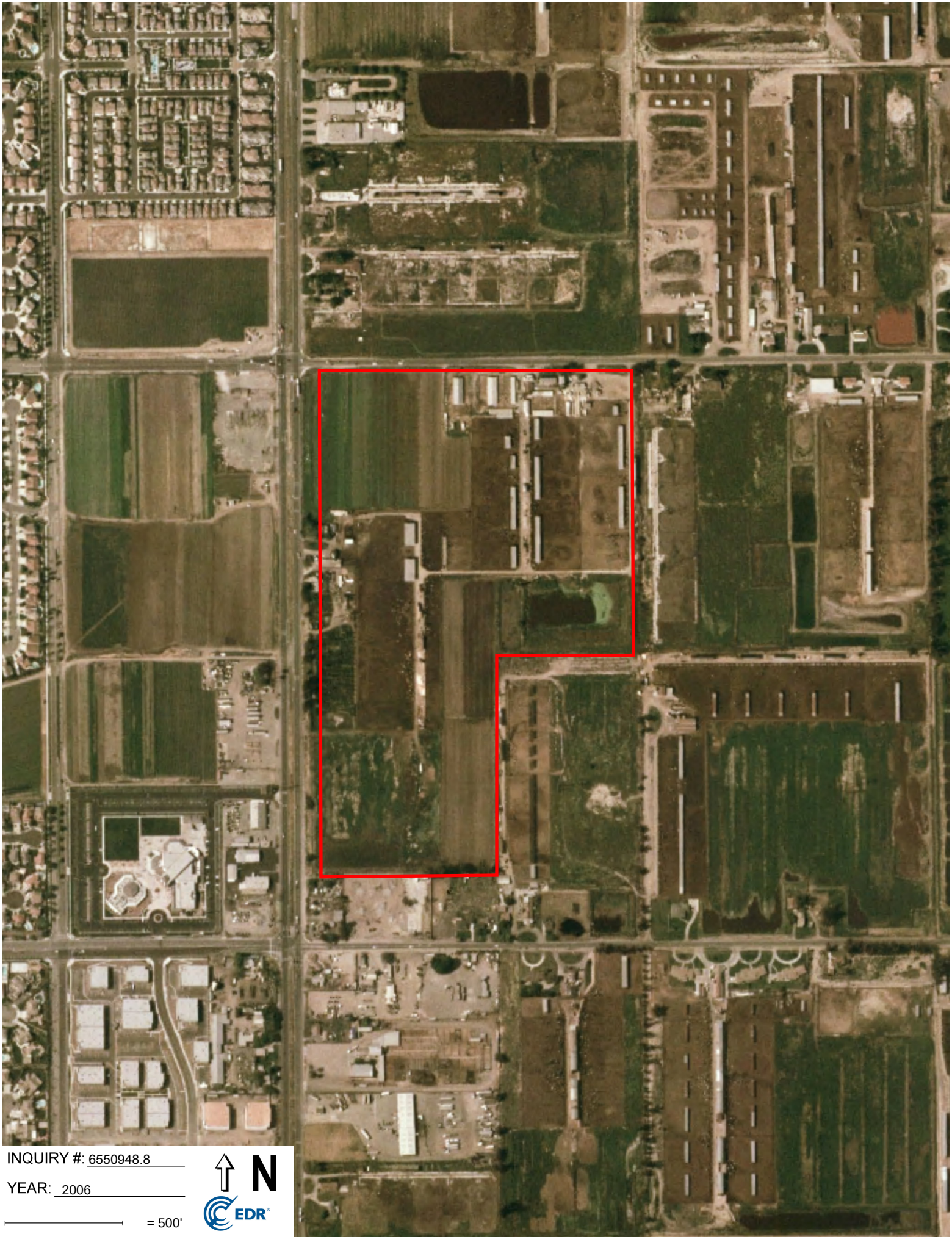
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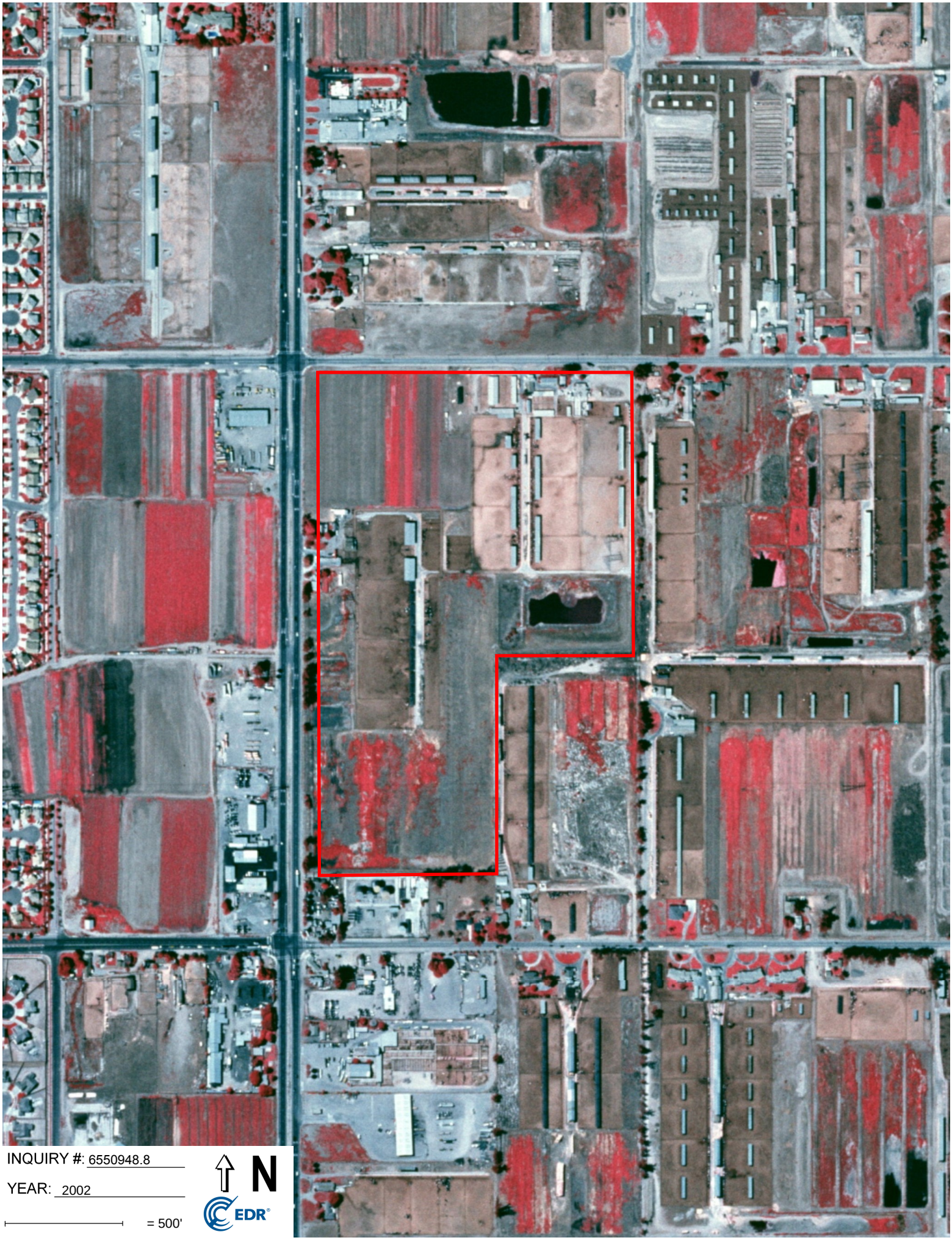
YEAR: 2009

= 500'

N

EDR


INQUIRY #: 6550948.8
YEAR: 2006
= 500'
N
EDR



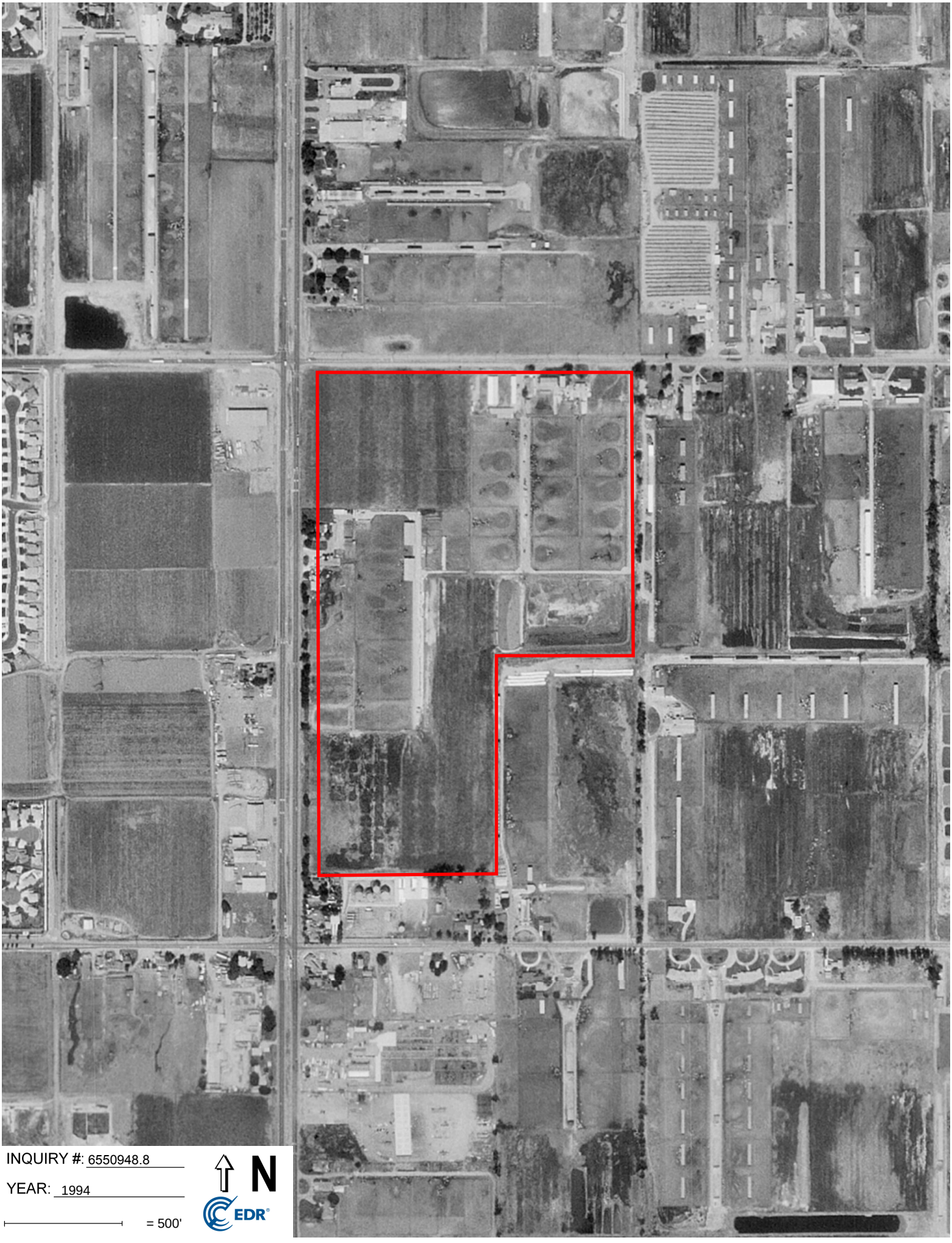
INQUIRY #: 6550948.8

YEAR: 2002

= 500'

N

EDR


INQUIRY #: 6550948.8
YEAR: 1994
= 500'
N
EDR



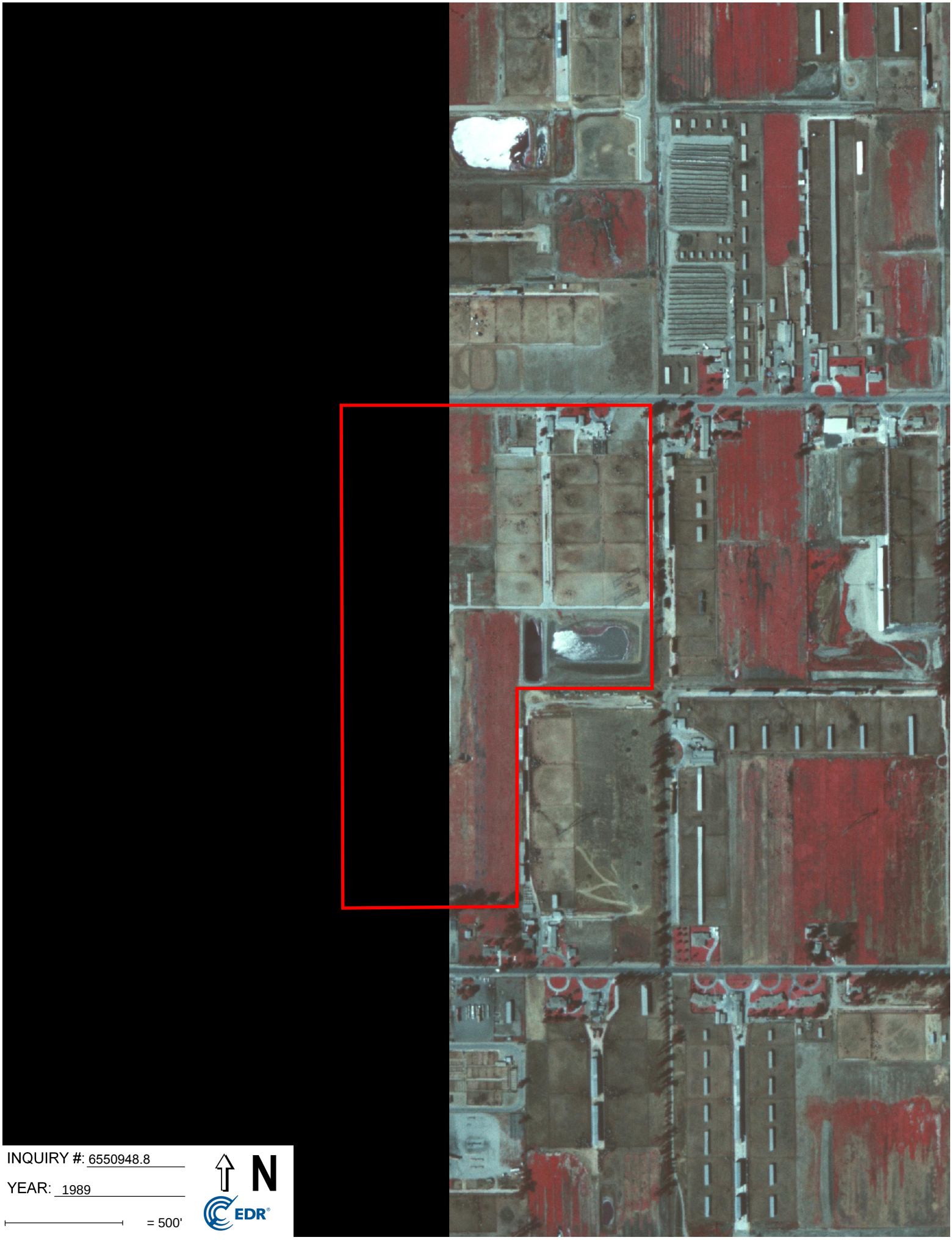
INQUIRY #: 6550948.8

YEAR: 1990

= 500'

N

EDR



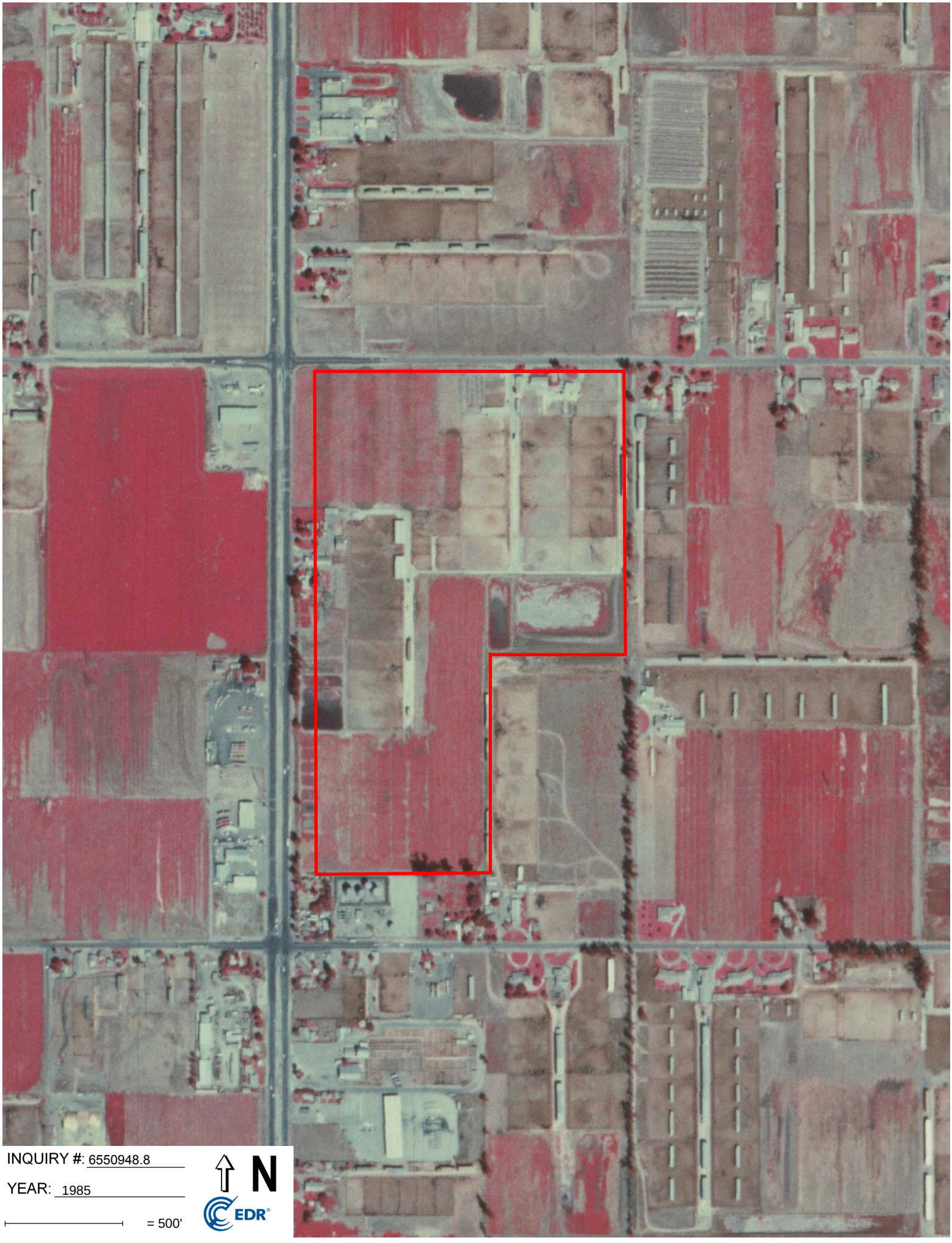
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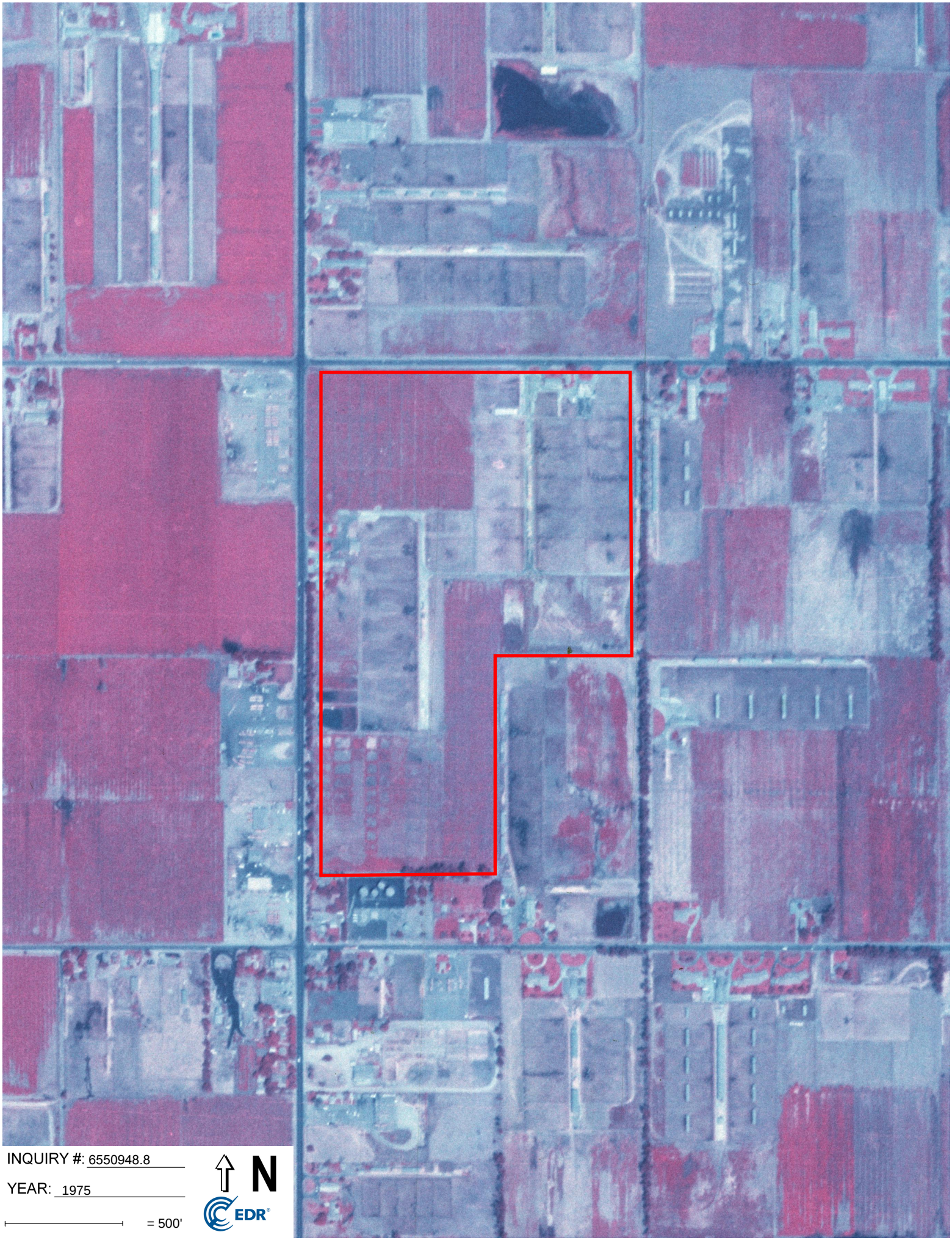
YEAR: 1989

= 500'

N

EDR


INQUIRY #: 6550948.8
YEAR: 1985
= 500'
N
EDR


INQUIRY #: 6550948.8
YEAR: 1975
= 500'
N
EDR


INQUIRY #: 6550948.8
YEAR: 1966
= 500'
N
EDR



INQUIRY #: 6550948.8

YEAR: 1959

= 500'

N

EDR


INQUIRY #: 6550948.8
YEAR: 1953
= 500'
N
EDR



INQUIRY #: 6550948.8

YEAR: 1948

= 500'

N

EDR


INQUIRY #: 6550948.8
YEAR: 1946
= 500'
N
EDR



INQUIRY #: 6550948.8

YEAR: 1938

= 500'

N

EDR

RCCD Inc./60-Acre Property IN Ontario
Euclid Avenue and Schaefer Avenue
Ontario, CA 91762

Inquiry Number: 6550948.5
June 23, 2021

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

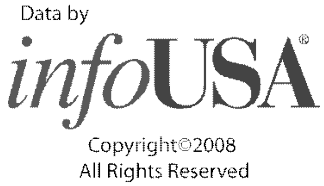
Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1922 through 2017. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

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RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2017	Cole Information Services	-	-	-	-
2014	Cole Information Services	-	-	-	-
2009	Cole Information Services	-	-	-	-
2008	Haines Company, Inc.	-	X	X	-
2004	Cole Information Services	-	X	X	-
2003	Haines & Co Publishers	-	X	X	-
2002	Cole Information Services	-	-	-	-
1999	Cole Information Services	-	-	-	-
1996	GTE	-	-	-	-
1995	GTE Directories	-	-	-	-
1994	Cole Information Services	-	-	-	-
1991	GTE California Incorporated	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1990	GTE California Incorporated	-	-	-	-
1985	GTE	-	-	-	-
1981	General Telephone Company of California	-	-	-	-
1980	GTE	-	-	-	-
1975	GTE Directories	-	X	X	-
1970	General Telephone Company of California	-	-	-	-
1965	GTE	-	X	X	-
1964	Luskey Brothers & Co	-	-	-	-
1961	Luskey Brothers& Co Publishers	-	-	-	-
1960	Luskey Brothers & Co Publishers	-	-	-	-
1956	General Telephone Company Publishers	-	-	-	-
1955	Luskey Brothers Co Publishers	-	-	-	-
1951	Los Angeles Directory Co Publishers	-	-	-	-
1950	The Pacific Telephone and Telegraph Co	-	-	-	-
1949	San Bernardino Directory Co. Publishers	-	-	-	-
1946	Los Angeles Directory Company Publishers	-	-	-	-
1945	Southern Califronia Telephone Company	-	-	-	-
1942	San Bernardino Directory Co Publisher	-	-	-	-
1941	Associated Telephone Company Limited	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Co.	-	-	-	-
1936	San Bernardino Directory Co Publisher	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1931	Los Angeles Directory Co.	-	-	-	-
1930	San Bernardino Directory Co Publisher	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Company	-	-	-	-
1922	R.L. Polk & Co Publishers	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

Euclid Avenue and Schaefer Avenue
Ontario, CA 91762

FINDINGS DETAIL

Target Property research detail.

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

EUCLID AVE

13813 EUCLID AVE

Year	Uses	Source
2008	MARTIN Tony J	Haines Company, Inc.

EUCLID AVE S

13813 EUCLID AVE S

Year	Uses	Source
2003	TEVELDE Harm	Haines & Co Publishers

S EUCLID AVE

13813 S EUCLID AVE

Year	Uses	Source
1965	HETTINGA HENRY	GTE

13835 S EUCLID AVE

Year	Uses	Source
2004	COCOS NURSERY	Cole Information Services
	HIPOLITO MARTINEZ	Cole Information Services

SCHAEFER AVE

7255 SCHAEFER AVE

Year	Uses	Source
2008	GONZALEZ Ezequiel	Haines Company, Inc.
1975	Artevel Farms	GTE Directories

FINDINGS

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
13813 EUCLID AVE	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
13813 EUCLID AVE S	2017, 2014, 2009, 2008, 2004, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
13813 S EUCLID AVE	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
13835 S EUCLID AVE	2017, 2014, 2009, 2008, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922
7255 SCHAEFER AVE	2017, 2014, 2009, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
Euclid Avenue and Schaefer Avenue	2017, 2014, 2009, 2008, 2004, 2003, 2002, 1999, 1996, 1995, 1994, 1991, 1990, 1985, 1981, 1980, 1975, 1970, 1965, 1964, 1961, 1960, 1956, 1955, 1951, 1950, 1949, 1946, 1945, 1942, 1941, 1940, 1938, 1936, 1934, 1931, 1930, 1926, 1923, 1922

Appendix E -

EDR-Radius Map Report

RCCD Inc./60-Acre Property IN Ontario
Euclid Avenue and Schaefer Avenue
Ontario, CA 91762

Inquiry Number: 6550948.2s
June 24, 2021

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

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Detail Map	3
Map Findings Summary	4
Map Findings	9
Orphan Summary	246
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-8
Physical Setting Source Map Findings	A-10
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), the ASTM Standard Practice for Environmental Site Assessments for Forestland or Rural Property (E 2247-16), the ASTM Standard Practice for Limited Environmental Due Diligence: Transaction Screen Process (E 1528-14) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

EUCLID AVENUE AND SCHAEFER AVENUE
ONTARIO, CA 91762

COORDINATES

Latitude (North):	34.0033010 - 34° 0' 11.88''
Longitude (West):	117.6486490 - 117° 38' 55.13''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	440099.2
UTM Y (Meters):	3762517.2
Elevation:	717 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5619074 ONTARIO, CA
Version Date:	2012
Northeast Map:	5620426 GUASTI, CA
Version Date:	2012
Southeast Map:	5640930 CORONA NORTH, CA
Version Date:	2012
Southwest Map:	5640938 PRADO DAM, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140603
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
EUCLID AVENUE AND SCHAEFER AVENUE
ONTARIO, CA 91762

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
1	DRAKE FAMILY FARMS	7255 SCHAEFER AVE	San Bern. Co. Permit, CERS	Higher	9, 0.002, NNE
A2	R J LANTING	13926 EUCLID	RCRA-SQG, FINDS, ECHO, HAZNET, HWTS	Lower	22, 0.004, SSW
B3	STERLING TRUCK EQUIP	14095 S EUCLID AVE	San Bern. Co. Permit	Lower	52, 0.010, South
C4	ART VENEGAS DAIRY	13835 EUCLID AVE	San Bern. Co. Permit, HWTS	Lower	84, 0.016, SW
C5	ART VENEGAS DAIRY -	13835 EUCLID AVENUE	CERS HAZ WASTE, ENF, San Bern. Co. Permit, CIWQS,...	Lower	84, 0.016, SW
D6	FIKSE & CO	13710 SO EUCLID	RCRA-SQG, LUST, FINDS, ECHO, HAZNET, HIST CORTESE,..	Higher	160, 0.030, NW
D7	FIKSE AND COMPANY	13710 S EUCLID AVE	LUST, Cortese, San Bern. Co. Permit, CERS	Higher	181, 0.034, NW
E8	CABOT INVESTMENTS	13926	LUST, HIST CORTESE	Lower	205, 0.039, SW
E9	CABOT INVESTMENTS	13926 S EUCLID AVE	LUST, Cortese, CERS	Lower	205, 0.039, SW
F10	GERMANIA DAIRY CENTE	14058 EUCLID AVE	SWEEPS UST, CA FID UST	Lower	221, 0.042, SSW
F11	VETERINARIAN'S OUTLE	14058 S EUCLID AVE B	San Bern. Co. Permit	Lower	221, 0.042, SSW
F12	VETERINARIAN'S OUTLE	14058 EUCLID AVE	Cortese, HAZNET, CERS, HWTS	Lower	221, 0.042, SSW
F13	VETERINARIAN'S OUTLE	14058 EUCLID AVE	LUST, CHMIRS, HIST CORTESE, San Bern. Co. Permit,...	Lower	221, 0.042, SSW
A14	WEST COAST SAND & GR	13948 EUCLID AVE	San Bern. Co. Permit	Lower	222, 0.042, SSW
A15	VALLEY HAY COMPANY	14042 S EUCLID AVE	LUST, CERS HAZ WASTE, CERS TANKS, Cortese, San...	Lower	222, 0.042, SSW
A16	EZH INC	14042 EUCLID AVE	CERS HAZ WASTE, HAZNET, CERS	Lower	222, 0.042, SSW
A17	ROBERT FORD TRUCKING	14042 EUCLID AVE	UST	Lower	222, 0.042, SSW
A18	VALLEY HAY COMPANY	14042 EUCLID AVE	LUST, HIST CORTESE, San Bern. Co. Permit	Lower	222, 0.042, SSW
A19	ROBERT FORD TRUCKING	14042 S EUCLID AVE	UST	Lower	222, 0.042, SSW
A20	EZH, INC	14042 EUCLID AVE	RCRA NonGen / NLR	Lower	222, 0.042, SSW
B21	VERIZON WIRELESS: CO	7152 EDISON AVE	San Bern. Co. Permit	Lower	289, 0.055, South
F22	CHEVRON 307826 H&S E	14088 EUCLID AVE	RCRA NonGen / NLR	Lower	292, 0.055, SSW
F23	EMJ INVESTMENT INC	14088 EUCLID AVE	RCRA NonGen / NLR	Lower	292, 0.055, SSW
F24	CHINO CHEVRON	14088 EUCLID AVE	UST	Lower	292, 0.055, SSW
F25	EMJ INVESTMENT INC	14088 EUCLID AVE	CERS HAZ WASTE, CERS TANKS, HAZNET, San Bern. Co....	Lower	292, 0.055, SSW
26	CARL'S JR #458	7069 SCHAEFER	San Bern. Co. Permit	Lower	302, 0.057, West
F27	DORA PICKERING	14080 EUCLID AVE	HIST UST	Lower	316, 0.060, SSW
G28	E.P. DAIRY REPAIR AN	7316 SCHAEFER	San Bern. Co. Permit	Higher	321, 0.061, ENE
H29	EUCLID PUMP STATION	7152 EUCLID AVE	HIST UST	Lower	331, 0.063, South
H30	MARS MARKET	14107 S EUCLID AVE	LUST, SWEEPS UST, HIST UST, CA FID UST, Cortese,...	Lower	388, 0.073, SSW
I31	CHARLIE TADEMA INC.	7145 EDISON AVE	San Bern. Co. Permit	Lower	405, 0.077, South
I32	CHARLIE TADEMA INC.	7145 EDISON AVE	UST	Lower	405, 0.077, South
J33	DORA PICKERING	7050 EDISONA VE	HIST UST	Lower	412, 0.078, SSW
J34	MAR'S MARKET	14107	LUST, HIST CORTESE	Lower	480, 0.091, SSW
G35	STUART GLENN	7345 SCHAEFER AVE	SWF/LF, HAZNET, San Bern. Co. Permit, HWTS	Higher	490, 0.093, ENE
K36	APOLLO WOOD RECOVERY	7225 EDISON AVE	RCRA NonGen / NLR	Lower	513, 0.097, SSE
K37	DON VAN DAM DAIRY	7225 EDISON AVE	San Bern. Co. Permit	Lower	513, 0.097, SSE
L38	STATER BROS. MARKETS	6989 SCHAEFER AVE	CERS HAZ WASTE, HAZNET, San Bern. Co. Permit,...	Lower	608, 0.115, West
L39	STATER BROS MARKETS	6989 SCHAEFER AVE	RCRA-LQG	Lower	608, 0.115, West

MAPPED SITES SUMMARY

Target Property Address:
EUCLID AVENUE AND SCHAEFER AVENUE
ONTARIO, CA 91762

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
40	FISKE & CO	13710 S EUCLID ST	SWEEPS UST, CA FID UST	Higher	617, 0.117, NW
M41	AG-RODGRIGUEZ, ANTON	7416 SCHAEFER AVE	UST	Higher	628, 0.119, ENE
M42	3 PALMS DAIRY	7416 SCHAEFER	ENF, San Bern. Co. Permit, CIWQS	Higher	628, 0.119, ENE
N43	LB MADOLE CO INC	6995 EDISON AVE	RCRA NonGen / NLR	Lower	797, 0.151, SSW
N44	L B MADOLE CO INC	6995 EDISON	AST, EMI	Lower	797, 0.151, SSW
M45	RODRIGUEZ CALF RANCH	7416 SCHAEFER AVE	HIST UST, WDS	Higher	807, 0.153, ENE
M46	ANTONIO RODRIGUEZ	7416 SCHAEFER	SWEEPS UST, CA FID UST	Higher	807, 0.153, ENE
47	CHINO SMILES	6961 SCHAEFER AVE	RCRA NonGen / NLR	Higher	832, 0.158, WNW
48	QUALITY HAY CO INC	14211 EUCLID AVE	CA FID UST	Lower	923, 0.175, SSW
O49	DUTCH PREMIUM DAIRY	13555 S EUCLID AVE	San Bern. Co. Permit	Higher	956, 0.181, NNW
P50	ALL STAR DRYCLEANER	6939 SCHAEFER AVE ST	DRYCLEANERS, HWTS	Lower	957, 0.181, West
P51	ALL STAR DRYCLEANER	6939 SCHAEFER AVE ST	RCRA NonGen / NLR	Lower	957, 0.181, West
N52	LB MADOLE ENGINEERIN	14179 ALBERS WY	CERS HAZ WASTE, CERS TANKS, NPDES, San Bern. Co....	Lower	1017, 0.193, SSW
Q53	HARVEST- ONTARIO B1	7435 SCHAEFER AVE.	SWF/LF	Higher	1019, 0.193, ENE
Q54	HARVEST- ONTARIO B2	7435 SCHAEFER AVE.	SWF/LF	Higher	1019, 0.193, ENE
55	J.P. LOUBET	14211 EUCLID AVE	LUST, SWEEPS UST, Cortese, HIST CORTESE, CERS	Lower	1034, 0.196, South
Q56	BACHOC DAIRY #3	7445 SCHAEFER AVENUE	ENF, San Bern. Co. Permit, CIWQS	Higher	1051, 0.199, ENE
O57	EZELL SALES, INC.	13545 EUCLID AVE	LUST, HIST UST, Cortese, HIST CORTESE, CERS	Higher	1060, 0.201, NNW
O58	EZELL SALES, INC.	13545 S EUCLID AVE	HIST UST, San Bern. Co. Permit, CERS	Higher	1060, 0.201, NNW
59	ALBERS MFG CO., INC.	14323 ALBERS WAY	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Lower	1131, 0.214, SSW
O60	BRINDERSON DE LAVAL	13529 S EUCLID AVE	HIST UST	Higher	1161, 0.220, North
O61	DAIRY CENTER INC	13529 S EUCLID AVE	HIST UST, San Bern. Co. Permit	Higher	1161, 0.220, North
O62	BRINDERSON DE LAVAL	13529 S EUCLID AVE	SWEEPS UST, CA FID UST	Higher	1161, 0.220, North
O63	SHAREMYCOACHCHINO.CO	13529 EUCLID AVE	RCRA NonGen / NLR	Higher	1161, 0.220, North
R64	GIC TRANSPORT INC	14211 EUCLID AVE	RCRA NonGen / NLR	Lower	1163, 0.220, South
R65	J P LOUBET CO	14211 EUCLID AVE	UST	Lower	1163, 0.220, South
R66	JP LOUBET COMPANY	14211 EUCLID AVE	HIST UST, HAZNET, HWTS	Lower	1163, 0.220, South
R67	WHOLESALE DISTRIBUTI	14211 EUCLID AVE	RCRA NonGen / NLR	Lower	1163, 0.220, South
R68	GIC TRANSPORTATION	14211 EUCLID AVE	CERS HAZ WASTE, San Bern. Co. Permit, CERS	Lower	1163, 0.220, South
S69	EUCLID VETERINARY HO	13525 S EUCLID AVE	SWEEPS UST, CA FID UST	Higher	1286, 0.244, North
S70	EUCLID VETERINARY HO	13525 S EUCLID AVE	HIST UST	Higher	1286, 0.244, North
T71	MATERIAL RECOVERY SO	7325 EDISON AVE	SWF/LF, NPDES, CERS	Lower	1366, 0.259, SE
T72	RESIDUALS RECOVERY G	7325 EDISON RD.	SWF/LF, CERS	Lower	1366, 0.259, SE
73	RECYCLED WOOD PRODUC	12762 S. SULTANA AVE	SWF/LF, CERS	Higher	1443, 0.273, NNE
74	TE VELDE ELEMENTARY	SAN ANTONIO AVENUE/S	ENVIROSTOR, SCH	Lower	2589, 0.490, West
75	COLLEGE PARK SCHOOL	EUCALYPTUS / MOUNTAI	ENVIROSTOR, SCH, CERS	Lower	4974, 0.942, WSW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

Federal CERCLIS list

FEDERAL FACILITY ---------- Federal Facility Site Information listing
SEMS ---------- Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE ---------- Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS ---------- Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF ---------- RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-VSQG ---------- RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

Federal institutional controls / engineering controls registries

LUCIS ---------- Land Use Control Information System
US ENG CONTROLS ---------- Engineering Controls Sites List
US INST CONTROLS ---------- Institutional Controls Sites List

EXECUTIVE SUMMARY

Federal ERNS list

ERNS ---------- Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE ---------- State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST ---------- Leaking Underground Storage Tanks on Indian Land
CPS-SLIC ---------- Statewide SLIC Cases

State and tribal registered storage tank lists

FEMA UST ---------- Underground Storage Tank Listing
INDIAN UST ---------- Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP ---------- Voluntary Cleanup Program Properties
INDIAN VCP ---------- Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS ---------- Considered Brownfieds Sites Listing

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ---------- A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ---------- Waste Management Unit Database
SWRCY ---------- Recycler Database
HAULERS ---------- Registered Waste Tire Haulers Listing
INDIAN ODI ---------- Report on the Status of Open Dumps on Indian Lands
ODI ---------- Open Dump Inventory
DEBRIS REGION 9 ---------- Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ---------- Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL ---------- Delisted National Clandestine Laboratory Register
HIST Cal-Sites ---------- Historical Calsites Database
SCH ---------- School Property Evaluation Program
CDL ---------- Clandestine Drug Labs
Toxic Pits ---------- Toxic Pits Cleanup Act Sites
US CDL ---------- National Clandestine Laboratory Register
PFAS ---------- PFAS Contamination Site Location Listing

Local Land Records

LIENS ---------- Environmental Liens Listing

LIENS 2 ---------- CERCLA Lien Information
DEED ---------- Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ---------- Hazardous Materials Information Reporting System
CHMIRS ---------- California Hazardous Material Incident Report System
LDS ---------- Land Disposal Sites Listing
MCS ---------- Military Cleanup Sites Listing
SPILLS 90 ---------- SPILLS 90 data from FirstSearch

Other Ascertainable Records

FUDS ---------- Formerly Used Defense Sites
DOD ---------- Department of Defense Sites
SCRD DRYCLEANERS ---------- State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ---------- Financial Assurance Information
EPA WATCH LIST ---------- EPA WATCH LIST
2020 COR ACTION ---------- 2020 Corrective Action Program List
TSCA ---------- Toxic Substances Control Act
TRIS ---------- Toxic Chemical Release Inventory System
SSTS ---------- Section 7 Tracking Systems
ROD ---------- Records Of Decision
RMP ---------- Risk Management Plans
RAATS ---------- RCRA Administrative Action Tracking System
PRP ---------- Potentially Responsible Parties
PADS ---------- PCB Activity Database System
ICIS ---------- Integrated Compliance Information System
FTTS ---------- FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS ---------- Material Licensing Tracking System
COAL ASH DOE ---------- Steam-Electric Plant Operation Data
COAL ASH EPA ---------- Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER ---------- PCB Transformer Registration Database
RADINFO ---------- Radiation Information Database
HIST FTTS ---------- FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS ---------- Incident and Accident Data
CONSENT ---------- Superfund (CERCLA) Consent Decrees
INDIAN RESERV ---------- Indian Reservations
FUSRAP ---------- Formerly Utilized Sites Remedial Action Program
UMTRA ---------- Uranium Mill Tailings Sites
LEAD SMELTERS ---------- Lead Smelter Sites
US AIRS ---------- Aerometric Information Retrieval System Facility Subsystem
US MINES ---------- Mines Master Index File
ABANDONED MINES ---------- Abandoned Mines
FINDS ---------- Facility Index System/Facility Registry System
DOCKET HWC ---------- Hazardous Waste Compliance Docket Listing
UXO ---------- Unexploded Ordnance Sites
ECHO ---------- Enforcement & Compliance History Information
FUELS PROGRAM ---------- EPA Fuels Program Registered Listing
CA BOND EXP. PLAN ---------- Bond Expenditure Plan
CUPA Listings ---------- CUPA Resources List
EMI ---------- Emissions Inventory Data
ENF ---------- Enforcement Action Listing
Financial Assurance ---------- Financial Assurance Information Listing

HAZNET Facility and Manifest Data
ICE ICE
HWP EnviroStor Permitted Facilities Listing
HWT Registered Hazardous Waste Transporter Database
MINES Mines Site Location Listing
MWMP Medical Waste Management Program Listing
NPDES NPDES Permits Listing
PEST LIC Pesticide Regulation Licenses Listing
PROC Certified Processors Database
Notify 65 Proposition 65 Records
UIC UIC Listing
UIC GEO UIC GEO (GEOTRACKER)
WASTEWATER PITS Oil Wastewater Pits Listing
WDS Waste Discharge System
WIP Well Investigation Program Case List
MILITARY PRIV SITES MILITARY PRIV SITES (GEOTRACKER)
PROJECT PROJECT (GEOTRACKER)
WDR Waste Discharge Requirements Listing
CIWQS California Integrated Water Quality System
CERS CERS
NON-CASE INFO NON-CASE INFO (GEOTRACKER)
OTHER OIL GAS OTHER OIL & GAS (GEOTRACKER)
PROD WATER PONDS PROD WATER PONDS (GEOTRACKER)
SAMPLING POINT SAMPLING POINT (GEOTRACKER)
WELL STIM PROJ Well Stimulation Project (GEOTRACKER)
HWTS Hazardous Waste Tracking System
MINES MRDS Mineral Resources Data System

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP EDR Proprietary Manufactured Gas Plants
EDR Hist Auto EDR Exclusive Historical Auto Stations
EDR Hist Cleaner EDR Exclusive Historical Cleaners

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF Recovered Government Archive Solid Waste Facilities List
RGA LUST Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 03/22/2021 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
STATER BROS MARKETS EPA ID:: CAL000340385	6989 SCHAEFER AVE	W 0 - 1/8 (0.115 mi.)	L39	143

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 03/22/2021 has revealed that there are 2 RCRA-SQG sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIKSE & CO EPA ID:: CAD982473571	***13710 SO EUCLID***	***NW 0 - 1/8 (0.030 mi.)***	***D6***	***30***

Lower Elevation	Address	Direction / Distance	Map ID	Page
R J LANTING EPA ID:: CAD982473753	***13926 EUCLID***	***SSW 0 - 1/8 (0.004 mi.)***	***A2***	***13***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/25/2021 has revealed that there are

2 ENVIROSTOR sites within approximately 1 mile of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
TE VELDE ELEMENTARY	***SAN ANTONIO AVENUE/S***	***W 1/4 - 1/2 (0.490 mi.)***	***74***	***240***
Facility Id: 36010006				
Status: No Further Action				
COLLEGE PARK SCHOOL	***EUCALYPTUS / MOUNTAI***	***WSW 1/2 - 1 (0.942 mi.)***	***75***	***242***
Facility Id: 60000030				
Status: Inactive - Withdrawn				

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there are 6 SWF/LF sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
STUART GLENN	***7345 SCHAEFER AVE***	***ENE 0 - 1/8 (0.093 mi.)***	***G35***	***128***
Database: SWF/LF (SWIS), Date of Government Version: 02/08/2021				
Facility ID: 36-AA-0490				
Facility ID: 36-AA-0489				
Operational Status: Planned				
Regulation Status: Notification				
HARVEST- ONTARIO B1	7435 SCHAEFER AVE.	ENE 1/8 - 1/4 (0.193 mi.)	Q53	179
Database: SWF/LF (SWIS), Date of Government Version: 02/08/2021				
Facility ID: 36-AA-0491				
Operational Status: Planned				
Regulation Status: Notification				
HARVEST- ONTARIO B2	7435 SCHAEFER AVE.	ENE 1/8 - 1/4 (0.193 mi.)	Q54	180
Database: SWF/LF (SWIS), Date of Government Version: 02/08/2021				
Facility ID: 36-AA-0492				
Operational Status: Planned				
Regulation Status: Notification				
RECYCLED WOOD PRODUC	***12762 S. SULTANA AVE***	***NNE 1/4 - 1/2 (0.273 mi.)***	***73***	***236***
Database: LOS ANGELES CO. LF, Date of Government Version: 01/11/2021				
Database: SWF/LF (SWIS), Date of Government Version: 02/08/2021				
Facility ID: 36-AA-0471				
Site ID: 2584				
Status: Active				
Operational Status: Active				
Regulation Status: Notification				

Lower Elevation	Address	Direction / Distance	Map ID	Page
MATERIAL RECOVERY SO	***7325 EDISON AVE***	***SE 1/4 - 1/2 (0.259 mi.)***	***T71***	***229***
Database: SWF/LF (SWIS), Date of Government Version: 02/08/2021				
Facility ID: 36-AA-0496				
Operational Status: Active				

Regulation Status: Notification

RESIDUALS RECOVERY G ***7325 EDISON RD.*** ***SE 1/4 - 1/2 (0.259 mi.)*** ***T72*** ***232***
Database: SWF/LF (SWIS), Date of Government Version: 02/08/2021
Facility ID: 36-AA-0483
Operational Status: Active
Regulation Status: Notification

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 11 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIKSE & CO	***13710 SO EUCLID***	***NW 0 - 1/8 (0.030 mi.)***	***D6***	***30***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100390				
FIKSE AND COMPANY	***13710 S EUCLID AVE***	***NW 0 - 1/8 (0.034 mi.)***	***D7***	***38***
Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Global Id: T0607100390				
EZELL SALES, INC.	***13545 EUCLID AVE***	***NNW 1/8 - 1/4 (0.201 mi.)***	***O57***	***192***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0607100018 Global ID: T0607100018				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CABOT INVESTMENTS	***13926***	***SW 0 - 1/8 (0.039 mi.)***	***E8***	***40***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Facility Status: Case Closed Global ID: T0607100597				
CABOT INVESTMENTS	***13926 S EUCLID AVE***	***SW 0 - 1/8 (0.039 mi.)***	***E9***	***41***
Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Global Id: T0607100597				
VETERINARIAN'S OUTLE	***14058 EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***F13***	***48***
Database: LUST REG 8, Date of Government Version: 02/14/2005 Database: LUST, Date of Government Version: 03/08/2021 Status: Completed - Case Closed Facility Status: Case Closed Global Id: T0607100400 Global ID: T0607100400				
VALLEY HAY COMPANY	***14042 S EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***A15***	***56***
Database: LUST, Date of Government Version: 03/08/2021				

Status: Completed - Case Closed
Global Id: T0607100407

VALLEY HAY COMPANY ***14042 EUCLID AVE*** ***SSW 0 - 1/8 (0.042 mi.)*** ***A18*** ***79***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0607100407

MARS MARKET ***14107 S EUCLID AVE*** ***SSW 0 - 1/8 (0.073 mi.)*** ***H30*** ***120***
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Global Id: T0607100451

MAR'S MARKET ***14107*** ***SSW 0 - 1/8 (0.091 mi.)*** ***J34*** ***126***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Facility Status: Case Closed
Global ID: T0607100451

J.P. LOUBET ***14211 EUCLID AVE*** ***S 1/8 - 1/4 (0.196 mi.)*** ***55*** ***182***
Database: LUST REG 8, Date of Government Version: 02/14/2005
Database: LUST, Date of Government Version: 03/08/2021
Status: Completed - Case Closed
Facility Status: Case Closed
Global Id: T0607100335
Global ID: T0607100335

State and tribal registered storage tank lists

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, has revealed that there are 6 UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
AG-RODGRIGUEZ, ANTON Database: UST, Date of Government Version: 03/08/2021 Facility Id: 88016763	7416 SCHAEFER AVE	ENE 0 - 1/8 (0.119 mi.)	M41	146

Lower Elevation	Address	Direction / Distance	Map ID	Page
ROBERT FORD TRUCKING Database: UST, Date of Government Version: 03/08/2021 Facility Id: 89018065	14042 EUCLID AVE	SSW 0 - 1/8 (0.042 mi.)	A17	78
ROBERT FORD TRUCKING Database: UST, Date of Government Version: 03/08/2021 Facility Id: FA0005763	14042 S EUCLID AVE	SSW 0 - 1/8 (0.042 mi.)	A19	80
CHINO CHEVRON Database: UST, Date of Government Version: 03/08/2021 Facility Id: FA0010880	14088 EUCLID AVE	SSW 0 - 1/8 (0.055 mi.)	F24	88
CHARLIE TADEMA INC. Database: UST, Date of Government Version: 03/08/2021	7145 EDISON AVE	S 0 - 1/8 (0.077 mi.)	I32	125

Facility Id: FA0001863

J P LOUBET CO | 14211 EUCLID AVE | S 1/8 - 1/4 (0.220 mi.) | R65 | 212
Database: UST, Date of Government Version: 03/08/2021
Facility Id: 93030598

AST: A listing of aboveground storage tank petroleum storage tank locations.

A review of the AST list, as provided by EDR, has revealed that there is 1 AST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
L B MADOLE CO INC	***6995 EDISON***	***SSW 1/8 - 1/4 (0.151 mi.)***	***N44***	***152***

Database: AST, Date of Government Version: 07/06/2016

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Hazardous waste / Contaminated Sites

CERS HAZ WASTE: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

A review of the CERS HAZ WASTE list, as provided by EDR, and dated 01/20/2021 has revealed that there are 8 CERS HAZ WASTE sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ART VENEGAS DAIRY -	***13835 EUCLID AVENUE***	***SW 0 - 1/8 (0.016 mi.)***	***C5***	***19***
VALLEY HAY COMPANY	***14042 S EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***A15***	***56***
EZH INC	***14042 EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***A16***	***73***
EMJ INVESTMENT INC	***14088 EUCLID AVE***	***SSW 0 - 1/8 (0.055 mi.)***	***F25***	***89***
STATER BROS. MARKETS	***6989 SCHAEFER AVE***	***W 0 - 1/8 (0.115 mi.)***	***L38***	***135***
LB MADOLE ENGINEERIN	***14179 ALBERS WY***	***SSW 1/8 - 1/4 (0.193 mi.)***	***N52***	***164***
ALBERS MFG CO., INC.	***14323 ALBERS WAY***	***SSW 1/8 - 1/4 (0.214 mi.)***	***59***	***201***
GIC TRANSPORTATION	***14211 EUCLID AVE***	***S 1/8 - 1/4 (0.220 mi.)***	***R68***	***222***

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 7 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FISKE & CO	***13710 S EUCLID ST***	***NW 0 - 1/8 (0.117 mi.)***	***40***	***145***

Status: A
Tank Status: A
Comp Number: 7832

ANTONIO RODRIGUEZ	***7416 SCHAEFER***	***ENE 1/8 - 1/4 (0.153 mi.)***	***M46***	***156***
Status: A Tank Status: A Comp Number: 36321				
BRINDERSON DE LAVAL	***13529 S EUCLID AVE***	***N 1/8 - 1/4 (0.220 mi.)***	***O62***	***206***
Status: A Tank Status: A Comp Number: 2271				
EUCLID VETERINARY HO	***13525 S EUCLID AVE***	***N 1/8 - 1/4 (0.244 mi.)***	***S69***	***227***
Comp Number: 9010				

Lower Elevation	Address	Direction / Distance	Map ID	Page
GERMANIA DAIRY CENTE	***14058 EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***F10***	***44***
Status: A Tank Status: A Comp Number: 7852				
MARS MARKET	***14107 S EUCLID AVE***	***SSW 0 - 1/8 (0.073 mi.)***	***H30***	***120***
Comp Number: 14615				
J.P. LOUBET	***14211 EUCLID AVE***	***S 1/8 - 1/4 (0.196 mi.)***	***55***	***182***
Status: A Comp Number: 8353 Comp Number: 30597				

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 11 HIST UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RODRIGUEZ CALF RANCH	***7416 SCHAEFER AVE***	***ENE 1/8 - 1/4 (0.153 mi.)***	***M45***	***154***
Facility Id: 00000036321				
EZELL SALES, INC.	***13545 EUCLID AVE***	***NNW 1/8 - 1/4 (0.201 mi.)***	***O57***	***192***
EZELL SALES, INC.	***13545 S EUCLID AVE***	***NNW 1/8 - 1/4 (0.201 mi.)***	***O58***	***196***
Facility Id: 00000042364				
BRINDERSON DE LAVAL	13529 S EUCLID AVE	N 1/8 - 1/4 (0.220 mi.)	O60	204
Facility Id: 00000002271				
DAIRY CENTER INC	***13529 S EUCLID AVE***	***N 1/8 - 1/4 (0.220 mi.)***	***O61***	***205***
EUCLID VETERINARY HO	13525 S EUCLID AVE	N 1/8 - 1/4 (0.244 mi.)	S70	228
Facility Id: 00000009010				

Lower Elevation	Address	Direction / Distance	Map ID	Page
DORA PICKERING	14080 EUCLID AVE	SSW 0 - 1/8 (0.060 mi.)	F27	117
Facility Id: 00000059791				
EUCLID PUMP STATION	7152 EUCLID AVE	S 0 - 1/8 (0.063 mi.)	H29	119

Facility Id: 00000022167
Facility Id: 00000066324

MARS MARKET	***14107 S EUCLID AVE***	***SSW 0 - 1/8 (0.073 mi.)***	***H30***	***120***
DORA PICKERING Facility Id: 00000059790	7050 EDISONA VE	SSW 0 - 1/8 (0.078 mi.)	J33	126
JP LOUBET COMPANY	***14211 EUCLID AVE***	***S 1/8 - 1/4 (0.220 mi.)***	***R66***	***212***

CERS TANKS: List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

A review of the CERS TANKS list, as provided by EDR, and dated 01/20/2021 has revealed that there are 3 CERS TANKS sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
VALLEY HAY COMPANY	***14042 S EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***A15***	***56***
EMJ INVESTMENT INC	***14088 EUCLID AVE***	***SSW 0 - 1/8 (0.055 mi.)***	***F25***	***89***
LB MADOLE ENGINEERIN	***14179 ALBERS WY***	***SSW 1/8 - 1/4 (0.193 mi.)***	***N52***	***164***

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 7 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FISKE & CO Facility Id: 36004236 Status: A	***13710 S EUCLID ST***	***NW 0 - 1/8 (0.117 mi.)***	***40***	***145***
ANTONIO RODRIGUEZ Facility Id: 36008930 Status: A	***7416 SCHAEFER***	***ENE 1/8 - 1/4 (0.153 mi.)***	***M46***	***156***
BRINDERSON DE LAVAL Facility Id: 36000749 Status: A	***13529 S EUCLID AVE***	***N 1/8 - 1/4 (0.220 mi.)***	***O62***	***206***
EUCLID VETERINARY HO Facility Id: 36002441 Status: A	***13525 S EUCLID AVE***	***N 1/8 - 1/4 (0.244 mi.)***	***S69***	***227***

Lower Elevation	Address	Direction / Distance	Map ID	Page
GERMANIA DAIRY CENTE Facility Id: 36008418 Status: A	***14058 EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***F10***	***44***
MARS MARKET Facility Id: 36008207 Status: I	***14107 S EUCLID AVE***	***SSW 0 - 1/8 (0.073 mi.)***	***H30***	***120***
QUALITY HAY CO INC Facility Id: 36005330 Status: I	14211 EUCLID AVE	SSW 1/8 - 1/4 (0.175 mi.)	48	159

Other Ascertainable Records

RCRA NonGen / NLR: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

A review of the RCRA NonGen / NLR list, as provided by EDR, and dated 03/22/2021 has revealed that there are 10 RCRA NonGen / NLR sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
CHINO SMILES EPA ID:: CAL000429588	6961 SCHAEFER AVE	WNW 1/8 - 1/4 (0.158 mi.)	47	156
SHAREMYCOACHCHINO.CO EPA ID:: CAL000444646	13529 EUCLID AVE	N 1/8 - 1/4 (0.220 mi.)	O63	207

Lower Elevation	Address	Direction / Distance	Map ID	Page
EZH, INC EPA ID:: CAL000447876	14042 EUCLID AVE	SSW 0 - 1/8 (0.042 mi.)	A20	81
CHEVRON 307826 H&S E	14088 EUCLID AVE	SSW 0 - 1/8 (0.055 mi.)	F22	83
EMJ INVESTMENT INC EPA ID:: CAL000416111	14088 EUCLID AVE	SSW 0 - 1/8 (0.055 mi.)	F23	86
APOLLO WOOD RECOVERY EPA ID:: CAL000431676	7225 EDISON AVE	SSE 0 - 1/8 (0.097 mi.)	K36	132
LB MADOLE CO INC EPA ID:: CAL000250818	6995 EDISON AVE	SSW 1/8 - 1/4 (0.151 mi.)	N43	150
ALL STAR DRYCLEANER EPA ID:: CAL000391837	6939 SCHAEFER AVE ST	W 1/8 - 1/4 (0.181 mi.)	P51	161
GIC TRANSPORT INC EPA ID:: CAL000349863	14211 EUCLID AVE	S 1/8 - 1/4 (0.220 mi.)	R64	209
WHOLESALE DISTRIBUTI EPA ID:: CAL000442909	14211 EUCLID AVE	S 1/8 - 1/4 (0.220 mi.)	R67	219

Cortese: The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

A review of the Cortese list, as provided by EDR, and dated 03/22/2021 has revealed that there are 7 Cortese sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIKSE AND COMPANY Cleanup Status: COMPLETED - CASE CLOSED	***13710 S EUCLID AVE***	***NW 0 - 1/8 (0.034 mi.)***	***D7***	***38***
EZELL SALES, INC. Cleanup Status: COMPLETED - CASE CLOSED	***13545 EUCLID AVE***	***NNW 1/8 - 1/4 (0.201 mi.)***	***O57***	***192***

Lower Elevation	Address	Direction / Distance	Map ID	Page
CABOT INVESTMENTS	***13926 S EUCLID AVE***	***SW 0 - 1/8 (0.039 mi.)***	***E9***	***41***

Cleanup Status: COMPLETED - CASE CLOSED

VETERINARIAN'S OUTLE	***14058 EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***F12***	***46***
Cleanup Status: COMPLETED - CASE CLOSED				
VALLEY HAY COMPANY	***14042 S EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***A15***	***56***
Cleanup Status: COMPLETED - CASE CLOSED				
MARS MARKET	***14107 S EUCLID AVE***	***SSW 0 - 1/8 (0.073 mi.)***	***H30***	***120***
Cleanup Status: COMPLETED - CASE CLOSED				
J.P. LOUBET	***14211 EUCLID AVE***	***S 1/8 - 1/4 (0.196 mi.)***	***55***	***182***
Cleanup Status: COMPLETED - CASE CLOSED				

DRYCLEANERS: A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaners' agents; linen supply; coin-operated laundries and cleaning; drycleaning plants except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

A review of the DRYCLEANERS list, as provided by EDR, has revealed that there is 1 DRYCLEANERS site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
ALL STAR DRYCLEANER	***6939 SCHAEFER AVE ST***	***W 1/8 - 1/4 (0.181 mi.)***	***P50***	***160***
Database: DRYCLEANERS, Date of Government Version: 03/01/2021				
EPA Id: CAL000391837				

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 7 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
FIKSE & CO	***13710 SO EUCLID***	***NW 0 - 1/8 (0.030 mi.)***	***D6***	***30***
Reg Id: 083602712T				
EZELL SALES, INC.	***13545 EUCLID AVE***	***NNW 1/8 - 1/4 (0.201 mi.)***	***O57***	***192***
Reg Id: 083600151T				

Lower Elevation	Address	Direction / Distance	Map ID	Page
CABOT INVESTMENTS	***13926***	***SW 0 - 1/8 (0.039 mi.)***	***E8***	***40***
Reg Id: 083603535T				
VETERINARIAN'S OUTLE	***14058 EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***F13***	***48***
Reg Id: 083602766T				
VALLEY HAY COMPANY	***14042 EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***A18***	***79***
Reg Id: 083602807T				
MAR'S MARKET	***14107***	***SSW 0 - 1/8 (0.091 mi.)***	***J34***	***126***
Reg Id: 083603029T				
J.P. LOUBET	***14211 EUCLID AVE***	***S 1/8 - 1/4 (0.196 mi.)***	***55***	***182***

EXECUTIVE SUMMARY

Reg Id: 083602487T

San Bern. Co. Permit: San Bernardino County Fire Department Hazardous Materials Division.

A review of the San Bern. Co. Permit list, as provided by EDR, and dated 05/19/2021 has revealed that there are 26 San Bern. Co. Permit sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
DRAKE FAMILY FARMS Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0013839 Facility Id: FA0000657	***7255 SCHAEFER AVE***	***NNE 0 - 1/8 (0.002 mi.)***	***1***	***9***
FIKSE AND COMPANY Facility Status: INACTIVE Facility Id: FA0003214	***13710 S EUCLID AVE***	***NW 0 - 1/8 (0.034 mi.)***	***D7***	***38***
E.P. DAIRY REPAIR AN Facility Status: INACTIVE Facility Id: FA0010934 Facility Id: FA0000394	7316 SCHAEFER	ENE 0 - 1/8 (0.061 mi.)	G28	118
STUART GLENN Facility Status: INACTIVE Facility Id: FA0000452	***7345 SCHAEFER AVE***	***ENE 0 - 1/8 (0.093 mi.)***	***G35***	***128***
3 PALMS DAIRY Facility Status: INACTIVE Facility Id: FA0000629 Facility Id: FA0000628	***7416 SCHAEFER***	***ENE 0 - 1/8 (0.119 mi.)***	***M42***	***147***
DUTCH PREMIUM DAIRY Facility Status: INACTIVE Facility Id: FA0000430	13555 S EUCLID AVE	NNW 1/8 - 1/4 (0.181 mi.)	O49	159
BACHOC DAIRY #3 Facility Status: INACTIVE Facility Id: FA0010962 Facility Id: FA0000704	***7445 SCHAEFER AVENUE***	***ENE 1/8 - 1/4 (0.199 mi.)***	***Q56***	***188***
EZELL SALES, INC. Facility Status: ACTIVE Facility Id: FA0007017	***13545 S EUCLID AVE***	***NNW 1/8 - 1/4 (0.201 mi.)***	***O58***	***196***
DAIRY CENTER INC Facility Status: INACTIVE Facility Id: FA0002618	***13529 S EUCLID AVE***	***N 1/8 - 1/4 (0.220 mi.)***	***O61***	***205***

Lower Elevation	Address	Direction / Distance	Map ID	Page
STERLING TRUCK EQUIP Facility Status: INACTIVE Facility Id: FA0006463	14095 S EUCLID AVE	S 0 - 1/8 (0.010 mi.)	B3	17
ART VENEGAS DAIRY Facility Status: ACTIVE Facility Status: INACTIVE	***13835 EUCLID AVE***	***SW 0 - 1/8 (0.016 mi.)***	***C4***	***18***

Facility Id: FA0011046				
ART VENEGAS DAIRY - Facility Status: INACTIVE Facility Id: FA0009022	***13835 EUCLID AVENUE***	***SW 0 - 1/8 (0.016 mi.)***	***C5***	***19***
VETERINARIAN'S OUTLE Facility Status: INACTIVE Facility Id: FA0007125	14058 S EUCLID AVE B	SSW 0 - 1/8 (0.042 mi.)	F11	45
VETERINARIAN'S OUTLE Facility Status: ACTIVE Facility Id: FA0012631	***14058 EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***F13***	***48***
WEST COAST SAND & GR Facility Status: INACTIVE Facility Id: FA0012030	13948 EUCLID AVE	SSW 0 - 1/8 (0.042 mi.)	A14	55
VALLEY HAY COMPANY Facility Status: ACTIVE Facility Status: FEE EXEMPT Facility Status: INACTIVE Facility Id: FA0005763	***14042 S EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***A15***	***56***
VALLEY HAY COMPANY Facility Status: ACTIVE Facility Id: FA0018310	***14042 EUCLID AVE***	***SSW 0 - 1/8 (0.042 mi.)***	***A18***	***79***
VERIZON WIRELESS: CO Facility Status: ACTIVE Facility Id: FA0017156	7152 EDISON AVE	S 0 - 1/8 (0.055 mi.)	B21	83
EMJ INVESTMENT INC Facility Status: ACTIVE Facility Id: FA0010880	***14088 EUCLID AVE***	***SSW 0 - 1/8 (0.055 mi.)***	***F25***	***89***
CARL'S JR #458 Facility Status: INACTIVE Facility Id: FA0012449	7069 SCHAEFER	W 0 - 1/8 (0.057 mi.)	26	117
CHARLIE TADEMA INC. Facility Status: INACTIVE Facility Id: FA0001863	7145 EDISON AVE	S 0 - 1/8 (0.077 mi.)	I31	124
DON VAN DAM DAIRY Facility Status: INACTIVE Facility Id: FA0000424	7225 EDISON AVE	SSE 0 - 1/8 (0.097 mi.)	K37	134
STATER BROS. MARKETS Facility Status: ACTIVE Facility Id: FA0011907	***6989 SCHAEFER AVE***	***W 0 - 1/8 (0.115 mi.)***	***L38***	***135***
LB MADOLE ENGINEERIN Facility Status: ACTIVE Facility Id: FA0004323	***14179 ALBERS WY***	***SSW 1/8 - 1/4 (0.193 mi.)***	***N52***	***164***
ALBERS MFG CO., INC. Facility Status: ACTIVE Facility Id: FA0016502	***14323 ALBERS WAY***	***SSW 1/8 - 1/4 (0.214 mi.)***	***59***	***201***
GIC TRANSPORTATION Facility Status: ACTIVE Facility Status: INACTIVE Facility Id: FA0012977	***14211 EUCLID AVE***	***S 1/8 - 1/4 (0.220 mi.)***	***R68***	***222***

EXECUTIVE SUMMARY

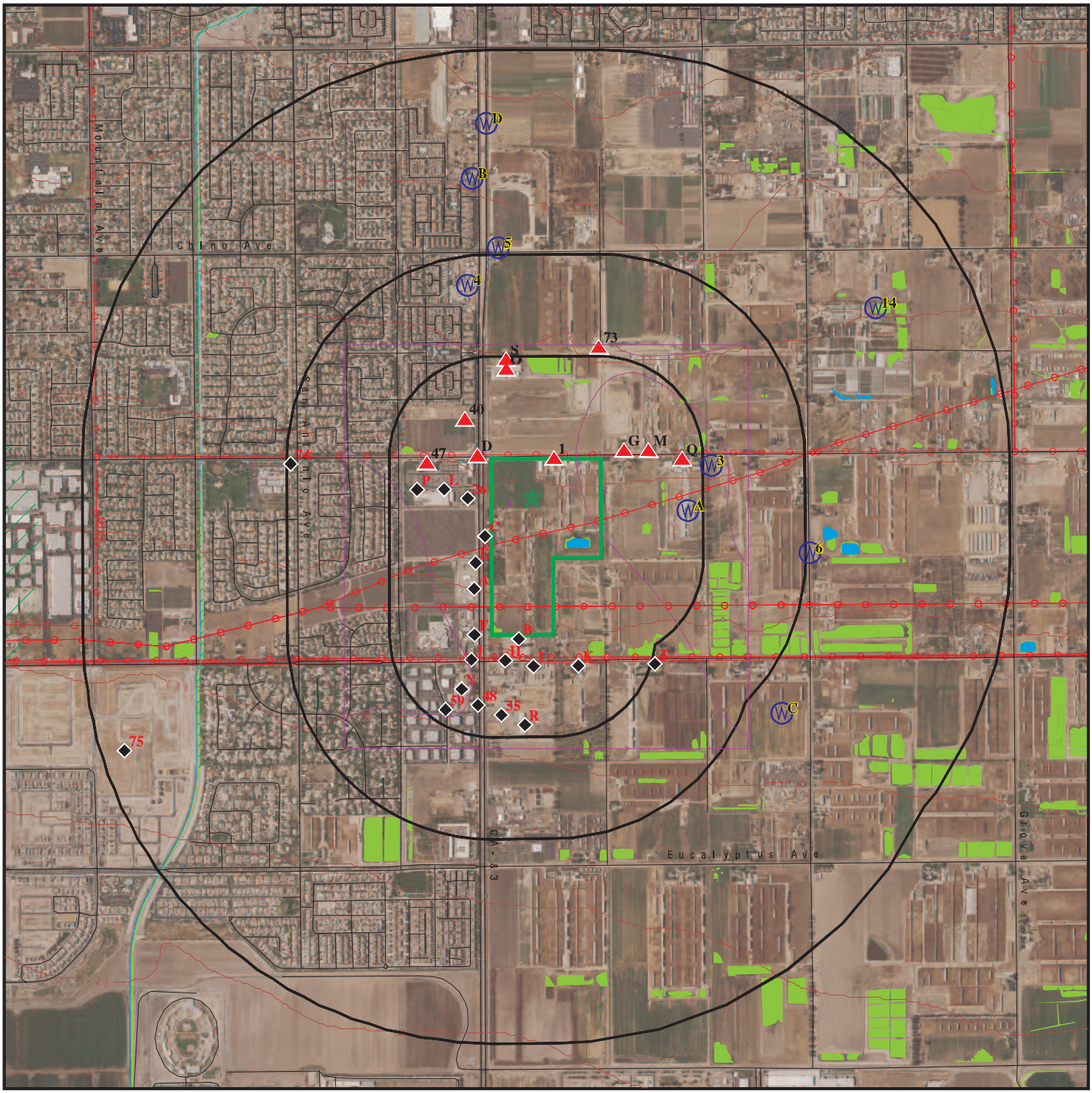
Facility Id: FA0004067
Facility Id: FA0010382

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 7 records.

Site Name	Database(s)
WARMINGTON HOMES	LUST, Cortese, HIST CORTESE
MAC'S SERVICE	LUST, HIST CORTESE
	CDL
	CDL
SAFEWAY PLAZA CLEANERS	DRYCLEANERS
E-Z SERVE	LUST
SO CAL GAS/ONTARIO MGP	EDR MGP

OVERVIEW MAP - 6550948.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

National Priority List Sites

Dept. Defense Sites

0 1/4 1/2 1 Miles

Indian Reservations BIA

Power transmission lines

Pipelines

Special Flood Hazard Area (1%)

0.2% Annual Chance Flood Hazard

National Wetland Inventory

State Wetlands

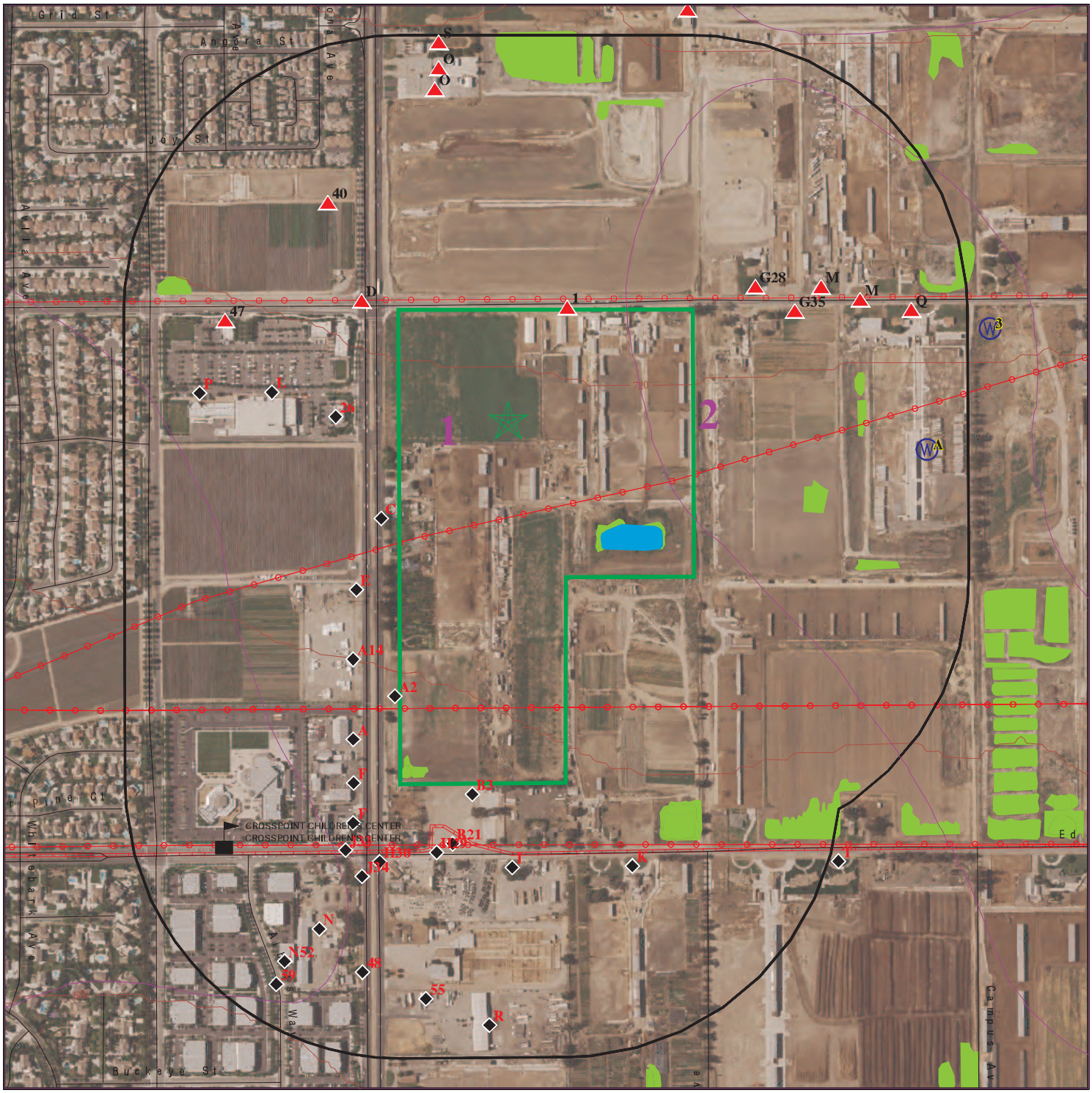
Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	RCCD Inc./60-Acre Property IN Ontario	CLIENT:	Converse Consultants
ADDRESS:	Euclid Avenue and Schaefer Avenue Ontario CA 91762	CONTACT:	Kaspar Wittlinger
LAT/LONG:	34.003301 / 117.648649	INQUIRY #:	6550948.2s
		DATE:	June 24, 2021 2:59 pm

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DETAIL MAP - 6550948.2S



- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- Pipelines
- Special Flood Hazard Area (1%)
- 0.2% Annual Chance Flood Hazard
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME:	RCCD Inc./60-Acre Property IN Ontario	CLIENT:	Converse Consultants
ADDRESS:	Euclid Avenue and Schaefer Avenue Ontario CA 91762	CONTACT:	Kaspar Wittlinger
LAT/LONG:	34.003301 / 117.648649	INQUIRY #:	6550948.2s
		DATE:	June 24, 2021 3:00 pm

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MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	1.000		0	0	0	0	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250		1	0	NR	NR	NR	1
RCRA-SQG	0.250		2	0	NR	NR	NR	2
RCRA-VSQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROLS	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	0.001		0	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	1	1	NR	2
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		1	2	3	NR	NR	6
State and tribal leaking storage tank lists								
LUST	0.500		9	2	0	NR	NR	11

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
CPS-SLIC	0.500		0	0	0	NR	NR	0
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		5	1	NR	NR	NR	6
AST	0.250		0	1	NR	NR	NR	1
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	0.001		0	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
US HIST CDL	0.001		0	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	0.001		0	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
CERS HAZ WASTE	0.250		5	3	NR	NR	NR	8
US CDL	0.001		0	NR	NR	NR	NR	0
PFAS	0.500		0	0	0	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		3	4	NR	NR	NR	7
HIST UST	0.250		4	7	NR	NR	NR	11
CERS TANKS	0.250		2	1	NR	NR	NR	3
CA FID UST	0.250		3	4	NR	NR	NR	7
Local Land Records								
LIENS	0.001		0	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
LIENS 2	0.001		0	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0
Records of Emergency Release Reports								
HMIRS	0.001		0	NR	NR	NR	NR	0
CHMIRS	0.001		0	NR	NR	NR	NR	0
LDS	0.001		0	NR	NR	NR	NR	0
MCS	0.001		0	NR	NR	NR	NR	0
SPILLS 90	0.001		0	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		4	6	NR	NR	NR	10
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	0.001		0	NR	NR	NR	NR	0
EPA WATCH LIST	0.001		0	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	0.001		0	NR	NR	NR	NR	0
TRIS	0.001		0	NR	NR	NR	NR	0
SSTS	0.001		0	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	0.001		0	NR	NR	NR	NR	0
RAATS	0.001		0	NR	NR	NR	NR	0
PRP	0.001		0	NR	NR	NR	NR	0
PADS	0.001		0	NR	NR	NR	NR	0
ICIS	0.001		0	NR	NR	NR	NR	0
FTTS	0.001		0	NR	NR	NR	NR	0
MLTS	0.001		0	NR	NR	NR	NR	0
COAL ASH DOE	0.001		0	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	0.001		0	NR	NR	NR	NR	0
RADINFO	0.001		0	NR	NR	NR	NR	0
HIST FTTS	0.001		0	NR	NR	NR	NR	0
DOT OPS	0.001		0	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	0.001		0	NR	NR	NR	NR	0
US AIRS	0.001		0	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.250		0	0	NR	NR	NR	0
FINDS	0.001		0	NR	NR	NR	NR	0
DOCKET HWC	0.001		0	NR	NR	NR	NR	0
UXO	1.000		0	0	0	0	NR	0
ECHO	0.001		0	NR	NR	NR	NR	0
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		5	2	0	NR	NR	7
CUPA Listings	0.250		0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
DRYCLEANERS	0.250		0	1	NR	NR	NR	1
EMI	0.001		0	NR	NR	NR	NR	0
ENF	0.001		0	NR	NR	NR	NR	0
Financial Assurance	0.001		0	NR	NR	NR	NR	0
HAZNET	0.001		0	NR	NR	NR	NR	0
ICE	0.001		0	NR	NR	NR	NR	0
HIST CORTESE	0.500		5	2	0	NR	NR	7
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	0.250		0	0	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	0.001		0	NR	NR	NR	NR	0
San Bern. Co. Permit	0.250		19	7	NR	NR	NR	26
PEST LIC	0.001		0	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
UIC	0.001		0	NR	NR	NR	NR	0
UIC GEO	0.001		0	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	0.001		0	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
MILITARY PRIV SITES	0.001		0	NR	NR	NR	NR	0
PROJECT	0.001		0	NR	NR	NR	NR	0
WDR	0.001		0	NR	NR	NR	NR	0
CIWQS	0.001		0	NR	NR	NR	NR	0
CERS	0.001		0	NR	NR	NR	NR	0
NON-CASE INFO	0.001		0	NR	NR	NR	NR	0
OTHER OIL GAS	0.001		0	NR	NR	NR	NR	0
PROD WATER PONDS	0.001		0	NR	NR	NR	NR	0
SAMPLING POINT	0.001		0	NR	NR	NR	NR	0
WELL STIM PROJ	0.001		0	NR	NR	NR	NR	0
HWTS	0.001		0	NR	NR	NR	NR	0
MINES MRDS	0.001		0	NR	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		0	NR	NR	NR	NR	0
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	0.001		0	NR	NR	NR	NR	0
RGA LUST	0.001		0	NR	NR	NR	NR	0
- Totals --		0	68	43	4	1	0	116

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

1
NNE
< 1/8
0.002 mi.
9 ft.

DRAKE FAMILY FARMS
7255 SCHAEFER AVE
ONTARIO, CA 91762

San Bern. Co. Permit
CERS

S104762151
N/A

Relative:
Higher

Actual:
724 ft.

San Bern. Co. Permit:

Name:	DRAKE FAMILY FARMS
Address:	7255 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91762
Region:	SAN BERNARDINO
Facility ID:	FA0013839
Owner:	DRAKE, DAN
Permit Number:	PT0024308
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status:	ACTIVE
Expiration Date:	05/31/2021

Name:	SUMMERHILL DAIRY
Address:	7255 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000657
Owner:	JOHNNY DEJONG
Permit Number:	PT0008915
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	04/30/2011

Name:	SUMMERHILL DAIRY
Address:	7255 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000657
Owner:	JOHNNY DEJONG
Permit Number:	PT0025738
Permit Category:	REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status:	INACTIVE
Expiration Date:	04/30/2011

Name:	SUMMERHILL DAIRY
Address:	7255 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000657
Owner:	JOHNNY DEJONG
Permit Number:	PT0008914
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	04/30/1997

CERS:

Name:	DRAKE FAMILY FARMS
Address:	7255 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91762
Site ID:	26467
CERS ID:	10312162
CERS Description:	Chemical Storage Facilities

DRAKE FAMILY FARMS (Continued) **S104762151**

Violations:

Site ID:	26467
Site Name:	DRAKE FAMILY FARMS
Violation Date:	03-15-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/07/2018. Business Plan never submitted to CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	26467
Site Name:	DRAKE FAMILY FARMS
Violation Date:	03-05-2014
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 05/07/2018.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	26467
Site Name:	DRAKE FAMILY FARMS
Violation Date:	07-29-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 07/29/2020. OBSERVATION: The CERS business plan was last updated on 2/23/2018. The plan is required to be updated annually. CORRECTIVE ACTION: Submit an annual update in CERS and return a signed certificate of compliance via email.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Evaluation:

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-05-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	DRAKE FARMS INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS

Eval General Type:	Compliance Evaluation Inspection
Eval Date:	03-15-2017

DRAKE FAMILY FARMS (Continued) **S104762151**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-29-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 26467
Site Name: DRAKE FAMILY FARMS
Site Address: 7255 SCHAEFER AVE
Site City: ONTARIO
Site Zip: 91762
Enf Action Date: 03-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 26467
Site Name: DRAKE FAMILY FARMS
Site Address: 7255 SCHAEFER AVE
Site City: ONTARIO
Site Zip: 91762
Enf Action Date: 03-15-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 26467
Facility Name: DRAKE FAMILY FARMS
Env Int Type Code: HMBP
Program ID: 10312162
Coord Name: Not reported
Ref Point Type Desc: Center of a facility or station.
Latitude: 34.004740
Longitude: -117.647080

Affiliation:
Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address

DRAKE FAMILY FARMS (Continued) **S104762151**

Entity Title: Not reported
Affiliation Address: 7255 SCHAEFER AVE
Affiliation City: ONTARIO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91762
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: DRAKE FAMILY FARMS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Environmental Contact
Entity Name: DAN DRAKE
Entity Title: Not reported
Affiliation Address: 6205 ARCHIBALD AVE
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92880
Affiliation Phone: Not reported

Affiliation Type Desc: Operator
Entity Name: Daniel Drake
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 548-4628

Affiliation Type Desc: Document Preparer
Entity Name: Daniel E Drake
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: DRAKE, DAN
Entity Title: Not reported
Affiliation Address: 6205 ARCHIBALD AVE
Affiliation City: Corona
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92880
Affiliation Phone: (909) 947-8688

DRAKE FAMILY FARMS (Continued) **S104762151**

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Identification Signer
Entity Name:	Daniel E Drake
Entity Title:	Owner
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A2 **R J LANTING** **RCRA-SQG** **1000121987**
SSW **13926 EUCLID** **FINDS** **CAD982473753**
< 1/8 **ONTARIO, CA 91761** **ECHO**
0.004 mi. **HAZNET**
22 ft. **Site 1 of 8 in cluster A** **HWTS**

Relative: **Lower**
Actual: **698 ft.**

RCRA-SQG:

Date Form Received by Agency:		1988-05-23 00:00:00.0
Handler Name:	R J LANTING	
Handler Address:		13926 EUCLID
Handler City,State,Zip:		ONTARIO, CA 91761
EPA ID:		CAD982473753
Contact Name:		ENVIRONMENTAL MANAGER
Contact Address:		13926 EUCLID
Contact City,State,Zip:		ONTARIO, CA 91761
Contact Telephone:		714-591-1767
Contact Fax:		Not reported
Contact Email:		Not reported
Contact Title:		Not reported
EPA Region:		09
Land Type:		Other
Federal Waste Generator Description:		Small Quantity Generator
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		CA
State District:		4
Mailing Address:		13926 EUCLID
Mailing City,State,Zip:		ONTARIO, CA 91761
Owner Name:		RON LATING JR
Owner Type:		Private
Operator Name:		NOT REQUIRED
Operator Type:		Private
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No

R J LANTING (Continued) **1000121987**

Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-06-27 03:34:10.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	RON LATING JR

R J LANTING (Continued) **1000121987**

Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	1988-05-23 00:00:00.0
Handler Name: R J LANTING	
Federal Waste Generator Description:	Small Quantity Generator
State District Owner:	CA
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	42291
NAICS Description:	FARM SUPPLIES WHOLESALERS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

FINDS:

Registry ID: 110002821661

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of

R J LANTING (Continued) **1000121987**

events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000121987
Registry ID:	110002821661
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002821661
Name:	R J LANTING
Address:	13926 EUCLID
City,State,Zip:	ONTARIO, CA 91761

HAZNET:

Name:	R J LANTING
Address:	13926 EUCLID
Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917610000
Contact:	SURVEY LETTER UNDELIV 11-22-94
Telephone:	--
Mailing Name:	Not reported
Mailing Address:	13926 EUCLID
Year:	1995
Gepaid:	CAD982473753
TSD EPA ID:	CAD093459485
CA Waste Code:	214 - Unspecified solvent mixture
Disposal Method:	H01 - Transfer Station
Tons:	0.0144
Year:	1988
Gepaid:	CAD982473753
TSD EPA ID:	CAD008302903
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	R01 - Recycler
Tons:	0.2502

Additional Info:

Year:	1995
Gen EPA ID:	CAD982473753
Shipment Date:	19950519
Creation Date:	10/24/1995 0:00:00
Receipt Date:	19950525
Manifest ID:	95516390
Trans EPA ID:	ILD984908202
Trans Name:	Not reported
Trans 2 EPA ID:	ILD984908202
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD093459485
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported

R J LANTING (Continued) **1000121987**

Waste Code Description:	214 - Unspecified solvent mixture
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.0144
Waste Quantity:	4
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	R J LANTING
Address:	13926 EUCLID
Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917610000
EPA ID:	CAD982473753
Inactive Date:	01/01/1995
Create Date:	06/15/1989
Last Act Date:	08/10/2004
Mailing Name:	Not reported
Mailing Address:	13926 EUCLID
Mailing Address 2:	Not reported
Mailing City,State,Zip:	ONTARIO, CA 917610000
Owner Name:	--
Owner Address:	--
Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	SURVEY LETTER UNDELIV 11-22-94
Contact Address:	--
Contact Address 2:	Not reported
City,State,Zip:	--, 99 --

B3 **STERLING TRUCK EQUIP & RE** **San Bern. Co. Permit** **S106911118**
South **14095 S EUCLID AVE** **N/A**
< 1/8 **CHINO, CA 91710**
0.010 mi.
52 ft. **Site 1 of 2 in cluster B**

Relative:
Lower

Actual:
694 ft.

San Bern. Co. Permit:

Name:	STERLING TRUCK EQUIP & RE
Address:	14095 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0006463
Owner:	STERLING TRUCK EQUIP & RE
Permit Number:	PT0007710
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	12/31/2001

C4 **ART VENEGAS DAIRY** **San Bern. Co. Permit** **S124608792**
SW **13835 EUCLID AVE** **HWTS** **N/A**
< 1/8 **ONTARIO, CA 91762**
0.016 mi.
84 ft. **Site 1 of 2 in cluster C**

Relative:
Lower

Actual:
710 ft.

San Bern. Co. Permit:

Name:	ART VENEGAS DAIRY
Address:	13835 EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0011046
Owner:	VENEGAS, ART
Permit Number:	PT0019043
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR SPECIAL
Facility Status:	ACTIVE
Expiration Date:	11/30/2021

Name:	ART VENEGAS DAIRY
Address:	13835 EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0011046
Owner:	VENEGAS, ART
Permit Number:	PT0019042
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	INACTIVE
Expiration Date:	11/30/2020

HWTS:

Name:	ART VENEGAS DAIRY
Address:	13835 EUCLID AVE
Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917626692
EPA ID:	CAC002670207
Inactive Date:	12/27/2011
Create Date:	06/29/2011
Last Act Date:	06/29/2011
Mailing Name:	Not reported
Mailing Address:	13835 EUCLID AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	ONTARIO, CA 917626692
Owner Name:	ART VENEGAS
Owner Address:	13835 EUCLID AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	ONTARIO, CA 917626692
Contact Name:	ART VENEGAS
Contact Address:	13835 EUCLID AVE
Contact Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917626692

C5 **ART VENEGAS DAIRY - EUCLID** **CERS HAZ WASTE** **S106718407**
SW **13835 EUCLID AVENUE** **ENF** **N/A**
< 1/8 **ONTARIO, CA 91762** **San Bern. Co. Permit**
0.016 mi. **CIWQS**
84 ft. **Site 2 of 2 in cluster C** **CERS**

Relative:
Lower

Actual:
710 ft.

CERS HAZ WASTE:

Name:	ART VENEGAS DIARY
Address:	13835 EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
Site ID:	6985
CERS ID:	10052197
CERS Description:	Hazardous Waste Generator

ENF:

Name:	ART VENEGAS DAIRY - EUCLID
Address:	13835 EUCLID AVENUE
City,State,Zip:	ONTARIO, CA 91762
Region:	8
Facility Id:	752320
Agency Name:	Venegas, Art
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Individual
# Of Agencies:	1
Place Latitude:	34.00245
Place Longitude:	-117.65056
SIC Code 1:	Not reported
SIC Desc 1:	Not reported
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	ANIMALWASTE
# Of Programs:	1
WDID:	8 365975001
Reg Measure Id:	374119
Reg Measure Type:	Enrollee - NPDES
Region:	8
Order #:	R8-2018-0001

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	459.9
Status:	Active
Status Date:	07/16/2019
Effective Date:	05/17/2010
Expiration/Review Date:	03/15/2024
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	I
Fee Code:	10 - Confined animal feeding facility
Direction/Voice:	Passive
Enforcement Id(EID):	385359
Region:	8
Order / Resolution Number:	R8-2012-0033
Enforcement Action Type:	Admin Civil Liability
Effective Date:	07/16/2012
Adoption/Issuance Date:	07/16/2012
Achieve Date:	Not reported
Termination Date:	Not reported
ACL Issuance Date:	07/16/2012
EPL Issuance Date:	Not reported
Status:	Active
Title:	ACL R8-2012-0033 for Venegas, Art
Description:	Failure to submit 2011 annual report
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	9000
Initial Assessed Amount:	9000
Liability $ Amount:	9000
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

San Bern. Co. Permit:

Name:	AT&T MOBILITY-EDISON #25629
Address:	13835 EUCLID AVE
City,State,Zip:	ONTARIO, CA 91762
Region:	SAN BERNARDINO
Facility ID:	FA0009022
Owner:	New Cingular Wireless PCS, LLC dba AT&T Mobility
Permit Number:	PT0015890
Permit Category:	HAZMAT HANDLER - UNSTAFFED REMOTE FACILITY
Facility Status:	INACTIVE
Expiration Date:	08/31/2009

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

CIWQS:

Name:	ART VENEGAS DAIRY - EUCLID
Address:	13835 EUCLID AVENUE
City,State,Zip:	ONTARIO, CA 91762
Agency:	Venegas, Art
Agency Address:	13835 Euclid Avenue, Ontario, CA 91762
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	Not reported
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Active
Regulatory Measure Type:	Enrollee - NPDES
Order Number:	R8-2018-0001
WDID:	8 365975001
NPDES Number:	CAG018001
Adoption Date:	01/01/1900
Effective Date:	05/17/2010
Termination Date:	01/01/1900
Expiration/Review Date:	03/15/2024
Design Flow:	Not reported
Major/Minor:	Minor
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.00245
Longitude:	-117.65056

CERS:

Name:	ART VENEGAS DIARY
Address:	13835 EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
Site ID:	6985
CERS ID:	10052197
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	Returned to compliance on 01/09/2018. The last Business Plan update submitted by this facility is dated 5/26/2011.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	06-05-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Administration/Documentation - General

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

Violation Notes:	Returned to compliance on 07/21/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a)) EPA ID was inactive
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Failure to store hazardous waste in sound containers (CCR 66265.171) All containers that are used to store a hazardous waste either temporarily or continuously shall be in sound condition having no holes, dents, or rust that makes it unsound. Observed a badly deteriorated broken open 275-gallon tote of waste oil. The top of the tote has failed and the contents were exposed to the outside. Compliance Requirement: -Submit a photograph showing that a sound closeable container has been provided for the storage of hazardous wastes.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 01/23/2018. Failure to obtain a CUPA Hazardous Waste Generator Permit (SBCC 23.0602(b)(1)) Facilities that handle hazardous materials in quantities at or exceeding 55 gallons, 500 pounds, or 200 cubic feet (compressed gas) or generate any amount of hazardous waste at any one time in the course of a year are required to have current permits. This facility owes a delinquent balance of $1,251.68. Compliance Requirement: -Submit payment for all required permits.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-07-2020
Citation:	22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description:	Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes:	OBSERVATION: The business has not obtained a permanent California EPA ID number to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. CORRECTIVE ACTION: Using the provided forms obtain a permanent EPA ID and submit

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

documentation demonstrating that you have obtained an EPA ID number.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 6985
Site Name: ART VENEGAS DIARY
Violation Date: 06-05-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/21/2017. Failure to label hazardous waste containers (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 6985
Site Name: ART VENEGAS DIARY
Violation Date: 07-21-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Hazardous waste accumulation time exceeded (CCR 66262.34(a)) All hazardous waste shall be removed from the facility under the appropriate manifest within 180 days of accumulation. Observed two 275-gallon totes of waste oil stored on site for longer than 180 days. Compliance Requirement: -Submit a copy of a hazardous waste manifest for the removal of the waste oil.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 6985
Site Name: ART VENEGAS DIARY
Violation Date: 06-05-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/21/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 6985
Site Name: ART VENEGAS DIARY
Violation Date: 06-05-2014
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/21/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Failure to inspect Hazardous Waste container storage areas weekly (CCR 66265.174) Hazardous waste storage areas shall be inspected weekly to ensure that containers are kept closed, labeled, and in good condition. Weekly inspections are not being conducted. Compliance Requirement: -Submit three consecutive completed weekly inspection checklists to this office.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 01/09/2018. This facility has not submitted the Business Plan elements into CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/21/2017. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Any tank or container holding a hazardous waste must be properly labeled. Proper labeling includes the following information: the words G Hazardous Waste,G generator name and address, hazardous properties of the waste, composition & physical state of the waste, and the accumulation start date. Observed two 275-gallon totes of waste oil without complete hazardous waste labels. -The containers were properly labeled during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	06-05-2014
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 01/09/2018.

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/21/2017. Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Any tank or container holding a hazardous waste must be properly labeled. Proper labeling includes the following information: the words G Hazardous Waste,G generator name and address, hazardous properties of the waste, composition & physical state of the waste, and the accumulation start date. Observed two 275-gallon totes of waste oil missing hazardous waste labels. -The containers were properly labeled during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-07-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes:	OBSERVATION: The CERS hazardous materials inventory was last updated on 12/7/2017. The inventory needs to be updated to remove the two items listed and waste oil needs to be added. Waste oil will be the only item disclosed on the inventory. The maximum daily quantity should be listed at 5 gallons. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory in CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	Un-Specified
Violation Description:	Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes:	Returned to compliance on 01/23/2018. Failure to obtain a CUPA Hazardous Materials Handler permit (SBCC 23.0602(a)) Facilities that handle hazardous materials in quantities at or exceeding 55 gallons, 500 pounds, or 200 cubic feet (compressed gas) or generate any amount of hazardous waste at any one time in the course of a year are required to have current permits. This facility owes a delinquent balance of $1,251.68. Compliance Requirement: -Submit payment for all required permits.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Failure to keep hazardous waste containers closed when not in active use (CCR 66265.173(a)) All hazardous waste containers shall be maintained closed unless adding or removing the contents and are required to have an appropriately fitted lid or bung closures or a one-way valve system that will prevent any accidental spills. Observed a 275-gallon tote of waste oil that was deteriorated and broken open; the tote was not able to be fully closed. Compliance Requirement: -Submit a signed statement that this container has been removed from the premises and that used oil is being stored in appropriate closable containers.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-07-2020
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes:	OBSERVATION: The CERS website was last updated on January 9, 2018. CERS is required to be updated yearly. CORRECTIVE ACTION: Review and submit an annual update to CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS

Site ID:	6985
Site Name:	ART VENEGAS DIARY
Violation Date:	07-21-2017
Citation:	HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description:	Hazardous Waste Generator Program - Administration/Documentation - General
Violation Notes:	Returned to compliance on 07/21/2017. Failure to obtain an EPA ID Number (CCR 66262.12(a)) Failure to obtain/maintain an active EPA ID Number. A facility or individual shall not treat, store, dispose of, transport, or offer for transportation a Hazardous Waste unless an EPA ID Number has been obtained. (CCR 66262.12(a)) Facilities that generate any amount of a hazardous waste are required to maintain an active EPA ID number to track the hazardous waste generated from their business. An EPA ID number is not listed for this facility at this location. -EPA ID application form 1358 was completed and submitted at the time of the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS

Site ID:	6985

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

Site Name: ART VENEGAS DIARY
Violation Date: 07-21-2017
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Hazardous Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 07/21/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Any tank or container holding a hazardous waste must be properly labeled. Proper labeling includes the following information: the words G Hazardous Waste,G generator name and address, hazardous properties of the waste, composition & physical state of the waste, and the accumulation start date. Observed two 275-gallon totes of waste oil missing accumulation start dates. -The containers were properly labeled during the inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 06-05-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Routine inspection
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-07-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-21-2017

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION-ART VENEGAS DAIRY
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-21-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-ART VENEGAS DAIRY
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 6985
Site Name: ART VENEGAS DIARY
Site Address: 13835 EUCLID AVE
Site City: ONTARIO
Site Zip: 91761
Enf Action Date: 06-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 6985
Site Name: ART VENEGAS DIARY
Site Address: 13835 EUCLID AVE
Site City: ONTARIO
Site Zip: 91761
Enf Action Date: 06-05-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Environmental Contact
Entity Name: ART VENEGAS
Entity Title: Not reported
Affiliation Address: 13835 EUCLID AVE
Affiliation City: ONTARIO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91762
Affiliation Phone: Not reported

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire

ART VENEGAS DAIRY - EUCLID (Continued) **S106718407**

Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	13835 EUCLID AVE
Affiliation City:	ONTARIO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91761
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Venegas, Art
Entity Title:	Not reported
Affiliation Address:	13835 EUCLID AVE
Affiliation City:	ONTARIO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91761
Affiliation Phone:	(951) 830-7306
Affiliation Type Desc:	Operator
Entity Name:	ART VENEGAS
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(951) 830-7306
Affiliation Type Desc:	Parent Corporation
Entity Name:	ART VENEGAS DIARY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

D6 **FIKSE & CO** **RCRA-SQG 1000378841**
NW **13710 SO EUCLID** **LUST CAD982473571**
< 1/8 **ONTARIO, CA 91761** **FINDS**
0.030 mi. **ECHO**
160 ft. **Site 1 of 2 in cluster D** **HAZNET**
HIST CORTESE
Relative: Higher **HWTS**

Actual: 722 ft.

RCRA-SQG:

Date Form Received by Agency:	1988-05-06 00:00:00.0
Handler Name: FIKSE & CO	
Handler Address:	13710 SO EUCLID
Handler City,State,Zip:	ONTARIO, CA 91761
EPA ID:	CAD982473571
Contact Name:	ENVIRONMENTAL MANAGER
Contact Address:	13710 SO EUCLID
Contact City,State,Zip:	ONTARIO, CA 91761
Contact Telephone:	714-627-8529
Contact Fax:	Not reported
Contact Email:	Not reported
Contact Title:	Not reported
EPA Region:	09
Land Type:	Other
Federal Waste Generator Description:	Small Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	CA
State District:	4
Mailing Address:	13710 SO EUCLID
Mailing City,State,Zip:	ONTARIO, CA 91761
Owner Name:	EDDIE FIKSE
Owner Type:	Private
Operator Name:	NOT REQUIRED
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	NN
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline

FIKSE & CO (Continued) **1000378841**

2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2002-06-27 03:34:09.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	Not reported
Manifest Broker:	Not reported
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EDDIE FIKSE
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	NOT REQUIRED
Legal Status:	Private
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	NOT REQUIRED
Owner/Operator City,State,Zip:	NOT REQUIRED, ME 99999
Owner/Operator Telephone:	415-555-1212
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

FIKSE & CO (Continued) **1000378841**

Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 1988-05-06 00:00:00.0
Handler Name: FIKSE & CO
Federal Waste Generator Description: Small Quantity Generator
State District Owner: CA
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 4841
NAICS Description: GENERAL FREIGHT TRUCKING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

LUST REG 8:
Name: FIKSE AND COMPANY
Address: 13710 EUCLID AVE
City: ONTARIO
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083602712T
Local Case Num: 95044
Case Type: Soil only
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street: SCHAEFER
Enf Type: CLOS
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0607100390
How Stopped Date: 8/16/1995
Enter Date: 12/13/1995
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: Not reported
Discover Date: 8/16/1995

FIKSE & CO (Continued) **1000378841**

Enforcement Date:	Not reported
Close Date:	1/23/1996
Date Prelim Assessment Workplan Submitted:	8/25/1995
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	8/29/1995
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/13/1995
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0048688
Longitude:	-117.6509743
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	WDM
Staff Initials:	LH6
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

FINDS:

Registry ID: 110002821518

Click Here:

Environmental Interest/Information System:

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000378841
Registry ID:	110002821518
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110002821518
Name:	FIKSE & CO
Address:	13710 SO EUCLID
City,State,Zip:	ONTARIO, CA 91761

FIKSE & CO (Continued) **1000378841**

HAZNET:

Name:	FIKSE & CO
Address:	13710 SO EUCLID
Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917610000
Contact:	EDDIE FISHER/SAFTEY
Telephone:	9096278529
Mailing Name:	Not reported
Mailing Address:	13710 S EUCLID AVE
Year:	2001
Gepaid:	CAD982473571
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.2478
Year:	2000
Gepaid:	CAD982473571
TSD EPA ID:	CAT000613927
CA Waste Code:	134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method:	H01 - Transfer Station
Tons:	0.378
Year:	1988
Gepaid:	CAD982473571
TSD EPA ID:	CAD008302903
CA Waste Code:	213 - Hydrocarbon solvents (benzene, hexane, Stoddard, Etc.)
Disposal Method:	R01 - Recycler
Tons:	0.2668

Additional Info:

Year:	2000
Gen EPA ID:	CAD982473571
Shipment Date:	20001229
Creation Date:	3/6/2001 0:00:00
Receipt Date:	20001229
Manifest ID:	20378539
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G

FIKSE & CO (Continued) **1000378841**

Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20001031
Creation Date:	1/9/2001 0:00:00
Receipt Date:	20001031
Manifest ID:	20282080
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000906
Creation Date:	12/8/2000 0:00:00
Receipt Date:	20000906
Manifest ID:	20028274
Trans EPA ID:	SCR000075150
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	CAT000613927
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.084
Waste Quantity:	20
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20000713
Creation Date:	9/11/2000 0:00:00
Receipt Date:	20000713

FIKSE & CO (Continued) **1000378841**

Manifest ID: 20185172
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613927
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: D039
Meth Code: H01 - Transfer Station
Quantity Tons: 0.126
Waste Quantity: 30
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2001
Gen EPA ID: CAD982473571

Shipment Date: 20010613
Creation Date: 7/30/2001 0:00:00
Receipt Date: 20010614
Manifest ID: 20648957
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT000613927
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: D039
Meth Code: H01 - Transfer Station
Quantity Tons: 0.1302
Waste Quantity: 31
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Shipment Date: 20010222
Creation Date: 4/19/2001 0:00:00
Receipt Date: 20010223
Manifest ID: 20363453
Trans EPA ID: SCR000075150
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported

FIKSE & CO (Continued) **1000378841**

TSDF EPA ID:	CAT000613927
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	134 - Aqueous solution with <10% total organic residues
RCRA Code:	D039
Meth Code:	H01 - Transfer Station
Quantity Tons:	0.1176
Waste Quantity:	28
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HIST CORTESE:

edr_fname:	FIKSE AND COMPANY
edr_fadd1:	13710 EUCLID
City,State,Zip:	ONTARIO, CA 91761
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602712T

HWTS:

Name:	FIKSE & CO
Address:	13710 SO EUCLID
Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917610000
EPA ID:	CAD982473571
Inactive Date:	06/30/2003
Create Date:	06/15/1989
Last Act Date:	08/10/2004
Mailing Name:	Not reported
Mailing Address:	13710 S EUCLID AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	ONTARIO, CA 917626694
Owner Name:	--
Owner Address:	--
Owner Address 2:	Not reported
Owner City,State,Zip:	--, 99 --
Contact Name:	EDDIE FISHER/SAFTEY
Contact Address:	13710 S EUCLID AVE
Contact Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917620000

D7 **FIKSE AND COMPANY** **LUST** **S102805363**
NW **13710 S EUCLID AVE** **Cortese** **N/A**
< 1/8 **ONTARIO, CA 91761** **San Bern. Co. Permit**
0.034 mi. **CERS**
181 ft. **Site 2 of 2 in cluster D**

Relative:
Higher

Actual:
723 ft.

LUST:

Name:	FIKSE AND COMPANY
Address:	13710 S EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100390
Global Id:	T0607100390
Latitude:	34.0048688
Longitude:	-117.6509743
Status:	Completed - Case Closed
Status Date:	01/23/1996
Case Worker:	Not reported
RB Case Number:	083602712T
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	95044
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0607100390
Action Type:	ENFORCEMENT
Date:	01/23/1996
Action:	Closure/No Further Action Letter
Global Id:	T0607100390
Action Type:	Other
Date:	08/16/1995
Action:	Leak Discovery
Global Id:	T0607100390
Action Type:	Other
Date:	08/16/1995
Action:	Leak Stopped
Global Id:	T0607100390
Action Type:	Other
Date:	08/25/1995
Action:	Leak Reported
Global Id:	T0607100390
Action Type:	REMEDIATION
Date:	08/16/1995
Action:	Excavation

LUST:

Global Id:	T0607100390
Status:	Open - Case Begin Date
Status Date:	08/16/1995
Global Id:	T0607100390

FIKSE AND COMPANY (Continued) **S102805363**

Status: Open - Site Assessment
Status Date: 08/25/1995

Global Id: T0607100390
Status: Open - Remediation
Status Date: 08/29/1995

Global Id: T0607100390
Status: Completed - Case Closed
Status Date: 01/23/1996

CORTESE:
Name: FIKSE AND COMPANY
Address: 13710 S EUCLID AVE
City,State,Zip: ONTARIO, CA 91761
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100390
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

San Bern. Co. Permit:
Name: FIKSE & CO
Address: 13710 S EUCLID ST
City,State,Zip: ONTARIO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0003214
Owner: FIKSE & CO
Permit Number: PT0001804
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 02/28/2002

Name: FIKSE & CO
Address: 13710 S EUCLID ST
City,State,Zip: ONTARIO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0003214
Owner: FIKSE & CO

FIKSE AND COMPANY (Continued) **S102805363**

Permit Number: PT0001805
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 02/28/2002

CERS:

Name:	FIKSE AND COMPANY
Address:	13710 S EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
Site ID:	242933
CERS ID:	T0607100390
CERS Description:	Leaking Underground Storage Tank Cleanup Site

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E8 **CABOT INVESTMENTS** **LUST** **S104405131**
SW **13926** **HIST CORTESE** **N/A**
< 1/8 **CHINO, CA 91709**
0.039 mi.
205 ft. **Site 1 of 2 in cluster E**

Relative: **Lower**

Actual: **705 ft.**

LUST REG 8:

Name:	CABOT INVESTMENTS
Address:	13926 EUCLID AVE
City:	CHINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083603535T
Local Case Num:	99096
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	SCHAEFER AVE
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	UNK
Leak Source:	UNK
Global ID:	T0607100597
How Stopped Date:	6/16/1999
Enter Date:	Not reported
Date Confirmation of Leak Began:	6/16/1999
Date Preliminary Assessment Began:	Not reported
Discover Date:	6/16/1999
Enforcement Date:	Not reported
Close Date:	2/3/2000
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	9/16/1999
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	Not reported
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported

CABOT INVESTMENTS (Continued) **S104405131**

Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.9823
Longitude:	-117.6501
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	2
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	MTBE Detected. Site tested for MTBE & MTBE detected
MTBE Class:	*
Staff:	RS
Staff Initials:	JC3
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	No

Summary: SAN BERNARDINO COUNTY FIRE DEPT. ORDERED A SITE INVESTIGATION.

HIST CORTESE:

edr_fname:	CABOT INVESTMENTS
edr_fadd1:	13926
City,State,Zip:	CHINO, CA 91709
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083603535T

E9 **CABOT INVESTMENTS** **LUST** **S104405440**
SW **13926 S EUCLID AVE** **Cortese** **N/A**
< 1/8 **CHINO, CA 91709** **CERS**
0.039 mi.
205 ft. **Site 2 of 2 in cluster E**

Relative: **Lower**

Actual: **705 ft.**

LUST:

Name:	CABOT INVESTMENTS
Address:	13926 S EUCLID AVE
City,State,Zip:	CHINO, CA 91709
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100597
Global Id:	T0607100597
Latitude:	34.003778
Longitude:	-117.6509346
Status:	Completed - Case Closed
Status Date:	02/03/2000
Case Worker:	JC
RB Case Number:	083603535T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	99096
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline

CABOT INVESTMENTS (Continued) **S104405440**

Site History: Not reported

LUST:
Global Id: T0607100597
Contact Type: Local Agency Caseworker
Contact Name: JACKSON CRUTSINGER
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: jcrutsinger@sbcfire.org
Phone Number: Not reported

Global Id: T0607100597
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

LUST:
Global Id: T0607100597
Action Type: Other
Date: 06/16/1999
Action: Leak Discovery

Global Id: T0607100597
Action Type: Other
Date: 06/16/1999
Action: Leak Stopped

Global Id: T0607100597
Action Type: Other
Date: 07/01/1999
Action: Leak Reported

Global Id: T0607100597
Action Type: ENFORCEMENT
Date: 02/03/2000
Action: Closure/No Further Action Letter

Global Id: T0607100597
Action Type: REMEDIATION
Date: 09/16/1999
Action: Excavation

LUST:
Global Id: T0607100597
Status: Open - Case Begin Date
Status Date: 06/16/1999

Global Id: T0607100597
Status: Open - Site Assessment
Status Date: 06/16/1999

Global Id: T0607100597

CABOT INVESTMENTS (Continued) **S104405440**

Status: Open - Remediation
Status Date: 09/16/1999

Global Id: T0607100597
Status: Completed - Case Closed
Status Date: 02/03/2000

CORTESE:
Name: CABOT INVESTMENTS
Address: 13926 S EUCLID AVE
City,State,Zip: CHINO, CA 91709
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100597
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

CERS:
Name: CABOT INVESTMENTS
Address: 13926 S EUCLID AVE
City,State,Zip: CHINO, CA 91709
Site ID: 242854
CERS ID: T0607100597
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9513206375

Affiliation Type Desc: Local Agency Caseworker
Entity Name: JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET

CABOT INVESTMENTS (Continued) **S104405440**

Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

F10 **GERMANIA DAIRY CENTER** **SWEEPS UST** **S101591568**
SSW **14058 EUCLID AVE** **CA FID UST** **N/A**
< 1/8 **CHINO, CA 91710**
0.042 mi.
221 ft. **Site 1 of 9 in cluster F**

Relative: **Lower**

Actual: **693 ft.**

SWEEPS UST:

Name:	GERMANIA DAIRY CENTER
Address:	14058 EUCLID AVE
City:	CHINO
Status:	Active
Comp Number:	7852
Number:	9
Board Of Equalization:	44-020024
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	09-22-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-007852-000001
Tank Status:	A
Capacity:	1
Active Date:	09-22-88
Tank Use:	UNKNOWN
STG:	P
Content:	UNKNOWN
Number Of Tanks:	3

Name:	GERMANIA DAIRY CENTER
Address:	14058 EUCLID AVE
City:	CHINO
Status:	Active
Comp Number:	7852
Number:	9
Board Of Equalization:	44-020024
Referral Date:	03-24-92
Action Date:	03-24-92
Created Date:	09-22-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-007852-000002
Tank Status:	A
Capacity:	1
Active Date:	09-22-88
Tank Use:	UNKNOWN
STG:	P
Content:	UNKNOWN
Number Of Tanks:	Not reported

Name:	GERMANIA DAIRY CENTER
Address:	14058 EUCLID AVE
City:	CHINO
Status:	Active

GERMANIA DAIRY CENTER (Continued) **S101591568**

Comp Number: 7852
Number: 9
Board Of Equalization: 44-020024
Referral Date: 03-24-92
Action Date: 03-24-92
Created Date: 09-22-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-007852-000003
Tank Status: A
Capacity: 1
Active Date: 09-22-88
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36008418
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 16130 S EUCLID AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: CHINO 91710
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

F11 **VETERINARIAN'S OUTLET** **San Bern. Co. Permit** **S104772022**
SSW **14058 S EUCLID AVE B** **N/A**
< 1/8 **CHINO, CA 91710**
0.042 mi.
221 ft. **Site 2 of 9 in cluster F**

Relative: **Lower**

Actual: **693 ft.**

San Bern. Co. Permit:
Name: VETERINARIAN'S OUTLET
Address: 14058 S EUCLID AVE B
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0007125
Owner: PAUL E BLACKMER DVM INC
Permit Number: PT0008926
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 08/31/2007

Name: VETERINARIAN'S OUTLET
Address: 14058 S EUCLID AVE B
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO

VETERINARIAN'S OUTLET (Continued) **S104772022**

Facility ID: FA0007125
Owner: PAUL E BLACKMER DVM INC
Permit Number: PT0008975
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 08/31/2007

Name: VETERINARIAN'S OUTLET
Address: 14058 S EUCLID AVE B
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0007125
Owner: PAUL E BLACKMER DVM INC
Permit Number: PT0008945
Permit Category: CALARP FACILITY PERMIT
Facility Status: INACTIVE
Expiration Date: 08/31/2003

F12 **VETERINARIAN'S OUTLET** **Cortese** **S112868027**
SSW **14058 EUCLID AVE** **HAZNET** **N/A**
< 1/8 **CHINO, CA 91710** **CERS**
0.042 mi. **HWTS**
221 ft. **Site 3 of 9 in cluster F**

Relative: **Lower**
Actual: **693 ft.**

CORTESE:
Name: VETERINARIAN'S OUTLET
Address: 14058 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100400
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HAZNET:
Name: VETERINARIANS OUTLETS
Address: 14058 EUCLID AVE
Address 2: Not reported
City,State,Zip: CHINO, CA 917100000
Contact: PAUL BLACKMER DVM
Telephone: 9095910189

VETERINARIAN'S OUTLET (Continued) **S112868027**

Mailing Name: Not reported
Mailing Address: 14058 EUCLID AVE

Year: 1995
Gepaid: CAC001132256
TSD EPA ID: CAT080013352
CA Waste Code: 223 - Unspecified oil-containing waste
Disposal Method: R01 - Recycler
Tons: 1.1467

Additional Info:
Year: 1995
Gen EPA ID: CAC001132256

Shipment Date: 19950926
Creation Date: 7/26/1996 0:00:00
Receipt Date: 19950926
Manifest ID: 95670130
Trans EPA ID: CAD009466392
Trans Name: Not reported
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAT080013352
Trans Name: Not reported
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 223 - Unspecified oil-containing waste
RCRA Code: D001
Meth Code: R01 - Recycler
Quantity Tons: 1.1467
Waste Quantity: 275
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

CERS:
Name: VETERINARIAN'S OUTLET
Address: 14058 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 257810
CERS ID: T0607100400
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

VETERINARIAN'S OUTLET (Continued) **S112868027**

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9513206375

HWTS:

Name:	VETERINARIANS OUTLETS
Address:	14058 EUCLID AVE
Address 2:	Not reported
City,State,Zip:	CHINO, CA 917100000
EPA ID:	CAC001132256
Inactive Date:	10/25/2000
Create Date:	09/15/1995
Last Act Date:	10/25/2000
Mailing Name:	Not reported
Mailing Address:	14058 EUCLID AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHINO, CA 917100000
Owner Name:	PAUL BLACKMER
Owner Address:	14058 EUCLID AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	CHINO, CA 917100000
Contact Name:	PAUL BLACKMER DVM
Contact Address:	14058 EUCLID AVE
Contact Address 2:	Not reported
City,State,Zip:	CHINO, CA 917100000

F13 **VETERINARIAN'S OUTLET** **LUST** **S102440908**
SSW **14058 EUCLID AVE** **CHMIRS** **N/A**
< 1/8 **CHINO, CA 91710** **HIST CORTESE**
0.042 mi. **San Bern. Co. Permit**
221 ft. **Site 4 of 9 in cluster F** **CERS**

Relative:
Lower

Actual:
693 ft.

LUST:

Name:	VETERINARIAN'S OUTLET
Address:	14058 EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100400
Global Id:	T0607100400
Latitude:	33.998488
Longitude:	-117.651395
Status:	Completed - Case Closed
Status Date:	02/08/1996
Case Worker:	JC
RB Case Number:	083602766T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	95050
Potential Media Affect:	Soil

VETERINARIAN'S OUTLET (Continued) **S102440908**

Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100400
Contact Type: Local Agency Caseworker
Contact Name: JACKSON CRUTSINGER
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: jcrutsinger@sbcfire.org
Phone Number: Not reported

Global Id: T0607100400
Contact Type: Regional Board Caseworker
Contact Name: ROSE SCOTT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: rose.scott@waterboards.ca.gov
Phone Number: 9513206375

LUST:
Global Id: T0607100400
Action Type: ENFORCEMENT
Date: 02/08/1996
Action: Closure/No Further Action Letter

Global Id: T0607100400
Action Type: Other
Date: 09/26/1995
Action: Leak Discovery

Global Id: T0607100400
Action Type: Other
Date: 10/03/1995
Action: Leak Reported

Global Id: T0607100400
Action Type: REMEDIATION
Date: 09/26/1995
Action: Excavation

LUST:
Global Id: T0607100400
Status: Open - Case Begin Date
Status Date: 09/26/1995

Global Id: T0607100400
Status: Open - Remediation
Status Date: 09/26/1995

Global Id: T0607100400
Status: Open - Site Assessment
Status Date: 09/26/1995

Global Id: T0607100400

VETERINARIAN'S OUTLET (Continued) **S102440908**

Status: Completed - Case Closed
Status Date: 02/08/1996

LUST REG 8:

Name:	VETERINARIAN'S OUTLET
Address:	14058 EUCLID AVE
City:	CHINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602766T
Local Case Num:	95050
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Excavate and Dispose - remove contaminated soil and dispose in approved site
Cross Street:	Not reported
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0607100400
How Stopped Date:	Not reported
Enter Date:	12/19/1995
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	9/26/1995
Enforcement Date:	Not reported
Close Date:	2/8/1996
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	9/26/1995
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	12/19/1995
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.997937
Longitude:	-117.6505232
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	JC3

VETERINARIAN'S OUTLET (Continued) **S102440908**

Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported
Summary:	Not reported

CHMIRS:

Name:	Not reported
Address:	14058 SOUTH EUCLID AVE
City,State,Zip:	CHINO, CA 91710
OES Incident Number:	12-2388
OES notification:	04/22/2012
OES Date:	Not reported
OES Time:	Not reported
Date Completed:	**Not reported**
Property Use:	Not reported
Agency Id Number:	Not reported
Agency Incident Number:	Not reported
Time Notified:	Not reported
Time Completed:	Not reported
Surrounding Area:	Not reported
Estimated Temperature:	Not reported
Property Management:	Not reported
More Than Two Substances Involved?:	Not reported
Resp Agncy Personel # Of Decontaminated:	Not reported
Responding Agency Personel # Of Injuries:	Not reported
Responding Agency Personel # Of Fatalities:	Not reported
Others Number Of Decontaminated:	Not reported
Others Number Of Injuries:	Not reported
Others Number Of Fatalities:	Not reported
Vehicle Make/year:	Not reported
Vehicle License Number:	Not reported
Vehicle State:	Not reported
Vehicle Id Number:	Not reported
CA DOT PUC/ICC Number:	Not reported
Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Merchant/Business
Cleanup By:	City Yards
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Gal(s)
Other:	Not reported
Date/Time:	34
Year:	2012
Agency:	Chino Valley F.D.
Incident Date:	4/22/2012
Admin Agency:	San Bernardino County Health Department
Amount:	Not reported

VETERINARIAN'S OUTLET (Continued) **S102440908**

Contained:	Yes
Site Type:	Not reported
E Date:	Not reported
Substance:	Various Paint Products & Solvents
Quantity Released:	200
Unknown:	Not reported
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Caller is reporting numerous containers abandoned in the back of a business which were released during a fire. The released materials appear to be various paints and potentially some solvents. After knocking down the fire with approximately 1000 gallons of water, the fire run-off was contained in a dirt ditch area, where City Yards personnel are cleaning up the release. Caller confirms no nearby storm drains or public waterways were impacted.

HIST CORTESE:

edr_fname:	VETERINARIAN'S OUTLET
edr_fadd1:	14058 EUCLID
City,State,Zip:	CHINO, CA 91710
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083602766T

San Bern. Co. Permit:

Name:	CHINO VALLEY VETERINARY EXPRESS
Address:	14058 EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0012631
Owner:	JOHN AYLYNG & DR DIANNE FIFE
Permit Number:	PT0022057
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	11/30/2021

CERS:

Name:	CHINO VALLEY VETERINARY EXPRESS
Address:	14058 EUCLID AVE

VETERINARIAN'S OUTLET (Continued) **S102440908**

City,State,Zip: CHINO, CA 91710
Site ID: 389900
CERS ID: 10055269
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 389900
Site Name: CHINO VALLEY VETERINARY EXPRESS
Violation Date: 03-06-2015
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 07/30/2015.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-06-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: VET EX INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-30-2018
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 389900
Site Name: CHINO VALLEY VETERINARY EXPRESS
Site Address: 14058 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 03-06-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 389900
Facility Name: CHINO VALLEY VETERINARY EXPRESS
Env Int Type Code: HMBP
Program ID: 10055269

VETERINARIAN'S OUTLET (Continued) **S102440908**

Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 33.998753
Longitude: -117.651741

Affiliation:
Affiliation Type Desc: Document Preparer
Entity Name: PAMELA ESCAMILLA
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: PAMELA ESCAMILLA
Entity Title: Bookkeeper
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: CHINO VALLEY VETERINARY EXPRESS
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Property Owner
Entity Name: Sybrand VanderDussen
Entity Title: Not reported
Affiliation Address: 14058 Euclid Ave
Affiliation City: Chino
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91710
Affiliation Phone: (909) 590-7883

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Environmental Contact

VETERINARIAN'S OUTLET (Continued) **S102440908**

Entity Name:	John Aylyng
Entity Title:	Not reported
Affiliation Address:	14-58 Eucild Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14058 Euclid Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	John Aylyng
Entity Title:	Not reported
Affiliation Address:	14058 Euclid Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91710
Affiliation Phone:	(909) 841-4710
Affiliation Type Desc:	Operator
Entity Name:	John Aylyng
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 841-4710

A14
SSW
< 1/8
0.042 mi.
222 ft.

WEST COAST SAND & GRAVEL, INC. **San Bern. Co. Permit** **S109521154**
13948 EUCLID AVE **N/A**
CHINO, CA 91710

Site 2 of 8 in cluster A

Relative:
Lower

Actual:
700 ft.

San Bern. Co. Permit:

Name:	WEST COAST SAND & GRAVEL, INC.
Address:	13948 EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0012030
Owner:	WEST COAST SAND & GRAVEL, INC.
Permit Number:	PT0021170
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	02/28/2013

A15
SSW
< 1/8
0.042 mi.
222 ft.

Relative:
Lower

Actual:
695 ft.

VALLEY HAY COMPANY
14042 S EUCLID AVE
CHINO, CA 91710

Site 3 of 8 in cluster A

Database(s): **LUST**, **CERS HAZ WASTE**, **CERS TANKS**, **Cortese**, **San Bern. Co. Permit**, **CERS**

EDR ID Number: **S109285119**
EPA ID Number: **N/A**

LUST:

Name:	VALLEY HAY COMPANY
Address:	14042 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100407
Global Id:	T0607100407
Latitude:	33.999065
Longitude:	-117.651397
Status:	Completed - Case Closed
Status Date:	09/24/1996
Case Worker:	CR2
RB Case Number:	083602807T
Local Agency:	SAN BERNARDINO COUNTY
File Location:	Local Agency
Local Case Number:	96002
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

LUST:

Global Id:	T0607100407
Contact Type:	Local Agency Caseworker
Contact Name:	CATHERINE RICHARDS
Organization Name:	SAN BERNARDINO COUNTY
Address:	620 SOUTH E STREET
City:	SAN BERNARDINO
Email:	crichards@sbcfire.org
Phone Number:	9093868419

Global Id:	T0607100407
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rose.scott@waterboards.ca.gov
Phone Number:	9513206375

LUST:

Global Id:	T0607100407
Action Type:	ENFORCEMENT
Date:	09/24/1996
Action:	Closure/No Further Action Letter

Global Id:	T0607100407
Action Type:	Other
Date:	12/21/1995
Action:	Leak Discovery

Global Id:	T0607100407

VALLEY HAY COMPANY (Continued) **S109285119**

Action Type: Other
Date: 12/21/1995
Action: Leak Stopped

Global Id: T0607100407
Action Type: Other
Date: 01/17/1996
Action: Leak Reported

Global Id: T0607100407
Action Type: REMEDIATION
Date: 02/13/1996
Action: Excavation

LUST:
Global Id: T0607100407
Status: Open - Case Begin Date
Status Date: 12/21/1995

Global Id: T0607100407
Status: Open - Site Assessment
Status Date: 12/21/1995

Global Id: T0607100407
Status: Open - Remediation
Status Date: 02/13/1996

Global Id: T0607100407
Status: Completed - Case Closed
Status Date: 09/24/1996

CERS HAZ WASTE:
Name: ROBERT FORD TRUCKING
Address: 14042 S EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 148511
CERS ID: 10043905
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: ROBERT FORD TRUCKING
Address: 14042 S EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 148511
CERS ID: 10043905
CERS Description: Underground Storage Tank

CORTESE:
Name: VALLEY HAY COMPANY
Address: 14042 S EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100407

VALLEY HAY COMPANY (Continued) **S109285119**

Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

San Bern. Co. Permit:

Name:	ROBERT FORD TRUCKING
Address:	14042 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0005763
Owner:	Paul Ford
Permit Number:	PT0004281
Permit Category:	HAZMAT HANDLER, UST ONLY - PER YEAR
Facility Status:	ACTIVE
Expiration Date:	10/31/2021

Name:	ROBERT FORD TRUCKING
Address:	14042 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0005763
Owner:	Paul Ford
Permit Number:	PT0024918
Permit Category:	WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status:	ACTIVE
Expiration Date:	10/31/2021

Name:	ROBERT FORD TRUCKING
Address:	14042 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0005763
Owner:	Paul Ford
Permit Number:	PT0010890
Permit Category:	REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status:	ACTIVE
Expiration Date:	10/31/2021

Name:	ROBERT FORD TRUCKING
Address:	14042 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO

VALLEY HAY COMPANY (Continued) **S109285119**

Facility ID: FA0005763
Owner: Paul Ford
Permit Number: PT0037572
Permit Category: HAZARDOUS WASTE CONSOLIDATION (NB)
Facility Status: FEE EXEMPT
Expiration Date: 10/31/2017

Name: ROBERT FORD TRUCKING
Address: 14042 S EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0005763
Owner: Paul Ford
Permit Number: PT0037571
Permit Category: UST GENERAL HEALTH PROGRAM RECORD
Facility Status: FEE EXEMPT
Expiration Date: 10/31/2017

Name: ROBERT FORD TRUCKING
Address: 14042 S EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0005763
Owner: Paul Ford
Permit Number: PT0024919
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 10/31/2013

CERS:
Name: VALLEY HAY COMPANY
Address: 14042 S EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 222057
CERS ID: T0607100407
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Local Agency Caseworker
Entity Name: CATHERINE RICHARDS - SAN BERNARDINO COUNTY
Entity Title: Not reported
Affiliation Address: 620 SOUTH E STREET
Affiliation City: SAN BERNARDINO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9093868419

Affiliation Type Desc: Regional Board Caseworker
Entity Name: ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: 9513206375

VALLEY HAY COMPANY (Continued) **S109285119**

Name: ROBERT FORD TRUCKING
Address: 14042 S EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 148511
CERS ID: 10043905
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-31-2014
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description: Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes: Returned to compliance on 07/31/2014. AS OF JANUARY 1, 2014 ALL UST FACILITIES MUST SUBMIT ALL UST DOCUMENTS ON LINE INTO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) INCLUDING BUT NOT LIMITED TO UST MONITORING/RESPONSE PLAN, UST TANK APPLICATION WITH TANK FORMS, OWNER/OPERATOR AGREEMENT, UST D.O. STATEMENT, AND EVIDENCE OF FINANCIAL RESPONSIBILITY FOR UST SYSTEM. PREPARE AND SUBMIT UST PERMIT APPLICATION WITH TANK FORMS TO THIS DEPARTMENT ON LINE THROUGH CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-31-2014
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 07/31/2014. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) AS OF JANUARY 1, 2014 ALL UST FACILITIES MUST SUBMIT ALL UST DOCUMENTS ON LINE INTO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) INCLUDING BUT NOT LIMITED TO UST MONITORING/RESPONSE PLAN, UST TANK APPLICATION WITH TANK FORMS, OWNER/OPERATOR AGREEMENT, UST D.O. STATEMENT, AND EVIDENCE OF FINANCIAL RESPONSIBILITY FOR UST SYSTEM. PREPARE AND SUBMIT SIGNED UST DESIGNATED OPERATOR STATEMENT TO THIS DEPARTMENT ON LINE THROUGH CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-24-2018
Citation: HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 07/24/2018. OBSERVATION: Tank installation date is incorrect in CERS, it needs to be 01/30/1996. CORRECTIVE ACTION: Tank installation date was corrected while on-site, no further corrective action necessary.
Violation Division: San Bernardino County Fire Department

VALLEY HAY COMPANY (Continued) **S109285119**

Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-28-2016
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 10/20/2016. MOST RECENT CERS SUBMITTAL ON 10/20/2016 ADDRESSES/CORRECTS THIS VIOLATION. 10/21/2016 ASAGUAN THE FOLLOWING DEFICIENCIES WERE OBSERVED UPON REVIEW OF THE MOST RECENT TANK APPLICATION SUBMITTAL WHICH INCLUDES TANK INFORMATION ON LINE IN CERS: -TANK MANUFACTURER WAS NOTED AS VEEDER ROOT. VEEDER ROOT IS NOT A TANK MANUFACTURER. -INSTALLATION DATE WAS NOT NOTED. IMMEDIATELY CORRECT THE ABOVE NOTED DEFICIENCIES ON LINE IN CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-23-2019
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes: Returned to compliance on 11/18/2019. OBSERVATION: Upon authorizing the West facing dispenser, the fuel piping within the dispenser releases fuel within the dispenser. CORRECTIVE ACTION: Submit a work plan to make required repairs to the West facing dispenser so that a release does not occur or submit plans to remove dispenser/cap the fuel supply line within 30 days. Permit is being withheld since violation has not been corrected since the last monitoring certification on 08/24/2018.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-25-2017
Citation: HSC 6.7 25290.1(c)(3), 25290.2(c)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(c)(3), 25290.2(c)(3)
Violation Description: Failure to keep water out of the secondary containment of UST systems installed on or after July 1, 2003 and before July 1, 2004, or on or after July 1, 2004.
Violation Notes: Returned to compliance on 07/25/2017. UST PIPING SUMP HAD APPROXIMATELY 10 GALLONS OF WATER INSIDE PUMPED OUT BY THE UST TECHNICIAN AT THE START OF THE INSPECTION. PER UST FACILITY REPRESENTATIVE, BRADY KOOIMAN, WATER MAY HAVE BEEN DUE TO INTRUSION FROM CAR WASHING ACTIVITY BEING DONE ON THE TANK PAD. FACILITY REPRESENTATIVE, BRADY KOOIMAN, ASSURED THAT VEHICLE WASHING ACTIVITY WILL BE DONE ELSEWHERE AND AWAY FROM THE TANK PAD. VIOLATION CORRECTED AT TIME OF INSPECTION.
Violation Division: San Bernardino County Fire Department

VALLEY HAY COMPANY (Continued) **S109285119**

Violation Program:	UST
Violation Source:	CERS
Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Violation Date:	04-14-2016
Citation:	HSC 6.95 25508.1(a)-(e) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(e)
Violation Description:	Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name.
Violation Notes:	Inventory submitted to CERS does not reflect the inventory on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Violation Date:	07-24-2018
Citation:	HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description:	Failure to operate the UST system to prevent unauthorized releases including leaks, spills, and/or overfills.
Violation Notes:	Returned to compliance on 11/18/2019. OBSERVATION: In the West Dispenser, upon authorization the fuel piping within the dispenser releases fuel within the dispenser into the UDC. CORRECTIVE ACTION: Troubleshoot and repair dispenser so that a release does not occur. Witnessed test of dispenser functionality and sensor functionality within 30 days. Contact (909) 386-8464 to schedule re-inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Violation Date:	04-14-2016
Citation:	22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description:	Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes:	Drained used oil filter drum missing accumulation start date.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Violation Date:	04-14-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Failure to inspect Hazardous Waste container storage areas weekly (CCR 66265.174) Facility is not conducting weekly inspections of their hazardous waste storage area.

VALLEY HAY COMPANY (Continued) **S109285119**

Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-24-2018
Citation: 23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description: Failure to have an approved UST Monitoring Plan.
Violation Notes: Returned to compliance on 07/23/2019. OBSERVATION: Tank pages and monitoring site plan are not accurate and missing information. CORRECTIVE ACTION: Update CERS to reflect the following: Tank pages were corrected on-site. The monitoring site plan must include the piping layout. Designated operator statement is expired and needs to be updated. Correct the following in CERS within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 04-14-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) Waste containers containing used oil and waste antifreeze missing information on the hazardous waste label.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 04-14-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Failure to label hazardous waste containers (CCR 66262.34(f)(3)) Waste antifreeze and waste oil containers missing hazardous waste label.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 04-14-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Failure to obtain an EPA ID Number (CCR 66262.12(a)) EPA ID # not active at time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

VALLEY HAY COMPANY (Continued) **S109285119**

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-31-2014
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 07/31/2014. AS OF JANUARY 1, 2014 ALL UST FACILITIES MUST SUBMIT ALL UST DOCUMENTS ON LINE INTO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) INCLUDING BUT NOT LIMITED TO UST MONITORING/RESPONSE PLAN, UST TANK APPLICATION WITH TANK FORMS, OWNER/OPERATOR AGREEMENT, UST D.O. STATEMENT, AND EVIDENCE OF FINANCIAL RESPONSIBILITY FOR UST SYSTEM. PREPARE AND SUBMIT UST EVIDENCE OF FINANCIAL RESPONSIBILITY TO THIS DEPARTMENT ON LINE THROUGH CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-25-2017
Citation: 23 CCR 16 2641(a) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(a)
Violation Description: Failure of leak detection equipment to be located such that equipment is capable of detecting a leak at the earliest possible opportunity.
Violation Notes: Returned to compliance on 07/25/2017. VR208 LIQUID SENSOR INSIDE THE PIPING SUMP WAS LOCATED OPPOSITE OF PRODUCT PIPING SIDE AND NOT AT THE EARLIEST POSSIBLE OPPORTUNITY TO DETECT A LEAK. PER UST TECHNICIAN, BRACKETS WILL BE INSTALLED TO MAINTAIN SENSOR AT THE EARLIEST OPPORTUNITY TO DETECT A LEAK. VIOLATION CORRECTED AT TIME OF INSPECTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 04-14-2016
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Failure to note accumulation start date on labels (CCR 66262.34(f)(2)) Accumulation start date missing on each hazardous waste container.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 04-14-2016
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Failure to maintain used oil disposal receipts for at least 3 years (CHSC 25160.2(b)(3)) Disposal records not available for 2014-2015.
Violation Division: San Bernardino County Fire Department

VALLEY HAY COMPANY (Continued) **S109285119**

Violation Program: HW
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-31-2014
Citation: 23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description: Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes: Returned to compliance on 07/31/2014. AS OF JANUARY 1, 2014 ALL UST FACILITIES MUST SUBMIT ALL UST DOCUMENTS ON LINE INTO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) INCLUDING BUT NOT LIMITED TO UST MONITORING/RESPONSE PLAN, UST TANK APPLICATION WITH TANK FORMS, OWNER/OPERATOR AGREEMENT, UST D.O. STATEMENT, AND EVIDENCE OF FINANCIAL RESPONSIBILITY FOR UST SYSTEM. PREPARE AND SUBMIT UST MONITORING/RESPONSE PLANS TO THIS DEPARTMENT ON LINE THROUGH CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-28-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 10/20/2016. MOST RECENT CERS SUBMITTAL ON 10/20/2016 ADDRESSES/CORRECTS THIS VIOLATION. 10/21/2016 ASAGUAN THE FOLLOWING DEFICIENCIES WERE OBSERVED UPON REVIEW OF THE EVIDENCE OF FINANCIAL RESPONSIBILITY FOR THE UST SYSTEM ON LINE IN CERS: -CERTIFICATE OF FINANCIAL RESPONSIBILITY (STATE FORM) HAS NOT BEEN COMPLETED TO INDICATE THE INSURANCE POLICY MECHANISM USED. -CFO LETTER SUBMITTED ON LINE IN CERS WAS NOT COMPLETED. CFO LETTER MUST AT THE MINIMUM INDICATE FINANCIAL CAPABILITY TO COVER DEDUCTIBLE OF THE INSURANCE POLICY FOR THE UST SYSTEM. UPDATE/PROVIDE CERTIFICATE OF FINANCIAL RESPONSIBILITY AND CFO LETTER ON LINE IN CERS ADDRESSING ABOVE NOTED DEFICIENCIES WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-24-2018
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 07/24/2018. OBSERVATION: Certificate of Financial Responsibility (CFR) expired on 04/29/2018. CORRECTIVE ACTION: CFR was updated in CERS while on-site, no further corrective action necessary.
Violation Division: San Bernardino County Fire Department
Violation Program: UST

VALLEY HAY COMPANY (Continued) **S109285119**

Violation Source:	CERS
Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Violation Date:	04-14-2016
Citation:	HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Failure to determine if waste is hazardous waste (CCR 66262.11) (2) 55 gal of unknown hazardous waste observed at time of inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Violation Date:	07-25-2017
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 07/25/2017. INSURANCE POLICY AS PART OF THE FINANCIAL RESPONSIBILITY FOR UST SYSTEM EXPIRED ON 4/29/2017. CURRENT FINANCIAL RESPONSIBILITY WAS UPDATED DURING INSPECTION. VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Violation Date:	07-23-2019
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 07/23/2019. OBSERVATION: The following changes/updates need to be made on CERS. See corrective action below. CORRECTIVE ACTION: 1) Provide a current CFR (Certificate of Financial Responsibility). The certificate on CERS is expired. 2) Provide a current CFO (Chief Financial Officer) letter. The CFO letter on CERS is expired.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Violation Date:	07-21-2020
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 07/21/2020. OBSERVATION: The following changes/updates need to be made on CERS: CORRECTIVE ACTION: 1) Under the UST Monitoring Plan, indicate in the comments/additional information section that the G West facing dispenser was removed via permit. The UDC is monitored by VR 208G .

VALLEY HAY COMPANY (Continued) **S109285119**

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-25-2017
Citation: 23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description: Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes: Returned to compliance on 07/25/2017. BOARD OF EQUALIZATION (BOE) NUMBER 44047330, AS PART OF THE PERMIT APPLICATION ON LINE IN THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS), WAS CLOSED WHEN VERIFIED. BOE NUMBER UPDATED ON CERS AND VIOLATION CORRECTED AT TIME OF INSPECTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 148511
Site Name: ROBERT FORD TRUCKING
Violation Date: 07-28-2016
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 10/20/2016. Failure to have a written monitoring program with monitoring procedures and response plan (CHSC 25286(a)) MOST RECENT SUBMITTAL IN CERS ON 10/20/2016 ADDRESSES THE FOLLOWING DEFICIENCIES LISTED IN THIS VIOLATION. 10/28/2016 ASAGUAN THE FOLLOWING DEFICIENCIES WERE OBSERVED UPON REVIEW OF THE UST MONITORING PLAN: -INTERSTITIAL ANNULAR SENSOR (VR301) NOT NOTED ON THE MONITORING PLAN. -SECONDARY CONTAINMENT PIPING MONITORING SENSOR (VR208) NOT NOTED ON THE MONITORING PLAN. UPDATE THE UST MONITORING PLAN ADDRESSING THE ABOVE DEFICIENCIES ON LINE IN CERS WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-14-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department

VALLEY HAY COMPANY (Continued) **S109285119**

Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-21-2020
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On-site to conduct an Annual Underground Storage Tank (UST) inspection. Inspection was conducted during the annual monitoring certification testing.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-23-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	Witnessed the OPE inspection. Results pending.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-23-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On-site to conduct an Annual Underground Storage Tank (UST) inspection. Inspection was conducted during the annual monitoring certification testing.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-24-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UST INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-24-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-24-2019
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	Not reported

VALLEY HAY COMPANY (Continued) **S109285119**

Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-25-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICATION.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-28-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICATION.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-31-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: UST ANNUAL INSPECTION WITH MONITORING SYSTEM CERTIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-31-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROBERT FORD TRUCKING- UST MONITORING CERTERIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-06-2014
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: SB989 TEST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-18-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On-site to conduct a Final Plan Check Inspection for UDC removal.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

VALLEY HAY COMPANY (Continued) **S109285119**

Enforcement Action:

Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Site Address:	14042 S EUCLID AVE
Site City:	CHINO
Site Zip:	91710
Enf Action Date:	04-14-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Site Address:	14042 S EUCLID AVE
Site City:	CHINO
Site Zip:	91710
Enf Action Date:	04-14-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS

Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Site Address:	14042 S EUCLID AVE
Site City:	CHINO
Site Zip:	91710
Enf Action Date:	07-28-2016
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS

Site ID:	148511
Site Name:	ROBERT FORD TRUCKING
Site Address:	14042 S EUCLID AVE
Site City:	CHINO
Site Zip:	91710
Enf Action Date:	07-31-2014
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	UST
Enf Action Source:	CERS

Affiliation:

Affiliation Type Desc:	Document Preparer
Entity Name:	Brady Kooiman

VALLEY HAY COMPANY (Continued) **S109285119**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Brady Kooiman
Entity Title:	Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Brady J. Kooiman
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 590-1263
Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Brady Kooiman
Entity Title:	Corporate Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 590-1263
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14042 Euclid Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported

VALLEY HAY COMPANY (Continued) **S109285119**

Affiliation Type Desc:	Parent Corporation
Entity Name:	ROBERT FORD TRUCKING
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	Paul Ford
Entity Title:	Not reported
Affiliation Address:	14042 Euclid Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported

Affiliation Type Desc:	Legal Owner
Entity Name:	Paul Ford
Entity Title:	Not reported
Affiliation Address:	14042 Euclid Ave,
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91710
Affiliation Phone:	(909) 590-1263

Affiliation Type Desc:	Property Owner
Entity Name:	Paul Ford
Entity Title:	Not reported
Affiliation Address:	14042 Euclid Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91710
Affiliation Phone:	(909) 208-7856

Affiliation Type Desc:	UST Property Owner Name
Entity Name:	Robert R. Ford Trucking, Inc.
Entity Title:	Not reported
Affiliation Address:	14042 Euclid Ave.
Affiliation City:	Chino
Affiliation State:	Ca
Affiliation Country:	United States
Affiliation Zip:	90603
Affiliation Phone:	(909) 590-1263

Affiliation Type Desc:	UST Tank Operator
Entity Name:	Robert R. Ford Trucking, Inc.
Entity Title:	Not reported
Affiliation Address:	14042 Euclid Ave
Affiliation City:	Chino
Affiliation State:	Ca
Affiliation Country:	United States

VALLEY HAY COMPANY (Continued) **S109285119**

Affiliation Zip: 91710
Affiliation Phone: (909) 590-1263

Affiliation Type Desc: UST Tank Owner
Entity Name: Robert R. Ford Trucking, Inc.
Entity Title: Not reported
Affiliation Address: 14042 Euclid Ave
Affiliation City: Chino
Affiliation State: Ca
Affiliation Country: United States
Affiliation Zip: 91710
Affiliation Phone: (909) 590-1263

A16 **EZH INC** **CERS HAZ WASTE** **S124442974**
SSW **14042 EUCLID AVE** **HAZNET** **N/A**
< 1/8 **CHINO, CA 91710** **CERS**
0.042 mi.
222 ft. **Site 4 of 8 in cluster A**

Relative: CERS HAZ WASTE:
Lower
Name: EZH INC
Actual: Address: 14042 EUCLID AVE
695 ft. City,State,Zip: CHINO, CA 91710
Site ID: 551243
CERS ID: 10817230
CERS Description: Hazardous Waste Generator

HAZNET:
Name: EZH INC
Address: 14042 EUCLID AVE
Address 2: Not reported
City,State,Zip: CHINO, CA 91710
Contact: HASH-ULZII ERDENEKHUU
Telephone: 2132550999
Mailing Name: Not reported
Mailing Address: 14042 EUCLID AVE

Year: 2019
Gepaid: CAL000447876
TSD EPA ID: CAL000330453
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.10000

Year: 2018
Gepaid: CAL000447876
TSD EPA ID: CAD008252405
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.00750

Year: 2018
Gepaid: CAL000447876
TSD EPA ID: CAD008252405

EZH INC (Continued) **S124442974**

CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.00750

CERS:
Name: EZH INC
Address: 14042 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 551243
CERS ID: 10817230
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 551243
Site Name: EZH INC
Violation Date: 07-24-2019
Citation: Un-Specified
Violation Description: Hazardous Waste Generator Program - Administration/Documentation - General Local Ordinance
Violation Notes: OBSERVATION: Facility generates hazardous waste from business maintenance activities. Facility has not obtained a current hazardous waste generator permit. CORRECTIVE ACTION: Obtain a hazardous waste generator permit by submitting a business plan via the California Environmental Reporting System (CERS) at https://cers.calepa.ca.gov/. Pay permit fees upon receipt of invoice.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 551243
Site Name: EZH INC
Violation Date: 07-24-2019
Citation: Un-Specified
Violation Description: Business Plan Program - Administration/Documentation - General Local Ordinance
Violation Notes: OBSERVATION: Facility stores hazardous materials above the reportable quantities (55 gallons for liquids, 500 pounds for solids, and/or 200 cubic feet for compressed gases) and has not obtained a current hazardous material handler permit with this Division. CORRECTIVE ACTION: Obtain a hazardous materials handler permit by submitting a business plan via the California Environmental Reporting System (CERS) at https://cers.calepa.ca.gov/. Pay permit fees upon receipt of invoice.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 551243
Site Name: EZH INC
Violation Date: 07-24-2019
Citation: 22 CCR 12 66262.34(f) - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.34(f)
Violation Description: Failure to properly label hazardous waste accumulation containers and portable tanks with the following requirements: "Hazardous Waste", name and address of the generator, physical and chemical characteristics of the Hazardous Waste, and starting accumulation

EZH INC (Continued) **S124442974**

	date.
Violation Notes:	Returned to compliance on 07/24/2019. OBSERVATION: (1) 55 gallon drum of waste paper filters, (1) 55 gallon drum of waste coolant and (1) 250 gallon container of used oil were observed without a hazardous waste label. CORRECTED ON SITE: The items mentioned above were properly labeled at the time of inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	551243
Site Name:	EZH INC
Violation Date:	07-24-2019
Citation:	HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description:	Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/07/2019. OBSERVATION: Facility has not submitted a complete business plan into CERS. CERS ID 10817230. CORRECTIVE ACTION: Submit an accurate and complete business plan via CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	551243
Site Name:	EZH INC
Violation Date:	07-24-2019
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 07/24/2019. OBSERVATION: (1) 55 gallon drum of drained used oil filters was observed without a proper label. CORRECTED ON SITE: The drum mentioned above was properly labeled during the inspection.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	551243
Site Name:	EZH INC
Violation Date:	07-24-2019
Citation:	HSC 6.95 25507 - California Health and Safety Code, Chapter 6.95, Section(s) 25507
Violation Description:	Failure to adequately establish and implement a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 08/07/2019. OBSERVATION: Facility has not established and implemented a business plan. CORRECTIVE ACTION: Establish and implement the business plan via CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	551243

EZH INC (Continued) **S124442974**

Site Name: EZH INC
Violation Date: 07-24-2019
Citation: 22 CCR 12 66262.12 - California Code of Regulations, Title 22, Chapter 12, Section(s) 66262.12
Violation Description: Failure to obtain an Identification Number prior to treating, storing, disposing of, transporting or offering for transportation any hazardous waste.
Violation Notes: Returned to compliance on 08/06/2019. OBSERVATION: The generator has not obtained an active EPA ID number to manage hazardous waste. A hazardous waste generator shall not treat, store, dispose of, transport or offer for transportation, hazardous waste without an active EPA ID number. CORRECTIVE ACTION: Submit documentation to the CUPA demonstrating that you have obtained an EPA ID number.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 551243
Site Name: EZH INC
Violation Date: 07-24-2019
Citation: 40 CFR 1 265.173 - U.S. Code of Federal Regulations, Title 40, Chapter 1, Section(s) 265.173
Violation Description: Failure to meet the following container management requirements: (a) A container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste. (b) A container holding hazardous waste must not be opened, handled, or stored in a manner which may rupture the container or cause it to leak.
Violation Notes: OBSERVATION: (1) 55 gallon drum of waste paper filters, (1) 55 gallon drum of waste coolant and (1) 55 gallon drum of drained used oil filters were observed open when not in use. CORRECTIVE ACTION: Close all the hazardous waste containers and submit photos to the CUPA demonstrating that the container listed above has been properly closed.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-24-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 07-24-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

EZH INC (Continued) **S124442974**

Coordinates:

Site ID:	551243
Facility Name:	EZH INC
Env Int Type Code:	HMBP
Program ID:	10817230
Coord Name:	Not reported
Ref Point Type Desc:	Center of a facility or station.
Latitude:	33.999060
Longitude:	-117.651390

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	Hasha Erden
Entity Title:	Not reported
Affiliation Address:	14042 Euclid Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported

Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14042 Euclid Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91767
Affiliation Phone:	Not reported

Affiliation Type Desc:	Identification Signer
Entity Name:	Hashulzii Erdenekhuu
Entity Title:	President
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401

Affiliation Type Desc:	Document Preparer
Entity Name:	Hashulzii Erdenekhuu
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported

EZH INC (Continued) **S124442974**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Ezh Inc
Entity Title:	Not reported
Affiliation Address:	14042 Euclid Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91710
Affiliation Phone:	(909) 628-1394
Affiliation Type Desc:	Operator
Entity Name:	Ezh Inc
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 628-1394
Affiliation Type Desc:	Parent Corporation
Entity Name:	Ezh Inc
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

A17 **ROBERT FORD TRUCKING** **UST** **U003785130**
SSW **14042 EUCLID AVE** **N/A**
< 1/8 **CHINO, CA 91710**
0.042 mi.
222 ft. **Site 5 of 8 in cluster A**

Relative: UST:
Lower

Actual: Name:	ROBERT FORD TRUCKING
695 ft. Address:	14042 EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Facility ID:	89018065
Permitting Agency:	SAN BERNARDINO COUNTY
Latitude:	34.00017
Longitude:	-117.6498296

A18 **VALLEY HAY COMPANY** **LUST** **S102440823**
SSW **14042 EUCLID AVE** **HIST CORTESE** **N/A**
< 1/8 **CHINO, CA 91710** **San Bern. Co. Permit**
0.042 mi.
222 ft. **Site 6 of 8 in cluster A**

Relative: **Lower**

Actual: **695 ft.**

LUST REG 8:

Name:	VALLEY HAY COMPANY
Address:	14042 EUCLID AVE
City:	CHINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083602807T
Local Case Num:	96002
Case Type:	Soil only
Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	CLOS
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0607100407
How Stopped Date:	12/21/1995
Enter Date:	3/19/1996
Date Confirmation of Leak Began:	12/21/1995
Date Preliminary Assessment Began:	Not reported
Discover Date:	12/21/1995
Enforcement Date:	Not reported
Close Date:	9/24/1996
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	2/13/1996
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	3/19/1996
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.998117
Longitude:	-117.6505282
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	RS
Staff Initials:	CR2
Lead Agency:	Local Agency

VALLEY HAY COMPANY (Continued) **S102440823**

Local Agency: 36000L
Hydr Basin #: UPPER SANTA ANA VALL
Beneficial: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Work Suspended: Not reported
Summary: Not reported

HIST CORTESE:
edr_fname: VALLEY HAY COMPANY
edr_fadd1: 14042 EUCLID
City,State,Zip: CHINO, CA 91710
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083602807T

San Bern. Co. Permit:
Name: EZH INC.
Address: 14042 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0018310
Owner: EZH INC.
Permit Number: PT0039610
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 09/30/2021

Name: EZH INC.
Address: 14042 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0018310
Owner: EZH INC.
Permit Number: PT0039611
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 09/30/2021

A19 **ROBERT FORD TRUCKING** **UST** **U004263905**
SSW **14042 S EUCLID AVE** **N/A**
< 1/8 **CHINO, CA 91710**
0.042 mi.
222 ft. **Site 7 of 8 in cluster A**

Relative: UST:
Lower
Actual: Name: ROBERT FORD TRUCKING
695 ft. Address: 14042 S EUCLID AVE
City,State,Zip: CHINO, CA 91710
Facility ID: FA0005763
Permitting Agency: San Bernardino County Fire Department
Latitude: 33.99755
Longitude: -117.650889

A20 **EZH, INC** **RCRA NonGen / NLR** **1025874744**
SSW **14042 EUCLID AVE** **CAL000447876**
< 1/8 **CHINO, CA 91710**
0.042 mi.
222 ft. **Site 8 of 8 in cluster A**

Relative: **Lower**
Actual: **695 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2019-07-31 00:00:00.0
Handler Name:	EZH, INC	
Handler Address:		14042 EUCLID AVE
Handler City,State,Zip:		CHINO, CA 91710
EPA ID:		CAL000447876
Contact Name:		HASH-ULZII ERDENEKHUU
Contact Address:		959 S GRAMERCY PL #209
Contact City,State,Zip:		LOS ANGELES, CA 90019
Contact Telephone:		213-255-0999
Contact Fax:		213-254-0458
Contact Email:		HASHAERDENCONTAC@EZHINC.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Not reported
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		14042 EUCLID AVE
Mailing City,State,Zip:		CHINO, CA 91710
Owner Name:		HASH-ULZII ERDENEKHUU
Owner Type:		Other
Operator Name:		HASH-ULZII ERDENEKHUU
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		No
Universal Waste Destination Facility:		No
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

EZH, INC (Continued) **1025874744**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-09-10 12:41:00.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	HASH-ULZII ERDENEKHUU
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	959 S GRAMERCY PL #209
Owner/Operator City,State,Zip:	LOS ANGELES, CA 90019
Owner/Operator Telephone:	213-255-0999
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	HASH-ULZII ERDENEKHUU
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	959 S GRAMERCY PL #209
Owner/Operator City,State,Zip:	LOS ANGELES, CA 90019
Owner/Operator Telephone:	213-255-0999
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

EZH, INC (Continued) **1025874744**

Historic Generators:
Receive Date: 2019-07-31 00:00:00.0
Handler Name: EZH, INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 56299
NAICS Description: ALL OTHER WASTE MANAGEMENT SERVICES

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

B21 **VERIZON WIRELESS: COMET** **San Bern. Co. Permit** **S119102883**
South **7152 EDISON AVE** **N/A**
< 1/8 **ONTARIO, CA 91762**
0.055 mi.
289 ft. **Site 2 of 2 in cluster B**

Relative:
Lower

Actual:
691 ft.

San Bern. Co. Permit:
Name: VERIZON WIRELESS: COMET
Address: 7152 EDISON AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0017156
Owner: Verizon Wireless
Permit Number: PT0036520
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: ACTIVE
Expiration Date: 12/31/2020

F22 **CHEVRON 307826 H&S ENERGY PRODUCTS LLC #2052** **RCRA NonGen / NLR** **1026723759**
SSW **14088 EUCLID AVE** **CAL000460877**
< 1/8 **CHINO, CA 91710**
0.055 mi.
292 ft. **Site 5 of 9 in cluster F**

Relative:
Lower

Actual:
691 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2021-03-11 00:00:00.0
Handler Name: CHEVRON 307826 H&S ENERGY PRODUCTS LLC #2052
Handler Address: 14088 EUCLID AVE
Handler City,State,Zip: CHINO, CA 91710

CHEVRON 307826 H&S ENERGY PRODUCTS LLC #2052 (Continued) **1026723759**

EPA ID:	CAL000460877
Contact Name:	VICTOR HASSAN
Contact Address:	2860 N SANTIAGO BLVD
Contact City,State,Zip:	ORANGE, CA 92867
Contact Telephone:	714-761-5426
Contact Fax:	Not reported
Contact Email:	ANGELA@HASOIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	2860 N SANTIAGO BLVD
Mailing City,State,Zip:	ORANGE, CA 92867
Owner Name:	H&S ENERGY PRODUCTS LLC
Owner Type:	Other
Operator Name:	VICTOR HASSAN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No

CHEVRON 307826 H&S ENERGY PRODUCTS LLC #2052 (Continued) **1026723759**

TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2021-03-12 19:46:41.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	H&S ENERGY PRODUCTS LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 N SANTIAGO BLVD
Owner/Operator City,State,Zip:	ORANGE, CA 92867
Owner/Operator Telephone:	714-761-5426
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	VICTOR HASSAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2860 N SANTIAGO BLVD
Owner/Operator City,State,Zip:	ORANGE, CA 92867
Owner/Operator Telephone:	714-761-5426
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2021-03-11 00:00:00.0
Handler Name:	CHEVRON 307826 H&S ENERGY PRODUCTS LLC #2052
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No

CHEVRON 307826 H&S ENERGY PRODUCTS LLC #2052 (Continued) **1026723759**

Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: No
Electronic Manifest Broker: No

List of NAICS Codes and Descriptions:
NAICS Code: 447190
NAICS Description: OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

F23 **EMJ INVESTMENT INC** **RCRA NonGen / NLR** **1024854667**
SSW **14088 EUCLID AVE** **CAL000416111**
< 1/8 **CHINO, CA 91710**
0.055 mi.
292 ft. **Site 6 of 9 in cluster F**

Relative: RCRA NonGen / NLR:
Lower
Actual: Date Form Received by Agency: 2016-04-11 00:00:00.0
691 ft. Handler Name: EMJ INVESTMENT INC
Handler Address: 14088 EUCLID AVE
Handler City,State,Zip: CHINO, CA 91710
EPA ID: CAL000416111
Contact Name: MAHER SEDRAK
Contact Address: 14088 EUCLID AVE
Contact City,State,Zip: CHINO, CA 91710
Contact Telephone: 909-464-1600
Contact Fax: 877-869-6454
Contact Email: CHINOCHEV@GMAIL.COM
Contact Title: Not reported
EPA Region: 09
Land Type: Not reported
Federal Waste Generator Description: Not a generator, verified
Non-Notifier: Not reported
Biennial Report Cycle: Not reported
Accessibility: Not reported
Active Site Indicator: Handler Activities
State District Owner: Not reported
State District: Not reported
Mailing Address: 14088 EUCLID AVE
Mailing City,State,Zip: CHINO, CA 91710
Owner Name: EMJ INVESTMENT INC
Owner Type: Other
Operator Name: MAHER SEDRAK
Operator Type: Other
Short-Term Generator Activity: No
Importer Activity: No
Mixed Waste Generator: No
Transporter Activity: No
Transfer Facility Activity: No

EMJ INVESTMENT INC (Continued) **1024854667**

Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-06 17:07:39.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	EMJ INVESTMENT INC
Legal Status:	Other
Date Became Current:	Not reported

EMJ INVESTMENT INC (Continued) **1024854667**

Date Ended Current:	Not reported
Owner/Operator Address:	14088 EUCLID AVE
Owner/Operator City,State,Zip:	CHINO, CA 91710
Owner/Operator Telephone:	909-464-1600
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported
Owner/Operator Indicator:	Operator
Owner/Operator Name:	MAHER SEDRAK
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14088 EUCLID AVE
Owner/Operator City,State,Zip:	CHINO, CA 91710
Owner/Operator Telephone:	909-464-1600
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2016-04-11 00:00:00.0
Handler Name: EMJ INVESTMENT INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44719
NAICS Description:	OTHER GASOLINE STATIONS

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

F24 **CHINO CHEVRON** **UST** **U004264096**
SSW **14088 EUCLID AVE** **N/A**
< 1/8 **CHINO, CA 91710**
0.055 mi.
292 ft. **Site 7 of 9 in cluster F**

Relative: UST:
Lower

Name:	CHINO CHEVRON
Address:	14088 EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Facility ID:	FA0010880

Actual:
691 ft.

CHINO CHEVRON (Continued) **U004264096**

Permitting Agency: San Bernardino County Fire Department
Latitude: 33.998079
Longitude: -117.651054

F25 **EMJ INVESTMENT INC** **CERS HAZ WASTE** **S108985819**
SSW **14088 EUCLID AVE** **CERS TANKS** **N/A**
< 1/8 **CHINO, CA 91710** **HAZNET**
0.055 mi. **San Bern. Co. Permit**
292 ft. **Site 8 of 9 in cluster F** **CERS**
HWTS

Relative:
Lower

Actual:
691 ft.

CERS HAZ WASTE:
Name: CHINO CHEVRON
Address: 14088 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 38173
CERS ID: 10051936
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: CHINO CHEVRON
Address: 14088 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 38173
CERS ID: 10051936
CERS Description: Underground Storage Tank

HAZNET:
Name: EMJ INVESTMENT INC
Address: 14088 EUCLID AVE
Address 2: Not reported
City,State,Zip: CHINO, CA 91710
Contact: MAHER SEDRAK
Telephone: 9094641600
Mailing Name: Not reported
Mailing Address: 14088 EUCLID AVE

Year: 2019
Gepaid: CAL000416111
TSD EPA ID: CAD028409019
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05000

Year: 2018
Gepaid: CAL000416111
TSD EPA ID: CAD028409019
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.05000

Year: 2018
Gepaid: CAL000416111
TSD EPA ID: CAD028409019
CA Waste Code: 241 - Tank bottom waste

EMJ INVESTMENT INC (Continued) **S108985819**

Disposal Method:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.22935
Year:	2017
Gepaid:	CAL000416111
TSD EPA ID:	CAD028409019
CA Waste Code:	241 - Tank bottom waste
Disposal Method:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.18765
Year:	2017
Gepaid:	CAL000416111
TSD EPA ID:	CAD028409019
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.025
Year:	2016
Gepaid:	CAL000416111
TSD EPA ID:	CAD028409019
CA Waste Code:	352 - Other organic solids
Disposal Method:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.075
Year:	2016
Gepaid:	CAL000416111
TSD EPA ID:	CAD028409019
CA Waste Code:	241 - Tank bottom waste
Disposal Method:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Tons:	0.06255

Additional Info:

Year:	2017
Gen EPA ID:	CAL000416111
Shipment Date:	20170501
Creation Date:	5/21/2018 18:33:13
Receipt Date:	20170508
Manifest ID:	015403484JJK
Trans EPA ID:	CAR000172874
Trans Name:	ABLE ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	352 - Other organic solids
RCRA Code:	Not reported
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)

EMJ INVESTMENT INC (Continued) **S108985819**

Quantity Tons:	0.025
Waste Quantity:	50
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported
Shipment Date:	20170501
Creation Date:	5/16/2018 18:30:21
Receipt Date:	20170508
Manifest ID:	015403483JJK
Trans EPA ID:	CAR000172874
Trans Name:	ABLE ENVIRONMENTAL SERVICES
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	241 - Tank bottom waste 251 Still bottoms with halogenated organics
RCRA Code:	Not reported
Meth Code:	H135 - Discharge To Sewer/Potw Or Npdes(With Prior Storage--With Or Without Treatment)
Quantity Tons:	0.18765
Waste Quantity:	45
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

San Bern. Co. Permit:

Name:	CHINO CHEVRON
Address:	14088 EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0010880
Owner:	MAHER SEDRAK
Permit Number:	PT0019706
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	01/31/2021

Name:	CHINO CHEVRON
Address:	14088 EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0010880
Owner:	MAHER SEDRAK
Permit Number:	PT0019707
Permit Category:	WASTE INCIDENTAL UST OPERATION ONLY -PER YEAR
Facility Status:	ACTIVE
Expiration Date:	01/31/2021

EMJ INVESTMENT INC (Continued) **S108985819**

Name: CHINO CHEVRON
Address: 14088 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0010880
Owner: MAHER SEDRAK
Permit Number: PT0019708
Permit Category: COMPLEX ANNUAL INSP VPH/ > 8 DISP (PER TANK)
Facility Status: ACTIVE
Expiration Date: 01/31/2021

Name: CHINO CHEVRON
Address: 14088 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0010880
Owner: MAHER SEDRAK
Permit Number: PT0019709
Permit Category: COMPLEX ANNUAL INSP VPH/ > 8 DISP (PER TANK)
Facility Status: ACTIVE
Expiration Date: 01/31/2021

Name: CHINO CHEVRON
Address: 14088 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0010880
Owner: MAHER SEDRAK
Permit Number: PT0019710
Permit Category: COMPLEX ANNUAL INSP VPH/ > 8 DISP (PER TANK)
Facility Status: ACTIVE
Expiration Date: 01/31/2021

CERS:
Name: CHINO CHEVRON
Address: 14088 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 38173
CERS ID: 10051936
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 38173
Site Name: chino chevron
Violation Date: 06-02-2015
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain and maintain a valid operation permit from the CUPA.
Violation Notes: Returned to compliance on 08/06/2015. FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR NEW PERMITS. FACILITY DID NOT COMPLETE CERS SUBMITTAL. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 7 (SEVEN) DAYS. FAILURE TO COMPLY WILL RESULT IN FURTHER ACTION INCLUDING RED TAG OF UST'S.
Violation Division: San Bernardino County Fire Department
Violation Program: UST

EMJ INVESTMENT INC (Continued) **S108985819**

Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-21-2016
Citation:	23 CCR 6.7 25284, 25286 - California Code of Regulations, Title 23, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 01/13/2017. COMPLIANCE ACTIVITY: VERIFIED CERS SUBMITTED WITH CORRECTIONS. TC OBSERVATION: CERS data does not match field observations. COMPLIANCE: Within 30 days correct following: Tank information: T1 87 capacity 20,000 gallon. Overfill protection add audible and visual alarm. UDC construction material is not rigid plastic correct to fiberglass.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-03-2014
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 08/06/2015. Failure to have a written monitoring program with monitoring procedures and response plan. (CCR 2632(d)) OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED UST DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) COMPLIANCE REQUIREMENT: SUBMIT UST DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-21-2017
Citation:	HSC 6.7 25291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 25291(b)
Violation Description:	Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance into the secondary containment.
Violation Notes:	Returned to compliance on 11/21/2017. OBSERVED SENSOR AT UDC 15/16, VR-208 AND BRINE SENSOR AT 87 STP, VR-304, NOT PROPERLY FUNCTIONING WHEN TESTED. COMPLIANCE REQUIREMENT: TECHNICIAN REPLACED BOTH SENSORS WITH "LIKE FOR LIKE" SENSOR AND RETESTED. VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-03-2014
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34

EMJ INVESTMENT INC (Continued) **S108985819**

Violation Description:	Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes:	Returned to compliance on 08/06/2015. OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED UST DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) COMPLIANCE REQUIREMENT: SUBMIT UST DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-03-2015
Citation:	HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description:	Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary containment.
Violation Notes:	Returned to compliance on 11/03/2015. LEAK WAS OBSERVED AT DIESEL PIPING AT UDC #1. COMPLIANCE REQUIREMENT: TECHNICIAN REPAIRED PORPORTIONAL VALVE AT DIESEL PIPING FOR UDC #1 DURING INSPECTION AND REMOVED LIQUID IN SUMP. VIOLATION CORRECTED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-21-2016
Citation:	HSC 6.7 25290.1(d) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(d)
Violation Description:	Failure of a UST system installed on or after July 1, 2004 to be designed and constructed with a monitoring system capable of detecting the entry of the liquid or vapor-phase of the hazardous substance stored in the primary containment into the secondary containment and capable of detecting water intrusion into the secondary containment.
Violation Notes:	Returned to compliance on 11/21/2016. OBSERVATION: Containments G Liquid observed in most UDCs and 87 STP Fill Sump insufficient to alarm. COMPLIANCE: Maintain sumps in clean and dry condition. Contractor Corrected today.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-21-2016
Citation:	23 CCR 16 2712 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712
Violation Description:	Failure to comply with any of the applicable requirements of the permit issued for the operation of the UST system.
Violation Notes:	Returned to compliance on 11/21/2016. OBSERVATION: The following sensors failed to alarm when tested: L6 87 STP Brine, L13 Diesel STP, L24 UDC Brine COMPLIANCE: Contractor replaced and retested sensors

EMJ INVESTMENT INC (Continued) **S108985819**

today. Violation corrected same day.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 10-23-2013
Citation: HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 11/03/2014. Failure to obtain an EPA ID Number (CCR 66262.12(a))
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-03-2014
Citation: HSC 6.7 25291 - California Health and Safety Code, Chapter 6.7, Section(s) 25291
Violation Description: Failure to maintain under-dispenser containment, sumps, and/or other secondary containment in good condition and/or free of debris/liquid.
Violation Notes: Returned to compliance on 11/03/2014. OBSERVATION: LIQUID WAS OBSERVED IN THE VENT BOX (SUMP) COMPLIANCE MET ON SITE: TECHNICIAN REMOVED LIQUID FROM SUMP.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-21-2017
Citation: HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description: UST Program -General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes: Returned to compliance on 12/11/2017. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) FACILITY MADE CORRECTION IN CERS ON 12/11/17, CLOSE OUT VIOLATION PER P. SAAVEDRA -PREYES Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) OBSERVED DESIGNATED OPERATOR (DO) ICC EXPIRATION DATE OF 3/26/17. COMPLIANCE REQUIREMENT: UPDATE ICC TO REFLECT CURRENT EXPIRATION DATE. UPLOAD TO CERS WEBSITE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-03-2015
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.

EMJ INVESTMENT INC (Continued) **S108985819**

Violation Notes: Returned to compliance on 05/26/2016. CERTIFICATE OF FINANCIAL RESPONSIBILITY (CFR), OWNER OPERATOR STATEMENT AND UST EMERGENCY RESPONSE PLAN WERE NOT AVAILABLE FOR REVIEW ON CERS. INVENTORY WAS MISSING HAZARDOUS WASTE. UPDATE CERS CHEMICAL QUANTITIES FOR FUEL UST CAPACITIES. QUANTITIES DIFFER ON VEEDER ROOT AND FILE HISTORY. ADD EPA ID NUMBER TO CERS. COMPLIANCE REQUIREMENT: SUBMIT REQUIRED DOCUMENTS TO CERS WEBSITE. CERS MUST BE REVIEWED ANNUALLY. SUBMIT SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS. 4/8/16 CALLED FACILITY REGARDING OUTSTANDING VIOLATIONS. WAS INFORMED FACILITY IS UNDER NEW MANAGEMENT AND EMAIL ADDRESS HAS CHANGED. SENT NEW MANAGER INSPECTION REPORT COPY. 5/26/16 FACILITY REINSPECTED. CERS SUBMITTAL AVAILABLE AND REVIEWED. VIOLATIONS CORRECTED. PSAAVEDRA 5/26/16 EMAIL SENT REGARDING DO STMT. PSAAVEDRA.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-03-2014
Citation: HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary containment.
Violation Notes: Returned to compliance on 11/03/2014. OBSERVATION: (1) The VR 304-Brine sensor, located in the Vent Box failed when tested. (2) The VR-304- Brine sensor, located in the DieselG s Turbine Sump failed when tested. It was observed that the retaining clip on the sensor was pushed up against the float, preventing the sensor from functioning. (3) The Diesel PLLD (Electrical Line Leak Detector) failed when tested. (4) A 15 foot wood metering stick was observed in the DieselG s fill tube COMPLIANCE MET ON SITE: (1) Technician replaced and tested replacement sensor. (2) Technician removed and placed the clip in the correct position. VR- 304 sensor was re-tested. (3) Technician replaced the siphon jet located in the Diesel turbine and re-tested. (4) Technician removed stick from diesel fill tube.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 10-23-2013
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description: Failure to comply with one or more of the operating permit conditions.
Violation Notes: Returned to compliance on 11/03/2014. PRODUCT LINE VACUUM SENSOR IN THE DIESEL PIPING SUMP WAS NOT CONNECTED TO THE ALARM PANEL AND DID NOT SHUTDOWN THE DIESEL TURBINE PUMP WHEN THERE WAS A LOSS OF VACUUM IN THE LINE. OBTAIN AN AS BUILT PERMIT FROM THIS DEPARTMENT FOR THE REPAIR WORK PERFORMED ON THIS DATE WITHIN 7 DAYS; FAILURE TO COMPLY MAY RESULT IN THE RED TAG OF THIS UST.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

EMJ INVESTMENT INC (Continued) **S108985819**

Site ID: 38173
Site Name: chino chevron
Violation Date: 10-23-2013
Citation: HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary containment.
Violation Notes: Returned to compliance on 10/23/2013. UDC 3/4 BRINE SENSOR (304) WAS CLOGGED UP; THE SENSOR PASSED TESTING AFTER THE TECHNICIAN CLEANED THE DEVICE.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 06-02-2015
Citation: HSC 6.7 25284 - California Health and Safety Code, Chapter 6.7, Section(s) 25284
Violation Description: Failure to obtain and maintain a valid operation permit from the CUPA.
Violation Notes: Returned to compliance on 08/06/2015. FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR REQUIRED PERMITS AND COMPLETING CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) WEBSITE BUSINESS PLAN AND UST DOCUMENTATION AND INFORMATION PAGES. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN IMMEDIATE RED TAG AND FURTHER ACTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 10-23-2013
Citation: HSC 6.7 25292.1(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25292.1(a)
Violation Description: Failure to operate the UST system to prevent spills and/or overfills.
Violation Notes: Returned to compliance on 10/23/2014. PRODUCT LINE VACUUM SENSOR IN THE DIESEL PIPING SUMP WAS NOT CONNECTED TO THE ALARM PANEL AND DID NOT SHUTDOWN THE DIESEL TURBINE PUMP WHEN THERE WAS A LOSS OF VACUUM IN THE LINE. OBTAIN AN AS BUILT PERMIT FROM THIS DEPARTMENT FOR THE REPAIR WORK PERFORMED ON THIS DATE WITHIN 7 DAYS; FAILURE TO COMPLY MAY RESULT IN THE RED TAG OF THIS UST.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-03-2014
Citation: HSC 6.7 25290.1(h), 25290.2(g), 25291(f), 25292(e) - California Health and Safety Code, Chapter 6.7, Section(s) 25290.1(h), 25290.2(g), 25291(f), 25292(e)
Violation Description: Failure to install line leak detector.

EMJ INVESTMENT INC (Continued) **S108985819**

Violation Notes:	Returned to compliance on 11/03/2014. OBSERVATION: THE PLLD(ELECTRONIC LINE LEAK DETECTOR) FAILED WHEN TESTED. COMPLIANCE MET ON SITE: TECHNICIAN REPLACED SIPHON JET IN THE DIESEL'S TURBINE. PLLD WAS RE-TESTED- PASSED.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-03-2015
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description:	Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes:	Returned to compliance on 05/26/2016. CERTIFICATE OF FINANCIAL RESPONSIBILITY (CFR), OWNER OPERATOR STATEMENT AND UST EMERGENCY RESPONSE PLAN WERE NOT AVAILABLE FOR REVIEW ON CERS. INVENTORY WAS MISSING HAZARDOUS WASTE. UPDATE CERS CHEMICAL QUANTITIES FOR FUEL UST CAPACITIES. QUANTITIES DIFFER ON VEEDER ROOT AND FILE HISTORY. ADD EPA ID NUMBER TO CERS. COMPLIANCE REQUIREMENT: SUBMIT REQUIRED DOCUMENTS TO CERS WEBSITE. CERS MUST BE REVIEWED ANNUALLY. SUBMIT SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS. 4/8/16 CALLED FACILITY REGARDING OUTSTANDING VIOLATIONS. WAS INFORMED FACILITY IS UNDER NEW MANAGEMENT AND EMAIL ADDRESS HAS CHANGED. SENT NEW MANAGER INSPECTION REPORT COPY. 5/26/16 FACILITY REINSPECTED. CERS SUBMITTAL AVAILABLE AND REVIEWED. VIOLATIONS CORRECTED. PSAAVEDRA 5/26/16 EMAIL SENT REGARDING DO STMT. PSAAVEDRA.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	10-23-2013
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 08/06/2015. AREA, SITE, AND FACILITY MAPS HAVE NOT BEEN SUBMITTED AND ARE NOT PRESENT IN THE BUSINESS PLAN COPY AT THE SITE. NOTE: THE FACILITY IS NOT DISCLOSING ANY HAZARDOUS WASTE ON THE BUSINESS PLAN HAZARDOUS MATERIAL INVENTORY.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	10-23-2013
Citation:	HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description:	Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary

EMJ INVESTMENT INC (Continued) **S108985819**

containment.
Violation Notes: Returned to compliance on 11/03/2014. BRINE SENSOR FILL TUBES IN TWO UDC'S LACKED SEAL COVERS; INSTALL SEAL COVERS ON THESE BRINE FILL TUBES.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 10-23-2013
Citation: HSC 6.7 29291(b) - California Health and Safety Code, Chapter 6.7, Section(s) 29291(b)
Violation Description: Failure of the UST system to be designed and constructed with a monitoring system capable of detecting the entry of the hazardous substance stored in the primary containment into the secondary containment.
Violation Notes: Returned to compliance on 08/06/2015. PRODUCT LINE VACUUM SENSOR IN THE DIESEL PIPING SUMP WAS NOT CONNECTED TO THE ALARM PANEL AND DID NOT SHUTDOWN THE DIESEL TURBINE PUMP WHEN THERE WAS A LOSS OF VACUUM IN THE LINE. OBTAIN AN AS BUILT PERMIT FROM THIS DEPARTMENT FOR THE REPAIR WORK PERFORMED ON THIS DATE WITHIN 7 DAYS; FAILURE TO COMPLY MAY RESULT IN THE RED TAG OF THIS UST.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 07-23-2015
Citation: Un-Specified
Violation Description: UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes: Returned to compliance on 08/06/2015. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR REQUIRED PERMITS AND COMPLETING CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) WEBSITE BUSINESS PLAN AND UST DOCUMENTATION AND INFORMATION PAGES. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN IMMEDIATE RED TAG AND FURTHER ACTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 10-23-2013
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Returned to compliance on 08/06/2015.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP

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Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-26-2018
Citation: 23 CCR 16 2712(b)(2) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(b)(2)
Violation Description: Failure to maintain monitoring records for release detection and/or maintain records of appropriate follow-up actions.
Violation Notes: Returned to compliance on 12/10/2018. There was a fuel alarm for the L20 sensor in Dispensor 13/14 on 3/09/18. The D.O. report did not address this alarm but did address other alarms. Submit documentation to this office to address what actions were taken to correct the alarm on 3/09/18. Submit the documentation along with a signed Certificate of Compliance within 30 days.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-21-2016
Citation: HSC 6.75 25299.30-25299.34 - California Health and Safety Code, Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 01/13/2017. COMPLIANCE ACTIVITY: VERIFIED CERS SUBMITTED WITH CORRECTIONS. TC OBSERVATION: CERS data inaccurate COMPLIANCE: Within 30 days correct following: Financial Responsibility Section: Update CERs to Indicate "Yes" for State Fund and CFO Letter.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-21-2019
Citation: 23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description: Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes: Returned to compliance on 11/21/2019. OBSERVATION: 1) At the time of inspection, the 91-high liquid sensor for the secondary vapor line was not going into alarm when tested. 2) Before the technician started testing the system, the Veeder Root displayed an L8 alarm. In order to clear the alarm, the technician added approximately 1 gallon of brine to the 91 Fill Sump (T2), re-tested the sensor and monitored the level of brine. CORRECTIVE ACTION: 1) The technician replaced the 91-high liquid sensor for the secondary vapor line, re-tested and passed. Violation abated/corrected on site. 2) The technician notified the on-site manager that he added brine to the 91 Fill Sump at the beginning of the inspection and cautioned her that there may or may not be an L8 alarm within the next two days. NOTE: The exterior and internal penetrations for the 91 turbine sump were replaced under permit due to a brine leak.
Violation Division: San Bernardino County Fire Department
Violation Program: UST

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Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-21-2019
Citation:	23 CCR 16 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(h)
Violation Description:	Failure to have an approved UST Monitoring Plan.
Violation Notes:	Returned to compliance on 11/25/2019. OBSERVATION: The following updates/changes are needed on CERS. See corrective action below: CORRECTIVE ACTION: Under the UST Monitoring Plan section, under Periodic System Testing, say G YESG to Spill Bucket testing for all 3 tanks.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-03-2015
Citation:	23 CCR 16 2715 - California Code of Regulations, Title 23, Chapter 16, Section(s) 2715
Violation Description:	Failure to comply with one or more of the designated operator monthly inspection requirements: failed to inspect the monthly alarm history report; attach a copy of the alarm history; failed to inspect for the presence of liquid or debris in the spill container/spill bucket and under dispenser containment; failed to inspect the under dispenser containment to ensure that monitoring equipment is placed in the proper position; failure to inspect for liquid or debris in the containment sump where an alarm occurred or for which there is no record of a service visit; or failure to check that all testing and maintenance has been completed and documented.
Violation Notes:	Returned to compliance on 05/26/2016. OBSERVED DO REPORTS MISSING FROM JANUARY THROUGH JULY 2015. DO REPORT DID NOT LIST CAUSE AND CORRECTIVE ACTION FOR LISTED ALARMS IN JULY 2015. COMPLIANCE REQUIREMENT: SUBMIT COPIES OF MISSING DO REPORTS FOR TIME SPECIFIED. INCLUDE CAUSE AND CORRECTIVE ACTION FOR ALL ALARMS LISTED FOR TIME SPECIFIED. SUBMIT SIGNED CERTIFICATE OF COMPLIANCE WITH REQUIRED DOCUMENTATION WITHIN 30 DAYS. 5/26/16 STATEMENT PROVIDED INDICATING THAT FACILITY WILL MAINTAIN DO AND WILL COMPLETE REQUIRED MONTHLY INSPECTIONS AND WILL PROPERLY ADDRESS LIQUID ALARMS. PSAAVEDRA 4/8/16 CALLED FACILITY REGARDING OUTSTANDING VIOLATIONS. WAS INFORMED FACILITY IS UNDER NEW MANAGEMENT AND EMAIL ADDRESS HAS CHANGED. SENT NEW MANAGER INSPECTION REPORT COPY. 5/26/16 FACILITY REINSPECTED. CERS SUBMITTAL AVAILABLE AND REVIEWED. VIOLATIONS CORRECTED. PSAAVEDRA 5/26/16 EMAIL SENT REGARDING DO STMT. PSAAVEDRA.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	06-02-2015
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.

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Violation Notes:	Returned to compliance on 08/06/2015. FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR NEW PERMITS. FACILITY DID NOT COMPLETE CERS SUBMITTAL. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 7 (SEVEN) DAYS. FAILURE TO COMPLY WILL RESULT IN FURTHER ACTION INCLUDING RED TAG OF UST'S.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-21-2016
Citation:	HSC 6.7 Multiple - California Health and Safety Code, Chapter 6.7, Section(s) Multiple
Violation Description:	UST Program - Administration/Documentation - General - Must include violation description, proper statute and regulation citation in the "comment" section.
Violation Notes:	Returned to compliance on 11/29/2016. Failure to obtain a UST construction permit and plan approval (CHSC 25270.4.5(a)) Failure to obtain a UST construction permit and plan approval (SBCC 23.0603(a)) COMPLIANCE ACTIVITY DURING PLAN CHECK ON 12/10/16: FACILITY SUBMITTED AS-BUILT PLANS ON 11/29/16 AND PAID A DOUBLE-PERMIT FEE AS REQUIRED BY INSPECTOR CONGDON. MONITORING SYSTEM CERTIFICATION WAS WITNESSED BY INSPECTOR CONGDON ON 11/21/16. FINAL INSPECTION IS NOT REQUIRED. JMAY OBSERVATION: A system setup data warning occurred Dec 26, 2015. The January 4, 2016 DO report indicates a cold start occurred. Permit is required for all cold starts. No record of permit or witnessed retest. COMPLIANCE: Facility is required to pay double permit fees for failure to notify and obtain permit. Within 30 days, pay fee to correct violation.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	06-02-2015
Citation:	HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description:	Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes:	Returned to compliance on 08/06/2015. FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR REQUIRED PERMITS AND COMPLETING CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) WEBSITE BUSINESS PLAN AND UST DOCUMENTATION AND INFORMATION PAGES. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN IMMEDIATE RED TAG AND FURTHER ACTION.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron

EMJ INVESTMENT INC (Continued) **S108985819**

Violation Date:	11-03-2014
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 08/06/2015. Failure to submit a signed Designated UST Operator Statement (23 CCR 2715(a)) OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED UST DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) COMPLIANCE REQUIREMENT: SUBMIT UST DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-19-2020
Citation:	23 CCR 16 2641(j) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2641(j)
Violation Description:	Failure of the leak detection equipment to be installed, calibrated, operated, and/or maintained properly.
Violation Notes:	Returned to compliance on 11/19/2020. OBSERVATION: Owner/Operator did not properly install, calibrate, operate and/or maintain leak detection equipment. VR208 in UDC 7/8 and 91 fill sump failed to shut down turbine and alarm at the veeder root monitor. Technician replaced sensors, like for like, during the inspection and retested. CORRECTIVE ACTION: Properly install, calibrate, operate and/or maintain leak detection equipment.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	06-02-2015
Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 08/06/2015. Failure to submit change of ownership within 30 days from the date of the transfer of the UST (CHSC 25284(c)) FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR NEW PERMITS. FACILITY DID NOT COMPLETE CERS SUBMITTAL. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 7 (SEVEN) DAYS. FAILURE TO COMPLY WILL RESULT IN FURTHER ACTION INCLUDING RED TAG OF UST'S.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-03-2014
Citation:	HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)

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Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 08/06/2015. OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED BUSINESS PLAN DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) COMPLIANCE REQUIREMENT: SUBMIT THE REQUIRED BUSINESS PLAN DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-03-2015
Citation: HSC 6.5 Multiple - California Health and Safety Code, Chapter 6.5, Section(s) Multiple
Violation Description: Haz Waste Generator Program - Administration/Documentation - General
Violation Notes: Returned to compliance on 05/26/2016. Failure to obtain an EPA ID Number (CCR 66262.12(a)) NO EPA ID NUMBER WAS OBSERVED ON CERS WEBSITE. COMPLIANCE REQUIREMENT: UPDATE CERS TO REFLECT EPA ID NUMBER (ADD TO BUSINESS ACTIVITIES SECTION). IF FACILITY DOES NOT HAVE EPA ID NUMBER, USE APPLICATION PROVIDED TO OBTAIN EPA ID NUMBER. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS. 4/8/16 CALLED FACILITY REGARDING OUTSTANDING VIOLATIONS. WAS INFORMED FACILITY IS UNDER NEW MANAGEMENT AND EMAIL ADDRESS HAS CHANGED. SENT NEW MANAGER INSPECTION REPORT COPY. 5/26/16 FACILITY REINSPECTED. CERS SUBMITTAL AVAILABLE AND REVIEWED. VIOLATIONS CORRECTED. PSAAVEDRA 5/26/16 EMAIL SENT REGARDING DO STMT. PSAAVEDRA.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-03-2014
Citation: HSC 6.7 25299 - California Health and Safety Code, Chapter 6.7, Section(s) 25299
Violation Description: Failure to comply with one or more of the operating permit conditions.
Violation Notes: Returned to compliance on 11/03/2014. OBSERVATION: (1) The VR 304-Brine sensor, located in the Vent Box failed when tested. (2) The VR-304- Brine sensor, located in the DieselG s Turbine Sump failed when tested. It was observed that the retaining clip on the sensor was pushed up against the float, preventing the sensor from functioning. (3) The Diesel PLLD (Electrical Line Leak Detector) failed when tested. COMPLIANCE MET ON SITE: (1) Technician replaced and tested replacement sensor. (2) Technician removed and placed the clip in the correct position. VR- 304 sensor was re-tested. (3) Technician replaced the siphon jet located in the Diesel turbine and re-tested.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 06-02-2015

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Citation:	Un-Specified
Violation Description:	UST Program - Administration/Documentation - For use of Local Ordinance only
Violation Notes:	Returned to compliance on 08/06/2015. Failure to submit change of ownership within 30 days from the date of the transfer of the UST (CHSC 25284(c)) FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR REQUIRED PERMITS AND COMPLETING CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) WEBSITE BUSINESS PLAN AND UST DOCUMENTATION AND INFORMATION PAGES. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN IMMEDIATE RED TAG AND FURTHER ACTION.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	11-21-2019
Citation:	HSC 6.7 25284, 25286 - California Health and Safety Code, Chapter 6.7, Section(s) 25284, 25286
Violation Description:	Failure to submit a complete and accurate application for a permit to operate a UST, or for renewal of the permit.
Violation Notes:	Returned to compliance on 11/25/2019. OBSERVATION: The following changes/updates are needed on CERS. See corrective action below: CORRECTIVE ACTION: 1) Under the UST Tank Information section, under Corrosion Protection, say G YESG to Isolation for all 3 tanks. 2) Provide the updated Designated Operator Identification form and Statement of Understanding form
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	07-23-2015
Citation:	23 CCR 16 2712(i) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i)
Violation Description:	Failure to submit, obtain approval, or maintain a complete/accurate response plan.
Violation Notes:	Returned to compliance on 08/06/2015. FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR REQUIRED PERMITS AND COMPLETING CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) WEBSITE BUSINESS PLAN AND UST DOCUMENTATION AND INFORMATION PAGES. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN IMMEDIATE RED TAG AND FURTHER ACTION.
Violation Division:	San Bernardino County Fire Department
Violation Program:	UST
Violation Source:	CERS
Site ID:	38173
Site Name:	chino chevron
Violation Date:	07-23-2015
Citation:	HSC 6.75 25299.30-25299.34 - California Health and Safety Code,

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Chapter 6.75, Section(s) 25299.30-25299.34
Violation Description: Failure to submit and maintain complete and current Certification of Financial Responsibility or other mechanism of financial assurance.
Violation Notes: Returned to compliance on 08/06/2015. FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR REQUIRED PERMITS AND COMPLETING CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) WEBSITE BUSINESS PLAN AND UST DOCUMENTATION AND INFORMATION PAGES. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN IMMEDIATE RED TAG AND FURTHER ACTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 07-23-2015
Citation: HSC 6.7 25284(a)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)
Violation Description: Failure to submit, maintain, or implement an owner/operator written agreement.
Violation Notes: Returned to compliance on 08/06/2015. FACILITY HAD CHANGE OF OWNERSHIP IN JANUARY 2015 WITHOUT APPLYING FOR REQUIRED PERMITS AND COMPLETING CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) WEBSITE BUSINESS PLAN AND UST DOCUMENTATION AND INFORMATION PAGES. COMPLIANCE REQUIREMENT: IMMEDIATELY COMPLETE CERS SUBMITTAL AND SUBMIT REQUIRED FEES FOR CUPA PERMITS UPON RECEIPT OF INVOICE. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE IMMEDIATELY. FAILURE TO COMPLY WILL RESULT IN IMMEDIATE RED TAG AND FURTHER ACTION.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-03-2014
Citation: HSC 6.7 25286(a) - California Health and Safety Code, Chapter 6.7, Section(s) 25286(a)
Violation Description: Failure to submit an complete and accurate application for a permit to operate an underground storage tank, or for renewal of the permit.
Violation Notes: Returned to compliance on 08/06/2015. OBSERVATION: FACILITY HAS NOT SUBMITTED THE REQUIRED UST DOCUMENTATION TO THE CALIFORNIA ENVIRONMENTAL REPORTING SYSTEM (CERS) COMPLIANCE REQUIREMENT: SUBMIT UST DOCUMENTATION TO CERS WITHIN 30 DAYS. SIGN DATE AND SUBMIT THE CERTIFICATE OF COMPLIANCE TO THIS DEPARTMENT INDICATING THE DATE OF CERS SUBMITTAL.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-21-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a site map with all

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required content.

Violation Notes: Returned to compliance on 12/11/2017. FACILITY MADE CORRECTIONS TO CERS SUBMITTAL 12/11/17, CLOSE OUT VIOLATION PER P. SAAVEDRA OBSERVED HAZARDOUS MATERIALS INVENTORY SITE MAP MISSING STORM DRAIN LOCATIONS, HAZARDOUS WASTE STORAGE LOCATION AND EVACUATION STAGING AREA. COMPLIANCE REQUIREMENT: UPDATE SITE MAP TO REFLECT ALL REQUIRED INFORMATION. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-03-2015
Citation: HSC 6.5 Multiple Sections - California Health and Safety Code, Chapter 6.5, Section(s) Multiple Sections
Violation Description: Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes: Returned to compliance on 11/03/2015. Failure to complete hazardous waste labels (CCR 66262.34(f)(3)) HAZARDOUS WASTE LABEL ON DRUM WAS OBSERVED FADED AND UNREADIBLE. COMPLIANCE REQUIREMENT: LABEL WAS PROVIDED DURING INSPECTION. VIOLATION CORRECTED.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-03-2015
Citation: HSC 6.7 25284(a)(3) - California Health and Safety Code, Chapter 6.7, Section(s) 25284(a)(3)
Violation Description: Failure to submit, maintain, or implement an owner/operator written agreement.
Violation Notes: Returned to compliance on 05/26/2016. CERTIFICATE OF FINANCIAL RESPONSIBILITY (CFR), OWNER OPERATOR STATEMENT AND UST EMERGENCY RESPONSE PLAN WERE NOT AVAILABLE FOR REVIEW ON CERS. INVENTORY WAS MISSING HAZARDOUS WASTE. UPDATE CERS CHEMICAL QUANTITIES FOR FUEL UST CAPACITIES. QUANTITIES DIFFER ON VEEDER ROOT AND FILE HISTORY. ADD EPA ID NUMBER TO CERS. COMPLIANCE REQUIREMENT: SUBMIT REQUIRED DOCUMENTS TO CERS WEBSITE. CERS MUST BE REVIEWED ANNUALLY. SUBMIT SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS. 4/8/16 CALLED FACILITY REGARDING OUTSTANDING VIOLATIONS. WAS INFORMED FACILITY IS UNDER NEW MANAGEMENT AND EMAIL ADDRESS HAS CHANGED. SENT NEW MANAGER INSPECTION REPORT COPY. 5/26/16 FACILITY REINSPECTED. CERS SUBMITTAL AVAILABLE AND REVIEWED. VIOLATIONS CORRECTED. PSAAVEDRA 5/26/16 EMAIL SENT REGARDING DO STMT. PSAAVEDRA.
Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Site ID: 38173
Site Name: chino chevron
Violation Date: 11-21-2017
Citation: 23 CCR 16 2712(i), 2632(d)(2), 2634(e), 2641(h) - California Code of Regulations, Title 23, Chapter 16, Section(s) 2712(i), 2632(d)(2), 2634(e), 2641(h)
Violation Description: Failure to submit a current UST Response Plan available on site.
Violation Notes: Returned to compliance on 12/11/2017. OBSERVED UST SITE PLAN

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INCOMPLETE, MISSING UST PIPING LAYOUT AND SENSOR LOCATIONS. COMPLIANCE REQUIREMENT: UPDATE CERS UST SITE MAP TO REFLECT ALL REQUIRED INFORMATION. SUBMIT A SIGNED CERTIFICATE OF COMPLIANCE WITHIN 30 DAYS.

Violation Division: San Bernardino County Fire Department
Violation Program: UST
Violation Source: CERS

Evaluation:

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: WASTE INCIDENTAL TO UST ONLY INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: HAZMAT HANDLER
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: WASTE INCIDENTAL UST OPERATION ONLY
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-19-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: MONT CERT.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Other/Unknown
Eval Date: 11-20-2019
Violations Found: No
Eval Type: Other, not routine, done by local agency
Eval Notes: On-site to conduct a Final Plan Check Inspection for repairs made to the 91 turbine sump due to brine leak.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-21-2016
Violations Found: Yes

EMJ INVESTMENT INC (Continued) **S108985819**

Eval Type:	Routine done by local agency
Eval Notes:	UST Inspection Chino Chevron with ride along Karen Vu EHS - 9 hour day
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-21-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ANNUAL UST INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-21-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	HAZMAT HANDLER INSPECTION UST ONLY
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-21-2019
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	On-site to conduct an Annual Underground Storage Tank (UST) inspection. Inspection was conducted during the annual monitoring certification testing.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-26-2018
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	Routine inspection with paperwork review and inspection of sumps and UDC's.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	12-03-2019
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	On-site to conduct a Final Plan Check Inspection for repairs made to the 91 turbine sump.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	01-09-2014

EMJ INVESTMENT INC (Continued) **S108985819**

Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST FINAL INSPECTION LOG #110513-02
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	05-26-2016
Violations Found:	No
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST REINSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	06-02-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST REINSPECTION AND 7 DAY NOV.
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Other/Unknown
Eval Date:	07-23-2015
Violations Found:	Yes
Eval Type:	Other, not routine, done by local agency
Eval Notes:	UST REINSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	UST
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-23-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	REGULAR INSPECTION.
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-23-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	REGULAR INSPECTION.
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	10-23-2013
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	UST ANNUAL INSPECTION WAS CONDUCTED DURING THE ANNUAL MONITORING

EMJ INVESTMENT INC (Continued) **S108985819**

CERTIFICATION.
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INLAND VALLEY FUEL- UST INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2014
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INLAND VALLEY FUEL- UST MONITORING CERTIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: ANNUAL MONITORING CERTIFICATION
Eval Division: San Bernardino County Fire Department
Eval Program: UST
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-03-2015
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HAZARDOUS MATERIAL HANDLER UST ONLY INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 06-02-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 38173
Site Name: chino chevron

EMJ INVESTMENT INC (Continued) **S108985819**

Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 07-23-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 10-23-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 10-23-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 10-23-2013
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 11-03-2014
Enf Action Type: Notice of Violation (Unified Program)

EMJ INVESTMENT INC (Continued) **S108985819**

Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 11-03-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 11-03-2015
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

EMJ INVESTMENT INC (Continued) **S108985819**

Site ID: 38173
Site Name: chino chevron
Site Address: 14088 EUCLID AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 11-21-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: UST
Enf Action Source: CERS

Coordinates:
Site ID: 38173
Facility Name: chino chevron
Env Int Type Code: HWG
Program ID: 10051936
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 33.997959
Longitude: -117.651413

Affiliation:
Affiliation Type Desc: UST Property Owner Name
Entity Name: MAHER SEDRAK
Entity Title: Not reported
Affiliation Address: 311 E Main Street
Affiliation City: El Cajon
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 92020
Affiliation Phone: (619) 244-8412

Affiliation Type Desc: Document Preparer
Entity Name: HELMY ATTIA
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: HELMY ATTIA
Entity Title: MANAGER
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: UST Tank Owner
Entity Name: Maher Sadrak

EMJ INVESTMENT INC (Continued) **S108985819**

Entity Title:	Not reported
Affiliation Address:	311 E Main Street
Affiliation City:	El Cajon
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92020
Affiliation Phone:	(619) 244-8412
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14088 EUCLID AVE
Affiliation City:	CHINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	MAHER SEDRAK
Entity Title:	Not reported
Affiliation Address:	311 E. MAIN ST.
Affiliation City:	EL-CAJON
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92020
Affiliation Phone:	(619) 202-6993
Affiliation Type Desc:	UST Tank Operator
Entity Name:	MAHER SEDRAK
Entity Title:	Not reported
Affiliation Address:	311 E Main Street Street
Affiliation City:	El Cajon
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92020
Affiliation Phone:	(619) 244-8412
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Environmental Contact
Entity Name:	HELMY ATTIA
Entity Title:	Not reported
Affiliation Address:	14088 EUCLID AVE
Affiliation City:	CHINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported

EMJ INVESTMENT INC (Continued) **S108985819**

Affiliation Type Desc:	Operator
Entity Name:	EMJ INVESTMENT
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 464-1600

Affiliation Type Desc:	Parent Corporation
Entity Name:	EMJ INVESTMENT
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	UST Permit Applicant
Entity Name:	Helmy Attia
Entity Title:	Manger
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(310) 721-9662

HWTS:

Name:	EMJ INVESTMENT INC
Address:	14088 EUCLID AVE
Address 2:	Not reported
City,State,Zip:	CHINO, CA 91710
EPA ID:	CAL000416111
Inactive Date:	Not reported
Create Date:	04/11/2016
Last Act Date:	01/28/2021
Mailing Name:	Not reported
Mailing Address:	14088 EUCLID AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHINO, CA 91710
Owner Name:	EMJ INVESTMENT INC
Owner Address:	14088 EUCLID AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	CHINO, CA 91710
Contact Name:	MAHER SEDRAK
Contact Address:	14088 EUCLID AVE
Contact Address 2:	Not reported
City,State,Zip:	CHINO, CA 91710

NAICS:

EPA ID:	CAL000416111
Create Date:	2016-04-11 10:03:05.370
NAICS Code:	44719

EMJ INVESTMENT INC (Continued) **S108985819**

NAICS Description:	Other Gasoline Stations
Issued EPA ID Date:	2016-04-11 10:03:05.32700
Inactive Date:	Not reported
Facility Name:	EMJ INVESTMENT INC
Facility Address:	14088 EUCLID AVE
Facility Address 2:	Not reported
Facility City:	CHINO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91710

26
West
< 1/8
0.057 mi.
302 ft.

CARL'S JR #458
7069 SCHAEFER
CHINO, CA 91710

San Bern. Co. Permit **S109598478**
N/A

Relative:
Lower

Actual:
715 ft.

San Bern. Co. Permit:

Name:	CARL'S JR #458
Address:	7069 SCHAEFER
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0012449
Owner:	CKE RESTAURANTS INC
Permit Number:	PT0021810
Permit Category:	BULK CO2 AT RETAIL FOOD FACILITIES
Facility Status:	INACTIVE
Expiration Date:	05/31/2010

F27
SSW
< 1/8
0.060 mi.
316 ft.

DORA PICKERING
14080 EUCLID AVE
CHINO, CA 91708

Site 9 of 9 in cluster F

HIST UST **U001568835**
N/A

Relative:
Lower

Actual:
690 ft.

HIST UST:

Name:	DORA PICKERING
Address:	14080 EUCLID AVE
City,State,Zip:	CHINO, CA 917080744
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000059791
Facility Type:	Other
Other Type:	PRIVATE
Contact Name:	DORA PICKERING
Telephone:	7140000000
Owner Name:	PICKERING, DORA M.
Owner Address:	P.O. BOX 744
Owner City,St,Zip:	CHINO, CA 917080744
Total Tanks:	0002
Tank Num:	001
Container Num:	2
Year Installed:	1970

DORA PICKERING (Continued) **U001568835**

Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	#1
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

G28 **E.P. DAIRY REPAIR AND MAINTENANCE** **San Bern. Co. Permit** **S108536432**
ENE **7316 SCHAEFER** **N/A**
< 1/8 **ONTARIO, CA 91761**
0.061 mi.
321 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
725 ft.

San Bern. Co. Permit:

Name:	E.P. DAIRY REPAIR AND MAINTENANCE
Address:	7316 SCHAEFER
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0010934
Owner:	E.P. DAIRY REPAIR AND MNTNCE
Permit Number:	PT0018857
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	11/30/2013

Name:	COSTA, CANDIDO
Address:	7316 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000394
Owner:	COSTA, CANDIDO
Permit Number:	PT0008912
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	04/30/1997

Name:	COSTA, CANDIDO
Address:	7316 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000394
Owner:	COSTA, CANDIDO
Permit Number:	PT0008913
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	04/30/1997

H29 **EUCLID PUMP STATION** **HIST UST** **U001568900**
South **7152 EUCLID AVE** **N/A**
< 1/8 **CHINO, CA 91770**
0.063 mi.
331 ft. **Site 1 of 2 in cluster H**

Relative: **Lower**

Actual: **690 ft.**

HIST UST:

Name:	EUCLID PUMP STATION
Address:	7152 EDISON AVE
City,State,Zip:	CHINO, CA 91710
File Number:	0002A6CD
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A6CD.pdf
Region:	STATE
Facility ID:	00000022167
Facility Type:	Other
Other Type:	ELECTIC UTILITY
Contact Name:	M. A. FAVARO
Telephone:	8185721801
Owner Name:	SOUTHERN CALIFORNIA EDISON CO.
Owner Address:	2244 WALNUT GROVE AVENUE
Owner City,St,Zip:	ROSEMEAD, CA 91770
Total Tanks:	0002
Tank Num:	001
Container Num:	40
Year Installed:	1953
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	001
Container Num:	384
Year Installed:	1984
Tank Capacity:	00000200
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	2
Leak Detection:	None
Tank Num:	001
Container Num:	384
Year Installed:	1984
Tank Capacity:	00000200
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	2
Leak Detection:	None
Tank Num:	001
Container Num:	40
Year Installed:	1953
Tank Capacity:	00001000
Tank Used for:	WASTE
Type of Fuel:	WASTE OIL
Container Construction Thickness:	Not reported
Leak Detection:	None

EUCLID PUMP STATION (Continued) **U001568900**

Tank Num:	002
Container Num:	386
Year Installed:	1984
Tank Capacity:	00000200
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	2
Leak Detection:	None

Tank Num:	002
Container Num:	386
Year Installed:	1984
Tank Capacity:	00000200
Tank Used for:	PRODUCT
Type of Fuel:	Not reported
Container Construction Thickness:	2
Leak Detection:	None

Tank Num:	002
Container Num:	41
Year Installed:	1963
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Tank Num:	002
Container Num:	41
Year Installed:	1963
Tank Capacity:	00012000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor

Click here for Geo Tracker PDF:

H30 **MARS MARKET** **LUST** **S101618797**
SSW **14107 S EUCLID AVE** **SWEEPS UST** **N/A**
< 1/8 **CHINO, CA 91710** **HIST UST**
0.073 mi. **CA FID UST**
388 ft. **Site 2 of 2 in cluster H** **Cortese**
CERS

Relative:
Lower

Actual:
689 ft.

LUST:

Name:	MAR'S MARKET
Address:	14107 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100451
Global Id:	T0607100451
Latitude:	33.997192
Longitude:	-117.649922
Status:	Completed - Case Closed
Status Date:	04/08/1999
Case Worker:	JC

MARS MARKET (Continued) **S101618797**

RB Case Number: 083603029T
Local Agency: SAN BERNARDINO COUNTY
File Location: Local Agency
Local Case Number: 97047
Potential Media Affect: Soil
Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100451
Contact Type: Regional Board Caseworker
Contact Name: CARL BERNHARDT
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: carl.bernhardt@waterboards.ca.gov
Phone Number: 9517824495

Global Id: T0607100451
Contact Type: Local Agency Caseworker
Contact Name: JACKSON CRUTSINGER
Organization Name: SAN BERNARDINO COUNTY
Address: 620 SOUTH E STREET
City: SAN BERNARDINO
Email: jcrutsinger@sbcfire.org
Phone Number: Not reported

LUST:
Global Id: T0607100451
Action Type: Other
Date: 07/01/1997
Action: Leak Discovery

Global Id: T0607100451
Action Type: Other
Date: 07/15/1997
Action: Leak Reported

LUST:
Global Id: T0607100451
Status: Open - Case Begin Date
Status Date: 07/01/1997

Global Id: T0607100451
Status: Open - Site Assessment
Status Date: 07/01/1997

Global Id: T0607100451
Status: Completed - Case Closed
Status Date: 04/08/1999

SWEEPS UST:
Name: MARS MARKET
Address: 14107 S EUCLID AVE
City: CHINO

MARS MARKET (Continued) **S101618797**

Status: Not reported
Comp Number: 14615
Number: Not reported
Board Of Equalization: 44-020565
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-014615-000001
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 3

Name: MARS MARKET
Address: 14107 S EUCLID AVE
City: CHINO
Status: Not reported
Comp Number: 14615
Number: Not reported
Board Of Equalization: 44-020565
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-014615-000002
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: MARS MARKET
Address: 14107 S EUCLID AVE
City: CHINO
Status: Not reported
Comp Number: 14615
Number: Not reported
Board Of Equalization: 44-020565
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-014615-000003
Tank Status: Not reported
Capacity: 1000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: LEADED
Number Of Tanks: Not reported

MARS MARKET (Continued) **S101618797**

HIST UST:

Name:	MARS MARKET
Address:	14107 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
File Number:	00029C1F
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029C1F.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CA FID UST:

Facility ID:	36008207
Regulated By:	UTNKI
Regulated ID:	00014615
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	14107 S EUCLID AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CHINO 91710
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

CORTESE:

Name:	MAR'S MARKET
Address:	14107 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100451
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED

MARS MARKET (Continued) **S101618797**

Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

CERS:

Name:	MAR'S MARKET
Address:	14107 S EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Site ID:	243844
CERS ID:	T0607100451
CERS Description:	Leaking Underground Storage Tank Cleanup Site

Affiliation:

Affiliation Type Desc:	Local Agency Caseworker
Entity Name:	JACKSON CRUTSINGER - SAN BERNARDINO COUNTY
Entity Title:	Not reported
Affiliation Address:	620 SOUTH E STREET
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Regional Board Caseworker
Entity Name:	CARL BERNHARDT - SANTA ANA RWQCB (REGION 8)
Entity Title:	Not reported
Affiliation Address:	3737 MAIN STREET, SUITE 500
Affiliation City:	RIVERSIDE
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	9517824495

I31 **CHARLIE TADEMA INC.** **San Bern. Co. Permit** **S112142694**
South **7145 EDISON AVE** **N/A**
< 1/8 **ONTARIO, CA 91762**
0.077 mi.
405 ft. **Site 1 of 2 in cluster I**

Relative: **Lower**
Actual: **691 ft.**

San Bern. Co. Permit:

Name:	CHARLIE TADEMA INC.
Address:	7145 EDISON AVE
City,State,Zip:	ONTARIO, CA 91762
Region:	SAN BERNARDINO

CHARLIE TADEMA INC. (Continued) **S112142694**

Facility ID: FA0001863
Owner: CHARLIE TADEMA
Permit Number: PT0004395
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: INACTIVE
Expiration Date: 10/31/2019

Name: CHARLIE TADEMA INC.
Address: 7145 EDISON AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0001863
Owner: CHARLIE TADEMA
Permit Number: PT0004396
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: INACTIVE
Expiration Date: 10/31/2019

Name: CHARLIE TADEMA INC.
Address: 7145 EDISON AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0001863
Owner: CHARLIE TADEMA
Permit Number: PT0010916
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 10/31/2018

Name: CHARLIE TADEMA INC.
Address: 7145 EDISON AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0001863
Owner: CHARLIE TADEMA
Permit Number: PT0025591
Permit Category: EPCRA FACILITY
Facility Status: INACTIVE
Expiration Date: 10/31/2013

I32 **CHARLIE TADEMA INC.** **UST** **U004270883**
South **7145 EDISON AVE** **N/A**
< 1/8 **ONTARIO, CA 91762**
0.077 mi.
405 ft. **Site 2 of 2 in cluster I**

Relative: UST:
Lower
Actual: Name: CHARLIE TADEMA INC.
691 ft. Address: 7145 EDISON AVE
City,State,Zip: ONTARIO, CA 91762
Facility ID: FA0001863
Permitting Agency: San Bernardino County Fire Department
Latitude: 33.997418
Longitude: -117.650076

J33 **DORA PICKERING** **HIST UST** **U001568834**
SSW **7050 EDISONA VE** **N/A**
< 1/8 **CHINO, CA 91708**
0.078 mi.
412 ft. **Site 1 of 2 in cluster J**

Relative: **Lower**
Actual: **690 ft.**

HIST UST:

Name:	DORA PICKERING
Address:	7050 EDISONA VE
City,State,Zip:	CHINO, CA 91708
File Number:	0002A424
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A424.pdf
Region:	STATE
Facility ID:	00000059790
Facility Type:	Other
Other Type:	PRIVATE
Contact Name:	DORA PICKERING
Telephone:	0000000000
Owner Name:	PICKERING, DORA M.
Owner Address:	P.O. BOX 744
Owner City,St,Zip:	CHINO, CA 917080744
Total Tanks:	0002
Tank Num:	001
Container Num:	#3
Year Installed:	Not reported
Tank Capacity:	00010000
Tank Used for:	PRODUCT
Type of Fuel:	DIESEL
Container Construction Thickness:	Not reported
Leak Detection:	None
Tank Num:	002
Container Num:	#4
Year Installed:	Not reported
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	REGULAR
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

J34 **MAR'S MARKET** **LUST** **S102285719**
SSW **14107** **HIST CORTESE** **N/A**
< 1/8 **CHINO, CA 91710**
0.091 mi.
480 ft. **Site 2 of 2 in cluster J**

Relative: **Lower**
Actual: **689 ft.**

LUST REG 8:

Name:	MAR'S MARKET
Address:	14107 EUCLID AVE
City:	CHINO
Region:	8
County:	San Bernardino
Regional Board:	Santa Ana Region
Facility Status:	Case Closed
Case Number:	083603029T
Local Case Num:	97047
Case Type:	Soil only

MAR'S MARKET (Continued) **S102285719**

Substance:	Gasoline
Qty Leaked:	Not reported
Abate Method:	Not reported
Cross Street:	Not reported
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Not reported
How Stopped:	Not reported
Leak Cause:	Not reported
Leak Source:	Not reported
Global ID:	T0607100451
How Stopped Date:	Not reported
Enter Date:	7/23/1997
Date Confirmation of Leak Began:	7/1/1997
Date Preliminary Assessment Began:	Not reported
Discover Date:	7/1/1997
Enforcement Date:	Not reported
Close Date:	4/8/1999
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	Not reported
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	7/23/1997
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.997326
Longitude:	-117.6502402
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	CAB
Staff Initials:	JC3
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

HIST CORTESE:

edr_fname:	MAR'S MARKET
edr_fadd1:	14107
City,State,Zip:	CHINO, CA 91710
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA

MAR'S MARKET (Continued) **S102285719**

Reg Id: 083603029T

G35 **STUART GLENN** **SWF/LF** **S104761795**
ENE **7345 SCHAEFER AVE** **HAZNET** **N/A**
< 1/8 **ONTARIO, CA 91762** **San Bern. Co. Permit**
0.093 mi. **HWTS**
490 ft. **Site 2 of 2 in cluster G**

Relative: Higher
Actual: 724 ft.

SWF/LF (SWIS):

Name:	HARVEST- ONTARIO A2
Address:	7345 SCHAEFER AVE.
City,State,Zip:	ONTARIO, CA 91762
Region:	STATE
Facility ID:	36-AA-0490
SWIS Number:	36-AA-0490
Point of Contact:	Megan Emslander
Is Archived:	Yes
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Planned
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Ontario
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Notification

Operator:

SWIS Number:	36-AA-0490
Site Name:	Harvest- Ontario A2
Site Operational Status:	Planned
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	34.00299
Longitude:	-117.64443
Is Archived:	Yes
Operator:	Harvest Power California, LLC
Started On:	10/23/2015
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(559) 435-1114
Street Address:	Linda Novick 6943 N. Golden State Blvd.
Operator City:	Fresno
Operator State:	CA
Operator Zip:	93722

Waste:

SWIS Number:	36-AA-0490
Site Name:	Harvest- Ontario A2
Activity:	Green Material Composting Operation

STUART GLENN (Continued) **S104761795**

Waste Type:	Green Materials
Site Is Archived:	Yes
Site Operational Status:	Planned
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	Yes
Activity Operational Status:	Planned
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

SWIS Number:	36-AA-0490
Site Name:	Harvest- Ontario A2
Activity:	Green Material Composting Operation
Waste Type:	Wood waste
Site Is Archived:	Yes
Site Operational Status:	Planned
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	Yes
Activity Operational Status:	Planned
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

Name:	HARVEST- ONTARIO A1
Address:	7345 SCHAEFER AVE.
City,State,Zip:	ONTARIO, CA 91762
Region:	STATE
Facility ID:	36-AA-0489
SWIS Number:	36-AA-0489
Point of Contact:	Megan Emslander
Is Archived:	Yes
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Planned
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Ontario
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Notification

Operator:

SWIS Number:	36-AA-0489
Site Name:	Harvest- Ontario A1
Site Operational Status:	Planned
Site Type:	Non-Disposal Only

STUART GLENN (Continued) **S104761795**

Site Regulatory Status:	Notification
Latitude:	34.00299
Longitude:	-117.64443
Is Archived:	Yes
Operator:	Harvest Power California, LLC
Started On:	10/23/2015
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(559) 435-1114
Street Address:	Linda Novick 6943 N. Golden State Blvd.
Operator City:	Fresno
Operator State:	CA
Operator Zip:	93722

Waste:

SWIS Number:	36-AA-0489
Site Name:	Harvest- Ontario A1
Activity:	Agricultural Material Composting Operation
Waste Type:	Manure
Site Is Archived:	Yes
Site Operational Status:	Planned
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	Yes
Activity Operational Status:	Planned
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

HAZNET:

Name:	STUART GLENN
Address:	7345 SCHAEFER AVE
Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917627934
Contact:	STUART GLENN
Telephone:	9517330439
Mailing Name:	Not reported
Mailing Address:	138 GITANO
Year:	2015
Gepaid:	CAC002824101
TSD EPA ID:	CAT080013352
CA Waste Code:	221 - Waste oil and mixed oil
Disposal Method:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons:	1.026

Additional Info:

Year:	2015
Gen EPA ID:	CAC002824101
Shipment Date:	20150803

STUART GLENN (Continued) **S104761795**

Creation Date:	10/5/2015 22:15:16
Receipt Date:	20150804
Manifest ID:	002670830GBF
Trans EPA ID:	CAD980814446
Trans Name:	MARK ALARCON'S WASTE OIL SERVICE
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	1.026
Waste Quantity:	270
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

San Bern. Co. Permit:

Name:	FRED THOMMEN DAIRY
Address:	7345 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000452
Owner:	THOMMEN, FRED E
Permit Number:	PT0008916
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	04/30/1997

Name:	FRED THOMMEN DAIRY
Address:	7345 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000452
Owner:	THOMMEN, FRED E
Permit Number:	PT0008917
Permit Category:	SPECIAL GENERATOR
Facility Status:	INACTIVE
Expiration Date:	04/30/1997

HWTS:

Name:	STUART GLENN
Address:	7345 SCHAEFER AVE
Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917627934
EPA ID:	CAC002824101
Inactive Date:	10/30/2015
Create Date:	07/30/2015
Last Act Date:	10/30/2015

STUART GLENN (Continued) **S104761795**

Mailing Name:	Not reported
Mailing Address:	138 GITANO
Mailing Address 2:	Not reported
Mailing City,State,Zip:	IRVINE, CA 926181115
Owner Name:	STUART GLENN
Owner Address:	138 GITANO
Owner Address 2:	Not reported
Owner City,State,Zip:	IRVINE, CA 926181115
Contact Name:	STUART GLENN
Contact Address:	138 GITANO
Contact Address 2:	Not reported
City,State,Zip:	IRVINE, CA 926181115

K36 **APOLLO WOOD RECOVERY INC** **RCRA NonGen / NLR** **1024863138**
SSE **7225 EDISON AVE** **CAL000431676**
< 1/8 **ONTARIO, CA 91762**
0.097 mi.
513 ft. **Site 1 of 2 in cluster K**

Relative: **Lower**

Actual: **694 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:	2017-10-23 00:00:00.0
Handler Name:	APOLLO WOOD RECOVERY INC
Handler Address:	7225 EDISON AVE
Handler City,State,Zip:	ONTARIO, CA 91762
EPA ID:	CAL000431676
Contact Name:	BRIAN CROWELL
Contact Address:	7225 EDISON AVE
Contact City,State,Zip:	ONTARIO, CA 91762
Contact Telephone:	951-293-3286
Contact Fax:	909-259-1535
Contact Email:	BRIAN@APOLLOWOODPRODUCTS.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 1927
Mailing City,State,Zip:	ONTARIO, CA 91762
Owner Name:	APOLLO WOOD RECOVERY INC
Owner Type:	Other
Operator Name:	BRIAN CROWELL
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes

APOLLO WOOD RECOVERY INC (Continued) **1024863138**

Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-07 19:36:53.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	APOLLO WOOD RECOVERY INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	7225 EDISON AVE
Owner/Operator City,State,Zip:	ONTARIO, CA 91762
Owner/Operator Telephone:	909-371-9510
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported

APOLLO WOOD RECOVERY INC (Continued) **1024863138**

Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: BRIAN CROWELL
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 7225 EDISON AVE
Owner/Operator City,State,Zip: ONTARIO, CA 91762
Owner/Operator Telephone: 951-293-3286
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2017-10-23 00:00:00.0
Handler Name: APOLLO WOOD RECOVERY INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 113310
NAICS Description: LOGGING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

K37 **DON VAN DAM DAIRY** **San Bern. Co. Permit** **S104761742**
SSE **7225 EDISON AVE** **N/A**
< 1/8 **ONTARIO, CA 91761**
0.097 mi.
513 ft. **Site 2 of 2 in cluster K**

Relative:
Lower

Actual:
694 ft.

San Bern. Co. Permit:
Name: DON VAN DAM DAIRY
Address: 7225 EDISON AVE
City,State,Zip: ONTARIO, CA 91761
Region: SAN BERNARDINO
Facility ID: FA0000424
Owner: VAN DAM, DON
Permit Number: PT0008935
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/1997

DON VAN DAM DAIRY (Continued) **S104761742**

Name: DON VAN DAM DAIRY
Address: 7225 EDISON AVE
City,State,Zip: ONTARIO, CA 91761
Region: SAN BERNARDINO
Facility ID: FA0000424
Owner: VAN DAM, DON
Permit Number: PT0008936
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/1997

L38 **STATER BROS. MARKETS 184** **CERS HAZ WASTE** **S109598631**
West **6989 SCHAEFER AVE** **HAZNET** **N/A**
< 1/8 **CHINO, CA 91710** **San Bern. Co. Permit**
0.115 mi. **CERS**
608 ft. **Site 1 of 2 in cluster L** **HWTS**

Relative: **Lower**
Actual: **715 ft.**

CERS HAZ WASTE:
Name: STATER BROS. MARKETS 184
Address: 6989 SCHAEFER AVE
City,State,Zip: CHINO, CA 91710
Site ID: 157022
CERS ID: 10053754
CERS Description: Hazardous Waste Generator

HAZNET:
Name: STATER BROS MARKETS #184 EUCLID SCHAEFER
Address: 6989 SCHAEFER AVE
Address 2: Not reported
City,State,Zip: CHINO, CA 924020000
Contact: CHERYL SKALICKY
Telephone: 9097335288
Mailing Name: Not reported
Mailing Address: PO BOX 150

Year: 2018
Gepaid: CAL000340385
TSD EPA ID: AZR000515924
CA Waste Code: 352 - Other organic solids
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.02500

Year: 2018
Gepaid: CAL000340385
TSD EPA ID: ARD981057870
CA Waste Code: 331 - Off-specification, aged or surplus organics
Disposal Method: H061 - Fuel Blending Prior To Energy Recovery At Another Site
Tons: 0.00100

Year: 2017
Gepaid: CAL000340385
TSD EPA ID: CAD044429835
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.0025

STATER BROS. MARKETS 184 (Continued) **S109598631**

Year: 2015
Gepaid: CAL000340385
TSD EPA ID: CAD028409019
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.005

Year: 2014
Gepaid: CAL000340385
TSD EPA ID: CAD028409019
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.005

Year: 2013
Gepaid: CAL000340385
TSD EPA ID: CAD028409019
CA Waste Code: 311 - Pharmaceutical waste
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 0.005

Additional Info:
Year: 2017
Gen EPA ID: CAL000340385

Shipment Date: 20171020
Creation Date: 6/13/2018 18:30:55
Receipt Date: 20171101
Manifest ID: 016090454JJK
Trans EPA ID: CAR000267260
Trans Name: ALPHA PETROLEUM TRANSPORT INC II DBA AEEC
Trans 2 EPA ID: CAR000265140
Trans 2 Name: MEDIWASTE D
TSDF EPA ID: CAD044429835
Trans Name: CLEAN HARBORS WILMINGTON LLC
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 311 - Pharmaceutical waste
RCRA Code: P081
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 0.0025
Waste Quantity: 5
Quantity Unit: P
Additional Code 1: P042
Additional Code 2: P001
Additional Code 3: U205
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2014

STATER BROS. MARKETS 184 (Continued) **S109598631**

Gen EPA ID:	CAL000340385
Shipment Date:	20140905
Creation Date:	11/8/2014 22:15:16
Receipt Date:	20140912
Manifest ID:	013085615JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2015
Gen EPA ID:	CAL000340385
Shipment Date:	20150923
Creation Date:	1/11/2016 22:15:53
Receipt Date:	20150925
Manifest ID:	014918628JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

STATER BROS. MARKETS 184 (Continued) **S109598631**

Additional Info:

Year:	2013
Gen EPA ID:	CAL000340385
Shipment Date:	20130920
Creation Date:	11/7/2013 22:15:06
Receipt Date:	20130927
Manifest ID:	011294355JJK
Trans EPA ID:	CAT080012800
Trans Name:	HAZ MAT TRANS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD028409019
Trans Name:	CROSBY & OVERTON
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	311 - Pharmaceutical waste
RCRA Code:	P001
Meth Code:	H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons:	0.005
Waste Quantity:	10
Quantity Unit:	P
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

San Bern. Co. Permit:

Name:	STATER BROS. MARKETS 184
Address:	6989 SCHAEFER AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0011907
Owner:	STATER BROS. MARKETS
Permit Number:	PT0023868
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	10/31/2021

Name:	STATER BROS. MARKETS 184
Address:	6989 SCHAEFER AVE
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0011907
Owner:	STATER BROS. MARKETS
Permit Number:	PT0021589
Permit Category:	HAZARDOUS MATERIALS 1-3 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	10/31/2021

CERS:

Name:	STATER BROS. MARKETS 184
Address:	6989 SCHAEFER AVE
City,State,Zip:	CHINO, CA 91710

STATER BROS. MARKETS 184 (Continued) **S109598631**

Site ID: 157022
CERS ID: 10053754
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 157022
Site Name: Stater Bros. Markets 184
Violation Date: 04-24-2014
Citation: HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description: Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes: Not reported
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-02-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-02-2020
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: STATERS INPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-24-2014

STATER BROS. MARKETS 184 (Continued) **S109598631**

Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: STATERS INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 09-07-2017
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 157022
Site Name: Stater Bros. Markets 184
Site Address: 6989 SCHAEFER AVE
Site City: CHINO
Site Zip: 91710
Enf Action Date: 04-24-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Coordinates:
Site ID: 157022
Facility Name: Stater Bros. Markets 184
Env Int Type Code: HWG
Program ID: 10053754
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 34.003654
Longitude: -117.652397

Affiliation:
Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Operator
Entity Name: Stater Bros. Markets 184
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported

STATER BROS. MARKETS 184 (Continued) **S109598631**

Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 733-5000
Affiliation Type Desc:	Property Owner
Entity Name:	Stater Bros. Markets
Entity Title:	Not reported
Affiliation Address:	P.O. Box 150
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92402
Affiliation Phone:	(909) 733-5000
Affiliation Type Desc:	Environmental Contact
Entity Name:	Chris Ramirez
Entity Title:	Not reported
Affiliation Address:	P.O. Box 150
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92402
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Chris Ramirez
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	Stater Bros. Markets
Entity Title:	Not reported
Affiliation Address:	PO BOX 150
Affiliation City:	SAN BERNARDINO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	92402
Affiliation Phone:	(909) 733-5000
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	6989 Schaefer Ave
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported
Affiliation Type Desc:	Identification Signer
Entity Name:	Chris Ramirez

STATER BROS. MARKETS 184 (Continued) **S109598631**

Entity Title:	Supervisor of Support Services
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	Stater Bros. Markets
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

HWTS:

Name:	STATER BROS MARKETS #184 EUCLID SCHAEFER
Address:	6989 SCHAEFER AVE
Address 2:	Not reported
City,State,Zip:	CHINO, CA 91710
EPA ID:	CAL000340385
Inactive Date:	Not reported
Create Date:	02/04/2009
Last Act Date:	09/17/2020
Mailing Name:	Not reported
Mailing Address:	PO BOX 150
Mailing Address 2:	Not reported
Mailing City,State,Zip:	SAN BERNARDINO, CA 924020000
Owner Name:	STATER BROS MARKETS
Owner Address:	301 S TIPPECANOE AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	SAN BERNARDINO, CA 924080121
Contact Name:	JAMIE JACOBSON
Contact Address:	301 S. TIPPECANOE AVE.
Contact Address 2:	Not reported
City,State,Zip:	SAN BERNARDINO, CA 92408

NAICS:

EPA ID:	CAL000340385
Create Date:	2009-02-04 15:38:59.000
NAICS Code:	45291
NAICS Description:	Warehouse Clubs and Superstores
Issued EPA ID Date:	2009-02-04 15:38:58.97000
Inactive Date:	Not reported
Facility Name:	STATER BROS MARKETS #184 EUCLID SCHAEFER
Facility Address:	6989 SCHAEFER AVE
Facility Address 2:	Not reported
Facility City:	CHINO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91710

L39
West
< 1/8
0.115 mi.
608 ft.

STATER BROS MARKETS #184 EUCLID SCHAEFER
6989 SCHAEFER AVE
CHINO, CA 91710

Site 2 of 2 in cluster L

RCRA-LQG | **1016954534** / **CAL000340385**

Relative:
Lower

Actual:
715 ft.

RCRA-LQG:

Date Form Received by Agency:	2014-03-01 00:00:00.0
Handler Name:	STATER BROS MARKETS #184 EUCLID SCHAEFER
Handler Address:	6989 SCHAEFER AVE
Handler City,State,Zip:	CHINO, CA 91710
EPA ID:	CAL000340385
Contact Name:	CHERYL L SKALICKY
Contact Address:	PO BOX 150
Contact City,State,Zip:	SAN BERNARDINO, CA 92402
Contact Telephone:	909-733-5288
Contact Fax:	909-733-4288
Contact Email:	CHERYL.SKALICKY@STATERBROS.COM
Contact Title:	FINANCIAL SPECIALIST
EPA Region:	09
Land Type:	Private
Federal Waste Generator Description:	Large Quantity Generator
Non-Notifier:	Not reported
Biennial Report Cycle:	2013
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 150
Mailing City,State,Zip:	SAN BERNARDINO, CA 92402
Owner Name:	STATER BROS MARKETS
Owner Type:	Private
Operator Name:	STATER BROS. MARKETS
Operator Type:	Private
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported

STATER BROS MARKETS #184 EUCLID SCHAEFER (Continued) **1016954534**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2014-11-20 17:13:31.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Biennial: List of Years
Year: 2013

Click Here for Biennial Reporting System Data:

Hazardous Waste Summary:
Waste Code: P001
Waste Description: 2H-1-BENZOPYRAN-2-ONE, 4-HYDROXY-3-(3-OXO-1-PHENYLBUTYL)-, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3% (OR) WARFARIN, & SALTS, WHEN PRESENT AT CONCENTRATIONS GREATER THAN 0.3%

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	STATER BROS. MARKETS
Legal Status:	Private
Date Became Current:	2008-10-08 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	Not reported
Owner/Operator City,State,Zip:	Not reported
Owner/Operator Telephone:	Not reported
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator: Owner

STATER BROS MARKETS #184 EUCLID SCHAEFER (Continued) **1016954534**

Owner/Operator Name:	STATER BROS MARKETS
Legal Status:	Private
Date Became Current:	2008-10-08 00:00:00.
Date Ended Current:	Not reported
Owner/Operator Address:	301 S TIPPECANOE AVE
Owner/Operator City,State,Zip:	SAN BERNARDINO, CA 92408
Owner/Operator Telephone:	909-733-5000
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2014-03-01 00:00:00.0
Handler Name:	STATER BROS MARKETS #184 EUCLID SCHAEFER
Federal Waste Generator Description:	Large Quantity Generator
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	44511
NAICS Description:	SUPERMARKETS AND OTHER GROCERY (EXCEPT CONVENIENCE) STORES

Facility Has Received Notices of Violations:

Violations:	No Violations Found

Evaluation Action Summary:

Evaluations:	No Evaluations Found

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40 **FISKE & CO** **SWEEPS UST** **S101591302**
NW **13710 S EUCLID ST** **CA FID UST** **N/A**
< 1/8 **ONTARIO, CA 91710**
0.117 mi.
617 ft.

Relative:
Higher

Actual:
728 ft.

SWEEPS UST:

Name:	FISKE & CO
Address:	13710 S EUCLID ST
City:	ONTARIO
Status:	Active
Comp Number:	7832
Number:	1
Board Of Equalization:	44-020023
Referral Date:	09-04-91
Action Date:	09-04-91
Created Date:	09-13-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-007832-000001
Tank Status:	A

FISKE & CO (Continued) **S101591302**

Capacity: 1
Active Date: 09-13-88
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: 2

Name: FISKE & CO
Address: 13710 S EUCLID ST
City: ONTARIO
Status: Active
Comp Number: 7832
Number: 1
Board Of Equalization: 44-020023
Referral Date: 09-04-91
Action Date: 09-04-91
Created Date: 09-13-88
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-007832-000002
Tank Status: A
Capacity: 1
Active Date: 09-13-88
Tank Use: UNKNOWN
STG: P
Content: UNKNOWN
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 36004236
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 13710 S EUCLID ST
Mailing Address 2: Not reported
Mailing City,St,Zip: ONTARIO 91710
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

M41 **AG-RODGRIGUEZ, ANTONIO** **UST** **U003785094**
ENE **7416 SCHAEFER AVE** **N/A**
< 1/8 **CHINO, CA 91762**
0.119 mi.
628 ft. **Site 1 of 4 in cluster M**

Relative: UST:
Higher
Name: AG-RODGRIGUEZ, ANTONIO
Actual: Address: 7416 SCHAEFER AVE
725 ft. City,State,Zip: CHINO, CA 91762
Facility ID: 88016763

AG-RODGRIGUEZ, ANTONIO (Continued) **U003785094**

Permitting Agency: SAN BERNARDINO COUNTY
Latitude: 34.008058
Longitude: -117.642351

M42 **3 PALMS DAIRY** **ENF** **S104762100**
ENE **7416 SCHAEFER** **San Bern. Co. Permit** **N/A**
< 1/8 **ONTARIO, CA 91761** **CIWQS**
0.119 mi.
628 ft. **Site 2 of 4 in cluster M**

Relative: **Higher**
Actual: **725 ft.**

ENF:

Name:	RODRIGUEZ CALF RANCH
Address:	7416 SCHAEFER AVENUE
City,State,Zip:	ONTARIO, CA 91762
Region:	8
Facility Id:	253191
Agency Name:	Not reported
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Not reported
# Of Agencies:	Not reported
Place Latitude:	Not reported
Place Longitude:	Not reported
SIC Code 1:	241
SIC Desc 1:	Dairy Farms
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Enf Action
Design Flow:	Not reported
Threat To Water Quality:	Not reported
Complexity:	Not reported
Pretreatment:	Not reported
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	ANIMALWASTE
# Of Programs:	1
WDID:	Not reported
Reg Measure Id:	332712
Reg Measure Type:	NPDES Permits
Region:	8
Order #:	R8-2007-0001
Npdes# CA#:	CAG018001
Major-Minor:	Not reported
Npdes Type:	Not reported

3 PALMS DAIRY (Continued) **S104762100**

Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Historical
Status Date:	12/24/2013
Effective Date:	09/07/2007
Expiration/Review Date:	09/06/2012
Termination Date:	06/06/2013
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	N
Individual/General:	G
Fee Code:	Not reported
Direction/Voice:	Passive
Enforcement Id(EID):	347146
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	06/02/2004
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	06/02/2004
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Enrollee Under General Dairy Permit for Tony Rodriguez, Rodriguez Calf Ranch
Description:	Not reported
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

San Bern. Co. Permit:

Name:	3 PALMS DAIRY
Address:	7416 SCHAEFER
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000629
Owner:	RODRIGUEZ, ANTONIO
Permit Number:	PT0003768
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	04/30/2013

Name: RODGRIGUEZ, ANTONIO

3 PALMS DAIRY (Continued) **S104762100**

Address: 7416 SCHAEFER
City,State,Zip: ONTARIO, CA 91761
Region: SAN BERNARDINO
Facility ID: FA0000628
Owner: RODRIGUEZ, ANTONIO
Permit Number: PT0004019
Permit Category: HAZMAT HANDLER, UST ONLY - PER YEAR
Facility Status: INACTIVE
Expiration Date: 10/31/1988

Name: RODGRIGUEZ, ANTONIO
Address: 7416 SCHAEFER
City,State,Zip: ONTARIO, CA 91761
Region: SAN BERNARDINO
Facility ID: FA0000628
Owner: RODRIGUEZ, ANTONIO
Permit Number: PT0010959
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 10/31/1988

CIWQS:

Name:	RODRIGUEZ CALF RANCH
Address:	7416 SCHAEFER AVENUE
City,State,Zip:	ONTARIO, CA 91762
Agency:	Rodriguez, Antonio
Agency Address:	7416 Schaefer Avenue, Ontario, CA 91762
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R8-2007-0001
WDID:	8 365910001
NPDES Number:	CAG018001
Adoption Date:	01/01/1900
Effective Date:	06/02/2004
Termination Date:	02/16/2011
Expiration/Review Date:	01/01/1900
Design Flow:	0
Major/Minor:	Minor
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	Not reported
Longitude:	Not reported

N43 **LB MADOLE CO INC** **RCRA NonGen / NLR** **1024803064**
SSW **6995 EDISON AVE** **CAL000250818**
1/8-1/4 **CHINO, CA 91710**
0.151 mi.
797 ft. **Site 1 of 3 in cluster N**

Relative: **Lower**

Actual: **686 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2002-04-25 00:00:00.0
Handler Name:	LB MADOLE CO INC	
Handler Address:		6995 EDISON AVE
Handler City,State,Zip:		CHINO, CA 91710
EPA ID:		CAL000250818
Contact Name:		MARK MADOLE - MGR
Contact Address:		PO BOX 4100
Contact City,State,Zip:		CHINO, CA 91710
Contact Telephone:		909-597-2884
Contact Fax:		909-597-2784
Contact Email:		CHRISTINA@LBMADOLE.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported
Accessibility:		Not reported
Active Site Indicator:		Handler Activities
State District Owner:		Not reported
State District:		Not reported
Mailing Address:		PO BOX 4100
Mailing City,State,Zip:		CHINO, CA 91710-0000
Owner Name:		LB MADOLE CO INC
Owner Type:		Other
Operator Name:		MARK MADOLE - MGR
Operator Type:		Other
Short-Term Generator Activity:		No
Importer Activity:		No
Mixed Waste Generator:		No
Transporter Activity:		No
Transfer Facility Activity:		No
Recycler Activity with Storage:		No
Small Quantity On-Site Burner Exemption:		No
Smelting Melting and Refining Furnace Exemption:		No
Underground Injection Control:		No
Off-Site Waste Receipt:		No
Universal Waste Indicator:		Yes
Universal Waste Destination Facility:		Yes
Federal Universal Waste:		No
Active Site Fed-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site Converter Treatment storage and Disposal Facility:		Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:		Not reported
Active Site State-Reg Handler:		---
Federal Facility Indicator:		Not reported
Hazardous Secondary Material Indicator:		N
Sub-Part K Indicator:		Not reported
Commercial TSD Indicator:		No
Treatment Storage and Disposal Type:		Not reported
2018 GPRA Permit Baseline:		Not on the Baseline
2018 GPRA Renewals Baseline:		Not on the Baseline
Permit Renewals Workload Universe:		Not reported

LB MADOLE CO INC (Continued) **1024803064**

Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 15:46:00.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	MARK MADOLE - MGR
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 4100
Owner/Operator City,State,Zip:	CHINO, CA 91710
Owner/Operator Telephone:	909-597-2884
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	LB MADOLE CO INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 4100
Owner/Operator City,State,Zip:	CHINO, CA 91710-0000
Owner/Operator Telephone:	909-597-2884
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

LB MADOLE CO INC (Continued) **1024803064**

Historic Generators:
Receive Date: 2002-04-25 00:00:00.0
Handler Name: LB MADOLE CO INC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 331111
NAICS Description: IRON AND STEEL MILLS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

N44 **L B MADOLE CO INC** **AST S104767659**
SSW **6995 EDISON** **EMI N/A**
1/8-1/4 **CHINO, CA 91710**
0.151 mi.
797 ft. **Site 2 of 3 in cluster N**

Relative: **Lower**

Actual: **686 ft.**

AST:
Name: L B MADOLE COMPANY, INC.
Address: 6995 EDISON AVE
City/Zip: CHINO,91710
Certified Unified Program Agencies: Not reported
Owner: MADOLE, LARRY
Total Gallons: Not reported
CERSID: 10041262
Facility ID: FA0004323
Business Name: L B MADOLE COMPANY, INC.
Phone: (909) 597-2884
Fax: (909) 597-2764
Mailing Address: 6995 EDISON AVE
Mailing Address City: CHINO
Mailing Address State: CA
Mailing Address Zip Code: 91710
Operator Name: LARRY MADOLE
Operator Phone: 909-597-2884
Owner Phone: (909) 597-2884
Owner Mail Address: PO BOX 4100
Owner State: CA
Owner Zip Code: Not reported
Owner Country: United States
Property Owner Name: Larry Madole
Property Owner Phone: 909-597-2884

L B MADOLE CO INC (Continued) **S104767659**

Property Owner Mailing Address:	PO Box 4100
Property Owner City:	Chino
Property Owner Stat :	CA
Property Owner Zip Code:	91710
Property Owner Country:	United States
EPAID:	CAL000250818

Name:	L B MADOLE COMPANY, INC
Address:	6995 EDISON AVE
City/Zip:	CHINO,
Certified Unified Program Agencies:	San Bernardino
Owner:	MADOLE, LARRY
Total Gallons:	2,972
CERSID:	Not reported
Facility ID:	Not reported
Business Name:	Not reported
Phone:	Not reported
Fax:	Not reported
Mailing Address:	Not reported
Mailing Address City:	Not reported
Mailing Address State:	Not reported
Mailing Address Zip Code:	Not reported
Operator Name:	Not reported
Operator Phone:	Not reported
Owner Phone:	Not reported
Owner Mail Address:	Not reported
Owner State:	Not reported
Owner Zip Code:	Not reported
Owner Country:	Not reported
Property Owner Name:	Not reported
Property Owner Phone:	Not reported
Property Owner Mailing Address:	Not reported
Property Owner City:	Not reported
Property Owner Stat :	Not reported
Property Owner Zip Code:	Not reported
Property Owner Country:	Not reported
EPAID:	Not reported

EMI:

Name:	L B MADOLE CO INC
Address:	6995 EDISON
City,State,Zip:	CHINO, CA 91710
Year:	1990
County Code:	36
Air Basin:	SC
Facility ID:	71447
Air District Name:	SC
SIC Code:	0
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0

L B MADOLE CO INC (Continued) **S104767659**

Part. Matter 10 Micrometers and Smllr Tons/Yr:0

Name:	L B MADOLE CO INC
Address:	6995 EDISON
City,State,Zip:	CHINO, CA 91710
Year:	1995
County Code:	36
Air Basin:	SC
Facility ID:	71447
Air District Name:	SC
SIC Code:	3494
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

M45 **RODRIGUEZ CALF RANCH** **HIST UST** **U001568850**
ENE **7416 SCHAEFER AVE** **WDS** **N/A**
1/8-1/4 **CHINO, CA 0**
0.153 mi.
807 ft. **Site 3 of 4 in cluster M**

Relative:
Higher

Actual:
724 ft.

HIST UST:

Name:	ANTONIO RODRIGUEZ
Address:	7416 SCHAEFER
City,State,Zip:	CHINO, CA 91710
File Number:	000298FB
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/000298FB.pdf
Region:	STATE
Facility ID:	00000036321
Facility Type:	Other
Other Type:	RANCH
Contact Name:	N-A
Telephone:	7146285705
Owner Name:	ANTONIO RODRIGUEZ
Owner Address:	7416 SCHAEFER
Owner City,St,Zip:	CHINO, CA 91710
Total Tanks:	0001
Tank Num:	001
Container Num:	1
Year Installed:	Not reported
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

Click here for Geo Tracker PDF:

WDS:

RODRIGUEZ CALF RANCH (Continued) **U001568850**

Name:	RODRIGUEZ CALF RANCH
Address:	7416 SCHAEFER AVE
City:	CHINO
Facility ID:	Santa Ana River 365910001
Facility Type:	Agricultural - Facility that treats and/or disposes of the wastes associated with confined and concentrated animal feeding, confined animal feeding, confined animal holding, confined and concentrated aquatic animal production facilities, and aquaculture. the treatment and/or disposal of agricultural return water is included in this category.
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAG018001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	8
Facility Telephone:	9096285705
Facility Contact:	ANTONIO RODRIGUEZ
Agency Name:	RODRIGUEZ ANTONIO
Agency Address:	7416 SCHAEFER AVENUE
Agency City,St,Zip:	CHINO 91710
Agency Contact:	ANTONIO RODRIGUEZ
Agency Telephone:	9096285705
Agency Type:	Private
SIC Code:	241
SIC Code 2:	Not reported
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Primary Waste:	STORMS
Waste Type2:	D
Waste2:	Stormwater Runoff
Primary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Secondary Waste:	Solid Wastes
Secondary Waste Type:	Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Moderate Threat to Water Quality. A violation could have a major adverse impact on receiving biota, can cause aesthetic impairment to a significant human population, or render unusable a potential domestic or municipal water supply. Awsthetic impairment would include nuisance from a waste treatment facility.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

M46
ENE
1/8-1/4
0.153 mi.
807 ft.

ANTONIO RODRIGUEZ
7416 SCHAEFER
CHINO, CA 91710

Site 4 of 4 in cluster M

SWEEPS UST **S101618750**
CA FID UST **N/A**

Relative:
Higher

Actual:
724 ft.

SWEEPS UST:

Name:	ANTONIO RODRIGUEZ
Address:	7416 SCHAEFER
City:	CHINO
Status:	Active
Comp Number:	36321
Number:	9
Board Of Equalization:	Not reported
Referral Date:	08-28-91
Action Date:	08-28-91
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-036321-000001
Tank Status:	A
Capacity:	500
Active Date:	07-01-85
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	1

CA FID UST:

Facility ID:	36008930
Regulated By:	UTNKA
Regulated ID:	00036321
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	7146285705
Mail To:	Not reported
Mailing Address:	7416 SCHAEFER
Mailing Address 2:	Not reported
Mailing City,St,Zip:	CHINO 91710
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

47
WNW
1/8-1/4
0.158 mi.
832 ft.

CHINO SMILES
6961 SCHAEFER AVE
CHINO, CA 91710

RCRA NonGen / NLR **1024861122**
CAL000429588

Relative:
Higher

Actual:
719 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:		2017-07-27 00:00:00.0
Handler Name:	CHINO SMILES	
Handler Address:		6961 SCHAEFER AVE
Handler City,State,Zip:		CHINO, CA 91710-9126
EPA ID:		CAL000429588
Contact Name:		OLIVIA DASSO

CHINO SMILES (Continued) **1024861122**

Contact Address:	6961 SCHAEFER AVENUE
Contact City,State,Zip:	CHINO, CA 91710-0000
Contact Telephone:	909-590-0640
Contact Fax:	Not reported
Contact Email:	RISK@PACDEN.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	17000 RED HILL AVENUE
Mailing City,State,Zip:	IRVINE, CA 92614-0000
Owner Name:	MANORANJANI SAMBANGI DENTAL CORP
Owner Type:	Other
Operator Name:	OLIVIA DASSO
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking

CHINO SMILES (Continued) **1024861122**

Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-07 19:36:18.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	OLIVIA DASSO
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6961 SCHAEFER AVENUE
Owner/Operator City,State,Zip:	CHINO, CA 91710-0000
Owner/Operator Telephone:	909-590-0640
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	MANORANJANI SAMBANGI DENTAL CORP
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	6961 SCHAEFER AVENUE
Owner/Operator City,State,Zip:	CHINO, CA 92606-1008
Owner/Operator Telephone:	909-590-0640
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2017-07-27 00:00:00.0
Handler Name: CHINO SMILES	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No

CHINO SMILES (Continued) **1024861122**

Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 62121
NAICS Description: OFFICES OF DENTISTS

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

48
SSW
1/8-1/4
0.175 mi.
923 ft.

QUALITY HAY CO INC **CA FID UST** **S101591350**
14211 EUCLID AVE **N/A**
CHINO, CA 91710

Relative: Lower
Actual: 685 ft.

CA FID UST:
Facility ID: 36005330
Regulated By: UTNKI
Regulated ID: 00012742
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: SAME
Mailing Address 2: Not reported
Mailing City,St,Zip: CHINO 91710
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Inactive

O49
NNW
1/8-1/4
0.181 mi.
956 ft.

DUTCH PREMIUM DAIRY **San Bern. Co. Permit** **S108204310**
13555 S EUCLID AVE **N/A**
ONTARIO, CA 91761

Site 1 of 7 in cluster O

Relative: Higher
Actual: 735 ft.

San Bern. Co. Permit:
Name: DUTCH PREMIUM DAIRY
Address: 13555 S EUCLID AVE
City,State,Zip: ONTARIO, CA 91761
Region: SAN BERNARDINO
Facility ID: FA0000430
Owner: BOS, ALEID
Permit Number: PT0008907
Permit Category: SPECIAL GENERATOR

DUTCH PREMIUM DAIRY (Continued) **S108204310**

Facility Status: INACTIVE
Expiration Date: 04/30/1997

Name: DUTCH PREMIUM DAIRY
Address: 13555 S EUCLID AVE
City,State,Zip: ONTARIO, CA 91761
Region: SAN BERNARDINO
Facility ID: FA0000430
Owner: BOS, ALEID
Permit Number: PT0008906
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 04/30/1997

P50 **ALL STAR DRYCLEANER** **DRYCLEANERS** **S116735919**
West **6939 SCHAEFER AVE STE F** **HWTS** **N/A**
1/8-1/4 **CHINO, CA 91710**
0.181 mi.
957 ft. **Site 1 of 2 in cluster P**

Relative: DRYCLEANERS:
Lower
Actual: Name: ALL STAR DRYCLEANER
713 ft. Address: 6939 SCHAEFER AVE STE F
City,State,Zip: CHINO, CA 91710
EPA Id: CAL000391837
NAICS Code: 81232
NAICS Description: Drycleaning and Laundry Services (except Coin-Operated)
SIC Code: 7211
SIC Description: Power Laundries, Family and Commercial
Create Date: 12/06/2013
Facility Active: Yes
Inactive Date: Not reported
Facility Addr2: Not reported
Owner Name: SHIKARI CORPORATION
Owner Address: 13848 MAPLE RIDGE LN
Owner Address 2: Not reported
Owner Telephone: 9099029393
Contact Name: KHOJ SHIKARI
Contact Address: 6939 SCHAEFER AVE STE F
Contact Address 2: Not reported
Contact Telephone: 9094388356
Contact Fax: Not reported
Mailing Name: Not reported
Mailing Address 1: 6939 SCHAEFER AVE STE F
Mailing Address 2: Not reported
Mailing City: CHINO
Mailing State: CA
Mailing Zip: 91710
Owner Fax: Not reported
Region Code: 4
Latitude: 0
Longitude: 0

HWTS:
Name: ALL STAR DRYCLEANER
Address: 6939 SCHAEFER AVE STE F
Address 2: Not reported

ALL STAR DRYCLEANER (Continued) **S116735919**

City,State,Zip:	CHINO, CA 91710
EPA ID:	CAL000391837
Inactive Date:	Not reported
Create Date:	12/06/2013
Last Act Date:	08/23/2020
Mailing Name:	Not reported
Mailing Address:	6939 SCHAEFER AVE STE F
Mailing Address 2:	Not reported
Mailing City,State,Zip:	CHINO, CA 91710
Owner Name:	SHIKARI CORPORATION
Owner Address:	13848 MAPLE RIDGE LN
Owner Address 2:	Not reported
Owner City,State,Zip:	CHINO HILLS, CA 91709
Contact Name:	KHOJ SHIKARI
Contact Address:	6939 SCHAEFER AVE STE F
Contact Address 2:	Not reported
City,State,Zip:	CHINO, CA 91710

NAICS:

EPA ID:	CAL000391837
Create Date:	2013-12-06 11:41:48.200
NAICS Code:	81232
NAICS Description:	Drycleaning and Laundry Services (except Coin-Operated)
Issued EPA ID Date:	2013-12-06 11:41:48.17300
Inactive Date:	Not reported
Facility Name:	ALL STAR DRYCLEANER
Facility Address:	6939 SCHAEFER AVE STE F
Facility Address 2:	Not reported
Facility City:	CHINO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	91710

P51 **ALL STAR DRYCLEANER** **RCRA NonGen / NLR** **1025868950**
West **6939 SCHAEFER AVE STE F** **CAL000391837**
1/8-1/4 **CHINO, CA 91710**
0.181 mi.
957 ft. **Site 2 of 2 in cluster P**

Relative: **Lower**
Actual: **713 ft.**

RCRA NonGen / NLR:

Date Form Received by Agency:		2013-12-06 00:00:00.0
Handler Name:	ALL STAR DRYCLEANER	
Handler Address:		6939 SCHAEFER AVE STE F
Handler City,State,Zip:		CHINO, CA 91710
EPA ID:		CAL000391837
Contact Name:		KHOJ SHIKARI
Contact Address:		13848 MAPLE RIDGE LN
Contact City,State,Zip:		CHINO HILLS, CA 91709
Contact Telephone:		909-438-8356
Contact Fax:		Not reported
Contact Email:		KRSHIKARI@GMAIL.COM
Contact Title:		Not reported
EPA Region:		09
Land Type:		Not reported
Federal Waste Generator Description:		Not a generator, verified
Non-Notifier:		Not reported
Biennial Report Cycle:		Not reported

ALL STAR DRYCLEANER (Continued) **1025868950**

Accessibility:	Not reported
Active Site Indicator:	Not reported
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	6939 SCHAEFER AVE STE F
Mailing City,State,Zip:	CHINO, CA 91710
Owner Name:	SHIKARI CORPORATION
Owner Type:	Other
Operator Name:	KHOJ SHIKARI
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	No
Universal Waste Destination Facility:	No
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported

ALL STAR DRYCLEANER (Continued) **1025868950**

Handler Date of Last Change:	2019-11-08 14:10:30.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Operator
Owner/Operator Name:	KHOJ SHIKARI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	13848 MAPLE RIDGE LN
Owner/Operator City,State,Zip:	CHINO HILLS, CA 91709
Owner/Operator Telephone:	909-438-8356
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SHIKARI CORPORATION
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	13848 MAPLE RIDGE LN
Owner/Operator City,State,Zip:	CHINO HILLS, CA 91709
Owner/Operator Telephone:	909-902-9393
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2013-12-06 00:00:00.0
Handler Name: ALL STAR DRYCLEANER	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	Not reported
Recognized Trader Exporter:	Not reported
Spent Lead Acid Battery Importer:	Not reported
Spent Lead Acid Battery Exporter:	Not reported
Current Record:	Yes
Non Storage Recycler Activity:	Not reported
Electronic Manifest Broker:	Not reported

List of NAICS Codes and Descriptions:

NAICS Code:	81232
NAICS Description:	DRYCLEANING AND LAUNDRY SERVICES (EXCEPT COIN-OPERATED)

Facility Has Received Notices of Violations:

Violations:	No Violations Found

ALL STAR DRYCLEANER (Continued) **1025868950**

Evaluation Action Summary:
Evaluations: No Evaluations Found

N52 **LB MADOLE ENGINEERING** **CERS HAZ WASTE** **S109448394**
SSW **14179 ALBERS WY** **CERS TANKS** **N/A**
1/8-1/4 **CHINO, CA 91710** **NPDES**
0.193 mi. **San Bern. Co. Permit**
1017 ft. **Site 3 of 3 in cluster N** **CIWQS**
CERS

Relative:
Lower

Actual:
683 ft.

CERS HAZ WASTE:
Name: L B MADOLE COMPANY, INC.
Address: 14179 ALBERS WAY
City,State,Zip: CHINO, CA 91710
Site ID: 128565
CERS ID: 10041262
CERS Description: Hazardous Waste Generator

CERS TANKS:
Name: L B MADOLE COMPANY, INC.
Address: 14179 ALBERS WAY
City,State,Zip: CHINO, CA 91710
Site ID: 128565
CERS ID: 10041262
CERS Description: Aboveground Petroleum Storage

NPDES:
Name: LB MADOLE ENGINEERING
Address: 14179 ALBERS WY
City,State,Zip: CHINO, CA 91710
Facility Status: Active
NPDES Number: CAS000001
Region: 8
Agency Number: 0
Regulatory Measure ID: 340313
Place ID: Not reported
Order Number: 97-03-DWQ
WDID: 8 36I021429
Regulatory Measure Type: Enrollee
Program Type: Industrial
Adoption Date Of Regulatory Measure: Not reported
Effective Date Of Regulatory Measure: 02/04/2008
Termination Date Of Regulatory Measure: Not reported
Expiration Date Of Regulatory Measure: Not reported
Discharge Address: 14179 Albers Wy
Discharge Name: LB Madole Engineering
Discharge City: Chino
Discharge State: California
Discharge Zip: 91710
Status: Not reported
Status Date: Not reported
Operator Name: Not reported
Operator Address: Not reported
Operator City: Not reported
Operator State: Not reported

LB MADOLE ENGINEERING (Continued) **S109448394**

Operator Zip:	Not reported

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	340313
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I021429
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/04/2008
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	LB Madole Engineering
Discharge Address:	14179 Albers Wy
Discharge City:	Chino
Discharge State:	California
Discharge Zip:	91710
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported

LB MADOLE ENGINEERING (Continued) **S109448394**

Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	340313
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I021429
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	02/04/2008
Status:	Active
Status Date:	02/04/2008
Place Size:	4.25
Place Size Unit:	Acres
Contact:	Larry Madole
Contact Title:	President
Contact Phone:	909-597-2884
Contact Phone Ext:	Not reported
Contact Email:	lmadole@lbmadole.com
Operator Name:	LB Madole Engineering
Operator Address:	14179 Albers Wy
Operator City:	Chino
Operator State:	California
Operator Zip:	91710
Operator Contact:	Larry Madole

LB MADOLE ENGINEERING (Continued) **S109448394**

Operator Contact Title:	President
Operator Contact Phone:	909-597-2884
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	lmadole@lbmadole.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Prado Flood Control
Certifier:	LARRY MADOLE
Certifier Title:	Office Manager
Certification Date:	28-JUN-16
Primary Sic:	3531-Construction Machinery and Equipment
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

Name:	LB MADOLE ENGINEERING
Address:	14179 ALBERS WY
City,State,Zip:	CHINO, CA 91710
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36I021429
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported

LB MADOLE ENGINEERING (Continued) **S109448394**

Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	Active
Status Date:	02/04/2008
Operator Name:	LB Madole Engineering
Operator Address:	14179 Albers Wy
Operator City:	Chino
Operator State:	California
Operator Zip:	91710

NPDES as of 03/2018:

NPDES Number:	CAS000001
Status:	Active
Agency Number:	0
Region:	8
Regulatory Measure ID:	340313
Order Number:	97-03-DWQ
Regulatory Measure Type:	Enrollee
Place ID:	Not reported
WDID:	8 36I021429
Program Type:	Industrial
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	02/04/2008
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	LB Madole Engineering
Discharge Address:	14179 Albers Wy
Discharge City:	Chino
Discharge State:	California
Discharge Zip:	91710
Received Date:	Not reported
Processed Date:	Not reported
Status:	Not reported
Status Date:	Not reported
Place Size:	Not reported
Place Size Unit:	Not reported
Contact:	Not reported
Contact Title:	Not reported
Contact Phone:	Not reported
Contact Phone Ext:	Not reported
Contact Email:	Not reported
Operator Name:	Not reported
Operator Address:	Not reported
Operator City:	Not reported
Operator State:	Not reported
Operator Zip:	Not reported
Operator Contact:	Not reported
Operator Contact Title:	Not reported
Operator Contact Phone:	Not reported
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	Not reported
Operator Type:	Not reported
Developer:	Not reported
Developer Address:	Not reported

LB MADOLE ENGINEERING (Continued) **S109448394**

Developer City:	Not reported
Developer State:	Not reported
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	Not reported
Receiving Water Name:	Not reported
Certifier:	Not reported
Certifier Title:	Not reported
Certification Date:	Not reported
Primary Sic:	Not reported
Secondary Sic:	Not reported
Tertiary Sic:	Not reported
NPDES Number:	Not reported
Status:	Not reported
Agency Number:	Not reported
Region:	8
Regulatory Measure ID:	340313
Order Number:	Not reported
Regulatory Measure Type:	Industrial
Place ID:	Not reported
WDID:	8 36I021429
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Discharge Name:	Not reported
Discharge Address:	Not reported
Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Received Date:	05/09/2008
Processed Date:	02/04/2008
Status:	Active
Status Date:	02/04/2008
Place Size:	4.25

LB MADOLE ENGINEERING (Continued) **S109448394**

Place Size Unit:	Acres
Contact:	Larry Madole
Contact Title:	President
Contact Phone:	909-597-2884
Contact Phone Ext:	Not reported
Contact Email:	lmadole@lbmadole.com
Operator Name:	LB Madole Engineering
Operator Address:	14179 Albers Wy
Operator City:	Chino
Operator State:	California
Operator Zip:	91710
Operator Contact:	Larry Madole
Operator Contact Title:	President
Operator Contact Phone:	909-597-2884
Operator Contact Phone Ext:	Not reported
Operator Contact Email:	lmadole@lbmadole.com
Operator Type:	Private Business
Developer:	Not reported
Developer Address:	Not reported
Developer City:	Not reported
Developer State:	California
Developer Zip:	Not reported
Developer Contact:	Not reported
Developer Contact Title:	Not reported
Constype Linear Utility Ind:	Not reported
Emergency Phone:	Not reported
Emergency Phone Ext:	Not reported
Constype Above Ground Ind:	Not reported
Constype Below Ground Ind:	Not reported
Constype Cable Line Ind:	Not reported
Constype Comm Line Ind:	Not reported
Constype Commertial Ind:	Not reported
Constype Electrical Line Ind:	Not reported
Constype Gas Line Ind:	Not reported
Constype Industrial Ind:	Not reported
Constype Other Description:	Not reported
Constype Other Ind:	Not reported
Constype Recons Ind:	Not reported
Constype Residential Ind:	Not reported
Constype Transport Ind:	Not reported
Constype Utility Description:	Not reported
Constype Utility Ind:	Not reported
Constype Water Sewer Ind:	Not reported
Dir Discharge Uswater Ind:	N
Receiving Water Name:	Prado Flood Control
Certifier:	LARRY MADOLE
Certifier Title:	Office Manager
Certification Date:	28-JUN-16
Primary Sic:	3531-Construction Machinery and Equipment
Secondary Sic:	Not reported
Tertiary Sic:	Not reported

San Bern. Co. Permit:

Name:	L B MADOLE COMPANY, INC.
Address:	14179 ALBERS WAY
City,State,Zip:	CHINO, CA 91710

LB MADOLE ENGINEERING (Continued) **S109448394**

Region: SAN BERNARDINO
Facility ID: FA0004323
Owner: MADOLE, LARRY
Permit Number: PT0005767
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2021

Name: L B MADOLE COMPANY, INC.
Address: 14179 ALBERS WAY
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0004323
Owner: MADOLE, LARRY
Permit Number: PT0005769
Permit Category: CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status: ACTIVE
Expiration Date: 11/30/2021

Name: L B MADOLE COMPANY, INC.
Address: 14179 ALBERS WAY
City,State,Zip: CHINO, CA 91710
Region: SAN BERNARDINO
Facility ID: FA0004323
Owner: MADOLE, LARRY
Permit Number: PT0005761
Permit Category: APSA 1,320-10,000 GAL FAC CAPACITY
Facility Status: ACTIVE
Expiration Date: 11/30/2021

CIWQS:

Name:	LB MADOLE ENGINEERING
Address:	14179 ALBERS WY
City,State,Zip:	CHINO, CA 91710
Agency:	LB Madole Engineering
Agency Address:	14179 Albers Wy, Chino, CA 91710
Place/Project Type:	Industrial - Construction Machinery and Equipment
SIC/NAICS:	3531
Region:	8
Program:	INDSTW
Regulatory Measure Status:	Active
Regulatory Measure Type:	Storm water industrial
Order Number:	2014-0057-DWQ
WDID:	8 36I021429
NPDES Number:	CAS000001
Adoption Date:	01/01/1900
Effective Date:	02/04/2008
Termination Date:	01/01/1900
Expiration/Review Date:	01/01/1900
Design Flow:	Not reported
Major/Minor:	Not reported
Complexity:	Not reported
TTWQ:	Not reported
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	33.99613
Longitude:	-117.65243

LB MADOLE ENGINEERING (Continued) **S109448394**

CERS:
- Name: LB MADOLE ENGINEERING
- Address: 14179 ALBERS WY
- City,State,Zip: CHINO, CA 91710
- Site ID: 535539
- CERS ID: 712022
- CERS Description: Industrial Facility Storm Water

Violations:
- Site ID: 535539
- Site Name: LB Madole Engineering
- Violation Date: 08-07-2008
- Citation: 2014-0057-DWQ - Industrial General Permit
- Violation Description: SW - Late Report
- Violation Notes: Failure to submit 2007-2008 Annual Report
- Violation Division: Water Boards
- Violation Program: INDSTW
- Violation Source: SMARTS

Enforcement Action:
- Site ID: 535539
- Site Name: LB Madole Engineering
- Site Address: 14179 ALBERS WY
- Site City: CHINO
- Site Zip: 91710
- Enf Action Date: 08-07-2008
- Enf Action Type: Notice of Non-Compliance for Non-Filers
- Enf Action Description: Notice of Non-Compliance for Non-Filers
- Enf Action Notes: Failure to submit Annual Report for the reporting year 2007-2008 before July 1, 2008. Annual Report 2007-2008 Notice of Non-Compliance was sent out on August 7, 2008.
- Enf Action Division: Water Boards
- Enf Action Program: INDSTW
- Enf Action Source: SMARTS

Affiliation:
- Affiliation Type Desc: Owner/Operator
- Entity Name: LB Madole Engineering
- Entity Title: Operator
- Affiliation Address: 14179 Albers Wy
- Affiliation City: Chino
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: 91710
- Affiliation Phone: Not reported

- Name: L B MADOLE COMPANY, INC.
- Address: 14179 ALBERS WAY
- City,State,Zip: CHINO, CA 91710
- Site ID: 128565
- CERS ID: 10041262
- CERS Description: Chemical Storage Facilities

Violations:
- Site ID: 128565
- Site Name: L B MADOLE COMPANY, INC.

LB MADOLE ENGINEERING (Continued) **S109448394**

Violation Date:	11-09-2020
Citation:	HSC 6.95 25508(a)(3) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(3)
Violation Description:	Failure to complete and electronically submit a site map with all required content.
Violation Notes:	Returned to compliance on 12/08/2020. OBSERVATION: The site map that was submitted in 2017 was found to be incomplete. CORRECTIVE ACTION: Submit an accurate and complete site map into CERS.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	128565
Site Name:	L B MADOLE COMPANY, INC.
Violation Date:	05-12-2014
Citation:	HSC 6.95 25505(a) - California Health and Safety Code, Chapter 6.95, Section(s) 25505(a)
Violation Description:	Owner/Operator failed to complete and/or submit a Hazardous Materials Business Plan when storing hazardous materials at or above the thresholds quantities of 55 gallons/500 lbs/200 cubic feet.
Violation Notes:	Returned to compliance on 07/10/2017.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HMRRP
Violation Source:	CERS
Site ID:	128565
Site Name:	L B MADOLE COMPANY, INC.
Violation Date:	07-10-2017
Citation:	HSC 6.5 25250.22 - California Health and Safety Code, Chapter 6.5, Section(s) 25250.22
Violation Description:	Failure to properly manage used oil and/or fuel filters in accordance with the requirements.
Violation Notes:	Returned to compliance on 07/10/2017. Observed the drained used oil filters to not be stored in a labeled container that is able to be closed. Associated violation was corrected on site.
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	128565
Site Name:	L B MADOLE COMPANY, INC.
Violation Date:	05-12-2014
Citation:	HSC 6.67 Multiple - California Health and Safety Code, Chapter 6.67, Section(s) Multiple
Violation Description:	Haz Waste Generator Program - Operations/Maintenance - General
Violation Notes:	Returned to compliance on 07/10/2017. Failure to note accumulation start date on labels (CCR 66262.34(f)(2))
Violation Division:	San Bernardino County Fire Department
Violation Program:	HW
Violation Source:	CERS
Site ID:	128565
Site Name:	L B MADOLE COMPANY, INC.
Violation Date:	07-10-2017
Citation:	HSC 6.67 25270.6(a)(1), 25270.6(a)(2) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.6(a)(1), 25270.6(a)(2)
Violation Description:	Failure to submit a tank facility statement on or before January 1

LB MADOLE ENGINEERING (Continued) **S109448394**

annually unless a current Business Plan has been submitted.
Violation Notes: Returned to compliance on 07/18/2017. This facility has never submitted a tank facility statement or provided the appropriate business plan linkage in CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 128565
Site Name: L B MADOLE COMPANY, INC.
Violation Date: 11-09-2020
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 12/08/2020. OBSERVATION: The CERS business plan was last submitted on 5/31/2019. CORRECTIVE ACTION: Review and submit an updated to the business plan.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 128565
Site Name: L B MADOLE COMPANY, INC.
Violation Date: 11-09-2020
Citation: HSC 6.67 25270.4.5 (a) - California Health and Safety Code, Chapter 6.67, Section(s) 25270.4.5 (a)
Violation Description: Failure to complete a review and evaluation of the SPCC Plan at least once every five years, document the completion of the review, and sign a statement as to whether the SPCC Plan will be amended.
Violation Notes: Returned to compliance on 12/08/2020. OBSERVATION: The SPCC plan was last updated in 2013. The plan is required to bee updated every 5 years. CORRECTIVE ACTION: Submit a signed statement indicating that the 5-year review has been performed, documented and SPCC plan amended if necessary.
Violation Division: San Bernardino County Fire Department
Violation Program: APSA
Violation Source: CERS

Site ID: 128565
Site Name: L B MADOLE COMPANY, INC.
Violation Date: 07-10-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 07/18/2017. Last business plan was submitted via the California Environmental Reporting System (CERS) on 11/30/2015.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection

LB MADOLE ENGINEERING (Continued) **S109448394**

Eval Date:	05-12-2014
Violations Found:	No
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-12-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	05-12-2014
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-10-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION/ POST INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HMRRP
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-10-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION/ POST INSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	HW
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	07-10-2017
Violations Found:	Yes
Eval Type:	Routine done by local agency
Eval Notes:	ROUTINE INSPECTION/ POST NSPECTION
Eval Division:	San Bernardino County Fire Department
Eval Program:	APSA
Eval Source:	CERS
Eval General Type:	Compliance Evaluation Inspection
Eval Date:	11-09-2020
Violations Found:	No
Eval Type:	Routine done by local agency

LB MADOLE ENGINEERING (Continued) **S109448394**

Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-09-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: APSA
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-09-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 128565
Site Name: L B MADOLE COMPANY, INC.
Site Address: 14179 ALBERS WAY
Site City: CHINO
Site Zip: 91710
Enf Action Date: 05-12-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 128565
Site Name: L B MADOLE COMPANY, INC.
Site Address: 14179 ALBERS WAY
Site City: CHINO
Site Zip: 91710
Enf Action Date: 05-12-2014
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Site ID: 128565
Site Name: L B MADOLE COMPANY, INC.
Site Address: 14179 ALBERS WAY
Site City: CHINO
Site Zip: 91710
Enf Action Date: 07-10-2017
Enf Action Type: Notice of Violation (Unified Program)

LB MADOLE ENGINEERING (Continued) **S109448394**

Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	APSA
Enf Action Source:	CERS

Site ID:	128565
Site Name:	L B MADOLE COMPANY, INC.
Site Address:	14179 ALBERS WAY
Site City:	CHINO
Site Zip:	91710
Enf Action Date:	07-10-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HMRRP
Enf Action Source:	CERS

Site ID:	128565
Site Name:	L B MADOLE COMPANY, INC.
Site Address:	14179 ALBERS WAY
Site City:	CHINO
Site Zip:	91710
Enf Action Date:	07-10-2017
Enf Action Type:	Notice of Violation (Unified Program)
Enf Action Description:	Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes:	Not reported
Enf Action Division:	San Bernardino County Fire Department
Enf Action Program:	HW
Enf Action Source:	CERS

Coordinates:

Site ID:	128565
Facility Name:	L B MADOLE COMPANY, INC.
Env Int Type Code:	HWG
Program ID:	10041262
Coord Name:	Not reported
Ref Point Type Desc:	Unknown
Latitude:	33.996150
Longitude:	-117.652170

Affiliation:

Affiliation Type Desc:	Environmental Contact
Entity Name:	LARRY MADOLE
Entity Title:	Not reported
Affiliation Address:	PO BOX 4100
Affiliation City:	CHINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported

Affiliation Type Desc:	Property Owner
Entity Name:	Larry Madole
Entity Title:	Not reported

LB MADOLE ENGINEERING (Continued) **S109448394**

Affiliation Address:	PO Box 4100
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91710
Affiliation Phone:	(909) 597-2884
Affiliation Type Desc:	CUPA District
Entity Name:	San Bernardino County Fire
Entity Title:	Not reported
Affiliation Address:	620 South E Street
Affiliation City:	San Bernardino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92415-0153
Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Identification Signer
Entity Name:	Christina Hildebrand
Entity Title:	Office Manager
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Parent Corporation
Entity Name:	L B MADOLE COMPANY, INC.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Document Preparer
Entity Name:	Christina Hildebrand
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14179 Albers Way
Affiliation City:	CHINO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported

LB MADOLE ENGINEERING (Continued) **S109448394**

Affiliation Type Desc:	Legal Owner
Entity Name:	MADOLE, LARRY
Entity Title:	Not reported
Affiliation Address:	PO BOX 4100
Affiliation City:	CHINO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91710-9171
Affiliation Phone:	(909) 597-2884

Affiliation Type Desc:	Operator
Entity Name:	LARRY MADOLE
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 597-2884

Q53 **HARVEST- ONTARIO B1** **SWF/LF** **S126984114**
ENE **7435 SCHAEFER AVE.** **N/A**
1/8-1/4 **ONTARIO, CA 91762**
0.193 mi.
1019 ft. **Site 1 of 3 in cluster Q**

Relative:
Higher

Actual:
723 ft.

SWF/LF (SWIS):

Name:	HARVEST- ONTARIO B1
Address:	7435 SCHAEFER AVE.
City,State,Zip:	ONTARIO, CA 91762
Region:	STATE
Facility ID:	36-AA-0491
SWIS Number:	36-AA-0491
Point of Contact:	Megan Emslander
Is Archived:	Yes
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Planned
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Ontario
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Notification

Operator:

SWIS Number:	36-AA-0491
Site Name:	Harvest- Ontario B1
Site Operational Status:	Planned
Site Type:	Non-Disposal Only

HARVEST- ONTARIO B1 (Continued) **S126984114**

Site Regulatory Status:	Notification
Latitude:	34.00482
Longitude:	-117.64484
Is Archived:	Yes
Operator:	Harvest Power California, LLC
Started On:	10/23/2015
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(559) 435-1114
Street Address:	Linda Novick 6943 N. Golden State Blvd.
Operator City:	Fresno
Operator State:	CA
Operator Zip:	93722

Waste:

SWIS Number:	36-AA-0491
Site Name:	Harvest- Ontario B1
Activity:	Agricultural Material Composting Operation
Waste Type:	Manure
Site Is Archived:	Yes
Site Operational Status:	Planned
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	Yes
Activity Operational Status:	Planned
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

Q54 **HARVEST- ONTARIO B2** **SWF/LF** **S126984115**
ENE **7435 SCHAEFER AVE.** **N/A**
1/8-1/4 **ONTARIO, CA 91762**
0.193 mi.
1019 ft. **Site 2 of 3 in cluster Q**

Relative:
Higher

Actual:
723 ft.

SWF/LF (SWIS):

Name:	HARVEST- ONTARIO B2
Address:	7435 SCHAEFER AVE.
City,State,Zip:	ONTARIO, CA 91762
Region:	STATE
Facility ID:	36-AA-0492
SWIS Number:	36-AA-0492
Point of Contact:	Megan Emslander
Is Archived:	Yes
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Planned
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana

HARVEST- ONTARIO B2 (Continued) **S126984115**

Local Government:	Ontario
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Notification

Operator:

SWIS Number:	36-AA-0492
Site Name:	Harvest- Ontario B2
Site Operational Status:	Planned
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	34.00482
Longitude:	-117.64484
Is Archived:	Yes
Operator:	Harvest Power California, LLC
Started On:	10/23/2015
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(559) 435-1114
Street Address:	Linda Novick 6943 N. Golden State Blvd.
Operator City:	Fresno
Operator State:	CA
Operator Zip:	93722

Waste:

SWIS Number:	36-AA-0492
Site Name:	Harvest- Ontario B2
Activity:	Green Material Composting Operation
Waste Type:	Green Materials
Site Is Archived:	Yes
Site Operational Status:	Planned
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	Yes
Activity Operational Status:	Planned
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

SWIS Number:	36-AA-0492
Site Name:	Harvest- Ontario B2
Activity:	Green Material Composting Operation
Waste Type:	Wood waste
Site Is Archived:	Yes
Site Operational Status:	Planned
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	Yes
Activity Operational Status:	Planned
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

55
South
1/8-1/4
0.196 mi.
1034 ft.

J.P. LOUBET
14211 EUCLID AVE
CHINO, CA 91710

LUST **S100926655**
SWEEPS UST **N/A**
Cortese
HIST CORTESE
CERS

Relative:
Lower

Actual:
684 ft.

LUST:

Name:	J.P. LOUBET
Address:	14211 EUCLID AVE
City,State,Zip:	CHINO, CA 91710
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100335
Global Id:	T0607100335
Latitude:	33.995635
Longitude:	-117.649955
Status:	Completed - Case Closed
Status Date:	10/19/1994
Case Worker:	Not reported
RB Case Number:	083602487T
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	94016
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Diesel
Site History:	Not reported

LUST:

Global Id:	T0607100335
Contact Type:	Regional Board Caseworker
Contact Name:	ROSE SCOTT
Organization Name:	SANTA ANA RWQCB (REGION 8)
Address:	3737 MAIN STREET, SUITE 500
City:	RIVERSIDE
Email:	rose.scott@waterboards.ca.gov
Phone Number:	9513206375

LUST:

Global Id:	T0607100335
Action Type:	Other
Date:	02/25/1994
Action:	Leak Discovery
Global Id:	T0607100335
Action Type:	Other
Date:	02/25/1994
Action:	Leak Stopped
Global Id:	T0607100335
Action Type:	Other
Date:	03/04/1994
Action:	Leak Reported
Global Id:	T0607100335
Action Type:	ENFORCEMENT
Date:	10/19/1994
Action:	Closure/No Further Action Letter
Global Id:	T0607100335

J.P. LOUBET (Continued) **S100926655**

Action Type: REMEDIATION
Date: 06/21/1994
Action: Excavation

LUST:
Global Id: T0607100335
Status: Open - Case Begin Date
Status Date: 02/25/1994

Global Id: T0607100335
Status: Open - Site Assessment
Status Date: 03/04/1994

Global Id: T0607100335
Status: Completed - Case Closed
Status Date: 10/19/1994

LUST REG 8:
Name: J.P. LOUBET
Address: 14211 EUCLID AVE
City: CHINO
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083602487T
Local Case Num: 94016
Case Type: Soil only
Substance: Diesel
Qty Leaked: Not reported
Abate Method: Excavate and Treat - remove contaminated soil and treat (includes spreading or land farming)
Cross Street: Not reported
Enf Type: CLOS
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: UNK
Leak Source: UNK
Global ID: T0607100335
How Stopped Date: 2/25/1994
Enter Date: 8/29/1994
Date Confirmation of Leak Began: Not reported
Date Preliminary Assessment Began: Not reported
Discover Date: 2/25/1994
Enforcement Date: Not reported
Close Date: 10/19/1994
Date Prelim Assessment Workplan Submitted: 3/4/1994
Date Pollution Characterization Began: Not reported
Date Remediation Plan Submitted: Not reported
Date Remedial Action Underway: Not reported
Date Post Remedial Action Monitoring: Not reported
Enter Date: 8/29/1994
GW Qualifies: Not reported
Soil Qualifies: Not reported

J.P. LOUBET (Continued) **S100926655**

Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	33.995453
Longitude:	-117.6501702
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	0
MTBE Tested:	Not Required to be Tested.
MTBE Class:	*
Staff:	RS
Staff Initials:	BM7
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

SWEEPS UST:

Name:	GEORGE BORBA/JP LOUBET
Address:	14211 EUCLID AVE
City:	CHINO
Status:	Active
Comp Number:	8353
Number:	2
Board Of Equalization:	Not reported
Referral Date:	03-24-92
Action Date:	06-23-94
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported
Capacity:	Not reported
Active Date:	Not reported
Tank Use:	Not reported
STG:	Not reported
Content:	Not reported
Number Of Tanks:	Not reported

Name:	GEORGE BORBA/JP LOUBET
Address:	14211 EUCLID AVE
City:	CHINO
Status:	Not reported
Comp Number:	8353
Number:	Not reported
Board Of Equalization:	Not reported
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-008353-000001

J.P. LOUBET (Continued) **S100926655**

Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 5

Name: GEORGE BORBA/JP LOUBET
Address: 14211 EUCLID AVE
City: CHINO
Status: Not reported
Comp Number: 8353
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-008353-000002
Tank Status: Not reported
Capacity: 5000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

Name: GEORGE BORBA/JP LOUBET
Address: 14211 EUCLID AVE
City: CHINO
Status: Not reported
Comp Number: 8353
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-008353-000003
Tank Status: Not reported
Capacity: 500
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: GEORGE BORBA/JP LOUBET
Address: 14211 EUCLID AVE
City: CHINO
Status: Not reported
Comp Number: 8353
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported

J.P. LOUBET (Continued) **S100926655**

Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-008353-000005
Tank Status: Not reported
Capacity: 300
Active Date: Not reported
Tank Use: UNKNOWN
STG: PRODUCT
Content: Not reported
Number Of Tanks: Not reported

Name: GEORGE BORBA/JP LOUBET
Address: 14211 EUCLID AVE
City: CHINO
Status: Not reported
Comp Number: 8353
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-008353-000006
Tank Status: Not reported
Capacity: 10000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: Not reported

Name: BILL ADKINS TRUCKING
Address: 14211 EUCLID AVE
City: CHINO
Status: Not reported
Comp Number: 30597
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-030597-000001
Tank Status: Not reported
Capacity: 12000
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: DIESEL
Number Of Tanks: 2

Name: BILL ADKINS TRUCKING
Address: 14211 EUCLID AVE
City: CHINO
Status: Not reported
Comp Number: 30597
Number: Not reported

J.P. LOUBET (Continued) **S100926655**

Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 36-000-030597-000002
Tank Status: Not reported
Capacity: 550
Active Date: Not reported
Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: Not reported

CORTESE:
Name: J.P. LOUBET
Address: 14211 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Region: CORTESE
Envirostor Id: Not reported
Global ID: T0607100335
Site/Facility Type: LUST CLEANUP SITE
Cleanup Status: COMPLETED - CASE CLOSED
Status Date: Not reported
Site Code: Not reported
Latitude: Not reported
Longitude: Not reported
Owner: Not reported
Enf Type: Not reported
Swat R: Not reported
Flag: active
Order No: Not reported
Waste Discharge System No: Not reported
Effective Date: Not reported
Region 2: Not reported
WID Id: Not reported
Solid Waste Id No: Not reported
Waste Management Uit Name: Not reported
File Name: Active Open

HIST CORTESE:
edr_fname: J.P. LOUBET
edr_fadd1: 14211 EUCLID
City,State,Zip: CHINO, CA 91708
Region: CORTESE
Facility County Code: 36
Reg By: LTNKA
Reg Id: 083602487T

CERS:
Name: J.P. LOUBET
Address: 14211 EUCLID AVE
City,State,Zip: CHINO, CA 91710
Site ID: 205225
CERS ID: T0607100335
CERS Description: Leaking Underground Storage Tank Cleanup Site

J.P. LOUBET (Continued) **S100926655**

Affiliation:
- Affiliation Type Desc: Regional Board Caseworker
- Entity Name: ROSE SCOTT - SANTA ANA RWQCB (REGION 8)
- Entity Title: Not reported
- Affiliation Address: 3737 MAIN STREET, SUITE 500
- Affiliation City: RIVERSIDE
- Affiliation State: CA
- Affiliation Country: Not reported
- Affiliation Zip: Not reported
- Affiliation Phone: 9513206375

Q56 **BACHOC DAIRY #3** **ENF** **S108536483**
ENE **7445 SCHAEFER AVENUE** **San Bern. Co. Permit** **N/A**
1/8-1/4 **ONTARIO, CA 91762** **CIWQS**
0.199 mi.
1051 ft. **Site 3 of 3 in cluster Q**

Relative: **Higher**
Actual: **723 ft.**

ENF:
- Name: BACHOC DAIRY #3
- Address: 7445 SCHAEFER AVENUE
- City,State,Zip: ONTARIO, CA 91762
- Region: 8
- Facility Id: 208504
- Agency Name: Not reported
- Place Type: Growing
- Place Subtype: Animal Feeding
- Facility Type: Agricultural
- Agency Type: Not reported
- # Of Agencies: Not reported
- Place Latitude: 34.004289
- Place Longitude: -117.642316
- SIC Code 1: 241
- SIC Desc 1: Dairy Farms
- SIC Code 2: Not reported
- SIC Desc 2: Not reported
- SIC Code 3: Not reported
- SIC Desc 3: Not reported
- NAICS Code 1: Not reported
- NAICS Desc 1: Not reported
- NAICS Code 2: Not reported
- NAICS Desc 2: Not reported
- NAICS Code 3: Not reported
- NAICS Desc 3: Not reported
- # Of Places: 1
- Source Of Facility: Enf Action
- Design Flow: Not reported
- Threat To Water Quality: Not reported
- Complexity: Not reported
- Pretreatment: Not reported
- Facility Waste Type: Not reported
- Facility Waste Type 2: Not reported
- Facility Waste Type 3: Not reported
- Facility Waste Type 4: Not reported
- Program: Not reported
- Program Category1: Not reported
- Program Category2: ANIMALWASTE

BACHOC DAIRY #3 (Continued) **S108536483**

# Of Programs:	Not reported
WDID:	Not reported
Reg Measure Id:	Not reported
Reg Measure Type:	Not reported
Region:	Not reported
Order #:	Not reported
Npdes# CA#:	Not reported
Major-Minor:	Not reported
Npdes Type:	Not reported
Reclamation:	Not reported
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	Not reported
Status:	Not reported
Status Date:	Not reported
Effective Date:	Not reported
Expiration/Review Date:	Not reported
Termination Date:	Not reported
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported
Status Enrollee:	Not reported
Individual/General:	Not reported
Fee Code:	Not reported
Direction/Voice:	Not reported
Enforcement Id(EID):	345141
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	11/14/2007
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	11/14/2007
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral Comm - 11/14/2007
Description:	Oral Communication
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

Name:	BACHOC DAIRY #3
Address:	7445 SCHAEFER AVENUE
City,State,Zip:	ONTARIO, CA 91762
Region:	8
Facility Id:	208504

BACHOC DAIRY #3 (Continued) **S108536483**

Agency Name:	Bachoc, Raymond
Place Type:	Growing
Place Subtype:	Animal Feeding
Facility Type:	Agricultural
Agency Type:	Privately-Individual
# Of Agencies:	1
Place Latitude:	34.004289
Place Longitude:	-117.642316
SIC Code 1:	241
SIC Desc 1:	Dairy Farms
SIC Code 2:	Not reported
SIC Desc 2:	Not reported
SIC Code 3:	Not reported
SIC Desc 3:	Not reported
NAICS Code 1:	Not reported
NAICS Desc 1:	Not reported
NAICS Code 2:	Not reported
NAICS Desc 2:	Not reported
NAICS Code 3:	Not reported
NAICS Desc 3:	Not reported
# Of Places:	1
Source Of Facility:	Reg Meas
Design Flow:	0
Threat To Water Quality:	2
Complexity:	C
Pretreatment:	X - Facility is not a POTW
Facility Waste Type:	Solid wastes, NEC
Facility Waste Type 2:	Stormwater runoff
Facility Waste Type 3:	Not reported
Facility Waste Type 4:	Not reported
Program:	ANIWSTCOWS
Program Category1:	ANIMALWASTE
Program Category2:	ANIMALWASTE
# Of Programs:	1
WDID:	8 365921001
Reg Measure Id:	211880
Reg Measure Type:	Enrollee
Region:	8
Order #:	R8-2007-0001
Npdes# CA#:	CAG018001
Major-Minor:	Minor
Npdes Type:	Not reported
Reclamation:	N - No
Dredge Fill Fee:	Not reported
301H:	Not reported
Application Fee Amt Received:	654
Status:	Historical
Status Date:	07/03/2012
Effective Date:	08/20/1999
Expiration/Review Date:	Not reported
Termination Date:	10/19/2011
WDR Review - Amend:	Not reported
WDR Review - Revise/Renew:	Not reported
WDR Review - Rescind:	Not reported
WDR Review - No Action Required:	Not reported
WDR Review - Pending:	Not reported
WDR Review - Planned:	Not reported

BACHOC DAIRY #3 (Continued) **S108536483**

Status Enrollee:	Y
Individual/General:	I
Fee Code:	15 - WDRs pending rescission
Direction/Voice:	Passive
Enforcement Id(EID):	345097
Region:	8
Order / Resolution Number:	Not reported
Enforcement Action Type:	Oral Communication
Effective Date:	04/02/2008
Adoption/Issuance Date:	Not reported
Achieve Date:	Not reported
Termination Date:	04/02/2008
ACL Issuance Date:	Not reported
EPL Issuance Date:	Not reported
Status:	Historical
Title:	Oral communication - 4/2/2008
Description:	Oral communication
Program:	ANIWSTCOWS
Latest Milestone Completion Date:	Not reported
# Of Programs1:	1
Total Assessment Amount:	0
Initial Assessed Amount:	0
Liability $ Amount:	0
Project $ Amount:	0
Liability $ Paid:	0
Project $ Completed:	0
Total $ Paid/Completed Amount:	0

San Bern. Co. Permit:

Name:	RAYMOND BACHOC DAIRY #3
Address:	7445 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0010962
Owner:	RAYMOND BACHOC
Permit Number:	PT0018902
Permit Category:	HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status:	INACTIVE
Expiration Date:	07/31/2010

Name:	WOOD CREST DAIRY
Address:	7445 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000704
Owner:	WOOD, IVAN
Permit Number:	PT0008918
Permit Category:	SPECIAL HANDLER
Facility Status:	INACTIVE
Expiration Date:	04/30/1997

Name:	WOOD CREST DAIRY
Address:	7445 SCHAEFER AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	SAN BERNARDINO
Facility ID:	FA0000704
Owner:	WOOD, IVAN

BACHOC DAIRY #3 (Continued) **S108536483**

Permit Number: PT0008919
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 04/30/1997

CIWQS:

Name:	BACHOC DAIRY #3
Address:	7445 SCHAEFER AVENUE
City,State,Zip:	ONTARIO, CA 91762
Agency:	Bachoc, Raymond
Agency Address:	13331 Walker Avenue, Ontario, CA 91761
Place/Project Type:	Animal Feeding Facility
SIC/NAICS:	241
Region:	8
Program:	ANIWSTCOWS
Regulatory Measure Status:	Historical
Regulatory Measure Type:	Enrollee
Order Number:	R8-2007-0001
WDID:	8 365921001
NPDES Number:	CAG018001
Adoption Date:	01/01/1900
Effective Date:	08/20/1999
Termination Date:	10/19/2011
Expiration/Review Date:	01/01/1900
Design Flow:	0
Major/Minor:	Minor
Complexity:	C
TTWQ:	2
Enforcement Actions within 5 years:	0
Violations within 5 years:	0
Latitude:	34.004289
Longitude:	-117.642316

O57 **EZELL SALES, INC.** **LUST** **1001613058**
NNW **13545 EUCLID AVE** **HIST UST** **N/A**
1/8-1/4 **ONTARIO, CA 91761** **Cortese**
0.201 mi. **HIST CORTESE**
1060 ft. **Site 2 of 7 in cluster O** **CERS**

Relative:
Higher

Actual:
736 ft.

LUST:

Name:	EZELL SALES, INC.
Address:	13545 EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
Lead Agency:	SAN BERNARDINO COUNTY
Case Type:	LUST Cleanup Site
Geo Track:	http://geotracker.waterboards.ca.gov/profile_report.asp?global_id=T0607100018
Global Id:	T0607100018
Latitude:	34.007668
Longitude:	-117.649813
Status:	Completed - Case Closed
Status Date:	09/09/1988
Case Worker:	Not reported
RB Case Number:	083600151T
Local Agency:	Not reported
File Location:	Local Agency
Local Case Number:	87022
Potential Media Affect:	Soil

EZELL SALES, INC. (Continued) **1001613058**

Potential Contaminants of Concern: Gasoline
Site History: Not reported

LUST:
Global Id: T0607100018
Contact Type: Regional Board Caseworker
Contact Name: PATRICIA HANNON
Organization Name: SANTA ANA RWQCB (REGION 8)
Address: 3737 MAIN STREET, SUITE 500
City: RIVERSIDE
Email: patricia.hannon@waterboards.ca.gov
Phone Number: Not reported

LUST:
Global Id: T0607100018
Action Type: Other
Date: 07/10/1986
Action: Leak Discovery

Global Id: T0607100018
Action Type: Other
Date: 07/10/1986
Action: Leak Stopped

Global Id: T0607100018
Action Type: Other
Date: 08/26/1986
Action: Leak Reported

LUST:
Global Id: T0607100018
Status: Open - Case Begin Date
Status Date: 07/10/1986

Global Id: T0607100018
Status: Open - Site Assessment
Status Date: 09/03/1986

Global Id: T0607100018
Status: Completed - Case Closed
Status Date: 09/09/1988

LUST REG 8:
Name: EZELL SALES, INC.
Address: 13545 EUCLID AVE
City: ONTARIO
Region: 8
County: San Bernardino
Regional Board: Santa Ana Region
Facility Status: Case Closed
Case Number: 083600151T
Local Case Num: 87022
Case Type: Soil only
Substance: Regular Gasoline
Qty Leaked: Not reported

EZELL SALES, INC. (Continued) **1001613058**

Abate Method:	Not reported
Cross Street:	SCHAEFER
Enf Type:	Not reported
Funding:	Not reported
How Discovered:	Tank Closure
How Stopped:	Not reported
Leak Cause:	Corrosion
Leak Source:	Tank
Global ID:	T0607100018
How Stopped Date:	7/10/1986
Enter Date:	1/1/1987
Date Confirmation of Leak Began:	Not reported
Date Preliminary Assessment Began:	Not reported
Discover Date:	7/10/1986
Enforcement Date:	Not reported
Close Date:	9/9/1988
Date Prelim Assessment Workplan Submitted:	Not reported
Date Pollution Characterization Began:	9/3/1986
Date Remediation Plan Submitted:	Not reported
Date Remedial Action Underway:	Not reported
Date Post Remedial Action Monitoring:	Not reported
Enter Date:	1/1/1987
GW Qualifies:	Not reported
Soil Qualifies:	Not reported
Operator:	Not reported
Facility Contact:	Not reported
Interim:	Not reported
Oversite Program:	LUST
Latitude:	34.0048688
Longitude:	-117.6509743
MTBE Date:	Not reported
Max MTBE GW:	Not reported
MTBE Concentration:	0
Max MTBE Soil:	Not reported
MTBE Fuel:	1
MTBE Tested:	Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
MTBE Class:	*
Staff:	PAH
Staff Initials:	RR1
Lead Agency:	Local Agency
Local Agency:	36000L
Hydr Basin #:	UPPER SANTA ANA VALL
Beneficial:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Work Suspended:	Not reported

Summary: Not reported

HIST UST:

Name:	EZELL SALES INC
Address:	13545 EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
File Number:	00029E69
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029E69.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported

EZELL SALES, INC. (Continued) **1001613058**

Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

CORTESE:

Name:	EZELL SALES, INC.
Address:	13545 EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
Region:	CORTESE
Envirostor Id:	Not reported
Global ID:	T0607100018
Site/Facility Type:	LUST CLEANUP SITE
Cleanup Status:	COMPLETED - CASE CLOSED
Status Date:	Not reported
Site Code:	Not reported
Latitude:	Not reported
Longitude:	Not reported
Owner:	Not reported
Enf Type:	Not reported
Swat R:	Not reported
Flag:	active
Order No:	Not reported
Waste Discharge System No:	Not reported
Effective Date:	Not reported
Region 2:	Not reported
WID Id:	Not reported
Solid Waste Id No:	Not reported
Waste Management Uit Name:	Not reported
File Name:	Active Open

HIST CORTESE:

edr_fname:	EZELL SALES, INC
edr_fadd1:	13545 EUCLID
City,State,Zip:	ONTARIO, CA 91761
Region:	CORTESE
Facility County Code:	36
Reg By:	LTNKA
Reg Id:	083600151T

CERS:

Name:	EZELL SALES, INC.

EZELL SALES, INC. (Continued) **1001613058**

Address: 13545 EUCLID AVE
City,State,Zip: ONTARIO, CA 91761
Site ID: 189229
CERS ID: T0607100018
CERS Description: Leaking Underground Storage Tank Cleanup Site

Affiliation:
Affiliation Type Desc: Regional Board Caseworker
Entity Name: PATRICIA HANNON - SANTA ANA RWQCB (REGION 8)
Entity Title: Not reported
Affiliation Address: 3737 MAIN STREET, SUITE 500
Affiliation City: RIVERSIDE
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

O58 **EZELL SALES, INC.** **HIST UST** **U001569977**
NNW **13545 S EUCLID AVE** **San Bern. Co. Permit** **N/A**
1/8-1/4 **ONTARIO, CA 91761** **CERS**
0.201 mi.
1060 ft. **Site 3 of 7 in cluster O**

Relative:
Higher

Actual:
736 ft.

HIST UST:
Name: EZELL SALES, INC.
Address: 13545 S EUCLID AVE
City,State,Zip: ONTARIO, CA 91761
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000042364
Facility Type: Other
Other Type: RETAIL STORE
Contact Name: CHARLES D. SYBESMA
Telephone: 7146273646
Owner Name: EZELL SALES, INC.
Owner Address: 13545 EUCLID AVE
Owner City,St,Zip: ONTARIO, CA 91760
Total Tanks: 0002

Tank Num: 001
Container Num: #1
Year Installed: 1971
Tank Capacity: 00000500
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual

Tank Num: 002
Container Num: #2
Year Installed: 1975
Tank Capacity: 00001000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Visual

EZELL SALES, INC. (Continued) **U001569977**

San Bern. Co. Permit:
Name: VALLEY EQUIPMENT COMPANY
Address: 13545 S EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0007017
Owner: VALLEY EQUIPMENT COMPANY
Permit Number: PT0009367
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 11/30/2021

CERS:
Name: VALLEY EQUIPMENT COMPANY
Address: 13545 S EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Site ID: 79902
CERS ID: 10046134
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 79902
Site Name: VALLEY EQUIPMENT COMPANY
Violation Date: 03-18-2020
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 03/18/2020. OBSERVATION: At time of inspection, Nu-dyne 110 was indicated as a trade secret on hazardous materials inventory submitted via CERS on 3-2-2019. This was determined to be incorrect. CORRECTED ON SITE: Nu-dyne was corrected to not a trade secret and an updated business plan was submitted via CERS at time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79902
Site Name: VALLEY EQUIPMENT COMPANY
Violation Date: 03-18-2020
Citation: HSC 6.95 25508.1(a)-(f) - California Health and Safety Code, Chapter 6.95, Section(s) 25508.1(a)-(f)
Violation Description: Failure to electronically update business plan within 30 days of any one of the following events: A 100 percent or more increase in the quantity of a previously disclosed material. Any handling of a previously undisclosed hazardous materials at or above reportable quantities. A change of business address, business ownership, or business name. A substantial change in the handler’s operations that requires modification to any portion of the business plan.
Violation Notes: Returned to compliance on 03/18/2020. OBSERVATION: At time of inspection, observed (5) 15 gallon drums of tetrabase 350 which is more than 100 percent increase in quantity than amount indicated on hazardous materials inventory submitted via CERS on 3-2-2019. CORRECTED ON SITE: The quantity for tetrabase 350 was updated on hazardous materials inventory and a new business plan was submitted

EZELL SALES, INC. (Continued) **U001569977**

via CERS at time of inspection.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79902
Site Name: VALLEY EQUIPMENT COMPANY
Violation Date: 02-16-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to annually review and electronically certify that the business plan is complete and accurate on or before the annual due date.
Violation Notes: Returned to compliance on 04/18/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 79902
Site Name: VALLEY EQUIPMENT COMPANY
Violation Date: 02-16-2017
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 04/18/2017.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 01-27-2014
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION-VALLEY EQUIPMENT
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 02-16-2017
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: INSPECTION - BP
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 03-18-2020
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP

EZELL SALES, INC. (Continued) **U001569977**

Eval Source: CERS

Enforcement Action:
Site ID: 79902
Site Name: VALLEY EQUIPMENT COMPANY
Site Address: 13545 S EUCLID AVE
Site City: ONTARIO
Site Zip: 91762
Enf Action Date: 02-16-2017
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Affiliation:
Affiliation Type Desc: Property Owner
Entity Name: BARNABAS INVESTMENT
Entity Title: Not reported
Affiliation Address: 13545 S EUCLID AVENUE
Affiliation City: ONTARIO
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91762
Affiliation Phone: (909) 615-1346

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Facility Mailing Address
Entity Name: Mailing Address
Entity Title: Not reported
Affiliation Address: 13545 SOUTH EUCLID AVE
Affiliation City: ONTARIO
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 91762
Affiliation Phone: Not reported

Affiliation Type Desc: Identification Signer
Entity Name: NORMAN ZUIDEMA JR
Entity Title: PRESIDENT
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

EZELL SALES, INC. (Continued) **U001569977**

Affiliation Type Desc:	Legal Owner
Entity Name:	VALLEY EQUIPMENT COMPANY
Entity Title:	Not reported
Affiliation Address:	13545 SOUTH EUCLID AVE
Affiliation City:	ONTARIO
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91762
Affiliation Phone:	(909) 464-1846

Affiliation Type Desc:	Document Preparer
Entity Name:	KAT MADERO
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

Affiliation Type Desc:	Environmental Contact
Entity Name:	NORM ZUIDEMA
Entity Title:	Not reported
Affiliation Address:	13545 S EUCLID AVE
Affiliation City:	ONTARIO
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91762
Affiliation Phone:	Not reported

Affiliation Type Desc:	Operator
Entity Name:	NORM ZUIDEMA
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 615-1346

Affiliation Type Desc:	Parent Corporation
Entity Name:	VALLEY EQUIPMENT COMPANY
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

59
SSW
1/8-1/4
0.214 mi.
1131 ft.

ALBERS MFG CO., INC.
14323 ALBERS WAY
CHINO, CA 91710

CERS HAZ WASTE
San Bern. Co. Permit
CERS

S118406167
N/A

Relative:
Lower

Actual:
682 ft.

CERS HAZ WASTE:

Name:	ALBERS MFG CO., INC.
Address:	14323 ALBERS WAY
City,State,Zip:	CHINO, CA 91710
Site ID:	360405
CERS ID:	10648174
CERS Description:	Hazardous Waste Generator

San Bern. Co. Permit:

Name:	ALBERS MFG CO., INC.
Address:	14323 ALBERS WAY
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0016502
Owner:	Teo Albers, Jr.
Permit Number:	PT0035613
Permit Category:	HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status:	ACTIVE
Expiration Date:	11/30/2021

Name:	ALBERS MFG CO., INC.
Address:	14323 ALBERS WAY
City,State,Zip:	CHINO, CA 91710
Region:	SAN BERNARDINO
Facility ID:	FA0016502
Owner:	Teo Albers, Jr.
Permit Number:	PT0035614
Permit Category:	CONDITIONALLY EXEMPT SM QTY GENERATOR
Facility Status:	ACTIVE
Expiration Date:	11/30/2021

CERS:

Name:	ALBERS MFG CO., INC.
Address:	14323 ALBERS WAY
City,State,Zip:	CHINO, CA 91710
Site ID:	360405
CERS ID:	10648174
CERS Description:	Chemical Storage Facilities

Violations:

Site ID:	360405
Site Name:	Albers Mfg Co., Inc.
Violation Date:	12-13-2018
Citation:	HSC 6.5 25123.3(h)(1) - California Health and Safety Code, Chapter 6.5, Section(s) 25123.3(h)(1)
Violation Description:	Failure to send hazardous waste offsite for treatment, storage, or disposal within 180 days (or 270 days if waste is transported over 200 miles) for a generator who generates less than 1000 kilogram per month if all of the following conditions are met: (1) The quantity of hazardous waste accumulated onsite never exceeds 6,000 kilograms. (2) The generator complies with the requirements of 40 Code of Federal Regulations section 262.34(d), (e) and (f). (3) The generator does not hold acutely hazardous waste or extremely hazardous waste in an amount

ALBERS MFG CO., INC. (Continued) **S118406167**

greater than one kilogram for more than 90 days.

Violation Notes: Returned to compliance on 01/23/2019. OBSERVATION: At the time of inspection, (1) 55 gallon drum of used oil and (1) 35 gallon container of used oil were observed to be stored on site for greater than 90 days. CORRECTIVE ACTION: Dispose of hazardous waste that has been stored over the applicable time limit and provide documentation that the violation has been corrected.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Site ID: 360405
Site Name: Albers Mfg Co., Inc.
Violation Date: 12-13-2018
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 01/29/2019. OBSERVATION: At the time of inspection, the inventory uploaded into CERS was not reflective of what was observed on site. See inventory section of this report for more details. CORRECTIVE ACTION: Submit an accurate and complete hazardous materials inventory into CERS.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-12-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE GENERATOR INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 11-12-2015
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: ROUTINE HANDLER INSPECTION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 12-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection

ALBERS MFG CO., INC. (Continued) **S118406167**

Eval Date: 12-13-2018
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Affiliation:
Affiliation Type Desc: Identification Signer
Entity Name: Teo Albers, Jr.
Entity Title: President
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Parent Corporation
Entity Name: ALBERS MFG CO INC
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Document Preparer
Entity Name: Tina Hinton
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Affiliation Type Desc: Legal Owner
Entity Name: Teo Albers, Jr.
Entity Title: Not reported
Affiliation Address: 14323 Albers Way
Affiliation City: Chino
Affiliation State: CA
Affiliation Country: United States
Affiliation Zip: 91710
Affiliation Phone: (909) 597-5537

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153

ALBERS MFG CO., INC. (Continued) **S118406167**

Affiliation Phone:	(909) 386-8401
Affiliation Type Desc:	Environmental Contact
Entity Name:	Teo Albers, Jr.
Entity Title:	Not reported
Affiliation Address:	14323 Albers Way
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	14323 Albers Way
Affiliation City:	Chino
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91710
Affiliation Phone:	Not reported
Affiliation Type Desc:	Operator
Entity Name:	Albers Mfg. Co., Inc.
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	(909) 597-5537

O60 **BRINDERSON DE LAVAL** **HIST UST** **U001569949**
North **13529 S EUCLID AVE** **N/A**
1/8-1/4 **ONTARIO, CA 91761**
0.220 mi.
1161 ft. **Site 4 of 7 in cluster O**

Relative: **Higher**

Actual: **737 ft.**

HIST UST:

Name:	BRINDERSON DE LAVAL
Address:	13529 S EUCLID AVE
City,State,Zip:	ONTARIO, CA 91761
File Number:	Not reported
URL:	Not reported
Region:	STATE
Facility ID:	00000002271
Facility Type:	Other
Other Type:	DAIRY SUPPLY
Contact Name:	GERARD DYKSTRA
Telephone:	7146286078
Owner Name:	BRINDERSON DE LAVAL SALES AND
Owner Address:	13529 S. EUCLID AVENUE
Owner City,St,Zip:	ONTARIO, CA 91761
Total Tanks:	0002
Tank Num:	001
Container Num:	1

BRINDERSON DE LAVAL (Continued) **U001569949**

Year Installed:	1968
Tank Capacity:	00000500
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

Tank Num:	002
Container Num:	2
Year Installed:	1980
Tank Capacity:	00001000
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	None

O61 **DAIRY CENTER INC** **HIST UST** **S102040030**
North **13529 S EUCLID AVE** **San Bern. Co. Permit** **N/A**
1/8-1/4 **ONTARIO, CA 91762**
0.220 mi.
1161 ft. **Site 5 of 7 in cluster O**

Relative:
Higher

Actual:
737 ft.

HIST UST:

Name:	BRINDERSON DE LAVAL
Address:	13529 S EUCLID AVENUE
City,State,Zip:	ONTARIO, CA 91761
File Number:	00029A67
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00029A67.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported
Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported

Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

San Bern. Co. Permit:

Name:	DAIRY CENTER INC
Address:	13529 S EUCLID AVE
City,State,Zip:	ONTARIO, CA 91762
Region:	SAN BERNARDINO
Facility ID:	FA0002618
Owner:	DAIRY CENTER INC

DAIRY CENTER INC (Continued) **S102040030**

Permit Number: PT0006340
Permit Category: HAZARDOUS MATERIALS 1-3 CHEMICALS SPECIAL
Facility Status: INACTIVE
Expiration Date: 09/30/2015

O62 **BRINDERSON DE LAVAL SALES** **SWEEPS UST** **S101618919**
North **13529 S EUCLID AVE** **CA FID UST** **N/A**
1/8-1/4 **ONTARIO, CA 91761**
0.220 mi.
1161 ft. **Site 6 of 7 in cluster O**

Relative:
Higher

Actual:
737 ft.

SWEEPS UST:

Name:	BRINDERSON DE LAVAL SALES
Address:	13529 S EUCLID AVE
City:	ONTARIO
Status:	Active
Comp Number:	2271
Number:	9
Board Of Equalization:	44-019841
Referral Date:	09-04-91
Action Date:	09-04-91
Created Date:	02-29-88
Owner Tank Id:	1
SWRCB Tank Id:	36-000-002271-000001
Tank Status:	A
Capacity:	500
Active Date:	08-26-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	2

Name:	BRINDERSON DE LAVAL SALES
Address:	13529 S EUCLID AVE
City:	ONTARIO
Status:	Active
Comp Number:	2271
Number:	9
Board Of Equalization:	44-019841
Referral Date:	09-04-91
Action Date:	09-04-91
Created Date:	02-29-88
Owner Tank Id:	2
SWRCB Tank Id:	36-000-002271-000002
Tank Status:	A
Capacity:	1000
Active Date:	08-26-88
Tank Use:	M.V. FUEL
STG:	P
Content:	REG UNLEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	36000749
Regulated By:	UTNKA
Regulated ID:	00002271
Cortese Code:	Not reported

BRINDERSON DE LAVAL SALES (Continued) **S101618919**

SIC Code:	Not reported
Facility Phone:	Not reported
Mail To:	Not reported
Mailing Address:	13529 S EUCLID AVE
Mailing Address 2:	Not reported
Mailing City,St,Zip:	ONTARIO 91761
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Active

O63 **SHAREMYCOACHCHINO.COM LLC** **RCRA NonGen / NLR** **1025871531**
North **13529 EUCLID AVE** **CAL000444646**
1/8-1/4 **ONTARIO, CA 91732**
0.220 mi.
1161 ft. **Site 7 of 7 in cluster O**

Relative: RCRA NonGen / NLR:
Higher

Date Form Received by Agency:	2019-03-22 00:00:00.0
Handler Name:	SHAREMYCOACHCHINO.COM LLC
Handler Address:	13529 EUCLID AVE
Handler City,State,Zip:	ONTARIO, CA 91732
EPA ID:	CAL000444646
Contact Name:	RICH GENTRY
Contact Address:	13529 EUCLID AVE
Contact City,State,Zip:	ONTARIO, CA 91732
Contact Telephone:	714-655-1384
Contact Fax:	714-891-2215
Contact Email:	RICHSMCC@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	13529 EUCLID AVE
Mailing City,State,Zip:	ONTARIO, CA 91732
Owner Name:	SHAREMYCOACHCHINO.COM LLC
Owner Type:	Other
Operator Name:	RICH GENTRY
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	Yes
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No

Actual:
737 ft.

SHAREMYCOACHCHINO.COM LLC (Continued) **1025871531**

Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-06-28 18:26:12.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	SHAREMYCOACHCHINO.COM LLC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	13529 EUCLID AVE
Owner/Operator City,State,Zip:	ONTARIO, CA 91732
Owner/Operator Telephone:	909-295-3200
Owner/Operator Telephone Ext:	Not reported

SHAREMYCOACHCHINO.COM LLC (Continued) **1025871531**

Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Owner/Operator Indicator: Operator
Owner/Operator Name: RICH GENTRY
Legal Status: Other
Date Became Current: Not reported
Date Ended Current: Not reported
Owner/Operator Address: 13529 EUCLID AVE
Owner/Operator City,State,Zip: ONTARIO, CA 91732
Owner/Operator Telephone: 714-655-1384
Owner/Operator Telephone Ext: Not reported
Owner/Operator Fax: Not reported
Owner/Operator Email: Not reported

Historic Generators:
Receive Date: 2019-03-22 00:00:00.0
Handler Name: SHAREMYCOACHCHINO.COM LLC
Federal Waste Generator Description: Not a generator, verified
State District Owner: Not reported
Large Quantity Handler of Universal Waste: No
Recognized Trader Importer: No
Recognized Trader Exporter: No
Spent Lead Acid Battery Importer: No
Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 532120
NAICS Description: TRUCK, UTILITY TRAILER, AND RV (RECREATIONAL VEHICLE) RENTAL AND LEASING

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

R64 **GIC TRANSPORT INC** **RCRA NonGen / NLR** **1024825017**
South **14211 EUCLID AVE** **CAL000349863**
1/8-1/4 **ONTARIO, CA 91762**
0.220 mi.
1163 ft. **Site 1 of 5 in cluster R**

Relative:
Lower

Actual:
683 ft.

RCRA NonGen / NLR:
Date Form Received by Agency: 2010-02-08 00:00:00.0
Handler Name: GIC TRANSPORT INC
Handler Address: 14211 EUCLID AVE
Handler City,State,Zip: ONTARIO, CA 91762
EPA ID: CAL000349863
Contact Name: GARY J. BRUGGEMAN
Contact Address: 14211 EUCLID AVE
Contact City,State,Zip: ONTARIO, CA 91761

GIC TRANSPORT INC (Continued) **1024825017**

Contact Telephone:	661-397-0605
Contact Fax:	909-393-1109
Contact Email:	GICTRANSPORT@ATT.NET, GARYJBRUGGEMAN@GMAIL.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	14211 EUCLID AVE
Mailing City,State,Zip:	ONTARIO, CA 91762-0000
Owner Name:	GIC TRANSPORT INC
Owner Type:	Other
Operator Name:	GARY J. BRUGGEMAN
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No
Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No

GIC TRANSPORT INC (Continued) **1024825017**

Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2018-09-05 20:31:57.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	GIC TRANSPORT INC
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	2055 MCKEE RD
Owner/Operator City,State,Zip:	BAKERSFIELD, CA 93313-0000
Owner/Operator Telephone:	661-397-0605
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	GARY J. BRUGGEMAN
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14211 EUCLID AVE
Owner/Operator City,State,Zip:	ONTARIO, CA 91761
Owner/Operator Telephone:	661-397-0605
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2010-02-08 00:00:00.0
Handler Name: GIC TRANSPORT INC	
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No
Spent Lead Acid Battery Exporter:	No
Current Record:	Yes
Non Storage Recycler Activity:	Not reported

GIC TRANSPORT INC (Continued) **1024825017**

Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 48423
NAICS Description: SPECIALIZED FREIGHT (EXCEPT USED GOODS) TRUCKING, LONG-DISTANCE

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

R65 **J P LOUBET CO** **UST** **U003785336**
South **14211 EUCLID AVE** **N/A**
1/8-1/4 **CHINO, CA 91762**
0.220 mi.
1163 ft. **Site 2 of 5 in cluster R**

Relative: **Lower**
Actual: **683 ft.**

UST:
Name: J P LOUBET CO
Address: 14211 EUCLID AVE
City,State,Zip: CHINO, CA 91762
Facility ID: 93030598
Permitting Agency: SAN BERNARDINO COUNTY
Latitude: 33.99522
Longitude: -117.65067

R66 **JP LOUBET COMPANY** **HIST UST** **S113123202**
South **14211 EUCLID AVE** **HAZNET** **N/A**
1/8-1/4 **ONTARIO, CA 91762** **HWTS**
0.220 mi.
1163 ft. **Site 3 of 5 in cluster R**

Relative: **Lower**
Actual: **683 ft.**

HIST UST:
Name: QUALITY HAY COMPANY
Address: 14211 EUCLID AVENUE
City,State,Zip: CHINO, CA 91710
File Number: 0002A456
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002A456.pdf
Region: Not reported
Facility ID: Not reported
Facility Type: Not reported
Other Type: Not reported
Contact Name: Not reported
Telephone: Not reported
Owner Name: Not reported
Owner Address: Not reported
Owner City,St,Zip: Not reported
Total Tanks: Not reported

Tank Num: Not reported
Container Num: Not reported
Year Installed: Not reported
Tank Capacity: Not reported

JP LOUBET COMPANY (Continued) **S113123202**

Tank Used for: Not reported
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Not reported

Click here for Geo Tracker PDF:

HAZNET:

Name: JP LOUBET COMPANY
Address: 14211 EUCLID AVE
Address 2: Not reported
City,State,Zip: ONTARIO, CA 917627461
Contact: PETER FOSTER
Telephone: 9095976062
Mailing Name: Not reported
Mailing Address: 14211 EUCLID AVE

Year: 2010
Gepaid: CAL000262100
TSD EPA ID: CAD981696420
CA Waste Code: 134 - Aqueous solution with total organic residues less than 10 percent
Disposal Method: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons: 1.008

Year: 2009
Gepaid: CAL000262100
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Tons: 0.57

Year: 2006
Gepaid: CAL000262100
TSD EPA ID: CAD982444481
CA Waste Code: 133 - Aqueous solution with total organic residues 10 percent or more
Disposal Method: R01 - Recycler
Tons: 3.9615

Year: 2005
Gepaid: CAL000262100
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 1.9

Year: 2004
Gepaid: CAL000262100
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 4.56

Year: 2003
Gepaid: CAL000262100

JP LOUBET COMPANY (Continued) **S113123202**

TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 2.28

Year: 2003
Gepaid: CAL000262100
TSD EPA ID: CAT080013352
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 2.28

Year: 2002
Gepaid: CAL000262100
TSD EPA ID: CAD099452708
CA Waste Code: 221 - Waste oil and mixed oil
Disposal Method: R01 - Recycler
Tons: 2.85

Additional Info:
Year: 2010
Gen EPA ID: CAL000262100

Shipment Date: 20100317
Creation Date: 6/10/2010 18:30:32
Receipt Date: 20100318
Manifest ID: 004242359JJK
Trans EPA ID: CAL000827857
Trans Name: JSE ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID: Not reported
Trans 2 Name: Not reported
TSDF EPA ID: CAD981696420
Trans Name: EVERGREEN ENVIRONMENTAL SERVICES
TSDF Alt EPA ID: Not reported
TSDF Alt Name: Not reported
Waste Code Description: 134 - Aqueous solution with <10% total organic residues
RCRA Code: Not reported
Meth Code: H141 - Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Quantity Tons: 1.008
Waste Quantity: 240
Quantity Unit: G
Additional Code 1: Not reported
Additional Code 2: Not reported
Additional Code 3: Not reported
Additional Code 4: Not reported
Additional Code 5: Not reported

Additional Info:
Year: 2002
Gen EPA ID: CAL000262100

Shipment Date: 20021112
Creation Date: 3/15/2003 18:30:36
Receipt Date: 20021113

JP LOUBET COMPANY (Continued) **S113123202**

Manifest ID:	21943251
Trans EPA ID:	CAR000047613
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	Not reported
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.85
Waste Quantity:	750
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2006
Gen EPA ID:	CAL000262100
Shipment Date:	20060428
Creation Date:	12/22/2006 18:30:48
Receipt Date:	20060428
Manifest ID:	24565181
Trans EPA ID:	CAR000047613
Trans Name:	CAL WEST ENVIRONMENTAL SVCS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD982444481
Trans Name:	FILTER RECYCLING SERVICES INC
TSDF Alt EPA ID:	CAD982444481
TSDF Alt Name:	Not reported
Waste Code Description:	133 - Aqueous solution with 10% or more total organic residues
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	3.9615
Waste Quantity:	950
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2009
Gen EPA ID:	CAL000262100
Shipment Date:	20091023
Creation Date:	12/8/2009 18:30:25
Receipt Date:	20091023

JP LOUBET COMPANY (Continued) **S113123202**

Manifest ID:	002482318FLE
Trans EPA ID:	CAR000047613
Trans Name:	CAL WEST ENVIRONMENTAL SERVICES INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL CO
TSDF Alt EPA ID:	Not reported
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	H039 - Other Recovery Of Reclamation For Reuse Including Acid Regeneration, Organics Recovery Ect
Quantity Tons:	0.57
Waste Quantity:	150
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2005
Gen EPA ID:	CAL000262100
Shipment Date:	20050930
Creation Date:	3/10/2006 10:49:15
Receipt Date:	20050930
Manifest ID:	24768133
Trans EPA ID:	CAR000047613
Trans Name:	CAL WEST ENVIRONMENTAL SVCS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL CO
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.9
Waste Quantity:	500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2003
Gen EPA ID:	CAL000262100
Shipment Date:	20030903
Creation Date:	8/3/2004 7:33:04

JP LOUBET COMPANY (Continued) **S113123202**

Receipt Date:	20030905
Manifest ID:	22403419
Trans EPA ID:	CAT080016116
Trans Name:	NIETO AND SONS TRUCKING INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAT080013352
Trans Name:	DEMENNO KERDOON
TSDF Alt EPA ID:	CAT080013352
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.28
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20030703
Creation Date:	7/22/2004 8:36:14
Receipt Date:	20030703
Manifest ID:	22401431
Trans EPA ID:	CAR000047613
Trans Name:	Not reported
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	Not reported
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	2.28
Waste Quantity:	600
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Additional Info:

Year:	2004
Gen EPA ID:	CAL000262100

Shipment Date:	20041229
Creation Date:	3/13/2007 18:30:13
Receipt Date:	20041229
Manifest ID:	24037037
Trans EPA ID:	CAR000047613
Trans Name:	CAL WEST ENVIRONMENTAL SVCS INC
Trans 2 EPA ID:	Not reported

JP LOUBET COMPANY (Continued) **S113123202**

Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL CO
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	NONE
Meth Code:	R01 - Recycler
Quantity Tons:	1.9
Waste Quantity:	500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040319
Creation Date:	8/23/2004 8:30:10
Receipt Date:	20040323
Manifest ID:	23404471
Trans EPA ID:	CAR000047613
Trans Name:	CAL WEST ENVIRONMENTAL SVCS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL CO
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	0.76
Waste Quantity:	200
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

Shipment Date:	20040116
Creation Date:	8/19/2004 11:23:00
Receipt Date:	20040121
Manifest ID:	22755824
Trans EPA ID:	CAR000047613
Trans Name:	CAL WEST ENVIRONMENTAL SVCS INC
Trans 2 EPA ID:	Not reported
Trans 2 Name:	Not reported
TSDF EPA ID:	CAD099452708
Trans Name:	INDUSTRIAL SERVICE OIL CO
TSDF Alt EPA ID:	CAD099452708
TSDF Alt Name:	Not reported
Waste Code Description:	221 - Waste oil and mixed oil
RCRA Code:	Not reported
Meth Code:	R01 - Recycler
Quantity Tons:	1.9

JP LOUBET COMPANY (Continued) **S113123202**

Waste Quantity:	500
Quantity Unit:	G
Additional Code 1:	Not reported
Additional Code 2:	Not reported
Additional Code 3:	Not reported
Additional Code 4:	Not reported
Additional Code 5:	Not reported

HWTS:

Name:	JP LOUBET COMPANY
Address:	14211 EUCLID AVE
Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917627461
EPA ID:	CAL000262100
Inactive Date:	06/30/2010
Create Date:	11/12/2002
Last Act Date:	03/15/2012
Mailing Name:	Not reported
Mailing Address:	14211 EUCLID AVE
Mailing Address 2:	Not reported
Mailing City,State,Zip:	ONTARIO, CA 917620000
Owner Name:	JP LOUBET COMPANY
Owner Address:	14211 EUCLID AVE
Owner Address 2:	Not reported
Owner City,State,Zip:	ONTARIO, CA 917620000
Contact Name:	PETER FOSTER
Contact Address:	14211 EUCLID AVE
Contact Address 2:	Not reported
City,State,Zip:	ONTARIO, CA 917620000

NAICS:

EPA ID:	CAL000262100
Create Date:	2002-11-12 10:14:57.217
NAICS Code:	111998
NAICS Description:	All Other Miscellaneous Crop Farming
Issued EPA ID Date:	2002-11-12 10:14:57.20000
Inactive Date:	2010-06-30 00:00:00
Facility Name:	JP LOUBET COMPANY
Facility Address:	14211 EUCLID AVE
Facility Address 2:	Not reported
Facility City:	ONTARIO
Facility County:	Not reported
Facility State:	CA
Facility Zip:	917627461

R67 **WHOLESALE DISTRIBUTION INC** **RCRA NonGen / NLR** **1024874254**
South **14211 EUCLID AVE** **CAL000442909**
1/8-1/4 **ONTARIO, CA 91762**
0.220 mi.
1163 ft. **Site 4 of 5 in cluster R**

Relative:
Lower

Actual:
683 ft.

RCRA NonGen / NLR:

Date Form Received by Agency:	2019-01-31 00:00:00.0
Handler Name:	WHOLESALE DISTRIBUTION INC
Handler Address:	14211 EUCLID AVE
Handler City,State,Zip:	ONTARIO, CA 91762
EPA ID:	CAL000442909

WHOLESALE DISTRIBUTION INC (Continued) **1024874254**

Contact Name:	ALFREDO SOLIS
Contact Address:	PO BOX 6455
Contact City,State,Zip:	NORCO, CA 91760
Contact Telephone:	714-910-2747
Contact Fax:	Not reported
Contact Email:	TRAINING@WHOLESALEDI.COM
Contact Title:	Not reported
EPA Region:	09
Land Type:	Not reported
Federal Waste Generator Description:	Not a generator, verified
Non-Notifier:	Not reported
Biennial Report Cycle:	Not reported
Accessibility:	Not reported
Active Site Indicator:	Handler Activities
State District Owner:	Not reported
State District:	Not reported
Mailing Address:	PO BOX 6455
Mailing City,State,Zip:	NORCO, CA 91760
Owner Name:	JOHN CONCINI
Owner Type:	Other
Operator Name:	ALFREDO SOLIS
Operator Type:	Other
Short-Term Generator Activity:	No
Importer Activity:	No
Mixed Waste Generator:	No
Transporter Activity:	No
Transfer Facility Activity:	No
Recycler Activity with Storage:	No
Small Quantity On-Site Burner Exemption:	No
Smelting Melting and Refining Furnace Exemption:	No
Underground Injection Control:	No
Off-Site Waste Receipt:	No
Universal Waste Indicator:	Yes
Universal Waste Destination Facility:	Yes
Federal Universal Waste:	No
Active Site Fed-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site Converter Treatment storage and Disposal Facility:	Not reported
Active Site State-Reg Treatment Storage and Disposal Facility:	Not reported
Active Site State-Reg Handler:	---
Federal Facility Indicator:	Not reported
Hazardous Secondary Material Indicator:	N
Sub-Part K Indicator:	Not reported
Commercial TSD Indicator:	No
Treatment Storage and Disposal Type:	Not reported
2018 GPRA Permit Baseline:	Not on the Baseline
2018 GPRA Renewals Baseline:	Not on the Baseline
Permit Renewals Workload Universe:	Not reported
Permit Workload Universe:	Not reported
Permit Progress Universe:	Not reported
Post-Closure Workload Universe:	Not reported
Closure Workload Universe:	Not reported
202 GPRA Corrective Action Baseline:	No
Corrective Action Workload Universe:	No
Subject to Corrective Action Universe:	No
Non-TSDFs Where RCRA CA has Been Imposed Universe:	No
TSDFs Potentially Subject to CA Under 3004 (u)/(v) Universe:	No
TSDFs Only Subject to CA under Discretionary Auth Universe:	No

WHOLESALE DISTRIBUTION INC (Continued) **1024874254**

Corrective Action Priority Ranking:	No NCAPS ranking
Environmental Control Indicator:	No
Institutional Control Indicator:	No
Human Exposure Controls Indicator:	N/A
Groundwater Controls Indicator:	N/A
Operating TSDF Universe:	Not reported
Full Enforcement Universe:	Not reported
Significant Non-Complier Universe:	No
Unaddressed Significant Non-Complier Universe:	No
Addressed Significant Non-Complier Universe:	No
Significant Non-Complier With a Compliance Schedule Universe:	No
Financial Assurance Required:	Not reported
Handler Date of Last Change:	2019-02-22 19:42:22.0
Recognized Trader-Importer:	No
Recognized Trader-Exporter:	No
Importer of Spent Lead Acid Batteries:	No
Exporter of Spent Lead Acid Batteries:	No
Recycler Activity Without Storage:	No
Manifest Broker:	No
Sub-Part P Indicator:	No

Handler - Owner Operator:

Owner/Operator Indicator:	Owner
Owner/Operator Name:	JOHN CONCINI
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	14211 EUCLID AVE
Owner/Operator City,State,Zip:	ONTARIO, CA 91762
Owner/Operator Telephone:	949-300-3676
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Owner/Operator Indicator:	Operator
Owner/Operator Name:	ALFREDO SOLIS
Legal Status:	Other
Date Became Current:	Not reported
Date Ended Current:	Not reported
Owner/Operator Address:	PO BOX 6455
Owner/Operator City,State,Zip:	NORCO, CA 91760
Owner/Operator Telephone:	714-910-2747
Owner/Operator Telephone Ext:	Not reported
Owner/Operator Fax:	Not reported
Owner/Operator Email:	Not reported

Historic Generators:

Receive Date:	2019-01-31 00:00:00.0
Handler Name:	WHOLESALE DISTRIBUTION INC
Federal Waste Generator Description:	Not a generator, verified
State District Owner:	Not reported
Large Quantity Handler of Universal Waste:	No
Recognized Trader Importer:	No
Recognized Trader Exporter:	No
Spent Lead Acid Battery Importer:	No

WHOLESALE DISTRIBUTION INC (Continued) **1024874254**

Spent Lead Acid Battery Exporter: No
Current Record: Yes
Non Storage Recycler Activity: Not reported
Electronic Manifest Broker: Not reported

List of NAICS Codes and Descriptions:
NAICS Code: 811111
NAICS Description: GENERAL AUTOMOTIVE REPAIR

Facility Has Received Notices of Violations:
Violations: No Violations Found

Evaluation Action Summary:
Evaluations: No Evaluations Found

R68 **GIC TRANSPORTATION** **CERS HAZ WASTE** **S107863360**
South **14211 EUCLID AVE** **San Bern. Co. Permit** **N/A**
1/8-1/4 **ONTARIO, CA 91762** **CERS**
0.220 mi.
1163 ft. **Site 5 of 5 in cluster R**

Relative:
Lower

Actual:
683 ft.

CERS HAZ WASTE:
Name: GIC TRANSPORTATION
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Site ID: 33187
CERS ID: 10119622
CERS Description: Hazardous Waste Generator

San Bern. Co. Permit:
Name: GIC TRANSPORTATION
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0012977
Owner: CRUZ, GABRIEL
Permit Number: PT0022749
Permit Category: SMALL QUANTITY GENERATOR
Facility Status: ACTIVE
Expiration Date: 01/31/2021

Name: GIC TRANSPORTATION
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0012977
Owner: CRUZ, GABRIEL
Permit Number: PT0022750
Permit Category: HAZARDOUS MATERIALS 4-10 CHEMICALS
Facility Status: ACTIVE
Expiration Date: 01/31/2021

Name: J P LOUBET CO
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762

GIC TRANSPORTATION (Continued) **S107863360**

Region: SAN BERNARDINO
Facility ID: FA0004067
Owner: J P LOUBET CO
Permit Number: PT0006888
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 07/31/2010

Name: J P LOUBET CO
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0004067
Owner: J P LOUBET CO
Permit Number: PT0006887
Permit Category: SPECIAL HANDLER
Facility Status: INACTIVE
Expiration Date: 07/31/2010

Name: HINOJOSA & SONS TRUCKING
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0010382
Owner: HINOJOSA & SONS TRUCKING
Permit Number: PT0017660
Permit Category: SPECIAL GENERATOR
Facility Status: INACTIVE
Expiration Date: 05/31/2009

Name: HINOJOSA & SONS TRUCKING
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0010382
Owner: HINOJOSA & SONS TRUCKING
Permit Number: PT0017661
Permit Category: HAZMAT HANDLER 0-10 EMPLOYEES
Facility Status: INACTIVE
Expiration Date: 05/31/2009

Name: J P LOUBET CO
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0004067
Owner: J P LOUBET CO
Permit Number: PT0010400
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 07/31/2003

Name: J P LOUBET CO
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Region: SAN BERNARDINO
Facility ID: FA0004067

GIC TRANSPORTATION (Continued) **S107863360**

Owner: J P LOUBET CO
Permit Number: PT0010401
Permit Category: REGULAR UST ANNUAL INSPECTION (PER TANK)
Facility Status: INACTIVE
Expiration Date: 07/31/2003

CERS:
Name: GIC TRANSPORTATION
Address: 14211 EUCLID AVE
City,State,Zip: ONTARIO, CA 91762
Site ID: 33187
CERS ID: 10119622
CERS Description: Chemical Storage Facilities

Violations:
Site ID: 33187
Site Name: GIC TRANSPORTATION
Violation Date: 04-06-2016
Citation: HSC 6.95 25508.2 - California Health and Safety Code, Chapter 6.95, Section(s) 25508.2
Violation Description: Failure to annually review and electronically certify that the business plan is complete, accurate, and up-to-date.
Violation Notes: Returned to compliance on 04/26/2016.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 33187
Site Name: GIC TRANSPORTATION
Violation Date: 04-06-2016
Citation: HSC 6.95 25508(d) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(d)
Violation Description: Failure to complete and/or electronically submit a business plan when storing/handling a hazardous material at or above reportable quantities.
Violation Notes: Returned to compliance on 04/26/2016.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

Site ID: 33187
Site Name: GIC TRANSPORTATION
Violation Date: 05-22-2019
Citation: HSC 6.95 25508(a)(1) - California Health and Safety Code, Chapter 6.95, Section(s) 25508(a)(1)
Violation Description: Failure to complete and electronically submit hazardous material inventory information for all reportable hazardous materials on site at or above reportable quantities.
Violation Notes: Returned to compliance on 05/22/2019. OBSERVATION: Items on Business Plan inventory via the California Environmental Reporting System (CERS) are categorized as obsolete. Items that contain a YELLOW CAUTION SIGN need to be further categorized using the new FEDERAL HAZARD CATEGORIES. CORRECTIVE ACTION: Corrected on site on 05/22/2019.
Violation Division: San Bernardino County Fire Department
Violation Program: HMRRP
Violation Source: CERS

GIC TRANSPORTATION (Continued) **S107863360**

Site ID: 33187
Site Name: GIC TRANSPORTATION
Violation Date: 04-06-2016
Citation: 22 CCR 16 66266.130 - California Code of Regulations, Title 22, Chapter 16, Section(s) 66266.130
Violation Description: Failure to properly handle, manage, label, and recycle used oil and fuel filters.
Violation Notes: Returned to compliance on 04/06/2016.
Violation Division: San Bernardino County Fire Department
Violation Program: HW
Violation Source: CERS

Evaluation:
Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HAZARDOUS MATERIALS INSPECTION FOR GIC TRANSPORTATION
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 04-06-2016
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: HAZARDOUS WASTE GENERATOR INSPECTION FOR GIC TRANSPORTATION
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-22-2019
Violations Found: No
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HW
Eval Source: CERS

Eval General Type: Compliance Evaluation Inspection
Eval Date: 05-22-2019
Violations Found: Yes
Eval Type: Routine done by local agency
Eval Notes: Not reported
Eval Division: San Bernardino County Fire Department
Eval Program: HMRRP
Eval Source: CERS

Enforcement Action:
Site ID: 33187
Site Name: GIC TRANSPORTATION
Site Address: 14211 EUCLID AVE
Site City: ONTARIO
Site Zip: 91762
Enf Action Date: 04-06-2016

GIC TRANSPORTATION (Continued) **S107863360**

Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HMRRP
Enf Action Source: CERS

Site ID: 33187
Site Name: GIC TRANSPORTATION
Site Address: 14211 EUCLID AVE
Site City: ONTARIO
Site Zip: 91762
Enf Action Date: 04-06-2016
Enf Action Type: Notice of Violation (Unified Program)
Enf Action Description: Notice of Violation Issued by the Inspector at the Time of Inspection
Enf Action Notes: Not reported
Enf Action Division: San Bernardino County Fire Department
Enf Action Program: HW
Enf Action Source: CERS

Coordinates:
Site ID: 33187
Facility Name: GIC TRANSPORTATION
Env Int Type Code: HWG
Program ID: 10119622
Coord Name: Not reported
Ref Point Type Desc: Unknown
Latitude: 33.995636
Longitude: -117.649956

Affiliation:
Affiliation Type Desc: Operator
Entity Name: GIC TRANSPORTATION
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: (909) 393-1100

Affiliation Type Desc: CUPA District
Entity Name: San Bernardino County Fire
Entity Title: Not reported
Affiliation Address: 620 South E Street
Affiliation City: San Bernardino
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92415-0153
Affiliation Phone: (909) 386-8401

Affiliation Type Desc: Environmental Contact
Entity Name: SAM CARRASCO
Entity Title: Not reported
Affiliation Address: 2055 McKee Rd
Affiliation City: Bakersfield

GIC TRANSPORTATION (Continued) **S107863360**

Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	93313
Affiliation Phone:	Not reported
Affiliation Type Desc:	Facility Mailing Address
Entity Name:	Mailing Address
Entity Title:	Not reported
Affiliation Address:	2055 Mckee Road
Affiliation City:	Bakersfield
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	93313
Affiliation Phone:	Not reported
Affiliation Type Desc:	Legal Owner
Entity Name:	CRUZ, GABRIEL
Entity Title:	Not reported
Affiliation Address:	2055 MCKEE RD
Affiliation City:	BAKERSFIELD
Affiliation State:	CA
Affiliation Country:	United States
Affiliation Zip:	91762
Affiliation Phone:	(909) 393-1100
Affiliation Type Desc:	Parent Corporation
Entity Name:	GIC TRANSPORTATION
Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Not reported
Affiliation State:	Not reported
Affiliation Country:	Not reported
Affiliation Zip:	Not reported
Affiliation Phone:	Not reported

S69 **EUCLID VETERINARY HOSPITAL** **SWEEPS UST** **S101618935**
North **13525 S EUCLID AVE** **CA FID UST** **N/A**
1/8-1/4 **ONTARIO, CA 91761**
0.244 mi.
1286 ft. **Site 1 of 2 in cluster S**

Relative: SWEEPS UST:
Higher

Actual: | | |
739 ft. |---|---|
Name:	EUCLID VETERINARY HOSPITAL
Address:	13525 S EUCLID AVE
City:	ONTARIO
Status:	Not reported
Comp Number:	9010
Number:	Not reported
Board Of Equalization:	44-020140
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	36-000-009010-000001
Tank Status:	Not reported
Capacity:	4000
Active Date:	Not reported

EUCLID VETERINARY HOSPITAL (Continued) **S101618935**

Tank Use: M.V. FUEL
STG: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

CA FID UST:
Facility ID: 36002441
Regulated By: UTNKA
Regulated ID: 00009010
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: Not reported
Mail To: Not reported
Mailing Address: 13525 S EUCLID AVE
Mailing Address 2: Not reported
Mailing City,St,Zip: ONTARIO 91761
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

S70 **EUCLID VETERINARY HOSPITAL** **HIST UST** **U001569974**
North **13525 S EUCLID AVE** **N/A**
1/8-1/4 **ONTARIO, CA 91761**
0.244 mi.
1286 ft. **Site 2 of 2 in cluster S**

Relative: **Higher**
Actual: **739 ft.**

HIST UST:
Name: EUCLID VETERINARY HOSPITAL
Address: 13525 S EUCLID AVE
City,State,Zip: ONTARIO, CA 91761
File Number: Not reported
URL: Not reported
Region: STATE
Facility ID: 00000009010
Facility Type: Other
Other Type: VETERINARY HOSPITAL
Contact Name: F. N. WALTON, D.V.M.
Telephone: 7145914707
Owner Name: EUCLID VETERINARY HOSPITAL
Owner Address: 13525 S. EUCLID AVENUE
Owner City,St,Zip: ONTARIO, CA 91761
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1980
Tank Capacity: 00004000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: 3/16
Leak Detection: Visual

T71 **MATERIAL RECOVERY SOLUTIONS INC** **SWF/LF** **S119777635**
SE **7325 EDISON AVE** **NPDES** **N/A**
1/4-1/2 **ONTARIO, CA 91762** **CERS**
0.259 mi.
1366 ft. **Site 1 of 2 in cluster T**

Relative:
Lower

Actual:
694 ft.

SWF/LF (SWIS):

Name:	ONTARIO AGRICULTURAL COMMODITIES/REGREEN
Address:	7325 EDISON AVE.
City,State,Zip:	ONTARIO, CA 91762
Region:	STATE
Facility ID:	36-AA-0496
SWIS Number:	36-AA-0496
Point of Contact:	Megan Emslander
Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Active
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Ontario
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Notification

Activity:

SWIS Number:	36-AA-0496
Site Name:	Ontario Agricultural Commodities/Regreen
Activity:	Research Composting Operation
Activity Is Archived:	No
Category:	Composting
Activity Classification:	Solid Waste Operation
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	Not reported
Cease Operation Type:	Not reported
Inspection Frequency:	Quarterly
Throughput:	100
Throughput Units:	Tons per day
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	30000
Capacity Units:	Tons per year
Total Acreage:	0.5
Disposal Acreage:	Not reported
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported
Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Megan Emslander
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Is Archived:	No

MATERIAL RECOVERY SOLUTIONS INC (Continued) **S119777635**

Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
County:	San Bernardino
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Ontario
Street Address:	7325 Edison Ave.
City:	Ontario
State:	CA
ZIP Code:	91762
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services

Operator:

SWIS Number:	36-AA-0496
Site Name:	Ontario Agricultural Commodities/Regreen
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	33.99685
Longitude:	-117.6444
Is Archived:	No
Operator:	Ontario Agricultural Commodities
Started On:	10/5/2016
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(951) 788-6042
Street Address:	Robert Feenstra PO Box 79200
Operator City:	Corona
Operator State:	CA
Operator Zip:	92877

Owner:

SWIS Number:	36-AA-0496
Owner:	Golden Ontario Holdings
Owner Address:	Gary Dou 14240 Sapphire Hill Lane
Owner City:	Chino Hills
Owner State:	CA
Owner Zip:	91709
Site Name:	Ontario Agricultural Commodities/Regreen
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	33.99685
Longitude:	-117.6444
Is Archived:	No
Started On:	10/5/2016
Contact Name:	Not reported

MATERIAL RECOVERY SOLUTIONS INC (Continued) **S119777635**

Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(951) 788-6042

Waste:

SWIS Number:	36-AA-0496
Site Name:	Ontario Agricultural Commodities/Regreen
Activity:	Research Composting Operation
Waste Type:	Food Wastes
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	No
Activity Operational Status:	Active
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

SWIS Number:	36-AA-0496
Site Name:	Ontario Agricultural Commodities/Regreen
Activity:	Research Composting Operation
Waste Type:	Green Materials
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	No
Activity Operational Status:	Active
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

NPDES:

Name:	MATERIAL RECOVERY SOLUTIONS INC
Address:	7325 EDISON AVE
City,State,Zip:	ONTARIO, CA 91762
Facility Status:	Not reported
NPDES Number:	Not reported
Region:	Not reported
Agency Number:	Not reported
Regulatory Measure ID:	Not reported
Place ID:	Not reported
Order Number:	Not reported
WDID:	8 36NNA000183
Regulatory Measure Type:	Industrial
Program Type:	Not reported
Adoption Date Of Regulatory Measure:	Not reported
Effective Date Of Regulatory Measure:	Not reported
Termination Date Of Regulatory Measure:	Not reported
Expiration Date Of Regulatory Measure:	Not reported
Discharge Address:	Not reported
Discharge Name:	Not reported

MATERIAL RECOVERY SOLUTIONS INC (Continued) **S119777635**

Discharge City:	Not reported
Discharge State:	Not reported
Discharge Zip:	Not reported
Status:	No Action Required
Status Date:	07/08/2019
Operator Name:	Material Recovery Solutions Inc
Operator Address:	7325 Edison Ave
Operator City:	Ontario
Operator State:	California
Operator Zip:	91762

CERS:

Name:	ONTARIO AGRICULTURAL COMMODITIES/REGREEN
Address:	7325 EDISON AVE.
City,State,Zip:	ONTARIO, CA
Site ID:	510678
CERS ID:	36-AA-0496
CERS Description:	Solid Waste and Recycle Sites

Affiliation:

Affiliation Type Desc:	Legal Operator
Entity Name:	Ontario Agricultural Commodities
Entity Title:	Not reported
Affiliation Address:	Robert FeenstraPO Box 79200
Affiliation City:	Corona
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	92877
Affiliation Phone:	9517886042

Affiliation Type Desc:	Legal Owner
Entity Name:	Golden Ontario Holdings
Entity Title:	Not reported
Affiliation Address:	Gary Dou14240 Sapphire Hill Lane
Affiliation City:	Chino Hills
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91709
Affiliation Phone:	9517886042

T72 **RESIDUALS RECOVERY GROUP, INC.** **SWF/LF** **S117347578**
SE **7325 EDISON RD.** **CERS** **N/A**
1/4-1/2 **ONTARIO, CA 91762**
0.259 mi.
1366 ft. **Site 2 of 2 in cluster T**

Relative:
Lower

Actual:
694 ft.

SWF/LF (SWIS):

Name:	RESIDUALS RECOVERY GROUP, INC.
Address:	7325 EDISON RD.
City,State,Zip:	ONTARIO, CA 91762
Region:	STATE
Facility ID:	36-AA-0483
SWIS Number:	36-AA-0483
Point of Contact:	Megan Emslander
Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No

RESIDUALS RECOVERY GROUP, INC. (Continued) **S117347578**

Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Active
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Ontario
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Notification

Activity:

SWIS Number:	36-AA-0483
Site Name:	Residuals Recovery Group, Inc.
Activity:	Agricultural Material Composting Operation
Activity Is Archived:	No
Category:	Composting
Activity Classification:	Solid Waste Operation
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	Not reported
Cease Operation Type:	Not reported
Inspection Frequency:	Quarterly
Throughput:	350
Throughput Units:	Tons per day
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	70000
Capacity Units:	Tons per year
Total Acreage:	20
Disposal Acreage:	Not reported
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported
Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Megan Emslander
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
County:	San Bernardino
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Ontario
Street Address:	7325 Edison Rd.
City:	Ontario
State:	CA
ZIP Code:	91762

RESIDUALS RECOVERY GROUP, INC. (Continued) **S117347578**

Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services

Operator:

SWIS Number:	36-AA-0483
Site Name:	Residuals Recovery Group, Inc.
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	33.9966
Longitude:	-117.6434
Is Archived:	No
Operator:	Residuals Recovery Group, Inc.
Started On:	10/30/2014
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(909) 902-0408
Street Address:	Allen Shelby P.O. Box 17482
Operator City:	Anahiem Hills
Operator State:	CA
Operator Zip:	92817

Owner:

SWIS Number:	36-AA-0483
Owner:	Golden Ontario Hills
Owner Address:	Gary Dou 14240 Sapphire Hill Ln.
Owner City:	Chino Hills
Owner State:	CA
Owner Zip:	91709
Site Name:	Residuals Recovery Group, Inc.
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	33.9966
Longitude:	-117.6434
Is Archived:	No
Started On:	10/30/2014
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(909) 591-6389

Waste:

SWIS Number:	36-AA-0483
Site Name:	Residuals Recovery Group, Inc.
Activity:	Agricultural Material Composting Operation
Waste Type:	Agricultural
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	No

RESIDUALS RECOVERY GROUP, INC. (Continued) **S117347578**

Activity Operational Status: Active
Activity Regulatory Status: Notification
Activity Category: Composting
Activity Classification: Solid Waste Operation

SWIS Number: 36-AA-0483
Site Name: Residuals Recovery Group, Inc.
Activity: Agricultural Material Composting Operation
Waste Type: Green Materials
Site Is Archived: No
Site Operational Status: Active
Site Regulatory Status: Notification
Site Type: Non-Disposal Only
Point of Contact: Megan Emslander
Activity Is Archived: No
Activity Operational Status: Active
Activity Regulatory Status: Notification
Activity Category: Composting
Activity Classification: Solid Waste Operation

SWIS Number: 36-AA-0483
Site Name: Residuals Recovery Group, Inc.
Activity: Agricultural Material Composting Operation
Waste Type: Manure
Site Is Archived: No
Site Operational Status: Active
Site Regulatory Status: Notification
Site Type: Non-Disposal Only
Point of Contact: Megan Emslander
Activity Is Archived: No
Activity Operational Status: Active
Activity Regulatory Status: Notification
Activity Category: Composting
Activity Classification: Solid Waste Operation

CERS:
Name: RESIDUALS RECOVERY GROUP, INC.
Address: 7325 EDISON RD.
City,State,Zip: ONTARIO, CA
Site ID: 511347
CERS ID: 36-AA-0483
CERS Description: Solid Waste and Recycle Sites

Affiliation:
Affiliation Type Desc: Legal Operator
Entity Name: Residuals Recovery Group, Inc.
Entity Title: Not reported
Affiliation Address: Allen ShelbyP.O. Box 17482
Affiliation City: Anahiem Hills
Affiliation State: CA
Affiliation Country: Not reported
Affiliation Zip: 92817
Affiliation Phone: 9099020408

Affiliation Type Desc: Legal Owner
Entity Name: Golden Ontario Hills

RESIDUALS RECOVERY GROUP, INC. (Continued) **S117347578**

Entity Title:	Not reported
Affiliation Address:	Gary Dou14240 Sapphire Hill Ln.
Affiliation City:	Chino Hills
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91709
Affiliation Phone:	9095916389

73
NNE
1/4-1/2
0.273 mi.
1443 ft.

RECYCLED WOOD PRODUCTS
12762 S. SULTANA AVE
ONTARIO, CA 91761

SWF/LF **S111828196**
CERS **N/A**

Relative:
Higher

Actual:
743 ft.

SWF/LF (SWIS):

Name:	RECYCLED WOOD PRODUCTS
Address:	12762 S. SULTANA AVE.
City,State,Zip:	ONTARIO, CA 91761
Region:	STATE
Facility ID:	36-AA-0471
SWIS Number:	36-AA-0471
Point of Contact:	Megan Emslander
Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Operational Status:	Active
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Ontario
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services
Regulation Status:	Notification

Activity:

SWIS Number:	36-AA-0471
Site Name:	Recycled Wood Products
Activity:	Green Material Composting Operation
Activity Is Archived:	No
Category:	Composting
Activity Classification:	Solid Waste Operation
WDR Number:	Not reported
WDR Landfill Class:	Not reported
Cease Operation:	Not reported
Cease Operation Type:	Not reported
Inspection Frequency:	Quarterly
Throughput:	12500
Throughput Units:	Cubic Yards per Day
Remaining Capacity:	Not reported
Remaining Capacity Date:	Not reported
Capacity:	35000

RECYCLED WOOD PRODUCTS (Continued) **S111828196**

Capacity Units:	Tons per year
Total Acreage:	12
Disposal Acreage:	Not reported
Permitted Elevation:	Not reported
Permitted Elevation Type:	Not reported
Permitted Depth:	Not reported
Permitted Depth Type:	Not reported
Point of Contact:	Megan Emslander
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Is Archived:	No
Is Closed Illegal Abandoned:	No
Is Site Inert Debris Engineered Fill:	No
Is Financial Assurances Responsible:	No
Absorbed On:	Not reported
Absorbed By:	Not reported
Closed Illegal Abandoned Category:	Not reported
EPA Federal Registry ID:	Not reported
County:	San Bernardino
ARB District:	South Coast
SWRCB Region:	Santa Ana
Local Government:	Ontario
Street Address:	12762 S. Sultana Ave.
City:	Ontario
State:	CA
ZIP Code:	91761
Reporting Agency Legal Name:	County of San Bernardino
Reporting Agency Department:	Div. of Environmental Health Services
Enforcing Agency Legal Name:	County of San Bernardino
Enforcing Agency Department:	Div. of Environmental Health Services

Operator:

SWIS Number:	36-AA-0471
Site Name:	Recycled Wood Products
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	34.01398
Longitude:	-117.64686
Is Archived:	No
Operator:	Recycled Wood Products
Started On:	5/16/2012
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	chris@rwpmulch.com
Contact Phone:	(909) 868-6882
Street Address:	Chris Kiralla 1313 E. Phillips Blvd.
Operator City:	Pomona
Operator State:	CA
Operator Zip:	91766

Owner:

SWIS Number:	36-AA-0471
Owner:	Richard Mushegain
Owner Address:	P.O. Box 5982
Owner City:	Pasadena

RECYCLED WOOD PRODUCTS (Continued) **S111828196**

Owner State:	CA
Owner Zip:	91117
Site Name:	Recycled Wood Products
Site Operational Status:	Active
Site Type:	Non-Disposal Only
Site Regulatory Status:	Notification
Latitude:	34.01398
Longitude:	-117.64686
Is Archived:	No
Started On:	5/16/2012
Contact Name:	Not reported
Contact Title:	Not reported
Contact Email:	Not reported
Contact Phone:	(909) 578-4865

Waste:

SWIS Number:	36-AA-0471
Site Name:	Recycled Wood Products
Activity:	Green Material Composting Operation
Waste Type:	Green Materials
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	No
Activity Operational Status:	Active
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

SWIS Number:	36-AA-0471
Site Name:	Recycled Wood Products
Activity:	Green Material Composting Operation
Waste Type:	Manure
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	No
Activity Operational Status:	Active
Activity Regulatory Status:	Notification
Activity Category:	Composting
Activity Classification:	Solid Waste Operation

SWIS Number:	36-AA-0471
Site Name:	Recycled Wood Products
Activity:	Green Material Composting Operation
Waste Type:	Wood waste
Site Is Archived:	No
Site Operational Status:	Active
Site Regulatory Status:	Notification
Site Type:	Non-Disposal Only
Point of Contact:	Megan Emslander
Activity Is Archived:	No
Activity Operational Status:	Active

RECYCLED WOOD PRODUCTS (Continued) **S111828196**

Activity Regulatory Status: Notification
Activity Category: Composting
Activity Classification: Solid Waste Operation

LOS ANGELES CO. LF:
Name: RECYCLED WOOD PRODUCTS
Address: 12762 S. SULTANA AVE
City,State,Zip: ONTARIO, CA 91761
Site ID: 2584
Alt. Site Name: N/A
Alt. Address: N/A
Site Contact: Not reported
Site Contact Phone: (909) 868-6882
Site Email: hank@rwpmulch.com
Site Website: http://rwpmulch.com/index.html
Site Type: Out-of-County Facility
Site SWIS Number: 36-AA-0471
Beginning Operation Date: N/A
Ending Operation Date: N/A
Local Enforcement Agency: County of San Bernardino
Maximun Depth Fill(Ft): Not reported
Permitted Capacity: 112
Present Use: N/A
Remaining Capacity(Million): N/A
Status: Active
Waste Accepted: Green Materials;Manure;
Hours of Operation: Monday - Saturday 6:30 am - 5 pm
Disposal Area (Acre): Not reported

Detail As Of 01/2014:
Operator Name: Recycled Wood Products
Operator Address: 1313 E. PHILLIPS BLVD.
Operator City/State/Zip: POMONA, Ca 91766
Operator Contact: Not reported
Operator Telephone: (909) 868-6882
Operator Email: hank@rwpmulch.com
Owner Name: Recycled Wood Products
Owner Address: 1313 E. PHILLIPS BLVD.
Owner City/State/Zip: POMONA, Ca 91766
Owner Contact: Not reported
Owner Telephone: (909) 868-6882
Owner Email: Not reported
District: 1
Site Mailing Address: N/A

CERS:
Name: RECYCLED WOOD PRODUCTS
Address: 12762 S. SULTANA AVE.
City,State,Zip: ONTARIO, CA
Site ID: 511280
CERS ID: 36-AA-0471
CERS Description: Solid Waste and Recycle Sites

Affiliation:
Affiliation Type Desc: Legal Owner
Entity Name: Richard Mushegain

RECYCLED WOOD PRODUCTS (Continued) **S111828196**

Entity Title:	Not reported
Affiliation Address:	Not reported
Affiliation City:	Pasadena
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91117
Affiliation Phone:	9095784865
Affiliation Type Desc:	Legal Operator
Entity Name:	RECYCLED WOOD PRODUCTS
Entity Title:	Not reported
Affiliation Address:	Chris Kiralla1313 E. Phillips Blvd.
Affiliation City:	Pomona
Affiliation State:	CA
Affiliation Country:	Not reported
Affiliation Zip:	91766
Affiliation Phone:	9098686882

74
West
1/4-1/2
0.490 mi.
2589 ft.

TE VELDE ELEMENTARY SCHOOL NO. 22E
SAN ANTONIO AVENUE/SCHAEFER AVENUE
CHINO, CA 91710

ENVIROSTOR SCH **S107737428 N/A**

Relative:
Lower

Actual:
715 ft.

ENVIROSTOR:

Name:	TE VELDE ELEMENTARY SCHOOL NO. 22E
Address:	SAN ANTONIO AVENUE/SCHAEFER AVENUE
City,State,Zip:	CHINO, CA 91710
Facility ID:	36010006
Status:	No Further Action
Status Date:	08/29/2000
Site Code:	404068
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	8.39
NPL:	NO
Regulatory Agencies:	SMBRP
Lead Agency:	SMBRP
Program Manager:	Not reported
Supervisor:	Shahir Haddad
Division Branch:	Southern California Schools & Brownfields Outreach
Assembly:	52
Senate:	20
Special Program:	Not reported
Restricted Use:	NO
Site Mgmt Req:	NONE SPECIFIED
Funding:	School District
Latitude:	34.00476
Longitude:	-117.6577
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	NONE SPECIFIED No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	CHINO VALLEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	CHINO VALLEY USD-TEVELDE ELEM SCH/VCA

TE VELDE ELEMENTARY SCHOOL NO. 22E (Continued) **S107737428**

Alias Type: Alternate Name
Alias Name: TE VELDE ELEMENTARY SCHOOL 22E
Alias Type: Alternate Name
Alias Name: 404068
Alias Type: Project Code (Site Code)
Alias Name: 36010006
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 08/29/2000
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Environmental Oversight Agreement
Completed Date: 07/20/2000
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: TE VELDE ELEMENTARY SCHOOL NO. 22E
Address: SAN ANTONIO AVENUE/SCHAEFER AVENUE
City,State,Zip: CHINO, CA 91710
Facility ID: 36010006
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED
Acres: 8.39
National Priorities List: NO
Cleanup Oversight Agencies: SMBRP
Lead Agency: SMBRP
Lead Agency Description: DTSC - Site Cleanup Program
Project Manager: Not reported
Supervisor: Shahir Haddad
Division Branch: Southern California Schools & Brownfields Outreach
Site Code: 404068
Assembly: 52
Senate: 20
Special Program Status: Not reported
Status: No Further Action
Status Date: 08/29/2000
Restricted Use: NO
Funding: School District
Latitude: 34.00476

TE VELDE ELEMENTARY SCHOOL NO. 22E (Continued) **S107737428**

Longitude:	-117.6577
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	NONE SPECIFIED, No Contaminants found
Confirmed COC:	No Contaminants found
Potential Description:	NMA
Alias Name:	CHINO VALLEY UNIFIED SCHOOL DISTRICT
Alias Type:	Alternate Name
Alias Name:	CHINO VALLEY USD-TEVELDE ELEM SCH/VCA
Alias Type:	Alternate Name
Alias Name:	TE VELDE ELEMENTARY SCHOOL 22E
Alias Type:	Alternate Name
Alias Name:	404068
Alias Type:	Project Code (Site Code)
Alias Name:	36010006
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Preliminary Endangerment Assessment Report
Completed Date:	08/29/2000
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Environmental Oversight Agreement
Completed Date:	07/20/2000
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

75
WSW
1/2-1
0.942 mi.
4974 ft.

COLLEGE PARK SCHOOL
EUCALYPTUS / MOUNTAIN AVENUE
CHINO, CA 91710

ENVIROSTOR
SCH
CERS

S107736148
N/A

Relative:
Lower

Actual:
670 ft.

ENVIROSTOR:

Name:	COLLEGE PARK SCHOOL
Address:	EUCALYPTUS / MOUNTAIN AVENUE
City,State,Zip:	CHINO, CA 91710
Facility ID:	60000030
Status:	Inactive - Withdrawn
Status Date:	02/25/2005
Site Code:	404486
Site Type:	School Investigation
Site Type Detailed:	School
Acres:	10
NPL:	NO

COLLEGE PARK SCHOOL (Continued) **S107736148**

Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Not reported
Supervisor: * Rebecca Chou
Division Branch: Southern California Schools & Brownfields Outreach
Assembly: 52
Senate: 20
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: School District
Latitude: 33.99436
Longitude: -117.6660
APN: NONE SPECIFIED
Past Use: AGRICULTURAL - ROW CROPS
Potential COC: NONE SPECIFIED
Confirmed COC: NONE SPECIFIED
Potential Description: NONE SPECIFIED
Alias Name: SUNCAL CO.-PROPOSED COLLEGE PARK SITE
Alias Type: Alternate Name
Alias Name: 404486
Alias Type: Project Code (Site Code)
Alias Name: 60000030
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Cost Recovery Closeout Memo
Completed Date: 02/25/2005
Comments: Not reported

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Inspections/Visit (Non LUR)
Completed Date: 12/12/2003
Comments: Not reported

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SCH:

Name: COLLEGE PARK SCHOOL
Address: EUCALYPTUS / MOUNTAIN AVENUE
City,State,Zip: CHINO, CA 91710
Facility ID: 60000030
Site Type: School Investigation
Site Type Detail: School
Site Mgmt. Req.: NONE SPECIFIED

COLLEGE PARK SCHOOL (Continued) **S107736148**

Acres:	10
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Not reported
Supervisor:	* Rebecca Chou
Division Branch:	Southern California Schools & Brownfields Outreach
Site Code:	404486
Assembly:	52
Senate:	20
Special Program Status:	Not reported
Status:	Inactive - Withdrawn
Status Date:	02/25/2005
Restricted Use:	NO
Funding:	School District
Latitude:	33.99436
Longitude:	-117.6660
APN:	NONE SPECIFIED
Past Use:	AGRICULTURAL - ROW CROPS
Potential COC:	NONE SPECIFIED
Confirmed COC:	NONE SPECIFIED
Potential Description:	NONE SPECIFIED
Alias Name:	SUNCAL CO.-PROPOSED COLLEGE PARK SITE
Alias Type:	Alternate Name
Alias Name:	404486
Alias Type:	Project Code (Site Code)
Alias Name:	60000030
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Cost Recovery Closeout Memo
Completed Date:	02/25/2005
Comments:	Not reported
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Site Inspections/Visit (Non LUR)
Completed Date:	12/12/2003
Comments:	Not reported
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

CERS:

Name:	COLLEGE PARK SCHOOL
Address:	EUCALYPTUS / MOUNTAIN AVENUE
City,State,Zip:	CHINO, CA 91710

COLLEGE PARK SCHOOL (Continued) **S107736148**

Site ID: 336245
CERS ID: 60000030
CERS Description: School Investigation

Affiliation:
Affiliation Type Desc: Supervisor
Entity Name: * Rebecca Chou
Entity Title: Not reported
Affiliation Address: Not reported
Affiliation City: Not reported
Affiliation State: Not reported
Affiliation Country: Not reported
Affiliation Zip: Not reported
Affiliation Phone: Not reported

Count: 7 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CHINO	S107538043		CHINO AVENUE (EAST OF EUCLID)	91710	CDL
CHINO	S104160142	WARMINGTON HOMES	SCHAEFER AVE	91710	LUST, Cortese, HIST CORTESE
ONTARIO	S107538101		COMFORT INN, 2301 S EUCLID, #2		CDL
ONTARIO	1009508586	SO CAL GAS/ONTARIO MGP	CORNER OF CAMPUS, MARTLAND, MO	91761	EDR MGP
ONTARIO	S105693873	E-Z SERVE	903 EUCLID AVE	91762	LUST
ONTARIO	S103669757	MAC'S SERVICE	703 EUCLID AVE	91761	LUST, HIST CORTESE
ONTARIO	S121698092	SAFEWAY PLAZA CLEANERS	2250 C S EUCLID ST	91761	DRYCLEANERS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: N/A
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/30/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 03/30/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

RCRA-VSQG: RCRA - Very Small Quantity Generators (Formerly Conditionally Exempt Small Quantity Generators)

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Very small quantity generators (VSQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 39

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US INST CONTROLS: Institutional Controls Sites List

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 02/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 85

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 83

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84
Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

CPS-SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: No Update Planned

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: No Update Planned

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

MILITARY UST SITES: Military UST Sites (GEOTRACKER)
Military ust sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UST CLOSURE: Proposed Closure of Underground Storage Tank (UST) Cases

UST cases that are being considered for closure by either the State Water Resources Control Board or the Executive Director have been posted for a 60-day public comment period. UST Case Closures being proposed for consideration by the State Water Resources Control Board. These are primarily UST cases that meet closure criteria under the decisional framework in State Water Board Resolution No. 92-49 and other Board orders. UST Case Closures proposed for consideration by the Executive Director pursuant to State Water Board Resolution No. 2012-0061. These are cases that meet the criteria of the Low-Threat UST Case Closure Policy. UST Case Closure Review Denials and Approved Orders.

Date of Government Version: 03/05/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 04/01/2021
Number of Days to Update: 23

Source: State Water Resources Control Board
Telephone: 916-327-7844
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities

A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69

Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 04/08/2020
Date Data Arrived at EDR: 05/20/2020
Date Made Active in Reports: 08/12/2020
Number of Days to Update: 84

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/09/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/02/2020
Date Data Arrived at EDR: 12/18/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 84

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 11/12/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R9: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R7: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/30/2020
Date Data Arrived at EDR: 12/22/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 80

Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R5: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 10/07/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 03/12/2021
Number of Days to Update: 86

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 06/11/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

State and tribal voluntary cleanup sites

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing

A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites

Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/15/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30

Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 11/23/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 04/22/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39

Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137

Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176

Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register

A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/22/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

CERS HAZ WASTE: CERS HAZ WASTE

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Hazardous Chemical Management, Hazardous Waste Onsite Treatment, Household Hazardous Waste Collection, Hazardous Waste Generator, and RCRA LQ HW Generator programs.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: CalEPA
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 12/07/2020
Date Data Arrived at EDR: 12/09/2020
Date Made Active in Reports: 03/02/2021
Number of Days to Update: 83

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Quarterly

PFAS: PFAS Contamination Site Location Listing

A listing of PFAS contaminated sites included in the GeoTracker database.

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 79

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

SAN FRANCISCO AST: Aboveground Storage Tank Site Listing

Aboveground storage tank sites

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Public Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CERS TANKS: California Environmental Reporting System (CERS) Tanks

List of sites in the California Environmental Protection Agency (CalEPA) Regulated Site Portal which fall under the Aboveground Petroleum Storage and Underground Storage Tank regulatory programs.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

Local Land Records

LIENS: Environmental Liens Listing

A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information

A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Semi-Annually

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System
Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/24/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 85
Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

CHMIRS: California Hazardous Material Incident Report System
California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78
Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Semi-Annually

LDS: Land Disposal Sites Listing (GEOTRACKER)
Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)
Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch
Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50
Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated
RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 47

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/11/2018
Date Made Active in Reports: 11/06/2019
Number of Days to Update: 574

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 09/30/2017
Date Data Arrived at EDR: 05/08/2018
Date Made Active in Reports: 07/20/2018
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 06/17/2020
Date Made Active in Reports: 09/10/2020
Number of Days to Update: 85

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 08/14/2020
Date Made Active in Reports: 11/04/2020
Number of Days to Update: 82

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/17/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 60

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 01/22/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 82

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 12/30/2020
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/05/2021
Number of Days to Update: 50

Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 11/19/2020
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25

Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 08/18/2017
Next Scheduled EDR Contact: 12/04/2017
Data Release Frequency: No Update Planned

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/11/2021
Date Made Active in Reports: 05/11/2021
Number of Days to Update: 61

Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data

A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 70

Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List

A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 01/12/2017
Date Data Arrived at EDR: 03/05/2019
Date Made Active in Reports: 11/11/2019
Number of Days to Update: 251

Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 09/13/2019
Date Data Arrived at EDR: 11/06/2019
Date Made Active in Reports: 02/10/2020
Number of Days to Update: 96
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 05/07/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 07/01/2019
Date Data Arrived at EDR: 07/01/2019
Date Made Active in Reports: 09/23/2019
Number of Days to Update: 84
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data
Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 01/02/2020
Date Data Arrived at EDR: 01/28/2020
Date Made Active in Reports: 04/17/2020
Number of Days to Update: 80
Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

CONSENT: Superfund (CERCLA) Consent Decrees
Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/13/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 68

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2017
Date Data Arrived at EDR: 06/22/2020
Date Made Active in Reports: 11/20/2020
Number of Days to Update: 151

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 06/21/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 08/08/2017
Date Data Arrived at EDR: 09/11/2018
Date Made Active in Reports: 09/14/2018
Number of Days to Update: 3

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 04/28/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 08/30/2019
Date Data Arrived at EDR: 11/15/2019
Date Made Active in Reports: 01/28/2020
Number of Days to Update: 74

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 04/27/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 16

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 09/26/2017
Next Scheduled EDR Contact: 01/08/2018
Data Release Frequency: Annually

MINES VIOLATIONS: MSHA Violation Assessment Data

Mines violation and assessment information. Department of Labor, Mine Safety & Health Administration.

Date of Government Version: 05/27/2021
Date Data Arrived at EDR: 05/27/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 14

Source: DOL, Mine Safety & Health Admi
Telephone: 202-693-9424
Last EDR Contact: 05/26/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/24/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 84

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 05/06/2020
Date Data Arrived at EDR: 05/27/2020
Date Made Active in Reports: 08/13/2020
Number of Days to Update: 78

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/17/2021
Number of Days to Update: 84

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/14/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 33

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 07/02/2020
Date Made Active in Reports: 09/17/2020
Number of Days to Update: 77

Source: Department of Defense
Telephone: 703-704-1564
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

DOCKET HWC: Hazardous Waste Compliance Docket Listing

A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/17/2020
Date Made Active in Reports: 02/09/2021
Number of Days to Update: 84

Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 01/02/2021
Date Data Arrived at EDR: 01/08/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 73

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Quarterly

FUELS PROGRAM: EPA Fuels Program Registered Listing

This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/17/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 03/22/2021
Number of Days to Update: 33

Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6

Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 03/22/2021
Date Data Arrived at EDR: 03/23/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 79

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

CUPA LIVERMORE-PLEASANTON: CUPA Facility Listing

list of facilities associated with the various CUPA programs in Livermore-Pleasanton

Date of Government Version: 05/01/2019
Date Data Arrived at EDR: 05/14/2019
Date Made Active in Reports: 07/17/2019
Number of Days to Update: 64

Source: Livermore-Pleasanton Fire Department
Telephone: 925-454-2361
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/04/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 77

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Annually

DRYCLEAN AVAQMD: Antelope Valley Air Quality Management District Drycleaner Listing

A listing of dry cleaners in the Antelope Valley Air Quality Management District.

Date of Government Version: 02/26/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Antelope Valley Air Quality Management District
Telephone: 661-723-8070
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

DRYCLEAN SOUTH COAST: South Coast Air Quality Management District Drycleaner Listing
A listing of dry cleaners in the South Coast Air Quality Management District

Date of Government Version: 02/23/2021
Date Data Arrived at EDR: 02/25/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 83

Source: South Coast Air Quality Management District
Telephone: 909-396-3211
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 06/16/2020
Date Made Active in Reports: 08/28/2020
Number of Days to Update: 73

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Varies

ENF: Enforcement Action Listing
A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 12/31/2020
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/09/2021
Number of Days to Update: 79

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing
Financial Assurance information

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/13/2021
Number of Days to Update: 77

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing
A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 82

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data
Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 04/15/2020
Date Made Active in Reports: 07/02/2020
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 02/16/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/07/2021
Number of Days to Update: 79

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing

Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 02/16/2021
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database

A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/05/2021
Date Data Arrived at EDR: 04/06/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/06/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing

A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

MWMP: Medical Waste Management Program Listing

The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 01/29/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 02/08/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 05/04/2021
Number of Days to Update: 84

Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 78

Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 03/12/2021
Date Data Arrived at EDR: 03/16/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 77

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

UIC GEO: Underground Injection Control Sites (GEOTRACKER)
Underground control injection sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resource Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing

Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water boards review found that more than one-third of the region's active disposal pits are operating without permission.

Date of Government Version: 11/19/2019
Date Data Arrived at EDR: 01/07/2020
Date Made Active in Reports: 03/09/2020
Number of Days to Update: 62

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/14/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: No Update Planned

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: No Update Planned

MILITARY PRIV SITES: Military Privatized Sites (GEOTRACKER)

Military privatized sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROJECT: Project Sites (GEOTRACKER)

Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WDR: Waste Discharge Requirements Listing

In general, the Waste Discharge Requirements (WDRs) Program (sometimes also referred to as the "Non Chapter 15 (Non 15) Program") regulates point discharges that are exempt pursuant to Subsection 20090 of Title 27 and not subject to the Federal Water Pollution Control Act. Exemptions from Title 27 may be granted for nine categories of discharges (e.g., sewage, wastewater, etc.) that meet, and continue to meet, the preconditions listed for each specific exemption. The scope of the WDRs Program also includes the discharge of wastes classified as inert, pursuant to section 20230 of Title 27.

Date of Government Version: 03/09/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22

Source: State Water Resources Control Board
Telephone: 916-341-5810
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

CIWQS: California Integrated Water Quality System

The California Integrated Water Quality System (CIWQS) is a computer system used by the State and Regional Water Quality Control Boards to track information about places of environmental interest, manage permits and other orders, track inspections, and manage violations and enforcement activities.

Date of Government Version: 11/30/2020
Date Data Arrived at EDR: 12/01/2020
Date Made Active in Reports: 02/12/2021
Number of Days to Update: 73

Source: State Water Resources Control Board
Telephone: 866-794-4977
Last EDR Contact: 05/19/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Varies

CERS: CalEPA Regulated Site Portal Data

The CalEPA Regulated Site Portal database combines data about environmentally regulated sites and facilities in California into a single database. It combines data from a variety of state and federal databases, and provides an overview of regulated activities across the spectrum of environmental programs for any given location in California. These activities include hazardous materials and waste, state and federal cleanups, impacted ground and surface waters, and toxic materials

Date of Government Version: 01/20/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: California Environmental Protection Agency
Telephone: 916-323-2514
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

NON-CASE INFO: Non-Case Information Sites (GEOTRACKER)

Non-Case Information sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

OTHER OIL GAS: Other Oil & Gas Projects Sites (GEOTRACKER)

Other Oil & Gas Projects sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PROD WATER PONDS: Produced Water Ponds Sites (GEOTRACKER)

Produced water ponds sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

SAMPLING POINT: Sampling Point ? Public Sites (GEOTRACKER)

Sampling point - public sites

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

WELL STIM PROJ: Well Stimulation Project (GEOTRACKER)
Includes areas of groundwater monitoring plans, a depiction of the monitoring network, and the facilities, boundaries, and subsurface characteristics of the oilfield and the features (oil and gas wells, produced water ponds, UIC wells, water supply wells, etc?) being monitored

Date of Government Version: 03/08/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/30/2021
Number of Days to Update: 21
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Varies

PCS: Permit Compliance System
PCS is a computerized management information system that contains data on National Pollutant Discharge Elimination System (NPDES) permit holding facilities. PCS tracks the permit, compliance, and enforcement status of NPDES facilities.

Date of Government Version: 07/14/2011
Date Data Arrived at EDR: 08/05/2011
Date Made Active in Reports: 09/29/2011
Number of Days to Update: 55
Source: EPA, Office of Water
Telephone: 202-564-2496
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

PCS INACTIVE: Listing of Inactive PCS Permits
An inactive permit is a facility that has shut down or is no longer discharging.

Date of Government Version: 11/05/2014
Date Data Arrived at EDR: 01/06/2015
Date Made Active in Reports: 05/06/2015
Number of Days to Update: 120
Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

PCS ENF: Enforcement data
No description is available for this data

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 02/05/2015
Date Made Active in Reports: 03/06/2015
Number of Days to Update: 29
Source: EPA
Telephone: 202-564-2497
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

MINES MRDS: Mineral Resources Data System
Mineral Resources Data System

Date of Government Version: 04/06/2018
Date Data Arrived at EDR: 10/21/2019
Date Made Active in Reports: 10/24/2019
Number of Days to Update: 3
Source: USGS
Telephone: 703-648-6533
Last EDR Contact: 05/27/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Varies

HWTS: Hazardous Waste Tracking System
DTSC maintains the Hazardous Waste Tracking System that stores ID number information since the early 1980s and manifest data since 1993. The system collects both manifest copies from the generator and destination facility.

Date of Government Version: 04/08/2021
Date Data Arrived at EDR: 04/09/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 11
Source: Department of Toxic Substances Control
Telephone: 916-324-2444
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historical Auto Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historical Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

CS ALAMEDA: Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 01/09/2019
Date Data Arrived at EDR: 01/11/2019
Date Made Active in Reports: 03/05/2019
Number of Days to Update: 53

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

UST ALAMEDA: Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 03/17/2021
Date Data Arrived at EDR: 03/18/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 7

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 03/17/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA AMADOR: CUPA Facility List

Cupa Facility List

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA BUTTE: CUPA Facility Listing

Cupa facility list.

Date of Government Version: 04/21/2017
Date Data Arrived at EDR: 04/25/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 106

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA CALVERAS: CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/24/2020
Number of Days to Update: 8

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA COLUSA: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/06/2020
Date Data Arrived at EDR: 04/23/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 78

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

SL CONTRA COSTA: Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 01/25/2021
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 80

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 04/20/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA DEL NORTE: CUPA Facility List
Cupa Facility list

Date of Government Version: 12/17/2020
Date Data Arrived at EDR: 01/28/2021
Date Made Active in Reports: 04/16/2021
Number of Days to Update: 78

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA EL DORADO: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA FRESNO: CUPA Resources List
Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 01/14/2021
Date Data Arrived at EDR: 01/15/2021
Date Made Active in Reports: 04/05/2021
Number of Days to Update: 80

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA GLENN: CUPA Facility List
Cupa facility list

Date of Government Version: 01/22/2018
Date Data Arrived at EDR: 01/24/2018
Date Made Active in Reports: 03/14/2018
Number of Days to Update: 49

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: No Update Planned

HUMBOLDT COUNTY:

CUPA HUMBOLDT: CUPA Facility List
CUPA facility list.

Date of Government Version: 05/17/2021
Date Data Arrived at EDR: 05/18/2021
Date Made Active in Reports: 05/20/2021
Number of Days to Update: 2

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/10/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Semi-Annually

IMPERIAL COUNTY:

CUPA IMPERIAL: CUPA Facility List
Cupa facility list.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

INYO COUNTY:

CUPA INYO: CUPA Facility List
Cupa facility list.

Date of Government Version: 04/02/2018
Date Data Arrived at EDR: 04/03/2018
Date Made Active in Reports: 06/14/2018
Number of Days to Update: 72

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

KERN COUNTY:

CUPA KERN: CUPA Facility List
A listing of sites included in the Kern County Hazardous Material Business Plan.

Date of Government Version: 10/29/2020
Date Data Arrived at EDR: 10/30/2020
Date Made Active in Reports: 01/15/2021
Number of Days to Update: 77

Source: Kern County Public Health
Telephone: 661-321-3000
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

UST KERN: Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/21/2021
Date Made Active in Reports: 01/28/2021
Number of Days to Update: 7

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA KINGS: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 12/03/2020
Date Data Arrived at EDR: 01/26/2021
Date Made Active in Reports: 04/14/2021
Number of Days to Update: 78

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

LAKE COUNTY:

CUPA LAKE: CUPA Facility List
Cupa facility list

Date of Government Version: 02/10/2021
Date Data Arrived at EDR: 02/12/2021
Date Made Active in Reports: 03/11/2021
Number of Days to Update: 27

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA LASSEN: CUPA Facility List
Cupa facility list

Date of Government Version: 07/31/2020
Date Data Arrived at EDR: 08/21/2020
Date Made Active in Reports: 11/09/2020
Number of Days to Update: 80

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

LOS ANGELES COUNTY:

AOCONCERN: Key Areas of Concerns in Los Angeles County
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office. Date of Government Version: 3/30/2009 Exide Site area is a cleanup plan of lead-impacted soil surrounding the former Exide Facility as designated by the DTSC. Date of Government Version: 7/17/2017

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206

Source: N/A
Telephone: N/A
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: No Update Planned

HMS LOS ANGELES: HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 01/11/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 72

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/05/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Semi-Annually

LF LOS ANGELES: List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 01/11/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/26/2021
Number of Days to Update: 73

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/13/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LF LOS ANGELES CITY: City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2021
Date Data Arrived at EDR: 02/18/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 81

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

LOS ANGELES AST: Active & Inactive AST Inventory
A listing of active & inactive above ground petroleum storage tank site locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LOS ANGELES CO LF METHANE: Methane Producing Landfills

This data was created on April 30, 2012 to represent known disposal sites in Los Angeles County that may produce and emanate methane gas. The shapefile contains disposal sites within Los Angeles County that once accepted degradable refuse material. Information used to create this data was extracted from a landfill survey performed by County Engineers (Major Waste System Map, 1973) as well as historical records from CalRecycle, Regional Water Quality Control Board, and Los Angeles County Department of Public Health

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 04/16/2021
Date Made Active in Reports: 04/21/2021
Number of Days to Update: 5

Source: Los Angeles County Department of Public Works
Telephone: 626-458-6973
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: No Update Planned

LOS ANGELES HM: Active & Inactive Hazardous Materials Inventory

A listing of active & inactive hazardous materials facility locations, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LOS ANGELES UST: Active & Inactive UST Inventory

A listing of active & inactive underground storage tank site locations and underground storage tank historical sites, located in the City of Los Angeles.

Date of Government Version: 06/01/2019
Date Data Arrived at EDR: 06/25/2019
Date Made Active in Reports: 08/22/2019
Number of Days to Update: 58

Source: Los Angeles Fire Department
Telephone: 213-978-3800
Last EDR Contact: 06/17/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

SITE MIT LOS ANGELES: Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 10/19/2020
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/26/2021
Number of Days to Update: 73

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/16/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Annually

UST EL SEGUNDO: City of El Segundo Underground Storage Tank

Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 21

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/07/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: No Update Planned

UST LONG BEACH: City of Long Beach Underground Storage Tank

Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 04/22/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/27/2019
Number of Days to Update: 65

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

UST TORRANCE: City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 09/11/2020
Date Data Arrived at EDR: 10/07/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 77

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/23/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA MADERA: CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 08/10/2020
Date Data Arrived at EDR: 08/12/2020
Date Made Active in Reports: 10/23/2020
Number of Days to Update: 72

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

MARIN COUNTY:

UST MARIN: Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 09/26/2018
Date Data Arrived at EDR: 10/04/2018
Date Made Active in Reports: 11/02/2018
Number of Days to Update: 29

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Semi-Annually

MENDOCINO COUNTY:

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 12/21/2020
Date Data Arrived at EDR: 12/21/2020
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 79

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: Annually

MERCED COUNTY:

CUPA MERCED: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/04/2021
Date Data Arrived at EDR: 02/09/2021
Date Made Active in Reports: 02/18/2021
Number of Days to Update: 9

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

MONO COUNTY:

CUPA MONO: CUPA Facility List
CUPA Facility List

Date of Government Version: 02/22/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/06/3021
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA MONTEREY: CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 01/08/2021
Date Data Arrived at EDR: 01/12/2021
Date Made Active in Reports: 03/25/2021
Number of Days to Update: 72

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Varies

NAPA COUNTY:

LUST NAPA: Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

UST NAPA: Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 09/05/2019
Date Data Arrived at EDR: 09/09/2019
Date Made Active in Reports: 10/31/2019
Number of Days to Update: 52

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA NEVADA: CUPA Facility List
CUPA facility list.

Date of Government Version: 02/03/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

ORANGE COUNTY:

IND_SITE ORANGE: List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

LUST ORANGE: List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 05/03/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 9

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/29/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

UST ORANGE: List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/01/2021
Date Data Arrived at EDR: 02/02/2021
Date Made Active in Reports: 04/20/2021
Number of Days to Update: 77

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

PLACER COUNTY:

MS PLACER: Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 05/25/2021
Date Data Arrived at EDR: 05/26/2021
Date Made Active in Reports: 06/01/2021
Number of Days to Update: 6

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA PLUMAS: CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 03/31/2019
Date Data Arrived at EDR: 04/23/2019
Date Made Active in Reports: 06/26/2019
Number of Days to Update: 64

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

RIVERSIDE COUNTY:

LUST RIVERSIDE: Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Quarterly

UST RIVERSIDE: Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 03/10/2021
Number of Days to Update: 55

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 06/07/2021
Next Scheduled EDR Contact: 09/26/2021
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

CS SACRAMENTO: Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 03/30/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 03/31/2021
Next Scheduled EDR Contact: 07/12/2021
Data Release Frequency: Quarterly

ML SACRAMENTO: Master Hazardous Materials Facility List
Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 02/24/2020
Date Data Arrived at EDR: 03/31/2020
Date Made Active in Reports: 06/17/2020
Number of Days to Update: 78

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 06/23/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA SAN BENITO: CUPA Facility List
Cupa facility list

Date of Government Version: 04/28/2021
Date Data Arrived at EDR: 04/29/2021
Date Made Active in Reports: 05/03/2021
Number of Days to Update: 4

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

PERMITS SAN BERNARDINO: Hazardous Material Permits
This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 05/19/2021
Date Data Arrived at EDR: 05/19/2021
Date Made Active in Reports: 06/07/2021
Number of Days to Update: 19

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/03/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

HMMD SAN DIEGO: Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 03/02/2021
Date Data Arrived at EDR: 03/03/2021
Date Made Active in Reports: 05/21/2021
Number of Days to Update: 79

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 05/28/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

LF SAN DIEGO: Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 10/01/2020
Date Data Arrived at EDR: 11/23/2020
Date Made Active in Reports: 02/08/2021
Number of Days to Update: 77

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

SAN DIEGO CO LOP: Local Oversight Program Listing

A listing of all LOP release sites that are or were under the County of San Diego's jurisdiction. Included are closed or transferred cases, open cases, and cases that did not have a case type indicated. The cases without a case type are mostly complaints; however, some of them could be LOP cases.

Date of Government Version: 07/14/2020
Date Data Arrived at EDR: 07/16/2020
Date Made Active in Reports: 09/29/2020
Number of Days to Update: 75

Source: Department of Environmental Health
Telephone: 858-505-6874
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

SAN DIEGO CO SAM: Environmental Case Listing

The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24

Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

CUPA SAN FRANCISCO CO: CUPA Facility Listing

Cupa facilities

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: San Francisco County Department of Environmental Health
Telephone: 415-252-3896
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

LUST SAN FRANCISCO: Local Oversite Facilities

A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: No Update Planned

UST SAN FRANCISCO: Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/11/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

UST SAN JOAQUIN: San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 06/22/2018
Date Data Arrived at EDR: 06/26/2018
Date Made Active in Reports: 07/11/2018
Number of Days to Update: 15

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 06/08/2021
Next Scheduled EDR Contact: 09/27/2021
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA SAN LUIS OBISPO: CUPA Facility List
Cupa Facility List.

Date of Government Version: 05/07/2021
Date Data Arrived at EDR: 05/11/2021
Date Made Active in Reports: 05/14/2021
Number of Days to Update: 3

Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 05/06/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SAN MATEO COUNTY:

BI SAN MATEO: Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 02/20/2020
Date Data Arrived at EDR: 02/20/2020
Date Made Active in Reports: 04/24/2020
Number of Days to Update: 64

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/10/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

LUST SAN MATEO: Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/29/2019
Date Data Arrived at EDR: 03/29/2019
Date Made Active in Reports: 05/29/2019
Number of Days to Update: 61

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/02/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA SANTA BARBARA: CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28

Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: No Update Planned

SANTA CLARA COUNTY:

CUPA SANTA CLARA: Cupa Facility List
Cupa facility list

Date of Government Version: 02/24/2021
Date Data Arrived at EDR: 02/26/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 82

Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

HIST LUST SANTA CLARA: HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LUST SANTA CLARA: LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/18/2021
Next Scheduled EDR Contact: 09/06/2021
Data Release Frequency: No Update Planned

SAN JOSE HAZMAT: Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/03/2020
Date Data Arrived at EDR: 11/05/2020
Date Made Active in Reports: 01/26/2021
Number of Days to Update: 82

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/21/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA SANTA CRUZ: CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA SHASTA: CUPA Facility List
Cupa Facility List.

Date of Government Version: 06/15/2017
Date Data Arrived at EDR: 06/19/2017
Date Made Active in Reports: 08/09/2017
Number of Days to Update: 51

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/12/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Varies

SOLANO COUNTY:

LUST SOLANO: Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 06/04/2019
Date Data Arrived at EDR: 06/06/2019
Date Made Active in Reports: 08/13/2019
Number of Days to Update: 68

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Quarterly

UST SOLANO: Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/23/2021
Date Data Arrived at EDR: 03/25/2021
Date Made Active in Reports: 06/10/2021
Number of Days to Update: 77

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 09/12/2021
Data Release Frequency: Quarterly

SONOMA COUNTY:

CUPA SONOMA: Cupa Facility List
Cupa Facility list

Date of Government Version: 12/15/2020
Date Data Arrived at EDR: 12/16/2020
Date Made Active in Reports: 12/23/2020
Number of Days to Update: 7

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Varies

LUST SONOMA: Leaking Underground Storage Tank Sites
A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 04/01/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 06/15/2021
Next Scheduled EDR Contact: 10/04/2021
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA STANISLAUS: CUPA Facility List
Cupa facility list

Date of Government Version: 02/09/2021
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 05/05/2021
Number of Days to Update: 83

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 04/21/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Varies

SUTTER COUNTY:

UST SUTTER: Underground Storage Tanks
Underground storage tank sites located in Sutter county.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/02/2021
Date Made Active in Reports: 05/19/2021
Number of Days to Update: 78

Source: Sutter County Environmental Health Services
Telephone: 530-822-7500
Last EDR Contact: 05/25/2021
Next Scheduled EDR Contact: 09/13/2021
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA TEHAMA: CUPA Facility List
Cupa facilities

Date of Government Version: 01/13/2021
Date Data Arrived at EDR: 01/14/2021
Date Made Active in Reports: 04/06/2021
Number of Days to Update: 82

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA TRINITY: CUPA Facility List
Cupa facility list

Date of Government Version: 01/19/2021
Date Data Arrived at EDR: 01/20/2021
Date Made Active in Reports: 04/08/2021
Number of Days to Update: 78

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

TULARE COUNTY:

CUPA TULARE: CUPA Facility List
Cupa program facilities

Date of Government Version: 02/02/2021
Date Data Arrived at EDR: 02/04/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 78

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 04/27/2021
Next Scheduled EDR Contact: 08/16/2021
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA TUOLUMNE: CUPA Facility List
Cupa facility list

Date of Government Version: 04/23/2018
Date Data Arrived at EDR: 04/25/2018
Date Made Active in Reports: 06/25/2018
Number of Days to Update: 61

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/14/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Varies

VENTURA COUNTY:

BWT VENTURA: Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/28/2020
Date Data Arrived at EDR: 01/29/2021
Date Made Active in Reports: 04/22/2021
Number of Days to Update: 83
Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

LF VENTURA: Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: No Update Planned

LUST VENTURA: Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/05/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

MED WASTE VENTURA: Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 03/29/2021
Date Data Arrived at EDR: 04/21/2021
Date Made Active in Reports: 04/23/2021
Number of Days to Update: 2
Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/19/2021
Next Scheduled EDR Contact: 08/02/2021
Data Release Frequency: Quarterly

UST VENTURA: Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 03/01/2021
Date Data Arrived at EDR: 03/09/2021
Date Made Active in Reports: 03/31/2021
Number of Days to Update: 22
Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/04/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Quarterly

YOLO COUNTY:

UST YOLO: Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/26/2021
Date Data Arrived at EDR: 04/01/2021
Date Made Active in Reports: 06/23/2021
Number of Days to Update: 83
Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 06/22/2021
Next Scheduled EDR Contact: 10/11/2021
Data Release Frequency: Annually

YUBA COUNTY:

CUPA YUBA: CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 04/21/2021
Date Data Arrived at EDR: 04/22/2021
Date Made Active in Reports: 05/12/2021
Number of Days to Update: 20

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 04/24/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 10/05/2020
Date Data Arrived at EDR: 02/17/2021
Date Made Active in Reports: 05/10/2021
Number of Days to Update: 82

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/11/2021
Next Scheduled EDR Contact: 08/23/2021
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2018
Date Data Arrived at EDR: 04/10/2019
Date Made Active in Reports: 05/16/2019
Number of Days to Update: 36

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/19/2021
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/01/2019
Date Data Arrived at EDR: 04/29/2020
Date Made Active in Reports: 07/10/2020
Number of Days to Update: 72

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 04/30/2021
Next Scheduled EDR Contact: 08/09/2021
Data Release Frequency: Quarterly

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 06/30/2018
Date Data Arrived at EDR: 07/19/2019
Date Made Active in Reports: 09/10/2019
Number of Days to Update: 53

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/09/2021
Next Scheduled EDR Contact: 07/26/2021
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2019
Date Data Arrived at EDR: 02/11/2021
Date Made Active in Reports: 02/24/2021
Number of Days to Update: 13

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/13/2021
Next Scheduled EDR Contact: 08/30/2021
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 05/31/2018
Date Data Arrived at EDR: 06/19/2019
Date Made Active in Reports: 09/03/2019
Number of Days to Update: 76

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/03/2021
Next Scheduled EDR Contact: 09/20/2021
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: Endeavor Business Media
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by Endeavor Business Media. This information is provided on a best effort basis and Endeavor Business Media does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of Endeavor Business Media.

Electric Power Transmission Line Data
Source: Endeavor Business Media
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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

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GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

RCCD INC./60-ACRE PROPERTY IN ONTARIO
EUCLID AVENUE AND SCHAEFER AVENUE
ONTARIO, CA 91762

TARGET PROPERTY COORDINATES

Latitude (North):	34.003301 - 34° 0' 11.88''
Longitude (West):	117.648649 - 117° 38' 55.14''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	440099.2
UTM Y (Meters):	3762517.2
Elevation:	717 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5619074 ONTARIO, CA
Version Date:	2012
Northeast Map:	5620426 GUASTI, CA
Version Date:	2012
Southeast Map:	5640930 CORONA NORTH, CA
Version Date:	2012
Southwest Map:	5640938 PRADO DAM, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

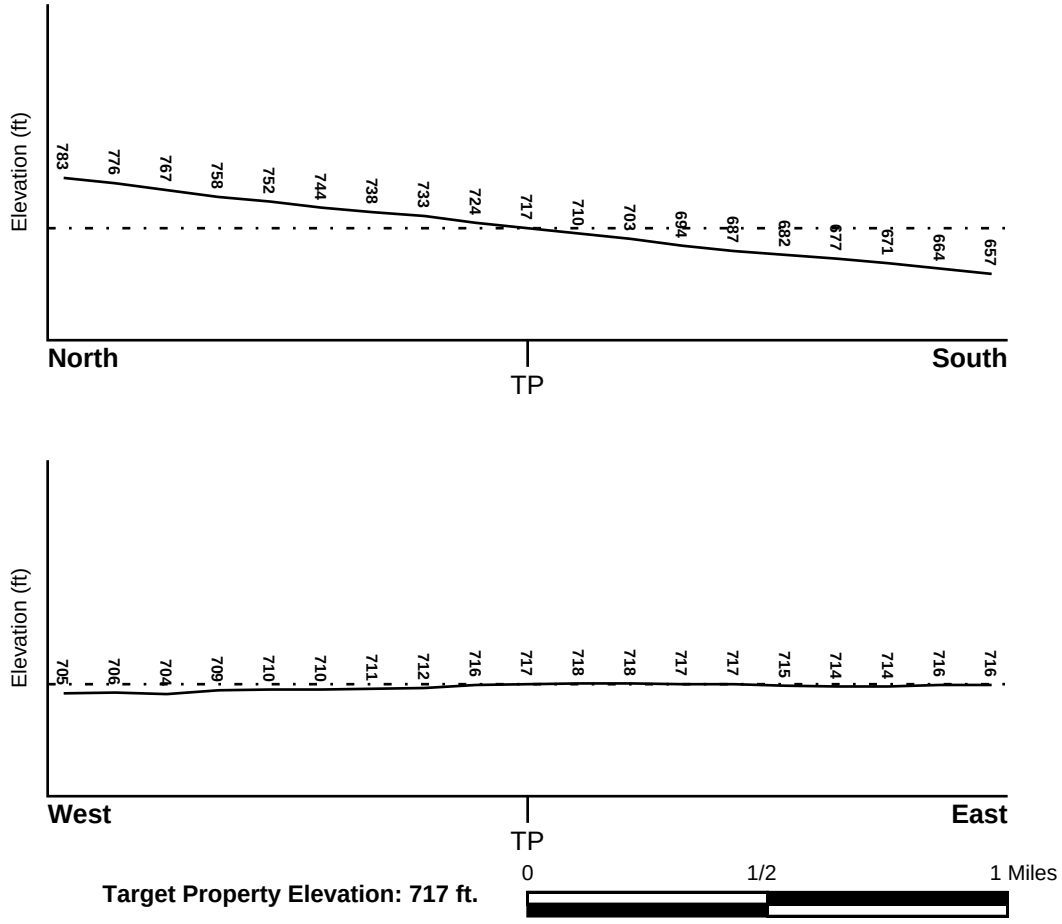
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1750F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06071C8620H	FEMA FIRM Flood data
06071C9335H	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
ONTARIO	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

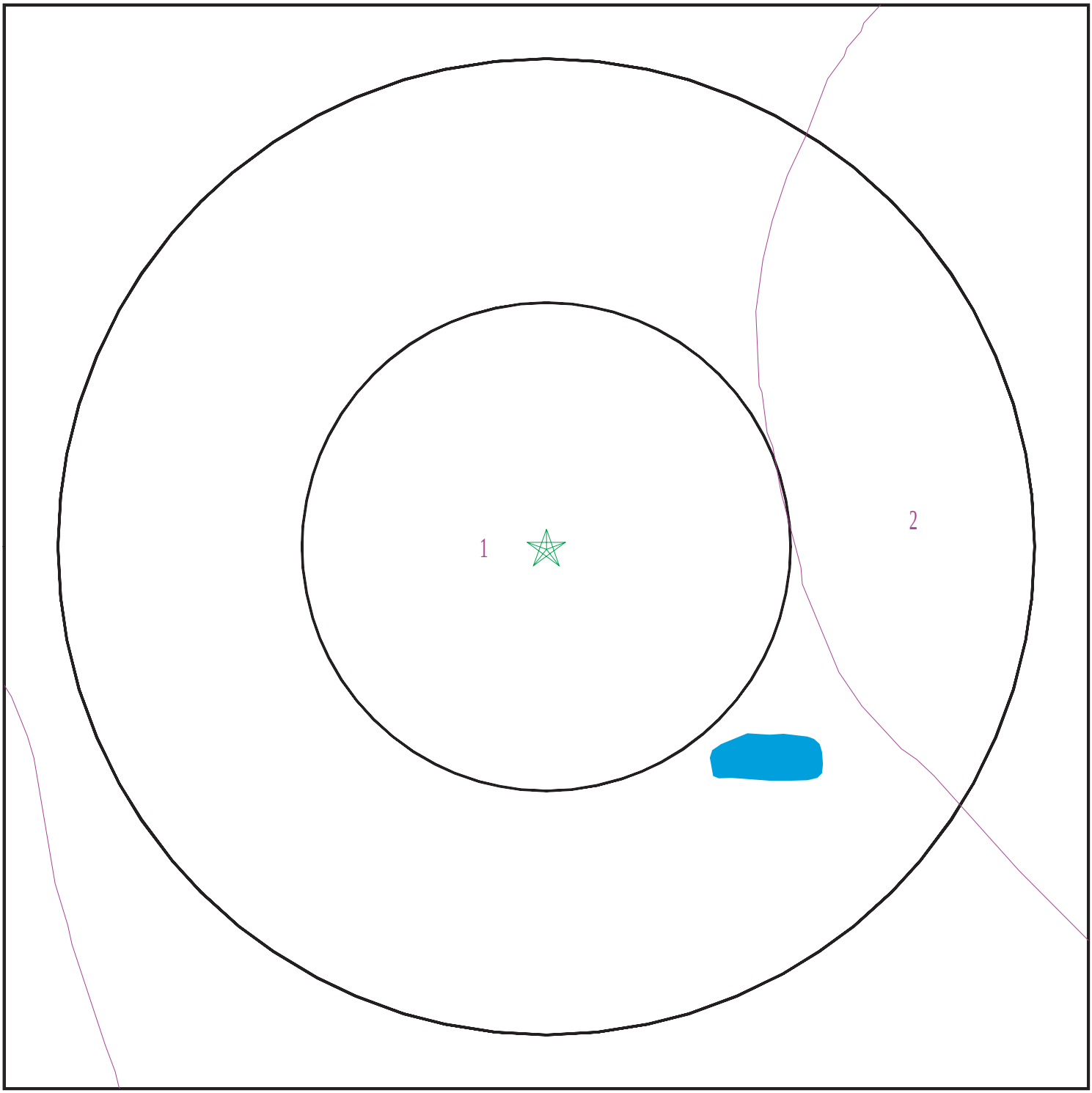
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 6550948.2s



Target Property
SSURGO Soil
Water

0 1/16 1/8 1/4 Miles

N

SITE NAME:	RCCD Inc./60-Acre Property IN Ontario	CLIENT:	Converse Consultants
ADDRESS:	Euclid Avenue and Schaefer Avenue Ontario CA 91762	CONTACT:	Kaspar Wittlinger
LAT/LONG:	34.003301 / 117.648649	INQUIRY #:	6550948.2s
		DATE:	June 24, 2021 3:00 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: HILMAR

Soil Surface Texture: loamy fine sand

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	22 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9
2	22 inches	59 inches	stratified loamy sand to loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 1.4 Min: 0.42	Max: 8.4 Min: 7.9

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 2

Soil Component Name: TUJUNGA

Soil Surface Texture: gravelly loamy sand

Hydrologic Group: Class A - High infiltration rates. Soils are deep, well drained to excessively drained sands and gravels.

Soil Drainage Class: Somewhat excessively drained

Hydric Status: Not hydric

Corrosion Potential - Uncoated Steel: Moderate

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	18 inches	gravelly loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1
2	18 inches	59 inches	loamy sand	Granular materials (35 pct. or less passing No. 200), Stone Fragments, Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 141 Min: 42	Max: 7.8 Min: 6.1

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

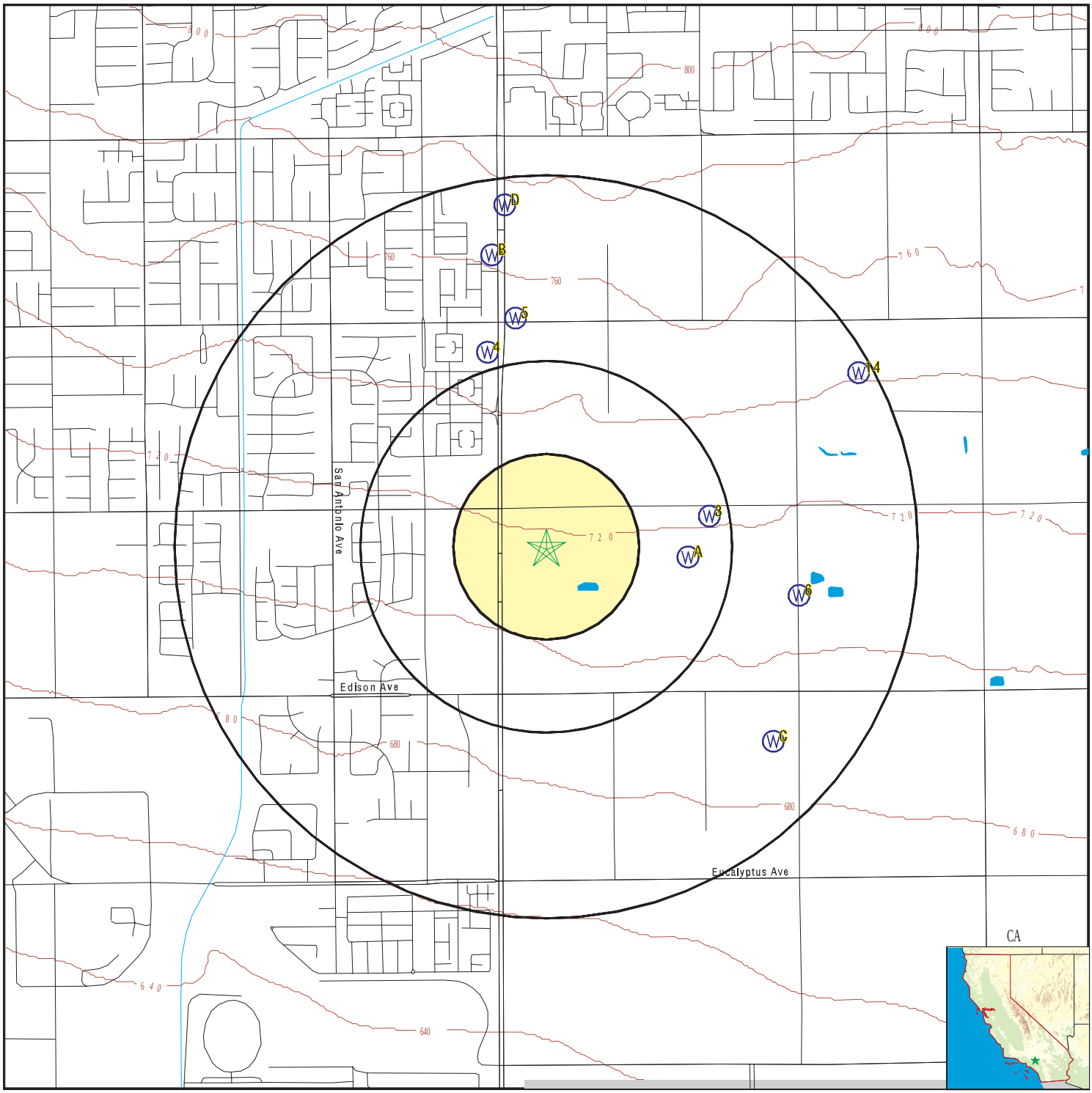
MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
A1	CADWR0000009886	1/4 - 1/2 Mile East
A2	CADWR0000011113	1/4 - 1/2 Mile East
3	CADWR9000006371	1/4 - 1/2 Mile East
4	CADDW0000018270	1/2 - 1 Mile NNW
5	2607	1/2 - 1 Mile North
6	CADDW0000001501	1/2 - 1 Mile East
B7	CADDW0000020698	1/2 - 1 Mile North
B8	CAPFAS000000689	1/2 - 1 Mile North
C9	CADWR0000009816	1/2 - 1 Mile SE
C10	CADWR0000004960	1/2 - 1 Mile SE
D11	CADDW0000016835	1/2 - 1 Mile North
D12	2604	1/2 - 1 Mile North
D13	2606	1/2 - 1 Mile North
14	CADWR0000020619	1/2 - 1 Mile ENE

PHYSICAL SETTING SOURCE MAP - 6550948.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	RCCD Inc./60-Acre Property IN Ontario	CLIENT:	Converse Consultants
ADDRESS:	Euclid Avenue and Schaefer Avenue Ontario CA 91762	CONTACT:	Kaspar Wittlinger
LAT/LONG:	34.003301 / 117.648649	INQUIRY #:	6550948.2s
		DATE:	June 24, 2021 3:00 pm

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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
A1 **East** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADWR0000009886**

Well ID:	02S07W17D002S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S07W17D002S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S07W17D002S&store_num=		
GeoTracker Data:	Not Reported		

	Database	EDR ID Number
A2 **East** **1/4 - 1/2 Mile** **Lower**	**CA WELLS**	**CADWR0000011113**

Well ID:	02S07W17D001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S07W17D001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S07W17D001S&store_num=		
GeoTracker Data:	Not Reported		

	Database	EDR ID Number
3 **East** **1/4 - 1/2 Mile** **Higher**	**CA WELLS**	**CADWR9000006371**

State Well #:	Not Reported	Station ID:	48086
Well Name:	CHINO-1208672	Basin Name:	Chino
Well Use:	Observation	Well Type:	Single Well
Well Depth:	565	Well Completion Rpt #:	e042290

	Database	EDR ID Number
4 **NNW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**CADDW0000018270**

Well ID:	3600455-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3600455-001&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

5
North
1/2 - 1 Mile
Higher

CA WELLS **2607**

Seq:	2607	Prim sta c:	02S/07W-07K01 S
Frds no:	3600455001	County:	36
District:	66	User id:	36C
System no:	3600455	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340044.0	Longitude:	1173857.0
Precision:	2	Status:	AR
Comment 1:	400 FT. S OF CHINO AVE. 300 FT. W OF EUCLID.		
Comment 2:	Not Reported	Comment 3:	Not Reported
Comment 4:	Not Reported	Comment 5:	Not Reported
Comment 6:	Not Reported	Comment 7:	Not Reported
System no:	3600455	System nam:	Best Eight Inc
Hqname:	Not Reported	Address:	Not Reported
City:	CHINO	State:	CA
Zip:	90660	Zip ext:	Not Reported
Pop serv:	25	Connection:	4
Area serve:	Not Reported		
Sample date:	10-MAR-14	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	10-JUN-13	Finding:	67.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	11-MAR-13	Finding:	60.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-DEC-12	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	18-SEP-12	Finding:	58.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	26-JUN-12	Finding:	63.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		
Sample date:	12-MAR-12	Finding:	55.
Chemical:	NITRATE (AS NO3)	Report units:	MG/L
Dlr:	2.		

6
East
1/2 - 1 Mile
Lower

CA WELLS **CADDW0000001501**

Well ID:	3610012-019	Well Type:	MUNICIPAL
Source:	Department of Health Services		

Other Name: WELL 16 GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610012-019&store_num=
GeoTracker Data: Not Reported

B7
North
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000020698**

Well ID: 3610012-024 Well Type: MUNICIPAL
Source: Department of Health Services
Other Name: WELL 18 GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610012-024&store_num=
GeoTracker Data: Not Reported

B8
North
1/2 - 1 Mile
Higher

CA WELLS **CAPFAS000000689**

Well ID: 3610012-024 Well Type: MUNICIPAL
Source: Department of Health Services
Other Name: WELL 18 GAMA PFAS Testing: Yes
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610012-024&store_num=
GeoTracker Data: Not Reported

C9
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000009816**

Well ID: 02S07W17L001S Well Type: UNK
Source: Department of Water Resources
Other Name: 02S07W17L001S GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S07W17L001S&store_num=
GeoTracker Data: Not Reported

C10
SE
1/2 - 1 Mile
Lower

CA WELLS **CADWR0000004960**

Well ID: 02S07W17L002S Well Type: UNK
Source: Department of Water Resources
Other Name: 02S07W17L002S GAMA PFAS Testing: Not Reported
Groundwater Quality Data: https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S07W17L002S&store_num=
GeoTracker Data: Not Reported

Map ID
Direction
Distance
Elevation | Database | EDR ID Number

D11
North
1/2 - 1 Mile
Higher

CA WELLS **CADDW0000016835**

Well ID:	3610059-001	Well Type:	MUNICIPAL
Source:	Department of Health Services		
Other Name:	WELL 01	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DHS&samp_date=&global_id=&assigned_name=3610059-001&store_num=		
GeoTracker Data:	Not Reported		

D12
North
1/2 - 1 Mile
Higher

CA WELLS **2604**

Seq:	2604	Prim sta c:	02S/07W-06J06 S
Frds no:	3610059001	County:	36
District:	13	User id:	TAN
System no:	3610059	Water type:	G
Source nam:	WELL 01	Station ty:	WELL/AMBNT
Latitude:	340100.0	Longitude:	1173900.0
Precision:	5	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3610059	System nam:	Samoa Village Mobile Home Ests - Ontario
Hqname:	Not Reported	Address:	PO BOX 3925
City:	ONTARIO	State:	Not Reported
Zip:	91761	Zip ext:	Not Reported
Pop serv:	279	Connection:	279
Area serve:	SAMOA VILLAGE MHP		

D13
North
1/2 - 1 Mile
Higher

CA WELLS **2606**

Seq:	2606	Prim sta c:	02S/07W-07B01 S
Frds no:	3600464001	County:	36
District:	66	User id:	36C
System no:	3600464	Water type:	G
Source nam:	WELL	Station ty:	WELL/AMBNT/MUN/INTAKE
Latitude:	340100.0	Longitude:	1173900.0
Precision:	2	Status:	AR
Comment 1:	Not Reported	Comment 2:	Not Reported
Comment 3:	Not Reported	Comment 4:	Not Reported
Comment 5:	Not Reported	Comment 6:	Not Reported
Comment 7:	Not Reported		

System no:	3600464	System nam:	West Euclid Water Co
Hqname:	Not Reported	Address:	Not Reported
City:	Not Reported	State:	Not Reported
Zip:	Not Reported	Zip ext:	Not Reported

Pop serv:	0	Connection:	0
Area serve:	Not Reported		

14
ENE
1/2 - 1 Mile
Higher

CA WELLS **CADWR0000020619**

Well ID:	02S07W08K001S	Well Type:	UNK
Source:	Department of Water Resources		
Other Name:	02S07W08K001S	GAMA PFAS Testing:	Not Reported
Groundwater Quality Data:	https://gamagroundwater.waterboards.ca.gov/gama/gamamap/public/GamaDataDisplay.asp?dataset=DWR&samp_date=&global_id=&assigned_name=02S07W08K001S&store_num=		
GeoTracker Data:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91762	19	0

Federal EPA Radon Zone for SAN BERNARDINO County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 91762

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.300 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish and Wildlife
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

OTHER STATE DATABASE INFORMATION

Groundwater Ambient Monitoring & Assessment Program
State Water Resources Control Board
Telephone: 916-341-5577
The GAMA Program is Californias comprehensive groundwater quality monitoring program. GAMA collects data by testing the untreated, raw water in different types of wells for naturally-occurring and man-made chemicals. The GAMA data includes Domestic, Monitoring and Municipal well types from the following sources, Department of Water Resources, Department of Heath Services, EDF, Agricultural Lands, Lawrence Livermore National Laboratory, Department of Pesticide Regulation, United States Geological Survey, Groundwater Ambient Monitoring and Assessment Program and Local Groundwater Projects.

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

California Oil and Gas Well Locations
Source: Dept of Conservation, Geologic Energy Management Division
Telephone: 916-323-1779
Oil and Gas well locations in the state.

California Earthquake Fault Lines
Source: California Division of Mines and Geology
The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

RADON

State Database: CA Radon
Source: Department of Public Health
Telephone: 916-210-8558
Radon Database for California

PHYSICAL SETTING SOURCE RECORDS SEARCHED

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

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Appendix F -

Regulatory Records

San Bernardino Fire Marshall

SAN BERNARDINO COUNTY FIRE DEPARTMENT

$ _____ Fi

$ _____ Ea

SUMMERHILL ART VENEGA
Facility Name

7255 SCA
Situs Address

Water/Sewer Agency

ARTEVAL
Name

800 WILSH
Mailing Address

GEORGE R.
Owner's Representative

(1) 1,000-GAL. ±

MOINE BR
Company Name

521 EAST
Mailing Address

CALIFORNIA
Workman's Comp Insuran

849229
State Contractor's License

NOTE: The State of Ca
even if all contents have
All storage tanks sl
and disposal facility (TS
nonhazardous.
For information on
Control at (800) 258-694

CHARLES
Print Name Clearly

Signature

Under Permit

Number of Tanks

Fees Current

03-19991-670 Rev. 9/99

SAN BERNARDINO COUNTY FIRE DEPARTMENT

POST THIS ~~CARD AT~~ JOB SITE

SAN BERNARDINO COUNTY FIRE DEPARTMENT/CUPA
OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 SOUTH "E" STREET
SAN BERNARDINO, CA 92415-0153

LOG # 081911-02 **JOB CARD** **№** 10326

INSTALL _____ REMOVE 1

CONSTRUCTION AND/OR REMOVAL OF UNDERGROUND STORAGE FACILITY

Site Name Summerhill Dairy
Address 7255 Schaefer Ave, Ontario
Contractor Moine Bros
Address/Phone 521 East D St, Wilmington, CA

	INSPECTION RECORD	APPROVED	DATE
FIRST INSPECTION	Excavation Clean, Approved Slope		
	Bedding		
	Holiday/Soap Test, Tanks Set X		
	Manufacturer's UL #		
	Additional Requirements		
	DO NOT BACKFILL UNTIL ABOVE APPROVED		
SECOND INSPECTION	Tank Air Test 5 PSI/30 Minutes		
	Vent/Vapor Lines		
	Products Lines 75 PSI/30 Minutes		
	Product Line Containment		
	Metal Piping Wrapped		
	Sumps, Dispenser Pans Water Test		
THIRD INSPECTION	Approved Fill Boxes		
	Concrete or AC Paving 12" Beyond		
	Leak Detectors/Monitors		
	Lockable Fluid-Tight Access for Monitoring		
	Precision Test Results		
	Dispenser Containment		
	Emergency Shut-off		
	Additional Requirements		
REQUIRED PRIOR TO OPERATING	Business Plan		
	Monitoring Plan		
	Financial Responsibility		

FINAL APPROVAL AND CURRENT OPERATING PERMITS MUST BE OBTAINED PRIOR TO PLACING THESE TANKS INTO SERVICE ($5,000.00 FINE FOR NONCOMPLIANCE)

TANK REMOVAL INSPECTION	Tank(s) Removed X	9/1/2011	
	Required Samples: 8020, 8015, MTBE, 418.1		
	Lead (pb) 7421 or ICP 6010, Metals EPA PP13		
	Additional Test Requirements		
	Removals Cannot be Finaled Until a Signed Copy of the Sample Results Have Been Received and Approved by this Department.		
	Final — Approved for Backfill		

Remarks:

FAILURE TO PROTECT AND MAINTAIN THIS CARD MAY RESULT IN JOB DELAY.
PRESERVE THIS RECORD OF INSPECTIONS.
FOR INSPECTION CALL 48 HOURS IN ADVANCE AT (909) 386-8464
THIS PERMIT EXPIRES 5/19/12

☐ PETROLEUM ☐ WASTE OIL ☐ OTHER

14-16867-670 Rev. 2/03

DISTRIBUTION: *White — County Fire Department*
Green — Contractor/Owner

tion 1

be considered hazardous

censed treatment, storage
e tank may be handled as

Services, Toxic Substance

688560
ipt Number

10326
rd Number

SAN BERNARDINO COUNTY FIRE DEPARTMENT
HAZARDOUS MATERIALS DIVISION – FIELD SERVICES/ENVIRONMENTAL PROTECTION
~~385 NORTH ARROWHEAD AVE., 2ND FLOOR~~, SAN BERNARDINO, CA 92415-0153
620 S. "E" ST. ~~(909) 387-3082 • FAX (909) 387-4323~~ (909) 386-8464

APPLICATION FOR REMOVAL OF UNDERGROUND STORAGE TANK

$ _____ First Tank

$ _____ Each Additional Tank

Number of Tanks this Application 1

JOB LOCATION

SUMMERHILL DAIRY AND ART VENEGAS DAIRY	JOHN DEJONG	(800) 468-6554
Facility Name	Contact Person	Phone No.
7255 SCHAEFER AVE.,	ONTARIO, CA	91761
Situs Address	City	Zip Code
Water/Sewer Agency	Fire	

PROPERTY OWNER

ARTEVAL OF CALIFORNIA, LLC		(213) 680-9212
Name		Phone No.
800 WILSHIRE BL., #1500,	LOS ANGELES, CA	90017
Mailing Address	City	Zip Code
GEORGE R. PHILLIPS, SR.		(213) 680-9212
Owner's Representative		Phone No.

TANK CONTENTS

(1) 1,000-GAL. ± DIESEL - STORAGE

CONTRACTOR

MOINE BROS.	VIRGIL CICORIA	(310) 830-1570
Company Name	Contact Person	Phone No.
521 EAST D STREET,	WILMINGTON, CA	90744
Mailing Address	City	Zip Code
CALIFORNIA INSURANCE CO.	#46-839402-01-01	EXP. 5/1/2012
Workman's Comp Insurance Carrier	Policy No.	
849229	C21, C61-D40 (HAZ.)	11/30/2012
State Contractor's License No.	Types of Licenses	Expiration Date

NOTE: The State of California has determined that tanks used for the storage of any hazardous or flammable substance shall be considered hazardous even if all contents have been removed.

All storage tanks shall be hauled as hazardous waste, accompanied by a state hazardous waste manifest, and taken to a licensed treatment, storage and disposal facility (TSDF); or if the tanks are triple rinsed on site and the rinsate manifested and hauled to a licensed TSDF, the tank may be handled as nonhazardous.

For information on licensed TSDFs that can accept nonrinsed tanks, contact the State of California Department of Health Services, Toxic Substance Control at (800) 258-6942.

CHARLES MOINE
Print Name Clearly

Signature

(310) 830-1570
Phone

8/19/11
Date

OFFICE USE ONLY

Under Permit ☐ No ☐ Yes

FA0000057
Establishment Number

Number of Tanks 1

Fees Current ☑ No

568
Delinquent Amount

☐ Yes

Expiration Date

496.00
Permit Fee Paid THIS Application

/ 688560
Receipt Number

4064
Check Number

8/19/11
Date Paid

Taken by

081911-02
Log Number

10326
Job Card Number

03-19991-670 Rev. 9/99

MOINE BROS.

CONTRACTOR'S LIC. NO. 849229

RECEIVED
SEP 13 2011
S.B. CO. FIRE DEPT.

UNDERGROUND TANK CLOSURE REPORT

7255 Schaefer Avenue, Ontario, CA 91761

September 7, 2011

This report describes the removal of an underground storage tank from the property at 7255 Schaefer Avenue, Ontario, California. The tank was 550 gallons in volume, was of single-wall steel construction, and was formerly used to store diesel fuel. The dispenser island was located directly over the tank, and the tank-related piping did not extend beyond the tank excavation.

The soils covering the tank were excavated and stockpiled at the site on August 31, 2011. In compliance with SCAQMD Rule 1166, SCAQMD was notified prior to beginning the excavation, and volatile organic compound (VOC) concentrations in the air were monitored as the excavation progressed.

The tank-related piping was flushed with water, disconnected, and removed, and the tank was triple-rinsed/pressure-washed in-place and removed on September 1, 2011. Residual liquids and rinse water were collected in a vacuum truck and were manifested, transported, and disposed of (recycled) off-site at a licensed TSDF. Tank atmospheric readings were taken and dry ice was placed into the tank. Upon approval of on-site County and City Fire Department on-site representatives, the tank was removed from the excavation. The tank appeared to be in very good condition with no apparent holes or cracks. The tank was loaded into a dump truck and transported off-site for destruction and recycling.

After removal of the tank from the excavation, at the direction of Angela Samayoa of San Bernardino County Fire Department, a soil sample was collected from a depth of approximately three feet beneath the tank invert, approximately 12 feet beneath the ground surface. The sample was immediately stored on ice, and was delivered to a State-certified environmental laboratory on the same day. The sample was analyzed for TPH-carbon chain (E.P.A. Method 8015M), for VOC, BETX, MTBE, and fuel oxygenates (E.P.A. 8260B), and for lead (SW846 6010B).

Soil sample analytical results are displayed in the following table:

Compounds / test method:	Concentration:
V.O.C., B.E.T.X., M.T.B.E., fuel oxygenates / E.P.A. 8260B	Not detected
T.P.H. (C5-C24) / E.P.A. 8015M	Not detected
T.P.H. (C25-C40) / E.P.A. 8015M	57 mg/Kg
Lead / SW846 6010B	12 mg/Kg

Copies of the permits, inspection record, air monitoring log, tank rinse manifest, tank certification, dry ice receipt, tank destruction certificate, site map, and soil sample analytical report are attached herewith.

Please contact me if you have questions or require anything further.

Sincerely,

Virgil Cicoria
Project Manager

521 EAST "D" STREET, WILMINGTON, CALIFORNIA 90744 • PHONE (310) 830-1570 • FAX (310) 830-1892

City of Ontario
Bureau of Fire Prevention
415 EAST B STREET
ONTARIO, CA 91764
PHONE (909) 395-2029 FAX (909)395-2585

08-22-2011

FIRE DEPARTMENT PERMIT

PERMIT NO.: FM-11-0254

BUSINESS NAME: **MOINE BROS. -- VIRGIL CICORIA**

STREET ADDRESS: **521 EAST D STREET**
WILMINGTON, CA
90744
310-830-1570

LOCATION: **7255 E SCHAEFER AV ONTA**

PERMITTED USE: **One Underground Tank Removal**

This permit is issued pursuant to the Ontario Muncipal Code and is subject to the conditions and limitations below and on any document(s) filed with the permit application. At the time of issuance, the business was in substantial compliance with the City of Ontario Fire Code regulating the permitted use. This permit shall be considered void if changes in inspected conditions occur without the written acknowledgment of the Ontario Fire Department.

ISSUED BY: D. Gamboa

DATE ISSUED: 8/22/11 EXPIRATION DATE: 11/22/11

COMMENTS:
Removal of one 1,000 gallon diesel-storage underground steel tank and related piping and dispenser island to be removed.

Contact: Virgil Cicoria -- 310-830-1570

Applicant to call the Fire Prevention Bureau at 909-395-2562 when an inspection date is scheduled with the County of San Bernardino for removal of the tank.

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, CA 92882	7255 Schaefer Avenue Ontario, Ca Project No. 100313001
Reference No(s). 283912	

Plan #: 525364 I.D.#: 168313

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	Mini Rae	Gas:	Hexane	Name:	Connie Lizarraga	Total Cubic Yds (This page)	9
Model:	Mini Rae 2000	Date	8/8/11	Company:	Ardent Env. Grou	Total Cubic Yds (To date)	9
Type	PID	By	Geotechical Svs	Phone:	951)736-5334	Removed from Site (To date)	none

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
12:30	0.3	—	—	Beginning Excavation					
12:45	0	—	—						
1:00	0	—	—						
1:15	0	—	—						
1:30	0	—	—						
1:45	0	—	—	End Excavation					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: Connie Lizarraga DATE: 8/31/2011

...pe. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

...RM HAZARDOUS ...WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
	CAC002673990	1	310 678-2500	004291182 JJK

5. Generator's Name and Mailing Address

ARTESAL OF CALIFORNIA LLC
800 WILSHIRE BLVD., SUITE 1500
LOS ANGELES, CA 90017

Generator's Phone: 213 680-9212 Attn:GEORGE PHILLIPS

Generator's Site Address (if different than mailing address)

SUMMER HILL DAIRY
7255 SCHAEFER AVENUE
ONTARIO, CA 91762

6. Transporter 1 Company Name: ADAMS SERVICES, INC. — U.S. EPA ID Number: CAR000189431

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

DEMENNO/KERDOON
2000 N. ALAMEDA STREET
COMPTON, CA 90222

Facility's Phone: 310 637-7100

U.S. EPA ID Number: CAT080013352

GENERATOR

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE LIQUID (OIL & WATER)	1	TT	250	G	241
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

1) 99% WATER, 1% OIL

AVOID EYE CONTACT & WEAR RUBBER GLOVES ERG 128
CONTRACTOR: MOORE BROS.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: X ELPIDIO VARGAS — Signature: X Elpidio Vargas — Month 09 Day 01 Year 11

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CHAD CHRISTIE — Signature: — Month 09 Day 01 Year 11

Transporter 2 Printed/Typed Name — Signature — Month Day Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: MONICA MUÑOZ — Signature: — Month 09 Day 01 Year 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

00001

TRANSPORTER'S COPY

CUPA
San Bernardino County Fire Department • Hazardous Materials Division
620 South 'E' Street, San Bernardino, CA 92415-0153 • (909) 386-8401 FAX (909) 386-8460

HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

Page of

I. FACILITY IDENTIFICATION

FACILITY ID # 3 6 0 0 1 1

BUSINESS NAME (Same as FACILITY NAME or DBA) 3
SUMMER HILL DAIRY & ART VENEGAS DAIRY

SITE ADDRESS
7255 SCHAEFER AVE.

CITY
ONTARIO

ZIP CODE
91761

TANK OWNER NAME 740
ARTEVAL OF CALIFORNIA, LLC

TANK OWNER ADDRESS 741
800 WILSHIRE Bl., SUITE 1500

TANK OWNER CITY 742 | STATE 743 | ZIP CODE 744
LOS ANGELES | CA | 90017

II. TANK CLOSURE INFORMATION

	TANK ID # (Attach additional copies of this page for more than three tanks.)		Concentration of Flammable Vapor						Concentration of Oxygen					
			Top		Center		Bottom		Top		Center		Bottom	
TANK INTERIOR ATMOSPHERE READINGS	1	745	746a: 0	746a1: 0	746b: 0	746b1: 0	746c: 0	746c1: 0	747a: 20.8	747a1: 20.8	747b: 20.8	747b1: 20.8	747c: 20.8	747c1: 20.8
	2	748	749a	749a1	749b	749b1	749c	749c1	750a	750a1	750b	750b1	750c	750c1
	3	751	752a	752a1	752b	752b1	752c	752c1	753a	753a1	753b	753b1	753c	753c1: 0

III. CERTIFICATIONS

On examination of the tank(s), I certify that the tank is visually free from product, sludge, scale (thin, flaky residual of tank contents), rinseate and debris. I further certify that the information provided herein is true and accurate to the best of my knowledge.

SIGNATURE OF CERTIFIER

NAME OF CERTIFIER *(Print)* 754
CHARLES MOINE

TITLE OF CERTIFIER 755
CONTRACTOR

CERTIFIER ADDRESS 756
521 EAST D STREET

CITY 757
WILMINGTON

PHONE 758
(310) 830-1570

DATE 759
9/1/11

CERTIFICATION TIME
9:55

STATUS OR AFFILIATION OF CERTIFYING PERSON 760

761

Check the appropriate box below to indicate the status of the certifier: 762

- ☐ a. Certified Industrial Hygienist (CIH)
- ☐ b. Certified Safety Professional (CSP)
- ☐ c. Certified Marine Chemist (CMC)
- ☐ d. Registered Environmental Health Specialist (REHS)
- ☐ e. Professional Engineer (PE)
- ☐ f. Class II Registered Environmental Assessor
- ☑ g. Contractors' State License Board licensed contractor (with hazardous substance removal certification)

TANK PREVIOUSLY HELD FLAMMABLE OR COMBUSTIBLE MATERIALS 763
(If yes, the tank interior atmosphere shall be re-checked with a combustible gas indicator prior to work being conducted on the tank).
☑ Yes ☐ No

CERTIFIER'S TANK MANAGEMENT INSTRUCTIONS FOR SCRAP DEALER, DISPOSAL FACILITY, ETC.: 764

THE TANK HAS BEEN TRIPLE-RINSED AND IS FREE OF FLAMMABLE VAPORS.
THE TANK IS SAFE TO COLD-CUT.
THE TANK IS NOT CERTIFIED FOR ENTRY.

A copy of this certificate shall accompany the tank to the recycling / disposal facility and be provided to the CUPA.
Copies shall be submitted to the owner / operator of the tank system, the removal contractor and the recycling / disposal facility.

Revised 6/11/2002

MOINE BROS.

CONTRACTORS LIC. NO. 343468

CERTIFICATE OF DESTRUCTION

On this FIRST day of SEPTEMBER (month), 20 11, empty tanks/containers (as described below) were accepted by Moine Bros. and were cut/sheared or otherwise processed for scrapping in a safe and legal manner according to standard practices.

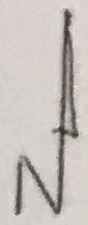
Item	Size	Description	Source
#1	550-GAL.	STEEL TANK	7255 SCHAEFER AVE., ONTARIO, CA 91761
#2			
#3			
#4			
#5			
#6			
#7			
#8			
#9			
#10			

Moine Bros. — Date: 9/1/11

521 EAST "D" STREET, WILMINGTON, CALIFORNIA 90744 • PHONE (310) 830-1570 • FAX (310) 830-1892

RTIAL SITE MAP

U.S.T. REMOVAL, 7255 SCHAEFER AVE., ONTARIO 91761



SCHAEFER AVE.

970' TO EUCLID AVE.

P.L.

DRIVEWAY

BUILDING

172'

CANOPY

CANOPY

REMOVED UST

SOIL SAMPLE A1-12' (12' B.G.S.)

REMOVED DISPENSER ISLAND

CAL TECH Environmental Laboratories

6814 Rosecrans Avenue. Paramount. CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No: CT185-1109011
Client Name: Moine Bros.
521 East "D" Street
Wilmington, CA 90744
Phone: (310) 830-1570
Fax: (310) 830-1892
Attention: Mr. Virgil Cicoria

Project ID:
Project Name: 7255 Schaefer Ave., Ontario

Date Sampled: 09/01/11 @ 11:45 am
Date Received: 09/01/11 @ 14:30 p.m.
Date Analyzed 09/01/11 – 09/02/11

Matrix: Soil
Extraction Method: 5035

Laboratory ID:	1109-011-1	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	A1-12'			
Dilution	1			
Dichlorodifluoromethane	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	EPA 8260B	mg/Kg	0.005

L Project No: CT185-1109011

Project ID:
Project Name: 7255 Schaefer Ave., Ontario

		Method	Units	Detection Limit
Laboratory ID:	1109-011-1			
Client Sample ID:	A1-12'			
1,2-Dibromoethane(EDB)	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	EPA 8260B	mg/Kg	0.1
Carbon Chain (C5~C12)	ND	EPA 8015M	mg/Kg	0.1
Carbon Chain (C13~C24)	ND	EPA 8015M	mg/Kg	1
Carbon Chain (C25~C40)	57	EPA 8015M	mg/Kg	5
Lead (Pb)	12	SW846 6010B	.mg/Kg	1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	105	70-130
1,2 Dichloromethaned4	102	70-130
Toluene-d8	93	70-130
Bromofluorobenzene	102	70-130

Greg Tejirian
Laboratory Director

*The results are base upon the sample received. Soil samples are not homogeneous

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 09-011 Page 1 of 1

Chain of Custody Record

Client: MOINE BROS.
Contact: VIRGIL CICORIA
Address: 521 EAST D STREET
WILMINGTON, CA 90744
Project: 7255 SCHAEFER AVE., ONTARIO
Sampled By: ELPIDIO VARGAS - Elpidio Vargas
Name/Signature

Phone: (310) 830-1570
Fax: -1892

Turn Around Time
Rush
Normal ✓

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	T.P.H. (8015) - CARBON CHAIN	VOC: BETX, MTBE, OXYGENATES (8260)	TOTAL LEAD	Comments
	(A1) @ 12' BOTTOM OF HOLE	9/1/11, 11:45 AM.	ENCORE 25-GRAM	1	ICE CHEST	SOIL	X	X	X	
	2	9/1/11,	ENCORE 25-GRAM	1	"	"	X	X	X	

Relinquished: Elpidio Vargas
Dispatched :

I hereby authorize the performance of the above indicated tests.

Date / Time:
Date / Time:
Date / Time: ~~GREG~~ 9/1/11 2:30

Received:
Carrier:
Received by lab: GREG T

Custody seal(s) in tact upon receipt by lab? YES NO NONE

PRAXAIR

FREIGHT CHARGES	NO. OF PIECES	PULLED BY

Warning: Transporting flammable gases and/or hazardous materials in an enclosed van, automobile or automobile trunk is very dangerous because it can cause a fire or explosion resulting in serious injury or death. Read cylinder label warnings, Material Safety Data Sheets (MSDSs) and/or safety booklet P-3499.

P I C K I N G T I C K E T

Sold by: PRAXAIR DISTRIBUTION INC
2006 EAST 223RD STREET
LONG BEACH CA 90810
(310) 816-9397

Cust # : CW839

Ship to: MOINE BROS *MMS*
DRY ICE ONLY
521 EAST D ST
WILMINGTON CA 90744
310-830-1570

Order # : 17850246-00

Order Date : 08/31/11
Ship Date: 08/31/11
Page : 001 OF 001

NAME : MOINE BROS INC *MMS*
PO # :
REL# :
PHONE#: 310-830-1570

TER: 231
SLS: 253
BRN: 256

SHIP VIA: CUST PICKUP -NONE-
OTH ZONE: 60
COL/PPD : PPD&Add
ROUTE # :

UPS: 0

INITIALS: ECV
ORD TYPE: CHRG
TIME : 31-AUG-11 07:41PM
CRT : TNA4914

QTY SHIP	UNIT	HM	DESCRIPTION & HAZARD CLASS	ID NUMBER	LINE NO	ITEM NUMBER	LOC	QTY ORDER	CYLINDERS SHIP	CYLINDERS RETN	VOL/ WT	UNIT AMOUNT	EXTENDED AMOUNT
50	LB	X	CARBON DIOXIDE, SOLID, 9, PG III	UN1845	1	CD BLOCK	256	50			50 50.0		
			(DRY ICE BLOCK)										

QTY SHIP	UNIT	HM	DESCRIPTION & HAZARD CLASS	LINE NO	ITEM NUMBER	LOC	QTY ORDER	QTY BKORD	BIN LOC	WT	UNIT AMOUNT	EXTENDED AMOUNT
1	EA		HAZARDOUS MATERIAL CHARGE	2	ZZZ HM	256	1	0		.0		

Total Weight: 50.0

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

EMERGENCY RESPONSE TELEPHONE NUMBER:
CALL CHEMTREC 1-800-424-9300

Authorized Signature _____

Received by _____

DATE SHIPPED: 8/31/11

PLACARDS OFFERED:

ACCEPTED
REJECTED

CUSTOMER'S COPY

CONTINUOUS SHIPPER 3PT

SAN BERNARDINO COUNTY FIRE DEPARTMENT

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

COUNTY OF SAN BERNARDINO

MARK A. HARTWIG
Fire Chief

September 22, 2011

JOHNNY DEJONG
4265 DOVER AVE.
HANFORD CA 93230

SUBJECT: REMOVAL OF ONE UNDERGROUND STORAGE TANK AT 7255 SCHAEFER AVE, ONTARIO, CALIFORNIA

The Department has reviewed the documentation submitted by Moine Bros., dated September 12, 2011. The results of the soil sampling activity conducted on September 1, 2011 indicate that further investigation is not warranted at this time.

It is important to note that this letter cannot be construed as a release of liability for the site or declaration that the site is free from contamination. Should further projects or environmental investigations reveal additional contaminants on site you will be responsible and held liable for the investigation and remedial actions.

If you have any questions, please call me at (909) 386-8419.

ANGELA SAMAYOA, REHS
HAZARDOUS MATERIALS SPECIALIST III
HAZARDOUS MATERIALS DIVISION
UST COMPLIANCE PROGRAM

AS/ll

cc: Moine Bros.

GREGORY C. DEVEREAUX
Chief Executive Officer

Board of Supervisors
BRAD MITZELFELT.....First District
JANICE RUTHERFORD.....Second District
JOSIE GONZALES.....Fifth District
NEIL DERRY .....Third District
GARY C. OVITT.....Fourth District

UNDERGROUND STORAGE TANK REMOVAL INSPECTION FORM

DATE: 1 SEP 2011 TIME: 1130 LOG # 081911-02

FACILITY NAME: Summerhill Dairy

LOCATION: 7255 Schaefer Ave Ontario

CONTRACTOR: Pete Vargas - Moine Bros

INSPECTORS PRESENT

HAZMAT A. Samayoa FIRE Kenna Leonard - ONT

AQMD — OTHER —

	QUANTITY	HAULER	DESTINATION
TRIPLE RINSATE	250	Adams	Demenno/K
TANKS	1		Wilmington Recycl

DEGASSING CONTRACTOR

MANIFEST # 4291182 SCAQMD REFERENCE # DRY ICE USED (25 # / 1000 g) 50 lb.

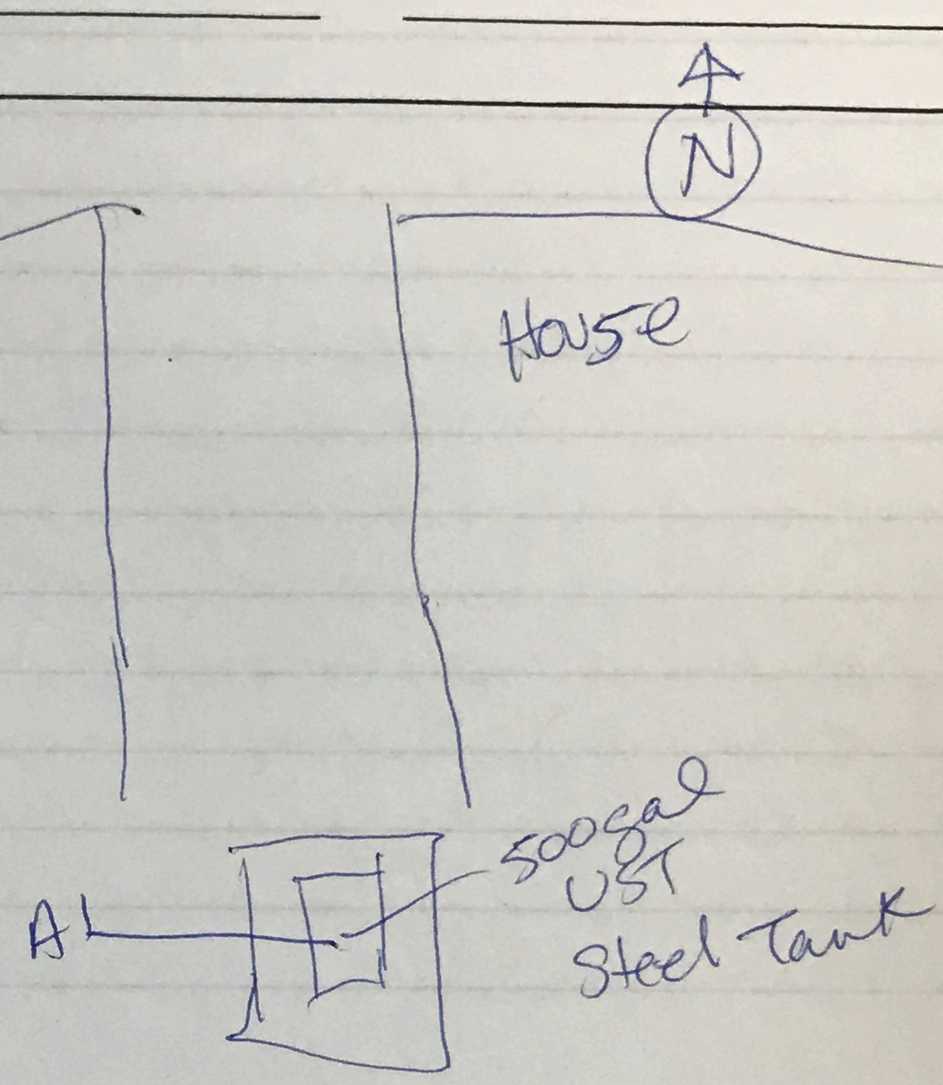
NOTES:

Cal Tech - Samples

Hours:_____ Page ____/____

TANK #	SIZE	MATERIAL HELD	UL #	APPEARANCE (RUSTY, HOLED, SOUND, ETC.)
1	500	Diesel Fuel	Not Available	Rusty

FACILITY MAP:



SAMPLE #	DATE/ TIME	DESCRIPTION (soil / odor)	LOCATION	DEPTH	EPA TEST # 'S
A1	9/1/2014 1145	dark, No odor	center of tank	2" below	8015, 8260B, Total Lead.

SAMPLES TAKEN BY Pete Vargas LABORATORY Cal Tech

CONTAINER Encore Container LABELS _____ SPLITS NO HEADSPACE _____ SEALS _____

REFRIGERATED Ice chest CHAIN OF CUSTODY yes OTHER _____

REQUIRED EPA TESTS:
Gasoline: 8020 (BTEX) or **8021B** , 8015 (TRPH - modified for gas) & MTBE 8260B, Total Lead.
Diesel: 8020 (BTEX) or **8021B** , 8015 (TRPH - modified for diesel) & MTBE
Solvents/HVO's: 8010 or **8021B**
Waste Oil: 418.1 (with 8010 or **8021B** if solvents are suspect) & CAM 17 for metals
Metals: 7030 (Cd), 7190 (Cr), 7950 (Zn), 7420 or 6010 (Pb), 7080 (As), 8080 (PCB),

USTs ≥1000 gal. require a minimum of 2 samples. One from the fill end and one from the turbine end. Also, a sample from the dispenser should be taken. Samples should be taken from at least 2' below native soil (not fill). If discoloration is noted in sidewalls, take samples there. And sample stockpiles if contamination is suspect. For piping, samples should be taken ± every 20' &

PHILLIPS LAW PARTNERS, LLP
www.phillipslawpartners.com
Email: gphillipssr@phillipslawpartners.com

June 17, 2011

VIA FACSIMILE (909) 386-8460

PHILLIPS LAW PARTNERS, LLP
F: 213 891 2910
www.phillipslawpartners.com
Fifteenth Floor
Los Angeles, CA 90017-2619

Email: gphillipssr@phillipslawpartners.com

June 17, 2011

VIA FACSIMILE (909) 386-8460
AND FIRST CLASS MAIL
Mr. Jackson Crutsinger
Hazardous Materials Specialist III
Hazardous Materials Division
OFFICE OF THE FIRE MARSHALL,
SAN BERNARDINO COUNTY FIRE DEPT
620 South "E" Street
San Bernardino, CA 92415-0153

RECEIVED
JUN 20 2011
S.B. CO. FIRE DEPT.

RE: Abandoned Underground Storage Tank(s) ("USTs")
Summerville Dairy, 7255 Schaefer Avenue
Chino, CA 91710
APN: 1053-081-03 FA0000657

Dear Mr. Crutsinger:

The undersigned law firm represents Artevel of California, LLC, the owner of the above-identified real property ("Owner"). I am responding to your letter dated May 17, 2011, which I enclose a copy for your reference.

In response to your letter, the Owner has been consulting with various general contractors and engineers regarding removing the subject USTs. The Owner expects to remove the USTs within 90 days of this letter, which falls on **September 17, 2011**.

If you have any questions or do not find the Owner's proposal acceptable, then please advise me in writing.

Sincerely,

GEORGE R. PHILLIPS

GRP:tl
Enclosure

F:\A&PDocs\ARTEVEL OF CA LLC\hazard_Materials_Division_6_17_2011.wpd

FFICE OF THE FIRE MARSHAL
ZARDOUS MATERIALS DIVISION
0 South "E" Street • San Bernardino, CA 92415-0153
9) 386-8401 • Fax (909) 386-8460

COUNTY OF SAN BERNARDINO FIRE DEPT

MARK A. HARTWIG
Fire Chief

May 17, 2011

ARTEVEL OF CALIFORNIA LLC
C/O ASTOR & PHILLIPS
800 WILSHIRE BOULEVARD, #1500
LOS ANGELES, CA 90017-2619

FA0000657
APN: 1053-081-03

SUBJECT: ABANDONED UNDERGROUND STORAGE TANK(S) (USTs)
SUMMERHILL DAIRY, 7255 SCHAEFER AVENUE.,
CHINO, CA 91710

A Department review indicates that you own property with UST(s) that do not meet the standards required by the California Health and Safety Code Sections 25284, and 25298. In order to be in compliance with applicable regulations, the UST(s) at this location must be removed, replaced or upgraded. Please submit a letter to this office no later than **June 20, 2011** stating your intent and method of compliance.

If you do not meet this deadline, this case will be referred for enforcement action including a Notice of Violation, and a Notice of Lien on the title of the property.

If you have any questions, please call me at (909) 386-8419.

Jackson Crutsinger

JACKSON CRUTSINGER, R.E.H.S.,R.H.S.P.
HAZARDOUS MATERIALS SPECIALIST III
HAZARDOUS MATERIALS DIVISION
UST/SITE REMEDIATION/LOCAL OVERSIGHT PROGRAM

GREGORY C. DEVEREAUX
Chief Executive Officer

Board of Supervisors
BRAD MITZELFELT.....First District
JANICE RUTHERFORD.....Second District
NEIL DERRY .....Third District
GARY C. OVITT.....Fourth District
JOSIE GONZALES.....Fifth District

Property Detail Report

For Property Located At

7271 SCHAEFER AVE, ONTARIO, CA 91762

CoreLogic RealQuest Professional

Owner Information:

Owner Name:	ARTEVEL OF CALIFORNIA LLC → OWNER OF TANK.
Mailing Address:	800 WILSHIRE BLVD #1500, LOS ANGELES CA 90017-2619 C018 C/O ASTOR & PHILLIPS
Phone Number:	
Vesting Codes:	/ A / SO

Location Information:

Legal Description:	RANCHO SANTA ANA DEL CHINO LOT 1 SEC 18 TP 2S R 7W EX W 333 FT THEREOF 4.05 AC M/L		
County:	SAN BERNARDINO, CA	APN:	1053-081-03-0000
Census Tract / Block:	19.00 / 4	Alternate APN:	
Township-Range-Sect:		Subdivision:	RANCHO SANTA ANA DEL CHINO
Legal Book/Page:		Map Reference:	34-B3 / 682-C2
Legal Lot:	1	Tract #:	
Legal Block:		School District:	CHINO CITY
Market Area:		Munic/Township:	
Neighbor Code:			

Owner Transfer Information:

Recording/Sale Date:	10/02/2008 / 11/28/2001	Deed Type:	QUIT CLAIM DEED
Sale Price:		1st Mtg Document #:	
Document #:	443527		

Last Market Sale Information:

Recording/Sale Date:	10/02/2008 / 11/28/2001	1st Mtg Amount/Type:	/
Sale Price:	$32,000	1st Mtg Int. Rate/Type:	/
Sale Type:	FULL	1st Mtg Document #:	
Document #:	443526	2nd Mtg Amount/Type:	/
Deed Type:	GRANT DEED	2nd Mtg Int. Rate/Type:	/
Transfer Document #:		Price Per SqFt:	
New Construction:		Multi/Split Sale:	MULTI
Title Company:	ATTORNEY ONLY		
Lender:			
Seller Name:	ELDERS PAIGE M T		

Prior Sale Information:

Prior Rec/Sale Date:	10/02/2008 / 08/14/2000	Prior Lender:	
Prior Sale Price:	$64,000	Prior 1st Mtg Amt/Type:	/
Prior Doc Number:	443524	Prior 1st Mtg Rate/Type:	/
Prior Deed Type:	GRANT DEED		

Property Characteristics:

Year Built / Eff:	/ 1965	Total Rooms/Offices:		Garage Area:	
Gross Area:		Total Restrooms:		Garage Capacity:	
Building Area:		Roof Type:		Parking Spaces:	
Tot Adj Area:		Roof Material:		Heat Type:	
Above Grade:		Construction:	WOOD	Air Cond:	
# of Stories:		Foundation:		Pool:	
Other Improvements:		Exterior wall:		Quality:	AVERAGE
		Basement Area:		Condition:	

Site Information:

Zoning:		Acres:	4.05	County Use:	DAIRY (0750)
Flood Zone:	D	Lot Area:	176,418	State Use:	
Flood Panel:	0602708620F	Lot Width/Depth:	x	Site Influence:	
Flood Panel Date:	03/18/1996	Commercial Units:		Sewer Type:	NONE
Land Use:	DAIRY FARM	Building Class:		Water Type:	PUBLIC

Tax Information:

Total Value:	$297,865	Assessed Year:	2010	Property Tax:	$1,599.97
Land Value:	$154,171	Improved %:	48%	Tax Area:	4079
Improvement Value:	$143,694	Tax Year:	2010	Tax Exemption:	
Total Taxable Value:	$297,865				

7271 SCHAEFER AVE, ONTARIO, CA 91762

For Property Located At



PHOTO 3

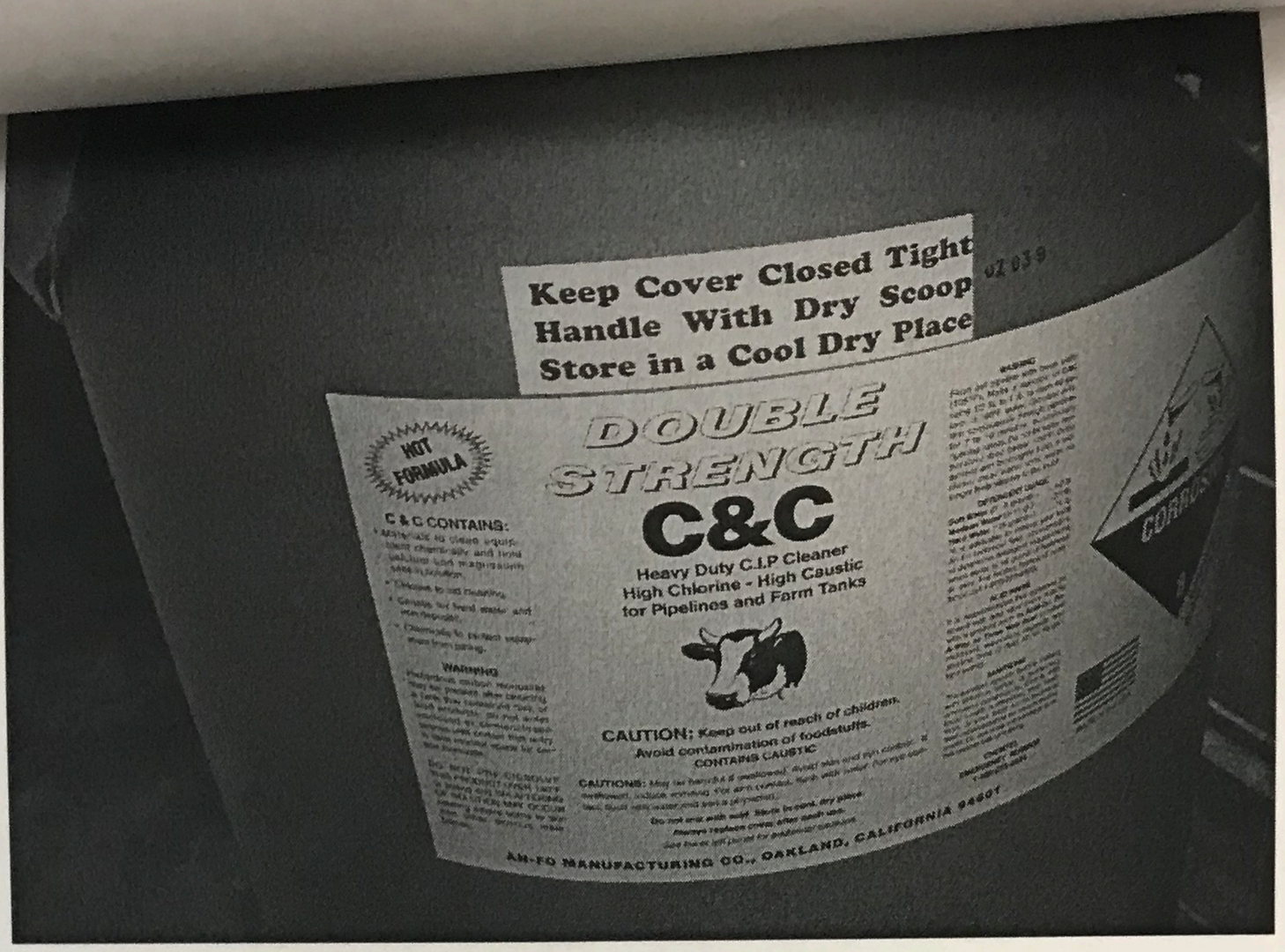
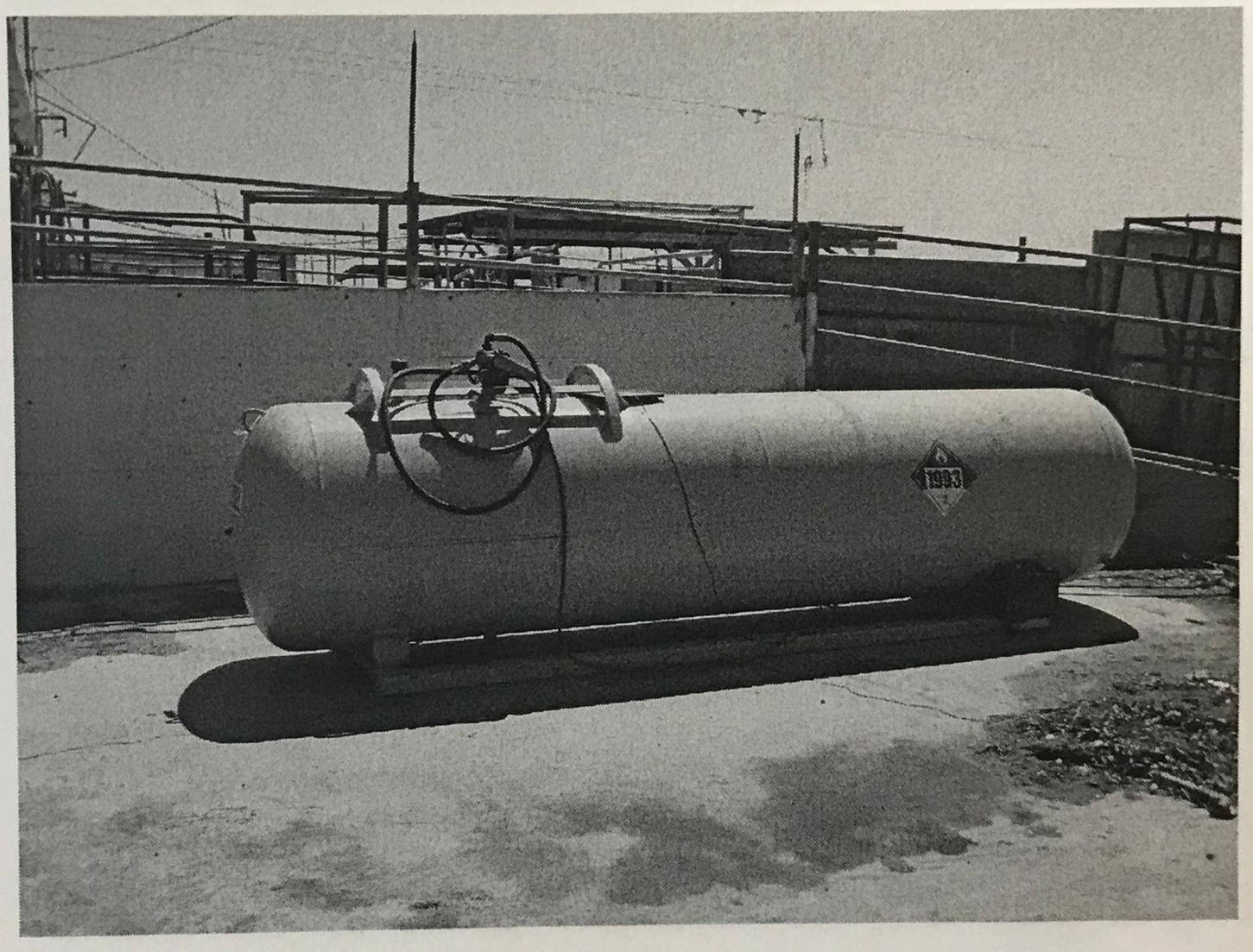


PHOTO 4



Facility/Case Name: **Summerhill Dairy** Facility ID #: **FA0000657**

Address: **7255 Schaefer, Chino Ca 91710**

3) Description: **One four hundred pound (plastic sleeved, cardboard drum) of chlorinated caustic cleaner. Drum located at the northwest end of the facility.**

4) Description: **One one thousand gallon (AST) of diesel. Area located at the southwest end of the facility's yard.**

Date Taken: **27-April-2007**

Taken By: **Shane Barbao** Signature: _____

Revised 10/12/2000

PHOTO 5



PHOTO 6



Facility/Case Name: **Summerhill Dairy**

Facility ID #: **FA0000657**

Address: **7255 Schaefer, Chino Ca 91710**

5) Description: **One five hundred gallon (AST) of diesel. Area located at the northwest end of the facility's yard.**

6) Description: **One (UST) of diesel. Facility's owner (leaser) was unaware of the (UST). To the best of his knowledge (Martin Garcia, operator) this pump was never used. The capacity of the tank was unknown to the operator.**

Date Taken: **27-April-2007**

Taken By: **Shane Barbao**

Signature: _____

FAX (909) 386-8460

UNDERGROUND STORAGE TANK INSPECTION REPORT

Facility Name: Te Velde Harm/Phillips George Kreulen Date: April 27, 2007

Street Address: 7255 Schaefer Facility No. FA0000643 ??

City: Ontario Zip Code: 90017 Program Record No. N/A

Facility Contact: Te Velde Harm/Phillips George Facility Phone No. N/A Number of Tanks: 1

Reference to Title 23 of the California Code of Regulations (CCR) and Chapter 6.7 of the Health and Safety Code (CHSC). The following code sections are either in Violation (V) of, or in Compliance (C) with, the Underground Storage Tank laws and regulations, or compliance is not applicable, not addressed or unknown (N).

GENERAL REQUIREMENTS		V	C	N
2. UST permit fees paid and current	CHSC 25287(a)			X
3. UST application package submitted (formerly Forms A&B)	CHSC 25286(a)			X
8. Failure to report change of ownership within 30 days	CHSC 25284(c)			X
6. Owner/Operator agreement available	CHSC 25284(a)(3)			X
7. Certificate of Financial Responsibility submitted	CHSC 25292.2(a)			X
0. Leak Detection/Monitoring and Response Plan	CCR 2632, 2634 or 2641(h)			X
4. UST monitoring/maintenance records available for 3 years	CHSC 25284(c)			X
2. Designated Operator Statement submitted	CCR 2715(a)			X
3. Monthly inspections completed by Designated Operator	CCR 2715(c)			X
05. Prior UST violations corrected within 30 days	CCR 2712(f)			X
10. Business Plan established and implemented	CHSC 25503.5			X
11. Business Plan submitted/updated	CHSC 25505			X
MONITORING OF UST SYSTEMS				
09. Failure to properly monitor UST	CHSC 25293			X
31. Monitoring system(s) certified annually	CCR 2638 or 2641(j)			X
34. Audible/visual alarms operational	CCR 2632(c)(2)(B) and 2636(f)(1)			X
14. Certification sticker/tag affixed to monitoring equipment	CCR 2638(f)			X
18. Sensors placed at low point of UST system(s)	CCR 2630(d) or 2641(a)			X
19. Leak detection equipment tampered with or disabled	CHSC 25299(f)(2)			X
23. Containment sump(s) free of debris/liquid	CCR 2590.21(c)(3)			X
24. Line leak detector(s) installed and functioning properly	CCR 2636(f)(2) or 2641(f)			X
33. Overspill containment installed/tested annually	CHSC 25284.2			X
27. Overfill protection device installed/operational	CCR 2635(b)(2)			X
28. Secondary containment components tested	CCR 2637(a)			X
29. UST system design, construction, and monitoring	CCR 2630 or 2640			X
UNAUTHORIZED RELEASE AND ABANDONMENT				
340. UST system operated to prevent unauthorized releases	CHSC 25292.1(a)			X
341. Failure to report unauthorized release	CHSC 25299(d)(1)			X
342. Unlawful abandonment of USTs	CHSC 25298(a)	X		
343. Unlawful closure of USTs	CHSC 25298(c)			X
344. Failure to properly temporarily close USTs	CHSC 25298(b)			X
346. Failure to upgrade or repair UST to prevent releases	CHSC 25292(d)			X
347. Unlawful deposit of fuel into a non-compliant UST	CHSC 25292.3			X
UNIFORM FIRE CODE REQUIREMENTS				
335. Emergency fuel shut-off device operational	UFC 5201.5.3			X
336. Impact valve(s) installed at dispenser(s)	UFC 5202.5.3.2			X
337. Fire extinguisher(s) present and charged	UFC 5201.9			X
338. Address clearly visible from street	UFC 901.4.4			X
OTHER REQUIREMENTS				
Significant Operational Compliance – Prevention	40 CFR Part 280			X
Significant Operational Compliance – Detection	40 CFR Part 280			X
Significant Operational Compliance – Both	40 CFR Part 280			X

NARRATIVE / CORRECTIONS

An Inspection was conducted on 27-April-2007. The purpose of the inspection was to determine the operational status of this agricultural facility and to see if any (UST) underground storage tanks exist on the Property. Martin Garcia (operator) accompanied me on The inspection.

A pre-inspection file review of the facility did not reveal any existence of an underground storage tank (UST).

During the on-site inspection, an underground storage tank (UST) of diesel was observed. Martin Garcia (operator) had no knowledge that the (UST) underground storage tank existed on the Property.

Correct the following violation(s) within 30 days:

343-Unlawful abandonment of UST. CHSC 25298(a)

Violation: Underground storage tank (UST) must be maintained when not in use.

Information regarding this UST was forwarded to the underground storage tank department.

Immediately contact the someone within the UST department at (909) 386-8401.

☒ NOTICE OF VIOLATION: THE VIOLATIONS NOTED ABOVE MUST BE CORRECTED WITHIN ____ DAYS. FAILURE TO COMPLY MAY RESULT IN LEGAL ACTION. THE CERTIFICATE OF COMPLIANCE SHALL BE SUBMITTED WITHIN THE TIME PERIOD NOTED ABOVE.

Inspector: Shane Barbao Received by: CERTIFIED MAIL Title: _____

Revised 03/08/2005

7255 SCHAEFER AVE

FA0000657



SUMMERHILL DAIRY
7255 SCHAEFER AVE
ONTARIO

FA0000657



N

1" = 32'

SCHAEFER AVE.

970' TO EUCLID AVE.

P.L.

DRIVEWAY ENTRANCE

172'

CANOPY

BUILDING

CANOPY

328' TO P.L.

ONE APPROX. 1,000-GAL. DIESEL-STORAGE UNDERGROUND STEEL TANK AND RELATED PIPING AND DISPENSER ISLAND TO BE REMOVED.

STATE OF CALIFORNIA

Contractors State License Board

Pursuant to Chapter 9 of Division 3 of the Business and Professions Code
and the Rules and Regulations of the Contractors State License Board,
the Registrar of Contractors does hereby issue this license to:

MOINE BROS

to engage in the business or act in the capacity of a contractor
in the following classification(s):

C21 - BUILDING MOVING, DEMOLITION
D40 - SERVICE STATION EQUIPMENT AND MAINTENANCE
HAZ - HAZARDOUS SUBSTANCES REMOVAL

Witness my hand and seal this day,

November 3, 2004

Issued November 2, 2004

Stephen P. Sands
Registrar of Contractors

849229
License Number

This license is the property of the Registrar of Contractors, is not transferrable, and shall be returned to the Registrar upon demand when suspended, revoked, or invalidated for any reason. It becomes void if not renewed.

AUDIT NO: 335165

State Of California
CONTRACTORS STATE LICENSE BOARD
ACTIVE LICENSE

49229 Entity PART

INE BROS

C61/D40 HAZ

/2012 www.cslb.ca.gov

SIGNATURE OF LICENSEE

SIGNATURE OF LICENSE QUALIFIER

7-01) OSP 01 59448

☐ ZERO OUT BALANCE			ORIGINAL P.E.		EFFECTIVE DATE	04/30/2011 EXPIRATION DATE	
			PR0009802 GHP OR UST ID		INACTIVE, NON-BILLAB CURRENT STATUS(BILLING)		UPDATED P.E.
☐ UPDATE ☐ INACTIVATE ☐ ZERO OUT BALANCE	PT0008914 PERMIT NUMBER.	INACTIVE PERMIT STATUS	4420-SPECIAL GENERATOR ORIGINAL P.E.		05/01/1996 EFFECTIVE DATE	04/30/1997 EXPIRATION DATE	
			PR0009801 GHP OR UST ID		INACTIVE, NON-BILLAB CURRENT STATUS(BILLING)		UPDATED P.E.
ADD NEW P.E.	4104 NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.
	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.	NEW P.E.

NUMBER OF ACTIVE UST'S 0

*Is this an operating facility that does not require permits (keep AR active and add 0202 GHP record)? (Yes) No

*Should this facility be inactivated upon verification that there is no balance due? (Yes) No

*Is this a new owner (a blue book comment is required if Q is yes and there is not a request for demand bill)? Yes (No)

*Does this 5050 have attached documents? Yes No See email

*DATE SUBMITTED: 9/27/12 DATE ENTERED: 10/1/12 FISCAL ENTRY DATE/ INITIAL:

*SUBMITTED BY: Jose May ENTERED BY: YJan ***Demand bill for updated PEs**: Yes (No)

SPECIAL INSTRUCTIONS: Information in this location will not be entered into Envision.

The goal of this request is to accurately associate a DAR entered on 9/1/11 to the appropriate Program.

PR0034400

COMMENTS/REMARKS: Only text in this area will be entered as a blue book comment. Please attach and label additional sheets needed for comments.

(1) Please add 4104 P.E.

(2) Move DAR - DA0333445 from P.E 4221 To the new P.E. 4104

(3) Inactivate 4104 once DAR has been moved.

History: Log# 081911-02 was a permit pulled to remove a UST at this facility. A UST PE was not added to FA-657. Angie Samayoa was onsite for removal and entered DAR-DA0333445 ~~For purposes of~~ to the Handler PE on 9/1/11.

Thank you! Jose May

The fields that are marked with an asterisk must be completed or the form will be returned to the requestor. The requestor is expected to **complete all fields** on this form to the best of his or her ability. Please use the Quick Submit process reasonably.

SCHAEFER AVE
ONTARIO
FA0000657

PHOTO 3

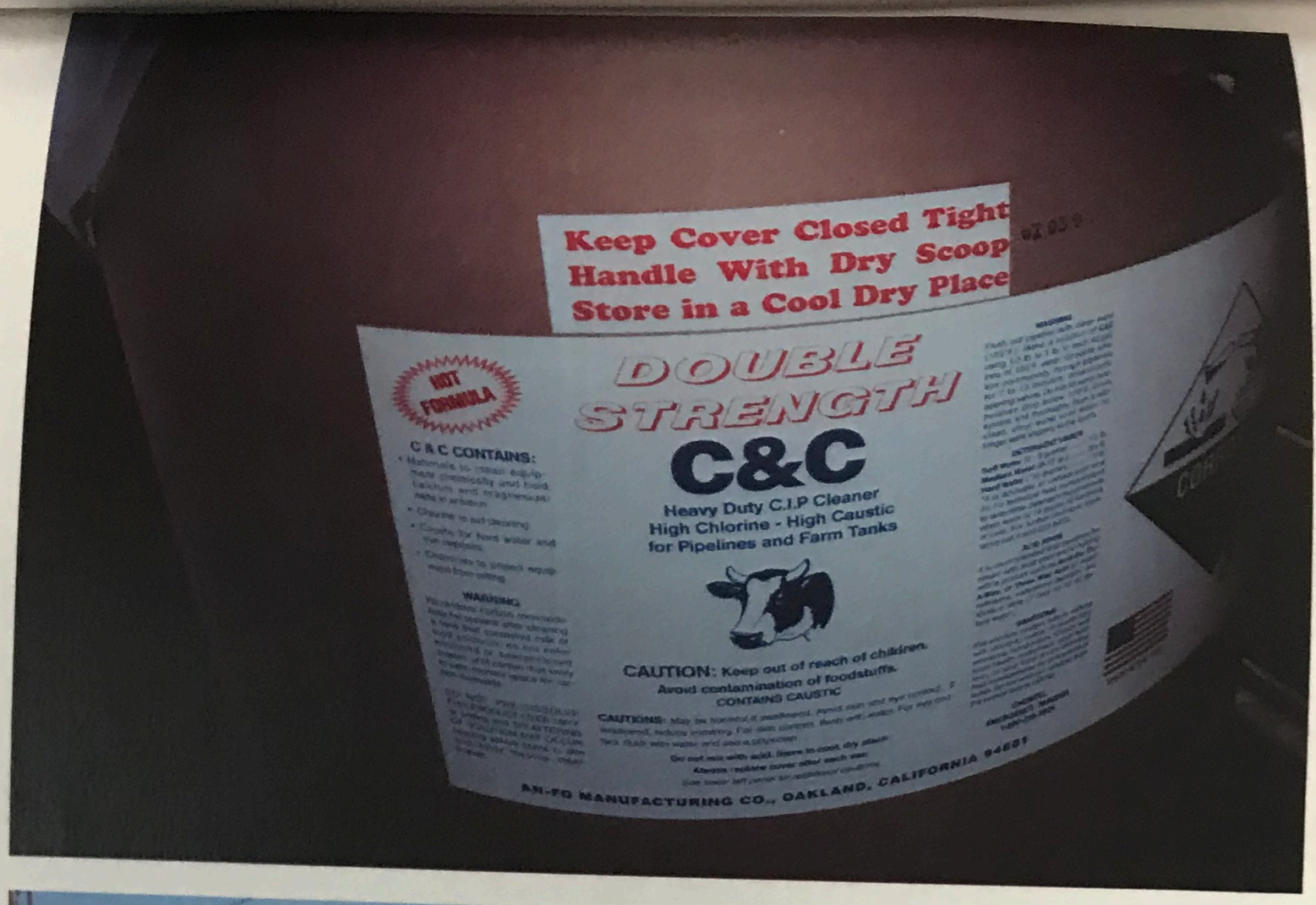


PHOTO 4



Facility/Case Name: **Summerhill Dairy**

Facility ID #: **FA0000657**

Address: **7255 Schaefer, Chino Ca 91710**

3) Description: **One four hundred pound (plastic sleeved, cardboard drum) of chlorinated caustic cleaner. Drum located at the northwest end of the facility.**

.) Description: **One one thousand gallon (AST) of diesel. Area located at the southwest end of the facility's yard.**

ate Taken: **27-April-2007**

aken By: **Shane Barbao**

Signature: Shane Barbao

sed 10/12/2000

PHOTO 5



PHOTO 6



Facility/Case Name: **Summerhill Dairy**

Facility ID #: **FA0000657**

Address: **7255 Schaefer, Chino Ca 91710**

5) Description: **One five hundred gallon (AST) of diesel. Area located at the northwest end of the facility's yard.**

6) Description: **One (UST) of diesel. Facility's owner (leaser) was unaware of the (UST). To the best of his knowledge (Martin Garcia, operator) this pump was never used. The capacity of the tank was unknown to the operator.**

Date Taken: **27-April-2007**

Taken By: **Shane Barbao**

Signature: Shane Barbao

SCAQMD Facility Equipment List Report

Facility: 144800 TONY MARTIN DAIRY
Status: Active
MR: SIC: Team: I
Last Inspection: 06/17/2020 On Hold: N
Suspended: N
TS: TS-12 Industrial Sources - Out of Business and Cha
Quarter: none - do not inspect
Contact: TONY MARTIN (909) 4651883
RECLAIM: N
TITLE V: N
AIRS ID:
Assignment: 1844415
Location Address: 13813 EUCLID AVE, CHINO 91710 Sector:EB
Inspector: KP06 KEVIN PEROZO
Mailing Address: 10185 EDISON AVE, ONTARIO 91762-7249 Sector:EE
Inspection Date: 06/17/2020
Instruction:
Disposition: Out of Business

Application No.	Permit No.	Permit Issue Date	Permit Status	Equipment Category	BCAT/CCAT Description	Application Date	Application Status
444861				021005 BCAT	AGOPS EMERGENCY ICE (50-500 HP)	06/15/2005	APPLICATION CANCELLED, FOR NON-PAYMENT OVER 1
444747				021000 BCAT	AGOPS DAIRY	06/10/2005	APPLICATION CANCELLED, FOR NON-PAYMENT OVER 1

Inspector: _____ Date: _____ Reviewed By: _____ Date: _____

SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD
INSPECTION REPORT

OFFICE NO: **8**

INSPECTOR: **EGK** PCA SYSTEM TASK NO.: **10230**

8365975001	**Art Venegas**	**Art Venegas Dairy**
WDID No.	OWNER NAME	FACILITY NAME
CAG018001	**13835 Euclid Avenue**	**13835 Euclid Avenue**
NPDES No.	OWNER ADDRESS	FACILITY ADDRESS
752320	**Ontario, CA 91762**	**Ontario, CA 91762**
Place ID	OWNER CITY, STATE & ZIP	FACILITY CITY, STATE & ZIP
10-15-15	**Art Venegas**	**Art Venegas**
Actual Date Inspected	OWNER CONTACT	FACILITY CONTACT
	951-830-7306	**951-830-7306**
	OWNER PHONE NO.	FACILITY PHONE NO.

S Inspection Agency (S=STATE, J=JOINT STATE/USEPA)

INSPECTION TYPE (Check One)

A1___ "A" type compliance--Comprehensive inspection in which samples are taken. (EPA Type S)
B1 **X** "B" type compliance--A routine nonsampling inspection. (EPA Type C)
02___ Noncompliance follow-up--Inspection made to verify correction of a previously identified violation.
03___ Enforcement follow-up--Inspection made to verify that conditions of an enforcement action are being met.
04___ **C**omplaint--Inspection made in response to a complaint.
05___ Pre-requirement--Inspection made to gather info. relative to preparing, modifying, or rescinding requirements.
06___ Miscellaneous--Any inspection type not mentioned above. If this is an EPA inspection not mentioned above please note type. (e.g. biomonitoring, performance audit, diagnostic, etc.)

N Were violations noted during this inspection? (Yes/No/Pending Sample Results)
N Was this a Quality Assurance-Based inspection?
N Were bioassay samples taken? (N=no) If YES then, S= Static or F= Flow through.
N Were water quality samples collected?

INSPECTION SUMMARY

The overall facility rating, on a 1 (unreliable) to 5 (reliable) scale, was determined to be 3 = Satisfactory.

Corral manure ~~ 3-5 inches. Several large manure piles in corrals. Pond/pasture area maintenance is adequate. South pond had been deepened and maintained. Housekeeping is marginal.

INITIALS: **EGK** SIGNATURE: Edward Kashak DATE: **6-10-16**

For Internal Use: Reviewed by: (1)_____ (2)_____ (3) Regional WDS Coordinator

CIWQS Entry Date: **6-10-16** CIWQS Inspection ID: **24771399**

HISTORICAL INFORMATION (MOST RECENT):

Order No.	Adopted Date	Permit Type	Inspect Date	Inspection Type	Inspection Violations	Inspection Violation Type	Violation Date
R8-2007-0001	/7/07	NPDES					

REVIEW OF FACILITY'S MOST RECENT ANNUAL REPORT

ANNUAL REPORT FOR: Jan 1, 2013 – Dec 31, 2013

ANIMAL POPULATION

Milk Cows: 13# Dry Cows: 19 Heifers: 28 Calves: 26 Other: 2

MANURE INFORMATION

Units used: tons

Amount of manure spread on cropland at the facility:

Amount of manure hauled away from the facility:

Name(s) and address(es) of manure destination:

ENGINEERED WASTE MANAGEMENT PLAN (EWMP) REVIEW

Did the inspector review the most recent EWMP on file? **YES**

Did the facility operator have a copy of the EWMP available onsite?

Date EWMP originally prepared:

EWMP prepared by:

Regional Board EWMP Acceptance Date:

EWMP Certification Letter Date and Source:

Was EWMP fully implemented?

If not, list structures missing or deficient:

Other information related to the EWMP:

INSPECTION OBSERVATIONS

ANIMALS ONSITE DURING INSPECTION;

Milk Cows: 150 Dry Cows: # Heifers: # Calves: Other: #

Several manure piles in some corrals. Corrals contained about 3-5 inches manure. Housekeeping in corrals was marginal. Pasture field was well maintained. Berm integrity appeared adequate. No mortalities observed. Rodent activity was minimal.

ADDITIONAL COMMENTS, SPECIAL INSTRUCTIONS, FUTURE INSPECTION FOLLOW UP ETC.
Discussion. **No further action**



10-15-15 View east at west pond area and pasture field.



10-15-15 View east at west pond area.



10-15-15 View south at pasture field area.



10-15-15 View south at east side of dairy pond area.



10-15-15 View south at east side of dairy pond area.

CALIFORNIA
Water Boards

Edmund G. Brown Jr.
Governor

Matthew Rodriquez
Secretary for
Environmental Protection

Santa Ana Regional Water Quality Control Board

Attachment 1

ACCEPTANCE OF CONDITIONAL RESOLUTION AND WAIVER OF RIGHT TO HEARING

Art Venegas Dairy
Order No. R8-2012-0033

By signing and returning this Acceptance of Conditional Resolution and Waiver of Right to Hearing (Acceptance and Order), Art Venegas Dairy hereby accepts the resolution of the mandatory minimum penalty assessments for the violations cited in the Expedited Payment Option Notice, violations of NPDES Permit No. CAG018001, for which mandatory minimum penalties shall be assessed by the Regional Board. By signing the Acceptance and Order, Art Venegas Dairy also waives its right to a hearing before the Regional Board.

Art Venegas Dairy agrees that the Expedited Payment Option Notice and Attachment 1 together will serve as a Complaint pursuant to Article 2.5 of the California Water Code (CWC) and that no separate Complaint is required by the Regional Board to assert jurisdiction over the alleged violations. Art Venegas Dairy agrees to pay the mandatory minimum penalty of $9,000 as shown in the Expedited Payment Option Notice dated April 19, 2012, which shall be deemed payment in full for the violations listed in the Notice, pursuant to CWC Section 13385.

Art Venegas Dairy understands that pursuant to 40 CFR Section 123.27(d)(2)(iii), the Regional Board is required to provide public notice for at least 30 days and seek comments of any settlement agreement with the Art Venegas Dairy related to the NPDES permit violations, prior to the Executive Officer executing any settlement agreements such as this Acceptance and Order. Art Venegas Dairy understands that if significant comments are received, this Acceptance and Order may not be executed and the offer for expedited payment and settlement may be withdrawn and the Regional Board may choose to take formal enforcement action.

Art Venegas Dairy understands that once this Acceptance and Order is executed by the Executive Officer of the Regional Board, payment is due within 30 days and a check for $9,000 made payable to the State Water Resources Control Board, for deposit in the State Water Pollution Cleanup and Abatement account, shall be submitted to the Regional Board office.

Art Venegas Dairy understands that this Acceptance and Order only addresses the violations cited in the Expedited Payment Option Notice.

I hereby affirm that I am duly authorized to act on behalf of and to bind the Art Venegas Dairy in the making and execution of this Acceptance and Order.

Arthur Venegas owner

Name and Title of the Person Signing on behalf of Art Venegas Dairy (Print)

Signature 6-5-12

Signature Date

IT IS SO ORDERED PURSUANT TO CALIFORNIA WATER CODE SECTION 13385

Signature Date

Kurt V. Berchtold, Executive Officer

Santa Ana Regional Water Quality Control Board

PROOF OF SERVICE

I served the California Regional Water Quality Control Board, Santa Ana Region, NOTICE OF VIOLATION & MANDATORY MINIMUM PENALTY upon ART VENEGAS (name of person or company) by handing copies to ART VENEGAS (name and title of person served) on MAY 7, 2012 (date) at 9:30 A.M. (time). Service was made at 13835 EUCLID AVENUE, ONTARIO, CA. (address, city, and state).

At the time of service, I was at least 18 years of age. I declare under penalty of perjury that the foregoing is true and correct, and this declaration is executed on MAY 7, 2012 (date) at 3737 MAIN STREET, STE 500 (address) RIVERSIDE, California.

Name EDWARD KASHAK

Address 3737 MAIN ST. STE 500

RIVERSIDE, CA

Telephone No. 951-782-3292

Edward Kashak
(signature)

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Santa Ana Regional Water Quality Control Board

July 16, 2012

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

Mr. Art Venegas
Art Venegas Dairy
13835 Euclid Avenue
Ontario, CA 91762

MANDATORY PENALTY COMPLAINT ORDER NO. R8-2012-0033

Mr. Venegas:

On June 5, 2012, you signed an Acceptance of Conditional Resolution and Waiver of Right to Hearing regarding mandatory minimum penalty assessment for violations of reporting requirements for your Concentrated Animal Feeding Operation. The settlement has been posted on our website for 30 days to provide the public an opportunity to comment on the proposed penalty assessment. We did not receive any public comment.

I have signed the acceptance on behalf of the Santa Ana Regional Water Quality Control Board, and it now serves as Mandatory Penalty Complaint Order No. R8-2012-0033. Please retain the enclosed copy for your records. Payment of the penalty assessments is due within 30 days. Please submit a check for $9,000, made payable to the" State Water Pollution Cleanup and Abatement Account," by August 15, 2012.

If you have any questions about this letter, please contact Stephen D. Mayville of my staff at (951) 782-4992 or (smayville@waterboards.ca.gov).

Sincerely,

Kurt Berchtold, Executive Officer
Santa Ana Regional Water Quality Control Board

Enclosure: Order No. R8-2012-0033

cc: w\enclosures (by electronic mail only):

Board Members
State Water Resources Control Board, Office of Chief Counsel – David Rice
State Water Resources Control Board, Office of Enforcement – Reed Sato
U.S. Environmental Protection Agency, Region 9 (WTR-7) – Ken Greenberg
Robert Vandenheuvel, Milk Producers Council
Pat Boldt, Milk Producers Council
Jim Griffin, Western United Dairymen

CALIFORNIA
Water Boards

EDMUND G. BROWN JR.
GOVERNOR

MATTHEW RODRIQUEZ
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Santa Ana Regional Water Quality Control Board

Attachment 1

ACCEPTANCE OF CONDITIONAL RESOLUTION AND WAIVER OF RIGHT TO HEARING

Art Venegas Dairy
Order No. R8-2012-0033

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Art Venegas Dairy agrees that the Expedited Payment Option Notice and Attachment 1 together will serve as a Complaint pursuant to Article 2.5 of the California Water Code (CWC) and that no separate Complaint is required by the Regional Board to assert jurisdiction over the alleged violations. Art Venegas Dairy agrees to pay the mandatory minimum penalty of $9,000 as shown in the Expedited Payment Option Notice dated April 19, 2012, which shall be deemed payment in full for the violations listed in the Notice, pursuant to CWC Section 13385.

Art Venegas Dairy understands that pursuant to 40 CFR Section 123.27(d)(2)(iii), the Regional Board is required to provide public notice for at least 30 days and seek comments of any settlement agreement with the Art Venegas Dairy related to the NPDES permit violations, prior to the Executive Officer executing any settlement agreements such as this Acceptance and Order. Art Venegas Dairy understands that if significant comments are received, this Acceptance and Order may not be executed and the offer for expedited payment and settlement may be withdrawn and the Regional Board may choose to take formal enforcement action.

Art Venegas Dairy understands that once this Acceptance and Order is executed by the Executive Officer of the Regional Board, payment is due within 30 days and a check for $9,000 made payable to the State Water Resources Control Board, for deposit in the State Water Pollution Cleanup and Abatement account, shall be submitted to the Regional Board office.

Art Venegas Dairy understands that this Acceptance and Order only addresses the violations cited in the Expedited Payment Option Notice.

I hereby affirm that I am duly authorized to act on behalf of and to bind the Art Venegas Dairy in the making and execution of this Acceptance and Order.

Arthur Venegas owner

Name and Title of the Person Signing on behalf of Art Venegas Dairy (Print)

[signature] 6-5-12

Signature Date

IT IS SO ORDERED PURSUANT TO CALIFORNIA WATER CODE SECTION 13385

Ktv. Bltl 7/16/12

Signature Date

Kurt V. Berchtold, Executive Officer

Santa Ana Regional Water Quality Control Board

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

CERTIFIED MAIL™



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7011 2970 0003 2495 3241

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	$

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Sent To

Street, Apt. No.; or PO Box No.

City, State, ZIP+4

MR. ART VENEGAS
ART VENEGAS DIARY
13835 EUCLID AVE
ONTARIO, CA 91762

PS Form 3800, A

CALIFORNIA
Water Boards

GAVIN NEWSOM
GOVERNOR

JARED BLUMENFELD
SECRETARY FOR
ENVIRONMENTAL PROTECTION

Santa Ana Regional Water Quality Control Board

July 15, 2019

Art Venegas
13835 Euclid Avenue
Ontario, CA 91762

DISCHARGE AUTHORIZATION FOR ART VENEGAS DAIRY, 13835 EUCLID AVENUE, ONTARIO

Dear Mr. Venegas:

Thank you for submitting a Notice of Intent to comply with the requirements of the Regional Board's General Dairy Permit (Order No. R8-2018-0001, NPDES No. CAG018001). You submitted a Notice of Intent for Art Venegas Dairy at 13835 Euclid Avenue in the City of Ontario.

In your Notice of Intent, you indicate that you intend to implement an approved Engineered Waste Management Plan (EWMP) for this facility. Our records indicate that an EWMP, dated December 2003, was approved by the Executive Officer on September 28, 2005. You also indicate that a Nutrient Management Plan was approved. Our records do not indicate that a Nutrient Management Plan has been approved for this facility.

You are hereby authorized to discharge waste from the above referenced facility in accordance with the approved EWMP and the terms and conditions specified in the General Dairy Permit. The General Dairy Permit does not authorize you to discharge waste to land unless a Nutrient Management Plan has been approved by the Executive Officer. If there is any conflict between the General Dairy Permit and the EWMP, the terms and conditions of the General Dairy Permit prevail. The General Dairy Permit includes provisions that, in summary,

1) Prohibit the land application of manure anywhere in the Santa Ana Region for disposal purposes.
2) Require all facility operators to implement an Engineered Waste Management Plan.
3) Require all manure scraped from corrals be removed from the facility within 180 days.
4) Require operators that transfer manure to a third party to provide that party with a chemical analysis of the manure.

5) Require you to inspect your facilities on at least a weekly basis and record the findings in a log form.
6) Require the tracking of all manure removed from the facility.
7) Require a level marker within each pond or impoundment (indicators on each level marker must be placed by a licensed surveyor or a qualified person).
8) Require you to submit the following reports by January 15 of each year:
   - Annual Summary Report (the form will be transmitted to you near year-end)
   - Annual Summary Report of Storm Water Management Structure Inspections (i.e. a summary from the weekly inspection logs mentioned above. The form will be transmitted to you near year-end), and
   - Manure Tracking Manifest Form.

The General Dairy Permit and forms that you will need to comply with the requirements summarized above are available at the following web site:

https://www.waterboards.ca.gov/santaana/water_issues/programs/dairies/

If you wish to terminate coverage under this general permit, please submit the Notice of Termination form as soon as possible so that we can rescind this authorization and avoid billing you the annual fee.

Should you have any questions, please contact Jawed Shami at (951) 782-3288 (Jawed.Shami@waterboards.ca.gov) or Kyle Wright at (951) 320-6370 (Kyle.Wright@waterboards.ca.gov).

Sincerely,

Hope Smythe

Hope A. Smythe
Executive Officer

cc: Betsy Hunter, Milk Producers Council
Michelle Brown, West Valley Mosquito & Vector Control District
Colin A. Kelly, Inland Empire Waterkeeper
Northwest Mosquito

CERT

7011 2970 0003 2495 3241

REGIONAL WATER
[illegible] CONTROL BOARD
7 MAIN ST 500
RIVERSIDE CA 92501

UNITED STATES POSTAGE
PITNEY BOWES
$ 005.75[0]
0003113122 JUL 16 2012
MAILED FROM ZIP CODE 92501

N/L
7/18/12
7-25
8-2

UNCLAIMED

RET

July 16, 2012

Mr. Art Venegas
Art Venegas Dairy
13835 Euclid Avenue
Ontario, CA 91762

Received
AUG 201[illegible]
CRWQCB
Santa Ana Region

9 1 7 6 2 6 6 9 2 3 5

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MR. ART VENEGAS
ART VENEGAS DIARY
13835 EUCLID AVE
ONTARIO, CA 91762

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☑ Certified Mail ☐ Express Mail
☐ Registered ☑ Return Receipt ~~for Merchandise~~
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? *(Extra Fee)* ☐ Yes

2. 7011 2970 0003 2495 3241

PS Form 3811, February 2004 Domestic Return Receipt 102595-02-M-1540

PROOF OF SERVICE

I served the California Regional Water Quality Control Board, Santa Ana Region, MANDATORY PENALTY COMPLAINT ORDER R8-2012-0033 upon ART VENEGAS (name of person or company) by handing copies to ART VENEGAS, OWNER (name and title of person served) on SEPTEMBER 10, 2012 (date) at 10:10 A.M. (time). Service was made at 13835 EUCLID AVENUE, ONTARIO, CA 91762. (address, city, and state)

At the time of service, I was at least 18 years of age. I declare under penalty of perjury that the foregoing is true and correct, and this declaration is executed on SEPTEMBER 10, 2012 (date) at 3737 MAIN ST. STE 500 (address) RIVERSIDE, CA, California.

Name EDWARD KASHAK

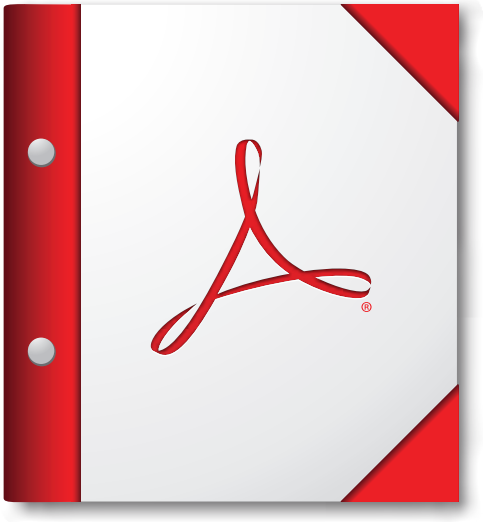
Address 3737 MAIN ST. STE 500

RIVERSIDE, CA 92501

Telephone No. 951-782-3292

Edward Kashak

(signature)



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SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD
INSPECTION REPORT

OFFICE NO: **8**

INSPECTOR: **EGK**

PCA SYSTEM TASK NO.: **10230**

8365975001	**Art Venegas**	**Art Venegas Dairy**
WDID No.	OWNER NAME	FACILITY NAME
CAG018001	**13835 Euclid Avenue**	**13835 Euclid Avenue**
NPDES No.	OWNER ADDRESS	FACILITY ADDRESS
752320	**Ontario, CA 91762**	**Ontario, CA 91762**
Place ID	OWNER CITY, STATE & ZIP	FACILITY CITY, STATE & ZIP
10-14-16	**Art Venegas**	**Art Venegas**
Actual Date Inspected	OWNER CONTACT	FACILITY CONTACT
	951-830-7306	**951-830-7306**
	OWNER PHONE NO.	FACILITY PHONE NO.

S Inspection Agency (S=STATE, J=JOINT STATE/USEPA)

INSPECTION TYPE (Check One)

A1___ "A" type compliance--Comprehensive inspection in which samples are taken. (EPA Type S)
B1 **X** "B" type compliance--A routine nonsampling inspection. (EPA Type C)
02___ Noncompliance follow-up--Inspection made to verify correction of a previously identified violation.
03___ Enforcement follow-up--Inspection made to verify that conditions of an enforcement action are being met.
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05___ Pre-requirement--Inspection made to gather info. relative to preparing, modifying, or rescinding requirements.
06___ Miscellaneous--Any inspection type not mentioned above. If this is an EPA inspection not mentioned above please note type. (e.g. biomonitoring, performance audit, diagnostic, etc.)

N Were violations noted during this inspection? (Yes/No/Pending Sample Results)
N Was this a Quality Assurance-Based inspection?
N Were bioassay samples taken? (N=no) If YES then, S= Static or F= Flow through.
N Were water quality samples collected?

INSPECTION SUMMARY

The overall facility rating, on a 1 (unreliable) to 5 (reliable) scale, was determined to be 3 = Satisfactory.

Corral manure ~~ 3-5 inches. Several large manure stockpiles in east area. Pond/pasture area maintenance is adequate. South pond had been deepened and maintained. Housekeeping is adequate.

INITIALS: **EGK** SIGNATURE: Edward Kashak DATE: **10-17-16**

For Internal Use: Reviewed by: (1)_____ (2)_____ (3) Regional WDS Coordinator

CIWQS Entry Date: **10-17-16** CIWQS Inspection ID: **26091638**

HISTORICAL INFORMATION (MOST RECENT):

Order No.	Adopted Date	Permit Type	Inspect Date	Inspection Type	Inspection Violations	Inspection Violation Type	Violation Date
R8-2007-0001	/7/07	NPDES					

REVIEW OF FACILITY'S MOST RECENT ANNUAL REPORT

ANNUAL REPORT FOR: Jan 1, 2015 – Dec 31, 2015

ANIMAL POPULATION

Milk Cows: 81 Dry Cows: 15 Heifers: 133 Calves: 23 Other:

MANURE INFORMATION

Units used: tons

Amount of manure spread on cropland at the facility: 0

Amount of manure hauled away from the facility: 704

Name(s) and address(es) of manure destination:

ENGINEERED WASTE MANAGEMENT PLAN (EWMP) REVIEW

Did the inspector review the most recent EWMP on file? **YES**

Did the facility operator have a copy of the EWMP available onsite?

Date EWMP originally prepared:

EWMP prepared by:

Regional Board EWMP Acceptance Date:

EWMP Certification Letter Date and Source:

Was EWMP fully implemented?

If not, list structures missing or deficient:

Other information related to the EWMP:

INSPECTION OBSERVATIONS

ANIMALS ONSITE DURING INSPECTION;

Milk Cows: 70 Dry Cows: 15 Heifers: 133 Calves: Other:

Several dirt piles in some corrals. Corrals contained about 3-5 inches manure. Housekeeping in corrals was marginal. Pasture field was well maintained. Berm integrity appeared adequate. No mortalities observed. Rodent activity was minimal. Other housekeeping and BMP maintenance was adequate. Northern field area is used for cropland. Pumpkins are growing at this time. Farmer is Chad Cleveland. NMP not required. The manure piles observed in the eastern area are in process of composting. Southwest pond/pasture area has minimal seasonal vegetation. Spillway has been maintained. No evidence of discharges from facility. Northeastern corral area near Drake Goat Farm has 200 – 300 heifers that are not part of Art Venegas Dairy. Drainage from these corrals flows into a southeast pond. Drainage from Art Venegas Dairy flows into the southwest pond/pasture area.

ADDITIONAL COMMENTS, SPECIAL INSTRUCTIONS, FUTURE INSPECTION FOLLOW UP ETC.
Discussion. **Follow-up required for CAFO operation in northeast corrals to determine operator.**



10-14-16 View north at north cropland area. Chad Cleveland is farming crops.



10-14-16 View south at southwest corral area. Corrals have stockpiles of a mixture of dirt and green waste.



10-14-16 View north at southwest milk barn drainage system. Flow is from top to bottom.



10-14-16 View south at southwest milk barn drainage system flow into pond/pasture area.



10-14-16 View south at southwest pond/pasture area.



10-14-16 View south along western berm of pond/pasture area.



10-14-16 View east at pond/pasture area. Washwater flows from upper left to lower right.



10-14-16 View south along western berm of pond/pasture area.



10-14-16 View north along western berm of pond/pasture area.



10-14-16 View east along southern berm of pond/pasture area.



10-14-16 View north along western berm of pond/pasture area.



10-14-16 View north at composting area for manure.



10-14-16 View south at southeast pond area.



10-14-16 View south at southeast pond area.



10-14-16 View north at northeast corral area. Dairy animals are not part of Art Venegas Dairy.



Google Earth imagery of location of unknown CAFO.

November 25, 2019

Art Venegas
Art Venegas Dairy
13835 Euclid Avenue
Ontario, CA 91762

ANNUAL REPORT OF ANIMAL WASTE DISCHARGE FOR YEAR 2019

Dear Mr. Venegas:

Your facility located at 13835 Euclid Avenue in Ontario is currently regulated under the General Waste Discharge Requirements for Concentrated Animal Feeding Operations (Dairies & Related Facilities) within the Santa Ana Region, Order No. R8-2018-0001. This Order requires you to submit an annual report, including manure manifest forms and an annual summary of weekly inspections, to this office by **January 15** of each year. The required forms are enclosed with this letter. Additional information and instructions for completing the forms are below:

1) **Annual Report of Animal Waste Discharge Form (Form 3).** This form includes pre-printed information regarding your facility. If you find any of the information to be incorrect or incomplete, please make the necessary changes directly on the form.

   The front side of the form has an area where you are to record the amount of manure that was spread on cropland at the facility. Cropland does not include pasture areas or land areas not associated with the facility. Please include the amount of manure that was spread on cropland at the facility only.

   The back of the form has an area where you are to record that you have complied with the Order's requirement to provide the recipient of manure, litter or process wastewater with the most current nutrient analysis. Also, please record if you have a Nutrient Management Plan and if it has been certified.

2) **Manure Tracking Manifest Form (Form 4).** This form includes pre-printed information regarding your facility. You are required to record the disposition of all manure hauled from your facility. A separate Manure Tracking Manifest Form must be used for each hauling event. Each hauling event may include several loads to the same destination, and therefore, may last multiple days. However, a separate form must be completed for each different destination. You can make additional copies of this form as needed. Completed forms for all hauling events that occurred during 2019 must accompany your Annual Report of Animal Waste Discharge.

3) **Annual Summary of Weekly Inspections Form (Form 2).** This form includes pre-printed information regarding your facility. This form is to be used to summarize the information that you have recorded on your Weekly Inspection Log. This form must also accompany your Annual Report of Animal Waste Discharge.

Please note that you are submitting all the above forms under the penalty of perjury.

We are also enclosing Weekly Inspections Log Sheets (Form 1) to assist you in keeping your 2019 records.

Please note that failure to submit the annual report, or a late submittal, may result in a mandatory enforcement action. Failure to submit the forms by January 15, 2020 is a violation of Order No. R8-2018-0001 and, in accordance with California Water Code Sections 13385(h) and 13385.1(a)(1), could subject you to a mandatory minimum penalty of $3,000 for each 30-day period your report is not submitted. Therefore, we encourage you to avoid this by submitting your report no later than **January 15, 2020**.

Please send the completed forms electronically at RB8-SantaAna@waterboards.ca.gov or mail the completed forms to:

California Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501-3339

Thank you for your cooperation. If you need assistance in completing the enclosed forms or have any questions, please contact Jawed Shami at (951) 782-3288 (Jawed.shami@waterboards.ca.gov) or Kyle Wright at (951) 320-6370 (Kyle.wright@waterboards.ca.gov).

Sincerely,

Adam Fischer, Chief
Inland Storm Water Unit

Enclosures: Annual Report of Animal Waste Discharge form
Manure Tracking Manifest form
Annual Summary of Weekly Inspections form
Weekly Inspections Log Sheets for 2020

cc: Milk Producers Council, Betsy Hunter-Binns, (bhunterbinns@gmail.com)
West Valley Mosquito & Vector Control District, Michelle Brown (mbrown@wvmvcd.org)
Inland Empire Waterkeeper, Colin A. Kelly, (Colin@coastkeeper.org)
Northwest Mosquito & Vector Control District, Bill Van Dyke (bvandyke@northwestmvcd.org)
U.S. EPA- R9, Office of Wastewater Management, Becky Mitschele (mitschele.becky@epa.gov)

JIS/2019AnnualReportLtr

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2018-0001, NPDES No. CAG018001)

Reporting Period: January 1, 2019 through December 31, 2019

Facility Information (Please make corrections directly on this form)	
Operator's Name:	Art Venegas
Facility Name:	Art Venegas Dairy
Facility Address:	13835 Euclid Avenue, Ontario

Instructions: Use this form to keep track of weekly visual inspections of your process wastewater and storm water containment structures. Document the findings of daily storm event inspections. List the structure items that need to be inspected below (refer to your Engineered Waste Management Plan).

Keep track of your inspections in the attached tables by completing one row each week when you inspect your process wastewater and storm water containment structures. Provide the following information: date of inspection, initials of the person performing the inspection, check "OK" box if no problems were found, use the "Notes" column to describe problems, if you find any, and how they were fixed, record the estimate of the wastewater containment pond(s) freeboard, fill in the "Date Corrected" column with the date when you corrected the problem.

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK(?)	Notes (Indicate any problems and how they were remedied.)	Waste Pond Freeboard	Date Corrected
1						
2						
3						
4						
5						
6						
7						
8						

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
9						
10						
11						
12						
13						
14						
15						
16						
17						

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
18						
19						
20						
21						
22						
23						
24						
25						
26						

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
27						
28						
29						
30						
31						
32						
33						
34						
35						

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
36						
37						
38						
39						
40						
41						
42						
43						
44						

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
45						
46						
47						
48						
49						
50						
51						
52						

Form 2. **Summary Report of Weekly Storm Water Management Structure Inspections**

(Order No. R8-2018-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2019 through December 31, 2019**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☐ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were water lines inspected daily? Yes ☐ No ☐

Were there any discharges from the facility during the year? Yes ☐ No ☐

If **Yes**, please provide: the date of discharge, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last and volume	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print):_____

Title:_____

Signature:_____

Date:_____

Form 3.

ANNUAL REPORT

Regional Water Quality Control Board
Santa Ana Region
(Order No. R8-2018-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2019 through December 31, 2019**
Report Due Date: **January 15, 2020**

FACILITY INFORMATION (Please make any corrections directly on this form)	
CAFO Operator's Name	Art Venegas
CAFO Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951)830-7306

ANIMAL POPULATION (Please provide the number of animals in each category)

Milking Cows _____ Dry Cows _____ Heifers _____ Calves _____

Others (specify type and number) _____

MANURE INFORMATION Units Used : Tons _____ Cubic Yards _____

Manure Produced _____ Manure Spread on Cropland at Facility_____

Manure Spread on Other Cropland_____

Manure Stockpiled on Site as of 12/31/19_____ _____

Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) _____

Was Manure Amount Calculated Using the Following Factors? Yes____ No ____

1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year

*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

NUTRIENT MANAGEMENT PLAN (NMP) AND NUTRIENT ANALYSIS

NMP is Certified Yes_____ No_____

Has the most current nutrient analysis been provided to the recipient of the manure?

Yes_____ No_____

CROP GROWING ACTIVITY

Number of cropland acres where manure has been applied (Cropland is contiguous to the dairy, where manure was applied and a crop was harvested).

Cropland acres:_____ No. of plantings per year: One ___ Two ___ Three ___

Type of crops grown:

Sudan grass_____ Alfalfa_____ Winter wheat_____

Barley_____ Bermuda grass_____ corn_____ Oats_____ Turf Grass_____

Vegetables_____ Others_____

Actual crop yields_____

Manure application rates_____

Amount of manure spread on each field_____

Number of Milkings per day (Dairies only): One_____ Two_____ Three_____

COMMENTS:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report **(please print)**:_____

Signature:_____

Date:_____

Title:_____

Form 4.

Manure Tracking Manifest

Regional Water Quality Control Board
Santa Ana Region
Order No. R8-2018-0001, NPDES No. CAG018001
Reporting Period: January 1, 2019 through December 31, 2019

INSTRUCTIONS:

1. Complete one manifest for each hauling event and for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, complete a separate form for each destination.
3. The CAFO operator must obtain the signature of the hauler upon completion of each manure hauling event.
4. The CAFO operator shall submit manure tracking manifest(s) with the Annual Report to Regional Board.

OPERATOR'S INFORMATION

CAFO Operator's Name: Art Venegas

CAFO Facility Name: Art Venegas Dairy

Facility Address: 13835 Euclid Avenue, Ontario

Mailing Address:

Telephone Number:

MANURE INFORMATION

Manure analyzed for nutrients: Yes ☐ No ☐

Most current nutrient analysis of manure provided to the recipient of the manure[1]: Yes ☐ No ☐

MANURE HAULER INFORMATION

Name and Address of Hauling Company:

Phone Number:

Contact Person Name:

MANURE DESTINATION INFORMATION

Hauled to (please check):

- ☐ Composting Facility
- ☐ Regional Treatment Facility
- ☐ Croplands in Riverside County
- ☐ Croplands in San Bernardino County
- ☐ Croplands in other Counties _____

Amount removed: Tons or Cubic Yards
(Please enter the amount in the box below and circle the appropriate units)

Dates Hauled:

Destination of Haul: _____

GPS Coordinates of Destination[2]
Latitude: _____
Longitude: _____

Destination Receiver of Manure: _____

Manure Quantity Delivered: _____

Approximate Acreage (If Destination is Cropland) _____

Crop(s) Grown on Cropland _____

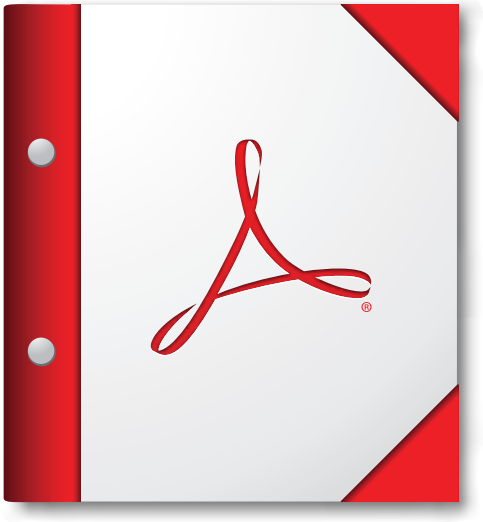
CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: _____ Date: _____

Hauler's Signature: _____ Date: _____

1. *The Regional Board may ask for a copy of manure nutrient analysis.*
2. *GPS coordinates shall be provided for all destinations within the Santa Ana Region.*



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SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD
INSPECTION REPORT

OFFICE NO: ____

INSPECTOR: KJW

PCA SYSTEM TASK NO.: ____

8365975001	**Venegas, Art**	**Art Venegas Dairy**
WDID No.	OWNER NAME	FACILITY NAME
CAG018001	**13835 Euclid Avenue**	**13835 Euclid Avenue**
NPDES No.	OWNER ADDRESS	FACILITY ADDRESS
7/22/2019	**Ontario, CA 91762**	**Ontario, CA 91762**
Sched Date	OWNER CITY, STATE & ZIP	FACILITY CITY, STATE & ZIP
7/22/2019	**Venegas, Art**	**Venegas, Art**
Actual Date Inspected	OWNER CONTACT	FACILITY CONTACT

S Inspection Agency (S=STATE, J=JOINT STATE/USEPA)

INSPECTION TYPE (Check One)

A1 ___ "A" type compliance--Comprehensive inspection in which samples are taken. (EPA Type S)

B1 ___ "B" type compliance--A routine non-sampling inspection. (EPA Type C)

02 ___ Noncompliance follow-up--Inspection made to verify correction of a previously identified violation.

03 ___ Enforcement follow-up--Inspection made to verify that conditions of an enforcement action are being met.

04 **X** **C**omplaint--Inspection made in response to a complaint.

05 ___ Pre-requirement--Inspection made to gather info. Relative to preparing, modifying, or rescinding requirements.

06 ___ Miscellaneous--Any inspection type not mentioned above. If this is an EPA inspection not mentioned above please note type. (e.g. biomonitoring, performance audit, diagnostic, etc.)

Y Were violations noted during this inspection? (Yes/No/Pending Sample Results)

___ Was this a Quality Assurance-Based inspection?

N Were bioassay samples taken? (N=no) If YES then, S= Static or F= Flow through.

INSPECTION SUMMARY (REQUIRED) (100-character limit)

INITIALS: KJW SIGNATURE: **Kyle J. Wright** DATE: **August 27, 2019**

For Internal Use: Reviewed by: (1)_____ (2)_____ (3)_____
Regional WDS Coordinator

WDS Data Entry Date: -- -- Regional Board File Number: _____

INSPECTION SUMMARY:

Regional Board staff conducted a compliance inspection on July 22, 2019. Facility is located at 13835 Euclid Avenue in the city of Ontario. During the inspection, Regional Board staff noted that the corrals showed signs of excess manure build up. Specifically, multiple stockpiles of manure noted in various areas such as a corral and outside in a what appeared to be a storage area. Regional Board staff noted smaller stockpiles to the east of the corrals. Upon closer inspection, Regional Board staff note the remains of several cows mixed in with the material.

Staff then was able to gain access to the pond area from a distance. Excess weed growth was found near the pond and limited staff from obtaining closer pictures. At distance, staff noted a pinkish tint to the containment pond. Similar conditions noted in other facilities in the area.

Regional Board staff was unable to contact dairy facility staff at time of the inspection. All violations will be addressed with the facility owner.



Figure 1: Northern corral looking west. Note the manure stockpile in the center of the photo.



Figure 2: Second corral heading south. View looking west.



Figure 3: Eastern most north corral.



Figure 4: Various stockpiles east of the northern corrals.



Figure 5: View of the containment pond looking east. note the surrounding vegetation.



Figure 6: Containment pond looking to the south.



Figure 7: Cow remains in the northern stockpiles. Note the yellow ear tag.



Figure 8: Additional cow remains.



Figure 9: Deceased cow remains.



Figure 10: stockpile location to which the cow remains were found.

Santa Ana Regional Water Quality Control Board

April 10, 2012

Certified Mail

Return Receipt Requested

Art Venegas
Art Venegas Dairy
13835 Euclid Avenue
Ontario, CA 91762
WDID 8365975001

NOTICE OF VIOLATION - DELINQUENT ANNUAL REPORT OF ANIMAL WASTE DISCHARGE FOR YEAR 2011

Mr. Venegas:

On November 22, 2011, you were sent a letter reminding you of the requirement contained in the General Dairy Permit (Order No. R8-2007-0001 under which you are permitted) to submit an annual report, including manure manifest forms and an annual summary of weekly inspections for your facility. In that letter you were also informed that failure to submit these documents is a violation of Order No. R8-2007-0001, and in accordance with California Water Code Section 13385, you would be subject to a mandatory minimum penalty of $3,000 for each 30-day period your report is not submitted. The first 30 day period ended on February 15, 2012, and the second 30-day period ended on March 16, 2012.

On March 13, 2012, Regional Board staff contacted you regarding your delinquent Annual Report and informed you that you are subject to penalties for not submitting your Annual Report. At your request, staff sent you an electronic copy of the Annual Report forms. As of this date we have not received your annual report form, manure manifest forms, or annual summary of inspections. Since your Annual Report is now delinquent for two 30-day periods, you are currently subject to the mandatory minimum penalty of $6,000. Please be advised that you will be assessed a **$3,000 penalty for each additional 30 day period** that your annual report is delinquent. Therefore, we encourage you to immediately complete and mail (or fax to 951-781-6288) the Annual Report form(s) to:

California Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501-3339

If you have any questions, please contact me at (951) 782-4992 (by e-mail to: smayville@waterboards.ca.gov), or you may contact Ed Kashak at (951) 782-3292, or ekashak@waterboards.ca.gov

Sincerely,

Stephen D. Mayville, RCE
Chief, Enforcement and Dairy Units

Enclosures: Annual Report of Animal Waste Discharge form
Manure Tracking Manifest form
Annual Summary of Weekly Inspections form

cc: Robert Vanden Heuvel, Milk Producers Council
Pat Boldt, Milk Producers Council
Jim Griffin, Western United Dairymen

EGK:dairies/ekashak/dairy_ltrs/nov_ltr/venegas_annual_report_nov

Annual Report of Animal Waste Discharge

Santa Ana Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501-3348
(951) 782-4130

Reporting Period: January 1, 2011 to December 31, 2011
Report Due Date: **Tuesday, January 17, 2012**

Facility Information (Please make corrections directly on this form.)
Operator's Name
Facility Name
Facility Address
Mailing Address
Telephone Number

Does the information provided apply only to the facility address indicated above? ☐ Yes ☐ No

If **No**, please provide the name and address of the other facilities in the Comments section of this report.

Note: Submit a separate report for each of your facilities including dry cow, heifer, and calf ranches.

Animal Population	**Manure Information**
	Units used below: ☐ tons ☐ cubic yards
No. Milking Cows _____	Amount of manure spread on cropland at the facility: _____
No. Dry Cows _____	
No. Heifers _____	Amount of manure hauled away from your facility: (Please provide copies of all Manure Tracking Manifests showing the hauler name and the destination of the manure.) _____
No. Calves _____	
Others _____	Amount of manure produced in 2006 that is stockpiled on site as of 12/31/06: _____

Were the production factors provided below used to estimate your manure information? ☐ Yes ☐ No

1 Milking cow produces approximately 4.1 tons per year of manure.

1 Dry cow produces approximately 4.1 tons per year of manure.

1 Heifer produces approximately 1.5 tons per year of manure.

1 Calf produces approximately 0.6 tons per year of manure.

1 ton of corral manure equals 2.32 cubic yards.

1 cubic yard of corral manure equals 0.43 tons.

Crop Growing Activity

Write in the number of acres where manure has been applied to cropland at your facility. Cropland acreage is the number of acres, contiguous to the dairy, where manure was applied and a crop was harvested.

No. of cropland acres: _____

No. of plantings per year: ☐ one ☐ two ☐ three

Type of crop grown:

☐ Sudan grass ☐ Alfalfa ☐ Winter wheat

☐ Barley ☐ Bermuda grass ☐ Corn

☐ Oats ☐ Rye Grass ☐ Vegetables

☐ Other: _____

Number of Milkings per day (Dairies only): ☐ one ☐ two ☐ three

Comments:

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report **(please print)**:_____

Title:_____

Signature:_____

Date: _____

Attachment 2. Annual Summary Report of CAFO Weekly Storm Water Management Structure Inspections

Reporting Period: January 1, 2011 to December 31, 2011

Facility Information (Please make corrections directly on this form.)
Operator's Name
Facility Name
Facility Address

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☐ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

_____

_____

_____

Were there any process wastewater discharge incidents during the year? ☐ Yes ☐ No

If **Yes**, please provide: the date of the incident, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last?	How was it stopped?

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print):_____

Title:_____

Signature:_____

Date:_____

Manure Tracking Manifest

Santa Ana Regional Water Quality Control Board

Instructions

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The **operator** must obtain the signature of the hauler upon completion of each manure hauling event.
4) The **operator** shall submit manure tracking manifest(s) with the Annual Report of Animal Waste Discharge to the Santa Ana Regional Water Quality Control Board.

Operator Information

Name of the Operator:

Name of Facility:

Facility Address:

Mailing Address:

Phone Number:

Manure Hauler Information

Name of Hauling Company and Contact Person:	Phone Number:

Destination Information

Hauled To (please check one):

- ☐ Composting Facility
- ☐ Regional Digester
- ☐ Riverside County
- ☐ San Bernardino County
- ☐ Other County: _____

Dates Hauled:

Please give the name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address, or nearest cross streets.

Please enter the amount in the box below and circle the appropriate units:

Amount Removed from Facility:	Amount Composted:	Amount to Digester:
☐ Tons or Cubic Yards	☐ Tons or Cubic Yards	☐ Tons or Cubic Yards

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: _____ Date: _____

Hauler's Signature: _____ Date: _____

Last Revised 12/04

PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE

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5980 E074 2000 0447 8002

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Sent To ART VENEGAS DAIRY

Street, Apt. No or PO Box No. 13835 EUCLID AVE

City, State, ZIP ONTARIO, CA 91762

PS Form 3800

California Regional Water Quality Control Board
Santa Ana Region

Linda S. Adams
Secretary for
Environmental Protection

3737 Main Street, Suite 500, Riverside, California 92501-3348
Phone (951) 782-4130 • FAX (951) 781-6288 • TDD (951) 782-3221
www.waterboards.ca.gov/santaana

Arnold Schwarzenegger
Governor

May 17, 2010

Certified Mail
Return Receipt Requested

Art Venegas
Art Venegas Dairy
13835 Euclid Avenue
Ontario, CA 91762

WASTE DISCHARGE REQUIREMENTS, ORDER NO. R8-2007-0001, NPDES NO. CAG018001, FOR ART VENEGAS DAIRY, LOCATED AT 13835 EUCLID AVENUE, ONTARIO

Mr. Venegas:

On September 7, 2007, the Regional Board adopted General Waste Discharge Requirements for Concentrated Animal Feeding Operations (Dairies and Related Facilities) Within the Santa Ana Region, NPDES No. CAG018001 (Order No. R8-2007-0001). Section II, Part B.3, of Order No. R8-2007-0001, requires the submittal of a Notice of Intent and filing fee for the discharge of wastes. If the proposed discharge meets the requirements of Order R8-2007-0001, the Executive Officer will provide the discharger with a written authorization to discharge wastes in accordance with the terms and conditions specified in Order No. R8-2007-0001.

You have submitted a Notice of Intent and filing fee for the discharge of wastes from the above facility. With receipt of your Notice of Intent and filing fee, you have complied with Section II, Part B.3, of Order No. R8-2007-0001. Therefore you are hereby authorized to discharge waste from your facility in accordance with the terms and conditions specified in Order No. R8-2007-0001.

Order No. R8-2007-0001 includes provisions, in part, that:

1) Prohibit the land application of manure anywhere in the Santa Ana Region for disposal purposes.
2) Prohibit the land application of manure as fertilizer in certain areas of the Region, and limit the land application of manure as fertilizer in the remainder of the Region.
3) Require all facility operators to develop and implement an Engineered Waste Management Plan (EWMP).
4) Require all manure scraped from corrals be removed from the facility within 180 days.
5) Require large CAFOs (greater than 700 cows) that transfer manure to a third party to provide that party with a chemical analysis of the manure for nitrogen compounds.

6) Require you to inspect your facilities on at least a weekly basis, and record the findings in the enclosed log form.
7) Require the tracking of all manure removed from the facility. Please use the enclosed form for all manure which is hauled from your facility.
8) Require you to submit the following reports by January 15 of each year:
   - Annual Summary Report (the form will be transmitted to you near year end)
   - Annual Summary Report of Storm Water Management Structure Inspections (i.e. a summary from the weekly inspection logs mentioned above. The form will be transmitted to you near year end)
   - New Manure Tracking Manifest (form enclosed)

Our records indicate that an EWMP for this facility was accepted on September 28, 2005. After an accepted EWMP is implemented, a certification letter indicating that the EWMP was implemented must be submitted to our office. As of this date, we have not received a certification letter that the accepted EWMP was implemented.

If you intend to develop a new EWMP or modify the accepted EWMP please submit the name of the engineer or qualified individual who will develop the EWMP and a time schedule to develop or modify the EWMP. If you intend to use the current accepted EWMP, a certification letter from the engineer who developed the EWMP, must be submitted to our office.

Please note that failure to fully develop and implement an EWMP and submit an implementation certification for this facility is a violation of Order No. R8-2007-0001, which could subject you to an administrative civil liability penalty of $10,000 per day for each day the violation occurs. To avoid a possible enforcement action by the Regional Board, please submit the above requested information by June 1, 2010.

As a reminder, a copy of the Order No. R8-2007-0001 can be downloaded from the Regional Board's website at: ***http://www.waterboards.ca.gov/santaana/pdf/07-01.pdf***. If you have any questions, I would encourage you to call Ed Kashak at (951) 782-3292 or Jawed Shami at (951) 782-3288.

Sincerely,

For Gerard J. Thibeault
Executive Officer

Enclosures: Storm Water Management Structure Inspection Form
New Manure Tracking Manifest Form

cc w/o enclosure: Robert Vanden Heuvel, Milk Producers Council
Pat Boldt, Milk Producers Council
Jim Griffin, Western United Dairymen
Lawyers for Clean Water
Orange County Coastkeeper
David Beckman, Natural Resources Defense Council
Min-Le Cheng, West Valley Mosquito & Vector Control District
Northwest Mosquito & Vector Control District

EGK:dairies/ekashak/dairy_ltrs/dal/venegas_euclid

ATTACHMENT 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Information (Please make corrections directly on this form.)
Operator's Name:
Facility Name:
Facility Address:

Instructions: Use this form to keep track of weekly visual inspections of your process wastewater and storm water containment structures. Use this form to document the findings of daily storm event inspections. List the items that need to be inspected below (refer to your Engineered Waste Management Plan).

Keep track of your inspections in the following table by filling out one row each week when you inspect your process wastewater and storm water containment structures. Provide the following information: date of inspection, initials of the person performing the inspection, check "OK" box if no problems were found, use the "Notes" column to describe problems, if you find any, and how they were fixed, record the estimate of the wastewater containment pond(s) freeboard, fill in the "Date Corrected" column with the date when you corrected the problem.

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
1						
2						
3						
4						
5						
6						
7						
8						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
9						
10						
11						
12						
13						
14						
15						
16						
17						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
18						
19						
20						
21						
22						
23						
24						
25						
26						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
27						
28						
29						
30						
31						
32						
33						
34						
35						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
36						
37						
38						
39						
40						
41						
42						
43						
44						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
45						
46						
47						
48						
49						
50						
51						
52						

Manure Tracking Manifest

Santa Ana Regional Water Quality Control Board

Instructions

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The **operator** must obtain the signature of the hauler upon completion of each manure hauling event.
4) The **operator** shall submit manure tracking manifest(s) with the Annual Report of Animal Waste Discharge to the Santa Ana Regional Water Quality Control Board.

Operator Information

Name of the Operator:

Name of Facility:

Facility Address:

Mailing Address:

Phone Number:

Manure Hauler Information

Name of Hauling Company and Contact Person:	Phone Number:

Destination Information

Hauled To (please check one):

- ☐ Composting Facility
- ☐ Regional Digester
- ☐ Riverside County
- ☐ San Bernardino County
- ☐ Other County: _____

Dates Hauled:

Please give the name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address, or nearest cross streets.

Please enter the amount in the box below and circle the appropriate units:

Amount Removed from Facility:	Amount Composted:	Amount to Digester:
☐ Tons or Cubic Yards	☐ Tons or Cubic Yards	☐ Tons or Cubic Yards

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: _____ Date: _____

Hauler's Signature: _____ Date: _____

Last Revised 12/04

Entered on 3/1/13

Annual Report of Animal Waste Discharge

Santa Ana Regional Water Quality Control Board
3737 Main Street, Suite 500
Riverside, CA 92501-3348
(951) 782-4130

Received
JAN 2013
CRWQCB
Santa Ana Region 8

Reporting Period: January 1, 2012 to December 31, 2012

Report Due Date: **January 15, 2013**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy2
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951) 830-7306

Does the information provided apply only to the facility address indicated above? ☐ Yes ☐ No

If **No**, please provide the name and address of the other facilities in the Comments section of this report.

Note: Submit a separate report for each of your facilities including dry cow, heifer, and calf ranches.

Animal Population		**Manure Information**	
		Units used below: ☒ tons ☐ cubic yards	
No. Milking Cows	176	Amount of manure spread on cropland at the facility:	0
No. Dry Cows	32		
No. Heifers	75	Amount of manure hauled away from your facility: (Please provide copies of all Manure Tracking Manifests showing the hauler name and the destination of the manure.)	752 tons
No. Calves	16		
Others Bulls	48	Amount of manure produced in 2012 that is stockpiled on site as of 12/31/2012:	

Were the production factors provided below used to estimate your manure information? ☐ Yes ☒ No

I have complied with Special Provisions Section VII.C.5.f. of Order No. R8-2007-0001 by providing nutrient analysis for the transferred manure. ☐ Yes ☐ No

1 Milking cow produces approximately 4.1 tons per year of manure.
1 Dry cow produces approximately 4.1 tons per year of manure.
1 Heifer produces approximately 1.5 tons per year of manure.
1 Calf produces approximately 0.6 tons per year of manure.
1 ton of corral manure equals 2.32 cubic yards.
1 cubic yard of corral manure equals 0.43 tons.

Last Revised: 11/12

Crop Growing Activity

Write in the number of acres where manure has been applied to cropland at your facility. Cropland acreage is the number of acres, contiguous to the dairy, where manure was applied and a crop was harvested.

No. of cropland acres: 40

No. of plantings per year: ☒ one ☐ two ☐ three

Type of crop grown:

☐ Sudan grass	☒ Alfalfa	☐ Winter wheat
☐ Barley	☐ Bermuda grass	☐ Corn
☐ Oats	☐ Rye Grass	☐ Vegetables
	☐ Other: _____	

Number of Milkings per day (Dairies only): ☐ one ☒ two ☐ three

Comments:

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report **(please print)**: Arthur Veneggs

Title: owner

Signature: Arthur Veneggs

Date: 12.29.12

Annual Summary Report of CAFO Weekly Storm Water Management Structure Inspections

Reporting Period: January 1, 2012 to December 31, 2012

Facility Information (Please make corrections directly on this form)
Operator's Name Art Venegas
Facility Name Art Venegas Dairy
Facility Address 13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☒ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were there any process wastewater discharge incidents during the year? Yes ☐ No ☒

If **Yes**, please provide: the date of the incident, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last?	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print): Arthur Venegas

Title: owner

Signature: Arthur Venegas

Date: 12-29-12

Manure Tracking Manifest

Santa Ana Regional Water Quality Control Board

Instructions

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The **operator** must obtain the signature of the hauler upon completion of each manure hauling event.
4) The **operator** shall submit manure tracking manifest(s) with the Annual Report of Animal Waste Discharge to the Santa Ana Regional Water Quality Control Board.

Operator Information

Name of the Operator: Art Venegas

Name of Facility: Art Venegas DAIRY

Facility Address: 13835 Euclid Ave. Ontario

Mailing Address:

Phone Number:

Manure Hauler Information

Name of Hauling Company and Contact Person: L Franco trucking

Phone Number: 909-732-1692

Destination Information

Hauled To (please check one):

- ☐ Composting Facility
- ☐ Regional Digester
- ☐ Riverside County
- ☑ San Bernardino County
- ☐ Other County: _____

Dates Hauled: 8-6-12 —— 8-10-12

Please give the name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address, or nearest cross streets. Farm Fields

Sunland Growers

68st + Wineville Ave

Miraloma CA.

Please enter the amount in the box below and circle the appropriate units:

Amount Removed from Facility:		Amount Composted:		Amount to Digester:	
752	Tons or Cubic Yards		Tons or Cubic Yards		Tons or Cubic Yards

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: Arthur Venegas Date: 12-29-12

Hauler's Signature: Jose Franco Date: 8-15-12

Last Revised 12/04

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 1-1-12 —— 2.25.12

Facility Name: Art Venegas DAIRY

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
1	1.7.12	a.v.	✓		4"	
2	1.14.12	a.v	✓		4"	
3	1.21.12	a.v	✓		4"	
4	1.28.12	a.v.	✓		4"	
5	2.4.12	a.v	✓		4"	
6	2.11.12	a.v	✓		4"	
7	2.18.12	a.v	✓		4"	
8	2.25.12	a.v	✓		4"	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 11·10·12 ——— 12·29·12

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
45	11·10·12	a.V	✓		4"	
46	11·17·12	a.V	✓		4"	
47	11·24·12	a.V	✓		4"	
48	12·1·12	a.V	✓		4"	
49	12·8·12	a.V	✓		4"	
50	12·15·12	a.V	✓		4"	
51	12·22·12	a.V	✓		4"	
52	12·29·12	a.V	✓		4"	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 7-7-12 ——— 9-1-12

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
27	7.7.12	a.v			4"	
28	7.14.12	a.v.			4"	
29	7.21.12	a.v.			4"	
30	7.28.12	a.v.			3.5"	
31	8.4.12	a.v.			3.5"	
32	8.11.12	a.v.			3"	
33	8.18.12	a.v.			3"	
34	8.25.12	a.v			3"	
35	9.1.12	a.v.			3"	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 2·26·12 — 4·28·12

Facility Name: Ant Venegas DAIRY

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
9	3·3·12	a.V.	✓		4"	
10	3.10.12	a.V.	✓		4"	
11	3.17.12	a.V.	✓		4"	
12	3·24.12	a.V.	✓		3.5"	
13	3.31.12	a.V	✓		3.5"	
14	4.7.12	a.V	✓		3.8"	
15	4.14.12	a.V	✓		4"	
16	4.21.12	a.V	✓		4"	
17	4.28.12	a.V	✓		4"	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 5-5-12 —— 6-30-12

Facility Name: Ant Venegas DAIRY

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
18	5-5-12	A.V	✓		4"	
19	5-12-12	A.V	✓		4"	
20	5-19-12	A.V	✓		4"	
21	5-26-12	A.V	✓		4"	
22	6-2-12	A.V	✓		4"	
23	6-9-12	A.V	✓		4"	
24	6-16-12	A.V	✓		4"	
25	6-23-12	A.V	✓		4"	
26	6-30-12	A.V	✓		4"	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 9.8.12 — 11.3.12

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
36	9.8.12	A.V.	✓		4"	
37	9.15.12	A.V.	✓		4"	
38	9.22.12	A.V.	✓		4"	
39	9.28.12	A.V.	✓		4"	
40	10.6.12	A.V.	✓		4"	
41	10.13.12	A.V.	✓		4"	
42	10.20.12	A.V.	✓		4"	
43	10.27.12	A.V.	✓		4"	
44	11.3.12	A.V.	✓		4"	

Form 3.

ANNUAL REPORT
Regional Water Quality Control Board
Santa Ana Region
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2015 through December 31, 2015**
Report Due Date: **January 15, 2016**

FACILITY INFORMATION (Please make any corrections directly on this form)	
CAFO Operator's Name	Art Venegas
CAFO Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951) 830-7306

ANIMAL POPULATION (Please provide the number of animals in each category)

Milking Cows 81 Dry Cows 15 Heifers 133 Calves 23

Others (specify type and number) _____

MANURE INFORMATION Units Used : Tons ____ Cubic Yards ____

Manure Produced 606.9 tons Manure Spread on Cropland at Facility ~~0~~

Manure Spread on Other Cropland 0

Manure Stockpiled on Site as of 12/31/15 ____ 40 tons

Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) 704 tons

Was Manure Amount Calculated Using the Following Factors? Yes X No ____

1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year

*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

NUTRIENT MANAGEMENT PLAN (NMP) AND NUTRIENT ANALYSIS

NMP is Certified Yes_____ No X

Has the most current nutrient analysis been provided to the recipient of the manure?

Yes_____ No X

CROP GROWING ACTIVITY

Number of cropland acres where manure has been applied (Cropland is contiguous to the dairy, where manure was applied and a crop was harvested).

Cropland acres: 20 No. of plantings per year: One X Two ___ Three ___

Type of crops grown:

Sudan grass_____ Alfalfa_____ Winter wheat_____

Barley_____ Bermuda grass_____ corn_____ Oats X Turf Grass_____

Vegetables_____ Others_____

Actual crop yields_____

Manure application rates 0

Amount of manure spread on each field 0

Number of Milkings per day (Dairies only): One_____ Two X Three_____

COMMENTS:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report **(please print)**: Arthur Venegas

Signature: Arthur Venegas

Date: 1-14-16

Title: Operator

Santa Ana Region

Order No. R8-2013-0001, NPDES No. CAG018001

Reporting Period: January 1, 2015 through December 31, 2015

INSTRUCTIONS:

1. Complete one manifest for each hauling event and for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, complete a separate form for each destination.
3. The CAFO operator must obtain the signature of the hauler upon completion of each manure hauling event.
4. The CAFO operator shall submit manure tracking manifest(s) with the Annual Report to Regional Board.

OPERATOR'S INFORMATION

CAFO Operator's Name: Art Venegas

CAFO Facility Name: Art Venegas Dairy

Facility Address: 13835 Euclid Avenue, Ontario

Mailing Address:

Telephone Number:

MANURE INFORMATION

Manure analyzed for nutrients: Yes ☐ No ☒

Most current nutrient analysis of manure provided to the recipient of the manure[1]: Yes ☐ No ☒

MANURE HAULER INFORMATION

Name and Address of Hauling Company: Lupe Francotrucking, 2015 S. Plum Ave, Ontario CA 91761

Phone Number: 909-737-1692

Contact Person Name:

MANURE DESTINATION INFORMATION

Hauled to (please check):

- ☑ Composting Facility
- ☐ Regional Treatment Facility
- ☐ Croplands in Riverside County
- ☐ Croplands in San Bernardino County
- ☐ Croplands in other Counties

Amount removed: Tons or Cubic Yards
(Please enter the amount in the box below and circle the appropriate units)

368 tons

Dates Hauled: 6-8-15 — 6-11-15

Destination of Haul: Viramontes Express

GPS Coordinates of Destination[2]: Latitude: 33937334 Longitude: 117.613385

Destination Receiver of Manure: Same

Manure Quantity Delivered: 368 tons

Approximate Acreage (If Destination is Cropland):

Crop(s) Grown on Cropland:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: Art Venegas Date: 1-14-16

Hauler's Signature: Lupe Franco Date: 6-13-15

1 *The Regional Board may ask for a copy of manure nutrient analysis.*

2 *GPS coordinates shall be provided for all destinations within the Santa Ana Region.*

Santa Ana Region
Order No. R8-2013-0001, NPDES No. CAG018001
Reporting Period: January 1, 2015 through December 31, 2015

INSTRUCTIONS:
1. Complete one manifest for each hauling event and for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, complete a separate form for each destination.
3. The CAFO operator must obtain the signature of the hauler upon completion of each manure hauling event.
4. The CAFO operator shall submit manure tracking manifest(s) with the Annual Report to Regional Board.

OPERATOR'S INFORMATION

CAFO Operator's Name: Art Venegas

CAFO Facility Name: Art Venegas Dairy

Facility Address: 13835 Euclid Avenue, Ontario

Mailing Address:

Telephone Number:

MANURE INFORMATION

Manure analyzed for nutrients: Yes ☐ No ☒

Most current nutrient analysis of manure provided to the recipient of the manure[1]: Yes ☐ No ☑

MANURE HAULER INFORMATION

Name and Address of Hauling Company: Lupe Franco Trucking, 2015 S. Plum Ave, Ontario CA 91761

Phone Number: 909-732-1692

Contact Person Name:

MANURE DESTINATION INFORMATION

Hauled to (please check):

- ☑ Composting Facility
- ☐ Regional Treatment Facility
- ☐ Croplands in Riverside County
- ☐ Croplands in San Bernardino County
- ☐ Croplands in other Counties _____

Amount removed: Tons or Cubic Yards
(Please enter the amount in the box below and circle the appropriate units)

336 tons

Dates Hauled: 11-18-15 —— 11-20-15

Destination of Haul: Kellogg Garden

GPS Coordinates of Destination[2]: Latitude: 34.004612 Longitude: 117.615722

Destination Receiver of Manure: _____

Manure Quantity Delivered: 336 tons

Approximate Acreage (if Destination is Cropland): _____

Crop(s) Grown on Cropland: _____

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: Arthur Venegas Date: 1-14-16

Hauler's Signature: Lupe Franco Date: 11-22-15

1 *The Regional Board may ask for a copy of manure nutrient analysis.*
2 *GPS coordinates shall be provided for all destinations within the Santa Ana Region.*

Form 2. Summary Report of Weekly Storm Water Management Structure Inspections (Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2015 through December 31, 2015**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☒ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were water lines inspected daily? Yes ☒ No ☐

Were there any discharges from the facility during the year? Yes ☐ ☒ No

If **Yes**, please provide: the date of discharge, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last and volume	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print): Arthur Venegas

Title: Operator

Signature: Arthur Venegas

Date: 1-14-16

Form 3.

ANNUAL REPORT

Regional Water Quality Control Board
Santa Ana Region
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2016 through December 31, 2016**
Report Due Date: **January 16, 2017**

FACILITY INFORMATION (Please make any corrections directly on this form)	
CAFO Operator's Name	Art Venegas
CAFO Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951) 830-7306

ANIMAL POPULATION (Please provide the number of animals in each category)

Milking Cows 93 Dry Cows 20 Heifers 57 Calves 21

Others (specify type and number) Bulls 31

MANURE INFORMATION Units Used : Tons ____ Cubic Yards ____

Manure Produced 607.9 tons Manure Spread on Cropland at Facility 0

Manure Spread on Other Cropland 0

Manure Stockpiled on Site as of 12/31/16 240 tons

Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) 350 tons

Was Manure Amount Calculated Using the Following Factors? Yes X No ____

1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year

*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

NUTRIENT MANAGEMENT PLAN (NMP) AND NUTRIENT ANALYSIS

NMP is Certified Yes_____ No X

Has the most current nutrient analysis been provided to the recipient of the manure?

Yes_____ No X

CROP GROWING ACTIVITY

Number of cropland acres where manure has been applied (Cropland is contiguous to the dairy, where manure was applied and a crop was harvested).

Cropland acres: 35 No. of plantings per year: One 1 Two ___ Three ___

Type of crops grown:

Sudan grass_____ Alfalfa_____ Winter wheat_____

Barley_____ Bermuda grass X corn_____ Oats_____ Turf Grass_____

Vegetables_____ Others Pumpkins

Actual crop yields_____

Manure application rates_____

Amount of manure spread on each field 0

Number of Milkings per day (Dairies only): One_____ Two X Three_____

COMMENTS:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report **(please print)**: Arthur Venegas

Signature: Arthur Venegas

Date: 1.15.16

Title: Operator

Form 2. **Summary Report of Weekly Storm Water Management Structure Inspections**
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2016 through December 31, 2016**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☒ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were water lines inspected daily? Yes ☐ No ☒

Were there any discharges from the facility during the year? Yes ☐ ☒ No

If **Yes**, please provide: the date of discharge, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last and volume	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print): Arthur Venegas

Title: operator

Signature: Arthur Venegas

Date: 1.15.16

Form 4.

Manure Tracking Manifest
Regional Water Quality Control Board
Santa Ana Region
Order No. R8-2013-0001, NPDES No. CAG018001
Reporting Period: January 1, 2016 through December 31, 2016

INSTRUCTIONS:

1. Complete one manifest for each hauling event and for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, complete a separate form for each destination.
3. The CAFO operator must obtain the signature of the hauler upon completion of each manure hauling event.
4. The CAFO operator shall submit manure tracking manifest(s) with the Annual Report to Regional Board.

OPERATOR'S INFORMATION

CAFO Operator's Name: Art Venegas

CAFO Facility Name: Art Venegas Dairy

Facility Address: 13835 Euclid Avenue, Ontario

Mailing Address:

Telephone Number: 951.830.7306

MANURE INFORMATION

Manure analyzed for nutrients: Yes ☐ No ☐

Most current nutrient analysis of manure provided to the recipient of the manure[1]: Yes ☐ No ☐

MANURE HAULER INFORMATION

Name and Address of Hauling Company: Lupe Franco trucking 2015 S. Plum Ave Ontario CA 91761

Phone Number: 909-732-1692

Contact Person Name:

MANURE DESTINATION INFORMATION

Hauled to (please check):

- ☑ Composting Facility
- ☐ Regional Treatment Facility
- ☐ Croplands in Riverside County
- ☐ Croplands in San Bernardino County
- ☐ Croplands in other Counties _____

Amount removed: Tons or Cubic Yards
(Please enter the amount in the box below and circle the appropriate units)

350 tons

Dates Hauled: 6-12-16 — 6-15-16

Destination of Haul: RWP Compost

GPS Coordinates of Destination[2]: Latitude: 34.002643 Longitude: 117.618611

Destination Receiver of Manure: Same

Manure Quantity Delivered: 350 tons

Approximate Acreage (If Destination is Cropland): _____

Crop(s) Grown on Cropland: _____

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: Art Venegas Date: 1-18-17

Hauler's Signature: Lupe Franco Date: 6-20-16

1. *The Regional Board may ask for a copy of manure nutrient analysis.*
2. *GPS coordinates shall be provided for all destinations within the Santa Ana Region.*

Form 3.

ANNUAL REPORT

Regional Water Quality Control Board
Santa Ana Region
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2018 through December 31, 2018**
Report Due Date: **January 15, 2019**

FACILITY INFORMATION (Please make any corrections directly on this form)	
CAFO Operator's Name	Art Venegas
CAFO Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951) 830-7306

ANIMAL POPULATION (Please provide the number of animals in each category)

Milking Cows 80 Dry Cows 16 Heifers 62 Calves 24

Others (specify type and number) 10 BULLS

MANURE INFORMATION Units Used : Tons X Cubic Yards ____

Manure Produced 584 tons Manure Spread on Cropland at Facility Ø

Manure Spread on Other Cropland Ø

Manure Stockpiled on Site as of 12/31/18 150 tons

Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) ____

Was Manure Amount Calculated Using the Following Factors? Yes X No ____

1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year

*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: January 1, 2018 through December 31, 2018

Facility Information (Please make corrections directly on this form)	
Operator's Name:	Art Venegas
Facility Name:	Art Venegas Dairy
Facility Address:	13835 Euclid Avenue, Ontario

Instructions: Use this form to keep track of weekly visual inspections of your process wastewater and storm water containment structures. Document the findings of daily storm event inspections. List the structure items that need to be inspected below (refer to your Engineered Waste Management Plan).

Keep track of your inspections in the attached tables by completing one row each week when you inspect your process wastewater and storm water containment structures. Provide the following information: date of inspection, initials of the person performing the inspection, check "OK" box if no problems were found, use the "Notes" column to describe problems, if you find any, and how they were fixed, record the estimate of the wastewater containment pond(s) freeboard, fill in the "Date Corrected" column with the date when you corrected the problem.

Form 2. **Summary Report of Weekly Storm Water Management Structure Inspections**

(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2018 through December 31, 2018**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☒ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were water lines inspected daily? Yes ☒ No ☐

Were there any discharges from the facility during the year? Yes ☐ No ☒

If **Yes**, please provide: the date of discharge, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last and volume	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print): Arthur Venegas

Title: Operator

Signature: Arthur Venegas

Date: 1/15/2019

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: May 5th – June 30th

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
18	5/5/18	A.V.	✓		4'	
19	5/12/18	A.V.	✓		4'	
20	5/19/18	A.V.	✓		4.8'	
21	5/24/18	A.V.	✓		5'	
22	6/2/18	A.V	✓		5.5'	
23	6/9/18	A.V.	✓		6'	
24	6/16/18	A.V.	✓		6'	
25	6/23/18	A.V	✓		7'	
26	6/30/18	A.V	✓		7'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: Jan 1 - Feb 24

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
1	1/6/18	A.V.	✓		3'	
2	1/13/18	A.V.	✓		3'	
3	1/20/18	A.V.	✓		2.5'	
4	1/27/18	A.V.	✓		2'	
5	2/3/18	A.V	✓		2.5'	
6	2/10/18	A.V	✓		1'	
7	2/17/18	A.V.	✓		1'	
8	2/24/18	A.V.	✓		1'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: July 7 – Sep. 1st

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
27	7/7/18	A.V.	✓		8'	
28	7/14/18	A.V	✓		9'	
29	7/21/18	A.V	✓		9'	
30	7/28/18	A.V	✓		9'	
31	8/4/18	A.V.	✓		10'	
32	8/11/18	A.V	✓		10'	
33	8/18/18	A.V	✓		10'	
34	8/25/18	A.V.	✓		10'	
35	9/1/18	A.V.	✓		10'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: Sept. 8 - Nov 3rd

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
36	9/8/18	A.V	✓		10'	
37	9/15/18	A.V.	✓		10'	
38	9/22/18	A.V.	✓		10'	
39	9/29/18	A.V	✓		10'	
40	10/6/18	A.V.	✓		10'	
41	10/13/18	A.V.	✓		10'	
42	10/20/18	A.V.	✓		9.5'	
43	10/27/18	A.V	✓		9.5'	
44	11/3/18	A.V	✓		9.5'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: NOV 10th – Dec 28th

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
45	11/10/18	A.V.	✓		9'	
46	11/17/18	A.V	✓		8.9'	
47	11/24/18	A.V.	✓		8.4'	
48	12/1/18	A.V.	✓		8'	
49	12/8/18	A.V.	✓		7'	
50	12/15/18	A.V.	✓		8'	
51	12/22/18	A.V.	✓		8.5'	
52	12/28/18	A.V.	✓		8.5'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: January 1, 2018 through December 31, 2018

Facility Information (Please make corrections directly on this form)	
Operator's Name:	Art Venegas
Facility Name:	Art Venegas Dairy
Facility Address:	13835 Euclid Avenue, Ontario

Instructions: Use this form to keep track of weekly visual inspections of your process wastewater and storm water containment structures. Document the findings of daily storm event inspections. List the structure items that need to be inspected below (refer to your Engineered Waste Management Plan).

Keep track of your inspections in the attached tables by completing one row each week when you inspect your process wastewater and storm water containment structures. Provide the following information: date of inspection, initials of the person performing the inspection, check "OK" box if no problems were found, use the "Notes" column to describe problems, if you find any, and how they were fixed, record the estimate of the wastewater containment pond(s) freeboard, fill in the "Date Corrected" column with the date when you corrected the problem.

Form 2. **Summary Report of Weekly Storm Water Management Structure Inspections**

(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2018 through December 31, 2018**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☒ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were water lines inspected daily? Yes ☒ No ☐

Were there any discharges from the facility during the year? Yes ☐ No ☒

If **Yes**, please provide: the date of discharge, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last and volume	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print): Arthur Venegas

Title: Operator

Signature: Arthur Venegas

Date: 1/15/2019

Form 3.

ANNUAL REPORT

Regional Water Quality Control Board
Santa Ana Region
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2018 through December 31, 2018**
Report Due Date: **January 15, 2019**

FACILITY INFORMATION (Please make any corrections directly on this form)	
CAFO Operator's Name	Art Venegas
CAFO Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951) 830-7306

ANIMAL POPULATION (Please provide the number of animals in each category)

Milking Cows 80 Dry Cows 16 Heifers 62 Calves 24

Others (specify type and number) 10 BULLS

MANURE INFORMATION Units Used : Tons X Cubic Yards ____

Manure Produced 584 tons Manure Spread on Cropland at Facility Ø

Manure Spread on Other Cropland Ø

Manure Stockpiled on Site as of 12/31/18 150 tons

Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) ____

Was Manure Amount Calculated Using the Following Factors? Yes X No ____

1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year

*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: March 3 - April 28th

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
9	3/3/18	A.V	✓		1'	
10	3/10/18	A.V.	✓		2'	
11	3/17/18	A.V.	✓		2'	
12	3/24/18	A.V.	✓		2'	
13	3/31/18	A.V.	✓		3'	
14	4/7/18	A.V.	✓		3'	
15	4/14/18	A.V.	✓		3.5'	
16	4/21/18	A.V	✓		3'	
17	4/28/18	A.V.	✓		3'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: Jan 1 - Feb 24

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
1	1/6/18	A.V.	✓		3'	
2	1/13/18	A.V.	✓		3'	
3	1/20/18	A.V.	✓		2.5'	
4	1/27/18	A.V.	✓		2'	
5	2/3/18	A.V	✓		2.5'	
6	2/10/18	A.V	✓		1'	
7	2/17/18	A.V.	✓		1'	
8	2/24/18	A.V.	✓		1'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: May 5th – June 30th

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
18	5/5/18	A.V.	✓		4'	
19	5/12/18	A.V.	✓		4'	
20	5/19/18	A.V.	✓		4.8'	
21	5/24/18	A.V.	✓		5'	
22	6/2/18	A.V	✓		5.5'	
23	6/9/18	A.V.	✓		6'	
24	6/16/18	A.V.	✓		6'	
25	6/23/18	A.V	✓		7'	
26	6/30/18	A.V	✓		7'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: July 7 – Sep. 1st

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
27	7/7/18	A.V.	✓		8'	
28	7/14/18	A.V	✓		9'	
29	7/21/18	A.V	✓		9'	
30	7/28/18	A.V	✓		9'	
31	8/4/18	A.V.	✓		10'	
32	8/11/18	A.V	✓		10'	
33	8/18/18	A.V	✓		10'	
34	8/25/18	A.V.	✓		10'	
35	9/1/18	A.V.	✓		10'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: Sept. 8 - Nov 3rd

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
36	9/8/18	A.V	✓		10'	
37	9/15/18	A.V.	✓		10'	
38	9/22/18	A.V.	✓		10'	
39	9/29/18	A.V	✓		10'	
40	10/6/18	A.V.	✓		10'	
41	10/13/18	A.V.	✓		10'	
42	10/20/18	A.V.	✓		9.5'	
43	10/27/18	A.V	✓		9.5'	
44	11/3/18	A.V	✓		9.5'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: NOV 10th – Dec 28th

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
45	11/10/18	A.V.	✓		9'	
46	11/17/18	A.V	✓		8.9'	
47	11/24/18	A.V.	✓		8.4'	
48	12/1/18	A.V.	✓		8'	
49	12/8/18	A.V.	✓		7'	
50	12/15/18	A.V.	✓		8'	
51	12/22/18	A.V.	✓		8.5'	
52	12/28/18	A.V.	✓		8.5'	

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2018-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2019 through December 31, 2019**

Facility Information (Please make corrections directly on this form)	
Operator's Name:	Art Venegas
Facility Name:	Art Venegas Dairy
Facility Address:	13835 Euclid Avenue, Ontario

Instructions: Use this form to keep track of weekly visual inspections of your process wastewater and storm water containment structures. Document the findings of daily storm event inspections. List the structure items that need to be inspected below (refer to your Engineered Waste Management Plan).

Keep track of your inspections in the attached tables by completing one row each week when you inspect your process wastewater and storm water containment structures. Provide the following information: date of inspection, initials of the person performing the inspection, check "OK" box if no problems were found, use the "Notes" column to describe problems, if you find any, and how they were fixed, record the estimate of the wastewater containment pond(s) freeboard, fill in the "Date Corrected" column with the date when you corrected the problem.

Form 2. **Summary Report of Weekly Storm Water Management Structure Inspections**

(Order No. R8-2018-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2019 through December 31, 2019**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☐ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were water lines inspected daily? Yes ☒ No ☐

Were there any discharges from the facility during the year? Yes ☐ ☒ No

If **Yes**, please provide: the date of discharge, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last and volume	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print): Art Venegas

Title: Operator

Signature: [signature]

Date: 1-15-2020

Form 3.

ANNUAL REPORT
Regional Water Quality Control Board
Santa Ana Region
(Order No. R8-2018-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2019 through December 31, 2019**
Report Due Date: **January 15, 2020**

FACILITY INFORMATION (Please make any corrections directly on this form)	
CAFO Operator's Name	Art Venegas
CAFO Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951)830-7306

ANIMAL POPULATION (Please provide the number of animals in each category)

Milking Cows 90 Dry Cows 25 Heifers 70 Calves 20

Others (specify type and number) 18 Bulls

MANURE INFORMATION Units Used : Tons X Cubic Yards ____

Manure Produced 400 tons Manure Spread on Cropland at Facility 0

Manure Spread on Other Cropland 0

Manure Stockpiled on Site as of 12/31/19 ____ 225 tons

Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) ____

Was Manure Amount Calculated Using the Following Factors? Yes X No ____

1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year

*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

NUTRIENT MANAGEMENT PLAN (NMP) AND NUTRIENT ANALYSIS

NMP is Certified Yes_____ No X

Has the most current nutrient analysis been provided to the recipient of the manure?

Yes_____ No X

CROP GROWING ACTIVITY

Number of cropland acres where manure has been applied (Cropland is contiguous to the dairy, where manure was applied and a crop was harvested).

Cropland acres: 15 No. of plantings per year: One ___ Two X Three ___

Type of crops grown:

Sudan grass_____ Alfalfa_____ Winter wheat X

Barley_____ Bermuda grass_____ corn_____ Oats_____ Turf Grass_____

Vegetables_____ Others X Pumpkins

Actual crop yields 20 tons of Pumpkins, NA winter wheat

Manure application rates 0

Amount of manure spread on each field 0

Number of Milkings per day (Dairies only): One_____ Two X Three_____

COMMENTS:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report **(please print)**: Art Venegas

Signature: [signature]

Date: 1-15-20

Title: Operater

Reporting Period: Jan - 1 / Feb 23

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK(?)	Notes (Indicate any problems and how they were remedied.)	Waste Pond Freeboard	Date Corrected
1	1-5-19	AV	✓		9	
2	1-12-19	AV	✓		9.5	
3	1-19-19	AV	✓		9	
4	1-26-19	AV	✓		8.5	
5	2-2-19	AV	✓		8	
6	2-9-19	AV	✓		8	
7	2-16-19	AV	✓		7	
8	2-23-19	AV	✓		7	

Reporting Period: Feb 24- Apr 27

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
9	3-~~20~~-19 2	AV	✓		6	
10	3-9-19	AV	✓		6	
11	3-16-19	AV	✓		6.5	
12	3-23-19	AV	✓		5	
13	3-30-19	AV	✓		5	
14	4-6-19	AV	✓		5	
15	4-13-19	AV	✓		6	
16	4-20-19	AV	✓		6.5	
17	4-27-19	AV	✓		6	

Reporting Period: Apr 28- Jun. 29

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
18	5-4-19	AV	✓		5	
19	5-11-19	AV	✓		4	
20	5-18-19	AV	✓		4	
21	5-25-19	AV	✓		4	
22	6-1-19	AV	✓		3	
23	6-8-19	AV	✓		3	
24	6-15-19	AV	✓		1	
25	6-22-19	AV	✓		1	
26	6-29-19	AV	✓		>1	

Reporting Period: Jul. 1 - Aug 31

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
27	7-6-14	AV	✓		>1	
28	7-13-14	AV	✓		>1	
29	7-20-14	AV	✓		0	
30	7-27-14	AV	✓		0	
31	8-3-14	AV	✓		0	
32	8-10-14	AV	✓		0	
33	8-17-14	AV	✓		>1	
34	8-24-14	AV	✓		>1	
35	8-31-14	AV	✓		>1	

Reporting Period: Sep. 1 - Nov 2

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
36	9-7-19	AV	✓		>1	
37	9-14-19	AV	✓		>1	
38	9-21-19	AV	✓		>1	
39	9-28-19	AV	✓		>1	
40	10-5-19	AV	✓		1	
41	10-12-19	AV	✓		1	
42	10-19-19	AV	✓		1	
43	10-26-19	AV	✓		2	
44	11-2-19	AV	✓		2	

Reporting Period: Nov 3 - Dec 31

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK(?)	Notes (Indicate any problems found and how they were remedied.)	Waste Pond Freeboard	Date Corrected
45	11-9-14	AV	✓		1	
46	11-16-14	AV	✓		1	
47	11-23-14	AV	✓		3	
48	11-23-14	AV	✓		4	
49	11-30-14	AV	✓		5,5	
50	12-7-14	AV	✓		5,5	
51	12-14-14	AV	✓		7	
52	12-21-14	AV	✓		8	
	12-28-14	AV	✓		9	

Form 3

ANNUAL REPORT
Regional Water Quality Control Board
Santa Ana Region
(Order No. R8-2013-0001, NPDES No. CAG018001)



Reporting Period: **January 1, 2017 through December 31, 2017**
Report Due Date: **January 16, 2018**

FACILITY INFORMATION (Please make any corrections directly on this form)	
CAFO Operator's Name	Art Venegas
CAFO Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951) 830-7306

ANIMAL POPULATION (Please provide the number of animals in each category)

Milking Cows 90 Dry Cows 18 Heifers 62 Calves 19

Others (specify type and number) 16 Bulls

MANURE INFORMATION Units Used : Tons X Cubic Yards ____

Manure Produced 592 tons Manure Spread on Cropland at Facility 0

Manure Spread on Other Cropland 0

Manure Stockpiled on Site as of 12/31/17 150 tons

Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) 450 tons

Was Manure Amount Calculated Using the Following Factors? Yes X No ____

1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year

*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

NUTRIENT MANAGEMENT PLAN (NMP) AND NUTRIENT ANALYSIS

NMP is Certified Yes_____ No X

Has the most current nutrient analysis been provided to the recipient of the manure?

Yes_____ No X

CROP GROWING ACTIVITY

Number of cropland acres where manure has been applied (Cropland is contiguous to the dairy, where manure was applied and a crop was harvested).

Cropland acres: 9,7 No. of plantings per year: One 1 Two ___ Three ___

Type of crops grown:

Sudan grass_____ Alfalfa_____ Winter wheat_____

Barley_____ Bermuda grass_____ corn_____ Oats X Turf Grass_____

Vegetables_____ Others pumpkins

Actual crop yields_____

Manure application rates_____

Amount of manure spread on each field 0

Number of Milkings per day (Dairies only): One_____ Two X Three_____

COMMENTS:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report **(please print)**: Arthur Verdegas

Signature: Arthur Verdegas

Date: 1-16-18

Title: Operator

Form 2. **Summary Report of Weekly Storm Water Management Structure Inspections**
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2017 through December 31, 2017**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☒ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were water lines inspected daily? Yes ☒ No ☐

Were there any discharges from the facility during the year? Yes ☐ No ☒

If **Yes**, please provide: the date of discharge, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last and volume	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print): Arthur Venegas

Title: Operator

Signature: Arthur Venegas

Date: 1-16-18

Form 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: January 1, 2017 through December 31, 2017

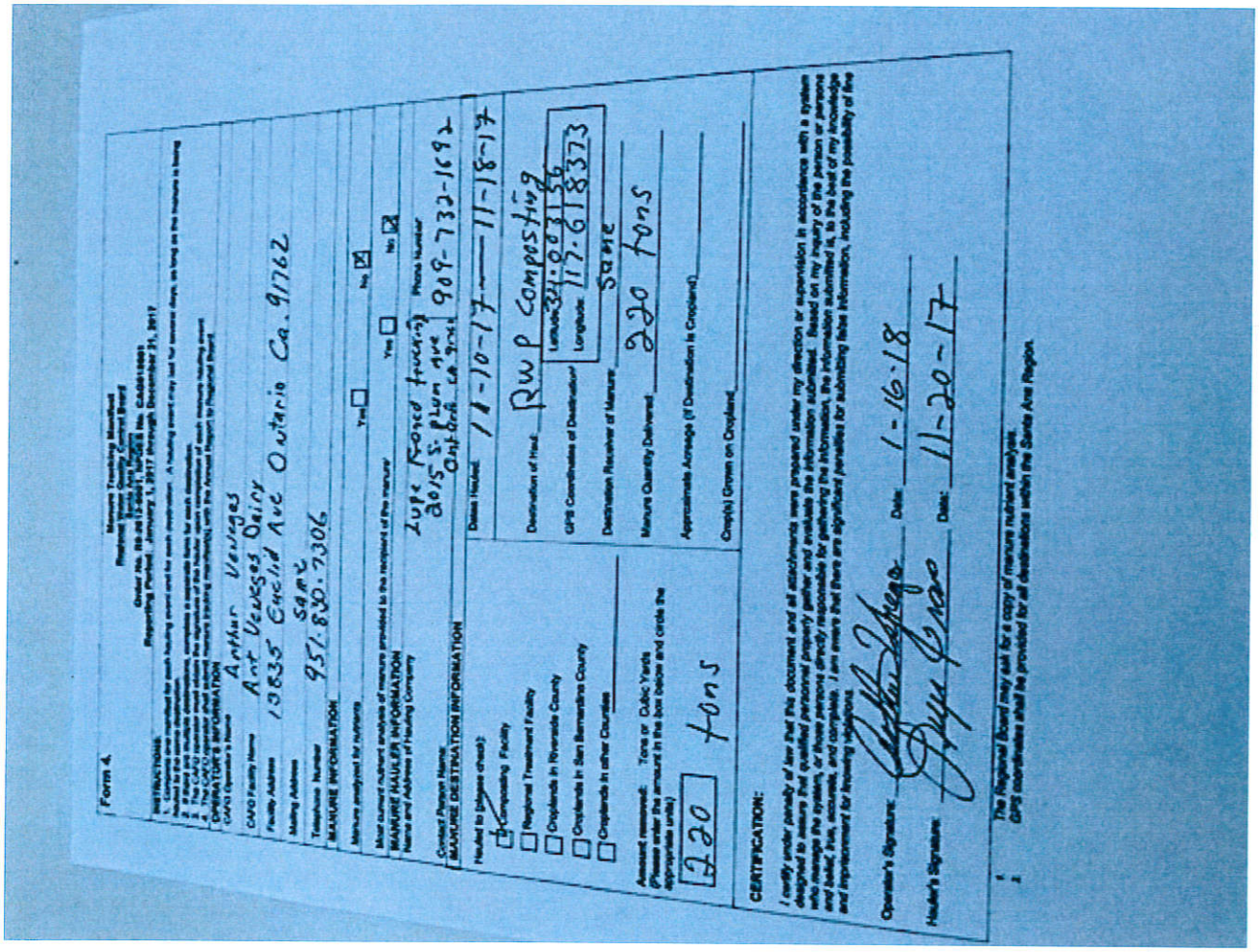
Facility Information (Please make corrections directly on this form)	
Operator's Name:	Art Venegas
Facility Name:	Art Venegas Dairy
Facility Address:	13835 Euclid Avenue, Ontario

Instructions: Use this form to keep track of weekly visual inspections of your process wastewater and storm water containment structures. Document the findings of daily storm event inspections. List the structure items that need to be inspected below (refer to your Engineered Waste Management Plan).

Keep track of your inspections in the attached tables by completing one row each week when you inspect your process wastewater and storm water containment structures. Provide the following information: date of inspection, initials of the person performing the inspection, check "OK" box if no problems were found, use the "Notes" column to describe problems, if you find any, and how they were fixed, record the estimate of the wastewater containment pond(s) freeboard, fill in the "Date Corrected" column with the date when you corrected the problem.

Shami, Jawed@Waterboards

From: Adrian Venegas <farmeradrian@gmail.com>
Sent: Tuesday, January 16, 2018 5:26 PM
To: Shami, Jawed@Waterboards
Subject: Manure tracking manifest



Form 4.

Operator's Signature: Arthur Venegas Date: 1-16-18

Hauler's Signature: Adrian Venegas Date: 11-20-17

Sent from my iPhone

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: January 1 — February 25 - 17

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
1	1.7.17	A.V	✓		3'	
2	1.14.17	A.V	✓		3'	
3	1.21.17	A.V	✓		2.5'	
4	1.28.17	A.V	✓		2.5	
5	2.4.17	A.V	✓		2.5'	
6	2.11.17	A.V	✓		1.8'	
7	2.18.17	A.V	✓		1.5'	
8	2.25.17	A.V	✓		1'	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 3-4-17 —— 4-29-17

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
9	3-4-17	Q.V.	✓		1'	
10	3-11-17	Q.V	✓		2.5'	
11	3-18-17	Q.V.	✓		2.8'	
12	3-25-17	QV	✓		2.8'	
13	4-1-17	QV	✓		3'	
14	4-8-17	QV	✓		3.5'	
15	4-15-17	QV	✓		3.5'	
16	4-22-17	QV	✓		3-8'	
17	4-29-17	QV	✓		3.8'	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 5-6-17 — 7-1-17

Facility Name: Ant Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
18	5.6.17	AV	✓		4'	
19	5.13.17	AV	✓		4.5'	
20	5.20.17	AV.	✓		4.8'	
21	5.27.17	AV	✓		5.2'	
22	6.3.17	AV	✓		5.5'	
23	6.10.17	AV	✓		5'8"	
24	6.17.17	AV	✓		6'	
25	6.24.17	AV	✓		6'.5"	
26	7.1.17	AV	✓		7'	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 7-8-17 — 9-2-17

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
27	7-8-17	AV	✓		7'5"	
28	7-15-17	AV	✓		8'	
29	7-22-17	AV	✓		8'5"	
30	7-29-17	AV	✓		9'	
31	8-5-17	A.V			9.2"	
32	8-12-17	A.V			9'5"	
33	8-19-17	A.V			9.6"	
34	8-26-17	A.V			9'8"	
35	9-2-17	A.V		pond empty	10'	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 9.9.17 — 11.4.17

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
36	9.9.17	AV	✓		10'	
37	9-16-17	AV	✓		10'	
38	9.23.17	AV	✓		10'	
39	9.30.17	AV	✓		10'	
40	10.7.17	AV	✓		10'	
41	10.14.17	AV	✓		10'	
42	10.21.17	AV	✓		9'8"	
43	10.28.17	AV	✓		9'8"	
44	11.4.17	AV	✓		9' 5"	

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: 11·11·17 — 12·30·17

Facility Name: Art Venegas Dairy

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
45	11·11·17	A.V.	✓		9'	
46	11·18·17	A.V.	✓		8' 9"	
47	11·25·17	A.V.	✓		8' 4"	
48	12·2·17	A.V	✓		8' 4"	
49	12·9·17	A.V	✓		8'	
50	12·16·17	A.V.	✓		7'	
51	12·23·17	A.V	✓		8'	
52	12·30·17	A.V	✓		8.5"	

Form 3.

ANNUAL REPORT
Regional Water Quality Control Board
Santa Ana Region
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2014 through December 31, 2014**
Report Due Date: **January 15, 2015**

FACILITY INFORMATION (Please make any corrections directly on this form)	
CAFO Operator's Name	Art Venegas
CAFO Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951) 830-7306

ANIMAL POPULATION (Please provide the number of animals in each category)

Milking Cows 120 Dry Cows 27 Heifers 103 Calves 29

Others (specify type and number) 0

MANURE INFORMATION Units Used : Tons X Cubic Yards ____

Manure Produced 771.7 Manure Spread on Cropland at Facility 0

Manure Spread on Other Cropland 0

Manure Stockpiled on Site as of 12/31/14 150 tons

Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) 760

Was Manure Amount Calculated Using the Following Factors? Yes X No ____

1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year

*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

LOGGED 2-16-15

ENTER DAIRY DB 2-25-15

NUTRIENT MANAGEMENT PLAN (NMP) AND NUTRIENT ANALYSIS

NMP is Certified Yes X No_____

Has the most current nutrient analysis been provided to the recipient of the manure?

Yes X No_____

CROP GROWING ACTIVITY

Number of cropland acres where manure has been applied (Cropland is contiguous to the dairy, where manure was applied and a crop was harvested).

Cropland acres: 40 No. of plantings per year: One X Two ___ Three ___

Type of crops grown:

Sudan grass_____ Alfalfa X Winter wheat_____

Barley_____ Bermuda grass_____ corn_____ Oats_____ Turf Grass_____

Vegetables_____ Others_____

Actual crop yields_____

Manure application rates 0

Amount of manure spread on each field 0

Number of Milkings per day (Dairies only): One_____ Two X Three_____

COMMENTS:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report **(please print)**: Arthur Verjega

Signature: Arthur Verjega

Date: 2.3.14

Title: ~~Owner~~ Operator

Form 4.

Manure Tracking Manifest

Regional Water Quality Control Board
Santa Ana Region
Order No. R8-2013-0001, NPDES No. CAG018001
Reporting Period: January 1, 2014 through December 31, 2014

INSTRUCTIONS:

1. Complete one manifest for each hauling event and for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, complete a separate form for each destination.
3. The CAFO operator must obtain the signature of the hauler upon completion of each manure hauling event.
4. The CAFO operator shall submit manure tracking manifest(s) with the Annual Report to Regional Board.

OPERATOR'S INFORMATION

CAFO Operator's Name: Art Venegas

CAFO Facility Name: Art Venegas Dairy

Facility Address: 13835 Euclid Avenue, Ontario

Mailing Address:

Telephone Number:

MANURE INFORMATION

Manure analyzed for nutrients: Yes ☑ No ☐

Most current nutrient analysis of manure provided to the recipient of the manure[1]: Yes ☒ No ☐

MANURE HAULER INFORMATION

Name and Address of Hauling Company: L. Franco trucking, 2015 S. Plum Ave, Ontario CA 91761

Phone Number: 909-732-1692

Contact Person Name:

MANURE DESTINATION INFORMATION

Hauled to (please check):

- ☑ Composting Facility
- ☐ Regional Treatment Facility
- ☐ Croplands in Riverside County
- ☐ Croplands in San Bernardino County
- ☐ Croplands in other Counties _____

Amount removed: Tons or Cubic Yards
(Please enter the amount in the box below and circle the appropriate units)

424 tons

Dates Hauled: 6-08-14 —— 6-11-14

Destination of Haul: Viramontes Express

GPS Coordinates of Destination[2]: Latitude: 33.937392 Longitude: 117.613473

Destination Receiver of Manure: Same

Manure Quantity Delivered: 424 tons

Approximate Acreage (If Destination is Cropland) _____

Crop(s) Grown on Cropland _____

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: Arthur Venegas Date: 6-30-14

Hauler's Signature: Reyes Franco Date: 6-15-14

1 *The Regional Board may ask for a copy of manure nutrient analysis.*
2 *GPS coordinates shall be provided for all destinations within the Santa Ana Region.*

Form 4.

Manure Tracking Manifest

Regional Water Quality Control Board
Santa Ana Region
Order No. R8-2013-0001, NPDES No. CAG018001
Reporting Period: January 1, 2014 through December 31, 2014

INSTRUCTIONS:

1. Complete one manifest for each hauling event and for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, complete a separate form for each destination.
3. The CAFO operator must obtain the signature of the hauler upon completion of each manure hauling event.
4. The CAFO operator shall submit manure tracking manifest(s) with the Annual Report to Regional Board.

OPERATOR'S INFORMATION

CAFO Operator's Name: Art Venegas

CAFO Facility Name: Art Venegas Dairy

Facility Address: 13835 Euclid Avenue, Ontario

Mailing Address:

Telephone Number:

MANURE INFORMATION

Manure analyzed for nutrients: Yes ☑ No ☐

Most current nutrient analysis of manure provided to the recipient of the manure[1]: Yes ☑ No ☐

MANURE HAULER INFORMATION

Name and Address of Hauling Company: L. Franco trucking, 2015 S. Plum Ave, Ontario CA 91761

Phone Number: 909-732-1692

Contact Person Name:

MANURE DESTINATION INFORMATION

Hauled to (please check):

- ☑ Composting Facility
- ☐ Regional Treatment Facility
- ☐ Croplands in Riverside County
- ☐ Croplands in San Bernardino County
- ☐ Croplands in other Counties _____

Amount removed: Tons or Cubic Yards
(Please enter the amount in the box below and circle the appropriate units)

336 tons

Dates Hauled: 11-17-14 —— 11-20-14

Destination of Haul: Viramontes Express

GPS Coordinates of Destination[2]: Latitude: 33.937372 Longitude: 117.613473

Destination Receiver of Manure: Same

Manure Quantity Delivered: 336 tons

Approximate Acreage (If Destination is Cropland): _____

Crop(s) Grown on Cropland: _____

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: [signature] Date: 11-26-14

Hauler's Signature: [signature] Date: 11-22-14

1 *The Regional Board may ask for a copy of manure nutrient analysis.*
2 *GPS coordinates shall be provided for all destinations within the Santa Ana Region.*

Form 2. **Summary Report of Weekly Storm Water Management Structure Inspections**
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2014 through December 31, 2014**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☒ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were water lines inspected daily? Yes ☐ No ☒

Were there any discharges from the facility during the year? Yes ☐ No ☒

If **Yes**, please provide: the date of discharge, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last and volume	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print): Art Venegas

Title: operator

Signature: Arthur Venega

Date: 2-11-14

2-18-14 ek

Form 3.



Faxed

ANNUAL REPORT
Regional Water Quality Control Board
Santa Ana Region
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2013 through December 31, 2013**
Report Due Date: **January 15, 2014**

FACILITY INFORMATION (Please make any corrections directly on this form)	
CAFO Operator's Name	Art Venegas
CAFO Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario
Mailing Address	13835 Euclid Avenue, Ontario, CA, 91762
Telephone Number	(951) 830-7306

ANIMAL POPULATION (Please provide the number of animals in each category)

Milking Cows 130 Dry Cows 19 Heifers 28 Calves 26

Others (specify type and number) 2 water buffalo

MANURE INFORMATION Units Used: Tons ____ Cubic Yards ____

Manure Produced 233.66 tons Manure Spread on Cropland at Facility 0

Manure Spread on Other Cropland 0

Manure Stockpiled on Site as of 12/31/13 300 tons

Manure Hauled Away (Also provide Manure Tracking Manifests, Form 4) 50 tons

Was Manure Amount Calculated Using the Following Factors? Yes X No ____

1 Milking cow produces approximately 4.1 tons of manure per year
1 Dry cow produces approximately 4.1 tons of manure per year
1 Heifer produces approximately 1.5 tons of manure per year
1 Calf produces approximately 0.6 tons of manure per year

*1 ton of corral manure equals 2.32 cubic yards and 1 cubic yard of corral manure equals 0.43 tons

ENTERED DAIRY DATABASE
2-18-14 ek

NUTRIENT MANAGEMENT PLAN (NMP) AND NUTRIENT ANALYSIS

NMP is Certified Yes_____ No_____

Has the most current nutrient analysis been provided to the recipient of the manure?

Yes _____ No_____

CROP GROWING ACTIVITY

Number of cropland acres where manure has been applied (Cropland is contiguous to the dairy, where manure was applied and a crop was harvested).

Cropland acres: 40 No. of plantings per year: One X Two ___ Three ___

Type of crops grown:

Sudan grass____ Alfalfa X Winter wheat____

Barley____ Bermuda grass____ corn____ Oats____ Turf Grass____

Vegetables____ Others_____

Actual crop yields_____

Manure application rates 0

Amount of manure spread on each field 0

Number of Milkings per day (Dairies only): One____ Two X Three____

COMMENTS:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (**please print**): Arthur Venegas

Signature: Arthur Venega

Date: 2.14.14

Title: operator

Form 4.

Manure Tracking Manifest

Regional Water Quality Control Board
Santa Ana Region
Order No. R8-2013-0001, NPDES No. CAG018001

INSTRUCTIONS:

1. Complete one manifest for each hauling event and for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2. If there are multiple destinations, complete a separate form for each destination.
3. The CAFO operator must obtain the signature of the hauler upon completion of each manure hauling event.
4. The CAFO operator shall submit manure tracking manifest(s) with the Annual Report to Regional Board.

OPERATOR'S INFORMATION

CAFO Operator's Name: ART Venegas

CAFO Facility Name: Art Venegas Dairy

Facility Address: 13835 Euclid Avenue Ontario CA 91762

Mailing Address:

Telephone Number: (951) 830-7306

MANURE INFORMATION

Manure analyzed for nutrients: Yes ☐ No ☒

Most current nutrient analysis of manure provided to the recipient of the manure[1]: Yes ☐ No ☒

MANURE HAULER INFORMATION

Name and Address of Hauling Company: LUPE FRANCO TRUCKING, 2015 S PLUM AVE, ONTARIO CA 91761, (909) 732-1692

Contact Person Name:

Phone Number: (909) 732-1692

MANURE DESTINATION INFORMATION

Hauled to (please check):

- ☑ Composting Facility
- ☐ Regional Treatment Facility
- ☐ Croplands in Riverside County
- ☐ Croplands in San Bernardino County
- ☐ Croplands in other Counties _____

Amount removed: Tons or Cubic Yards
(Please enter the amount in the box below and circle the appropriate units)

510 tons

Dates Hauled: 6-8-13 ——— 6-10-13

Destination of Haul: RWP Composting

GPS Coordinates of Destination[2]: Latitude: 34.013031 Longitude: 117.646539

Destination Receiver of Manure: Same

Manure Quantity Delivered: 510 tons

Approximate Acreage (If Destination is Cropland):

Crop(s) Grown on Cropland:

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: Arthur Venegas Date: 6.12.13

Hauler's Signature: Lupe Franco Date: 6-12-13

Form 2. **Summary Report of Weekly Storm Water Management Structure Inspections**
(Order No. R8-2013-0001, NPDES No. CAG018001)

Reporting Period: **January 1, 2013 through December 31, 2013**

Facility Information (Please make corrections directly on this form)	
Operator's Name	Art Venegas
Facility Name	Art Venegas Dairy
Facility Address	13835 Euclid Avenue, Ontario

Was the CAFO Weekly Storm Water Management Structure Inspections Log Sheet completed for the entire year? Yes ☑ No ☐

If **No**, please explain why the log sheet was not completed for the entire year.

Were water lines inspected daily? Yes ☐ No ☑

Were there any discharges from the facility during the year? Yes ☐ ☒ No

If **Yes**, please provide: the date of discharge, how it was discovered (was it during a routine site inspection?), how long did the discharge last, and how it was stopped.

Date of incident	How was it discovered?	How long did it last and volume	How was it stopped?

Certification:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name of person making this report (please print): Art Venegas

Title: operator

Signature: Arthur Venegas

Date: 2-14-14

April 19, 2012

Mr. Art Venegas
Art Venegas Dairy
13835 Euclid Avenue
Ontario, CA 91762

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

EXPEDITED PAYMENT OPTION NOTICE TO ADDRESS MANDATORY MINIMUM PENALTIES FOR VIOLATIONS OF NPDES PERMIT NO. CAG018001

Mr. Venegas:

This is to notify you that you are alleged to have violated California Water Code (CWC) Section 13385(h) for which the Regional Board shall assess mandatory minimum penalties. This letter outlines an expedited methodology for settling the outstanding violations and the mandatory minimum penalties associated with them.

VIOLATIONS AND STATUTORY AND DISCRETIONARY LIABILITIES:

Pursuant to CWC Section 13385(h)(1), a mandatory penalty of three thousand dollars ($3,000) shall be assessed for each serious violation. CWC Section 13385.1 defines, in part, a serious violation as "...a failure to file a discharge monitoring report required pursuant to Section 13383 for each complete period of 30 days following the deadline for submitting the report..."

The Art Venegas Dairy is covered under General Waste Discharge Requirements for Concentrated Animal Feeding Operations (Dairies and Related Facilities) within the Santa Ana Region, Order No. R8-2007-0001, NPDES No. CAG018001 (General Permit). Attachment B, Sections X.A and X.B, provide specific information on the Reporting Requirements for the Monitoring and Reporting Program of the General Permit. Sections X.A.2 and X.B.2 provide a deadline of January 15 of each year for submitting an Annual Report of Animal Waste Discharge. The Regional Board has determined that Art Venegas Dairy has violated Sections X.A.2 and X.B.2 of the Permit for not submitting the required reports by January 15, 2012 and is therefore subject to mandatory penalties. As of this date, the required Annual Report has not been submitted and therefore Art Venegas Dairy has incurred three 30-day periods of violation (that is non-submittal of Annual Report by February 14, 2012, March 16, 2012, and April 16, 2012). In accordance with CWC Section 13385(h) and Section 13383, the total mandatory penalty for the three 30-day periods is nine thousand dollars (3 x $3,000 = $9,000).

Alternatively, in accordance with CWC Section 13385(c), the Regional Board may impose discretionary administrative civil liability for the violations cited above. The time period for the violations cited above represents 90 days of violation. Consequently, the maximum administrative civil liability which may be imposed for these violations is $900,000 ($10,000 per day of violation).

EXPEDITED PAYMENT PROGRAM:

Generally, the Regional Board would issue a formal administrative civil liability complaint to assess these penalties and conduct a public hearing. To conserve the discharger's as well as Regional Board staff resources, the State Water Resources Control Board, through its Office of Enforcement, has developed a methodology for the discharger to settle these types of violations through an expedited payment program. If Art Venegas Dairy desires to have an expedited settlement as stipulated in Attachment 1, "Acceptance of Conditional Resolution and Waiver of Right to Hearing", the Art Venegas Dairy must sign the Attachment and make a payment of nine thousand dollars ($9,000) to this office. If Art Venegas Dairy accepts this option by executing Attachment 1, Art Venegas Dairy would be also waiving its right to a hearing. The Regional Board will then forgo issuance of a formal administrative complaint and will waive its right to seek additional discretionary civil liabilities for the violations identified above. Please note that the expedited payment option does not address any violation that is not specifically identified in this notice.

ART VENEGAS DAIRY OPTIONS:

1. Accept this offer for expedited payment by signing and returning Attachment 1 by May 3, 2012. Federal regulations require the Regional Board to publish and seek public comments on any proposed settlement of actions related to NPDES permit violations (40 CFR 123.27(d)(2)(iii)). Upon receipt of your acceptance of the expedited payment option (signed Attachment 1), Regional Board staff will publish a notice of the proposed resolution of the violations cited above. If no significant public comments are received within 30 days, the Executive Officer will counter-sign Attachment 1 and it will be returned to you for payment of the mandatory minimum penalty of $9,000 within 30 days of acceptance by the Executive Officer. If significant public comments are received during the public comment period, Board staff will try to address those comments. If the comments cannot be satisfactorily addressed by staff, the expedited payment option will be withdrawn and a formal administrative complaint may be issued and a public hearing may be scheduled at a regularly scheduled Regional Board meeting.

2. If you choose to contest any of the violations cited above, please identify the basis for the challenge (e.g., factual error, affirmative defense, analytical error, etc.) prior to May 3, 2012 and contact Stephen D. Mayville at 951-782-4992. Board staff will evaluate the contested violation and determine that

either the violation is not supported and amend the violation, or determine that the alleged violation is meritorious and inform you of the staff decision. If you are not satisfied with the staff decision, a formal administrative complaint and a public hearing may be considered.

If you have any questions about this letter or the attachments, please contact Stephen D. Mayville at 951-782-4992 (by email to smayville@waterboards.ca.gov), or you may contact Ed Kashak at (951) 782-3292, or ekashak@waterboards.ca.gov

Sincerely,

Robert L. Holub
Division Chief

Enclosures: Attachment 1 (Acceptance of Conditional Resolution and Waiver of Right to Hearing)

cc: w\enclosures (by electronic mail only):

Board Members
Executive Officer (Regional Board Advisory Team)
State Water Resources Control Board, Office of Chief Counsel – David Rice (Regional Board Advisory Team Attorney)
State Water Resources Control Board, Office of Enforcement – Cris Carrigan (Regional Board Prosecution Team Attorney)
Robert Vandenheuvel, Milk Producers Council
Pat Boldt, Milk Producers Council
Jim Griffin, Western United Dairymen

EGK:dairies/ekashak/dairy_annual_reports/mmp_ltrs/venegas_mmp.sdm

Attachment 1

ACCEPTANCE OF CONDITIONAL RESOLUTION AND WAIVER OF RIGHT TO HEARING

Art Venegas Dairy
Order No. R8-2012-0033

By signing and returning this Acceptance of Conditional Resolution and Waiver of Right to Hearing (Acceptance and Order), Art Venegas Dairy hereby accepts the resolution of the mandatory minimum penalty assessments for the violations cited in the Expedited Payment Option Notice, violations of NPDES Permit No. CAG018001, for which mandatory minimum penalties shall be assessed by the Regional Board. By signing the Acceptance and Order, Art Venegas Dairy also waives its right to a hearing before the Regional Board.

Art Venegas Dairy agrees that the Expedited Payment Option Notice and Attachment 1 together will serve as a Complaint pursuant to Article 2.5 of the California Water Code (CWC) and that no separate Complaint is required by the Regional Board to assert jurisdiction over the alleged violations. Art Venegas Dairy agrees to pay the mandatory minimum penalty of $9,000 as shown in the Expedited Payment Option Notice dated April 19, 2012, which shall be deemed payment in full for the violations listed in the Notice, pursuant to CWC Section 13385.

Art Venegas Dairy understands that pursuant to 40 CFR Section 123.27(d)(2)(iii), the Regional Board is required to provide public notice for at least 30 days and seek comments of any settlement agreement with the Art Venegas Dairy related to the NPDES permit violations, prior to the Executive Officer executing any settlement agreements such as this Acceptance and Order. Art Venegas Dairy understands that if significant comments are received, this Acceptance and Order may not be executed and the offer for expedited payment and settlement may be withdrawn and the Regional Board may choose to take formal enforcement action.

Art Venegas Dairy understands that once this Acceptance and Order is executed by the Executive Officer of the Regional Board, payment is due within 30 days and a check for $9,000 made payable to the State Water Resources Control Board, for deposit in the State Water Pollution Cleanup and Abatement account, shall be submitted to the Regional Board office.

Art Venegas Dairy understands that this Acceptance and Order only addresses the violations cited in the Expedited Payment Option Notice.

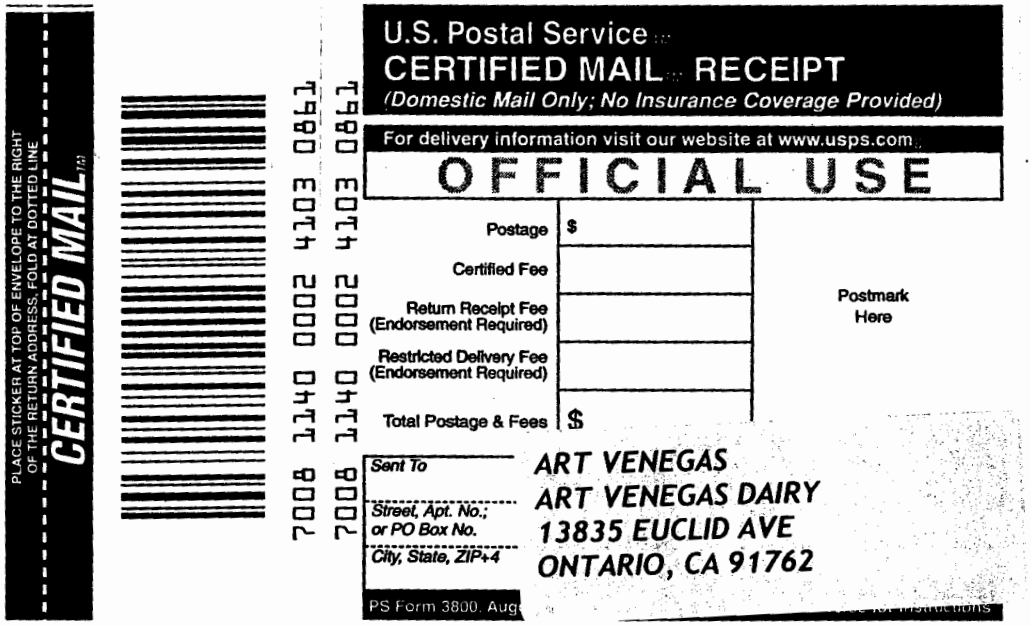
I hereby affirm that I am duly authorized to act on behalf of and to bind the Art Venegas Dairy in the making and execution of this Acceptance and Order.

Name and Title of the Person Signing on behalf of Art Venegas Dairy (Print)

Signature Date

IT IS SO ORDERED PURSUANT TO CALIFORNIA WATER CODE SECTION 13385

Signature Date
Kurt V. Berchtold, Executive Officer
Santa Ana Regional Water Quality Control Board


PLACE STICKER AT TOP OF ENVELOPE TO THE RIGHT OF THE RETURN ADDRESS, FOLD AT DOTTED LINE
CERTIFIED MAIL
7008 1140 0002 4103 0861
7008 1140 0002 4103 0861
U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)
For delivery information visit our website at www.usps.com
OFFICIAL USE
Postage $
Certified Fee
Return Receipt Fee (Endorsement Required)
Restricted Delivery Fee (Endorsement Required)
Total Postage & Fees $
Postmark Here
Sent To
Street, Apt. No.; or PO Box No.
City, State, ZIP+4
ART VENEGAS
ART VENEGAS DAIRY
13835 EUCLID AVE
ONTARIO, CA 91762
PS Form 3800, Aug

SANTA ANA REGIONAL WATER QUALITY CONTROL BOARD
INSPECTION REPORT

OFFICE NO: **8**

INSPECTOR: **EGK**

PCA SYSTEM TASK NO.: **10230**

8365975001	**Art Venegas**	**Art Venegas Dairy**
WDID No.	OWNER NAME	FACILITY NAME
CAG018001	**13835 Euclid Avenue**	**13835 Euclid Avenue**
NPDES No.	OWNER ADDRESS	FACILITY ADDRESS
	Ontario, CA 91762	**Ontario, CA 91762**
Sched Date	OWNER CITY, STATE & ZIP	FACILITY CITY, STATE & ZIP
5-6-14	**Art Venegas**	**Art Venegas**
Actual Date Inspected	OWNER CONTACT	FACILITY CONTACT
	951-830-7306	**951-830-7306**
	OWNER PHONE NO.	FACILITY PHONE NO.

S Inspection Agency (S=STATE, J=JOINT STATE/USEPA)

INSPECTION TYPE (Check One)

A1___ "A" type compliance--Comprehensive inspection in which samples are taken. (EPA Type S)
B1_**X**_ "B" type compliance--A routine nonsampling inspection. (EPA Type C)
02___ Noncompliance follow-up--Inspection made to verify correction of a previously identified violation.
03___ Enforcement follow-up--Inspection made to verify that conditions of an enforcement action are being met.
04___ **C**omplaint--Inspection made in response to a complaint.
05___ Pre-requirement--Inspection made to gather info. relative to preparing, modifying, or rescinding requirements.
06___ Miscellaneous--Any inspection type not mentioned above. If this is an EPA inspection not mentioned above please note type. (e.g. biomonitoring, performance audit, diagnostic, etc.)

N Were violations noted during this inspection? (Yes/No/Pending Sample Results)
N Was this a Quality Assurance-Based inspection?
N Were bioassay samples taken? (N=no) If YES then, S= Static or F= Flow through.
N Were water quality samples collected?

INSPECTION SUMMARY

The overall facility rating, on a 1 (unreliable) to 5 (reliable) scale, was determined to be 3 = Satisfactory.

Corral manure ~~ 3-5 inches. Several large manure piles in corrals. Pond/pasture area maintenance is adequate. Housekeeping is marginal.

INITIALS: **EGK** SIGNATURE: Edward Kashak DATE: **5-9-14**

For Internal Use: Reviewed by: (1)_____ (2)_____ (3) Regional WDS Coordinator

CIWQS Entry Date: **5-9-14** CIWQS Inspection ID: **16269015**

HISTORICAL INFORMATION (MOST RECENT):

Order No.	Adopted Date	Permit Type	Inspect Date	Inspection Type	Inspection Violations	Inspection Violation Type	Violation Date
R8-2007-0001	/7/07	NPDES					

REVIEW OF FACILITY'S MOST RECENT ANNUAL REPORT

ANNUAL REPORT FOR: Jan 1, 2013 – Dec 31, 2013

ANIMAL POPULATION

Milk Cows: 13# Dry Cows: 19 Heifers: 28 Calves: 26 Other: 2

MANURE INFORMATION

Units used: tons

Amount of manure spread on cropland at the facility:

Amount of manure hauled away from the facility:

Name(s) and address(es) of manure destination:

ENGINEERED WASTE MANAGEMENT PLAN (EWMP) REVIEW

Did the inspector review the most recent EWMP on file? **YES**

Did the facility operator have a copy of the EWMP available onsite?

Date EWMP originally prepared:

EWMP prepared by:

Regional Board EWMP Acceptance Date:

EWMP Certification Letter Date and Source:

Was EWMP fully implemented?

If not, list structures missing or deficient:

Other information related to the EWMP:

INSPECTION OBSERVATIONS

ANIMALS ONSITE DURING INSPECTION;

Milk Cows: 150 Dry Cows: # Heifers: # Calves: Other: #

Several manure piles in some corrals. Corrals contained about 3-5 inches manure. Housekeeping in corrals was marginal. Pasture field was well maintained. Berm integrity appeared adequate. No mortalities observed. Rodent activity was minimal.

ADDITIONAL COMMENTS, SPECIAL INSTRUCTIONS, FUTURE INSPECTION FOLLOW UP ETC.
Discussion. **No further action**



5-6-14 View south from north corral area. Manure piles in corrals.



5-6-14 View east from north corral area. Small manure piles in corrals.



5-6-14 View west from east corral area. Manure piles in corrals (background).



5-6-14 View south from east commodity area. View of south pasture area.



5-6-14 View north from east commodity area. Manure piles in corrals.



5-6-14 View north from east commodity area.

PHONE RECORD

DATE: 5-14-2019
Time: 9:07 AM
Contact: Art Venegas
Spoke to
Number: 951.830.7306
Email:

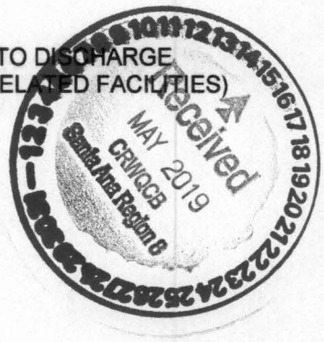
Missing Notice's of Intent for Art Venegas Dairy

Regional Board staff attempted to contact Art Venegas regarding the missing Notice of Intent for Art Venegas Dairy. No answer from the listed contact number. Voice mail was left stating that this call is to remind Art Venegas that the Regional board had not received a NOI for the 2018 permit adoption. Contact information was left including phone number and email address.

Staff: Kyle Wright

NOTICE OF INTENT

TO COMPLY WITH THE TERMS AND CONDITIONS OF THE GENERAL PERMIT TO DISCHARGE WASTES FROM CONCENTRATED ANIMAL FEEDING OPERATIONS (DAIRIES AND RELATED FACILITIES)
(Order No. R8-2018-0001, NPDES No. CAG018001)



PERMITTEE (*Person/Agency Responsible for Discharge*)

Owner/Operator Name: Art Venegas

Mailing Address: 13835 Euclid Ave. Ontario CA. 91762

Contact Person: Art Venegas Phone (951) 830-7306

E-mail Art117@sbcglobal.net

FACILITY (Physical Address)

Name: Art Venegas Dairy

Location: 13835 Euclid Ave Ontario CA. 91762

Contact Person: Art Venegas Phone (951) 830-7306

FACILITY INFORMATION

Latitude: 34.0035814 Longitude: -117.6506947

Topographic Map of Facility ___Yes ✓No

Total area (acres) 60 Cropland (acres) 25 Corrals (acres) 15

Disposal/Pasture (acres) 20 Number of acres contributing drainage 60

ANIMAL POPULATION (*specify number*)

Milking Cows 90 Dry Cows 12 Heifers 40

Calves 18 Other (specify type) _____

MANURE, LITTER AND/OR WASTEWATER PRODUCTION AND USE

How much manure, litter, and wastewater is produced annually? 650 tons 10 acre-feet gallons

If land applied, how many acres of land under the control of permittee are available for applying manure/litter/wastewater? 25 acres

How many tons of manure or litter or gallons of wastewater produced will be transferred annually to other persons? 650 tons 0 gallons

TYPE OF CONTAINMENT AND CAPACITY

Holding Ponds (gallons) _____ Evaporation Ponds (gallons) 10 acre-feet

Lagoons (gallons) _____ Other (specify type) _____

TYPE OF STORAGE

Anaerobic Lagoon:	Total number of days _____	Total capacity _____
Storage Lagoon:	Total number of days _____	Total capacity _____
Evaporation Pond:	Total number of days 365	Total capacity 10 acre feet
Aboveground Storage Tanks:	Total number of days _____	Total capacity _____
Belowground Storage Tanks:	Total number of days _____	Total capacity _____
Roofed Storage Shed:	Total number of days _____	Total capacity _____
Concrete Pad:	Total number of days _____	Total capacity _____
Impervious Soil Pad:	Total number of days _____	Total capacity _____
Other (specify):	Total number of days _____	Total capacity _____

NUTRIENT MANAGEMENT PLAN (NMP)

Will you comply with an existing, approved NMP for this facility? ✓ Yes ____ No

Date of last approved review/revision of the NMP Date: 1-26-18

Are you submitting a new or amended NMP for approval for this facility? ____ Yes ✓ No

Is the new or amended NMP enclosed? ____ Yes ✓ No

If no, please explain _____

ENGINEERED WASTE MANAGEMENT PLAN (EWMP)

Will you comply with an existing, approved EWMP for this facility? ✓ Yes ____ No

Date of last approved review/revision of the EWMP Date: Jan. 2018

Are you submitting a new or amended EWMP for approval for this facility? ____ Yes ✓ No

Is the new or amended EWMP enclosed? ____ Yes ____ No

If no, please explain _____

CERTIFICATION:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations

SIGNATURE OF OWNER OF FACILITY	SIGNATURE OF OPERATOR OF FACILITY
PRINT OR TYPE NAME	PRINT OR TYPE NAME: Arthur Venegas
TITLE AND DATE	TITLE AND DATE: Operator

California Regional Water Quality Control Board
Santa Ana Region

Linda S. Adams
Secretary for
Environmental Protection

3737 Main Street, Suite 500, Riverside, California 92501-3348
Phone (951) 782-4130 • FAX (951) 781-6288 • TDD (951) 782-3221
www.waterboards.ca.gov/santaana

Arnold Schwarzenegger
Governor

May 17, 2010

Certified Mail
Return Receipt Requested

Art Venegas
Art Venegas Dairy
13835 Euclid Avenue
Ontario, CA 91762

WASTE DISCHARGE REQUIREMENTS, ORDER NO. R8-2007-0001, NPDES NO. CAG018001, FOR ART VENEGAS DAIRY, LOCATED AT 13835 EUCLID AVENUE, ONTARIO

Mr. Venegas:

On September 7, 2007, the Regional Board adopted General Waste Discharge Requirements for Concentrated Animal Feeding Operations (Dairies and Related Facilities) Within the Santa Ana Region, NPDES No. CAG018001 (Order No. R8-2007-0001). Section II, Part B.3, of Order No. R8-2007-0001, requires the submittal of a Notice of Intent and filing fee for the discharge of wastes. If the proposed discharge meets the requirements of Order R8-2007-0001, the Executive Officer will provide the discharger with a written authorization to discharge wastes in accordance with the terms and conditions specified in Order No. R8-2007-0001.

You have submitted a Notice of Intent and filing fee for the discharge of wastes from the above facility. With receipt of your Notice of Intent and filing fee, you have complied with Section II, Part B.3, of Order No. R8-2007-0001. Therefore you are hereby authorized to discharge waste from your facility in accordance with the terms and conditions specified in Order No. R8-2007-0001.

Order No. R8-2007-0001 includes provisions, in part, that:

1) Prohibit the land application of manure anywhere in the Santa Ana Region for disposal purposes.
2) Prohibit the land application of manure as fertilizer in certain areas of the Region, and limit the land application of manure as fertilizer in the remainder of the Region.
3) Require all facility operators to develop and implement an Engineered Waste Management Plan (EWMP).
4) Require all manure scraped from corrals be removed from the facility within 180 days.
5) Require large CAFOs (greater than 700 cows) that transfer manure to a third party to provide that party with a chemical analysis of the manure for nitrogen compounds.

6) Require you to inspect your facilities on at least a weekly basis, and record the findings in the enclosed log form.
7) Require the tracking of all manure removed from the facility. Please use the enclosed form for all manure which is hauled from your facility.
8) Require you to submit the following reports by January 15 of each year:
   - Annual Summary Report (the form will be transmitted to you near year end)
   - Annual Summary Report of Storm Water Management Structure Inspections (i.e. a summary from the weekly inspection logs mentioned above. The form will be transmitted to you near year end)
   - New Manure Tracking Manifest (form enclosed)

Our records indicate that an EWMP for this facility was accepted on September 28, 2005. After an accepted EWMP is implemented, a certification letter indicating that the EWMP was implemented must be submitted to our office. As of this date, we have not received a certification letter that the accepted EWMP was implemented.

If you intend to develop a new EWMP or modify the accepted EWMP please submit the name of the engineer or qualified individual who will develop the EWMP and a time schedule to develop or modify the EWMP. If you intend to use the current accepted EWMP, a certification letter from the engineer who developed the EWMP, must be submitted to our office.

Please note that failure to fully develop and implement an EWMP and submit an implementation certification for this facility is a violation of Order No. R8-2007-0001, which could subject you to an administrative civil liability penalty of $10,000 per day for each day the violation occurs. To avoid a possible enforcement action by the Regional Board, please submit the above requested information by June 1, 2010.

As a reminder, a copy of the Order No. R8-2007-0001 can be downloaded from the Regional Board's website at: ***http://www.waterboards.ca.gov/santaana/pdf/07-01.pdf***. If you have any questions, I would encourage you to call Ed Kashak at (951) 782-3292 or Jawed Shami at (951) 782-3288.

Sincerely,

For Gerard J. Thibeault
Executive Officer

Enclosures: Storm Water Management Structure Inspection Form
New Manure Tracking Manifest Form

cc w/o enclosure: Robert Vanden Heuvel, Milk Producers Council
Pat Boldt, Milk Producers Council
Jim Griffin, Western United Dairymen
Lawyers for Clean Water
Orange County Coastkeeper
David Beckman, Natural Resources Defense Council
Min-Le Cheng, West Valley Mosquito & Vector Control District
Northwest Mosquito & Vector Control District

EGK:dairies/ekashak/dairy_ltrs/dal/venegas_euclid

ATTACHMENT 1. CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Information (Please make corrections directly on this form.)
Operator's Name:
Facility Name:
Facility Address:

Instructions: Use this form to keep track of weekly visual inspections of your process wastewater and storm water containment structures. Use this form to document the findings of daily storm event inspections. List the items that need to be inspected below (refer to your Engineered Waste Management Plan).

Keep track of your inspections in the following table by filling out one row each week when you inspect your process wastewater and storm water containment structures. Provide the following information: date of inspection, initials of the person performing the inspection, check "OK" box if no problems were found, use the "Notes" column to describe problems, if you find any, and how they were fixed, record the estimate of the wastewater containment pond(s) freeboard, fill in the "Date Corrected" column with the date when you corrected the problem.

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
1						
2						
3						
4						
5						
6						
7						
8						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
9						
10						
11						
12						
13						
14						
15						
16						
17						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
18						
19						
20						
21						
22						
23						
24						
25						
26						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
27						
28						
29						
30						
31						
32						
33						
34						
35						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
36						
37						
38						
39						
40						
41						
42						
43						
44						

CAFO Weekly Storm Water Management Structure Inspections Log Sheet

Reporting Period: _____

Facility Name: _____

Week	Date	Initials	OK	Notes (Note any problems found and how problems were remedied)	Waste Pond Freeboard	Date Corrected
45						
46						
47						
48						
49						
50						
51						
52						

Manure Tracking Manifest

Santa Ana Regional Water Quality Control Board

Instructions

1) Complete one manifest for each hauling event, for each destination. A hauling event may last for several days, as long as the manure is being hauled to the same destination.
2) If there are multiple destinations, **complete a separate form for each destination**.
3) The **operator** must obtain the signature of the hauler upon completion of each manure hauling event.
4) The **operator** shall submit manure tracking manifest(s) with the Annual Report of Animal Waste Discharge to the Santa Ana Regional Water Quality Control Board.

Operator Information

Name of the Operator:

Name of Facility:

Facility Address:

Mailing Address:

Phone Number:

Manure Hauler Information

Name of Hauling Company and Contact Person:	Phone Number:

Destination Information

Hauled To (please check one):

- ☐ Composting Facility
- ☐ Regional Digester
- ☐ Riverside County
- ☐ San Bernardino County
- ☐ Other County: _____

Dates Hauled:

Please give the name and location of the composting operation, or, if the manure was hauled to cropland, the owner or tenant, and the destination address, or nearest cross streets.

Please enter the amount in the box below and circle the appropriate units:

Amount Removed from Facility:	Amount Composted:	Amount to Digester:
☐ Tons or Cubic Yards	☐ Tons or Cubic Yards	☐ Tons or Cubic Yards

Certification

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Operator's Signature: _____ Date: _____

Hauler's Signature: _____ Date: _____

Last Revised 12/04

City of Ontario

BUILDING DEPARTMENT

303 EAST "B' STREET, CIVIC CENTER, ONTARIO, CALIFORNIA91764-4196
TELEPHONE: (909) 395-2023 FAX: (909) 395-2180

METHANE ASSESSMENT FOR PROJECTS IN THE NEW MODEL COLONY

Applicants shall provide for the Building Department's review and approval, a methane assessment report addressing whether the property in questions was ever used as a dairy, poultry ranch, hog ranch, livestock feed operation site, manure stockpile site, manure/livestock burial site, run-off ponds, or for any other purpose that might result in the deposition of materials which might produce methane.

The report shall be prepared by a licensed engineer or licensed geologist and shall include the following:

- Historic aerial photos and historic topographic map review.
- Interviewing the owner/land managers for possible locations of potential methane generation areas.
- Site reconnaissance to determine the current site usage and conditions.
- Identifying potential methane areas.
- A proposed scope of work for post-grading methane investigation based on the historical study.

This report may be included as part of the soils and geology report and shall be submitted to the Building Department for review and approval at the time building permit applications are filed.

All lots in potential methane areas identified in the Methane Site Assessment report shall be tested for the presence of any methane and its concentration 30 days after building pads are graded and created.

A report, prepared by a licensed engineer or geologist and separate from the Methane Site Assessment report, summarizing the methane test conducted, the location/lot where methane is found and its concentration, and the recommended mitigation measures shall be submitted to the Building Department for review and approval. This test report could be a standalone report or be a part of the soils and geology report. This test report should be submitted together with building plans when permit applications are filed, or thereafter as soon as it is available. No building permit will be issued until the test report is approved by the Building Department, and the lots with methane and any required mitigation measures are shown on building plans.

METHANE DESIGN GUIDELINES

Measured Methane Concentration (ppm)	Minimum Mitigation Guidelines
< 15,000	Provide a 10-mil moisture barrier. Seal utility conduits and other penetration in an approved method.
> 15,000	Provide a 10-mil moisture barrier. Seal utility conduits and other penetration in an approved method. Also include any remediation required by the Engineer of record.
Waste, Burial Site, Pond, Lowland	Require methane report prepared by a licensed engineer or geologist on required remediation.

Appendix G -

Owner Provided Documents

SITE NUMBER: LA8008
(CLU4428 / LSANCA8008)
SITE NAME: SCE CHINO
CHINO-MIRA LOMA #1, 220KV, M231-T2N, (BUILT 1940)

Conceptually Approved
Zoning Drawings.

REVIEWED
By Orlando D Cosme at 7:04 am, Oct 01, 2018

at&t

PROJECT: LTE-4C/5C/4T4R/SWE
SITE TYPE: SCE TOWER
SITE ADDRESS: 13835 EUCLID AVENUE
ONTARIO, CA 91762
DISTRICT/ZONE: 4C
LTE-4C/ PACE #: MRLOS046279/ PA#: 3551A0DYEB
LTE-5C/ PACE #: MRLOS046513/ PA#: 3551A0DYD0
4T4R/ PACE#: MRLOS046484/ PA#: 3551A0DYQL
4T4R/ PACE#: MRLOS045763/ PA#: 3551A0DYM2
SWE/ PACE#: MRLOS046366/ PA#: 3551A0DYTF

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES.

1. 2016 CALIFORNIA ADMINISTRATIVE CODE
2. 2016 CALIFORNIA BUILDING CODE
3. 2016 CALIFORNIA ELECTRIC CODE
4. 2016 CALIFORNIA MECHANICAL CODE
5. 2016 CALIFORNIA PLUMBING CODE
6. 2016 CALIFORNIA FIRE CODE
7. ANY LOCAL BUILDING CODE AMENDMENTS TO THE ABOVE
8. CITY/COUNTY ORDINANCES

HANDICAP REQUIREMENTS:

FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS NOT REQUIRED IN ACCORDANCE WITH CALIFORNIA ADMINISTRATIVE STATE CODE PART 2, TITLE 24, CHAPTER 11B, SECTION 11038.

ENGINEERING

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS NEW.

GENERAL NOTES

DIGALERT
DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG
TOLL FREE 1-800-227-2600
A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

PROPERTY OWNER:	SOUTHERN CALIFORNIA EDISON (SCE) 244 WALNUT GROVE AVE. ROSEMEAD CA 90221
APPLICANT: ADDRESS:	AT&T 1452 EDINGER AVE. TUSTIN, CA 92780
LATITUDE (NAD 83):	34° 00' 06.50" N 34.00186 N
LONGITUDE (NAD 83):	-117° 39' 00.29" W -117.65001 W
LONGITUDE/LATITUDE TYPE:	NAD 83
GROUND ELEVATION (NAVD 88):	710.3' AMSL
APN #:	1053-071-01
ZONING JURISDICTION:	CITY OF ONTARIO
CURRENT ZONING:	U-C (UTILITY CORRIDOR)
EXISTING USE:	UNMANNED TELECOMMUNICATIONS FACILITY

SITE INFORMATION

PROJECT MANAGER:
AT&T
1452 EDINGER AVE.
TUSTIN, CA 92780
CONTACT: RYAN YOUNG
PHONE: (714) 488-4029
EMAIL: ry456p@att.com

ENGINEER:
EUKON GROUP
65 POST, SUITE 1000
IRVINE, CA 92615
CONTACT: JEFF JACOBS
PHONE: (949) 553-8566
EMAIL: jeff.jacobs@eukongroup.com

LEASING:
EUKON
630 S. GRAND, SUITE 101
SANTA ANA, CA 92705
CONTACT: SAMANTHA KAFOVALU
EMAIL: samantha.kafovalu@eukongroup.com

ZONING:
EUKON
630 S. GRAND, SUITE 101
SANTA ANA, CA 92705
CONTACT: SAMANTHA KAFOVALU
EMAIL: samantha.kafovalu@eukongroup.com

RF ENGINEER:
AT&T
1452 EDINGER AVE.
TUSTIN, CA 92780
CONTACT: SYED ZAIDI
PHONE: (682) 552-8260
EMAIL: sz505x@att.com

CONSTRUCTION:
ERICSSON
330 COMMERCE
IRVINE, CA 90602
CONTACT: JUSTIN RYNEARSON
PHONE: (408) 621-1782
EMAIL: justin.ryneorson@ericsson.com

PROJECT TEAM



VICINITY MAP



AERIAL

DIRECTIONS FROM AT&T OFFICE: HEAD SOUTHEAST ON EDINGER AVE TOWARD RED HILL AVE. TURN RIGHT ONTO DEL AMO AVE/NEWPORT AVE. TAKE RAMP LEFT FOR CA-55 N. TAKE RAMP RIGHT FOR CA-55 N TOWARD CHAPMAN AVE. KEEP STRAIGHT INTO CA- 91 E AT EXIT 45, TAKE RAMP RIGHT FOR CA-71 NORTH TWARD ONTARIO/POMONA. AT EXIT 4, TAKE RAMP RIGHT AND FOLLOW SIGNS FOR CA-83. KEEP STRAIGHT ONTO CA-83/EUCLID AVE. ARRIVE AT 13835 EUCLID AVE, ONTARIO, CA 91762

DRIVING DIRECTIONS

IF USING 11"X17" PLOT, DRAWINGS WILL BE HALF SCALE

CONSTRUCTION DRAWING

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.

APPROVED BY:	INITIALS:	DATE:
AT&T RF ENGINEER:		
AT&T OPERATIONS:		
SITE ACQUISITION MANAGER:		
PROJECT MANAGER:		
ZONING VENDOR:		
LEASING VENDOR:		
CONSTRUCTION MANAGER:		
A/E MANAGER:		
PROPERTY OWNER:		

APPROVALS

AT&T WIRELESS PROPOSES TO MODIFY AN EXISTING WIRELESS INSTALLATION. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- REMOVE (6) EXISTING 4' PANEL ANTENNAS AT EXISTING SCE TOWER
- REMOVE (6) EXISTING TMA's AT EXISTING SCE TOWER
- REMOVE (1) EXISTING AT&T RBS GSM CABINET AT GRADE
- REMOVE (1) EXISTING AT&T RXAIT CABINET
- REMOVE (2) DUS-41 INSIDE EXISTING PURCELL CABINET AT GRADE
- REMOVE (3) EXISTING AT&T RRUS-11 MOUNTED ON WALL AT GRADE
- REMOVE (6) EXISTING AT&T DIPLEXERS AT GRADE
- REMOVE (3) EXISTING AT&T RRUS-12 AT GRADE
- REMOVE (3) EXISTING RRUW-01 AT GRADE
- INSTALL (6) NEW 4' PANEL ANTENNAS AT EXISTING SCE TOWER
- INSTALL (6) NEW TMAS AT EXISTING SCE TOWER
- INSTALL (6) NEW RRUS-32 AT GRADE
- INSTALL (3) NEW RRUS-4478 B14 AT GRADE
- INSTALL (3) NEW RRUS-4426 B66 AT GRADE
- INSTALL (1) NEW BBU 5216 INSIDE EXISTING PURCELL CABINET AT GRADE
- INSTALL (2) NEW AT&T XMU'S INSIDE EXISTING PURCELL CABINET AT GRADE
- INSTALL (1) NEW AT&T RBS 6601 V2 CHASSIS INSIDE EXISTING PURCELL CABINET AT GRADE
- INSTALL (1) NEW AT&T POWER PLANT AT GRADE
- INSTALL (6) NEW RECTIFIERS & (12) NEW BATTERIES INSIDE NEW POWERPLANT
- INSTALL (1) NEW DC12 SURGE SUPPRESSOR AT GRADE
- INSTALL (6) NEW LINES OF COAX FROM EQUIPMENT LOCATION TO TOWER
- INSTALL NEW DIPLEXERS AT GRADE

PROJECT DESCRIPTION

SHEET	DESCRIPTION	REV.
T-1	TITLE SHEET	2
T-2	GENERAL NOTES, LEGEND AND ABBREVIATIONS	2
T-3	GENERAL SIGNAGE	2
A-1	SITE PLAN	2
A-2	EXISTING AND NEW EQUIPMENT LAYOUT	2
A-3	EXISTING AND NEW ANTENNA PLAN	2
A-3.1	EXISTING AND NEW ANTENNA AND RRU SCHEDULES	2
A-4	EXISTING AND NEW NORTH ELEVATION	2
A-5	EXISTING AND NEW EAST ELEVATION	2
A-6	EXISTING AND NEW WEST ELEVATION	2
A-7	EXISTING AND NEW SOUTH ELEVATION	2
A-8	EQUIPMENT AND CONSTRUCTION DETAILS	2
A-9	EQUIPMENT AND CONSTRUCTION DETAILS	2

SHEET INDEX

SUBCONTRACTOR SHALL VERIFY ALL PLANS & EXISTING DIMENSIONS & CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DO NOT SCALE DRAWINGS

APPLICANT:

The new at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ENGINEER:

Eukon
an SFC Communications, Inc. Company
65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

DRAWN BY:	ER/CA/EC/AC
CHECKED BY:	JJD/LM

REVISIONS:

REV	DATE	DESCRIPTION
2	09/11/18	SCE COMMENTS
1	06/18/18	SCE COMMENTS
0	02/08/18	100% CONSTRUCTION DRAWING
A	11/28/17	90% CONSTRUCTION DRAWING

LICENSER:

REGISTERED PROFESSIONAL ENGINEER
CHRIS S. LEE
76549
CIVIL
STATE OF CALIFORNIA

PROJECT INFORMATION:

LA8008
SCE CHINO
13835 EUCLID AVE.
ONTARIO, CA 91762

SHEET TITLE:

TITLE SHEET

SHEET NUMBER:

T-1

NEW ANTENNA
EXISTING ANTENNA
GROUND ROD
GROUND BUS BAR
MECHANICAL GRND. CONN.
CADWELD
GROUND ACCESS WELL
ELECTRIC BOX
TELEPHONE BOX
LIGHT POLE
FND. MONUMENT
SPOT ELEVATION
SET POINT
REVISION
GRID REFERENCE
DETAIL REFERENCE
ELEVATION REFERENCE
SECTION REFERENCE

GROUT OR PLASTER
(E) BRICK
(E) MASONRY
CONCRETE
EARTH
GRAVEL
PLYWOOD
SAND
WOOD CONT.
WOOD BLOCKING
STEEL
CENTERLINE
PROPERTY/LEASE LINE
MATCH LINE
WORK POINT
GROUND CONDUCTOR
COAXIAL CABLE
OVERHEAD SERVICE CONDUCTORS
CHAIN LINK FENCING
OVERHEAD TELEPHONE/OVERHEAD POWER
OVERHEAD TELEPHONE LINE
OVERHEAD POWER LINE
POWER RUN
FIBER/POWER RUN

TELCO RUN
POWER/TELCO RUN
GROUNDING CONDUCTOR
GROUNDING CONDUCTOR
CONDUIT UNDERGROUND
FUSE, SIZE AND TYPE AS INDICATED.
SAFETY SWITCH, 2P-240V-60A W/60A FUSES, NLMA 3R ENCLOSURE, SO D CATALOG NO. H222NRB
MANUAL TRANSFER SWITCH, 2P-240V-200A, NO FUSE, NEMA 3R ENCLOSURE
LIGHTING FIXTURE, FLUORESCENT, 10.94" x 4'-0", 2/40W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #WSW232T
LIGHTING FIXTURE, FLUORESCENT, 10.94" x 8'-0", 2/95W, SURFACE MOUNTING TYPE, HUBBELL LIGHTING CATALOG #TWSM232T
LIGHTING FIXTURE, HIGH PRESSURE SODIUM, 1/70W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #NRG-307 OR 1/50W, HUBBELL LIGHTING CATALOG #NRG-121
EXIT SIGN, THERMOPLASTIC LED, SINGLE FACE, UNIVERSAL MOUNTING, W/BATTERY PACK, HUBBELL LIGHTING CATALOG #PRB
COMBINATION, EXIT SIGN & EMERGENCY LIGHTING, HUBBELL LIGHTING CATALOG #PRC
EMERGENCY LIGHTING, 2/50W, HUBBELL LIGHTING CATALOG #HE6-50-2-R91
LIGHTING FIXTURE, INCANDESCENT, 1/100W, WALL MOUNTING TYPE, HUBBELL LIGHTING CATALOG #BRH-100-06-1
LIGHTING FIXTURE, HALOGEN, QUARTZ, 1/300W, HUBBELL LIGHTING CATALOG #OL-505
LIGHTING FIXTURE, 1/175W, METAL HALIDE, HUBBELL CAT #MIC-0175H-336
5/8" X 10'-0" ,CU. GND ROD 30" MIN. BELOW GRADE.

5/8" X 10'-0" ,CU. GND ROD IN TEST WELL 30" MIN. BELOW GRADE.
CHEMICAL GROUND ROD (XIT GROUND ROD)
CADWELD CONNECTION
MECHANICAL CONNECTION
HALO GROUND CONNECTION
CIRCUIT BREAKER
UTILITY METER BASE
TRANSFORMER
STEPDOWN TRANSFORMER
RECEPTACLE, 2P-3W-125V-15A, DUPLEX, GROUND TYPE, HUBBEL CATALOG #5362
TOGGLE SWITCH, 1P-125V-15A, HUBBELL CATALOG #HBL 1201CN
TOGGLE SWITCH, 1P-120V-15A, "WP"
IONIZATION SMOKE DETECTOR W/ALARM HORN & AUXILIARY CONTACT, 120 VAC, GENTEX PART NO. 710DF
POLE
(N) POLE MOUNTED XFMER
(E) POLE MOUNTED XFMER
(N) PAD MOUNTED XFMER
(E) PAD MOUNTED XFMER

1. THE FACILITY IS AN UNOCCUPIED DIGITAL TELECOMMUNICATION FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY, UNLESS NOTED OTHERWISE. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTORS SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS AND DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE IMPLEMENTATION ENGINEER AND ENGINEER PRIOR TO PROCEEDING WITH THE WORK.
4. THE CONTRACTOR SHALL OBTAIN, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED OR IDENTIFIED BY THE CONTRACT DOCUMENTS.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY INDICATED OTHERWISE OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES AND APPLICABLE REGULATIONS.
7. THE GENERAL CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, USING THE BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE IMPLEMENTATION ENGINEER AND WITH THE LANDLORD'S AUTHORIZED REPRESENTATIVE.
8. SEAL PENETRATIONS THROUGH FIRE RATED AREAS WITH U.L. LISTED AND FIRE CODE APPROVED MATERIALS.
9. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2-A OR 2-A10BC WITHIN 75 FEET TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. REPRESENTATIONS OF TRUE NORTH, OTHER THAN THOSE FOUND ON THE PLOT OF SURVEY DRAWING (SHEET LS1 OR SHEET C-1), SHALL NOT BE USED TO IDENTIFY OR ESTABLISH THE BEARING OF TRUE NORTH AT THE SITE. THE CONTRACTOR SHALL RELY SOLELY ON THE PLOT OF SURVEY DRAWING AND ANY SURVEYOR'S MARKINGS AT THE SITE FOR THE ESTABLISHMENT OF TRUE NORTH, AND SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE TRUE NORTH ORIENTATION AS DEPICTED ON THE CIVIL SURVEY. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO NOTIFY THE ENGINEER.
12. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, VEGETATION, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF AT&T.
13. KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
14. PENETRATIONS OF ROOF MEMBRANES SHALL BE PATCHED/FLASHED AND MADE WATERTIGHT USING LIKE MATERIALS IN ACCORDANCE WITH NRCA ROOFING STANDARDS AND DETAILS. CONTRACTOR SHALL OBTAIN DETAILING CLARIFICATION FOR SITE-SPECIFIC CONDITIONS FROM ENGINEER, IF NECESSARY, BEFORE PROCEEDING.
15. BEFORE ORDERING AND/OR BEFORE FABRICATING/CONSTRUCTING/INSTALLING ANY ITEMS, VERIFY THE TYPES AND QUANTITIES.
16. CONTRACTOR SHALL PROVIDE SITE FOREMAN WITH A CELLULAR PHONE AND PAGER, AND KEEP SAME ON SITE WHENEVER PERSONNEL ARE ON SITE.
17. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE AND NOTIFY THE PROJECT MANAGER OF ANY DISCREPANCIES BEFORE STARTING ANY WORK.
18. CONTRACTOR TO PROVIDE COMPLETE SET OF AS BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
19. CONTRACTOR IS TO EXCAVATE 6" BELOW EXISTING GRADE AND SPRAY WITH WEED CONTROL. REPLACE WITH CLASS II AGGREGATE BASE AND CRUSHED WASHED ROCK, AS SPECIFIED ON SITE PLAN.
20. CONTRACTOR SHALL PROVIDE TOILET FACILITY DURING ALL PHASES OF CONSTRUCTION.
21. PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OR THE FABRICATION OF MATERIALS TO BE INSTALLED AT THE SITE, THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS INCLUDING AS-BUILT DIMENSIONS OF EXISTING STRUCTURES OR STRUCTURAL ELEMENTS HAVING A BEARING ON THE SCOPE OF THE WORK TO BE PERFORMED. IF ANY DISCREPANCY IS FOUND BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND THE DIMENSIONS OR CONDITIONS FOUND TO BE EXISTING IN THE FIELD, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND OBTAIN DESIGN RESOLUTION PRIOR TO PROCEEDING WITH THE PORTION(S) OF THE WORK AFFECTED. THE CONTRACTOR SHALL ASSUME SOLE LIABILITY FOR ANY FAILURE TO SO NOTIFY THE ENGINEER AND OBTAIN RESOLUTION BEFORE PROCEEDING.

ABBREVIATIONS 1

A	AMPERE	EMT	ELECTRICAL METALLIC TUBING	MTD	MOUNTED	T.O.F.	TOP OF FOUNDATION
A.B.	ANCHOR BOLT	E.N.	EDGE NAIL	MTG	MOUNTING	T.O.P.	TOP OF PLATE (PARAPET)
ABV.	ABOVE	ENCL	ENCLOSURE	MTL	METAL	T.O.S.	TOP OF STEEL
AC	ALTERNATE CURRENT/AIR CONDITIONER	ENG.	ENGINEER	MTS.	MANUAL TRANSFER SWITCH	T.O.W.	TOP OF WALL
ACCA	ANTENNA CABLE COVER ASSEMBLY	EQ.	EQUAL	N	NEUTRAL	TYP.	TYPICAL
ADD'L	ADDITIONAL	EXST (E)	EXISTING	(N)	NEW	U.G.	UNDER GROUND
A.F.F.	ABOVE FINISHED FLOOR	EXP	EXPANSION	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOC.	U.L.	UNDERWRITERS LABORATORY INC.
A.F.G.	ABOVE FINISHED GRADE	EXT	EXTERIOR	NO.(#)	NUMBER	UMTS	UNIVERSAL MOBIL TECH. SYS (3G MOBILE TECH.)
AIC	AMPERE INTERRUPTING CAPACITY	FAB.	FABRICATION(OR)	N.T.S.	NOT TO SCALE	U.N.O.	UNLESS NOTED OTHERWISE
ALUM.	ALUMINUM	FAC.	FACTOR	OBIF	OPTICAL BASEBAND INTERFACE	V	VOLT
ALT.	ALTERNATE	F/A	FIRE ALARM	OH	OVERHEAD	VAC	VOLT ALTERNATING CURRENT
ANT.	ANTENNA	F.F.	FINISH FLOOR	O.C.	ON CENTER	V.I.F.	VERIFY IN FIELD
APPROX.	APPROXIMATE(LY)	F.G.	FINISH GRADE	OPNG.	OPENING	W	WATT OR WIRE
ARCH.	ARCHITECT(URAL)	FIN.	FINISH(ED)	P	POLE	WD	WIDE(WIDTH)
AT.	AMPERE TRIP	FLR.	FLOOR	P/C	PRECAST CONCRETE	W/	WITH
AWG.	AMERICAN WIRE GAUGE	FLUOR	FLUORESCENT	PCS	PERSONAL COMMUNICATION SERVICES	W/O	WITHOUT
BATT.	BATTERY	FDN.	FOUNDATION	PH	PHASE	WD	WOOD
BD.	BOARD	F.O.C.	FACE OF CONCRETE	PLY.	PLYWOOD	W.P.	WEATHERPROOF
BLDG.	BUILDING	F.O.M.	FACE OF MASONRY	PNLBD	PANELBOARD	WT.	WEIGHT
BLK.	BLOCK	F.O.S.	FACE OF STUD	PPC	POWER PROTECTION CABINET	XFER	TRANSFER
BLKG.	BLOCKING	F.O.W.	FACE OF WALL	PRC	PRIMARY RADIO CABINET	XFMR	TRANSFORMER
BM.	BEAM	F.S.	FINISH SURFACE	PRI	PRIMARY	XLPE	CROSS-LINK POLYETHYLENE
B.N.	BOUNDARY NAILING	FT.(')	FOOT (FEET)	P.S.F.	POUNDS PER SQUARE FOOT	℄	CENTERLINE
BR.	BRANCH	FTG.	FOOTING	P.S.I.	POUNDS PER SQUARE INCH	℄	PLATE, PROPERTY LINE
BRKR.	BREAKER	FU	FUSE	P.T.	PRESSURE TREATED		
BTCW.	BARE TINNED COPPER WIRE	G	GROUND	PWR.	POWER (CABINET)		
BTS.	BASE TRANSMISSION SYSTEM	GR	GROWTH (CABINET)	QTY.	QUANTITY		
B.O.F.	BOTTOM OF FOOTING	GA.	GAUGE	RAD.(R)	RADIUS		
B/U	BACK-UP CABINET	GEN.	GENERATOR	RBS	RADIO BASE STATION (BASE STATION 3G NETWORKS)		
C	CONDUIT	GI.	GALVANIZE(D)		RECEPTACLE		
CAB.	CABINET	G.F.C.I.	GROUND FAULT CIRCUIT INTERRUPTER	RCPT.	REFERENCE		
CANT.	CANTILEVER(ED)	GLB. (GLU-LAM)	GLUE LAMINATED BEAM	REF.	REINFORCEMENT(ING)		
CB.	CIRCUIT BREAKER	GND	GROUND	REINF.	REQUIRED		
CDMA	CODE-DIVISION MULTIPLE ACCESS (2G & 3G)	GPS	GLOBAL POSITIONING SYSTEM	REQ'D.	RIGID GALVANIZED STEEL		
CDUK	CONSOLIDATION DISTRIBUTION UNIT KIT	GRND.	GROUND	RGS.	REMOTE RADIO UNIT		
C.I.P.	CAST IN PLACE	GSM	GLOBAL SYSTEM MOBILE (2G+ MOBILE TECH.)	RRU	(REMOTE TRANSCEIVER)		
CKT.	CIRCUIT	HDBC	HARD DRAWN COPPER WIRE		RECEIVER AIR INTERFACE TRAY		
CLG.	CEILING	HDR.	HEADER	RX-AIT	SAFETY		
CLR.	CLEAR	HGR.	HANGER	SAF.	SCHEDULE		
CMU.	CONCRETE MASONRY UNIT (JAMB BLOCKS)	HPS.	HIGH PRESSURE SODIUM	SCH.	SOFT DRAWN BARE COPPER		
COL.	COLUMN	HT.	HEIGHT	SDBC	SECONDARY		
CONC.	CONCRETE	ICGB	ISOLATED COPPER GROUND BUS	SEC	SHEET		
CONN.	CONNECTION(OR)	IN (")	INCH(ES)	SHT.	SIMILAR		
CONST.	CONSTRUCTION	INT.	INTERIOR	SIM.	SOLID NEUTRAL		
CONT.	CONTINUOUS	LB.(#)	POUND(S)	S.N.	SPECIFICATION(S)		
d	PENNY (NAILS)	L.B.	LAG BOLTS	SPEC.	SQUARE		
DBL.	DOUBLE	L.F.	LINEAR FEET (FOOT)	SQ.	STAINLESS STEEL		
DC	DIRECT CURRENT	LG.	LENGTH	S.S.	STANDARD		
DEM.	DEMAND	L.	LONG(ITUDINAL)	STD.	STEEL		
DEPT	DEPARTMENT	LPS	LOW PRESSURE SODIUM	STL.	STRUCTURAL		
D.F.	DOUGLAS FIR	LTE	LONG TERM EVOLUTION (4G MOBILE TECH.)	STRUC.	SURFACE		
DIA.	DIAMETER	MASON.	MASONRY	SURF.	SWITCH		
DIAG.	DIAGONAL	MAX.	MAXIMUM	SW.	TELEPHONE		
DIM.	DIMENSION	M.B.	MACHINE BOLT	TEL.	TEMPORARY		
DWG.	DRAWING(S)	MECH.	MECHANICAL	TEMP.	THICK(NESS)		
DWL.	DOWEL(S)	MFR.	MANUFACTURER	THK.	TOWER MOUNTED AMPLIFIER (DC SUPPLY VOLTAGE)		
EA.	EACH	MIN.	MINIMUM	TMA	TOE NAIL		
EGR.	EMERGENCY GENERATOR RECEPTACLE	MISC.	MISCELLANEOUS	T.N.	TOP OF ANTENNA		
EL.	ELEVATION	MLO	MAIN LUGS ONLY	T.O.A.	TOP OF CURB		
ELEC.	ELECTRICAL			T.O.C.			
ELEV.	ELEVATOR						

NOTES FOR EXISTING AT&T CELL SITES:

1. PRIOR TO THE SUBMISSION OF BIDS, THE BIDDING SUBCONTRACTOR SHALL VISIT THE CELL SITE TO FAMILIARIZE WITH THE EXISTING CONDITIONS AND TO CONFIRM THAT THE WORK CAN BE ACCOMPLISHED AS SHOWN ON THE CONSTRUCTION DRAWINGS. ANY DISCREPANCY FOUND SHALL BE BROUGHT TO THE ATTENTION OF CONTRACTOR.
2. SUBCONTRACTOR SHALL VERIFY ALL EXISTING DIMENSIONS AND CONDITIONS PRIOR TO COMMENCING ANY WORK. ALL DIMENSIONS OF EXISTING CONSTRUCTION SHOWN ON THE DRAWINGS MUST BE VERIFIED. SUBCONTRACTOR SHALL NOTIFY THE CONTRACTOR OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
3. THE EXISTING CELL SITE IS IN FULL COMMERCIAL OPERATION. ANY CONSTRUCTION WORK BY SUBCONTRACTOR SHALL NOT DISRUPT THE EXISTING NORMAL OPERATION. ANY WORK ON EXISTING EQUIPMENT MUST BE COORDINATED WITH CONTRACTOR. ALSO, WORK SHOULD BE SCHEDULED FOR AN APPROPRIATE MAINTENANCE WINDOW USUALLY IN LOW TRAFFIC PERIODS AFTER MIDNIGHT.
4. SINCE THE CELL SITE IS ACTIVE, ALL SAFETY PRECAUTIONS MUST BE TAKEN WHEN WORKING AROUND HIGH LEVELS OF ELECTROMAGNETIC RADIATION. EQUIPMENT SHOULD BE SHUTDOWN PRIOR TO PERFORMING ANY WORK THAT COULD EXPOSE THE WORKERS TO DANGER. PERSONAL RF EXPOSURE MONITORS ARE ADVISED TO BE WORN TO ALERT OF ANY DANGEROUS EXPOSURE LEVELS.
5. SUBCONTRACTOR SHALL DETERMINE ACTUAL ROUTING OF CONDUIT, POWER AND TI CABLES, GROUNDING CABLES AS SHOWN ON THE POWER, GROUNDING AND TELCO PLAN DRAWING. SUBCONTRACTOR SHALL UTILIZE EXISTING TRAYS AND/OR SHALL ADD NEW TRAYS AS NECESSARY. SUBCONTRACTOR SHALL CONFIRM THE ACTUAL ROUTING WITH THE CONTRACTOR.
6. SUBCONTRACTOR SHALL LEGALLY AND PROPERLY DISPOSE OF ALL SCRAP MATERIALS SUCH AS COAXIAL CABLES AND OTHER ITEMS REMOVED FROM THE EXISTING FACILITY. ANTENNAS REMOVED SHALL BE RETURNED TO THE OWNER'S DESIGNATED LOCATION.

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www.eukongroup.com

DRAWN BY: ER/CA/EC/AC
CHECKED BY: JJD/LM

REVISIONS:

REV	DATE	DESCRIPTION
2	09/11/18	SCE COMMENTS
1	06/18/18	SCE COMMENTS
0	02/08/18	100% CONSTRUCTION DRAWING
A	11/28/17	90% CONSTRUCTION DRAWING

LICENSER:
REGISTERED PROFESSIONAL ENGINEER CHRIS S. LEE 76549 CIVIL STATE OF CALIFORNIA

PROJECT INFORMATION:
LA8008
SCE CHINO
13835 EUCLID AVE.
ONTARIO, CA 91762

SHEET TITLE:
GENERAL NOTES, LEGEND AND ABBREVIATIONS

SHEET NUMBER:
T-2





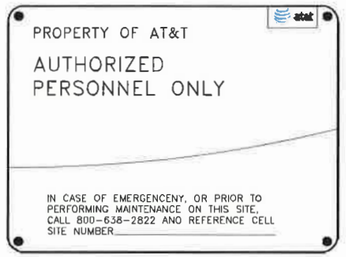
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ALERTING SIGN
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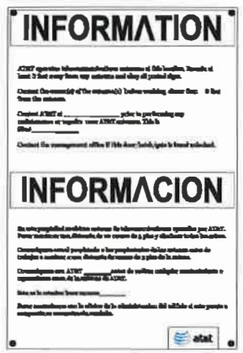
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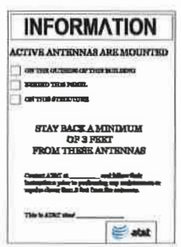
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INFO SIGN #3
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INFO SIGN #1
NO SCALE



INFO SIGN #2
NO SCALE



INFO SIGN #4
NO SCALE

GENERAL SIGNAGE GUIDELINES

Structure Type	INFO SIGN #1	INFO SIGN #2	INFO SIGN #3	INFO SIGN #4	INFO SIGN #5	Striping	NOTICE SIGN	CAUTION SIGN
Towers								
Monopole/Manopine/Monopalm	entrance gates, shelter doors OR on the outdoor cabinets	climbing side of the Tower	on backside of Antennas	on the side of Antennas	On the shelter door or on one outdoor equipment cabinet			At the height of the first climbing step, min. 9ft above ground
SCE Towers/Towers with high voltage	entrance gates, shelter doors OR on the outdoor cabinets				On the shelter door or on one outdoor equipment cabinet			
Light Poles/Flag Poles	entrance gates, shelter doors OR on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no	on backside of Antennas	on the side of Antennas	On the shelter door or on one outdoor equipment cabinet			
Utility Wood Poles (JPA)	entrance gates, shelter doors OR on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no	on backside of Antennas	on the side of Antennas	On the shelter door or on one outdoor equipment cabinet		If GP max value of MPE at antenna level is 0-99%: Notice sign; over 99%: Caution sign at no less that 3ft below antenna and 9ft above ground	
Microcells mounted on non-JPA poles	entrance gates, shelter doors OR on the outdoor cabinets	on the pole, no less than 3ft below the Antenna and no	on backside of Antennas	on the side of Antennas	On the shelter door or on one outdoor equipment cabinet		Notice or Caution sign at no less than 9ft above ground: only if the exposure exceeds 90% of the General Public Exposure at 6ft above ground or at	
Roof Tops								
At all access points to the roof	X							
On Antennas	X		X	X				
Concealed Antennas	X	X						
antennas mounted facing outside the building	X	X						
antennas on support structure	X	X						
Roofview Graph:								
Radiation area is within 3ft from antenna	X	adjacent to each antenna					either Notice or Caution sign (based on Roofview results) at antennas/barrier	
Radiation area is beyond 3ft from antenna	X	adjacent to each antenna				diagonal, yellow striping as to Roofview graph		
Church Steeples	Access to steeple	adjacent to antennas if antennas are concealed	On backside of Antennas	On the side of Antennas	On the shelter door or on one outdoor equipment cabinet			Caution sign at the antennas
Water Stations	Access to ladder	adjacent to antennas if antennas are concealed	On backside of Antennas	On the side of Antennas	On the shelter door or on one outdoor equipment cabinet			Caution sign beside info sign #1, min. 9ft above ground

Notes for Rooftop sites:

1. Either NOTICE or CAUTION signs need to be posted at each sector as close as possible to: the outer edge of the striped off area of the outer antennas of the sector.
2. If Roofview shows: only blue = Notice Sign, blue and yellow = Caution Sign, only yellow = Caution sign to be installed.
3. Should the Required striping area interfere with any structures or equipment (A/C, vents, roof hatch, doors, other antennas, dishes, etc.) please notify AT&T to modify the striping area, prior to starting the work.

SIGNAGE GUIDELINES CHART
NO SCALE

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CHECKED BY:	JJD/LM

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LICENSER:

REGISTERED PROFESSIONAL ENGINEER
CHRIS S. LEE
76549
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PROJECT INFORMATION:

LA8008
SCE CHINO
13835 EUCLID AVE.
ONTARIO, CA 91762

SHEET TITLE:

GENERAL SIGNAGE

SHEET NUMBER:

T-3

MANAGEMENT DEPARTMENT – ADMINISTRATIVE SERVICES.

12. CONTRACTOR IS RESPONSIBLE FOR REPAIR OF ALL DAMAGED OFFSITE IMPROVEMENTS CAUSED BY CONSTRUCTION. CALL PUBLIC WORKS INSPECTOR FOR INSPECTION OF OFFSITE IMPROVEMENTS AT SUBSTANTIAL COMPLETION OF ONSITE WORK.
13. NO CONSTRUCTION DEBRIS SHALL BE SPILLED OR STORED ONTO PUBLIC RIGHT-OF-WAY.
14. NO RUNOFF SEDIMENT OR WASTES IS ALLOWED IN WATER LEAVING THE SITE.
15. ALL SITE UTILITIES SHALL BE CONSTRUCTED UNDERGROUND TO THE NEAREST POLE.
16. ALL LABOR, EQUIPMENT AND MATERIAL REQUIRED FOR OFF-SITE IMPROVEMENTS ARE THE RESPONSIBILITY OF THE CONTRACTOR.

DISCLAIMER NOTE:

EUKONGROUP HAS GENERATED A SITE PLAN WITHOUT USING A TOPOGRAPHIC SURVEY. PROPERTY LINES, POWER/TELCO UTILITY POINT OF CONNECTIONS/ROUTES AND EASEMENT SHOWN ON THIS PLANS ARE ESTIMATED. EUKONGROUP HIGHLY RECOMMENDS GETTING A TOPOGRAPHIC SURVEY FOR THE PROPERTY TO VERIFY THE MEASUREMENTS AND ACCURACY.

EUCLID AVE

EXISTING CHAINLINK GATE

(E) DIRT ROAD

EXISTING SITE ACCESS

EXISTING SCE TOWER (BY OTHER)

0° 45° 90° 135° 180° 225° 270° 315°

SITE PLAN

SCALE 1"=20'-0"

20' 0 10' 20' 40' 80'

1

PROJECT INFORMATION:

LA8008
SCE CHINO
13835 EUCLID AVE.
ONTARIO, CA 91762

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

A-1

PLEASE INSERT AND CENTER A FULL PAGE

SCALE NOTE:

IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.

GENERAL NOTES:

1. THE EXISTING FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE.
2. THE EXISTING FACILITY IS UNMANNED AND IS NOT FOR HUMAN HABITAT. (NO HANDICAP ACCESS IS REQUIRED).
3. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY **AT&T** TECHNICIANS.
4. NO NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS PROPOSAL.
5. OUTDOOR STORAGE AND SOLID WASTE CONTAINERS ARE NOT NEW.
6. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
7. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATION.
8. SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTION REQUIRED FOR CONSTRUCTION.
9. SUBCONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.

EUCLID AVE

SECTOR "C" AZIMUTH: 340°

EXISTING TRANSFORMER/TELCO

EXISTING OVERHEAD POWER

EXISTING TRANSFORMER

EXISTING UTILITY POLE. POWER AND TELCO P.O.C.

EXISTING TREE

EXISTING BUILDING

PROPERTY LINE

EXISTING BUILDING

EXISTING UNDERGROUND POWER AND TELCO RUNS TO EXISTING UTILITY POLE

APPLICANT:

The new at&t

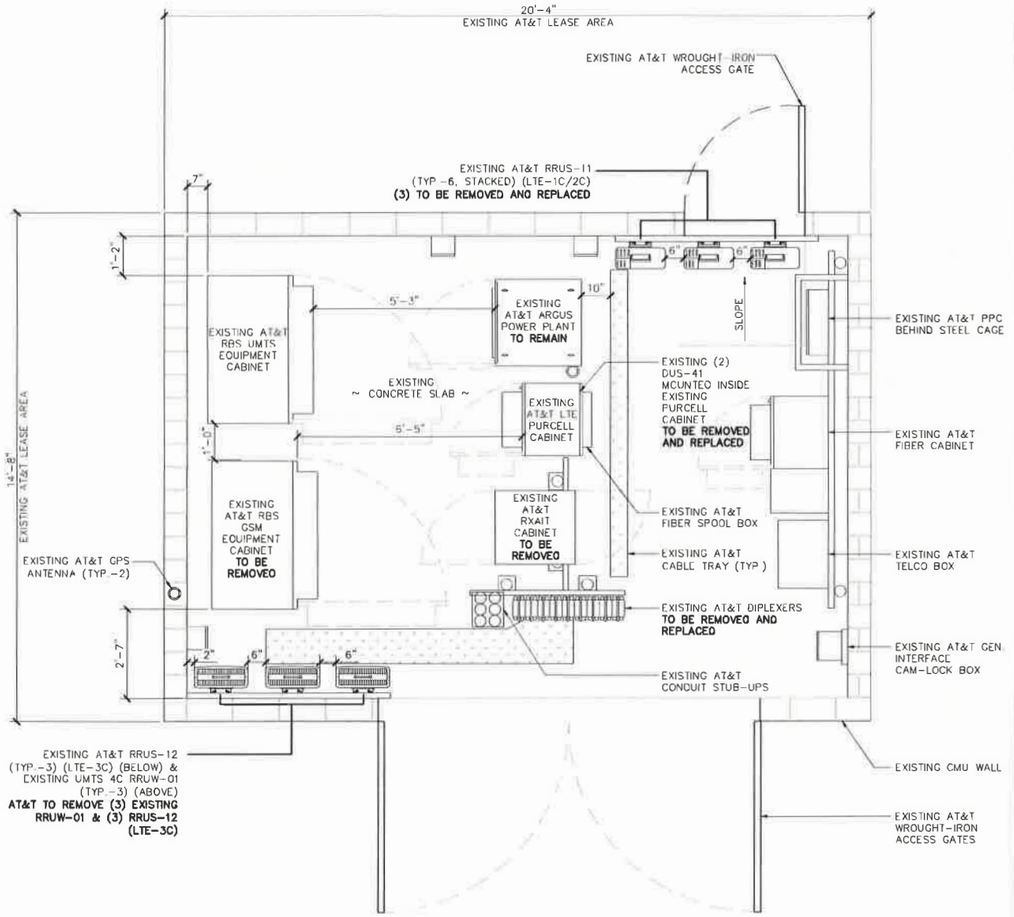
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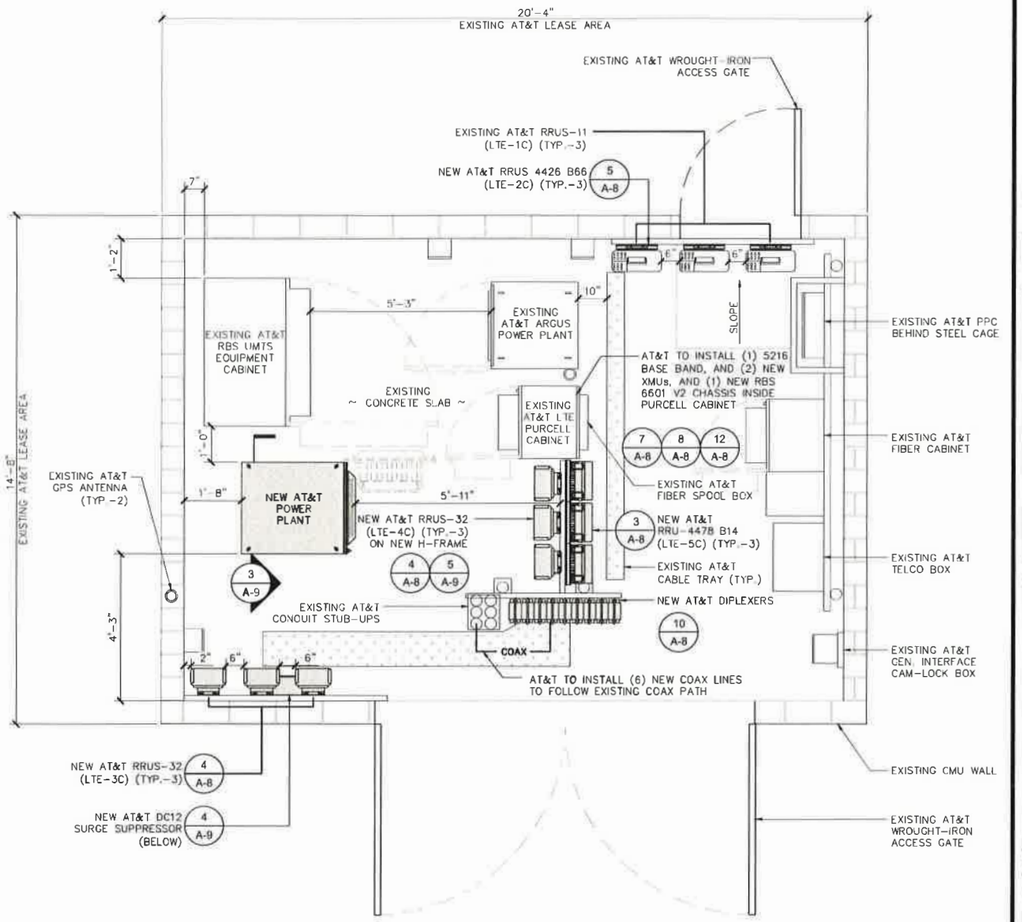
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EXISTING EQUIPMENT LAYOUT | SCALE 1/2"=1'-0" | 1



NEW EQUIPMENT LAYOUT | SCALE 1/2"=1'-0" | 2

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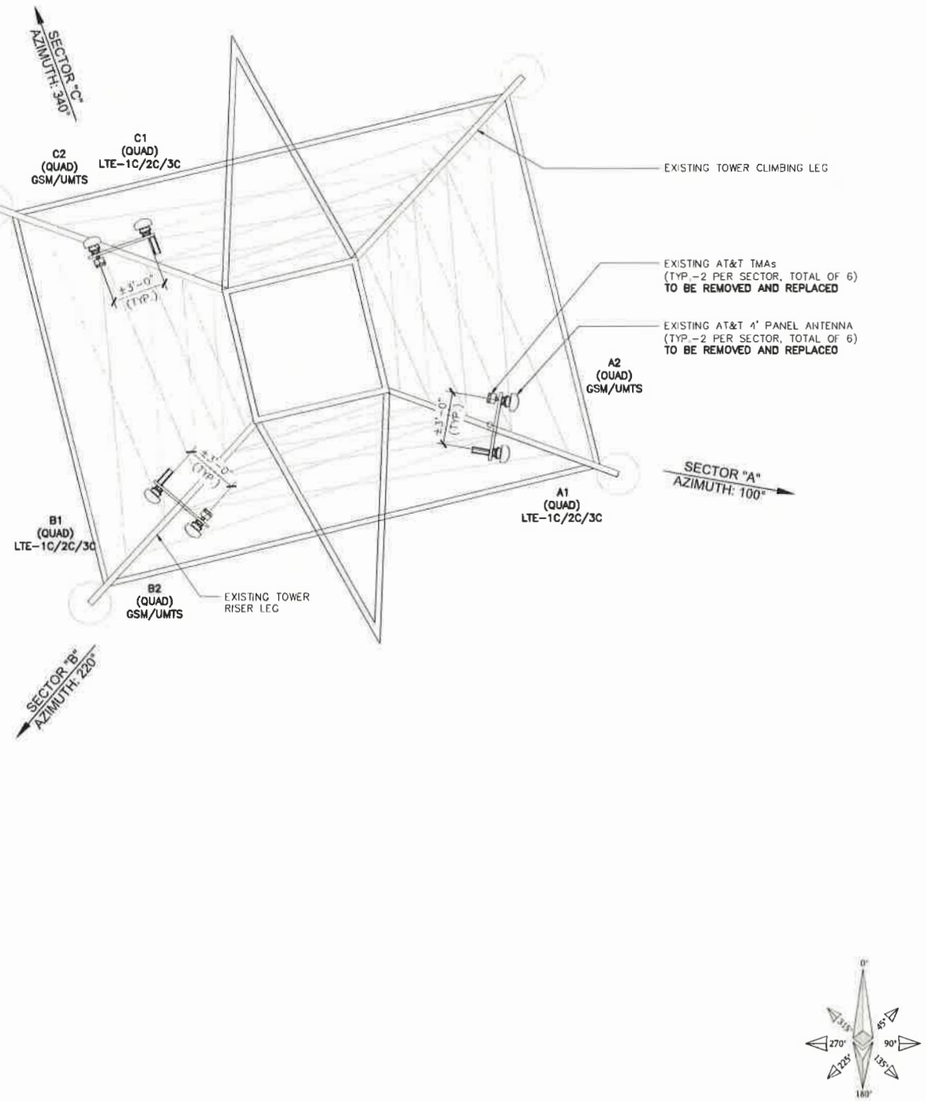
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EXISTING AND NEW EQUIPMENT LAYOUT

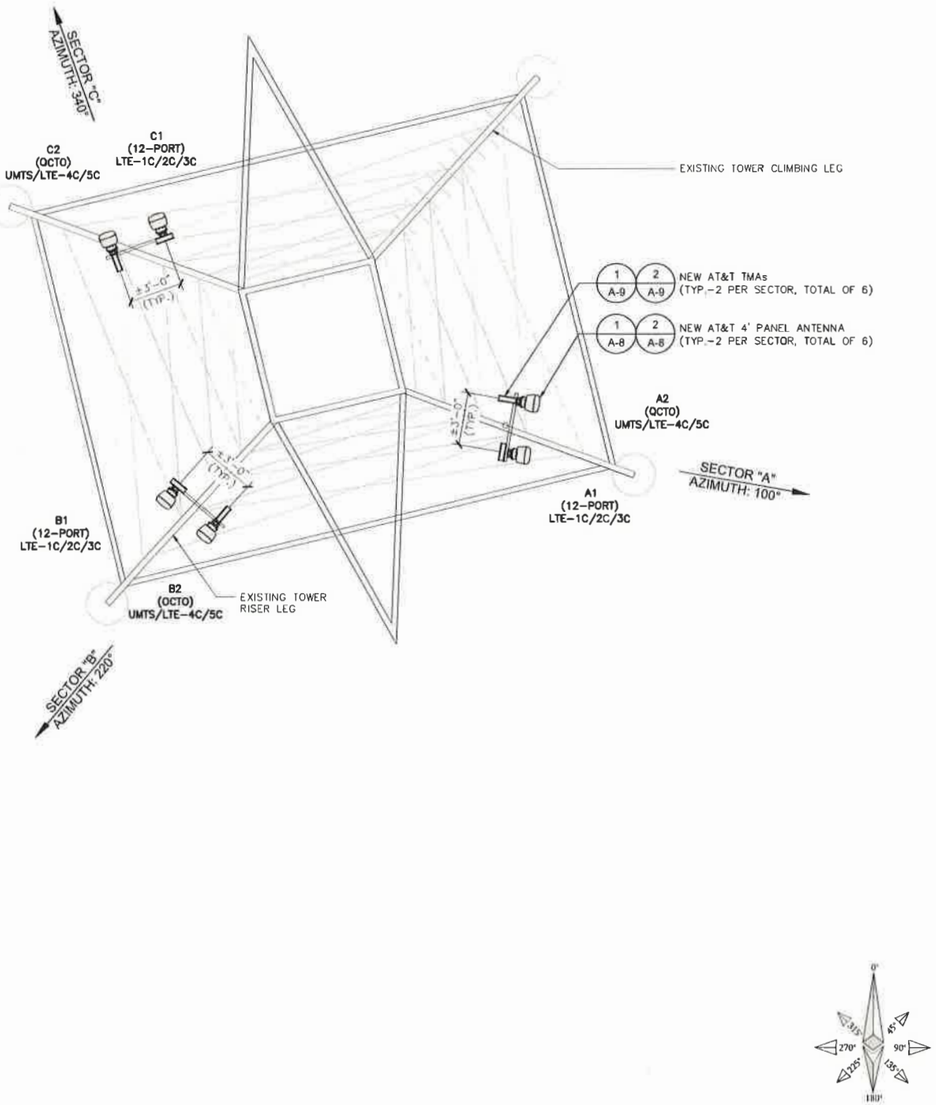
SHEET NUMBER:

A-2

SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS



EXISTING ANTENNA PLANS | SCALE 3/8"=1'-0" | 1



NEW ANTENNA PLANS | SCALE 3/8"=1'-0" | 2

APPLICANT:

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CHECKED BY:	JJD/LM

REVISIONS:

REV	DATE	DESCRIPTION
2	09/11/18	SCE COMMENTS
1	06/18/18	SCE COMMENTS
0	02/08/18	100% CONSTRUCTION DRAWING
A	11/28/17	90% CONSTRUCTION DRAWING

LICENSER:

REGISTERED PROFESSIONAL ENGINEER
CHRIS S. LEE
76549
CIVIL
STATE OF CALIFORNIA

PROJECT INFORMATION:

LA8008
SCE CHINO
13835 EUCLID AVE.
ONTARIO, CA 91762

SHEET TITLE:

EXISTING AND NEW ANTENNA PLANS

SHEET NUMBER:

A-3

RF DATA SCHEDULE @ TOWER

	SECTOR	REMOTE RADIO UNIT (RRUS) QTY.	(E) MODEL	QTY.	FINAL MODEL	MICROWAVE DISH QTY.	(E) MODEL	SIZE	ANTENNA QTY.	(E) MODEL	SIZE	QTY.	FINAL MODEL	SIZE	(E) TECHNOLOGY	FINAL TECHNOLOGY	(E) AZIMUTH	FINAL AZIMUTH	(E) RAD CENTER	FINAL RAD CENTER	TMA (E) QTY.	(E) MODEL	FINAL QTY.	FINAL MODEL	CBC COMBINERS (E) QTY.	FINAL QTY.	FINAL MODEL	RAYCAP (SURGE) (E) QTY.	(E) MODEL	FINAL QTY.	FINAL MODEL
ALPHA SECTOR	A1	–	–	–	–	N/A	N/A	N/A	1	ANDREW SBNH-1D6565A	4'	1	**QUINTEL QS46512-2**	4'	LTE 1C/2C/3C	LTE **1C/2C/3C**	100°	100°	50'-0"	50'-0"	1	KAELUS TMA2093F00V1-1	1	**KAELUS TMA2116F00V1-1**	–	–	–	–	–	–	–
	A2	–	–	–	–				1	ANDREW SBNH-1D6565A	4'	1	**QUINTEL QS46SB-7**	4'	GSM/UMTS	UMTS **/LTE-4C/5C**	100°	100°	50'-0"	50'-0"	1	CCI DTMABP0721VG12A	1	**KAELUS TMA2104F00V1-1**	–	–	–	–	–	–	–
	A3	–	–	–	–				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	A4	–	–	–	–				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
BETA SECTOR	B1	–	–	–	–	N/A	N/A	N/A	1	ANDREW SBNH-1D6565A	4'	1	**QUINTEL QS46512-2**	4'	LTE 1C/2C/3C	LTE **1C/2C/3C**	220°	220°	50'-0"	50'-0"	1	KAELUS TMA2093F00V1-1	1	**KAELUS TMA2116F00V1-1**	–	–	–	–	–	–	–
	B2	–	–	–	–				1	ANDREW SBNH-1D6565A	4'	1	**QUINTEL QS46SB-7**	4'	GSM/UMTS	UMTS **/LTE-4C/5C**	220°	220°	50'-0"	50'-0"	1	CCI DTMABP0721VG12A	1	**KAELUS TMA2104F00V1-1**	–	–	–	–	–	–	–
	B3	–	–	–	–				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	B4	–	–	–	–				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
GAMMA SECTOR	C1	–	–	–	–	N/A	N/A	N/A	1	ANDREW SBNH-1D6565A	4'	1	**QUINTEL QS46512-2**	4'	LTE 1C/2C/3C	LTE **1C/2C/3C**	340°	340°	50'-0"	50'-0"	1	KAELUS TMA2093F00V1-1	1	**KAELUS TMA2116F00V1-1**	–	–	–	–	–	–	–
	C2	–	–	–	–				1	ANDREW SBNH-1D6565A	4'	1	**QUINTEL QS46SB-7**	4'	GSM/UMTS	UMTS **/LTE-4C/5C**	340°	340°	50'-0"	50'-0"	1	CCI DTMABP0721VG12A	1	**KAELUS TMA2104F00V1-1**	–	–	–	–	–	–	–
	C3	–	–	–	–				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–
	C4	–	–	–	–				–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

TOTAL:	(E) RRUS	FINAL RRUS	MICROWAVE(s)	(E) ANTENNA(s)	FINAL ANTENNAS	(E) TMA(s)	FINAL TMA(s)	(E) COMBINERS	FINAL COMBINERS	(E) RAYCAPS	FINAL RAYCAPS
	0	**0**	0	6	**6**	6	**6**	0	**0**	0	**0**

REMOTE RADIO UNITS (RRUS'S) AT GRADE

	SECTOR	RRUS TYPE	(E)	(N)	RRUS LOCATION (DISTANCE FROM ANTENNA)	MINIMUM CLEARANCES ABOVE	BELOW	SIDES
ALPHA SECTOR	A1	ERICSSON RRUS-11 (700), **ERICSSON RRUS-4426 B66 (AWS-4T4R), ERICSSON RRUS-32 (PCS)**	1	**2**	<160'-0"	16"	8"	0"
	A2	**ERICSSON RRUS-32 (WCS) ERICSSON RRUS B14-4478 (FIRSTNET)**	–	**2**	<160'-0"	16"	8"	0"
	A3	–	–	–	–	–	–	–
	A4	–	–	–	–	–	–	–
BETA SECTOR	B1	ERICSSON RRUS-11 (700), **ERICSSON RRUS-4426 B66 (AWS-4T4R), ERICSSON RRUS-32 (PCS)**	1	**2**	<160'-0"	16"	8"	0"
	B2	**ERICSSON RRUS-32 (WCS) ERICSSON RRUS B14-4478 (FIRSTNET)**	–	**2**	<160'-0"	16"	8"	0"
	B3	–	–	–	–	–	–	–
	B4	–	–	–	–	–	–	–
GAMMA SECTOR	C1	ERICSSON RRUS-11 (700), **ERICSSON RRUS-4426 B66 (AWS-4T4R), ERICSSON RRUS-32 (PCS)**	1	**2**	<160'-0"	16"	8"	0"
	C2	**ERICSSON RRUS-32 (WCS) ERICSSON RRUS B14-4478 (FIRSTNET)**	–	**2**	<160'-0"	16"	8"	0"
	C3	–	–	–	–	–	–	–
	C4	–	–	–	–	–	–	–

EXISTING CABLE COUNT

	SECTOR	COAX SIZE	COAX COUNT	FIBER SIZE	FIBER COUNT	POWER SIZE	POWER COUNT	RET SIZE	RET COUNT	MICROWAVE SIZE	MICROWAVE COUNT	LENGTH
ALPHA SECTOR	A1	7/8"ø	2	–	–	–	–	–	–	–	–	±160'
	A2	7/8"ø	2	–	–	–	–	–	–	–	–	±160'
	A3	–	–	–	–	–	–	–	–	–	–	–
	A4	–	–	–	–	–	–	–	–	–	–	–
BETA SECTOR	B1	7/8"ø	2	–	–	–	–	–	–	–	–	±160'
	B2	7/8"ø	2	–	–	–	–	–	–	–	–	±160'
	B3	–	–	–	–	–	–	–	–	–	–	–
	B4	–	–	–	–	–	–	–	–	–	–	–
GAMMA SECTOR	C1	7/8"ø	2	–	–	–	–	–	–	–	–	±160'
	C2	7/8"ø	2	–	–	–	–	–	–	–	–	±160'
	C3	–	–	–	–	–	–	–	–	–	–	–
	C4	–	–	–	–	–	–	–	–	–	–	–
		12		0		0		0		0		12 TOTAL CABLE COUNT

FINAL CABLE COUNT

	SECTOR	COAX SIZE	COAX COUNT	FIBER SIZE	FIBER COUNT	POWER SIZE	POWER COUNT	RET SIZE	RET COUNT	MICROWAVE SIZE	MICROWAVE COUNT	LENGTH
ALPHA SECTOR	A1	7/8"ø	4	–	–	–	–	–	–	–	–	±160'
	A2	7/6"ø	2	–	–	–	–	–	–	–	–	±160'
	A3	–	–	–	–	–	–	–	–	–	–	–
	A4	–	–	–	–	–	–	–	–	–	–	–
BETA SECTOR	B1	7/6"ø	4	–	–	–	–	–	–	–	–	±160'
	B2	7/6"ø	2	–	–	–	–	–	–	–	–	±160'
	B3	–	–	–	–	–	–	–	–	–	–	–
	B4	–	–	–	–	–	–	–	–	–	–	–
GAMMA SECTOR	C1	7/6"ø	4	–	–	–	–	–	–	–	–	±160'
	C2	7/6"ø	2	–	–	–	–	–	–	–	–	±160'
	C3	–	–	–	–	–	–	–	–	–	–	–
	C4	–	–	–	–	–	–	–	–	–	–	–
		18		0		0		0		0		18 TOTAL CABLE COUNT

ANTENNA AND RRU SCHEDULE

SCALE NONE

1

APPLICANT:

The new at&t

1452 EDINGER AVE.
TUSTIN, CA 92780

ENGINEER:

Eukon
on SFC Communications, Inc. Company
65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

DRAWN BY: ER/CA/EC/AC
CHECKED BY: JJD/LM

REVISIONS:

REV	DATE	DESCRIPTION
2	09/11/1[illegible]	[illegible] COMMENTS
1	06/18/18	SCE COMMENTS
0	02/08/18	100% CONSTRUCTION DRAWING
A	11/28/17	90% CONSTRUCTION DRAWING

LICENSER:

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STATE OF CALIFORNIA

PROJECT INFORMATION:

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ONTARIO, CA 91762

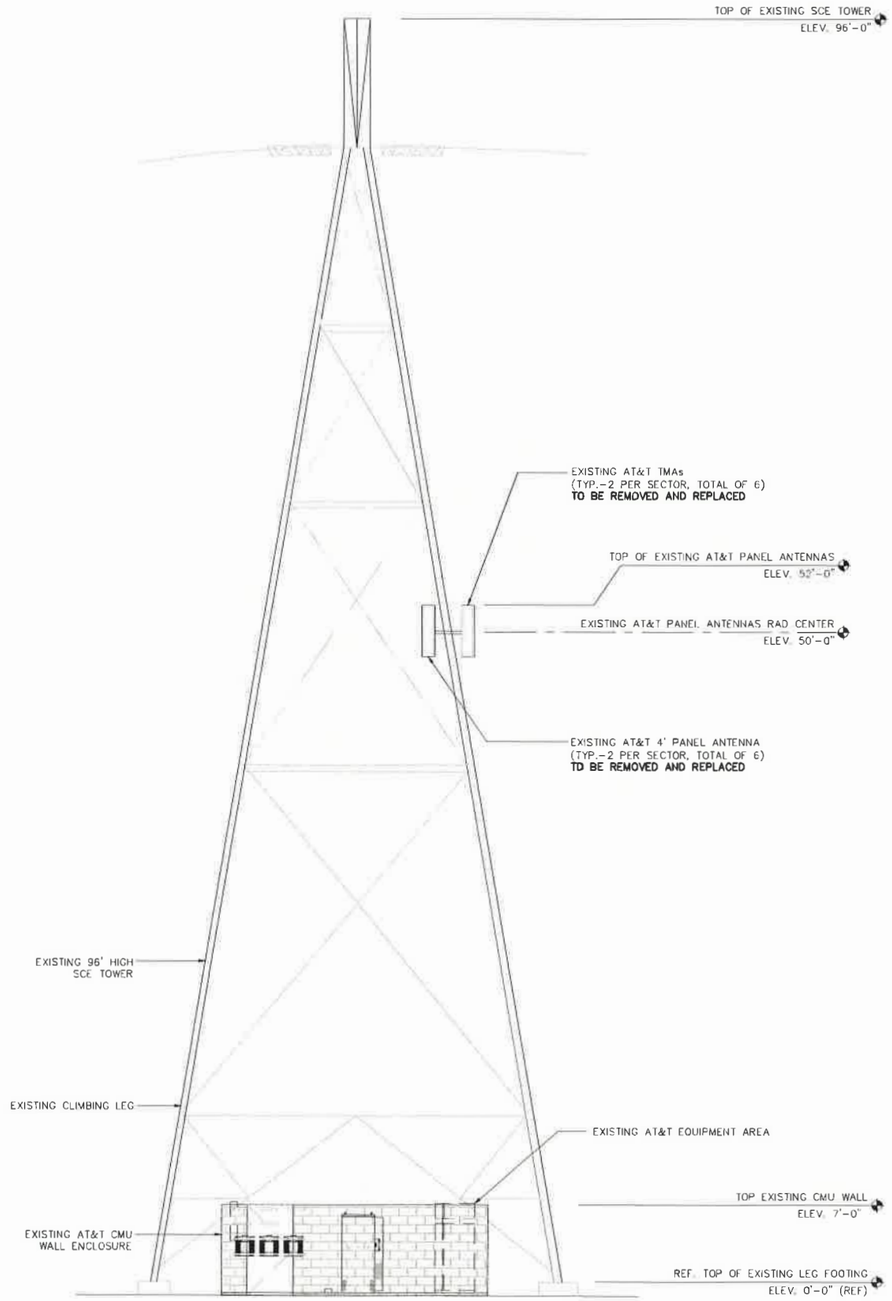
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ANTENNA AND RRU SCHEDULES

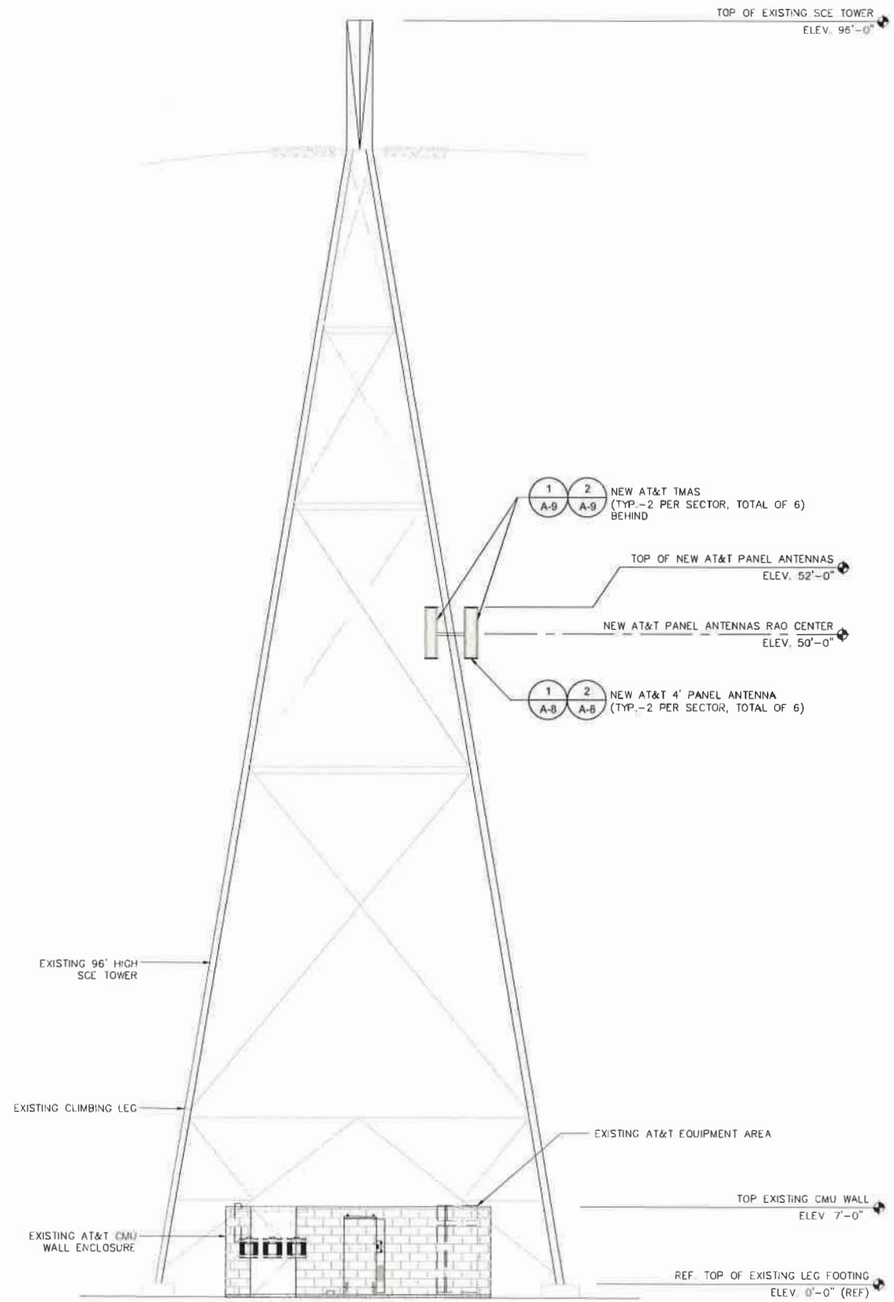
SHEET NUMBER:

A-3.1

SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS.



EXISTING NORTH ELEVATION — SCALE 3/16"=1'-0" — 1



NEW NORTH ELEVATION — SCALE 3/16"=1'-0" — 2

APPLICANT:

The new at&t

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DRAWN BY:	ER/CA/EC/AC
CHECKED BY:	JJD/LM

REVISIONS:

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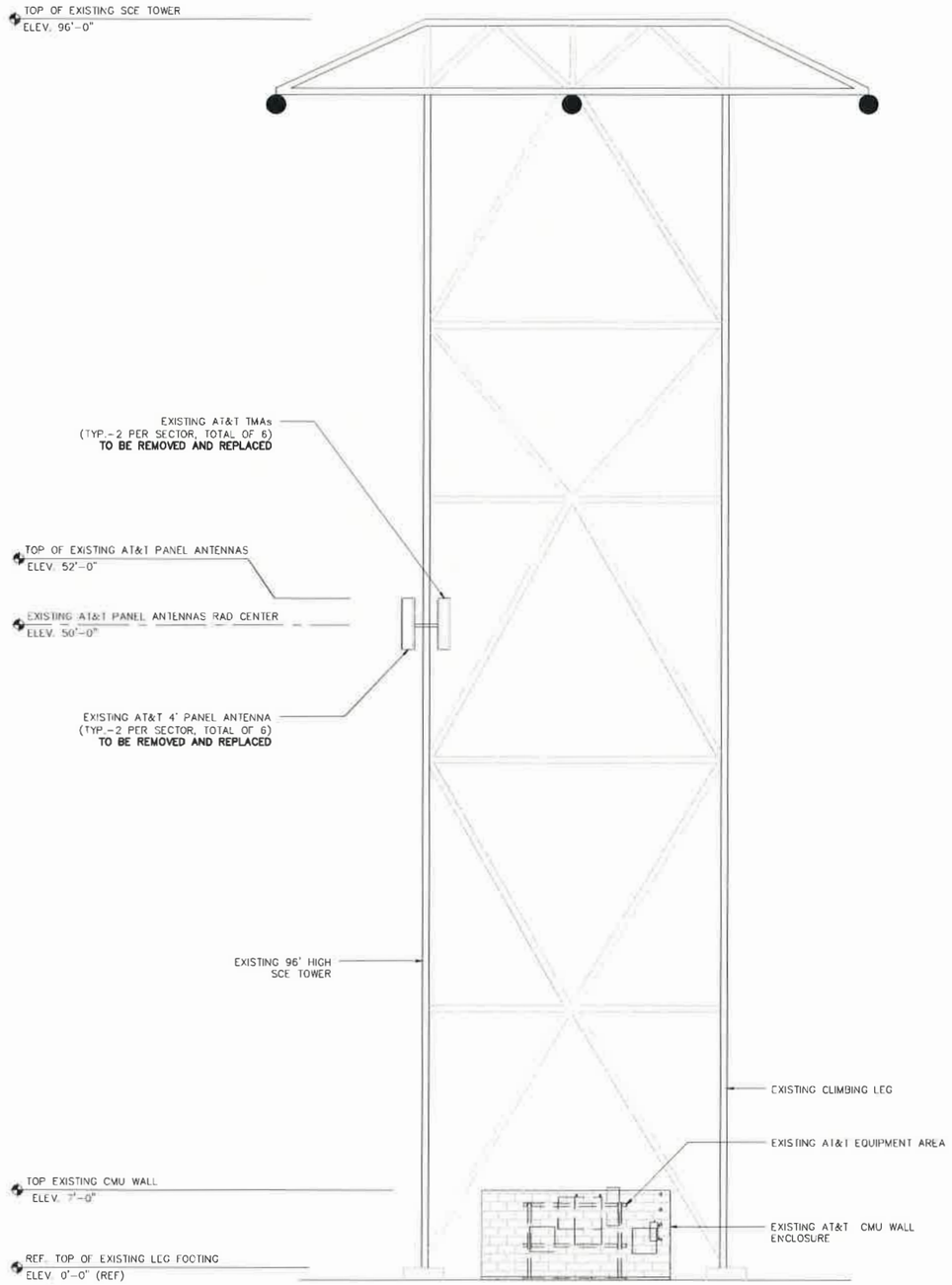
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EXISTING AND NEW NORTH ELEVATION

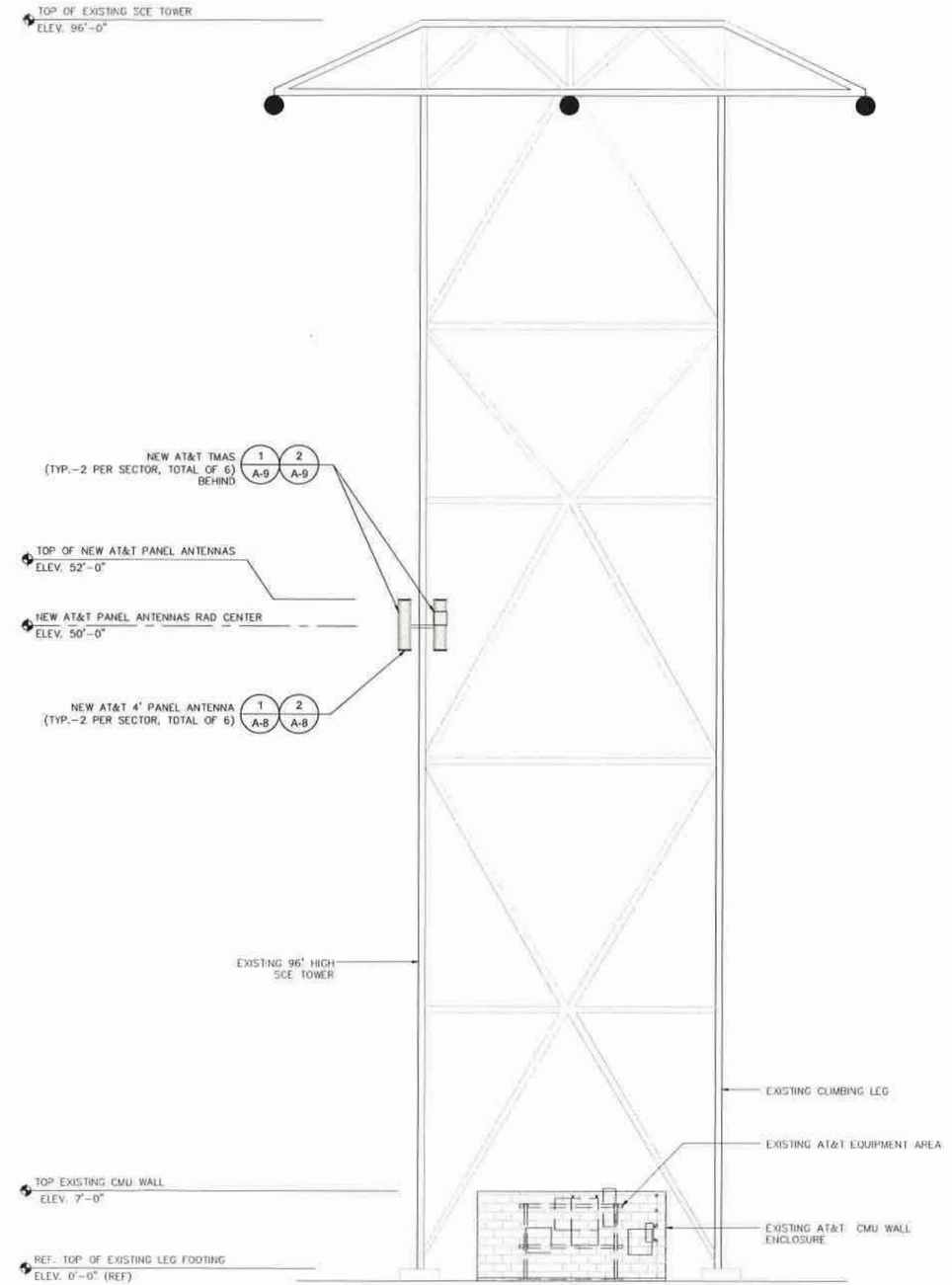
SHEET NUMBER:

A-4

SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS



EXISTING EAST ELEVATION | SCALE 3/16"=1'-0" | 1



NEW EAST ELEVATION | SCALE 3/16"=1'-0" | 2

APPLICANT:

The new at&t

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REV	DATE	DESCRIPTION
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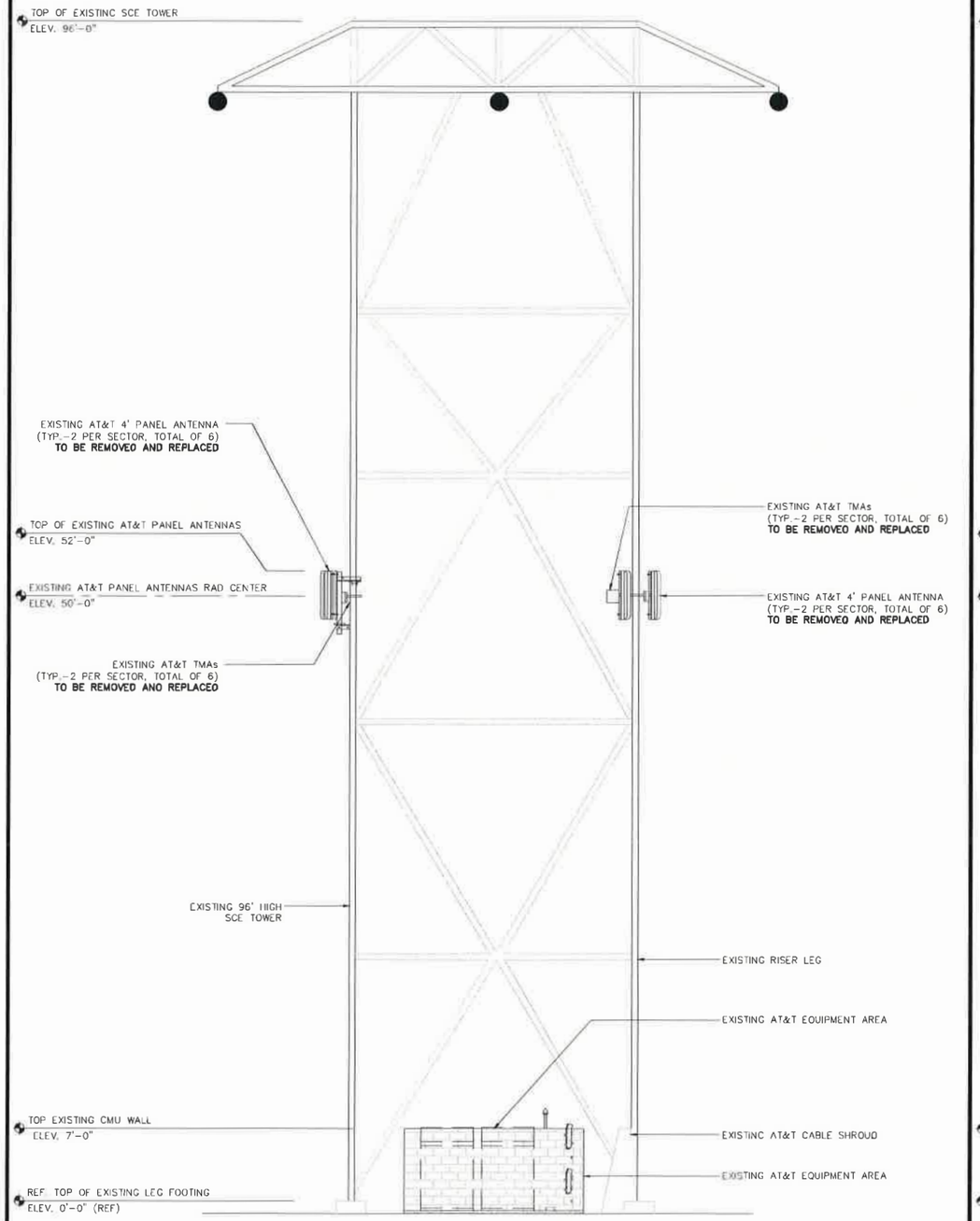
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EXISTING AND NEW EAST ELEVATION

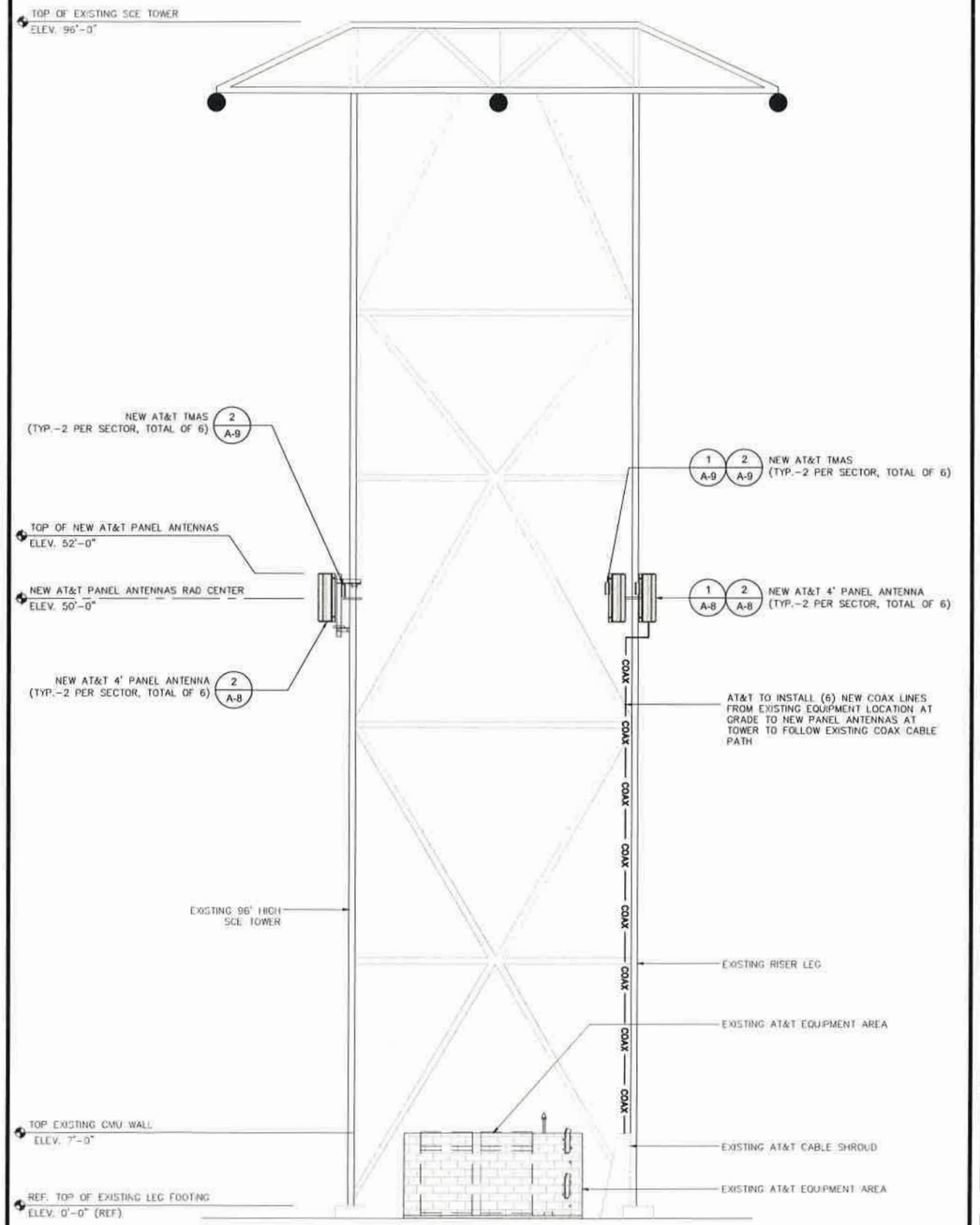
SHEET NUMBER:

A-5

SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS



EXISTING WEST ELEVATION | SCALE 3/16"=1'-0" | 1



NEW WEST ELEVATION | SCALE 3/16"=1'-0" | 2

APPLICANT:

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DRAWN BY:	ER/CA/EC/AC
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REV	DATE	DESCRIPTION
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A	11/28/17	90% CONSTRUCTION DRAWING

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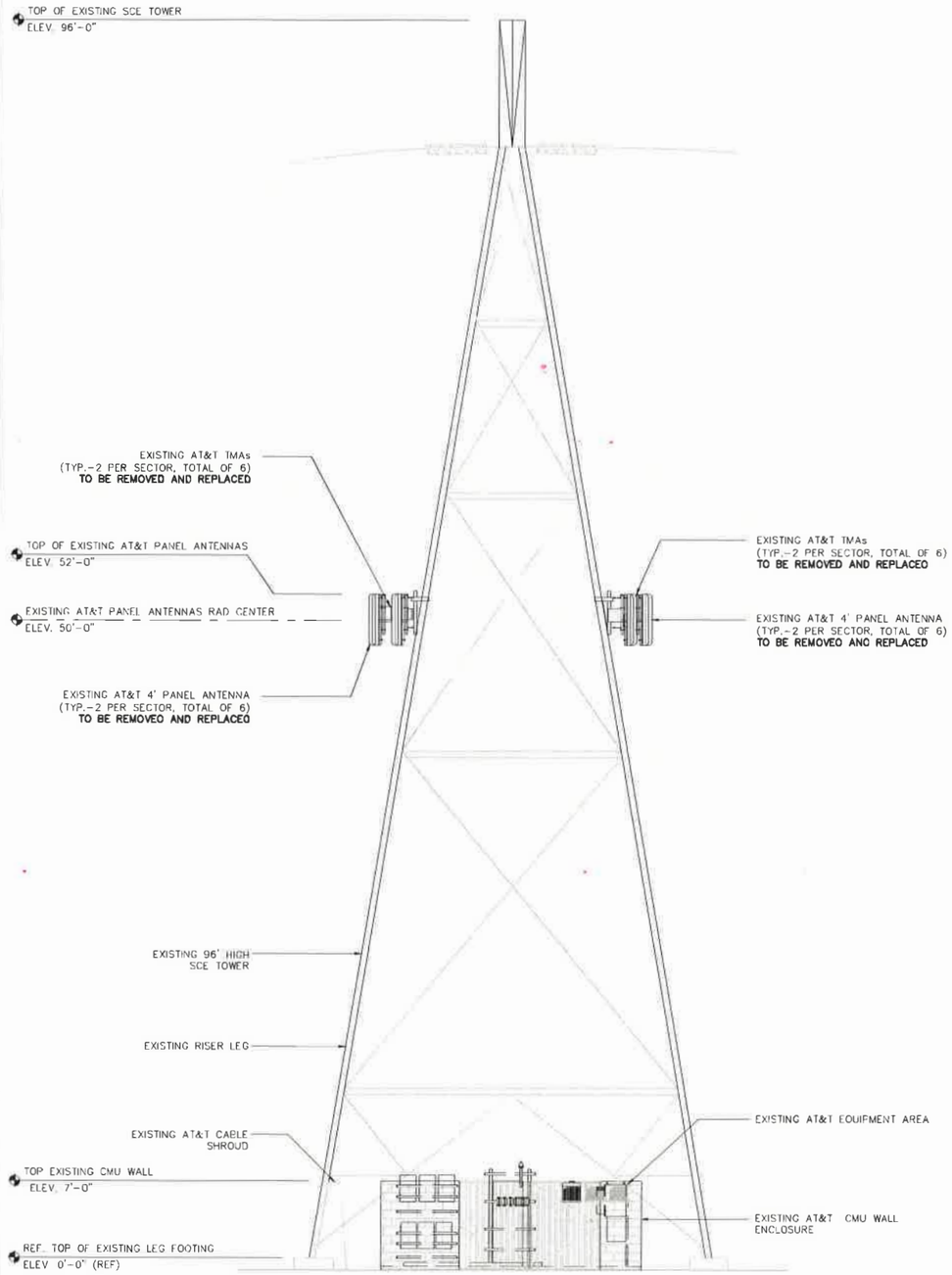
SHEET TITLE:

EXISTING AND NEW
WEST ELEVATION

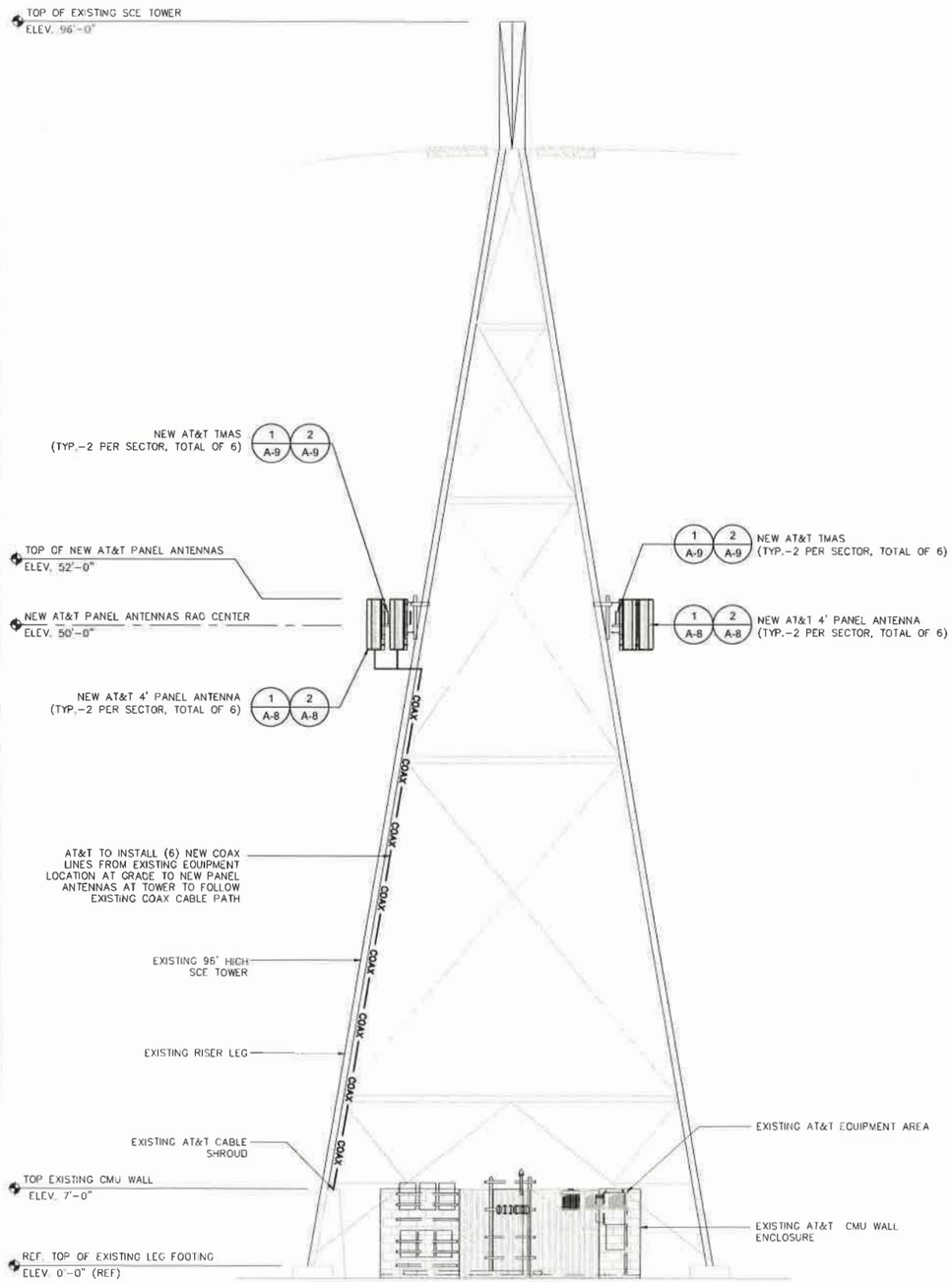
SHEET NUMBER:

A-6

SCALE NOTE:
IF DIMENSIONS SHOWN ON PLAN DO NOT SCALE CORRECTLY, CHECK FOR REDUCTION OR ENLARGEMENT FROM ORIGINAL PLANS



EXISTING SOUTH ELEVATION — SCALE 3/16"=1'-0" — 1



NEW SOUTH ELEVATION — SCALE 3/16"=1'-0" — 2

APPLICANT:

The new at&t

1452 EDINGER AVE.
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ENGINEER:

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DRAWN BY:	ER/CA/EC/AC
CHECKED BY:	JJD/LM

REVISIONS:

REV	DATE	DESCRIPTION
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1	06/18/18	SCE COMMENTS
0	02/08/18	100% CONSTRUCTION DRAWING
A	11/28/17	90% CONSTRUCTION DRAWING

LICENSER:

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SHEET TITLE:

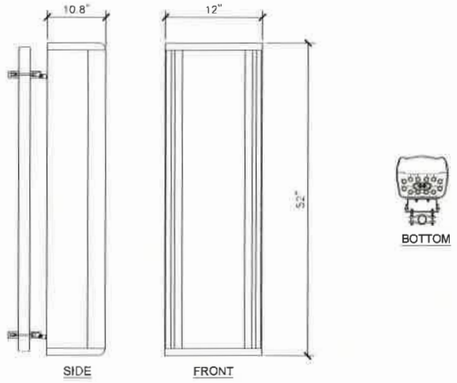
EXISTING AND NEW SOUTH ELEVATION

SHEET NUMBER:

A-7

QUINTEL - QS46512-2

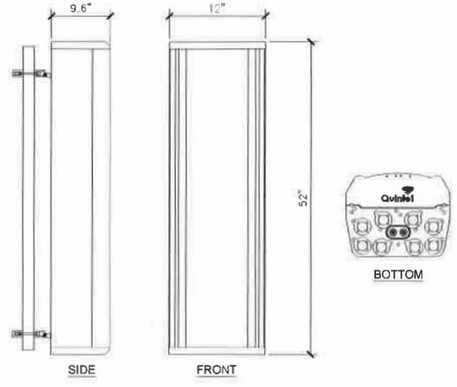
DIMENSIONS (LxWxD):	52.0 x 12 x 10.8 INCHES (1320 x 304 x 275 mm)
WEIGHT EXCL MOUNTING BRACKETS	75.0lbs (34.0 kg)
NO. OF CONNECTORS	12 x 4.3-10.0 DIN FEMALE LONG NECK
OPERATING TEMPERATURE:	-40°C TO +65°C
MAX WIND SPEED:	150 mph (67m/s)
EFECTIVE PROJECTED AREA:	FRONT: 2.02ft (0.19m)
WIND LOAD AT 160mph:	
FRONTAL:	445N (100lbs)
SIDE:	267N (60 lbs)



ANTENNA SPECIFICATIONS | 1

QUINTEL - QS4658-7

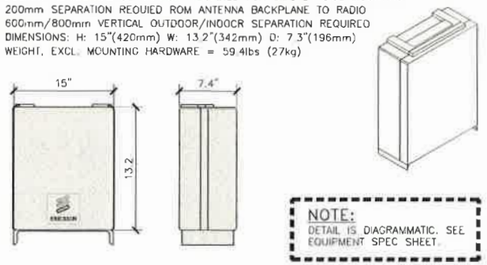
DIMENSIONS (LxWxD):	52.0 x 12 x 9.6 INCHES (1320 x 304 x 245 mm)
WEIGHT EXCL MOUNTING BRACKETS:	66.0lbs (30.8 kg)
NO OF CONNECTORS	7/16 DIN FEMALE LONG NECK
OPERATING TEMPERATURE:	-40°C TO +65°C
MAX WIND SPEED:	150 mph (67m/s)
EFECTIVE PROJECTED AREA:	FRONT 1.9ft² (0.18m²)
WIND LOAD AT 160mph:	
FRONTAL:	222N (50lbs)
SIDE:	423N (95.1lbs)



ANTENNA SPECIFICATIONS | 2

ERICSSON-4478 B14 RRH

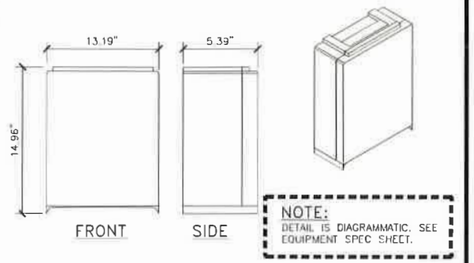
CPRI 2 PORTS x 2.5/4.9/9.8/10.1 Gbps
MAX WIND LOAD @ 50m/sec = 260N
BREAKER SIZE = 25A, DC POWER CONSUMPTION = 880W
200mm HORIZONTAL SEPARATION REQUIRED FOR SIDE BY SIDE MOUNTING
200mm SEPARATION REQUIED ROM ANTENNA BACKPLANE TO RADIO
600mm/800mm VERTICAL OUTDOOR/INDOOR SEPARATION REQUIRED
DIMENSIONS: H: 15"(420mm) W: 13.2"(342mm) D: 7.3"(196mm)
WEIGHT, EXCL. MOUNTING HARDWARE = 59.4lbs (27kg)



RRUS-4478 B14 SPECIFICATIONS | 3

ERICSSON RRUS-4426 B66

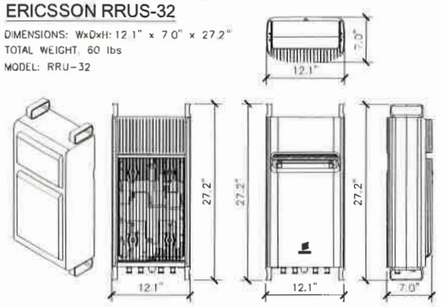
DIMENSIONS, WxDxH: 13.19" x 5.39" x 14.96"
POWER CONSUMPTION: 4 x 60W
WEIGHT: 44 LBS. EXCL. MOUNTING HARDWARE



RRUS-4426 B66 SPECIFICATIONS | 5

ERICSSON RRUS-32

DIMENSIONS: WxDxH: 12.1" x 7.0" x 27.2"
TOTAL WEIGHT, 60 lbs
MODEL: RRU-32



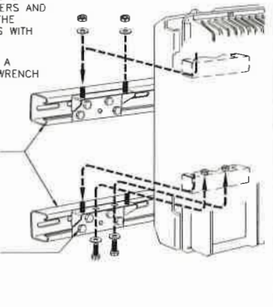
RRUS-32 SPECIFICATIONS | 4

HOOK THE RRUS ONTO THE STUD BOLTS ON THE WALL BRACKETS. MOUNT THE WASHERS AND THE NUTS ONTO THE STUD BOLTS ON THE UPPER BRACKET AND INSERT THE BOLTS WITH WASHERS IN THE LOWER FIXTURE.

TIGHTEN THE M10 NUTS AND BOLTS TO A TORQUE OF 41 Nm, USING A TORQUE WRENCH FITTED WITH A 16MM SOCKET.

AT&T MOBILITY CONTRACTOR TO INSTALL (2) 1 5/8" x 1 5/8" UNISTRUT CHANNELS TO NEW H-FRAME WITH 1/2" COATED STEEL BOLTS, 2H HEAVY HEX NUTS & F436 STRUCTURAL WASHERS

NOTE: RRUS TO BE MOUNTED OT UNISTRUT CHANNEL WITH 1/2" COATED STEEL, BOLTS, 2H HEAVY HEX NUTS & F436 STRUCTURAL WASHERS



RRUS MOUNTING | 6

ERICSSON BASEBAND R503 XMU
BASEBAND AUXILARY MULTIPLEXING UNIT

DIMENSIONS (HxWxD): (with solar shield and handle)	1.22" x 13.8" x 11"
WEIGHT:	5 lbs
HEAD DISSIPATION:	50W

PLATFORM FOR CPRI MULTIPLEXING AND DE-MULTIPLEXING
- -16x SFP+ PORTS
  - PLUGGABLE OPTICAL TRANSCEIVERS
  - DIRECT ATTACH CABLES
- -48V DC POWERING
- -FANLESS



TARGET RELEASE - L14B
- -2x (10Gbps -> 4x 2.5 Gbps)

XMU SPECIFICATIONS | 7

ERICSSON BASEBAND - 5216

DIMENSIONS (WxDxH): 31x280x350 mm (1.22"x11.02"x13.78")

BBU 5216 CONTAINS BUILT-IN CELL SITE ROUTER FUNCTIONALITY & IS EQUIPPED WITH ETHERNET PORTS FOR TRANSPORT, WHICH CAN BE USED FOR RESILIENCY OR FOR CONNECTING SITE EQUIPMENT.
- TN A: 1x GigE (Gbps Electrical Ethernet) RJ-45 Ethernet port
- TN B and TN C: 2x 1Gbps Electrical/Optical Ethernet (SFP+)

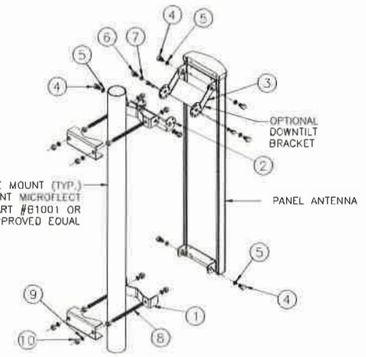
6x 2.5G TO 10G SFP/SFP + CPRI PORTS

2x IDLe PORTS

BBU 5216 SUPPORTS 2.5 GB, 5 GB AND 10 CPRI CONNECTIONS.



BBU 5216 SPECIFICATIONS | 8



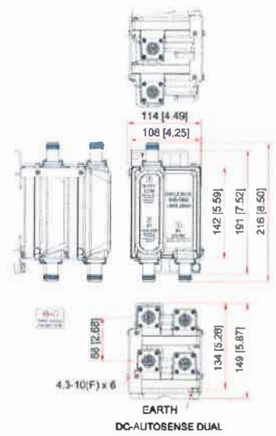
NOTES:
1. INSERT SCISSOR BRACKETS BETWEEN THE UPPER ANTENNA MOUNTING BRACKET AND THE UPPER POLE ADAPTER BRACKET. SECURE USING 1/2 INCH HARDWARE PROVIDED.
2. TO SET THE DEGREE OF DOWNTILT, ALIGN THE DESIRED HOLES ON THE SCISSOR BRACKETS AND SECURE USINT 5/16 INCH HARDWARE PROVIDED.
3. THE NUMBER OF CONNECTORS WILL VARY BASED ON ANTENNA TYPE.

ITEM	QTY	DESCRIPTION
1	1	ADAPTER, POLE, LOWER
2	1	BRACKET, DOWNTILT, POLE
3	1	BRACKET, DOWNTILT, ANTENNA
4	6	1/2 x 1 HEX HEAD BOLT
5	6	1/2 SPLIT WASHER
6	2	5/16 x 1 HEX HEAD BOLT
7	2	5/16 SPLIT WASHER
8	4	1/2" THREADED ROD
9	8	1/2" SPLIT WASHER
10	12	1/2" NUT

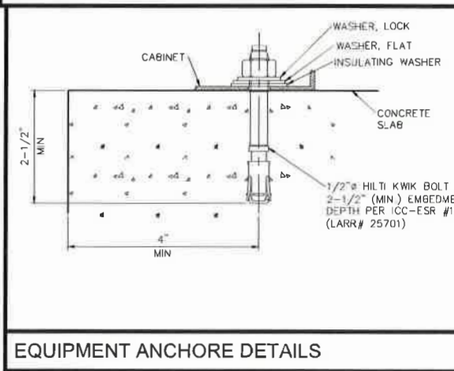
ANTENNA MOUNTING SPECIFICATIONS | 9

KAELUS - DBC0115F1V91-2

DIMENSIONS (HXDXW): (SINGLE UNIT)	4.25 x 5.59 x 2.60 INCHES (108 x 142 x 66 mm)
DIMENSIONS (HXDXW): (TWIN UNIT)	4.25 x 5.59 x 5.28 INCHES (203 x 158 x 164 mm)
WEIGHT:	1.6 kg / 3.53 lbs (SINGLE UNIT) 3.2 kg/ 7.06 lbs (TWIN UNIT)
FINISH:	PAINTED, NCS 1502-R
CONNECTORS:	DIN 4.3-10 (F) x 3 LONG NECK (SINGLE UNIT) DIN 4.3-10 (F) x 6 LONG NECK (TWIN UNIT)
MOUNTING:	POLE/WALL BRACKET SUPPLIED WITH TWO METAL CLAMPS FOR 45-178 mm DIAMETER POLES



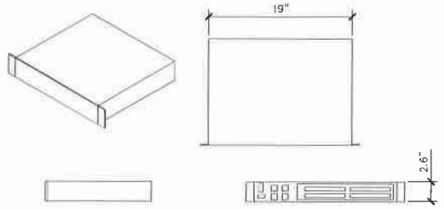
DIPLEXER SPECIFICATIONS | 10



EQUIPMENT ANCHORE DETAILS | 11

ERICSSON RBS 6601

DIMENSIONS (WxDxH):	66x483x350 mm (2.6"x19"x14")
TEMPERATURE:	+41°F TO +122°F
HUMIDITY:	5% - 85%
POWER SUPPLY:	-48 VDC
TOTAL WEIGHT:	16 LBS.



RBS 6601 V2 CHASSIS SPECIFICATIONS | 12

APPLICANT:

The new at&t
1452 EDINGER AVE.
TUSTIN, CA 92780

ENGINEER:

Eukon
an SFC Communications, Inc. Company
65 POST, SUITE 1000
IRVINE, CA 92618
TEL: (949) 553-8566
www.eukongroup.com

DRAWN BY:	ER/CA/EC/AC
CHECKED BY:	JJD/LM

REVISIONS:

REV	DATE	DESCRIPTION
2	09/11/18	SCE COMMENTS
1	06/18/18	SCE COMMENTS
0	02/08/18	100% CONSTRUCTION DRAWING
A	11/28/17	90% CONSTRUCTION DRAWING

LICENSER:

REGISTERED PROFESSIONAL ENGINEER
CHRIS S. LEE
76549
CIVIL
STATE OF CALIFORNIA

PROJECT INFORMATION:

LA8008
SCE CHINO
13835 EUCLID AVE.
ONTARIO, CA 91762

SHEET TITLE:

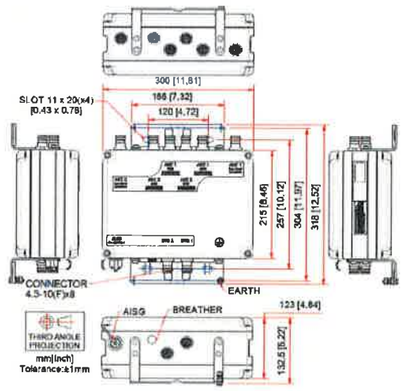
EQUIPMENT AND CONSTRUCTION DETAILS

SHEET NUMBER:

A-8

KAELUS - TMA2116F00V1-1

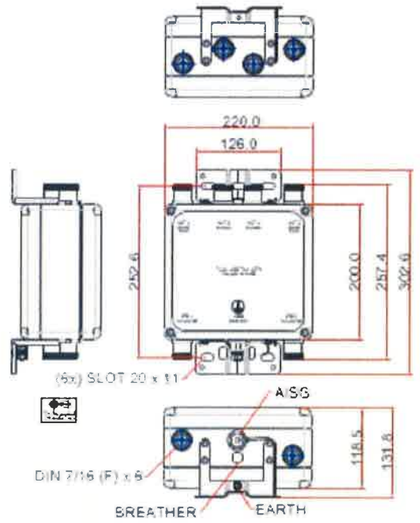
DIMENSIONS (HXDXW):	11.8 x 8.46 x 4.8 INCHES (300 x 215 x 123 mm)
WEIGHT:	11 kg / 24 lbs
FINISH:	PAINTED, LIGHT GREY (RAL7035)
CONNECTORS:	DIN 7-16 (F) x 8 LONG NECK
MOUNTING:	POLE/WALL BRACKET SUPPLIED WITH TWO METAL CLAMPS FOR 45-178 mm DIAMETER POLES



TMA SPECIFICATIONS | 1

KAELUS - TMA2104F00V1-1

DIMENSIONS (HxDxW):	220x200x104 mm 8.7"X7.9"X4.1"
WEIGHT:	7.7kg / 17lbs.
FINISH:	PAINTED, LIGHT GRAY (RAL7035)
CONNECTORS:	DIN 7-16 (F) x 6 LONG SHANK, AISG (F) x 1
MOUNTING:	POLE/WALL BRACKET SUPPLIED WITH TWO METAL CLAMPS 45-178mm DIAMETER POLES



TMA SPECIFICATIONS | 2

EMERSON NETSURE - 512 DC POWER SYSTEM

DC POWER SYSTEM FEATURES:

NOMINAL SYSTEM VOLTAGE:	-48 VDC or +24 VDC
CONTROL:	MICROPROCESSOR (ACU+)

RATED OUTPUT CAPACITY - MAXIMUM CONFIGURATION

SYSTEM:	525 amps at -48 VDC plus redundancy 400 amps at +24 VDC plus redundancy
RECTIFIER:	2000 watts (41.7 A)
CONVERTER:	1200 watts (50 A), -48 VDC to +24 VDC
DISTRIBUTION PANEL (TOP):	Wired for (16) +24V and (13) -48 V bullet positions
(BOTTOM):	(30) -48 V bullet positions

ENVIRONMENTAL:

OPERATING TEMPERATURE:	-40 °F to 115 °F (-40 °C to 46 °C) continuous operation
HUMIDITY:	0% to 95% relative humidity, non-condensing

THERMAL SOLUTIONS:

POWER CHAMBER:	2500 watt door-mounted heat exchanger, 2 RU available spce for surge protection
BATTERY CHAMBER:	Fan cooled, fresh air ventilation, holds up to (3) battery strings

EQUIPMENT:

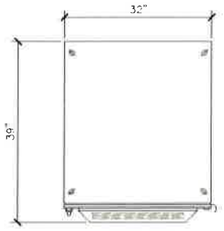
GROUND BAR:	10 POSITIONS
TERMINAL BLOCK:	12-position Phoenix alarm block 32-position Phoenix alarm bunching block

SAFETY:

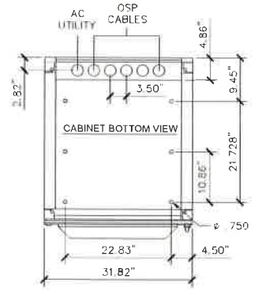
DC POWER SYSTEM:	UL 1801 Listed (US & Canada), NEBS Level 3
ENCLOSURE:	GR-487, UL 60950, and Seismic Zone 4 compliant

MECHANICAL SPECIFICATIONS:

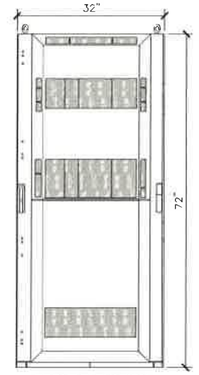
DIMENSIONS:	72"H x 32"W x 39"D
WEIGHT:	752 lbs.



PLAN VIEW



MOUNTING BOLT DOWN PATTERN



FRONT ELEVATION

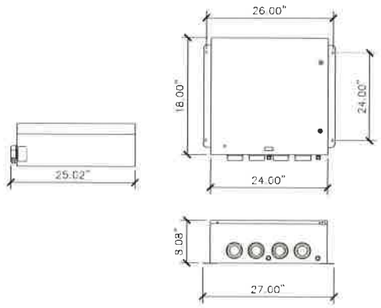


SIDE ELEVATION

NEW POWER PLANT SPECIFICATIONS | 3

RAYCAP DC12-48-60-0-25E

CONNECTION TERMINAL (SUPPRESSION) METHOD:	COMPRESSION LUG
CONNECTION TERMINAL	COPPER: #14 TO #2 AWG [2.5 to 35 mm²]
(SUPPRESSION) HARDWIRED:	ALUMINUM: #12 TO #2 AWG [4 to 35mm²]
FROM C CONTACT CONNECTION (TERMINAL BLOCK) HARDWIRED:	#22 TO #12 AWG [.034 to 4mm²]
OPERATING TEMPERATURE (C°):	-40°C TO +100°C
STORAGE TEMPERATURE (C°):	-70°C TO +80°C
ENCLOSURE TYPE (OUTDOOR):	NEMA 4 RATED
ENCLOSURE DIMENSION (LxWxH):	24"x24"x8" [609.6x609.6x203.2mm]
WEIGHT:	56.3lbs [25.54kg]

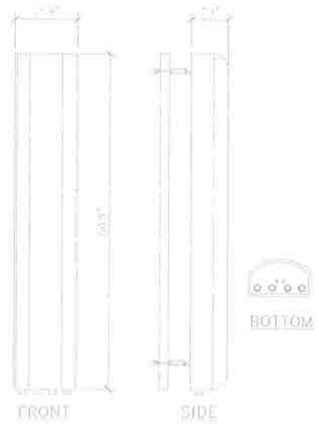


DC12 RAYCAP SPECIFICATIONS | 4

DETAIL A-A

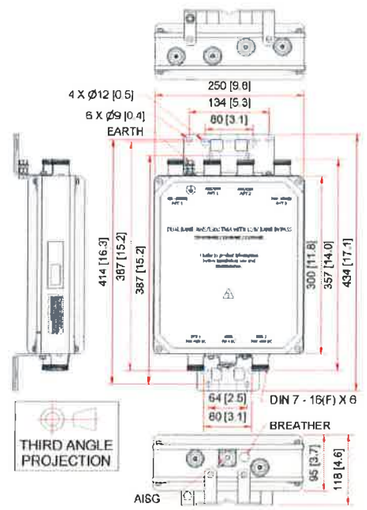
H-FRAME DETAIL | 5

ANDREW - SBNH-1D6565A



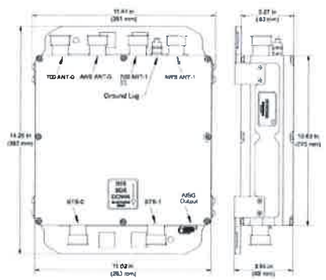
EXISTING ANTENNA | 6

KAELUS - TMA2063F00V1-1



EXISTING TMA | 7

CCI - DTMABP0721VG12A



EXISTING TMA | 8

APPLICANT:

The new at&t

1452 EDINGER AVE.
TUSTIN, CA 92780

ENGINEER:

Eukon
an SFC Communications, Inc. Company
65 POST, SUITE 1000
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TEL: (949) 553-8566
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REVISIONS:

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LICENSER:

REGISTERED PROFESSIONAL ENGINEER
CHRIS S. LEE
76549
CIVIL
STATE OF CALIFORNIA

PROJECT INFORMATION:

LA8008
SCE CHINO
13835 EUCLID AVE.
ONTARIO, CA 91762

SHEET TITLE:

EQUIPMENT AND CONSTRUCTION DETAILS

SHEET NUMBER:

A-9

MOINE BROS.
CONTRACTOR'S LIC. NO. 849229

UNDERGROUND TANK CLOSURE REPORT

7255 Schaefer Avenue, Ontario, CA 91761

September 7, 2011

This report describes the removal of an underground storage tank from the property at 7255 Schaefer Avenue, Ontario, California. The tank was 550 gallons in volume, was of single-wall steel construction, and was formerly used to store diesel fuel. The dispenser island was located directly over the tank, and the tank-related piping did not extend beyond the tank excavation.

The soils covering the tank were excavated and stockpiled at the site on August 31, 2011. In compliance with SCAQMD Rule 1166, SCAQMD was notified prior to beginning the excavation, and volatile organic compound (VOC) concentrations in the air were monitored as the excavation progressed.

The tank-related piping was flushed with water, disconnected, and removed, and the tank was triple-rinsed/pressure-washed in-place and removed on September 1, 2011. Residual liquids and rinse water were collected in a vacuum truck and were manifested, transported, and disposed of (recycled) off-site at a licensed TSDF. Tank atmospheric readings were taken and dry ice was placed into the tank. Upon approval of on-site County and City Fire Department on-site representatives, the tank was removed from the excavation. The tank appeared to be in very good condition with no apparent holes or cracks. The tank was loaded into a dump truck and transported off-site for destruction and recycling.

After removal of the tank from the excavation, at the direction of Angela Samayoa of San Bernardino County Fire Department, a soil sample was collected from a depth of approximately three feet beneath the tank invert, approximately 12 feet beneath the ground surface. The sample was immediately stored on ice, and was delivered to a State-certified environmental laboratory on the same day. The sample was analyzed for TPH-carbon chain (E.P.A. Method 8015M), for VOC, BETX, MTBE, and fuel oxygenates (E.P.A. 8260B), and for lead (SW846 6010B).

Soil sample analytical results are displayed in the following table:

Compounds / test method:	Concentration:
V.O.C., B.E.T.X., M.T.B.E., fuel oxygenates / E.P.A. 8260B	Not detected
T.P.H. (C5-C24) / E.P.A. 8015M	Not detected
T.P.H. (C25-C40) / E.P.A. 8015M	57 mg/Kg
Lead / SW846 6010B	12 mg/Kg

Copies of the permits, inspection record, air monitoring log, tank rinse manifest, tank certification, dry ice receipt, tank destruction certificate, site map, and soil sample analytical report are attached herewith.

Please contact me if you have questions or require anything further.

Sincerely,

Virgil Cicoria
Project Manager

POST THIS CARD AT JOB SITE

SAN BERNARDINO COUNTY FIRE DEPARTMENT/CUPA
OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 SOUTH "E" STREET
SAN BERNARDINO, CA 92415-0153

LOG # 081911-02 JOB CARD Nº 10326

INSTALL _____ REMOVE 1

CONSTRUCTION AND/OR REMOVAL OF UNDERGROUND STORAGE FACILITY

Site Name Summerhill Dairy
Address 7355 Schaeffer Ave, Ontario
Contractor Moine Bros
Address/Phone 521 East D St, Wilmington, CA

	INSPECTION RECORD	APPROVED	DATE
FIRST INSPECTION	Excavation Clean, Approved Slope		
	Bedding		
	Holiday/Soap Test, Tanks Set X		
	Manufacturer's UL #		
	Additional Requirements		
	DO NOT BACKFILL UNTIL ABOVE APPROVED		
SECOND INSPECTION	Tank Air Test 5 PSI/30 Minutes		
	Vent/Vapor Lines		
	Products Lines 75 PSI/30 Minutes		
	Product Line Containment		
	Metal Piping Wrapped		
	Sumps, Dispenser Pans Water Test		
THIRD INSPECTION	Approved Fill Boxes		
	Concrete or AC Paving 12" Beyond		
	Leak Detectors/Monitors		
	Lockable Fluid-Tight Access for Monitoring		
	Precision Test Results		
	Dispenser Containment		
	Emergency Shut-off		
	Additional Requirements		
REQUIRED PRIOR TO OPERATING	Business Plan		
	Monitoring Plan		
	Financial Responsibility		

FINAL APPROVAL AND CURRENT OPERATING PERMITS MUST BE OBTAINED PRIOR TO PLACING THESE TANKS INTO SERVICE ($5,000.00 FINE FOR NONCOMPLIANCE)

TANK REMOVAL INSPECTION	Tank(s) Removed X		
	Required Samples: 8020, 8015, MTBE, 418.1 8260B		9/1/2011
	Lead (pb) 7421 or ICP 6010, Metals EPA ~~PP13~~		
	Additional Test Requirements		
	Removals Cannot be Finaled Until a Signed Copy of the Sample Results Have Been Received and Approved by this Department.		
	Final — Approved for Backfill		

Remarks: Submit closure report

FAILURE TO PROTECT AND MAINTAIN THIS CARD MAY RESULT IN JOB DELAY.
PRESERVE THIS RECORD OF INSPECTIONS.

FOR INSPECTION CALL 48 HOURS IN ADVANCE AT (909) 386-8464

THIS PERMIT EXPIRES 5/19/12

☐ PETROLEUM ☐ WASTE OIL ☐ OTHER

DISTRIBUTION: *White — County Fire Department*

14-16867-670 Rev. 2/03

FM-11-0254

CUPA
SAN BERNARDINO COUNTY FIRE DEPARTMENT
HAZARDOUS MATERIALS DIVISION – FIELD SERVICES/ENVIRONMENTAL PROTECTION
~~385 NORTH ARROWHEAD AVE., 2ND FLOOR~~, SAN BERNARDINO, CA 92415-0153
620 S. "E" ST. ~~(909) 387-3082 • FAX (909) 387-4323~~ (909) 386-8464

APPLICATION FOR REMOVAL OF UNDERGROUND STORAGE TANK

$ _____ First Tank

$ _____ Each Additional Tank Number of Tanks this Application 1

JOB LOCATION

SUMMERHILL DAIRY AND ART VENEGAS DAIRY	JOHN DE JONG	(800) 468-6554
Facility Name	Contact Person	Phone No.
7255 SCHAEFER AVE.,	ONTARIO, CA	91761
Situs Address	City	Zip Code
Water/Sewer Agency	Fire	

PROPERTY OWNER

ARTEVAL OF CALIFORNIA, LLC		(213) 680-9212
Name		Phone No.
800 WILSHIRE BL., #1500,	LOS ANGELES, CA	90017
Mailing Address	City	Zip Code
GEORGE R. PHILLIPS, SR.		(213) 680-9212
Owner's Representative		Phone No.

TANK CONTENTS

(1) 1,000-GAL. ± DIESEL - STORAGE

CONTRACTOR

MOINE BROS.	VIRGIL CICORIA	(310) 830-1570
Company Name	Contact Person	Phone No.
521 EAST D STREET,	WILMINGTON, CA	90744
Mailing Address	City	Zip Code
CALIFORNIA INSURANCE CO.	#46-839402-01-01,	EXP. 5/1/2012
Workman's Comp Insurance Carrier	Policy No.	
849229	C21, C61-D40 (HAZ.)	11/30/2012
State Contractor's License No.	Types of Licenses	Expiration Date

NOTE: The State of California has determined that tanks used for the storage of any hazardous or flammable substance shall be considered hazardous even if all contents have been removed.

All storage tanks shall be hauled as hazardous waste, accompanied by a state hazardous waste manifest, and taken to a licensed treatment, storage and disposal facility (TSDF); or if the tanks are triple rinsed on site and the rinsate manifested and hauled to a licensed TSDF, the tank may be handled as nonhazardous.

For information on licensed TSDFs that can accept nonrinsed tanks, contact the State of California Department of Health Services, Toxic Substance Control at (800) 258-6942.

CHARLES MOINE	(310) 830-1570
Print Name Clearly	Phone
Signature	8/19/11
	Date

OFFICE USE ONLY

Under Permit ☐ No ☐ Yes FA0000457 Establishment Number

Number of Tanks 1

Fees Current ☑ No 5168 Delinquent Amount

☐ Yes _____ Expiration Date

4910.00 Permit Fee Paid THIS Application / 684510 / Receipt Number

4064 Check Number

8/19/11 Date Paid

Taken by

081911-02 Log Number 10320 Job Card Number

City of Ontario
Bureau of Fire Prevention
415 EAST B STREET
ONTARIO, CA 91764
PHONE (909) 395-2029 FAX (909)395-2585

08-22-2011

FIRE DEPARTMENT PERMIT

PERMIT NO.: FM-11-0254

BUSINESS NAME: **MOINE BROS. -- VIRGIL CICORIA**

STREET ADDRESS: **521 EAST D STREET**
WILMINGTON, CA
90744
310-830-1570

LOCATION: **7255 E SCHAEFER AV ONTA**

PERMITTED USE: **One Underground Tank Removal**

This permit is issued pursuant to the Ontario Muncipal Code and is subject to the conditions and limitations below and on any document(s) filed with the permit application. At the time of issuance, the business was in substantial compliance with the City of Ontario Fire Code regulating the permitted use. This permit shall be considered void if changes in inspected conditions occur without the written acknowledgment of the Ontario Fire Department.

ISSUED BY: D. Gamboa

DATE ISSUED: 8/22/11 EXPIRATION DATE: 11/22/11

COMMENTS:
Removal of one 1,000 gallon diesel-storage underground steel tank and related piping and dispenser island to be removed.

Contact: Virgil Cicoria -- 310-830-1570

Applicant to call the Fire Prevention Bureau at 909-395-2562 when an inspection date is scheduled with the County of San Bernardino for removal of the tank.

Rule 1166 Soil Monitoring Records

Company Name	Facility/Site Information
Ardent Environmental Group, Inc. 1141 Pomona Road, Suite E Corona, CA 92882	7255 Schaefer Avenue Ontario, Ca Project No. 100313001
Reference No(s). 283912	

Plan #: 525364 I.D.#: 168313

Monitor Information		Calibration Data		Monitoring Personnel		Excavation Summary (Upon completion of each page)	
Brand:	Mini Rae	Gas:	Hexane	Name:	Connie Lizarraga	Total Cubic Yds (This page)	9
Model:	Mini Rae 2000	Date	8/8/11	Company:	Ardent Env. Grp.	Total Cubic Yds (To date)	9
Type	PID	By	Geotechical Svs	Phone:	951) 736-5334	Removed from Site (To date)	none

Time	VOC Concentration (PPMV) @ Excavated Load			Comment	Time	VOC Concentration (PPMV)@ Excavated Load			Comment
Every 15 min.	Reading	Hexane Factor	Adjusted Reading		Every 15 min.	Reading	Hexane Factor	Adjusted Reading	
12:30	0.3	—	—	Beginning Excavation					
12:45	0	—	—						
1:00	0	—	—						
1:15	0	—	—						
1:30	0	—	—						
1:45	0	—	—	End Excavation					

I certify that the information contained in the above document is true and correct. I further certify that the above listed hydrocarbon monitor was operated in a manner consistent with the manufacturer's specifications and the conditions specified within this plan. In addition, I certify that the above readings represent the actual measurements I observed and recorded during the excavation process.

SIGNATURE: Connie Lizarraga DATE: 8/31/2011

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAC002673990	1	310 678-2500	004291182 JJK

GENERATOR

5. Generator's Name and Mailing Address

ARTESIA OF CALIFORNIA LLC
800 WILSHIRE BLVD. SUITE 1500
LOS ANGELES, CA 90017

Generator's Phone: 213 680-9212 Attn: GEORGE PHILLIPS

Generator's Site Address (if different than mailing address)

SUMMER HILL DAIRY
7255 SCHAEFER AVENUE
ONTARIO, CA 91762

6. Transporter 1 Company Name: ADAMS SERVICES, INC. — U.S. EPA ID Number: CAR000189431

7. Transporter 2 Company Name — U.S. EPA ID Number:

8. Designated Facility Name and Site Address

DEMENNO/KERDOON
2000 N. ALAMEDA STREET
COMPTON, CA 90222

Facility's Phone: 310 637-7100

U.S. EPA ID Number: CAT080013352

9a. HM	9b. U.S. DOT Description (Including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NON-RCRA HAZARDOUS WASTE LIQUID (OIL & WATER)	1	TT	250	G	243
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information

1) 99% WATER, 1% OIL
AVOID EYE CONTACT & WEAR RUBBER GLOVES ERG 128
CONTRACTOR: MOORE BROS.

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: X EDUARDO VARGAS — Signature: X [signature] — Month: 09 — Day: 01 — Year: 11

INTL

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CHAD CHRISTIE — Signature: [signature] — Month: 09 — Day: 01 — Year: 11

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) — Month — Day — Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: MONICA MUÑOZ — Signature: [signature] — Month: 09 — Day: 01 — Year: 11

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

00001

TRANSPORTER'S COPY

PRAXAIR

FREIGHT CHARGES	NO. OF PIECES	PULLED BY

Warning: Transporting flammable gases and/or hazardous materials in an enclosed van, automobile or automobile trunk is very dangerous because it can cause a fire or explosion resulting in serious injury or death. Read cylinder label warnings, Material Safety Data Sheets (MSDSs) and/or safety booklet P-3499.

PICKING TICKET

Sold by: PRAXAIR DISTRIBUTION INC
2006 EAST 223RD STREET
LONG BEACH CA 90810
(310) 816-9397

Cust # : CW839

Order # : 178502246-00

Ship to: MOINE BROS *MMS*
DRY ICE ONLY
621 EAST D ST
WILMINGTON CA 90744
310-830-1570

Order Date: 08/31/11
Ship Date: 08/31/11
Page : 001 OF 001

NAME : MOINE BROS INC *MMS* TER: 231 SHIP VIA: CUST PICKUP -NONE- INITIALS: ECV
PO # : SLS: 253 OTH ZONE: 60 UPS: 0 ORD TYPE: CHRG
REL# : BRN: 256 COL/PPD : PPD&Add TIME : 31-AUG-11 07:41PM
PHONE#: 310-830-1570 ROUTE # : CRT : TNA4914

QTY SHIP	UNIT	HM	DESCRIPTION & HAZARD CLASS	ID NUMBER	LINE NO	ITEM NUMBER	LOC	QTY ORDER	CYLINDERS SHIP	CYLINDERS RCTN	VOL/ WT	UNIT AMOUNT	EXTENDED AMOUNT
50	LB	X	CARBON DIOXIDE, SOLID, 9, PG III	UN1845	1	CD BLOCK	256	50			50 50.0		
			(DRY ICE BLOCK)										

QTY SHIP	UNIT	HM	DESCRIPTION & HAZARD CLASS	LINE NO	ITEM NUMBER	LOC	QTY ORDER	QTY BKORD	BIN LOC	WT	UNIT AMOUNT	EXTENDED AMOUNT
1	EA		HAZARDOUS MATERIAL CHARGE	2	ZZZ HM	256	1	0		.0		
			Total Weight: 50.0									

This is to certify that the above named materials are properly classified, described, packaged, marked and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

EMERGENCY RESPONSE TELEPHONE NUMBER:
CALL CHEMTREC 1-800-424-9300

Authorized Signature _____

Received by _____

DATE SHIPPED: 8/31/11

PLACARDS OFFERED: ACCEPTED REJECTED

CONTINUOUS SHIPPER 3P1

CUSTOMER'S COPY

CUPA
San Bernardino County Fire Department • Hazardous Materials Division
620 South 'E' Street, San Bernardino, CA 92415-0153 • (909) 386-8401 FAX (909) 386-8460

HAZARDOUS WASTE TANK CLOSURE CERTIFICATION

Page ___ of ___

I. FACILITY IDENTIFICATION

| | | |

MOINE BROS.

CONTRACTORS LIC. NO. 343468

CERTIFICATE OF DESTRUCTION

On this FIRST day of SEPTEMBER (month), 20 11, empty tanks/containers (as described below) were accepted by Moine Bros. and were cut/sheared or otherwise processed for scrapping in a safe and legal manner according to standard practices.

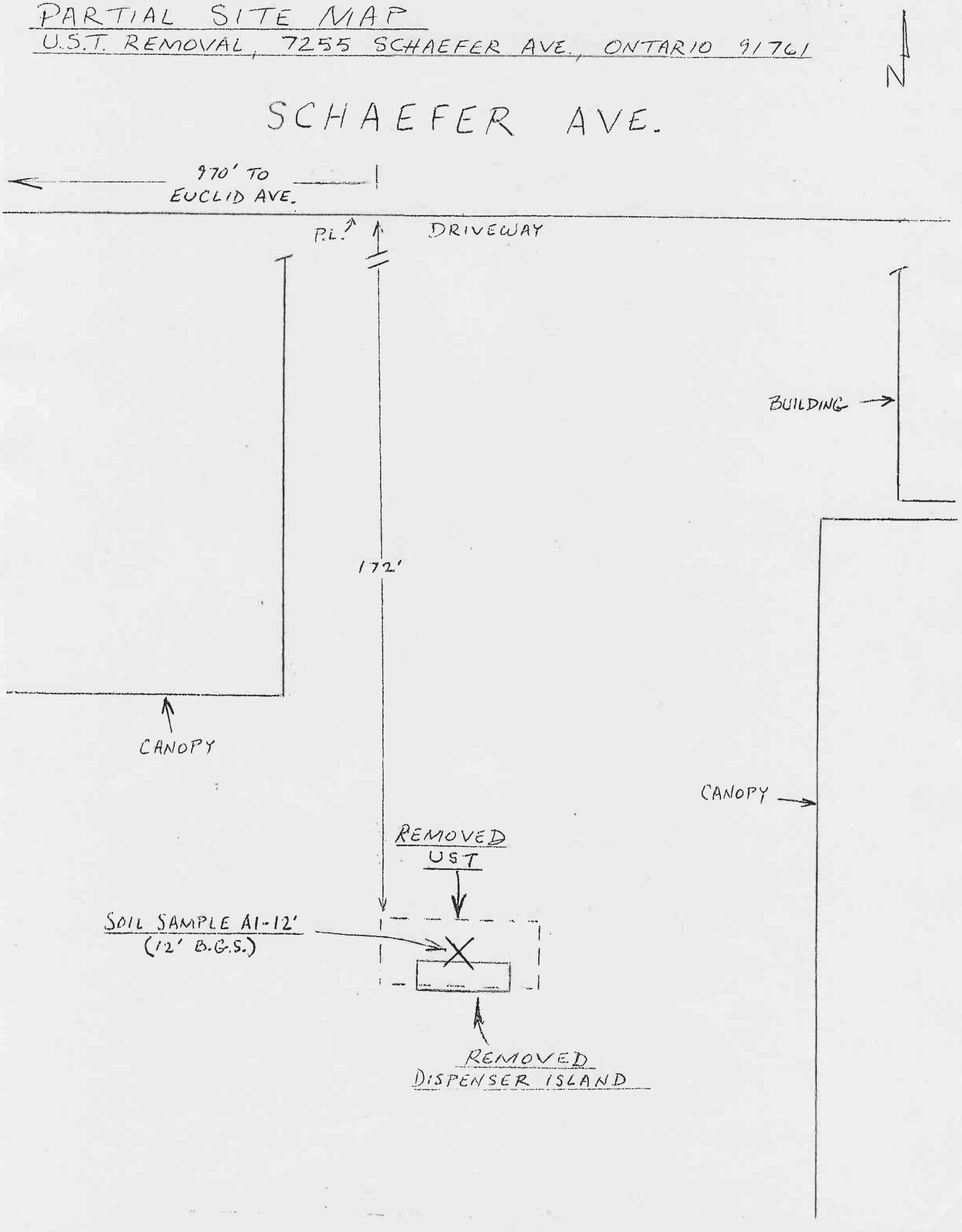
Item	Size	Description	Source
#1	550-GAL.	STEEL TANK	7255 SCHAEFER AVE., ONTARIO, CA 91761
#2			
#3			
#4			
#5			
#6			
#7			
#8			
#9			
#10			

Moine Bros. — Date: 9/1/11

521 EAST "D" STREET, WILMINGTON, CALIFORNIA 90744 • PHONE (310) 830-1570 • FAX (310) 830-1892

PARTIAL SITE MAP

U.S.T. REMOVAL, 7255 SCHAEFER AVE., ONTARIO 91761



CAL TECH Environmental Laboratories

6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

ANALYTICAL RESULTS*

CTEL Project No: CT185-1109011
Client Name: Moine Bros.
521 East "D" Street
Wilmington, CA 90744
Phone: (310) 830-1570
Fax: (310) 830-1892
Attention: Mr. Virgil Cicoria

Project ID:
Project Name: 7255 Schaefer Ave., Ontario

Date Sampled: 09/01/11 @ 11:45 am
Date Received: 09/01/11 @ 14:30 p.m.
Date Analyzed 09/01/11 – 09/02/11

Matrix: Soil
Extraction Method: 5035

Laboratory ID:	1109-011-1	**Method**	**Units:**	**Detection Limit**
Client Sample ID:	A1-12'			
Dilution	1			
Dichlorodifluoromethane	ND	EPA 8260B	mg/Kg	0.005
Chloromethane	ND	EPA 8260B	mg/Kg	0.005
Vinyl Chloride	ND	EPA 8260B	mg/Kg	0.005
Bromomethane	ND	EPA 8260B	mg/Kg	0.005
Chloroethane	ND	EPA 8260B	mg/Kg	0.005
Trichlorofluoromethane	ND	EPA 8260B	mg/Kg	0.005
Iodomethane	ND	EPA 8260B	mg/Kg	0.005
Acetone	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloroethene	ND	EPA 8260B	mg/Kg	0.005
t-Butyl Alcohol (TBA)	ND	EPA 8260B	mg/Kg	0.020
Methylene Chloride	ND	EPA 8260B	mg/Kg	0.02
Freon 113	ND	EPA 8260B	mg/Kg	0.01
Carbon disulfide	ND	EPA 8260B	mg/Kg	0.005
Trans,1,2-Dichloroethene	ND	EPA 8260B	mg/Kg	0.005
Methyl-tert-butyl-ether(MtBE)	ND	EPA 8260B	mg/Kg	0.002
1,1-Dichloroethane	ND	EPA 8260B	mg/Kg	0.005
Vinyl acetate	ND	EPA 8260B	mg/Kg	0.005
Diisopropyl Ether (DIPE)	ND	EPA 8260B	mg/Kg	0.002
Methyl Ethyl Ketone	ND	EPA 8260B	mg/Kg	0.01
Cis,1,2-Dichloroethene	ND	EPA 8260B	mg/Kg	0.005
Bromochloromethane	ND	EPA 8260B	mg/Kg	0.005
Chloroform	ND	EPA 8260B	mg/Kg	0.005
2,2-Dichloropropane	ND	EPA 8260B	mg/Kg	0.005
Ethyl-t-butyl ether (ETBE)	ND	EPA 8260B	mg/Kg	0.002
1,1,1-Trichloroethane	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichloroethane	ND	EPA 8260B	mg/Kg	0.005
1,1-Dichloropropene	ND	EPA 8260B	mg/Kg	0.005
Carbon Tetrachloride	ND	EPA 8260B	mg/Kg	0.005
Benzene	ND	EPA 8260B	mg/Kg	0.001
t-Amyl Methyl Ether (TAME)	ND	EPA 8260B	mg/Kg	0.002
1,2-Dichloropropane	ND	EPA 8260B	mg/Kg	0.005
Trichloroethene	ND	EPA 8260B	mg/Kg	0.005
Dibromomethane	ND	EPA 8260B	mg/Kg	0.005
Bromodichloromethane	ND	EPA 8260B	mg/Kg	0.005
2-Chloroethylvinylether	ND	EPA 8260B	mg/Kg	0.005
Cis, 1,3-Dichloropropene	ND	EPA 8260B	mg/Kg	0.005
4-Methyl-2-pentanone(MI)	ND	EPA 8260B	mg/Kg	0.01
Trans,1,3-Dichloropropene	ND	EPA 8260B	mg/Kg	0.005
Toluene	ND	EPA 8260B	mg/Kg	0.001
1,1,2-Trichloroethane	ND	EPA 8260B	mg/Kg	0.005

CTEL Project No: CT185-1109011

Project ID:
Project Name: 7255 Schaefer Ave., Ontario

Laboratory ID: / **Client Sample ID:**	1109-011-1 A1-12'	**Method**	**Units**	**Detection Limit**
1,2-Dibromoethane(EDB)	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichloropropane	ND	EPA 8260B	mg/Kg	0.005
Dibromochloromethane	ND	EPA 8260B	mg/Kg	0.005
2-Hexanone	ND	EPA 8260B	mg/Kg	0.01
Tetrachloroethene	ND	EPA 8260B	mg/Kg	0.005
Chlorobenzene	ND	EPA 8260B	mg/Kg	0.005
1,1,1,2-Tetrachloroethane	ND	EPA 8260B	mg/Kg	0.005
Ethylbenzene	ND	EPA 8260B	mg/Kg	0.001
m.p-Xylene	ND	EPA 8260B	mg/Kg	0.001
Bromoform	ND	EPA 8260B	mg/Kg	0.005
Styrene	ND	EPA 8260B	mg/Kg	0.005
o-Xylene	ND	EPA 8260B	mg/Kg	0.001
1,1,2,2-Tetrachloroethane	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichloropropane	ND	EPA 8260B	mg/Kg	0.005
Isopropylbenzene	ND	EPA 8260B	mg/Kg	0.005
Bromobenzene	ND	EPA 8260B	mg/Kg	0.005
2-Chlorotoluene	ND	EPA 8260B	mg/Kg	0.005
n-Propylbenzene	ND	EPA 8260B	mg/Kg	0.005
4-Chlorotoluene	ND	EPA 8260B	mg/Kg	0.005
1,3,5-Trimethylbenzene	ND	EPA 8260B	mg/Kg	0.005
Tert-Butylbenzene	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trimethylbenzene	ND	EPA 8260B	mg/Kg	0.005
Sec-Butylbenzene	ND	EPA 8260B	mg/Kg	0.005
1,3-Dichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
1,4-Dichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
p-Isopropyltoluene	ND	EPA 8260B	mg/Kg	0.005
1,2-Dichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
n-Butylbenzene	ND	EPA 8260B	mg/Kg	0.005
1,2 Dibromo-3-Chloropropane	ND	EPA 8260B	mg/Kg	0.005
1,2,4-Trichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
Naphthalene	ND	EPA 8260B	mg/Kg	0.005
1,2,3-Trichlorobenzene	ND	EPA 8260B	mg/Kg	0.005
Hexachlorobutadiene	ND	EPA 8260B	mg/Kg	0.005
Ethanol	ND	EPA 8260B	mg/Kg	0.1
Carbon Chain (C5~C12)	ND	EPA 8015M	mg/Kg	0.1
Carbon Chain (C13~C24)	ND	EPA 8015M	mg/Kg	1
Carbon Chain (C25~C40)	57	EPA 8015M	mg/Kg	5
Lead (Pb)	12	SW846 6010B	.mg/Kg	1

ND = Not Detected at the indicated Detection Limit

SURROGATE SPIKE	% SURROGATE RECOVERY	Control Limit
Dibromofluoromethane	105	70-130
1,2 Dichloromethaned4	102	70-130
Toluene-d8	93	70-130
Bromofluorobenzene	102	70-130

Greg Tejiran
Laboratory Director

*The results are base upon the sample received. Soil samples are not homogeneous

Cal Tech Environmental Laboratories, Inc. ELAP ID #: 2424

CAL TECH Environmental Laboratories
6814 Rosecrans Avenue, Paramount, CA 90723-3146
Telephone: (562) 272-2700 Fax: (562) 272-2789

Lab Job No. 09-011 Page 1 of 1

Chain of Custody Record

Client: MOINE BROS.
Contact: VIRGIL CICORIA
Address: 521 EAST D STREET
WILMINGTON, CA 90744
Project: 7255 SCHAEFER AVE., ONTARIO
Sampled By: ELPIDIO VARGAS - Elpidio Vargas
Name/Signature

Phone: (310) 830-1570
Fax: -1892

Turn Around Time
Rush
Normal ✓

Analyses Requested

Lab ID Number	Field ID	Date/Time Sampled	Bottle Type	No.	Preserv.	Matrix	T.P.H. (8015) - CARBON CHAIN	VOC: BETX, MTBE, OXIGENATES (8260)	TOTAL LEAD							Comments
	(A) 12' BOTTOM OF HOLE	9/1/11, 11:45 AM.	ENCORE 25-GRAM	1	ICE CHEST	SOIL	X	X	X							
	2	9/1/11,	ENCORE 25-GRAM	1	"	"	X	X	X							

Relinquished: Elpidio Vargas Date / Time: Received:
Dispatched: Date / Time: Carrier:

I hereby authorize the performance of the above indicated tests.

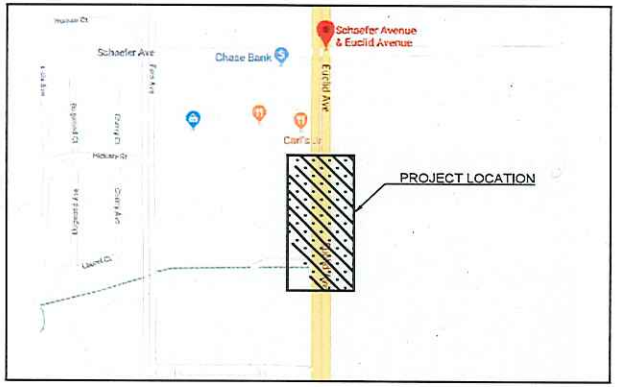
Date / Time: ~~GREG~~ 9/1/11 7:30 Received by lab: GREG T

CTELCCR.DOC

Custody seal(s) in tact upon receipt by lab? YES NO NONE

CONDUIT PACKAGE

RELOCATION - RULE 20
EUCLID & ROSEBUD
CHINO, CA 91762



VICINITY MAP
NTS

FRONTIER COMMUNICATION CONSTRUCTION SPECIFICATIONS

1. Contact Frontier Engineer SCOTT MANNS 909-748-6643 sixty (60) days prior to need of service in order to confirm compliance,order materials,and schedule work forces. NOTE:P[FRONTIER COMMUNICATIONS,INCORPORATED, RESERVES THE RIGHT TO REFUSE ANY CONDUIT, PULL BOXES, MANHOLES, OR UTILITY BOXES THAT DEVIATE FROM PLANS AND SPECIFICATIONS.
2. All conduit risers bends to have a minimum thirty-six (36) inch radius.
3. All horizontal ninety degree bends (90°) shall have a radius of not less than 12.5 feet and all vertical ninety degree bends (90°) shall have a radius of not less than three feet. No more than two ninety degree (90°) horizontal bends shall be placed in any single run unless otherwise specified. Contact Frontier engineer concerning any required deviations
4. All conduit must be prooved using a mandrel no less than a 1/2" smaller than the conduit placed. Wall to wall measurements must be taken with a mule tape or a 3/8" polypropylene pull rope provided in each duct. An accurate wall to wall measurement of conduit placed must be As-built on approved Frontier construction plans. A copy of the As-built conduit work order must be provided to the Frontier inspector assigned to your project, before entrance cable can be designed and ordered. Contact DAVE FIOL, 909-837-8273 at the inspection office for coordination of inspection dates. DEVIATION FROM THIS PLAN WITHOUT CONSENT FROM FRONTIER MAY CAUSE DELAYS IN PROVIDING SERVICE.
5. Place weatherproof cap on end of all conduits terminated outside of a building.
6. Rigid steel or approved plastic conduit (PVC Sch. #40,TYPE-C (4") or DB-120 (2") is specified in underground construction unless otherwise specified. Condulets, Flex, Transite, Plumbers fittings, Water and Gas Pipes must not be used. RIGID STEEL MUST BE USED WHEN CONDUIT CAN BE EXPOSED TO VEHICULAR TRAFFIC.
7. Conduit terminated on a pole must be PVC Sch. 80. If conduit will be exposed to traffic, rigid steel pipe and sweep will be required to 48" above finished grade otherwise turned up 12" above finished grade. Location of riser on pole will be called out on conduit plan by Frontier engineer.
8. Conduit placed in same trench with primary power conduit must be separated by not less than twelve (12) inches of well-packed sand or three inches of concrete, and have not less than thirty-six (36) inch cover to top of pipe when placed behind curb face. All street crossings and ducts placed in the driven portion of the roadway must have no less than forty-eight (48) inch of cover to top of pipe. CONTACT THE FRONTIER INSPECTOR 48 HOURS BEFORE TRENCHING AND UPON COMPLETION OF YOUR SUBSTRUCTURES TO SCHEDULE THE FINAL INSPECTION.
9. Provide manhole(s) x x -# Quickset, Brooks or equivalent with manhole cover marked "Frontier", and conduit terminator furnished from the manufacturer as per Frontier specifications. Provide 3' x 5' x 3' pullbox(es), Name brand Quazite/Strongwell of composite and galvanized steel construction with torsion style parkway cover marked "FRONTIER". Install cable racks and ground rod per manufacturer specifications. DO NOT place pull boxes in vehicular traffic areas. See manufacturers cut sheet provided.
10. FRONTIER RECOMMENDATIONS: Provide a minimum 1-4" conduit home run from each suite location to the main terminal backboard in lieu of running cables over drop ceiling access. Frontier will not install cables not contained in conduit.
11. Provide source of ground at the telephone backboard location: (1) #6 insulated copper wire (solid preferred) to power system ground. - (1) #6 insulated copper wire (solid preferred) to permanent metallic structure such as UFER ground or building steel. - (1) #6 insulated copper wire (solid preferred) to metallic water pipe bonded to previously described permanent metallic structure. Leave adequate wire to extend six feet beyond base of backboard. NOTE: THE FOLLOWING MUST NOT BE USED FOR GROUND SOURCES: ROOF TRUSSES, FLOOR JOINTS, BRACES, SPRINKLER SYSTEM PIPES, METAL ELECTRICAL DISTRIBUTION CONDUIT, AND HORIZONTAL STEEL MEMBERS LESS THAN 3/8" THICK
12. Provide cable racking as described in attachment. Provide pulling irons as described in attachment.
13. Three to six weeks will be needed from the date of final inspection for Frontier to start placing facilities. all paperwork and easements must also be completed, if applicable.

PICK UP POINT:
- 4" PVC STUB-OUT

TRENCH LENGTH:
- JOINT TRENCH = 1136'
-SOLE TRENCH =1010'

MATERIALS:
-1161' OF 4" PVC
-(7) 2'x3' HANDHOLE
-(1) NEW POLE#4914552
-(1)NEW POLE#4912359E

NOTES:
1. ALL MAINLINE IS TO BE 4" PVC AND WILL BE PLACED BY THE DEVELOPER.
2. HAND HOLES AND GROUND RODS TO BE PLACED BY DEVELOPER.
3. MINIMUM DISTANCE OF 3' BETWEEN SCE HAND HOLES AND FRONTIER HAND HOLES IS TO BE MAINTAINED AT ALL TIMES

ALL TRENCH IS PROVIDED BY THE DEVELOPER

UTILITY CONSULTANT:
MORROW MANAGEMENT
N/A
KEVIN MORROW
949-218-7245
KEVIN@MORROWMGMT.COM

DEVELOPER:
CENTURY COMMUNITIES
N/A
SHANE BOUCHARD
909-667-0142
KEVIN@MORROWMGMT.COM

Important Notice
Section 4216.4(a)(1) of the Government Code requires a Dig Alert Identification Number to be issued before a "Permit to Excavate" will be valid. For your Dig Alert I.D. Number call:
Underground Service Alert
CALL BEFORE YOU DIG
UNDERGROUND SERVICE ALERT
Call: 1-800-227-2600

FRONTIER COMMUNICATION CONSTRUCTION SPECIFICATIONS cont'd

14. Work crew to adjust manholes to final grade as shown on the approved grading plan.
15. Actual footages of conduit will be needed to order materials. please include mule tape in all conduits.
16. Frontier inspector shall be present on site when contractor needs to access any existing frontier facility.

ABBREVIATIONS

BLDG	BUILDING	PED	PEDESTAL (UTILITY)
C/L	CENTER LINE	PVC	POLYVINYL CHLORIDE
CONC	CONCRETE	SD	SUB-DUCT
CSW	CONCRETE SIDEWALK	P/L	PROPERTY LINE
DWY	DRIVEWAY	RR	RAILROAD
EOP	EDGE OF PAVEMENT	R/W	RIGHT OF WAY
EOR	EDGE OF ROAD	W-BLDG	WALL TO BUILDING
FOC	FACE OF CURB	W-P	WALL TO POLE
HH	HANDHOLE	W-W	WALL TO WALL
MH	MANHOLE	NTS	NOT TO SCALE

LEGEND

- Mainline/ Backbone Conduit or ABS
- Service Lateral Conduit
- Existing Gas
- Existing Water
- Existing Telephone
- Existing Sewer
- Existing Storm Drain
- Existing Electric
- JT — Joint Trench
- T — Sole Trench
- Existing Manhole
- Existing Handhole
- Existing Pull Box
- Existing Pole
- 4'x4' Bore Pit
- 4'x6' Bore Pit
- Proposed Manhole
- Proposed Handhole
- Proposed Pullbox
- Proposed Pole
- 3/8"–8' Copper Driven GRD Rod
- ① Numbers = Mainline PVC With Pull Rope
- Ⓐ Letters = Service Lateral PVC With Pull Rope
- ▲ Material Placed by Developer, Reimbursed by Frontier per attached schedule
- ▲▲ Non–Reimbursable Material Provided by Developer.

REVISIONS

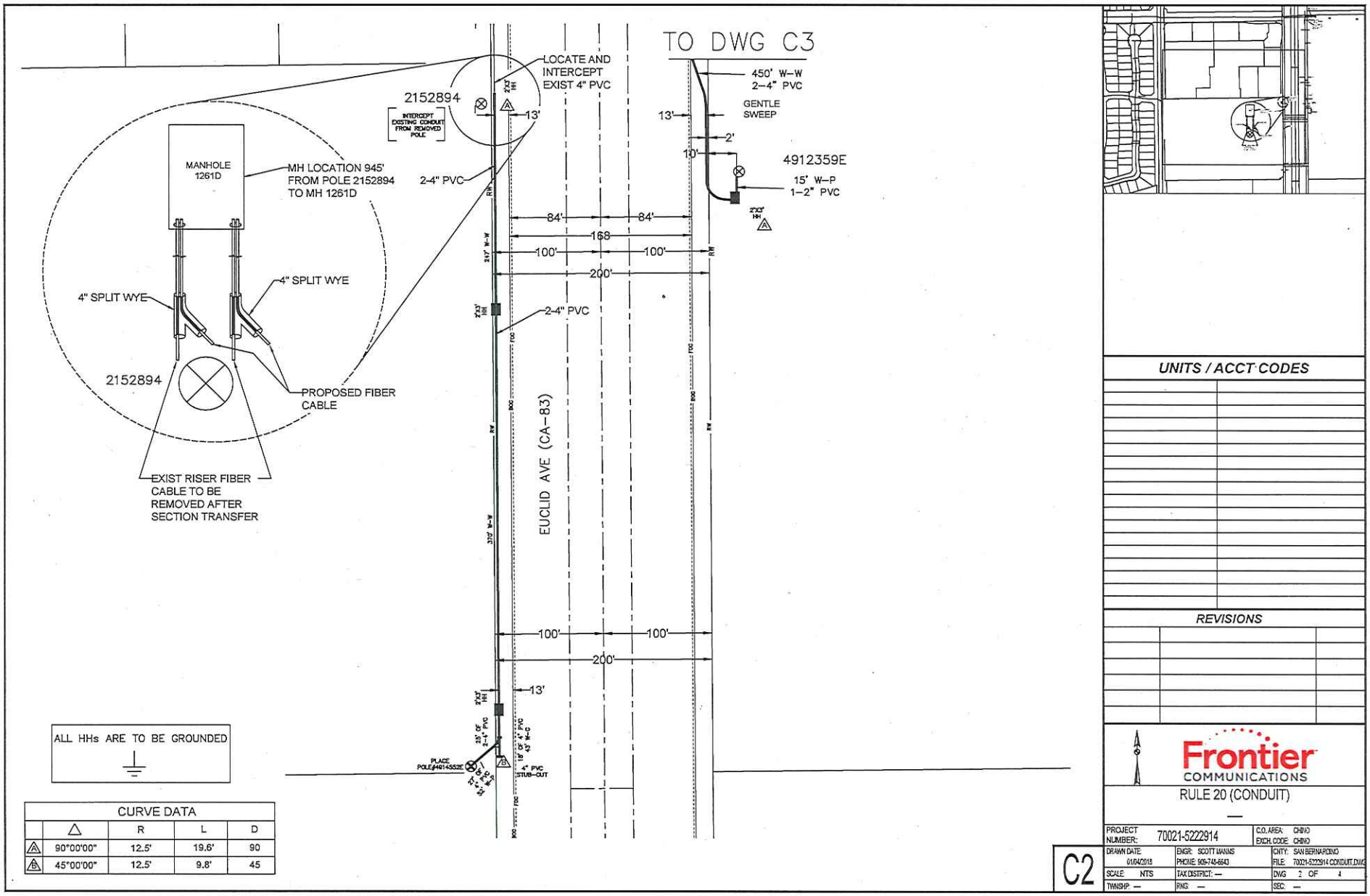
3/19/19	ADD CONDUIT	DP

Frontier COMMUNICATIONS

TRACT CONDUIT

PROJECT NUMBER:	70021-5222914	C.O. AREA: CHNOCADF EXCH. CODE: CHINO	
DRAWN DATE: 1/04/18	ENGR: SCOTT MANNS PHONE: 909-748-6643	CNTY: SAN BERNARDINO FILE: 70021-5222914 CONDUIT.DWG	
SCALE: #####	TAX DISTRICT: —	DWG 1 OF 4	
TWNSHP: —	PNG: —	SEC:	

C1



CURVE DATA				
	△	R	L	D
A	90°00'00"	12.5'	19.6'	90
B	45°00'00"	12.5'	9.8'	45

UNITS / ACCT CODES

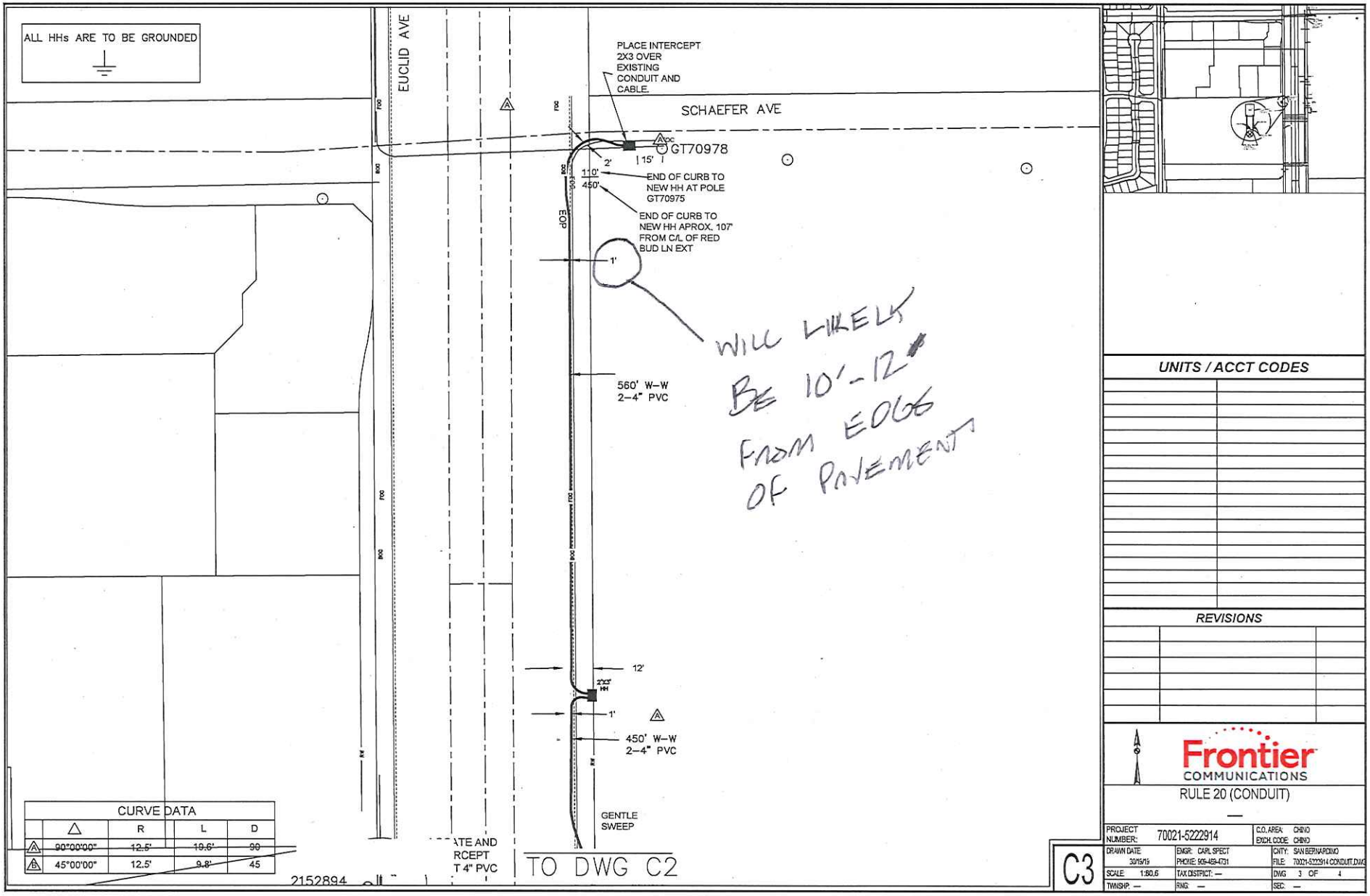
REVISIONS

Frontier COMMUNICATIONS

RULE 20 (CONDUIT)

PROJECT NUMBER:	70021-5222914	C.O. AREA: CHINO	
		EXCH. CODE: CHINO	
DRAWN DATE: 01/04/2018	ENGR: SCOTT MANNS	CNTY: SAN BERNARDINO	
	PHONE: 909-748-6643	FILE: 70021-5222914-CONDUIT.DWG	
SCALE: NTS	TAX DISTRICT: —	DWG 2 OF 4	
TWNSHP: —	RNG: —	SEC: —	

C2



UNITS / ACCT CODES

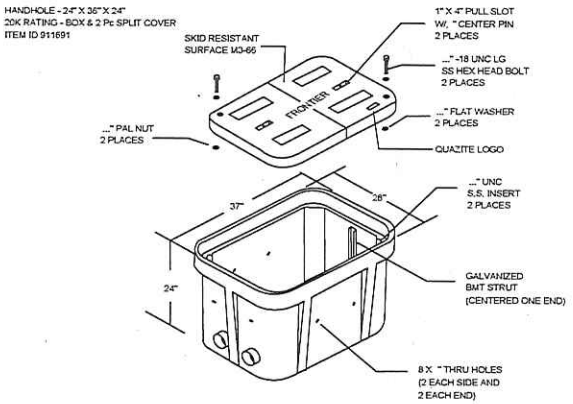
REVISIONS

Frontier COMMUNICATIONS

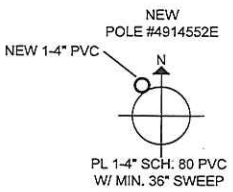
RULE 20 (CONDUIT)

PROJECT NUMBER: 70021-5222914		C.O. AREA: CHINO	
		EXCH. CODE: CHINO	
DRAWN DATE: 30/5/19	ENGR: CARL SPECT	CNTY: SAN BERNARDINO	
	PHONE: 909-469-6731	FILE: 70021-5222914 CONDUIT.DWG	
SCALE: 1:80.6	TAX DISTRICT: —	DWG 3 OF 4	
TWNSHP: —	RNG: —	SEC: —	

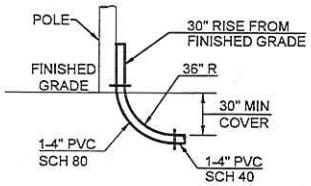
C3



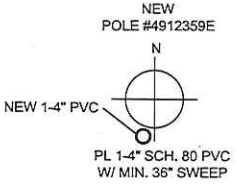
PLAN VIEW



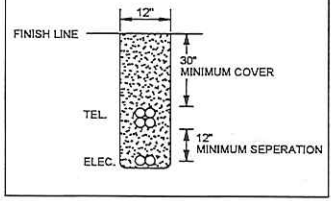
ELEVATION



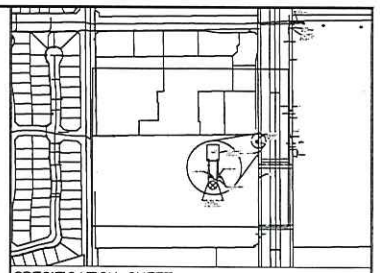
PLAN VIEW



TYPICAL JOINT TRENCH DETAIL







SPECIFICATION SHEET.

UNITS / ACCT CODES

REVISIONS

Frontier COMMUNICATIONS

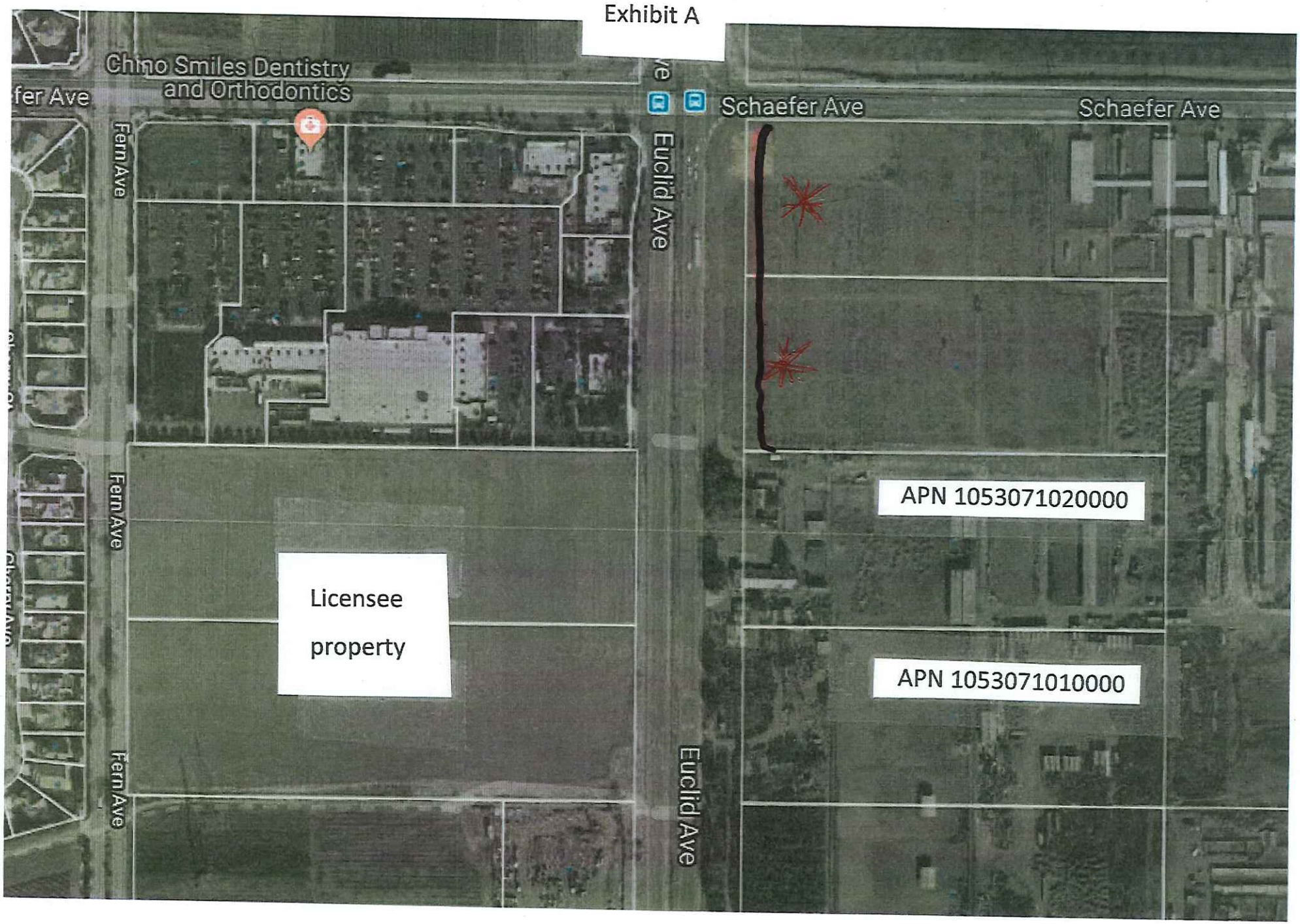
RULE 20 (CONDUIT)

—

PROJECT NUMBER:	70021-5222914	C.O. AREA:	3
		EXCH. CODE:	CHNO
DRAWN DATE:	ENGR: SCOTT MANNS	CNTY:	SAN BERNARDINO
01/04/2018	PHONE: 909-748-6643	FILE:	70021-5222914 CONDUIT.DWG
SCALE: ###	TAX DISTRICT: —	DWG	4 OF 4
TWNSHP: —	RNG: —	SEC:	—

C4

Exhibit A


Chino Smiles Dentistry and Orthodontics
fer Ave
Fern Ave
Fern Ave
Fern Ave
Euclid Ave
Euclid Ave
Schaefer Ave
Schaefer Ave
Licensee property
APN 1053071020000
APN 1053071010000

SAN BERNARDINO COUNTY
FIRE DEPARTMENT

COUNTY OF SAN BERNARDINO

OFFICE OF THE FIRE MARSHAL
HAZARDOUS MATERIALS DIVISION
620 South "E" Street • San Bernardino, CA 92415-0153
(909) 386-8401 • Fax (909) 386-8460

MARK A. HARTWIG
Fire Chief

May 17, 2011

ARTEVEL OF CALIFORNIA LLC
C/O ASTOR & PHILLIPS
800 WILSHIRE BOULEVARD, #1500
LOS ANGELES, CA 90017-2619

FA0000657
APN: 1053-081-03

SUBJECT: ABANDONED UNDERGROUND STORAGE TANK(S) (USTs)
SUMMERHILL DAIRY, 7255 SCHAEFER AVENUE.,
CHINO, CA 91710

A Department review indicates that you own property with UST(s) that do not meet the standards required by the California Health and Safety Code Sections 25284, and 25298. In order to be in compliance with applicable regulations, the UST(s) at this location must be removed, replaced or upgraded. Please submit a letter to this office no later than **June 20, 2011** stating your intent and method of compliance.

If you do not meet this deadline, this case will be referred for enforcement action including a Notice of Violation, and a Notice of Lien on the title of the property.

If you have any questions, please call me at (909) 386-8419.

Jackson Crutsinger

JACKSON CRUTSINGER, R.E.H.S.,R.H.S.P.
HAZARDOUS MATERIALS SPECIALIST III
HAZARDOUS MATERIALS DIVISION
UST/SITE REMEDIATION/LOCAL OVERSIGHT PROGRAM

GREGORY C. DEVEREAUX
Chief Executive Officer

Board of Supervisors
BRAD MITZELFELT.....First District
JANICE RUTHERFORD.....Second District
NEIL DERRY .....Third District
GARY C. OVITT.....Fourth District
JOSIE GONZALES.....Fifth District

Kaspar Wittlinger

From: Jason Lee <jasonl@distinguishedhomes.com>
Sent: Wednesday, July 14, 2021 8:30 PM
To: Kaspar Wittlinger
Cc: Jason Lee
Subject: FW: ARTEVEL - PHASE 1
Attachments: 2021-07-12 completed Owner Questionnaire.pdf; Arteval(Ontario) UST rmvl rpt .pdf; Ltr from SB County Fire Dept.pdf; San Bernardino County Fire Dept Haz Mat Receipt 8-19-11.pdf; Monie Bros Invoice 9-12-11.pdf; 2019 Improvement plans.pdf; Frontier prelim plans.pdf; SCE plans & photos.pdf

Warning! This message was sent from outside your organization and we are unable to verify the sender. Allow sender | Block sender

Kaspar,

Please see the information attached and below.

Jason

From: Gary Phillips [mailto:GPhillips@PhillipsLawPartners.com]
Sent: Wednesday, July 14, 2021 4:16 PM
To: Jason Lee; Richard Cisakowski; Karen Higo
Cc: Kreulen, Ph.D., RN, Grace (gkreulen@gmail.com); Marv te Velde; marietevelde@gmail.com; Pietersma & Company - Pietersma & Company (rcpietersma@aol.com); Kraig C. Kilger
Subject: RE: ARTEVEL - PHASE 1

At the request of Jason Lee, we provide the following information:

1. Completed Owner Interview/EIR questionnaire;
2. Documents referenced in the Questionnaire including the following:
    a. Underground Tank Closure Report dated September 7, 2011 and related documents, including inspection card, application for removal of underground storage tank, fire dept. permit, Rule 1166 soil monitoring records, manifests, hazardous waste tank closure certification, certificate of destruction, plot plan, lab results, and chain of custody record;
    b. Letter from San Bernardino County Fire Department;
    c. San Bernardino County Fire Department Receipt;
    d. Invoice from Monie Bros.;
    e. 2019 AT&T Wireless facilities plans;
    f. 2019 Frontier Communications plans; and
    g. 2017 Southern California Edison plans.

The enclosed information and documents are provided in compliance with and subject to Section 5.4 of the PSA and are part of the “Property Documents” being provided by seller. We apologize for any delay in providing the completed questionnaire and enclosed documents but it took a number of days searching through our archival records to dig up this information regarding a UST on the site, which was removed in in 2011.

Sincerely,

Gary R. Phillips

PHILLIPS LAW PARTNERS, LLP
707 Wilshire Blvd., Ste. 3800
Los Angeles, CA 90017-3541
Office: (213) 680-9212
Fax: (213) 891-2910

From: Jason Lee <jasonl@distinguishedhomes.com>
Sent: Monday, July 12, 2021 9:59 AM
To: Gary Phillips <GPhillips@PhillipsLawPartners.com>
Cc: Kreulen, Ph.D., RN, Grace (gkreulen@gmail.com) <gkreulen@gmail.com>; Marv te Velde <marvintevelde@gmail.com>; marietevelde@gmail.com; Jason Lee <jasonl@distinguishedhomes.com>
Subject: RE: ARTEVEL - PHASE 1

Good Morning Gary,

I'm following up on the Phase 1 environmental questionnaire that I had sent to you previously. I've attached another copy. Could you give me an ETA for returning this to me?

My consultant finished his onsite walkthrough, is wrapping up the final report and needs this information to complete it.

Thank you,

Jason

From: Gary Phillips [mailto:GPhillips@PhillipsLawPartners.com]
Sent: Friday, June 25, 2021 10:39 AM
To: Jason Lee
Cc: Kreulen, Ph.D., RN, Grace (gkreulen@gmail.com); Marv te Velde; marietevelde@gmail.com
Subject: RE: ARTEVEL - PHASE 1

Jason,

Thanks for your email. I will get back to you soon with any available information.

Sincerely,

Gary R. Phillips

PHILLIPS LAW PARTNERS, LLP
707 Wilshire Blvd., Ste. 3800
Los Angeles, CA 90017-3541
Office: (213) 680-9212
Fax: (213) 891-2910

From: Jason Lee <jasonl@distinguishedhomes.com>
Sent: Friday, June 25, 2021 9:52 AM
To: Gary Phillips <GPhillips@PhillipsLawPartners.com>
Cc: Jason Lee <jasonl@distinguishedhomes.com>
Subject: FW: ARTEVEL - PHASE 1

Good Morning Gary,

My name is Jason Lee and I work with RC. I'm currently in process with the DD and my environmental consultant is requesting the owner completes the attached environmental questionnaire. If you could return it to me at your earliest convenience, I would appreciate it.

Also, we are in process of setting up our onsite phase 1 site walk, as well as the ALTA and boundary survey. I don't have exact dates yet, but will let you know when I get confirmation. Besides sending an email to you, is there a contact person onsite that you would like us to notify (so the tenants are aware when our consultants show up!).

Let me know.

Thank you,

Jason
(714) 412-9263 (cell)

From: Kaspar Wittlinger [mailto:KWittlinger@ConverseConsultants.com]
Sent: Thursday, June 24, 2021 3:38 PM
To: Jason Lee
Subject: ARTEVEL - PHASE 1

Good afternoon Jason,

Thank you for this project. Would you please forward the attached questionnaire to the current owner(s) or provide me with their contact info?
The approximate completion date for the assessment will be July 21. Is it possible to get access to the Property on July 2 (next Friday)?

Best regards,
Kaspar

Kaspar Wittlinger
Sr. Staff Environmental Scientist
717 South Myrtle Avenue
Monrovia, CA 91016

Office: 626-930-1224
Cell: 714-932-2154
www.converseconsulants.com

Since 1946… Yesterday's Experience, Today's Quality, Tomorrow's Vision

Converse Consultants
Geotechnical Engineering & Consulting
Environmental & Groundwater Science
Materials Testing & Inspection Services

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Phillips Law Partners LLP

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Phillips Law Partners LLP

INVOICE

MOINE BROS.
CONTRACTORS LIC. NO. 343468

521 EAST "D" STREET
WILMINGTON, CA 90744
PHONE (310) 830-1570

#11-17

TO Arteval of California, LLC
800 Wilshire Blvd., 15th Floor
Los Angeles, CA 90017-2619
Attn.: Tim Lan

DATE September 12, 2011

JOB NAME

JOB LOCATION 7255 Schaefer Ave.
Ontario, CA 91761

TERMS

DESCRIPTION	PRICE	AMOUNT
Underground tank removal per proposal dated 8/8/2011.		$11,700.00
Fees paid:		
San Bernardino County Fire Dept. (8/19/11)	$1,064.00	
City of Ontario Fire Dept.(8/22/11)	120.00	1,184.00
Disposal of excess liquid contained in the tank – 200 gallons @ $2.00/g.		400.00
Total:		**$13,284.00**

1031

ARTEVEL OF CALIFORNIA, LLC
800 WILSHIRE BLVD STE 1500
LOS ANGELES, CA 90017

DATE 9-15-11

16-66/1220
21

PAY TO THE ORDER OF Moine Bros. $ 13,284.00

Thirteen thousand two hundred eighty four even DOLLARS

Security Features Details on Back.

Bank of America
LA Civic Center
100 S Broadway
Los Angeles CA
213.312.9000

Inv 11-17

FOR 7255 Schaefer Ave., Ontario CA 91761

MP

⑈001031⑈ ⑆122000661⑆ 00210⑈70544⑈

NOTE: PAY FROM THIS INVOICE. NO STATEMENT WILL BE SENT

A SERVICE CHARGE OF 1½% PER MONTH (18% ANNUAL PERCENTAGE RATE)
WILL BE CHARGED ON ALL ACCOUNTS 30 DAYS PAST DUE.

Thank You

SAN BERNARDINO COUNTY FIRE DEPARTMENT
SPECIAL DISTRICTS

RECEIPT 68856

DIVISION Haz Mat DATE 8/19/11

RECEIVED FROM Moine Bros $ 1064.00

One thousand Sixty four 00/100 DOLLARS

ESTABLISHMENT / ACCOUNTS / CONTRACT # FA0000457

DESCRIPTION	FUND-DEPT-ORG-REVENUE	GRC#	AMOUNT
UST Removal	FHZ 107 155 9080	4130	496
	Summerhill Dairy 7255 Schaefer Ontario, CA		
UST Reg Per Tank		4104	568.00
	Log# 081911-02		
GRAND TOTAL			$ 1064

PAYMENT TYPE Check , CHECK # 4064

(SIGNATURE) _____ TITLE Sec I BOOK # 377

01-20802-670 Rev. 4/01

Exhibit B

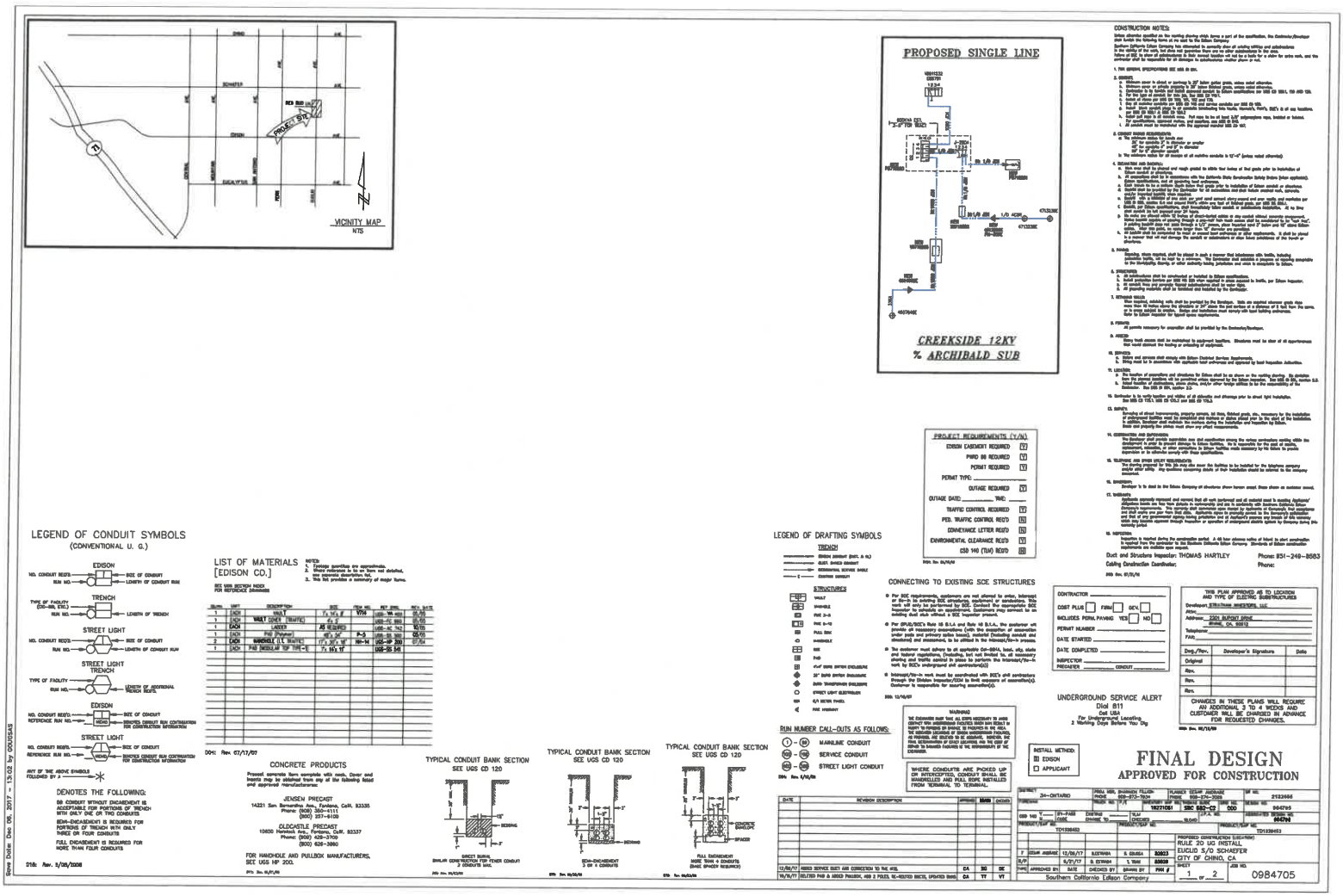
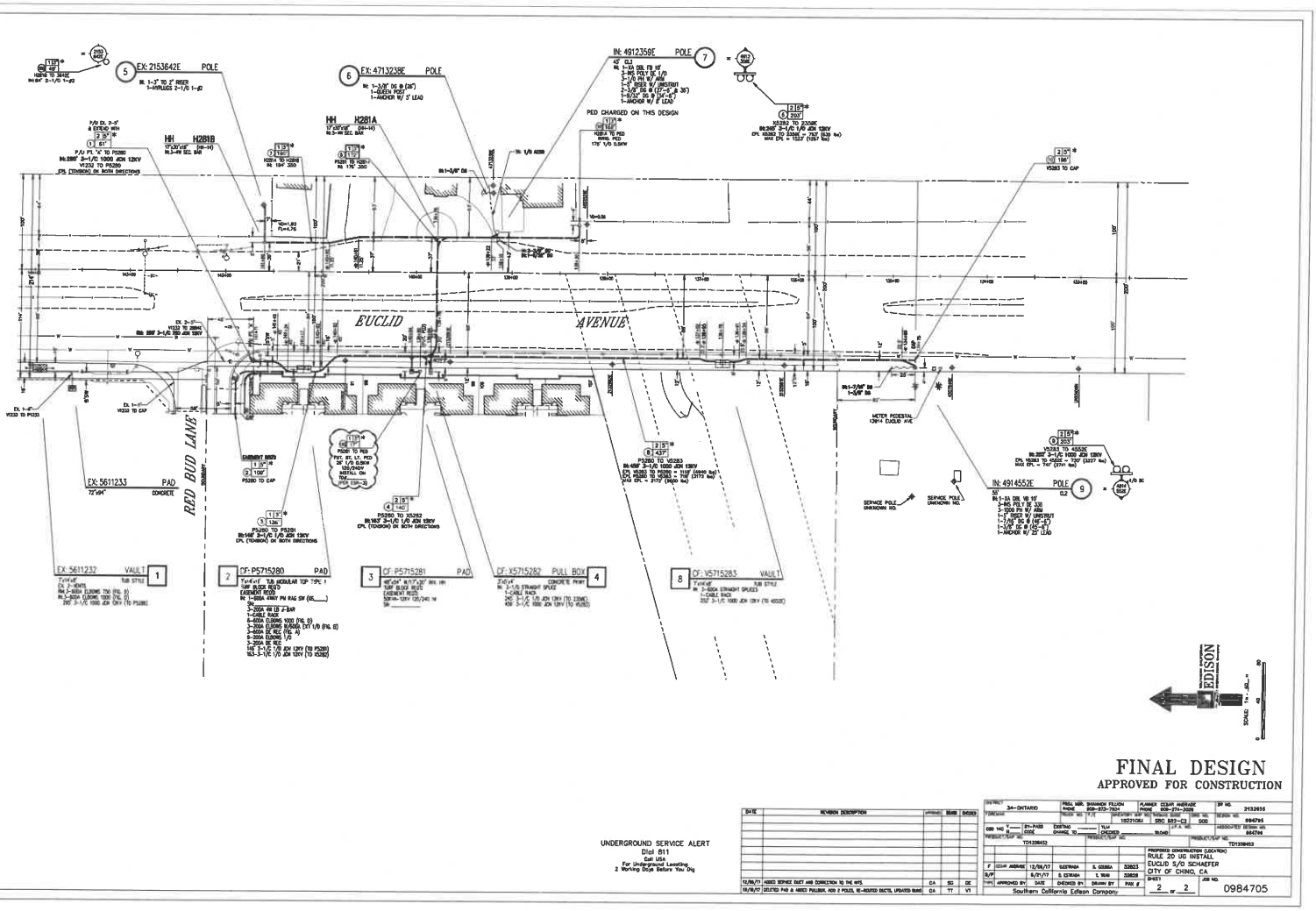

VICINITY MAP
NTS
PROPOSED SINGLE LINE
CREEKSIDE 12KV
% ARCHIBALD SUB
CONSTRUCTION NOTES:
LEGEND OF CONDUIT SYMBOLS
(CONVENTIONAL U. G.)
EDISON
TRENCH
STREET LIGHT
STREET LIGHT TRENCH
STREET LIGHT
DENOTES THE FOLLOWING:
LIST OF MATERIALS
[EDISON CO.]
CONCRETE PRODUCTS
JENSEN PRECAST
OLDCASTLE PRECAST
TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120
TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120
TYPICAL CONDUIT BANK SECTION
SEE UGS CD 120
LEGEND OF DRAFTING SYMBOLS
TRENCH
STRUCTURES
PROJECT REQUIREMENTS (Y/N)
CONNECTING TO EXISTING SCE STRUCTURES
RUN NUMBER CALL-OUTS AS FOLLOWS:
MAINLINE CONDUIT
SERVICE CONDUIT
STREET LIGHT CONDUIT
WARNING
INSTALL METHOD:
EDISON
APPLICANT
UNDERGROUND SERVICE ALERT
Dial 811
Call USA
For Underground Locating
2 Working Days Before You Dig
FINAL DESIGN
APPROVED FOR CONSTRUCTION
RULE 20 UG INSTALL
EUCLID S/O SCHAEFER
CITY OF CHINO, CA
0984705

Exhibit B



FINAL DESIGN
APPROVED FOR CONSTRUCTION

UNDERGROUND SERVICE ALERT
Dial 811
Call USA
For Underground Locating
2 Working Days Before You Dig

DATE	REVISION DESCRIPTION	APPROVED	BEARS	DESIGN
12/05/17	ADDED SERVICE DUCT AND CONNECTION TO THE MTR.	DA	SG	DE
12/05/17	DELETED PAD & ADDED PULLBOX, ADD 2 POLES, RE-ADJUSTED ELECTRIC, UPDATED BUBS	DA	YT	VT

DESIGN ENGINEER	34- ONTARIO	PROJ. MGR. PHONE	SHANNON FELION 909-372-7524	PLANNER PHONE	CESAR ANDRADE 909-274-3505
TURNKEY		PROJECT MGR. PHONE		DATE SENT TO CUST.	
CUSTOMER				DATE RETD.	
ORD. NO.	BY-PASS	EXISTING	TEAM		
W.O. NO.		CHANGE TO	CHECKED		
PRODUCT/SUP. MGR.					
PRODUCT/SUP. NO.					

F	DESIGN ENGINEER	12/05/17	ELECTRICIAN	S. GUZMAN	33923
B/P		5/21/17	S. ESTRADA	L. TRAN	33928
DATE	APPROVED BY:	DATE	CHECKED BY:	DRAWN BY:	PAGE #

SP NO. 2132656
REVISION NO. 894795
SRC 882-C2 DOD
ASSOCIATED REVISION NO. 884704
PRODUCT/SUP NO. TD1328453

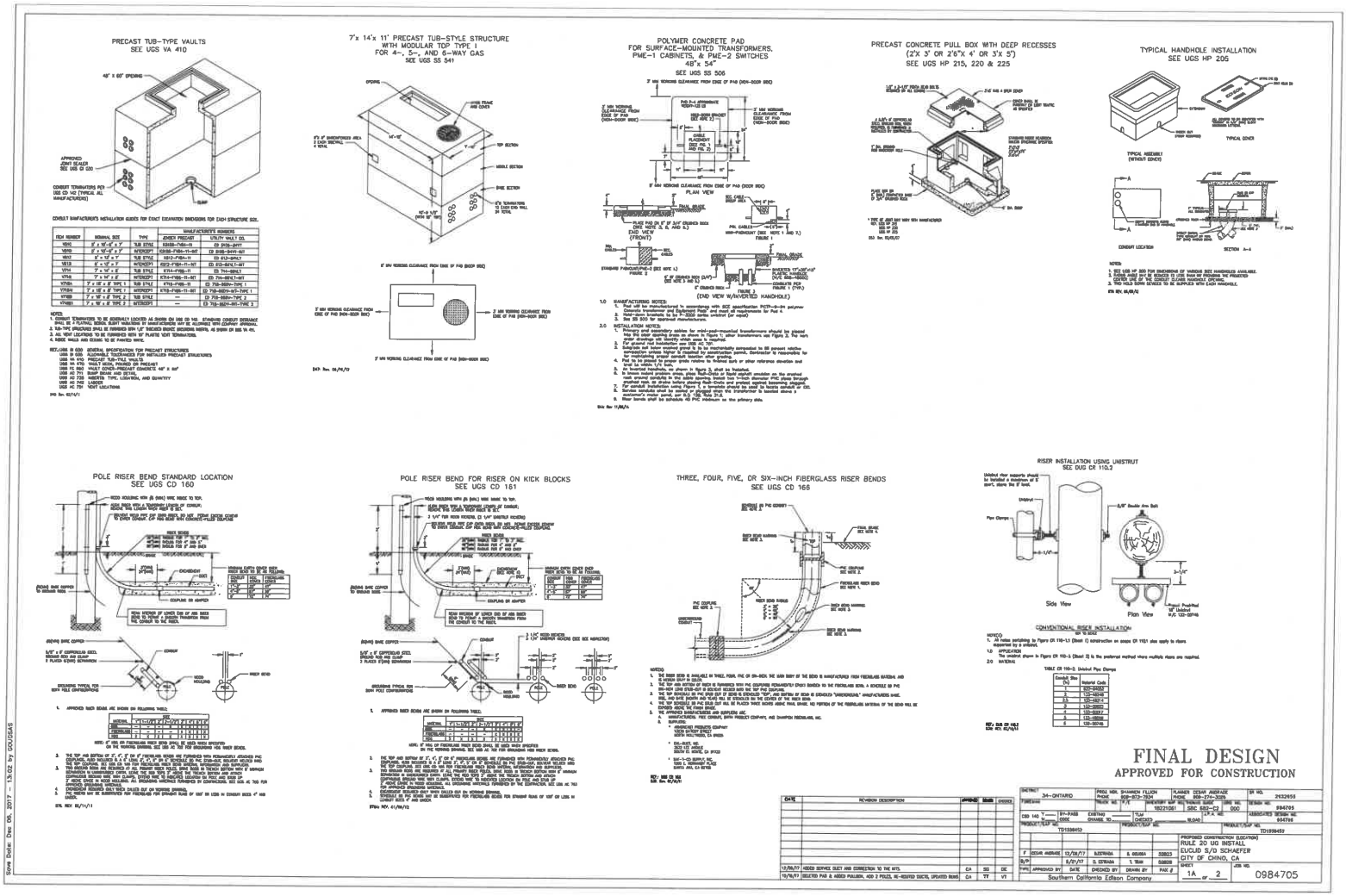
PROPOSED CONSTRUCTION (LOCATION)
RULE 20 UG INSTALL
EUCLID S/O SCHAEFER
CITY OF CHINO, CA

Southern California Edison Company

SHEET 2 OF 2
JOB NO. 0984705

Save Date: Dec. 05, 2017 - 13:02 by DOUGSAS

Exhibit B



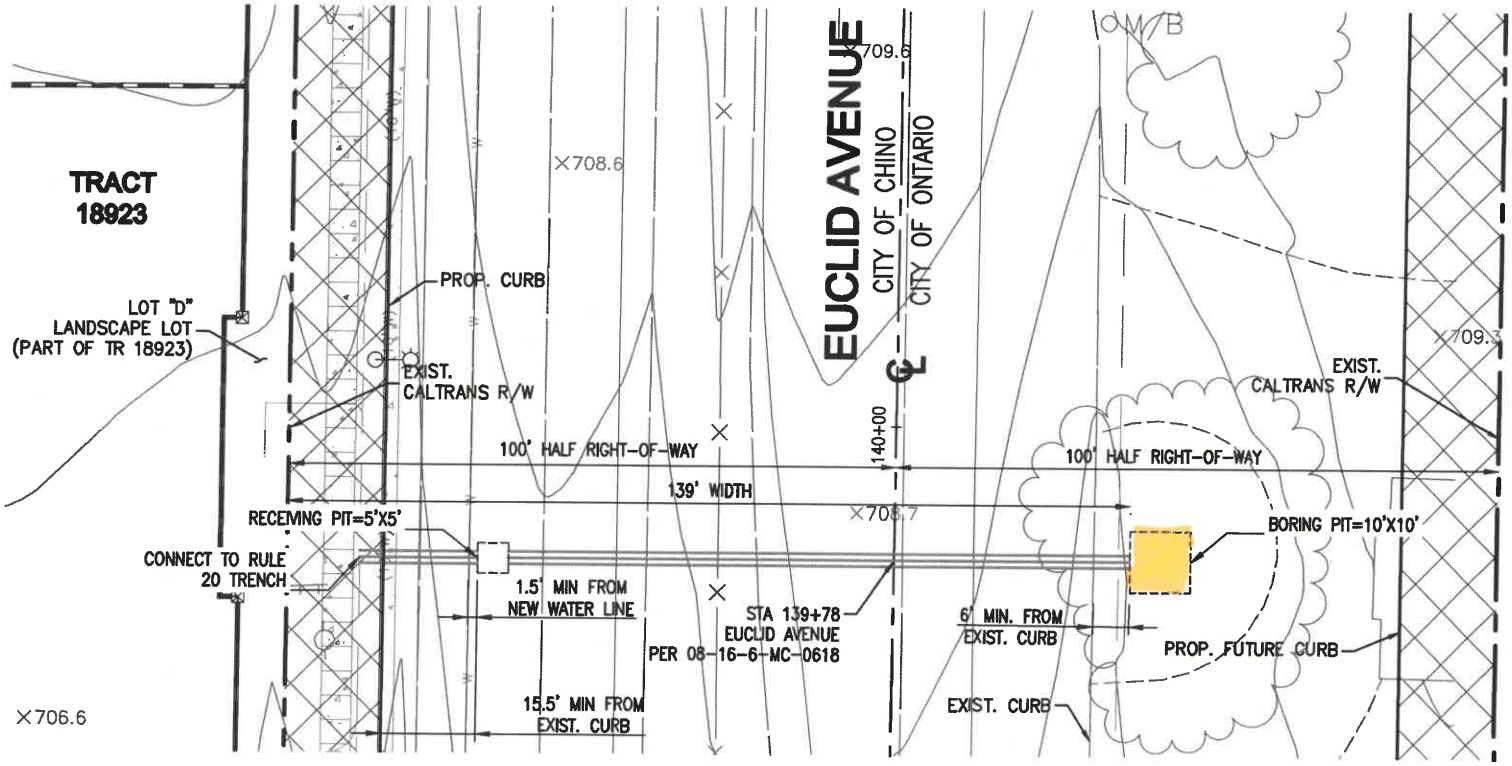
FINAL DESIGN
APPROVED FOR CONSTRUCTION

DATE	REVISION DESCRIPTION	APPROVED	BY	CHECKED
12/06/17	ADDED SERVICE SLEET AND CONNECTION TO THE MTS.	DA	SG	DE
10/26/17	DELETED PAD & ADDED PULLBOX, ADD 2 POLES, RE-ROUTED DUCTS, UPDATED NOTES	DA	TT	VT

DISTRICT: 34-ONTARIO	PROJ. MGR. SHANNEN FELLOW PHONE 909-573-7324	PLANNER: CESAR ANDRADE PHONE 909-274-3205		DR NO. 2132655
TYPE/BASE	TRANS. NO.	W.O. 18221581	SRC 682-C2	000
CSD 140 % BY-PASS EXISTING ORANGE, 20	*CAP CHECKED	L.P.S. NO.	ASSOCIATED DESIGN NO. 894705	
PRODUCT/CAP NO. TD1339452		PRODUCT/CAP NO.		PRODUCT/CAP NO. TD1339452
				PROPOSED CONSTRUCTION (USE/WORK) RULE 20 UG INSTALL
F OSCAR ANDRADE 12/08/17	ELEVADA	S. ARABIA	30823	EUCLID S/D SCHAEFER
B/P 5/21/17	G. ESTRADA	L. TRAN	30828	CITY OF CHINO, CA
APPROVED BY: DATE	CHECKED BY:	DRAWN BY:	PAGE #	SHEET 1A OF 2
Southern California Edison Company				JOB NO. 0984705

Save Date: Dec 06, 2017 - 13:02 by DOUGSAS

Exhibit C


TRACT
18923
LOT "D"
LANDSCAPE LOT
(PART OF TR 18923)
PROP. CURB
EXIST.
CALTRANS R/W
×708.6
EUCLID AVENUE
CITY OF CHINO
CITY OF ONTARIO
℄
×709.6
140+00
100' HALF RIGHT-OF-WAY
139' WIDTH
×708.7
100' HALF RIGHT-OF-WAY
EXIST.
CALTRANS R/W
×709.7
RECEIVING PIT=5'X5'
CONNECT TO RULE
20 TRENCH
1.5' MIN FROM
NEW WATER LINE
STA 139+78
EUCLID AVENUE
PER 08-16-6-MC-0618
15.5' MIN FROM
EXIST. CURB
6' MIN. FROM
EXIST. CURB
BORING PIT=10'X10'
PROP. FUTURE CURB
EXIST. CURB
×706.6


Looking East on Euclid
Exhibit C
Legend
Bore Under Driveway
Boring Location
Location of Boring Machine
Google Earth
© 2018 Google
© 2018 INEGI
8.36 ft


Looking East on Euclid - Connection to pole
Exhibit D
Legend
Bore Under Driveway
Trench in dirt
Google Earth
© 2018 Google
10 ft


Looking East on Euclid - Connection to pole
Exhibit D
Legend
Bore Under Driveway
Trench in dirt
Google Earth
© 2018 Google
© 2018 INEGI
6.61 ft


Looking East on Euclid
Exhibit E
Legend
Bore Under Driveway
Boring Location
New Pole Location
83
Google Earth
© 2018 Google
N
90 ft

APPENDIX F2

PHASE II ENVIRONMENTAL SITE ASSESSMENT

CONVERSE CONSULTANTS

Limited Phase II Environmental Site Assessment Report

Approximate 60 Acre Site
Southeast Corner of Schaefer Avenue and Euclid Avenue
Ontario, California

Converse Project No. 21-16-121-02
October 8, 2021

Prepared For:

RCCD, Inc.
8101 East Kaiser Boulevard
Suite 140
Anaheim Hills, California 92808

Prepared By:

Converse Consultants
8333 Foothill Boulevard, Suite 128
Rancho Cucamonga, California 91730

Converse Consultants
Geotechnical Engineering, Environmental & Groundwater Science, Inspection & Testing Services

October 8, 2021

Mr. Jason Lee
RCCD Inc.
8101 East Kaiser Boulevard
Anaheim Hills, California 92808

Subject: **LIMITED PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT**
Approximate 60 Acre Site
Southeast Corner of Schaefer Avenue and Euclid Avenue
Ontario, California
Converse Project No. 21-16-121-02

Mr. Lee:

Converse Consultants (Converse) is pleased to submit the attached report that summarizes the activities and the results of a *Limited Phase II Environmental Site Assessment (Phase II ESA)* that was conducted at the referenced property.

We appreciate the opportunity to be of service. Should you have any questions or comments regarding this report, please contact Michael Van Fleet at (909) 796-0544 or Laura Tanaka at (626) 930-1261.

CONVERSE CONSULTANTS

PROFESSIONAL GEOLOGIST
MICHAEL A. VAN FLEET
No. 7869
STATE OF CALIFORNIA

Michael Van Fleet, PG
Senior Geologist

Laura Tanaka
Principal Environmental Scientist

Dist.: 1/Addressee via Electronic Mail

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FIGURES

Figure 1 – Site Location Map
Figure 2 – Sample Location Map

TABLES

Table 1 – Summary of Analytical Results – Soil
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APPENDICES

Appendix A – Application for Authorization to Use
Appendix B – Analytical Reports

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1.0 Introduction

This *Limited Phase II Environmental Site Assessment (ESA)* report has been prepared by Converse Consultants (Converse) for RCCD, Inc. The sampling was conducted at the approximate 60-acre site on the southeast corner of Schaefer Avenue and Euclid Avenue in the City of Ontario, San Bernardino County, California (Site). Converse was retained by RCCD Inc. (*User*) to conduct the *Limited Phase II ESA* at the Site (see Figure 1, Site Location Map). The scope of this assessment was completed in general accordance with the revised proposal dated August 30, 2021.

Converse generally followed the standard practices of the American Society for Testing Materials (ASTM) Designation: E1903-19 *Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process* (ASTM, E 1903-19). The purpose of conducting the assessment in accordance with ASTM E1903-19 is to acquire and evaluate information sufficient to achieve the objective(s) set forth by the *User* and Converse.

Converse completed a Phase I ESA dated July 29, 2021, for the Site. The assessment identified no evidence of recognized environmental conditions (RECs) in connection with the Site except for the following:

- Agricultural use from as early as 1938 is a REC due to potential residual contamination from agricultural chemical use.
- On-site dairy operations and associated chemicals, manure, and equipment, from as early as 1946 are RECs.

The objectives of this assessment were to:

- Evaluate RECs in connection with the Site that were identified during the prior Converse Phase I ESA.
- Identify if potential target analytes are present at concentrations greater than threshold criteria.

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2.0 Background

2.1 Site Description and Features

Details in the following sections regarding the Site and surrounding areas were obtained from the July 29, 2021 Converse Phase I ESA.

2.1.1 Current Uses of the Site

The Site is owned by George R. Phillips of The John Te Velde Irrevocable Trust; Zwaantina Te Velde and George R. Phillips, Co Trustees, under Survivor's Trust, under The Harm and Zwaantina Te Velde Trust; and Artevel of California, LLC.

It is operated as two (2) dairy farms and a nursery (tenants).

2.1.2 Location and Legal Description

The Site is located at the southeast corner of Euclid Avenue and Schaefer Avenue, in the City of Ontario, California. The Site is located approximately 1.8-miles south of the California State Routes 60/83 interchange.

The Site consists of 11 parcels and is approximately 60-acres in size. The San Bernardino County Assessor's Parcel Numbers (APNs) and associated street addresses for the Site are:

Business Park APNs:
- APN 1053-071-01: No address
- APN 1053-071-02: 13813 and 13835 Euclid Avenue
- APN 1053-071-03: No address
- APN 1053-071-04: No address
- APN 1053-081-01: 7235, 7255, 7275, and 7277 Schaefer Avenue
- APN 1053-081-03: 7271 Schaefer Avenue
- APN 1053-081-04: No address
- APN 1053-211-01: No address
- APN 1053-211-02: No address

Mixed-Use APN:
- APN 1053-281-08: No address

The legal description for the Site is as follows: LOTS 1, 2, 3, 16, 17, 18, 20, 21 AND 35 OF SECTION 18, TOWNSHIP 2 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO

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MAP OF SUBDIVISION OF PART OF RANCHO SANTA ANA DEL CHINO, AS PER PLAT RECORDED IN BOOK 6, PAGE 15, OF MAPS, RECORDS OF SAID COUNTY.

EXCEPTING THEREFROM ANY PORTION LYING WITHIN EUCLID AVENUE 200 FEET WIDE, AS DESCRIBED IN SUPERIOR COURT CASE NO. 139648 AND CASE NO. 150425, A CERTIFIED COPY OF WHICH WAS RECORDED SEPTEMBER 13, 1972 AS INSTRUMENT NO. 614 IN BOOK 8019, PAGE 930 OF OFFICIAL RECORDS OF THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA.

2.1.3 Site and Vicinity General Characteristics

The Site is an irregular-shaped lot of agricultural land consisting of approximately 60 acres. The Site is generally level.

A goat cheese dairy operation occupies the northeastern portion of the Site along Schaefer Avenue (Drake Farm at 7235, 7255, and 7277 Schaefer Avenue). Pertinent structures include a milking barn, fenced areas with shade canopies for goats (animals present), an administrative/maintenance building, and storage barns. The eastern portion of the Drakes' tenant space, near the northeastern Site corner, also includes residential structures such as trailers and a single-family home. A vacant former dairy building adjoins the residential structures.

Approximately three (3) acres of the western portion of the Site along Euclid Avenue are occupied by Coco's Nursery (no address; western portion of APNs 1053-071-01 and 1053-071-02). The nursery consists of irrigated potted plants, stockpiles of potting soil, and storage sheds.

The remaining northern, northwestern, southern, eastern, and western portions of the Site are occupied by the Art Venegas Dairy (13835 Euclid Avenue; tenant). This tenant space encompasses plowed farmland near the intersection of Euclid and Schaefer Avenues on the northwest, and on the south towards Edison Avenue. A catch basin for runoff collection is located on the southwestern corner of the Site. A system of catch basins is also located on the eastern portion of the Site, south of Drakes' farm. The central portion of the Art Venegas Dairy includes fenced areas with shade canopies for cows (animals present), a maintenance shop area, and storage areas for farm/dairy equipment/vehicles. The Venegas' milking barn and associated residential and storage structures are located on the central-west portion of the Site along Euclid Avenue.

All structures within the Venegas' complex are associated with the address of 13835 Euclid Avenue, except for a maintenance shed for

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Southern California Edison (SCE) pole-mounted transformer equipment (13813 Euclid Avenue), which is adjacent to the milking barn.

The surrounding area of the Site consists of residential, agricultural, and commercial uses. Commercial uses include a truck driving school, a church, retail stores, and restaurants.

2.2 Physical Setting

2.2.1 Topography

The Site is located approximately 700 to 720 feet above mean sea level with surface topography sloping towards the south (United States Geological Survey [USGS] Topographic Map, Ontario, California, 2012).

2.2.2 Geology

The Site is underlain by alluvium, lake, playa, and terrace deposits, unconsolidated and semi-consolidated (Division of Mines and Geology, Geologic Map of California, 2015).

2.2.3 Hydrogeology

According to the Chino Basin Watermaster Depth to Groundwater Contour Map, first groundwater at the Site was located between 125 to 150 feet below ground surface (bgs) in July 2016. According to the pertinent Groundwater Elevation Contour Map, the groundwater elevation was approximately 570 feet, and the direction of regional groundwater flow was to the south.

2.3 Site History and Land Use

According to historical sources, as early as 1897 the Site was undeveloped land. From as early as 1933, structures were evident along the northeastern and western Site lines, which were associated with agricultural operations by 1938.

Between 1946 and the present, the Site was used agriculturally, including one (1) dairy operation on the western portion of the Site, and another dairy operation on the northeastern portion of the Site.

From as early as 2006, the current day nursery operation on the southwestern portion of the Site was noted as well.

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Adjacent Property Land Use

North:	Schaefer Avenue, followed by corn crops.
Northeast:	Schaefer Avenue, followed by plowed agricultural land.
Northwest:	Schaefer Avenue and Euclid Avenue, followed by agricultural land.
South:	A truck yard, a vacant parcel, and a storage yard.
Southeast:	A residential structure (7226 Edison Avenue)
Southwest:	Euclid Avenue, followed by warehouses (14058 Euclid Avenue).
East:	A residential structure (7365 Schaefer Avenue), vacant land, and farmland, including equipment/vehicle storage yards.
West:	Euclid Avenue, followed by a commercial center, including Subway, Starbucks and Carl's Junior (7041, 7055, and 7069 Schaefer Avenue); a residential development (13817 Farmhouse Avenue); a trailer storage yard; and Robert R. Ford truck dealership (14042 Euclid Avenue).

2.5 Summary of Previous Assessment Reports

Converse Consultants, Phase I Environmental Site Assessment Report, 60-Acre Property, Euclid Avenue and Schaefer Avenue, Ontario, California, July 29, 2021.

The report identified the following RECs in connection with the Site:

- Agricultural use from as early as 1938 is a REC due to potential residual contamination from agricultural chemical use.
- On-site dairy operations and associated chemicals, manure and equipment from as early as 1946 are RECs.

Converse recommended the following:

- Soil sampling over the Site. Areas to be assessed should include the farmland catch basins, maintenance areas, aboveground storage tank (AST; and drain underneath the AST) & underground storage tank (UST) areas, and livestock/manure areas.
- Containers of hazardous materials, equipment, and tires should be removed in accordance with applicable regulations.
- A methane assessment in accordance with the City of Ontario requirements should be conducted.

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A *Limited Phase II ESA* Scope of Work was developed based on the User's needs.

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3.0 Work Performed and Rationale

3.1 Scope of Assessment

A conceptual model was developed in order to screen the Site.

3.1.1 Target Analytes

Target analytes include volatile organic compounds (VOCs), total petroleum hydrocarbons (TPH), organochlorine pesticides (OCPs), arsenic, and metals in the soil and/or soil vapor due to the current and historical on-site dairy and agricultural operations.

3.1.2 Target Analytes First Entered the Environment

The target analytes would have first entered the environment by surface spills or releases to the surface soil, or leaks from a current on-site AST, or a historical on-site UST.

3.1.3 Environmental Media and Locations Most Likely to Have the Highest Concentrations of Target Analytes

The environmental media most likely to have the highest concentrations of the target analytes are soil and soil vapor.

This *Limited Phase II ESA* consisted of the following primary elements:

- A total of nine (9) borings (AST-1 and AST-2, UST -1 and UST-2, and AG-1 through AG-5) were completed.

  - One (1) boring (AST-1) was completed to a depth of 15 feet bgs.
  - One (1) boring (AST-2) was completed to a depth of 5 feet bgs.
  - Two (2) borings (UST-1 and UST-2) were completed to depths of 25 feet bgs.
  - Five (5) borings (AG-1 through AG-5) were completed to depths of 2 feet bgs.

- Soil samples were collected from the following depths:

  - 2, 5, 10 and 15 feet bgs from boring AST-1;
  - 0.5, 2 and 5 feet bgs from boring AST-2,
  - 5, 10, 15, 20 and 25 feet bgs from borings UST-1 and UST-2; and
  - 0.5 and 2 feet bgs from borings AG-1 through AG-5.

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- Soil vapor samples were collected from depths of 10-feet bgs from borings AST-1 and UST-1.

- Analysis of soil and soil vapor samples was as follows:

  - Select soil samples from the AST and UST borings were analyzed in accordance with EPA Method 8260B for VOCs, EPA Method 8015M for TPH, and EPA Method 6010/7471A for metals.
  - All soil samples from the agricultural borings (AG-1 through AG-5), as well as the 0.5- and 2-feet bgs soil samples from boring AST-2, were analyzed in accordance with EPA Method 6010B for Arsenic and EPA Method 8081 for OCPs.
  - All soil vapor samples were analyzed in accordance with EPA Method TO-15 for VOCs.

3.2 Soil Sample Collection

Underground Services Alert (Dig Alert) was notified a minimum of 72 hours prior to commencing drilling activities.

On September 15, 2021, a total of nine (9) borings were completed by Interphase Environmental utilizing direct-push (Geoprobe) drilling methods. Boring locations were as follows:

- Boring AST-1 was completed in the vicinity of a 300-gallon diesel AST. The AST is mounted on a rack above a drain, which leads to a standpipe for flushing of a drainage pipe. The drainage pipe was broken approximately 5-feet below the ground surface, and approximately 20-feet east of the AST according to the occupant, Mr. Adrian Venegas of Art Venegas Dairy. Converse placed Boring AST-2 at the approximate location of the drainage pipe brake east of the AST as indicated by Mr. Venegas.
- Borings UST-1 and UST-2 were completed in the vicinity of a former UST location on the northeastern portion of the Site. The location was determined based on historical documentation from the San Bernardino County Fire Department and was confirmed by the occupant of this portion of the Site, Dr. Dan Drake of Drake Family Farms.
- Boring AG-1 was completed inside a coral for cows on the western portion of the Site (Art Venegas Dairy).
- Boring AG-2 was completed near the approximate center of an agricultural field on the southern portion of the Site (Art Venegas Dairy).
- Boring AG-3 was completed outside a coral for bulls on the northeastern portion of the Site.

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- Boring AG-4 was completed near the approximate center of an agricultural field on the northeastern portion of the Site (Art Venegas Dairy).
- Boring AG-5 was completed near the approximate center of an agricultural field on the northwestern portion of the Site (Art Venegas Dairy).

Soil cores were continuously collected during the drilling process (where possible). Portions of the soils were collected into sealable plastic bags for lithologic descriptions and screened for VOCs using a photo-ionization detector (PID). It is noted that no VOC concentrations were detected with the PID, except for one transient detection of 5 parts per million (ppm) of VOCs during the collection of soil core AST-2, at approximately 2-feet bgs.

Soil samples for laboratory analysis were cut from the acetate sleeves at the appropriate depths. Encore sample containers were used to collect subsamples of soil from select sleeve in accordance with EPA Method 5035 for analysis for VOCs and TPH carbon chain.

3.4 Soil Vapor Sample Collection

Following the collection of soil samples, temporary soil vapor probes were set at depths of 10 feet bgs in borings AST-1 and UST-1. Soil vapor probes were constructed using a six-inch stainless steel vapor implant connected to ¼-inch Teflon tubing. The implants were surrounded by an approximate 1-foot sand pack that extended slightly above and below the implant. The remainder of each borehole was filled with hydrated bentonite granules.

After installation, the probes were allowed to equilibrate for approximately 2 hours before purging and sampling.

Prior to sampling, the probes were purged of approximately 1 liter of air using a syringe. After purging, samples were collected using 1-liter summa canisters. Purging and sampling were conducted at flow rates of approximately 200 milliliters per minute. Soil vapor sampling was completed in general accordance with the Advisory-Active Soil Gas Investigations by the California Department of Toxic Substances Control (DTSC) and RWQCB, dated July 2015.

3.5 Field Quality Assurance/Quality Control

The following quality assurance and quality control measures were taken to evaluate the quality of the data generated:

- Standard EPA sample handling protocol including chain-of-custody control were followed.

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- New dedicated sampling equipment (acetate sleeves, Encore containers, and Teflon tubing) were used for the collection of samples.
- Reusable sampling equipment (cutting shoe) was decontaminated between uses.
- A shut-in test was conducted prior to the collection of soil vapor samples to evaluate the integrity of the fitting.

3.6 Chemical Analytical Methods

All samples were submitted under chain of custody documentation to Enthalpy Analytical in Orange, California. Enthalpy Analytical is certified by the State of California Environmental Laboratory Accreditation Program (ELAP) for the analyses conducted.

Select samples of soil from the AST and UST borings were analyzed in accordance with EPA Method 8260B for VOCs, EPA Method 8015M for TPH, and EPA Method 6010/7471A for metals.

All soil samples from the agricultural borings (AG-1 through AG-5), as well as the 0.5- and 2-feet bgs soil samples from boring AST-2, were analyzed in accordance with EPA Method 6010B for Arsenic and EPA Method 8081 for OCPs.

Soil vapor samples were analyzed for VOCs in accordance with EPA Method TO-15.

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4.0 Presentation and Evaluation of Results

4.1 Subsurface Conditions

During drilling activities, subsurface soils were observed to be generally consistent across the Site. Soil types generally consisted of brown sandy silts in the upper 5 feet, and fine-grained silty sand with minor amounts of clay between 5 and the maximum depth assessed of 25-feet bgs. Red-brown coloring was noted in one (1) soil sample from boring UST-2, at 25-feet bgs.

No stained or odorous soils were observed. The moisture content was low.

Groundwater was not encountered in any of the borings to maximum depths of 25 feet.

4.2 Analytical Results

A summary of the results is provided below. Analytical results were compared to the San Francisco Bay RWQCB's Environmental Screening Levels (ESLs), and screening levels (SLs) based on the Department of Toxic Substances Control (DTSC) Human Health Risk Assessment (HHRA) Note 3 and/or EPA Regional Screening Levels (RSLs). The results for metals were also compared to State and Federal hazardous waste screening levels. Copies of the laboratory analytical reports are included in Appendix B.

4.2.1 Soil Samples

All reported concentrations of arsenic are above the screening levels for residential and for commercial land use of 0.067 milligrams per kilogram (mg/kg) and 0.31 mg/kg, respectively, but below the applicable regional background concentration of 12 mg/kg, established by DTSC.

Lead was reported in all nine (9) samples analyzed for metals, at concentrations ranging from 5.1 to 12 mg/kg. All reported concentrations are less than the DTSC SL for lead in a residential land use scenario of 80 mg/kg.

All other reported metals concentrations were less than their respective screening levels for both residential and commercial land use scenarios. All reported values were less than their respective hazardous waste disposal criteria.

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Concentrations of TPH in the diesel range were reported in four (4) samples (UST-1-5, UST-1-15, UST-2-10, and UST-2-15). The concentrations in UST-1-15 (4,400 mg/kg) and UST-2-15 (1,200 mg/kg) were at or above the screening levels for residential and for commercial land use of 260 mg/kg and 1,200 mg/kg, respectively.

Concentrations of VOCs and TPH in the gasoline and heavy oil ranges were not reported in any of the samples analyzed.

Concentrations of three (3) OCPs were detected one or more samples from boring locations AST-2, AG-4, and AG-5. Dieldrin was reported in at a concentration of 0.015 mg/kg (15 micrograms per kilogram (µg/kg)). Maximum concentrations of DDE and DDT were reported at 0.41 and 0.031 mg/kg, respectively. All detected concentrations were below their respective screening levels for residential land use and applicable hazardous waste disposal criteria.

Tabulated data for soil samples is presented in Table 1.

4.2.2 Soil Vapor Samples

A total of 15 VOCs were detected in soil vapor sample AST-1-10, and a total of 12 VOCs were detected in soil vapor sample UST-1-10. Tabulated soil vapor sample data is presented in Table 2.

With the exception of benzene, ethylbenzene, and m,p-xylenes, the maximum concentrations of reported VOCs detected were below their ESLs and SLs for both residential and commercial land uses.

- Concentrations of benzene were reported in soil vapor samples AST-1-10 and UST-1-10 at 720 and 510 micrograms per cubic meter (µg/m^3), respectively. The reported concentrations are more than the screening levels for both residential and commercial land uses scenarios of 3.2 and 14 µg/m^3, respectively.
- Concentrations of ethylbenzene were reported in soil vapor samples AST-1-10 and UST-1-10 at 800 and 580 µg/m^3, respectively. The reported concentrations are more than the screening levels for both residential and commercial land uses scenarios of 37 and 160 µg/m^3.
- Concentrations of m,p-xylenes were reported in soil vapor samples AST-1-10 and UST-1-10 at 3,400 and 2,300 µg/m^3, respectively. The reported concentration in sample AST-1-10 is more than the residential screening level of 3,300 µg/m^3, but less than the commercial screening level of 15,000 µg/m^3.

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4.3 Data Quality Assurance/Quality Control

4.3.1 Hold Times

All soil and soil vapor samples were transported to the laboratory under chain-of-custody documentation and were analyzed within appropriate hold times.

4.3.2 Laboratory Quality Assurance

The laboratories provided data to estimate precision, accuracy, and bias. The laboratory reports indicated that the method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives for soil, sub-slab, and soil vapor.

4.3.3 Reporting Limits

Reporting Limits (RLs) for soil and soil vapor samples were provided by the laboratory.

The RLs for VOCs in soil ranged from 4.0 to 9,600 µg/kg.

The RLs for TPH ranged from 9.9 to 400 mg/kg.

The RLs for OCPs ranged from 5.0 to 1,000 mg/kg.

The RLs for metals were 0.14 to 5.2 mg/kg. A dilution factor (DF) of 0.83 to 1.1 was applied to the soil samples.

The RLs for VOCs in soil vapor samples ranged from 8.3 to 70 µg/m^3.

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5.0 Interpretation and Conclusions

5.1 RECs and Potential Release Area(s)

The Converse Phase I ESA identified the following RECs in connection with the Site:

- Agricultural use from as early as 1938 is a REC due to potential residual contamination from agricultural chemical use.
- On-site dairy operations and associated chemicals, manure, and equipment, from as early as 1946 are RECs.

5.2 Conceptual Model Validation/Adequacy of Investigations

It is our opinion that the field and analytical data validated the conceptual model.

5.3 Absence, Presence, Degree, Extent of Target Analytes

Soil:
All reported metals concentrations were less than their respective screening levels for both residential and commercial land use scenarios, or applicable regional background concentrations. All reported values were less than their respective hazardous waste disposal criteria.

Concentrations of TPH in the diesel range were reported in four (4) samples (UST-1-5, UST-1-15, UST-2-10, and UST-2-15). The concentrations in UST-1-15 (4,400 mg/kg) and UST-2-15 (1,200 mg/kg) were at or above the screening levels for residential and for commercial land use of 260 mg/kg and 1,200 mg/kg, respectively.

No VOCs or concentrations of TPH in the gasoline and heavy oil ranges were reported in the soil samples.

Concentrations of three (3) OCPs (dieldrin, DDE, and DDT) were detected at boring locations AST-2, AG-4, and AG-5. All detected concentrations were below their respective screening levels for residential and commercial land uses, and applicable hazardous waste disposal criteria.

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Soil Vapor:
A total of 15 VOCs were detected in soil vapor sample AST-1-10, and a total of 12 VOCs were detected in soil vapor sample UST-1-10.

Except for benzene, ethylbenzene, and m,p-xylenes, the maximum concentrations of reported VOCs detected were below their respective screening levels for residential land use.

The presence of benzene, toluene, ethylbenzene, and xylenes (BTEX) are commonly associated with petroleum products, and are likely related to the releases from the diesel tanks.

5.4 Other Concerns

5.4.1 Significant Assumptions

No significant assumptions were made during this assessment.

5.4.2 Limitations and Exceptions

No limitations or exceptions were encountered during this assessment.

5.4.3 Special Terms and Conditions

No special terms or conditions need to be noted in this *Limited Phase II ESA* report.

5.5 Conclusions/Objectives Met

Converse has performed a *Limited Phase II ESA* at the approximate 60-acre Site at the southeast corner of Euclid and Schaefer Avenues in the City of Ontario, in conformance with the scope and limitations of ASTM, E1903-19 and the following objectives:

- Evaluate RECs in connection with the Site that were identified during the prior Converse Phase I ESA.
- Identify if potential target analytes are present at concentrations greater than threshold criteria.

Converse presents the following findings based on the results of this assessment:

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- All reported metals concentrations were less than their respective screening levels for both residential and commercial land use scenarios, or applicable regional background concentrations. All reported values were less than their respective hazardous waste disposal criteria.
- TPH in the diesel range was reported in four (4) samples at the former UST location. The concentration in sample UST-1-15 was above the screening level for residential and commercial land use. The concentration in sample UST-2-15 was above the screening level for residential land use, but equal to the screening level for commercial land use. Concentrations of VOCs and TPH in the gasoline and heavy oil ranges were not reported in any of the samples analyzed.
- All detected OCP concentrations were less than their respective screening levels for residential land use, and applicable hazardous waste disposal criteria.
- A total of 15 VOCs were detected in soil vapor sample AST-1-10, and a total of 12 VOCs were detected in soil vapor sample UST-1-10. Except for benzene, ethylbenzene, and xylenes, the maximum concentrations of reported VOCs detected were below their screening levels for both residential and commercial land uses.
    - Benzene and ethylbenzene were detected at concentrations in excess of the respective screening levels for residential land use, and for commercial land use at both the current AST location, and the former UST location.
    - Concentrations of m,p-xylenes were reported in soil vapor sample AST-1-10 3,400 µg/m^3, which is more than the residential screening level of 3,300 µg/m^3, but less than the commercial screening level of 15,000 µg/m^3. The impacts from m, p-xylenes are therefore considered to be relatively minor and limited.

Based on the findings of this assessment Converse concludes the following:

- No impacts were identified associated with former agricultural uses of the Site.
- Both the soil and soil vapor appear to be impacted in the vicinity of the current ATS and former UST used for diesel.
    - The impacts to the soil appear to be relatively limited. Although TPH diesel was reported in excess of the commercial screening level at a depth of 15 feet bgs in boring UST-1, it was not detected in the samples from depths of 10 or 20 feet bgs. In boring UST-2 TPH diesel was only reported in the sample from 15 feet bgs, and the concentration was equal to the commercial screening level.

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- Concentrations of benzene, ethylbenzene, and xylenes were detected in both soil vapor samples at concentrations in excess of screening levels. The screening levels that these concentrations exceed are based on potential impacts to occupants from vapor intrusion. The current impact to the Site from these concentrations is considered to be minimal based on the lack of occupied structures in the vicinity of the AST and UST areas.

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6.0 Recommendations

Based on the findings of this assessment, the Site has been impacted from the diesel storage tanks (former UST and current AST). The impacts to the soil are considered to be relatively minor. The elevated concentrations of BTEX in soil vapor samples are not considered to pose a significant risk due to the lack of occupied structures in the vicinity of where there were detected. No further assessment appears warranted at this time. However, further testing should be conducted if Site uses change and structures are planned to be developed in the vicinity of the AST or former UST.

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7.0 Reliance

This report is for the sole benefit and exclusive use of RCCD, Inc. in accordance with the terms and conditions that were presented in the revised proposal dated August 30, 2021, under which these services have been provided. The preparation of this report has been in accordance with generally accepted environmental practices. No other warranty, either express or implied, is made.

This report should not be regarded as a guarantee that no further contamination, beyond that which could be detected within the scope of this assessment, is present at the Site. Converse makes no warranties or guarantees as to the accuracy or completeness of information provided or compiled by others. It is possible that information exists beyond the scope of this assessment. It is not possible to absolutely confirm that no hazardous materials and/or substances exist at the Site. If none are identified as part of a limited scope of work, such a conclusion should not be construed as a guaranteed absence of such materials, but merely the results of the evaluation of the Site at the time of the assessment. Also, events may occur after the Site visit, which may result in contamination of the Site. Additional information, which was not found or available to Converse at the time of report preparation, may result in a modification of the conclusions and recommendations presented.

Any reliance on this report by Third Parties shall be at the Third Party's sole risk. Should RCCD, Inc. wish to identify any additional relying parties not previously identified, a completed Application of Authorization to Use (see following page) must be submitted to Converse Consultants.

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8.0 References and Sources of Information

California State Department of Toxic Substances Control (DTSC) and California Regional Water Quality Control Board (RWQCB), Los Angeles Region, Advisory-Active Soil Gas Investigations, July 2015.

Converse Consultants, Phase I Environmental Site Assessment Report, 60-Acre Property, Euclid Avenue and Schaefer Avenue, Ontario, California, July 29, 2021.

Department of Toxic Substances Control (DTSC), Human Health Risk Evaluation (HHRA) Note 3, Table 3, June 2020.

San Francisco Bay Regional Water Quality Control Board, Environmental Screening Levels (ESLs), Generic Tables, 2019.

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Figures

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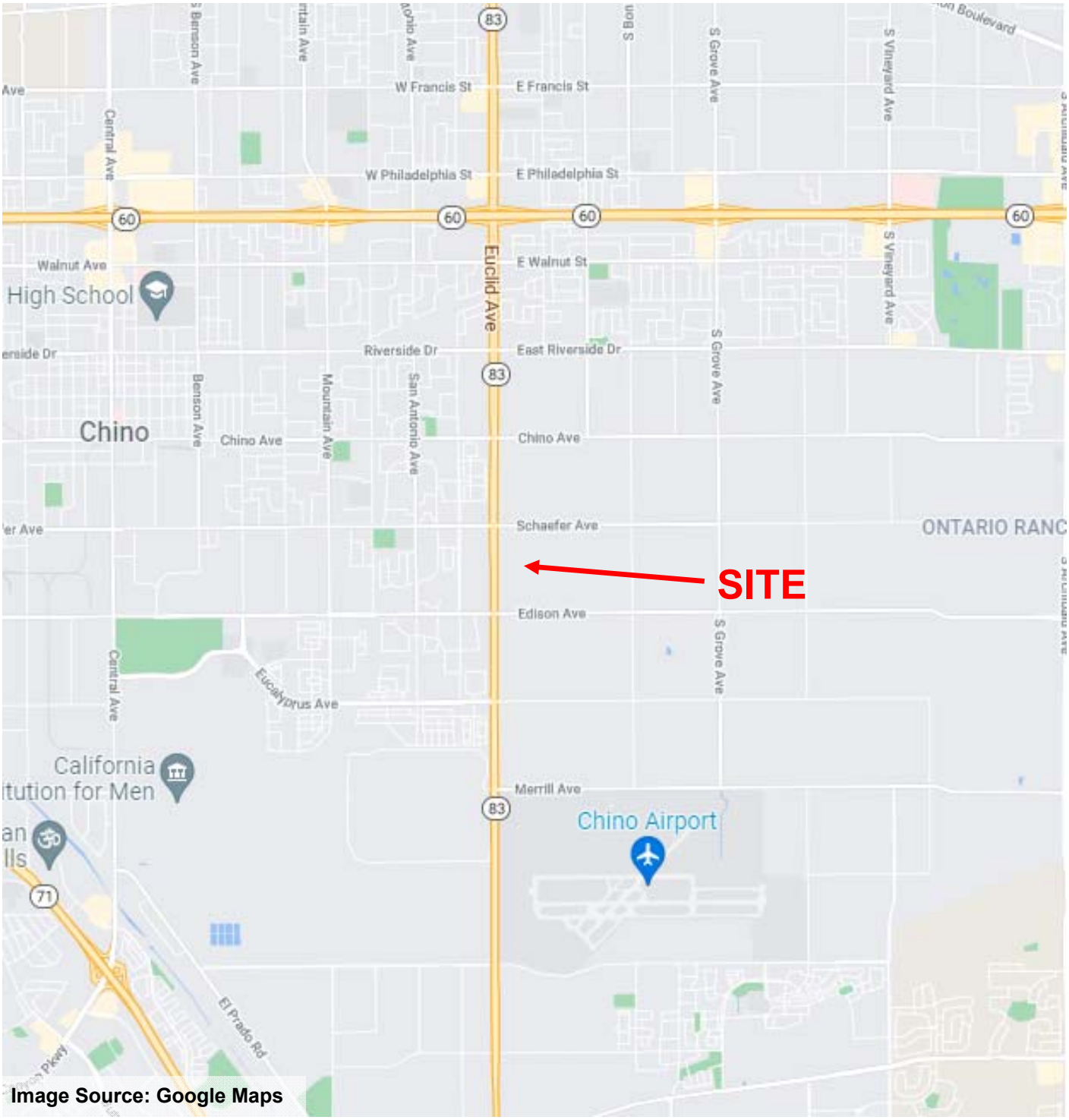


Image Source: Google Maps

SITE LOCATION MAP

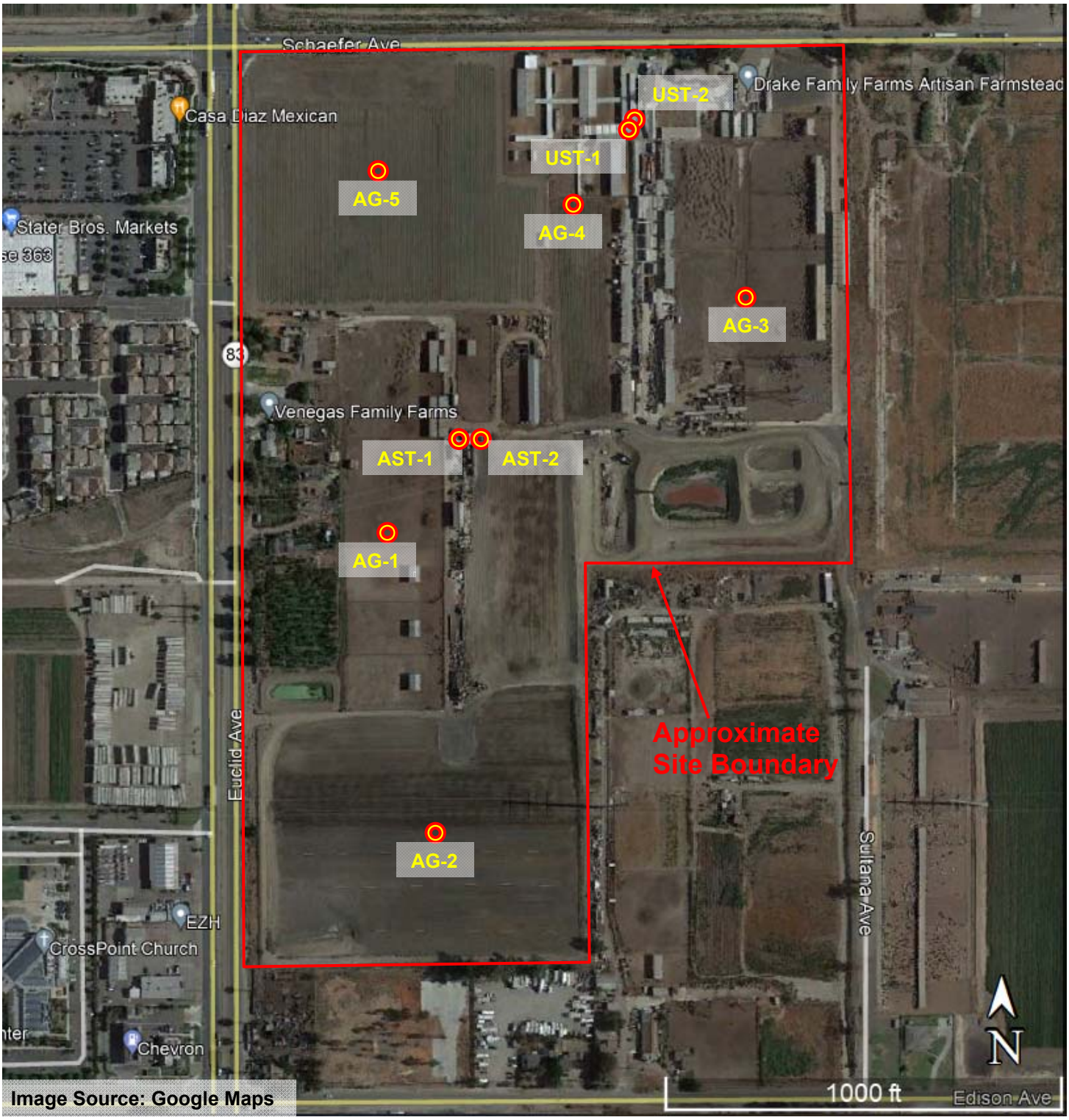
RCCD, Inc.
Approximate 60 Acre Site
Euclid Avenue and Schaefer Avenue
Ontario, California

Project No:

21-16-121-02

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FIGURE 1



SAMPLE LOCATION MAP

RCCD, Inc.
Approximate 60 Acre Site
Euclid Avenue and Schaefer Avenue
Ontario, California

Project No:

21-16-121-02

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FIGURE **2**

Tables

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Table 1
Summary of Analytical Results - Soil
SBCUSD - San Bernardino High School
1850 North E Street
San Bernardino, California

Sample ID	Sample Date	Metals (mg/kg)													TPH (mg/kg)			OCPs (mg/kg)				VOCs (ug/kg)
		Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Nickel	Vanadium	Zinc	All Other Metals	Gasoline	Diesel	Oil	Dieldrin	4,4'-DDE	4,4'-DDT	All Other OCPs	All VOCs
AST-1-2	9/15/21	**3.1**	**110**	**0.53**	ND	**24**	**8.9**	**15**	**5.8**	ND	**16**	**44**	**58.0**	ND	ND	ND	ND	NA	NA	NA	NA	ND
AST-1-5	9/15/21	**3.3**	**110**	**0.53**	ND	**24**	**9.6**	**14**	**5.8**	ND	**17**	**46**	**53**	ND	ND	ND	ND	NA	NA	NA	NA	ND
AST-2-0.5	9/15/21	**2.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.015**	**0.30**	ND	ND	NA
AST-2-2	9/15/21	**2.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	**0.13**	ND	ND	NA
AST-2-5	9/15/21	**3.6**	**110**	**0.63**	ND	**27**	**11**	**16**	**7.1**	ND	**19**	**50**	**55**	ND	ND	ND	ND	NA	NA	NA	NA	ND
UST-1-5	9/15/21	**3.0**	**89**	**0.49**	ND	**22**	**9.1**	**14**	**12.0**	ND	**15**	**43**	**48**	ND	ND	**16**	ND	NA	NA	NA	NA	ND
UST-1-10	9/15/21	**6.2**	**76.0**	**0.6**	ND	**22**	**7.5**	**18**	**5.1**	ND	**15**	**50**	**46**	ND	ND	ND	ND	NA	NA	NA	NA	ND
UST-1-15	9/15/21	**5.4**	**120**	**0.58**	ND	**49**	**9.8**	**23.0**	**7.5**	ND	**19**	**72**	**73**	ND	ND	**4,400**	ND	NA	NA	NA	NA	ND
UST-1-20	9/15/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA
UST-1-25	9/15/21	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA
UST-2-5	9/15/21	**2.6**	**100**	**0.51**	ND	**23**	**8.5**	**15**	**9.1**	ND	**15**	**40**	**61**	ND	ND	ND	ND	NA	NA	NA	NA	ND
UST-2-10	9/15/21	**7.5**	**99**	ND	ND	**20**	**8.6**	**18**	**4.7**	ND	**16**	**53**	**45**	ND	ND	**73**	ND	NA	NA	NA	NA	ND
UST-2-15	9/15/21	**4.3**	**130**	**0.85**	ND	**32**	**17**	**29**	**9.3**	ND	**24**	**82**	**76**	ND	ND	**1,200**	ND	NA	NA	NA	NA	ND
AG-1-0.5	9/15/21	**1.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA
AG-1-2	9/15/21	**1.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA
AG-2-0.5	9/15/21	**5.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA
AG-2-2	9/15/21	**6.8**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA
AG-3-0.5	9/15/21	**2.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA
AG-3-2	9/15/21	**4.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA
AG-4-0.5	9/15/21	**2.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	NA
AG-4-2	9/15/21	**3.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	**0.0059**	ND	ND	NA
AG-5-0.5	9/15/21	**3.1**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	**0.058**	**0.017**	ND	NA
AG-5-2	9/15/21	**2.4**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	**0.41**	**0.031**	ND	NA
Screening Levels	Residential	12	15,000	16	71	120,000	23	3,100	80	1.0	820	390	23,000		430	260	12,000	0.034	2.0	1.9		--
	Commercial		220,000	230	780	1,800,000	350	47,000	320	4.4	11,000	5,800	350,000		2,000	1,200	180,000	0.093	9.3	7.1		--
Regulatory Thresholds	TTLC	500	10,000	75	100	2,500	8,000	2,500	1,000	20	2,000	2,400	5,000		--	--	--	8	1	1		--
	STLC*	5	100	1	1	5	80	25	5	0.2	20	24	250		--	--	--	0.8	0.1	0.1		--
	TCLP*	5	100	--	1	5	--	--	5	0.2	--	--	--		--	--	--	--	--	--		--

Hilighting indicates value in excess of screening level
mg/kg = Milligrams per Kilogram
mg/L = Milligrams per Liter
ND = Not Detected

NA = Not Analyzed
TPH = Total Petroleum Hydrocarbons
VOCs = Volatile Organic Compounds

Converse Consultants
Project # 18-16-106-03

Table 2
Summary of Analytical Results - Soil Vapor
SBCUSD - San Bernardino High School
1850 North E Street
San Bernardino, California

Sample Location	Sample Depth (ft bgs)	Sample Date	Acetone	Carbon Disulfide	Methylene Chloride	n-Hexane	Benzene	4-Methyl-2-Pentanone	Toluene	2-Hexanone	Ethylbenzene	m,p-Xylenes	o-Xylene	4-Ethyltoluene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	All Other VOCs
AST-1	10	9/15/2021	**110**	**45**	**23**	**610**	**720**	**46**	**4,000**	**52**	**800**	**3,400**	**850**	**230**	**180**	**630**	ND
UST-1	10	9/15/2021	**89**	ND	**20**	**220**	**510**	**23**	**3,500**	ND	**580**	**2,300**	**570**	**130**	**91**	**300**	ND
Maximum Concentration (ug/m^3)			**110**	**45**	**23**	**610**	**720**	**46**	**4,000**	**52**	**800**	**3,400**	**850**	**230**	**180**	**630**	--
Screening Levels	**Residential**		1,100,000	24,000	33	24,000	3.2	100,000	10,000	1,000	37	3,300	3,300	--	2,100	2,100	--
	Commercial / Industrial		4,500,000	103,000	400	103,000	14	433,000	43,000	4,300	160	15,000	15,000	--	8,700	8,700	--

Screening levels based on RWQCB Environmental Screening Levels (ESLs) or DTSC HHRA Screening Levels
Screening levels for soil vapor calculated from DTSC HHRA SLs for ambient air by appling an attenuation factor (AF) of 0.03.
Exceeds Screening Levels
All values in units of micrograms per cubic meter (ug/m$^{3)}$
ft bgs = feet below ground surface

Application for Authorization to Use

Appendix A

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Application for Authorization to Use

TO: Converse Consultants
717 South Myrtle Avenue
Monrovia, California 91016

Project Title & Date: _____

Project Address: _____

FROM: (Please identify name & address of person/entity applying for permission to use the referenced report.)

_____

_____

_____

Applicant _____ hereby applies for permission to use the referenced report in order to:

_____

_____

_____

Applicant wishes or needs to use the referenced report because:

_____

_____

_____

Applicant also understands and agrees that the referenced document is a copyrighted document and shall remain the sole property of Converse Consultants. Unauthorized use or copying of the report is strictly prohibited without the express written permission of Converse Consultants. *Applicant* understands and agrees that Converse Consultants may withhold such permission at its sole discretion, or grant such permission upon agreement to Terms and Conditions, such as the payment of a re-use fee, amongst others.

Applicant Signature: _____

Applicant Name (print): _____

Title: _____

Date: _____

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Analytical Reports

Appendix B

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Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

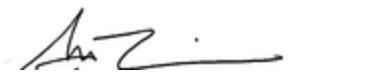
Lab Job Number: 450591
Report Level: II
Report Date: 09/22/2021

Analytical Report *prepared for:*

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Location: Artevel Phase II 21-16-121-02

Authorized for release by:



Jim Lin, Service Center Manager
Jim.lin@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE Member

ENTHALPY ANALYTICAL

Sample Summary

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Lab Job #: 450591
Location: Artevel Phase II 21-16-121-02
Date Received: 09/15/21

Sample ID	Lab ID	Collected	Matrix
AST-1-10	450591-001	09/15/21 13:58	Air
UST-1-10	450591-002	09/15/21 14:36	Air

ENTHALPY ANALYTICAL

Case Narrative

Converse Consultants	Lab Job Number: 450591
717 S. Myrtle Ave.	Location: Artevel Phase II 21-16-121-02
Monrovia, CA 91016	Date Received: 09/15/21
Mike Van Fleet	

This data package contains sample and QC results for two air samples, requested for the above referenced project on 09/15/21. The samples were received intact.

Volatile Organics in Air by MS (EPA TO-15):

No analytical problems were encountered.

ENTHALPY ANALYTICAL

Air Chain of Custody Record

Lab No: 450591

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	✓	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Barkley Ave, Orange
#N/A
#N/A

Special Instructions:

CUSTOMER INFORMATION

Company:	Converse Consultants
Report To:	Michael Van Fleet
Email:	mvanfleet@conversconsultants.com
Address:	717 S. Myrtle Ave, Monrovia
Phone:	626-930-1200
Fax:	626-930-1212

PROJECT INFORMATION

Name:	Arterial Phase II
Number:	21-16-121-02
P.O. #:	
Address:	Euclid & Schaefer, Ontario
Global ID:	
Sampled By:	Kaspar Wittlinger

	Sample ID	Type (I) Indoor (A) Ambient (SV) Soil Vapor (S) Source	Equipment Information: Canister ID	Size (1L, 3L, 6L, 15L)	Flow Controller ID	Sampling Information: Sample Start Date	Sample Start Time	Vacuum Start ("Hg)	Sample End Date	Sample End Time	Vacuum End ("Hg)	Analysis Requested: VOCs-TO-15
1	ASF-1-10	SV	C10112	1L		9/15/21	1:58	28	9/15/21	2:22	7	✓
2	USF-1-10	SV	C10343	1L		9/15/21	2:36	32	9/15/21	2:50	5	✓
3												
4												
5												
6												
7												
8												
9												
10												

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Kaspar Wittlinger	Converse Consultants	9/15/21 1647
[1] Received By:		ZAID PADILLA	EA/GL	9/15/21 1647
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

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SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Converse Consultants Project: _____

Date Received: 9/15/21 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☐ Yes, How many? _____ ☑ No (skip section 2) Sample Temp (°C) (No Cooler): Ambie

Sample Temp (°C), One from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☐ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____/_____

Project Manager's response:

Completed By: _____ Date: 9/15/21

ENTHALPY ANALYTICAL

Analysis Results for 450591

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Lab Job #: 450591
Location: Artevel Phase II 21-16-121-02
Date Received: 09/15/21

Sample ID: AST-1-10 **Lab ID: 450591-001** **Collected: 09/15/21 13:58**
Matrix: Air

450591-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15 Prep Method: METHOD									
Freon 12	ND		ug/m3	20	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Freon 114	ND		ug/m3	28	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Chloromethane	ND		ug/m3	8.3	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Vinyl Chloride	ND		ug/m3	10	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Bromomethane	ND		ug/m3	16	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Chloroethane	ND		ug/m3	11	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Trichlorofluoromethane	ND		ug/m3	22	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,1-Dichloroethene	ND		ug/m3	16	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Freon 113	ND		ug/m3	31	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Acetone	**110**		ug/m3	48	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Carbon Disulfide	**45**		ug/m3	12	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Isopropanol (IPA)	ND		ug/m3	49	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Methylene Chloride	**23**		ug/m3	14	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
trans-1,2-Dichloroethene	ND		ug/m3	16	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
MTBE	ND		ug/m3	14	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
n-Hexane	**610**		ug/m3	14	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,1-Dichloroethane	ND		ug/m3	16	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Vinyl Acetate	ND		ug/m3	70	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
cis-1,2-Dichloroethene	ND		ug/m3	16	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
2-Butanone	ND		ug/m3	59	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Chloroform	ND		ug/m3	20	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,1,1-Trichloroethane	ND		ug/m3	22	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Carbon Tetrachloride	ND		ug/m3	25	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Benzene	**720**		ug/m3	13	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,2-Dichloroethane	ND		ug/m3	16	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Trichloroethene	ND		ug/m3	21	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,2-Dichloropropane	ND		ug/m3	18	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Bromodichloromethane	ND		ug/m3	27	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
cis-1,3-Dichloropropene	ND		ug/m3	18	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
4-Methyl-2-Pentanone	**46**		ug/m3	16	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Toluene	**4,000**		ug/m3	30	40	274261	09/21/21 18:29	09/21/21 18:29	ZNZ
trans-1,3-Dichloropropene	ND		ug/m3	18	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,1,2-Trichloroethane	ND		ug/m3	22	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Tetrachloroethene	ND		ug/m3	27	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
2-Hexanone	**52**		ug/m3	41	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450591

450591-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dibromochloromethane	ND		ug/m3	34	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,2-Dibromoethane	ND		ug/m3	31	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Chlorobenzene	ND		ug/m3	18	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Ethylbenzene	**800**		ug/m3	17	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
m,p-Xylenes	**3,400**		ug/m3	35	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
o-Xylene	**850**		ug/m3	17	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Styrene	ND		ug/m3	17	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Bromoform	ND		ug/m3	41	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,1,2,2-Tetrachloroethane	ND		ug/m3	27	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,1,1,2-Tetrachloroethane	ND		ug/m3	27	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
4-Ethyltoluene	**230**		ug/m3	20	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,3,5-Trimethylbenzene	**180**		ug/m3	20	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,2,4-Trimethylbenzene	**630**		ug/m3	20	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,3-Dichlorobenzene	ND		ug/m3	24	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,4-Dichlorobenzene	ND		ug/m3	24	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Benzyl chloride	ND		ug/m3	21	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,2-Dichlorobenzene	ND		ug/m3	24	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
1,2,4-Trichlorobenzene	ND		ug/m3	30	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Hexachlorobutadiene	ND		ug/m3	43	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Xylene (total)	**4,300**		ug/m3	17	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ
Surrogates				**Limits**					
Bromofluorobenzene	112%		%REC	60-140	20	274186	09/21/21 00:07	09/21/21 00:07	ZNZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450591

Sample ID: UST-1-10	Lab ID: 450591-002	Collected: 09/15/21 14:36
	Matrix: Air	

450591-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA TO-15 Prep Method: METHOD									
Freon 12	ND		ug/m3	20	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Freon 114	ND		ug/m3	28	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Chloromethane	ND		ug/m3	8.3	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Vinyl Chloride	ND		ug/m3	10	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Bromomethane	ND		ug/m3	16	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Chloroethane	ND		ug/m3	11	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Trichlorofluoromethane	ND		ug/m3	22	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,1-Dichloroethene	ND		ug/m3	16	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Freon 113	ND		ug/m3	31	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Acetone	**89**		ug/m3	48	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Carbon Disulfide	ND		ug/m3	12	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Isopropanol (IPA)	ND		ug/m3	49	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Methylene Chloride	**20**		ug/m3	14	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
trans-1,2-Dichloroethene	ND		ug/m3	16	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
MTBE	ND		ug/m3	14	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
n-Hexane	**220**		ug/m3	14	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,1-Dichloroethane	ND		ug/m3	16	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Vinyl Acetate	ND		ug/m3	70	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
cis-1,2-Dichloroethene	ND		ug/m3	16	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
2-Butanone	ND		ug/m3	59	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Chloroform	ND		ug/m3	20	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,1,1-Trichloroethane	ND		ug/m3	22	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Carbon Tetrachloride	ND		ug/m3	25	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Benzene	**510**		ug/m3	13	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,2-Dichloroethane	ND		ug/m3	16	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Trichloroethene	ND		ug/m3	21	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,2-Dichloropropane	ND		ug/m3	18	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Bromodichloromethane	ND		ug/m3	27	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
cis-1,3-Dichloropropene	ND		ug/m3	18	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
4-Methyl-2-Pentanone	**23**		ug/m3	16	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Toluene	**3,500**		ug/m3	30	40	274261	09/21/21 17:50	09/21/21 17:50	ZNZ
trans-1,3-Dichloropropene	ND		ug/m3	18	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,1,2-Trichloroethane	ND		ug/m3	22	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Tetrachloroethene	ND		ug/m3	27	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
2-Hexanone	ND		ug/m3	41	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Dibromochloromethane	ND		ug/m3	34	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,2-Dibromoethane	ND		ug/m3	31	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Chlorobenzene	ND		ug/m3	18	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Ethylbenzene	**580**		ug/m3	17	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
m,p-Xylenes	**2,300**		ug/m3	35	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450591

450591-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
o-Xylene	**570**		ug/m3	17	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Styrene	ND		ug/m3	17	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Bromoform	ND		ug/m3	41	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,1,2,2-Tetrachloroethane	ND		ug/m3	27	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,1,1,2-Tetrachloroethane	ND		ug/m3	27	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
4-Ethyltoluene	**130**		ug/m3	20	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,3,5-Trimethylbenzene	**91**		ug/m3	20	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,2,4-Trimethylbenzene	**300**		ug/m3	20	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,3-Dichlorobenzene	ND		ug/m3	24	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,4-Dichlorobenzene	ND		ug/m3	24	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Benzyl chloride	ND		ug/m3	21	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,2-Dichlorobenzene	ND		ug/m3	24	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
1,2,4-Trichlorobenzene	ND		ug/m3	30	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Hexachlorobutadiene	ND		ug/m3	43	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Xylene (total)	**2,900**		ug/m3	17	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ
Surrogates				**Limits**					
Bromofluorobenzene	108%		%REC	60-140	20	274186	09/20/21 23:27	09/20/21 23:27	ZNZ

ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC944465**	**Batch:**	**274186**
Matrix:	**Air**	**Method:**	**EPA TO-15**	**Prep Method:**	**METHOD**

QC944465 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Freon 12	9.504	10.00	ppbv	95%		70-130
Freon 114	9.793	10.00	ppbv	98%		70-130
Chloromethane	8.638	10.00	ppbv	86%		70-130
Vinyl Chloride	9.711	10.00	ppbv	97%		70-130
Bromomethane	9.711	10.00	ppbv	97%		70-130
Chloroethane	10.05	10.00	ppbv	100%		70-130
Trichlorofluoromethane	9.499	10.00	ppbv	95%		70-130
1,1-Dichloroethene	9.948	10.00	ppbv	99%		70-130
Freon 113	9.947	10.00	ppbv	99%		70-130
Acetone	8.539	10.00	ppbv	85%		70-130
Carbon Disulfide	9.978	10.00	ppbv	100%		70-130
Isopropanol (IPA)	10.28	10.00	ppbv	103%		70-130
Methylene Chloride	8.711	10.00	ppbv	87%		70-130
trans-1,2-Dichloroethene	9.920	10.00	ppbv	99%		70-130
MTBE	11.01	10.00	ppbv	110%		70-130
n-Hexane	10.67	10.00	ppbv	107%		70-130
1,1-Dichloroethane	9.396	10.00	ppbv	94%		70-130
Vinyl Acetate	10.56	10.00	ppbv	106%		70-130
cis-1,2-Dichloroethene	10.21	10.00	ppbv	102%		70-130
2-Butanone	10.94	10.00	ppbv	109%		70-130
Chloroform	9.586	10.00	ppbv	96%		70-130
1,1,1-Trichloroethane	9.932	10.00	ppbv	99%		70-130
Carbon Tetrachloride	9.787	10.00	ppbv	98%		70-130
Benzene	10.32	10.00	ppbv	103%		70-130
1,2-Dichloroethane	9.440	10.00	ppbv	94%		70-130
Trichloroethene	10.09	10.00	ppbv	101%		70-130
1,2-Dichloropropane	9.794	10.00	ppbv	98%		70-130
Bromodichloromethane	9.725	10.00	ppbv	97%		70-130
cis-1,3-Dichloropropene	11.14	10.00	ppbv	111%		70-130
4-Methyl-2-Pentanone	10.89	10.00	ppbv	109%		70-130
trans-1,3-Dichloropropene	11.28	10.00	ppbv	113%		70-130
1,1,2-Trichloroethane	10.16	10.00	ppbv	102%		70-130
Tetrachloroethene	10.10	10.00	ppbv	101%		70-130
2-Hexanone	11.53	10.00	ppbv	115%		70-130
Dibromochloromethane	10.22	10.00	ppbv	102%		70-130
1,2-Dibromoethane	10.48	10.00	ppbv	105%		70-130
Chlorobenzene	10.40	10.00	ppbv	104%		70-130
Ethylbenzene	11.35	10.00	ppbv	113%		70-130
m,p-Xylenes	22.96	20.00	ppbv	115%		70-130
o-Xylene	11.53	10.00	ppbv	115%		70-130
Styrene	12.11	10.00	ppbv	121%		70-130
Bromoform	10.96	10.00	ppbv	110%		70-130

ENTHALPY ANALYTICAL

Batch QC

QC944465 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1,2,2-Tetrachloroethane	10.59	10.00	ppbv	106%		70-130
1,1,1,2-Tetrachloroethane	10.15	10.00	ppbv	102%		70-130
4-Ethyltoluene	11.84	10.00	ppbv	118%		70-130
1,3,5-Trimethylbenzene	11.54	10.00	ppbv	115%		70-130
1,2,4-Trimethylbenzene	11.84	10.00	ppbv	118%		70-130
1,3-Dichlorobenzene	10.95	10.00	ppbv	110%		70-130
1,4-Dichlorobenzene	11.02	10.00	ppbv	110%		70-130
Benzyl chloride	12.15	10.00	ppbv	121%		70-130
1,2-Dichlorobenzene	11.07	10.00	ppbv	111%		70-130
1,2,4-Trichlorobenzene	12.18	10.00	ppbv	122%		70-130
Hexachlorobutadiene	10.80	10.00	ppbv	108%		70-130
Surrogates						
Bromofluorobenzene	10.84	10.00	ppbv	108%		60-140

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC944466**	**Batch:**	**274186**
Matrix:	**Air**	**Method:**	**EPA TO-15**	**Prep Method:**	**METHOD**

QC944466 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Freon 12	9.317	10.00	ppbv	93%		70-130	2	30
Freon 114	9.883	10.00	ppbv	99%		70-130	1	30
Chloromethane	8.446	10.00	ppbv	84%		70-130	2	30
Vinyl Chloride	9.655	10.00	ppbv	97%		70-130	1	30
Bromomethane	9.600	10.00	ppbv	96%		70-130	1	30
Chloroethane	9.841	10.00	ppbv	98%		70-130	2	30
Trichlorofluoromethane	9.455	10.00	ppbv	95%		70-130	0	30
1,1-Dichloroethene	9.851	10.00	ppbv	99%		70-130	1	30
Freon 113	9.923	10.00	ppbv	99%		70-130	0	30
Acetone	8.753	10.00	ppbv	88%		70-130	2	30
Carbon Disulfide	9.899	10.00	ppbv	99%		70-130	1	30
Isopropanol (IPA)	10.28	10.00	ppbv	103%		70-130	0	30
Methylene Chloride	8.708	10.00	ppbv	87%		70-130	0	30
trans-1,2-Dichloroethene	9.895	10.00	ppbv	99%		70-130	0	30
MTBE	11.01	10.00	ppbv	110%		70-130	0	30
n-Hexane	10.52	10.00	ppbv	105%		70-130	1	30
1,1-Dichloroethane	9.310	10.00	ppbv	93%		70-130	1	30
Vinyl Acetate	10.54	10.00	ppbv	105%		70-130	0	30
cis-1,2-Dichloroethene	10.18	10.00	ppbv	102%		70-130	0	30
2-Butanone	10.88	10.00	ppbv	109%		70-130	1	30
Chloroform	9.449	10.00	ppbv	94%		70-130	1	30
1,1,1-Trichloroethane	9.829	10.00	ppbv	98%		70-130	1	30
Carbon Tetrachloride	9.676	10.00	ppbv	97%		70-130	1	30
Benzene	10.29	10.00	ppbv	103%		70-130	0	30
1,2-Dichloroethane	9.415	10.00	ppbv	94%		70-130	0	30
Trichloroethene	10.07	10.00	ppbv	101%		70-130	0	30
1,2-Dichloropropane	9.697	10.00	ppbv	97%		70-130	1	30
Bromodichloromethane	9.647	10.00	ppbv	96%		70-130	1	30
cis-1,3-Dichloropropene	10.91	10.00	ppbv	109%		70-130	2	30
4-Methyl-2-Pentanone	10.82	10.00	ppbv	108%		70-130	1	30
trans-1,3-Dichloropropene	11.08	10.00	ppbv	111%		70-130	2	30
1,1,2-Trichloroethane	9.962	10.00	ppbv	100%		70-130	2	30
Tetrachloroethene	10.06	10.00	ppbv	101%		70-130	0	30
2-Hexanone	11.57	10.00	ppbv	116%		70-130	0	30
Dibromochloromethane	10.23	10.00	ppbv	102%		70-130	0	30
1,2-Dibromoethane	10.56	10.00	ppbv	106%		70-130	1	30
Chlorobenzene	10.35	10.00	ppbv	103%		70-130	1	30
Ethylbenzene	11.29	10.00	ppbv	113%		70-130	0	30
m,p-Xylenes	22.84	20.00	ppbv	114%		70-130	1	30
o-Xylene	11.46	10.00	ppbv	115%		70-130	1	30
Styrene	12.16	10.00	ppbv	122%		70-130	0	30

ENTHALPY ANALYTICAL

Batch QC

QC944466 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Bromoform	10.82	10.00	ppbv	108%		70-130	1	30
1,1,2,2-Tetrachloroethane	10.47	10.00	ppbv	105%		70-130	1	30
1,1,1,2-Tetrachloroethane	9.942	10.00	ppbv	99%		70-130	2	30
4-Ethyltoluene	11.84	10.00	ppbv	118%		70-130	0	30
1,3,5-Trimethylbenzene	11.47	10.00	ppbv	115%		70-130	1	30
1,2,4-Trimethylbenzene	11.82	10.00	ppbv	118%		70-130	0	30
1,3-Dichlorobenzene	11.05	10.00	ppbv	110%		70-130	1	30
1,4-Dichlorobenzene	11.10	10.00	ppbv	111%		70-130	1	30
Benzyl chloride	12.02	10.00	ppbv	120%		70-130	1	30
1,2-Dichlorobenzene	11.08	10.00	ppbv	111%		70-130	0	30
1,2,4-Trichlorobenzene	12.52	10.00	ppbv	125%		70-130	3	30
Hexachlorobutadiene	10.67	10.00	ppbv	107%		70-130	1	30
Surrogates								
Bromofluorobenzene	10.58	10.00	ppbv	106%		60-140		

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC944467**	**Batch:**	**274186**
Matrix:	**Air**	**Method:**	**EPA TO-15**	**Prep Method:**	**METHOD**

QC944467 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Freon 12	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Freon 114	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Chloromethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Vinyl Chloride	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Bromomethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Chloroethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Trichlorofluoromethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,1-Dichloroethene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Freon 113	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Acetone	ND		ppbv	1.0	09/20/21 12:59	09/20/21 12:59
Carbon Disulfide	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Isopropanol (IPA)	ND		ppbv	1.0	09/20/21 12:59	09/20/21 12:59
Methylene Chloride	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
trans-1,2-Dichloroethene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
MTBE	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
n-Hexane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,1-Dichloroethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Vinyl Acetate	ND		ppbv	1.0	09/20/21 12:59	09/20/21 12:59
cis-1,2-Dichloroethene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
2-Butanone	ND		ppbv	1.0	09/20/21 12:59	09/20/21 12:59
Chloroform	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,1,1-Trichloroethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Carbon Tetrachloride	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Benzene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,2-Dichloroethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Trichloroethene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,2-Dichloropropane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Bromodichloromethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
cis-1,3-Dichloropropene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
4-Methyl-2-Pentanone	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
trans-1,3-Dichloropropene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,1,2-Trichloroethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Tetrachloroethene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
2-Hexanone	ND		ppbv	0.50	09/20/21 12:59	09/20/21 12:59
Dibromochloromethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,2-Dibromoethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Chlorobenzene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Ethylbenzene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
m,p-Xylenes	ND		ppbv	0.40	09/20/21 12:59	09/20/21 12:59
o-Xylene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Styrene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Bromoform	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59

ENTHALPY ANALYTICAL

Batch QC

QC944467 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
1,1,2,2-Tetrachloroethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,1,1,2-Tetrachloroethane	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
4-Ethyltoluene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,3,5-Trimethylbenzene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,2,4-Trimethylbenzene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,3-Dichlorobenzene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,4-Dichlorobenzene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Benzyl chloride	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,2-Dichlorobenzene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
1,2,4-Trichlorobenzene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Hexachlorobutadiene	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Xylene (total)	ND		ppbv	0.20	09/20/21 12:59	09/20/21 12:59
Surrogates				**Limits**		
Bromofluorobenzene	102%		%REC	60-140	09/20/21 12:59	09/20/21 12:59

Type: Lab Control Sample **Lab ID:** QC944685 **Batch:** 274261
Matrix: Air **Method:** EPA TO-15 **Prep Method:** METHOD

QC944685 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Toluene	10.93	10.00	ppbv	109%		70-130
Surrogates						
Bromofluorobenzene	10.88	10.00	ppbv	109%		60-140

Type: Lab Control Sample Duplicate **Lab ID:** QC944686 **Batch:** 274261
Matrix: Air **Method:** EPA TO-15 **Prep Method:** METHOD

QC944686 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Toluene	10.84	10.00	ppbv	108%		70-130	1	30
Surrogates								
Bromofluorobenzene	11.22	10.00	ppbv	112%		60-140		

Type: Blank **Lab ID:** QC944687 **Batch:** 274261
Matrix: Air **Method:** EPA TO-15 **Prep Method:** METHOD

QC944687 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Toluene	ND		ppbv	0.20	09/21/21 12:29	09/21/21 12:29
Surrogates				**Limits**		
Bromofluorobenzene	105%		%REC	60-140	09/21/21 12:29	09/21/21 12:29

ND Not Detected

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

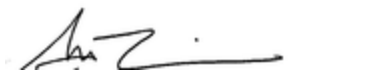
Lab Job Number: 450593
Report Level: II
Report Date: 09/21/2021

Analytical Report *prepared for:*

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Location: Artevel Phase II 21-16-121-02

Authorized for release by:



Jim Lin, Service Center Manager
Jim.lin@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE Member

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Sample Summary

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Lab Job #: 450593
Location: Artevel Phase II 21-16-121-02
Date Received: 09/15/21

Sample ID	Lab ID	Collected	Matrix
AST-1-2	450593-001	09/15/21 08:20	Soil
AST-1-5	450593-002	09/15/21 08:22	Soil
AST-1-10	450593-003	09/15/21 08:23	Soil
AST-1-15	450593-004	09/15/21 08:25	Soil
AST-2-0.5	450593-005	09/15/21 09:10	Soil
AST-2-2	450593-006	09/15/21 09:12	Soil
AST-2-5	450593-007	09/15/21 09:15	Soil

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Case Narrative

Converse Consultants	Lab Job Number: 450593
717 S. Myrtle Ave.	Location: Artevel Phase II 21-16-121-02
Monrovia, CA 91016	Date Received: 09/15/21
Mike Van Fleet	

This data package contains sample and QC results for five soil samples, requested for the above referenced project on 09/15/21. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015M):
High RPD was observed for diesel C10-C28 in the MS/MSD of UST-1-15 (lab # 450596-003); the high RPD was not associated with any reported results. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Pesticides (EPA 8081A):
Low recovery was observed for endrin in the MS of AG-3-0.5 (lab # 450592-005); the LCS was within limits. High RPD was observed for endrin and endrin ketone in the MS/MSD of AG-3-0.5 (lab # 450592-005); these analytes were not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):
Low recoveries were observed for antimony in the MS/MSD of AST-1-2 (lab # 450593-001); the associated RPD was within limits. High recovery was observed for barium in the MSD of AST-1-2 (lab # 450593-001). High RPD was also observed for barium in the MS/MSD of AST-1-2 (lab # 450593-001). No other analytical problems were encountered.

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Chain of Custody Record

Lab No: 450593

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	✓	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

<<< Select a Laboratory >>>

#N/A Barkley Ave, Orange

#N/A

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Converse Consultants	Name:	Arterial Phase II
Report To:	Michael Van Fleet	Number:	21-16-121-02
Email:	mvanfleet@conversconsultants.com	P/O. #:	
Address:	717 S. Myrtle Ave	Address:	Euclid Ave & Riverside Ave
	Monrovia, CA 91016		Ontario, CA
Phone:	626-930-1200	Global ID:	
Fax:	626-930-1212	Sampled By:	Caesper Witthinger

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: TPH-cc – 8015M	Metals – 6010B/7471A	VOCs – 8260B	Arsenic – 6010B	OCPs – 8081	Test Instructions / Comments
1	AST-1-2	9/15/21	8:20	S	1 sleeve/2 encores	ice	✓	✓	✓			
2	AST-1-5	↓	8:22	↓	↓	↓	✓	✓	✓			
3	AST-1-10		8:23									hold
4	AST-1-15		8:25		↓							hold
5	AST-2-0.5		9:10		1 sleeve					✓	✓	
6	AST-2-2		9:12		1 sleeve					✓	✓	
7	AST-2-5	↓	9:15	↓	1 sleeve/2 encores	↓	✓	✓	✓			
8												
9												
10												

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Caesper Witthinger	Converse Consultants	9/15/21 1647
1 Received By:		ZAID DADILLA	EAGL	9/15/21 1647
2 Relinquished By:				
2 Received By:				
3 Relinquished By:				
3 Received By:				

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SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Converse Consultants Project: _____

Date Received: 9/15/21 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 8.6 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.2 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 9/15/21

ENTHALPY ANALYTICAL

Analysis Results for 450593

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Lab Job #: 450593
Location: Artevel Phase II 21-16-121-02
Date Received: 09/15/21

Sample ID: AST-1-2 **Lab ID: 450593-001** **Collected: 09/15/21 08:20**
Matrix: Soil

450593-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.97	274063	09/16/21	09/17/21	KLN
Arsenic	**3.1**		mg/Kg	0.97	0.97	274063	09/16/21	09/17/21	KLN
Barium	**110**		mg/Kg	0.97	0.97	274063	09/16/21	09/17/21	KLN
Beryllium	**0.53**		mg/Kg	0.49	0.97	274063	09/16/21	09/17/21	KLN
Cadmium	ND		mg/Kg	0.49	0.97	274063	09/16/21	09/17/21	KLN
Chromium	**24**		mg/Kg	0.97	0.97	274063	09/16/21	09/17/21	KLN
Cobalt	**8.9**		mg/Kg	0.49	0.97	274063	09/16/21	09/17/21	KLN
Copper	**15**		mg/Kg	0.97	0.97	274063	09/16/21	09/17/21	KLN
Lead	**5.8**		mg/Kg	0.97	0.97	274063	09/16/21	09/17/21	KLN
Molybdenum	ND		mg/Kg	0.97	0.97	274063	09/16/21	09/17/21	KLN
Nickel	**16**		mg/Kg	0.97	0.97	274063	09/16/21	09/17/21	KLN
Selenium	ND		mg/Kg	2.9	0.97	274063	09/16/21	09/17/21	KLN
Silver	ND		mg/Kg	0.49	0.97	274063	09/16/21	09/17/21	KLN
Thallium	ND		mg/Kg	2.9	0.97	274063	09/16/21	09/17/21	KLN
Vanadium	**44**		mg/Kg	0.97	0.97	274063	09/16/21	09/17/21	KLN
Zinc	**58**		mg/Kg	4.9	0.97	274063	09/16/21	09/17/21	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.14	1	274112	09/16/21	09/17/21	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
DRO C10-C28	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
ORO C28-C44	ND		mg/Kg	20	1	274073	09/16/21	09/17/21	MES
Surrogates				**Limits**					
n-Triacontane	93%		%REC	70-130	1	274073	09/16/21	09/17/21	MES
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Freon 12	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Chloromethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Vinyl Chloride	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Bromomethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450593

450593-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Chloroethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Trichlorofluoromethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Acetone	ND		ug/Kg	79	0.79	274076	09/17/21	09/17/21	RAO
Freon 113	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Methylene Chloride	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
MTBE	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
trans-1,2-Dichloroethene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
2-Butanone	ND		ug/Kg	79	0.79	274076	09/17/21	09/17/21	RAO
cis-1,2-Dichloroethene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
2,2-Dichloropropane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Chloroform	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Bromochloromethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,1,1-Trichloroethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,1-Dichloropropene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Carbon Tetrachloride	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Benzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Trichloroethene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,2-Dichloropropane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Bromodichloromethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Dibromomethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
4-Methyl-2-Pentanone	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
cis-1,3-Dichloropropene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Toluene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
trans-1,3-Dichloropropene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,1,2-Trichloroethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,3-Dichloropropane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Tetrachloroethene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Dibromochloromethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,2-Dibromoethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Chlorobenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Ethylbenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
m,p-Xylenes	ND		ug/Kg	7.9	0.79	274076	09/17/21	09/17/21	RAO
o-Xylene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Styrene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Bromoform	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Isopropylbenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,2,3-Trichloropropane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Propylbenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Bromobenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,3,5-Trimethylbenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
2-Chlorotoluene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450593

450593-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorotoluene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
tert-Butylbenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,2,4-Trimethylbenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
sec-Butylbenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
para-Isopropyl Toluene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,3-Dichlorobenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,4-Dichlorobenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
n-Butylbenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,2-Dichlorobenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,2,4-Trichlorobenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Hexachlorobutadiene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Naphthalene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
1,2,3-Trichlorobenzene	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Xylene (total)	ND		ug/Kg	4.0	0.79	274076	09/17/21	09/17/21	RAO
Surrogates				**Limits**					
Dibromofluoromethane	102%		%REC	70-145	0.79	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane-d4	104%		%REC	70-145	0.79	274076	09/17/21	09/17/21	RAO
Toluene-d8	100%		%REC	70-145	0.79	274076	09/17/21	09/17/21	RAO
Bromofluorobenzene	96%		%REC	70-145	0.79	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450593

Sample ID: AST-1-5	Lab ID: 450593-002	Collected: 09/15/21 08:22
	Matrix: Soil	

450593-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.5	0.83	274063	09/16/21	09/17/21	KLN
Arsenic	**3.3**		mg/Kg	0.83	0.83	274063	09/16/21	09/17/21	KLN
Barium	**110**		mg/Kg	0.83	0.83	274063	09/16/21	09/17/21	KLN
Beryllium	**0.53**		mg/Kg	0.42	0.83	274063	09/16/21	09/17/21	KLN
Cadmium	ND		mg/Kg	0.42	0.83	274063	09/16/21	09/17/21	KLN
Chromium	**24**		mg/Kg	0.83	0.83	274063	09/16/21	09/17/21	KLN
Cobalt	**9.6**		mg/Kg	0.42	0.83	274063	09/16/21	09/17/21	KLN
Copper	**14**		mg/Kg	0.83	0.83	274063	09/16/21	09/17/21	KLN
Lead	**5.8**		mg/Kg	0.83	0.83	274063	09/16/21	09/17/21	KLN
Molybdenum	ND		mg/Kg	0.83	0.83	274063	09/16/21	09/17/21	KLN
Nickel	**17**		mg/Kg	0.83	0.83	274063	09/16/21	09/17/21	KLN
Selenium	ND		mg/Kg	2.5	0.83	274063	09/16/21	09/17/21	KLN
Silver	ND		mg/Kg	0.42	0.83	274063	09/16/21	09/17/21	KLN
Thallium	ND		mg/Kg	2.5	0.83	274063	09/16/21	09/17/21	KLN
Vanadium	**46**		mg/Kg	0.83	0.83	274063	09/16/21	09/17/21	KLN
Zinc	**53**		mg/Kg	4.2	0.83	274063	09/16/21	09/17/21	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	274112	09/16/21	09/17/21	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
DRO C10-C28	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
ORO C28-C44	ND		mg/Kg	20	1	274073	09/16/21	09/17/21	MES
Surrogates				**Limits**					
n-Triacontane	99%		%REC	70-130	1	274073	09/16/21	09/17/21	MES
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Freon 12	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Chloromethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Vinyl Chloride	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Bromomethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Chloroethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Trichlorofluoromethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Acetone	ND		ug/Kg	83	0.83	274076	09/17/21	09/17/21	RAO
Freon 113	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450593

450593-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Methylene Chloride	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
MTBE	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
trans-1,2-Dichloroethene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
2-Butanone	ND		ug/Kg	83	0.83	274076	09/17/21	09/17/21	RAO
cis-1,2-Dichloroethene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
2,2-Dichloropropane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Chloroform	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Bromochloromethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,1,1-Trichloroethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,1-Dichloropropene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Carbon Tetrachloride	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Benzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Trichloroethene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,2-Dichloropropane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Bromodichloromethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Dibromomethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
4-Methyl-2-Pentanone	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
cis-1,3-Dichloropropene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Toluene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
trans-1,3-Dichloropropene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,1,2-Trichloroethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,3-Dichloropropane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Tetrachloroethene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Dibromochloromethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,2-Dibromoethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Chlorobenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Ethylbenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
m,p-Xylenes	ND		ug/Kg	8.3	0.83	274076	09/17/21	09/17/21	RAO
o-Xylene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Styrene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Bromoform	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Isopropylbenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,2,3-Trichloropropane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Propylbenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Bromobenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,3,5-Trimethylbenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
2-Chlorotoluene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
4-Chlorotoluene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
tert-Butylbenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,2,4-Trimethylbenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
sec-Butylbenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
para-Isopropyl Toluene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450593

450593-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,4-Dichlorobenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
n-Butylbenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,2-Dichlorobenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,2,4-Trichlorobenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Hexachlorobutadiene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Naphthalene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
1,2,3-Trichlorobenzene	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Xylene (total)	ND		ug/Kg	4.2	0.83	274076	09/17/21	09/17/21	RAO
Surrogates				**Limits**					
Dibromofluoromethane	100%		%REC	70-145	0.83	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane-d4	106%		%REC	70-145	0.83	274076	09/17/21	09/17/21	RAO
Toluene-d8	99%		%REC	70-145	0.83	274076	09/17/21	09/17/21	RAO
Bromofluorobenzene	97%		%REC	70-145	0.83	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450593

Sample ID: AST-2-0.5	Lab ID: 450593-005	Collected: 09/15/21 09:10
	Matrix: Soil	

450593-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**2.4**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Dieldrin	**15**		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDE	**300**		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	5.0	1	274027	09/16/21	09/17/21	TRN
Methoxychlor	ND		ug/Kg	10	1	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	100	1	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	50	1	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	65%		%REC	23-120	1	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	64%		%REC	24-120	1	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450593

Sample ID: AST-2-2	Lab ID: 450593-006	Collected: 09/15/21 09:12
	Matrix: Soil	

450593-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**2.2**		mg/Kg	0.99	0.99	274063	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDE	**130**		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	5.0	1	274027	09/16/21	09/17/21	TRN
Methoxychlor	ND		ug/Kg	10	1	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	100	1	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	50	1	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	62%		%REC	23-120	1	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	71%		%REC	24-120	1	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450593

Sample ID: AST-2-5	Lab ID: 450593-007	Collected: 09/15/21 09:15
	Matrix: Soil	

450593-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	3.1	1	274063	09/16/21	09/17/21	KLN
Arsenic	**3.6**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Barium	**110**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Beryllium	**0.63**		mg/Kg	0.51	1	274063	09/16/21	09/17/21	KLN
Cadmium	ND		mg/Kg	0.51	1	274063	09/16/21	09/17/21	KLN
Chromium	**27**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Cobalt	**11**		mg/Kg	0.51	1	274063	09/16/21	09/17/21	KLN
Copper	**16**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Lead	**7.1**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Molybdenum	ND		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Nickel	**19**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Selenium	ND		mg/Kg	3.1	1	274063	09/16/21	09/17/21	KLN
Silver	ND		mg/Kg	0.51	1	274063	09/16/21	09/17/21	KLN
Thallium	ND		mg/Kg	3.1	1	274063	09/16/21	09/17/21	KLN
Vanadium	**50**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Zinc	**55**		mg/Kg	5.1	1	274063	09/16/21	09/17/21	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	274112	09/16/21	09/17/21	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
DRO C10-C28	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
ORO C28-C44	ND		mg/Kg	20	1	274073	09/16/21	09/17/21	MES
Surrogates				**Limits**					
n-Triacontane	96%		%REC	70-130	1	274073	09/16/21	09/17/21	MES
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Freon 12	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Chloromethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Vinyl Chloride	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Bromomethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Chloroethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Trichlorofluoromethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Acetone	ND		ug/Kg	81	0.81	274076	09/17/21	09/17/21	RAO
Freon 113	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450593

450593-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Methylene Chloride	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
MTBE	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
trans-1,2-Dichloroethene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
2-Butanone	ND		ug/Kg	81	0.81	274076	09/17/21	09/17/21	RAO
cis-1,2-Dichloroethene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
2,2-Dichloropropane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Chloroform	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Bromochloromethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,1,1-Trichloroethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,1-Dichloropropene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Carbon Tetrachloride	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Benzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Trichloroethene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,2-Dichloropropane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Bromodichloromethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Dibromomethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
4-Methyl-2-Pentanone	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
cis-1,3-Dichloropropene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Toluene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
trans-1,3-Dichloropropene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,1,2-Trichloroethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,3-Dichloropropane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Tetrachloroethene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Dibromochloromethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,2-Dibromoethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Chlorobenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Ethylbenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
m,p-Xylenes	ND		ug/Kg	8.1	0.81	274076	09/17/21	09/17/21	RAO
o-Xylene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Styrene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Bromoform	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Isopropylbenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,2,3-Trichloropropane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Propylbenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Bromobenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,3,5-Trimethylbenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
2-Chlorotoluene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
4-Chlorotoluene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
tert-Butylbenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,2,4-Trimethylbenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
sec-Butylbenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
para-Isopropyl Toluene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450593

450593-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,4-Dichlorobenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
n-Butylbenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,2-Dichlorobenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,2,4-Trichlorobenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Hexachlorobutadiene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Naphthalene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
1,2,3-Trichlorobenzene	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Xylene (total)	ND		ug/Kg	4.0	0.81	274076	09/17/21	09/17/21	RAO
Surrogates				**Limits**					
Dibromofluoromethane	105%		%REC	70-145	0.81	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane-d4	109%		%REC	70-145	0.81	274076	09/17/21	09/17/21	RAO
Toluene-d8	100%		%REC	70-145	0.81	274076	09/17/21	09/17/21	RAO
Bromofluorobenzene	94%		%REC	70-145	0.81	274076	09/17/21	09/17/21	RAO

ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC944004**	**Batch: 274027**
Matrix: Soil	**Method: EPA 8081A**	**Prep Method: EPA 3546**

QC944004 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
alpha-BHC	ND		ug/Kg	5.0	09/16/21	09/16/21
beta-BHC	ND		ug/Kg	5.0	09/16/21	09/16/21
gamma-BHC	ND		ug/Kg	5.0	09/16/21	09/16/21
delta-BHC	ND		ug/Kg	5.0	09/16/21	09/16/21
Heptachlor	ND		ug/Kg	5.0	09/16/21	09/16/21
Aldrin	ND		ug/Kg	5.0	09/16/21	09/16/21
Heptachlor epoxide	ND		ug/Kg	5.0	09/16/21	09/16/21
Endosulfan I	ND		ug/Kg	5.0	09/16/21	09/16/21
Dieldrin	ND		ug/Kg	5.0	09/16/21	09/16/21
4,4'-DDE	ND		ug/Kg	5.0	09/16/21	09/16/21
Endrin	ND		ug/Kg	5.0	09/16/21	09/16/21
Endosulfan II	ND		ug/Kg	5.0	09/16/21	09/16/21
Endosulfan sulfate	ND		ug/Kg	5.0	09/16/21	09/16/21
4,4'-DDD	ND		ug/Kg	5.0	09/16/21	09/16/21
Endrin aldehyde	ND		ug/Kg	5.0	09/16/21	09/16/21
Endrin ketone	ND		ug/Kg	5.0	09/16/21	09/16/21
4,4'-DDT	ND		ug/Kg	5.0	09/16/21	09/16/21
Methoxychlor	ND		ug/Kg	10	09/16/21	09/16/21
Toxaphene	ND		ug/Kg	100	09/16/21	09/16/21
Chlordane (Technical)	ND		ug/Kg	50	09/16/21	09/16/21
Surrogates				**Limits**		
TCMX	62%		%REC	23-120	09/16/21	09/16/21
Decachlorobiphenyl	67%		%REC	24-120	09/16/21	09/16/21

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID: QC944005**	**Batch: 274027**
Matrix: Soil	**Method: EPA 8081A**	**Prep Method: EPA 3546**

QC944005 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	37.23	50.00	ug/Kg	74%		22-129
beta-BHC	39.00	50.00	ug/Kg	78%		28-125
gamma-BHC	36.70	50.00	ug/Kg	73%		22-128
delta-BHC	36.51	50.00	ug/Kg	73%		24-131
Heptachlor	36.86	50.00	ug/Kg	74%		18-124
Aldrin	33.63	50.00	ug/Kg	67%		23-120
Heptachlor epoxide	33.48	50.00	ug/Kg	67%		26-120
Endosulfan I	36.74	50.00	ug/Kg	73%		25-126
Dieldrin	35.97	50.00	ug/Kg	72%		23-124
4,4'-DDE	33.78	50.00	ug/Kg	68%		28-121
Endrin	25.71	50.00	ug/Kg	51%	#	25-127
Endosulfan II	36.31	50.00	ug/Kg	73%		29-121
Endosulfan sulfate	40.07	50.00	ug/Kg	80%		30-121
4,4'-DDD	33.64	50.00	ug/Kg	67%		26-120
Endrin aldehyde	29.12	50.00	ug/Kg	58%		10-120
Endrin ketone	39.94	50.00	ug/Kg	80%		28-125
4,4'-DDT	36.01	50.00	ug/Kg	72%	#	22-125
Methoxychlor	34.43	50.00	ug/Kg	69%	#	28-130
Surrogates						
TCMX	35.21	50.00	ug/Kg	70%		23-120
Decachlorobiphenyl	35.35	50.00	ug/Kg	71%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC944006**	**Batch:**	**274027**
Matrix (Source ID):	**Soil (450592-005)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC944006 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	34.95	ND	50.00	ug/Kg	70%		46-120	1
beta-BHC	33.04	ND	50.00	ug/Kg	66%		41-120	1
gamma-BHC	33.32	ND	50.00	ug/Kg	67%		41-120	1
delta-BHC	31.60	ND	50.00	ug/Kg	63%		38-123	1
Heptachlor	32.74	ND	50.00	ug/Kg	65%		39-120	1
Aldrin	29.77	ND	50.00	ug/Kg	60%		34-120	1
Heptachlor epoxide	30.02	ND	50.00	ug/Kg	60%		43-120	1
Endosulfan I	32.36	ND	50.00	ug/Kg	65%		45-120	1
Dieldrin	29.23	ND	50.00	ug/Kg	58%		45-120	1
4,4'-DDE	32.42	ND	50.00	ug/Kg	65%		34-120	1
Endrin	3.058	ND	50.00	ug/Kg	6%	#,*	40-120	1
Endosulfan II	29.55	ND	50.00	ug/Kg	59%		41-120	1
Endosulfan sulfate	31.21	ND	50.00	ug/Kg	62%		42-120	1
4,4'-DDD	30.53	ND	50.00	ug/Kg	61%		41-120	1
Endrin aldehyde	26.39	ND	50.00	ug/Kg	53%		30-120	1
Endrin ketone	46.56	ND	50.00	ug/Kg	93%		45-120	1
4,4'-DDT	32.47	ND	50.00	ug/Kg	65%	#	35-127	1
Methoxychlor	27.74	ND	50.00	ug/Kg	55%	#	42-136	1
Surrogates								
TCMX	28.56		50.00	ug/Kg	57%		23-120	1
Decachlorobiphenyl	28.43		50.00	ug/Kg	57%		24-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC944007**	**Batch:**	**274027**
Matrix (Source ID):	**Soil (450592-005)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC944007 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	38.11	ND	50.00	ug/Kg	76%		46-120	9	30	1
beta-BHC	37.25	ND	50.00	ug/Kg	74%		41-120	12	30	1
gamma-BHC	36.98	ND	50.00	ug/Kg	74%		41-120	10	30	1
delta-BHC	36.13	ND	50.00	ug/Kg	72%		38-123	13	30	1
Heptachlor	35.34	ND	50.00	ug/Kg	71%		39-120	8	30	1
Aldrin	33.17	ND	50.00	ug/Kg	66%		34-120	11	30	1
Heptachlor epoxide	32.58	ND	50.00	ug/Kg	65%		43-120	8	30	1
Endosulfan I	35.81	ND	50.00	ug/Kg	72%		45-120	10	30	1
Dieldrin	35.03	ND	50.00	ug/Kg	70%		45-120	18	30	1
4,4'-DDE	35.02	ND	50.00	ug/Kg	70%		34-120	8	30	1
Endrin	34.84	ND	50.00	ug/Kg	70%	#	40-120	168*	30	1
Endosulfan II	34.18	ND	50.00	ug/Kg	68%		41-120	15	30	1
Endosulfan sulfate	34.25	ND	50.00	ug/Kg	68%		42-120	9	30	1
4,4'-DDD	31.84	ND	50.00	ug/Kg	64%		41-120	4	30	1
Endrin aldehyde	25.33	ND	50.00	ug/Kg	51%		30-120	4	30	1
Endrin ketone	33.74	ND	50.00	ug/Kg	67%		45-120	32*	30	1
4,4'-DDT	35.79	ND	50.00	ug/Kg	72%	#	35-127	10	30	1
Methoxychlor	30.01	ND	50.00	ug/Kg	60%	#	42-136	8	30	1
Surrogates										
TCMX	34.22		50.00	ug/Kg	68%		23-120			1
Decachlorobiphenyl	31.45		50.00	ug/Kg	63%		24-120			1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC944086	**Batch:** 274063
Matrix: Miscell.	**Method:** EPA 6010B	**Prep Method:** EPA 3050B

QC944086 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Antimony	ND		mg/Kg	3.0	09/16/21	09/21/21
Arsenic	ND		mg/Kg	1.0	09/16/21	09/21/21
Barium	ND		mg/Kg	1.0	09/16/21	09/21/21
Beryllium	ND		mg/Kg	0.50	09/16/21	09/21/21
Cadmium	ND		mg/Kg	0.50	09/16/21	09/21/21
Chromium	ND		mg/Kg	1.0	09/16/21	09/21/21
Cobalt	ND		mg/Kg	0.50	09/16/21	09/21/21
Copper	ND		mg/Kg	1.0	09/16/21	09/21/21
Lead	ND		mg/Kg	1.0	09/16/21	09/21/21
Molybdenum	ND		mg/Kg	1.0	09/16/21	09/21/21
Nickel	ND		mg/Kg	1.0	09/16/21	09/21/21
Selenium	ND		mg/Kg	3.0	09/16/21	09/21/21
Silver	ND		mg/Kg	0.50	09/16/21	09/21/21
Thallium	ND		mg/Kg	3.0	09/16/21	09/21/21
Vanadium	ND		mg/Kg	1.0	09/16/21	09/21/21
Zinc	ND		mg/Kg	5.0	09/16/21	09/21/21

Type: Lab Control Sample	**Lab ID:** QC944087	**Batch:** 274063
Matrix: Miscell.	**Method:** EPA 6010B	**Prep Method:** EPA 3050B

QC944087 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	99.42	100.0	mg/Kg	99%		80-120
Arsenic	95.38	100.0	mg/Kg	95%		80-120
Barium	98.08	100.0	mg/Kg	98%		80-120
Beryllium	95.11	100.0	mg/Kg	95%		80-120
Cadmium	93.59	100.0	mg/Kg	94%		80-120
Chromium	92.80	100.0	mg/Kg	93%		80-120
Cobalt	97.89	100.0	mg/Kg	98%		80-120
Copper	91.81	100.0	mg/Kg	92%		80-120
Lead	97.63	100.0	mg/Kg	98%		80-120
Molybdenum	98.79	100.0	mg/Kg	99%		80-120
Nickel	97.99	100.0	mg/Kg	98%		80-120
Selenium	83.92	100.0	mg/Kg	84%		80-120
Silver	43.59	50.00	mg/Kg	87%		80-120
Thallium	101.4	100.0	mg/Kg	101%		80-120
Vanadium	96.03	100.0	mg/Kg	96%		80-120
Zinc	101.4	100.0	mg/Kg	101%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC944088	Batch:	274063
Matrix (Source ID):	Soil (450593-001)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC944088 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	37.32	ND	92.59	mg/Kg	40%	*	75-125	0.93
Arsenic	101.3	3.112	92.59	mg/Kg	106%		75-125	0.93
Barium	188.1	113.2	92.59	mg/Kg	81%		75-125	0.93
Beryllium	93.54	0.5298	92.59	mg/Kg	100%		75-125	0.93
Cadmium	95.24	ND	92.59	mg/Kg	103%		75-125	0.93
Chromium	113.9	24.22	92.59	mg/Kg	97%		75-125	0.93
Cobalt	100.1	8.946	92.59	mg/Kg	98%		75-125	0.93
Copper	107.6	14.54	92.59	mg/Kg	101%		75-125	0.93
Lead	93.85	5.844	92.59	mg/Kg	95%		75-125	0.93
Molybdenum	95.07	ND	92.59	mg/Kg	103%		75-125	0.93
Nickel	106.4	16.09	92.59	mg/Kg	98%		75-125	0.93
Selenium	86.02	ND	92.59	mg/Kg	93%		75-125	0.93
Silver	44.05	ND	46.30	mg/Kg	95%		75-125	0.93
Thallium	91.35	ND	92.59	mg/Kg	99%		75-125	0.93
Vanadium	140.0	43.86	92.59	mg/Kg	104%		75-125	0.93
Zinc	135.6	57.91	92.59	mg/Kg	84%		75-125	0.93

Type:	Matrix Spike Duplicate	Lab ID:	QC944089	Batch:	274063
Matrix (Source ID):	Soil (450593-001)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC944089 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	38.85	ND	99.01	mg/Kg	39%	*	75-125	3	41	0.99
Arsenic	106.4	3.112	99.01	mg/Kg	104%		75-125	2	35	0.99
Barium	288.6	113.2	99.01	mg/Kg	177%	*	75-125	39*	20	0.99
Beryllium	98.87	0.5298	99.01	mg/Kg	99%		75-125	1	20	0.99
Cadmium	99.34	ND	99.01	mg/Kg	100%		75-125	2	20	0.99
Chromium	120.7	24.22	99.01	mg/Kg	97%		75-125	0	20	0.99
Cobalt	105.4	8.946	99.01	mg/Kg	97%		75-125	1	20	0.99
Copper	113.6	14.54	99.01	mg/Kg	100%		75-125	0	20	0.99
Lead	98.98	5.844	99.01	mg/Kg	94%		75-125	1	20	0.99
Molybdenum	99.19	ND	99.01	mg/Kg	100%		75-125	2	20	0.99
Nickel	112.2	16.09	99.01	mg/Kg	97%		75-125	0	20	0.99
Selenium	89.81	ND	99.01	mg/Kg	91%		75-125	2	20	0.99
Silver	46.13	ND	49.50	mg/Kg	93%		75-125	2	20	0.99
Thallium	95.04	ND	99.01	mg/Kg	96%		75-125	3	20	0.99
Vanadium	150.7	43.86	99.01	mg/Kg	108%		75-125	3	20	0.99
Zinc	146.7	57.91	99.01	mg/Kg	90%		75-125	4	20	0.99

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC944121**	**Batch: 274073**
Matrix: Soil	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC944121 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C6-C10	ND		mg/Kg	10	09/16/21	09/17/21
DRO C10-C28	ND		mg/Kg	10	09/16/21	09/17/21
ORO C28-C44	ND		mg/Kg	20	09/16/21	09/17/21
Surrogates				**Limits**		
n-Triacontane	95%		%REC	70-130	09/16/21	09/17/21

Type: Lab Control Sample	**Lab ID: QC944122**	**Batch: 274073**
Matrix: Soil	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC944122 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	244.2	250.0	mg/Kg	98%		76-122
Surrogates						
n-Triacontane	9.937	10.00	mg/Kg	99%		70-130

Type: Matrix Spike	**Lab ID: QC944123**	**Batch: 274073**
Matrix (Source ID): Soil (450596-003)	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC944123 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	3,869	4422	248.8	mg/Kg	-222%	NM	62-126	20
Surrogates								
n-Triacontane	14.66		9.950	mg/Kg		DO	70-130	20

Type: Matrix Spike Duplicate	**Lab ID: QC944124**	**Batch: 274073**
Matrix (Source ID): Soil (450596-003)	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC944124 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	2,426	4422	250.0	mg/Kg	-798%	NM	62-126	46*	35	20
Surrogates										
n-Triacontane	13.95		10.00	mg/Kg		DO	70-130			20

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC944133**	**Batch:**	**274076**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC944133 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	09/16/21	09/16/21
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	09/16/21	09/16/21
Freon 12	ND		ug/Kg	5.0	09/16/21	09/16/21
Chloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Vinyl Chloride	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromomethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Chloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Trichlorofluoromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Acetone	ND		ug/Kg	100	09/16/21	09/16/21
Freon 113	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1-Dichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
Methylene Chloride	ND		ug/Kg	5.0	09/16/21	09/16/21
MTBE	ND		ug/Kg	5.0	09/16/21	09/16/21
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1-Dichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
2-Butanone	ND		ug/Kg	100	09/16/21	09/16/21
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
2,2-Dichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Chloroform	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromochloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,1-Trichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1-Dichloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
Carbon Tetrachloride	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Benzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Trichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromodichloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Dibromomethane	ND		ug/Kg	5.0	09/16/21	09/16/21
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	09/16/21	09/16/21
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
Toluene	ND		ug/Kg	5.0	09/16/21	09/16/21
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,2-Trichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,3-Dichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Tetrachloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
Dibromochloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dibromoethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Chlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Ethylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21

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Batch QC

QC944133 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
m,p-Xylenes	ND		ug/Kg	10	09/16/21	09/16/21
o-Xylene	ND		ug/Kg	5.0	09/16/21	09/16/21
Styrene	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromoform	ND		ug/Kg	5.0	09/16/21	09/16/21
Isopropylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,3-Trichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Propylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
2-Chlorotoluene	ND		ug/Kg	5.0	09/16/21	09/16/21
4-Chlorotoluene	ND		ug/Kg	5.0	09/16/21	09/16/21
tert-Butylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
sec-Butylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
para-Isopropyl Toluene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,3-Dichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,4-Dichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
n-Butylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Hexachlorobutadiene	ND		ug/Kg	5.0	09/16/21	09/16/21
Naphthalene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Xylene (total)	ND		ug/Kg	5.0	09/16/21	09/16/21
Surrogates				**Limits**		
Dibromofluoromethane	96%		%REC	70-130	09/16/21	09/16/21
1,2-Dichloroethane-d4	104%		%REC	70-145	09/16/21	09/16/21
Toluene-d8	103%		%REC	70-145	09/16/21	09/16/21
Bromofluorobenzene	96%		%REC	70-145	09/16/21	09/16/21

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Batch QC

Type: Lab Control Sample	Lab ID: QC944134	Batch: 274076
Matrix: Soil	Method: EPA 8260B	Prep Method: EPA 5035

QC944134 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	52.68	50.00	ug/Kg	105%		70-131
MTBE	57.25	50.00	ug/Kg	115%		69-130
Benzene	49.96	50.00	ug/Kg	100%		70-130
Trichloroethene	50.31	50.00	ug/Kg	101%		70-130
Toluene	53.41	50.00	ug/Kg	107%		70-130
Chlorobenzene	52.11	50.00	ug/Kg	104%		70-130
Surrogates						
Dibromofluoromethane	48.41	50.00	ug/Kg	97%		70-130
1,2-Dichloroethane-d4	49.88	50.00	ug/Kg	100%		70-145
Toluene-d8	52.59	50.00	ug/Kg	105%		70-145
Bromofluorobenzene	50.65	50.00	ug/Kg	101%		70-145

Type: Lab Control Sample Duplicate	Lab ID: QC944135	Batch: 274076
Matrix: Soil	Method: EPA 8260B	Prep Method: EPA 5035

QC944135 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	47.62	50.00	ug/Kg	95%		70-131	10	33
MTBE	51.91	50.00	ug/Kg	104%		69-130	10	30
Benzene	46.64	50.00	ug/Kg	93%		70-130	7	30
Trichloroethene	43.70	50.00	ug/Kg	87%		70-130	14	30
Toluene	48.45	50.00	ug/Kg	97%		70-130	10	30
Chlorobenzene	47.38	50.00	ug/Kg	95%		70-130	10	30
Surrogates								
Dibromofluoromethane	49.13	50.00	ug/Kg	98%		70-130		
1,2-Dichloroethane-d4	49.16	50.00	ug/Kg	98%		70-145		
Toluene-d8	51.69	50.00	ug/Kg	103%		70-145		
Bromofluorobenzene	49.34	50.00	ug/Kg	99%		70-145		

Type: Blank	Lab ID: QC944231	Batch: 274112
Matrix: Soil	Method: EPA 7471A	Prep Method: METHOD

QC944231 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	09/16/21	09/17/21

Type: Lab Control Sample	Lab ID: QC944232	Batch: 274112
Matrix: Soil	Method: EPA 7471A	Prep Method: METHOD

QC944232 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.8546	0.8333	mg/Kg	103%		80-120

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Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC944233**	**Batch:**	**274112**
Matrix (Source ID):	**Soil (450593-001)**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC944233 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.9426	ND	0.9259	mg/Kg	102%		75-125	1.1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC944234**	**Batch:**	**274112**
Matrix (Source ID):	**Soil (450593-001)**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC944234 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	0.9009	ND	0.8772	mg/Kg	103%		75-125	1	20	1.1

#	CCV drift outside limits; average CCV drift within limits per method requirements
*	Value is outside QC limits
DO	Diluted Out
ND	Not Detected
NM	Not Meaningful

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

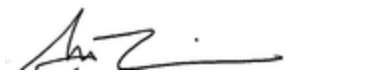
Lab Job Number: 450596
Report Level: II
Report Date: 09/24/2021

Analytical Report *prepared for:*

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Location: Artevel Phase II 21-16-121-02

Authorized for release by:



Jim Lin, Service Center Manager
Jim.lin@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE Member

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Sample Summary

Mike Van Fleet Converse Consultants 717 S. Myrtle Ave. Monrovia, CA 91016		Lab Job #: Location: Date Received:	450596 Artevel Phase II 21-16-121-02 09/15/21

Sample ID	Lab ID	Collected	Matrix
UST-1-5	450596-001	09/15/21 10:03	Soil
UST-1-10	450596-002	09/15/21 10:05	Soil
UST-1-15	450596-003	09/15/21 10:06	Soil
UST-1-20	450596-004	09/15/21 10:07	Soil
UST-1-25	450596-005	09/15/21 10:08	Soil
UST-2-5	450596-006	09/15/21 10:52	Soil
UST-2-10	450596-007	09/15/21 10:53	Soil
UST-2-15	450596-008	09/15/21 10:54	Soil
UST-2-20	450596-009	09/15/21 10:57	Soil
UST-2-25	450596-010	09/15/21 10:59	Soil

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Case Narrative

Converse Consultants	Lab Job Number: 450596
717 S. Myrtle Ave.	Location: Artevel Phase II 21-16-121-02
Monrovia, CA 91016	Date Received: 09/15/21
Mike Van Fleet	

This data package contains sample and QC results for eight soil samples, requested for the above referenced project on 09/15/21. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015M):

High RPD was observed for diesel C10-C28 in the MS/MSD of UST-1-15 (lab # 450596-003); the high RPD was not associated with any reported results. Low surrogate recovery was observed for n-triacontane in the MS for batch 274420; the parent sample was not a project sample. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

UST-1-15 (lab # 450596-003) was diluted due to high hydrocarbons. No other analytical problems were encountered.

Metals (EPA 6010B and EPA 7471A):

Low recoveries were observed for antimony in the MS/MSD of AST-1-2 (lab # 450593-001); the associated RPD was within limits. High recovery was observed for barium in the MSD of AST-1-2 (lab # 450593-001). High RPD was also observed for barium in the MS/MSD of AST-1-2 (lab # 450593-001). No other analytical problems were encountered.

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Chain of Custody Record Lab No: 450594 Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	✓	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

<<< Select a Laboratory >>>
#N/A Barkeley Ave, Orange
#N/A

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Converse Consultants	Name:	Bartlett Phase II
Report To:	Michael Van Fleet	Number:	21-16-121-02
Email:	mvanfleet@conversconsultants.com	P.O. #:	
Address:	717 S. Myrtle Avenue	Address:	Euclid & Braefo Ave
	Monrovia, CA 91016		
Phone:	626-930-1200	Global ID:	
Fax:	626-930-1212	Sampled By:	Keaspar Wittlinger

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	TPH-cc - 8015M	metals - 6010B/7471A	VOCs - 8260B	Test Instructions / Comments
1	USF-1-5	9/15/21	10:03	S	1 above/Zero-jee		✓	✓	✓	
2	USF-1-10		10:05				✓	✓	✓	
3	USF-1-15		10:06				✓	✓	✓	
4	USF-1-20		10:07							Hold
5	USF-1-25		10:08							Hold
6	USF-2-5		10:52				✓	✓	✓	
7	USF-2-10		10:53				✓	✓	✓	
8	USF-2-15		10:54				✓	✓	✓	
9	USF-2-20		10:57							Hold
10	USF-2-25		10:59							Hold

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Keaspar Wittlinger	Converse Consultants	9/15/21 1647
[1] Received By:		Zoey PADILLA	EA/GL	9/15/21 1647
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

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SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Converse Consultants Project: _____

Date Received: 9/15/21 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 8.6 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.2 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____/_____

Project Manager's response:

Completed By: _____ Date: 9/15/21

Jim Lin

From: Michael A. Van Fleet <mvanfleet@converseconsultants.com> on behalf of Michael A. Van Fleet
Sent: Wednesday, September 22, 2021 10:21 AM
To: Jim.lin@enthalpy.com
Cc: Kaspar Wittlinger; Laura A. Tanaka
Subject: [EXTERNAL] RE: Artevel Phase II 21-16-121-02 - Enthalpy Data (450596) (Invoice CINV-056087)

Jim,
Please have archived samples UST-1-20 and UST-1-25 analyzed for THP in the diesel range on a 2-day TAT.
Thanks,
Mike

From: Jim Lin <Jim.lin@enthalpy.com>
Sent: Wednesday, September 22, 2021 10:03 AM
To: Michael A. Van Fleet <mvanfleet@converseconsultants.com>
Subject: Artevel Phase II 21-16-121-02 - Enthalpy Data (450596) (Invoice CINV-056087)

Hi Michael Van,

Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in the EDD.

Please let us know if you need to release sample(s) from HOLD.

Please find attached the following files:
? Invoice
? PDF Deliverable
? Standard Pivot Table, Compound EDD (450596_standard_excel_pivot_compound.zip)

Email was also sent to: jim.lin@enthalpy.com

Jim Lin
Service Center Manager
931 W. Barkley Ave., Orange, CA 92868
O: 714-771-6900 M: 818-319-2359
Jim.Lin@enthalpy.com

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Analysis Results for 450596

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Lab Job #: 450596
Location: Artevel Phase II 21-16-121-02
Date Received: 09/15/21

Sample ID: UST-1-5 **Lab ID: 450596-001** **Collected: 09/15/21 10:03**
Matrix: Soil

450596-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.98	274063	09/16/21	09/17/21	KLN
Arsenic	**3.0**		mg/Kg	0.98	0.98	274063	09/16/21	09/17/21	KLN
Barium	**89**		mg/Kg	0.98	0.98	274063	09/16/21	09/17/21	KLN
Beryllium	**0.49**		mg/Kg	0.49	0.98	274063	09/16/21	09/17/21	KLN
Cadmium	ND		mg/Kg	0.49	0.98	274063	09/16/21	09/17/21	KLN
Chromium	**22**		mg/Kg	0.98	0.98	274063	09/16/21	09/17/21	KLN
Cobalt	**9.1**		mg/Kg	0.49	0.98	274063	09/16/21	09/17/21	KLN
Copper	**14**		mg/Kg	0.98	0.98	274063	09/16/21	09/17/21	KLN
Lead	**12**		mg/Kg	0.98	0.98	274063	09/16/21	09/17/21	KLN
Molybdenum	ND		mg/Kg	0.98	0.98	274063	09/16/21	09/17/21	KLN
Nickel	**15**		mg/Kg	0.98	0.98	274063	09/16/21	09/17/21	KLN
Selenium	ND		mg/Kg	2.9	0.98	274063	09/16/21	09/17/21	KLN
Silver	ND		mg/Kg	0.49	0.98	274063	09/16/21	09/17/21	KLN
Thallium	ND		mg/Kg	2.9	0.98	274063	09/16/21	09/17/21	KLN
Vanadium	**43**		mg/Kg	0.98	0.98	274063	09/16/21	09/17/21	KLN
Zinc	**48**		mg/Kg	4.9	0.98	274063	09/16/21	09/17/21	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	274112	09/16/21	09/17/21	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
DRO C10-C28	**16**		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
ORO C28-C44	ND		mg/Kg	20	1	274073	09/16/21	09/17/21	MES
Surrogates				**Limits**					
n-Triacontane	92%		%REC	70-130	1	274073	09/16/21	09/17/21	MES
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Freon 12	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Chloromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Vinyl Chloride	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromomethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Chloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Trichlorofluoromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Acetone	ND		ug/Kg	93	0.93	274076	09/17/21	09/17/21	RAO
Freon 113	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Methylene Chloride	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
MTBE	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
trans-1,2-Dichloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
2-Butanone	ND		ug/Kg	93	0.93	274076	09/17/21	09/17/21	RAO
cis-1,2-Dichloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
2,2-Dichloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Chloroform	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromochloromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1,1-Trichloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1-Dichloropropene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Carbon Tetrachloride	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Benzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Trichloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dichloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromodichloromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Dibromomethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
4-Methyl-2-Pentanone	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
cis-1,3-Dichloropropene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Toluene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
trans-1,3-Dichloropropene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1,2-Trichloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,3-Dichloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Tetrachloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Dibromochloromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dibromoethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Chlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Ethylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
m,p-Xylenes	ND		ug/Kg	9.3	0.93	274076	09/17/21	09/17/21	RAO
o-Xylene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Styrene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromoform	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Isopropylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2,3-Trichloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Propylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,3,5-Trimethylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
2-Chlorotoluene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chlorotoluene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
tert-Butylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2,4-Trimethylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
sec-Butylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
para-Isopropyl Toluene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,3-Dichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,4-Dichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
n-Butylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2,4-Trichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Hexachlorobutadiene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Naphthalene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2,3-Trichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Xylene (total)	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Surrogates				**Limits**					
Dibromofluoromethane	96%		%REC	70-145	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane-d4	101%		%REC	70-145	0.93	274076	09/17/21	09/17/21	RAO
Toluene-d8	100%		%REC	70-145	0.93	274076	09/17/21	09/17/21	RAO
Bromofluorobenzene	96%		%REC	70-145	0.93	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

Sample ID: UST-1-10	Lab ID: 450596-002	Collected: 09/15/21 10:05
	Matrix: Soil	

450596-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	3.1	1	274063	09/16/21	09/17/21	KLN
Arsenic	**6.2**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Barium	**76**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Beryllium	**0.55**		mg/Kg	0.51	1	274063	09/16/21	09/17/21	KLN
Cadmium	ND		mg/Kg	0.51	1	274063	09/16/21	09/17/21	KLN
Chromium	**22**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Cobalt	**7.5**		mg/Kg	0.51	1	274063	09/16/21	09/17/21	KLN
Copper	**18**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Lead	**5.1**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Molybdenum	ND		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Nickel	**15**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Selenium	ND		mg/Kg	3.1	1	274063	09/16/21	09/17/21	KLN
Silver	ND		mg/Kg	0.51	1	274063	09/16/21	09/17/21	KLN
Thallium	ND		mg/Kg	3.1	1	274063	09/16/21	09/17/21	KLN
Vanadium	**50**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Zinc	**46**		mg/Kg	5.1	1	274063	09/16/21	09/17/21	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	274112	09/16/21	09/17/21	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
DRO C10-C28	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
ORO C28-C44	ND		mg/Kg	20	1	274073	09/16/21	09/17/21	MES
Surrogates				**Limits**					
n-Triacontane	88%		%REC	70-130	1	274073	09/16/21	09/17/21	MES
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Freon 12	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Chloromethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Vinyl Chloride	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Bromomethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Chloroethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Trichlorofluoromethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Acetone	ND		ug/Kg	85	0.85	274076	09/17/21	09/17/21	RAO
Freon 113	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Methylene Chloride	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
MTBE	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
trans-1,2-Dichloroethene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
2-Butanone	ND		ug/Kg	85	0.85	274076	09/17/21	09/17/21	RAO
cis-1,2-Dichloroethene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
2,2-Dichloropropane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Chloroform	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Bromochloromethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,1,1-Trichloroethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,1-Dichloropropene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Carbon Tetrachloride	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Benzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Trichloroethene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,2-Dichloropropane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Bromodichloromethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Dibromomethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
4-Methyl-2-Pentanone	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
cis-1,3-Dichloropropene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Toluene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
trans-1,3-Dichloropropene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,1,2-Trichloroethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,3-Dichloropropane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Tetrachloroethene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Dibromochloromethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,2-Dibromoethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Chlorobenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Ethylbenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
m,p-Xylenes	ND		ug/Kg	8.5	0.85	274076	09/17/21	09/17/21	RAO
o-Xylene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Styrene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Bromoform	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Isopropylbenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,2,3-Trichloropropane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Propylbenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Bromobenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,3,5-Trimethylbenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
2-Chlorotoluene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
4-Chlorotoluene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
tert-Butylbenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,2,4-Trimethylbenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
sec-Butylbenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
para-Isopropyl Toluene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,4-Dichlorobenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
n-Butylbenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,2-Dichlorobenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,2,4-Trichlorobenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Hexachlorobutadiene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Naphthalene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
1,2,3-Trichlorobenzene	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Xylene (total)	ND		ug/Kg	4.2	0.85	274076	09/17/21	09/17/21	RAO
Surrogates				**Limits**					
Dibromofluoromethane	99%		%REC	70-145	0.85	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane-d4	101%		%REC	70-145	0.85	274076	09/17/21	09/17/21	RAO
Toluene-d8	99%		%REC	70-145	0.85	274076	09/17/21	09/17/21	RAO
Bromofluorobenzene	95%		%REC	70-145	0.85	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

Sample ID: UST-1-15	Lab ID: 450596-003	Collected: 09/15/21 10:06
	Matrix: Soil	

450596-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.9	0.96	274063	09/16/21	09/17/21	KLN
Arsenic	**5.4**		mg/Kg	0.96	0.96	274063	09/16/21	09/17/21	KLN
Barium	**120**		mg/Kg	0.96	0.96	274063	09/16/21	09/17/21	KLN
Beryllium	**0.58**		mg/Kg	0.48	0.96	274063	09/16/21	09/17/21	KLN
Cadmium	ND		mg/Kg	0.48	0.96	274063	09/16/21	09/17/21	KLN
Chromium	**49**		mg/Kg	0.96	0.96	274063	09/16/21	09/17/21	KLN
Cobalt	**9.8**		mg/Kg	0.48	0.96	274063	09/16/21	09/17/21	KLN
Copper	**23**		mg/Kg	0.96	0.96	274063	09/16/21	09/17/21	KLN
Lead	**7.5**		mg/Kg	0.96	0.96	274063	09/16/21	09/17/21	KLN
Molybdenum	ND		mg/Kg	0.96	0.96	274063	09/16/21	09/17/21	KLN
Nickel	**19**		mg/Kg	0.96	0.96	274063	09/16/21	09/17/21	KLN
Selenium	ND		mg/Kg	2.9	0.96	274063	09/16/21	09/17/21	KLN
Silver	ND		mg/Kg	0.48	0.96	274063	09/16/21	09/17/21	KLN
Thallium	ND		mg/Kg	2.9	0.96	274063	09/16/21	09/17/21	KLN
Vanadium	**72**		mg/Kg	0.96	0.96	274063	09/16/21	09/17/21	KLN
Zinc	**73**		mg/Kg	4.8	0.96	274063	09/16/21	09/17/21	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.14	1	274112	09/16/21	09/17/21	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	200	20	274073	09/16/21	09/17/21	MES
DRO C10-C28	**4,400**		mg/Kg	200	20	274073	09/16/21	09/17/21	MES
ORO C28-C44	ND		mg/Kg	400	20	274073	09/16/21	09/17/21	MES
Surrogates				**Limits**					
n-Triacontane		DO	%REC	70-130	20	274073	09/16/21	09/17/21	MES
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
cis-1,4-Dichloro-2-butene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
trans-1,4-Dichloro-2-butene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Freon 12	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Chloromethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Vinyl Chloride	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Bromomethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Chloroethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Trichlorofluoromethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Acetone	ND		ug/Kg	9,600	96	274017	09/16/21	09/16/21	RAO
Freon 113	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,1-Dichloroethene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Methylene Chloride	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
MTBE	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
trans-1,2-Dichloroethene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,1-Dichloroethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
2-Butanone	ND		ug/Kg	9,600	96	274017	09/16/21	09/16/21	RAO
cis-1,2-Dichloroethene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
2,2-Dichloropropane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Chloroform	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Bromochloromethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,1,1-Trichloroethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,1-Dichloropropene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Carbon Tetrachloride	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,2-Dichloroethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Benzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Trichloroethene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,2-Dichloropropane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Bromodichloromethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Dibromomethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
4-Methyl-2-Pentanone	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
cis-1,3-Dichloropropene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Toluene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
trans-1,3-Dichloropropene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,1,2-Trichloroethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,3-Dichloropropane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Tetrachloroethene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Dibromochloromethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,2-Dibromoethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Chlorobenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,1,1,2-Tetrachloroethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Ethylbenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
m,p-Xylenes	ND		ug/Kg	960	96	274017	09/16/21	09/16/21	RAO
o-Xylene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Styrene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Bromoform	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Isopropylbenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,1,2,2-Tetrachloroethane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,2,3-Trichloropropane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Propylbenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Bromobenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,3,5-Trimethylbenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
2-Chlorotoluene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
4-Chlorotoluene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
tert-Butylbenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,2,4-Trimethylbenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
sec-Butylbenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
para-Isopropyl Toluene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,4-Dichlorobenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
n-Butylbenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,2-Dichlorobenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,2,4-Trichlorobenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Hexachlorobutadiene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Naphthalene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
1,2,3-Trichlorobenzene	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Xylene (total)	ND		ug/Kg	480	96	274017	09/16/21	09/16/21	RAO
Surrogates				**Limits**					
Dibromofluoromethane	95%		%REC	70-145	96	274017	09/16/21	09/16/21	RAO
1,2-Dichloroethane-d4	92%		%REC	70-145	96	274017	09/16/21	09/16/21	RAO
Toluene-d8	107%		%REC	70-145	96	274017	09/16/21	09/16/21	RAO
Bromofluorobenzene	96%		%REC	70-145	96	274017	09/16/21	09/16/21	RAO

Sample ID: UST-1-20 **Lab ID: 450596-004** **Collected: 09/15/21 10:07**
Matrix: Soil

450596-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	10	1	274420	09/22/21	09/23/21	TJW
DRO C10-C28	ND		mg/Kg	10	1	274420	09/22/21	09/23/21	TJW
ORO C28-C44	ND		mg/Kg	20	1	274420	09/22/21	09/23/21	TJW
Surrogates				**Limits**					
n-Triacontane	92%		%REC	70-130	1	274420	09/22/21	09/23/21	TJW

Sample ID: UST-1-25 **Lab ID: 450596-005** **Collected: 09/15/21 10:08**
Matrix: Soil

450596-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	10	1	274420	09/22/21	09/23/21	TJW
DRO C10-C28	ND		mg/Kg	10	1	274420	09/22/21	09/23/21	TJW
ORO C28-C44	ND		mg/Kg	20	1	274420	09/22/21	09/23/21	TJW
Surrogates				**Limits**					
n-Triacontane	90%		%REC	70-130	1	274420	09/22/21	09/23/21	TJW

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

Sample ID: UST-2-5	Lab ID: 450596-006	Collected: 09/15/21 10:52
	Matrix: Soil	

450596-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	3.0	0.99	274063	09/16/21	09/17/21	KLN
Arsenic	**2.6**		mg/Kg	0.99	0.99	274063	09/16/21	09/17/21	KLN
Barium	**100**		mg/Kg	0.99	0.99	274063	09/16/21	09/17/21	KLN
Beryllium	**0.51**		mg/Kg	0.50	0.99	274063	09/16/21	09/17/21	KLN
Cadmium	ND		mg/Kg	0.50	0.99	274063	09/16/21	09/17/21	KLN
Chromium	**23**		mg/Kg	0.99	0.99	274063	09/16/21	09/17/21	KLN
Cobalt	**8.5**		mg/Kg	0.50	0.99	274063	09/16/21	09/17/21	KLN
Copper	**15**		mg/Kg	0.99	0.99	274063	09/16/21	09/17/21	KLN
Lead	**9.1**		mg/Kg	0.99	0.99	274063	09/16/21	09/17/21	KLN
Molybdenum	ND		mg/Kg	0.99	0.99	274063	09/16/21	09/17/21	KLN
Nickel	**15**		mg/Kg	0.99	0.99	274063	09/16/21	09/17/21	KLN
Selenium	ND		mg/Kg	3.0	0.99	274063	09/16/21	09/17/21	KLN
Silver	ND		mg/Kg	0.50	0.99	274063	09/16/21	09/17/21	KLN
Thallium	ND		mg/Kg	3.0	0.99	274063	09/16/21	09/17/21	KLN
Vanadium	**40**		mg/Kg	0.99	0.99	274063	09/16/21	09/17/21	KLN
Zinc	**61**		mg/Kg	5.0	0.99	274063	09/16/21	09/17/21	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	274112	09/16/21	09/17/21	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
DRO C10-C28	ND		mg/Kg	10	1	274073	09/16/21	09/17/21	MES
ORO C28-C44	ND		mg/Kg	20	1	274073	09/16/21	09/17/21	MES
Surrogates				**Limits**					
n-Triacontane	89%		%REC	70-130	1	274073	09/16/21	09/17/21	MES
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Freon 12	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Chloromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Vinyl Chloride	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromomethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Chloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Trichlorofluoromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Acetone	ND		ug/Kg	93	0.93	274076	09/17/21	09/17/21	RAO
Freon 113	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Methylene Chloride	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
MTBE	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
trans-1,2-Dichloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
2-Butanone	ND		ug/Kg	93	0.93	274076	09/17/21	09/17/21	RAO
cis-1,2-Dichloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
2,2-Dichloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Chloroform	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromochloromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1,1-Trichloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1-Dichloropropene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Carbon Tetrachloride	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Benzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Trichloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dichloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromodichloromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Dibromomethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
4-Methyl-2-Pentanone	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
cis-1,3-Dichloropropene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Toluene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
trans-1,3-Dichloropropene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1,2-Trichloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,3-Dichloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Tetrachloroethene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Dibromochloromethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dibromoethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Chlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Ethylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
m,p-Xylenes	ND		ug/Kg	9.3	0.93	274076	09/17/21	09/17/21	RAO
o-Xylene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Styrene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromoform	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Isopropylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2,3-Trichloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Propylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Bromobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,3,5-Trimethylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
2-Chlorotoluene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
4-Chlorotoluene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
tert-Butylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2,4-Trimethylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
sec-Butylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
para-Isopropyl Toluene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,4-Dichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
n-Butylbenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2,4-Trichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Hexachlorobutadiene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Naphthalene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
1,2,3-Trichlorobenzene	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Xylene (total)	ND		ug/Kg	4.6	0.93	274076	09/17/21	09/17/21	RAO
Surrogates				**Limits**					
Dibromofluoromethane	97%		%REC	70-145	0.93	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane-d4	107%		%REC	70-145	0.93	274076	09/17/21	09/17/21	RAO
Toluene-d8	99%		%REC	70-145	0.93	274076	09/17/21	09/17/21	RAO
Bromofluorobenzene	93%		%REC	70-145	0.93	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450596

Sample ID: UST-2-10	Lab ID: 450596-007	Collected: 09/15/21 10:53
	Matrix: Soil	

450596-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	3.1	1	274063	09/16/21	09/17/21	KLN
Arsenic	**7.5**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Barium	**99**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Beryllium	ND		mg/Kg	0.52	1	274063	09/16/21	09/17/21	KLN
Cadmium	ND		mg/Kg	0.52	1	274063	09/16/21	09/17/21	KLN
Chromium	**20**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Cobalt	**8.6**		mg/Kg	0.52	1	274063	09/16/21	09/17/21	KLN
Copper	**18**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Lead	**4.7**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Molybdenum	ND		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Nickel	**16**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Selenium	ND		mg/Kg	3.1	1	274063	09/16/21	09/17/21	KLN
Silver	ND		mg/Kg	0.52	1	274063	09/16/21	09/17/21	KLN
Thallium	ND		mg/Kg	3.1	1	274063	09/16/21	09/17/21	KLN
Vanadium	**53**		mg/Kg	1.0	1	274063	09/16/21	09/17/21	KLN
Zinc	**45**		mg/Kg	5.2	1	274063	09/16/21	09/17/21	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	274112	09/16/21	09/17/21	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	9.9	0.99	274073	09/16/21	09/17/21	MES
DRO C10-C28	**73**		mg/Kg	9.9	0.99	274073	09/16/21	09/17/21	MES
ORO C28-C44	ND		mg/Kg	20	0.99	274073	09/16/21	09/17/21	MES
Surrogates				**Limits**					
n-Triacontane	96%		%REC	70-130	0.99	274073	09/16/21	09/17/21	MES
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Freon 12	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Chloromethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Vinyl Chloride	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Bromomethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Chloroethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Trichlorofluoromethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Acetone	ND		ug/Kg	86	0.86	274076	09/17/21	09/17/21	RAO
Freon 113	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Methylene Chloride	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
MTBE	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
trans-1,2-Dichloroethene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
2-Butanone	ND		ug/Kg	86	0.86	274076	09/17/21	09/17/21	RAO
cis-1,2-Dichloroethene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
2,2-Dichloropropane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Chloroform	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Bromochloromethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,1,1-Trichloroethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,1-Dichloropropene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Carbon Tetrachloride	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Benzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Trichloroethene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,2-Dichloropropane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Bromodichloromethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Dibromomethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
4-Methyl-2-Pentanone	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
cis-1,3-Dichloropropene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Toluene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
trans-1,3-Dichloropropene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,1,2-Trichloroethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,3-Dichloropropane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Tetrachloroethene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Dibromochloromethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,2-Dibromoethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Chlorobenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Ethylbenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
m,p-Xylenes	ND		ug/Kg	8.6	0.86	274076	09/17/21	09/17/21	RAO
o-Xylene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Styrene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Bromoform	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Isopropylbenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,2,3-Trichloropropane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Propylbenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Bromobenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,3,5-Trimethylbenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
2-Chlorotoluene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
4-Chlorotoluene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
tert-Butylbenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,2,4-Trimethylbenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
sec-Butylbenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
para-Isopropyl Toluene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,4-Dichlorobenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
n-Butylbenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,2-Dichlorobenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,2,4-Trichlorobenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Hexachlorobutadiene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Naphthalene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
1,2,3-Trichlorobenzene	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Xylene (total)	ND		ug/Kg	4.3	0.86	274076	09/17/21	09/17/21	RAO
Surrogates				**Limits**					
Dibromofluoromethane	104%		%REC	70-145	0.86	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane-d4	102%		%REC	70-145	0.86	274076	09/17/21	09/17/21	RAO
Toluene-d8	97%		%REC	70-145	0.86	274076	09/17/21	09/17/21	RAO
Bromofluorobenzene	97%		%REC	70-145	0.86	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

Sample ID: UST-2-15	Lab ID: 450596-008	Collected: 09/15/21 10:54
	Matrix: Soil	

450596-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND		mg/Kg	2.8	0.93	274063	09/16/21	09/17/21	KLN
Arsenic	**4.3**		mg/Kg	0.93	0.93	274063	09/16/21	09/17/21	KLN
Barium	**130**		mg/Kg	0.93	0.93	274063	09/16/21	09/17/21	KLN
Beryllium	**0.85**		mg/Kg	0.47	0.93	274063	09/16/21	09/17/21	KLN
Cadmium	ND		mg/Kg	0.47	0.93	274063	09/16/21	09/17/21	KLN
Chromium	**32**		mg/Kg	0.93	0.93	274063	09/16/21	09/17/21	KLN
Cobalt	**17**		mg/Kg	0.47	0.93	274063	09/16/21	09/17/21	KLN
Copper	**29**		mg/Kg	0.93	0.93	274063	09/16/21	09/17/21	KLN
Lead	**9.3**		mg/Kg	0.93	0.93	274063	09/16/21	09/17/21	KLN
Molybdenum	ND		mg/Kg	0.93	0.93	274063	09/16/21	09/17/21	KLN
Nickel	**24**		mg/Kg	0.93	0.93	274063	09/16/21	09/17/21	KLN
Selenium	ND		mg/Kg	2.8	0.93	274063	09/16/21	09/17/21	KLN
Silver	ND		mg/Kg	0.47	0.93	274063	09/16/21	09/17/21	KLN
Thallium	ND		mg/Kg	2.8	0.93	274063	09/16/21	09/17/21	KLN
Vanadium	**82**		mg/Kg	0.93	0.93	274063	09/16/21	09/17/21	KLN
Zinc	**76**		mg/Kg	4.7	0.93	274063	09/16/21	09/17/21	KLN
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	274199	09/17/21	09/20/21	TNN
Method: EPA 8015M Prep Method: EPA 3580									
GRO C6-C10	ND		mg/Kg	50	5	274073	09/16/21	09/20/21	MES
DRO C10-C28	**1,200**		mg/Kg	50	5	274073	09/16/21	09/20/21	MES
ORO C28-C44	ND		mg/Kg	100	5	274073	09/16/21	09/20/21	MES
Surrogates				**Limits**					
n-Triacontane	94%		%REC	70-130	5	274073	09/16/21	09/20/21	MES
Method: EPA 8260B Prep Method: EPA 5035									
3-Chloropropene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Freon 12	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Chloromethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Vinyl Chloride	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Bromomethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Chloroethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Trichlorofluoromethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Acetone	ND		ug/Kg	96	0.96	274076	09/17/21	09/17/21	RAO
Freon 113	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450596

450596-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Methylene Chloride	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
MTBE	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
trans-1,2-Dichloroethene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,1-Dichloroethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
2-Butanone	ND		ug/Kg	96	0.96	274076	09/17/21	09/17/21	RAO
cis-1,2-Dichloroethene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
2,2-Dichloropropane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Chloroform	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Bromochloromethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,1,1-Trichloroethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,1-Dichloropropene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Carbon Tetrachloride	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Benzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Trichloroethene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,2-Dichloropropane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Bromodichloromethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Dibromomethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
4-Methyl-2-Pentanone	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
cis-1,3-Dichloropropene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Toluene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
trans-1,3-Dichloropropene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,1,2-Trichloroethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,3-Dichloropropane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Tetrachloroethene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Dibromochloromethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,2-Dibromoethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Chlorobenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Ethylbenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
m,p-Xylenes	ND		ug/Kg	9.6	0.96	274076	09/17/21	09/17/21	RAO
o-Xylene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Styrene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Bromoform	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Isopropylbenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,2,3-Trichloropropane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Propylbenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Bromobenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,3,5-Trimethylbenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
2-Chlorotoluene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
4-Chlorotoluene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
tert-Butylbenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,2,4-Trimethylbenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
sec-Butylbenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
para-Isopropyl Toluene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO

Results for any subcontracted analyses are not included in this section.

Analysis Results for 450596

450596-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichlorobenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,4-Dichlorobenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
n-Butylbenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,2-Dichlorobenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,2,4-Trichlorobenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Hexachlorobutadiene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Naphthalene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
1,2,3-Trichlorobenzene	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Xylene (total)	ND		ug/Kg	4.8	0.96	274076	09/17/21	09/17/21	RAO
Surrogates				**Limits**					
Dibromofluoromethane	97%		%REC	70-145	0.96	274076	09/17/21	09/17/21	RAO
1,2-Dichloroethane-d4	99%		%REC	70-145	0.96	274076	09/17/21	09/17/21	RAO
Toluene-d8	100%		%REC	70-145	0.96	274076	09/17/21	09/17/21	RAO
Bromofluorobenzene	97%		%REC	70-145	0.96	274076	09/17/21	09/17/21	RAO

DO Diluted Out
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC943977	**Batch:** 274017
Matrix: Soil	**Method:** EPA 8260B	**Prep Method:** EPA 5035

QC943977 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	09/16/21	09/16/21
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	09/16/21	09/16/21
Freon 12	ND		ug/Kg	5.0	09/16/21	09/16/21
Chloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Vinyl Chloride	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromomethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Chloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Trichlorofluoromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Acetone	ND		ug/Kg	100	09/16/21	09/16/21
Freon 113	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1-Dichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
Methylene Chloride	ND		ug/Kg	5.0	09/16/21	09/16/21
MTBE	ND		ug/Kg	5.0	09/16/21	09/16/21
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1-Dichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
2-Butanone	ND		ug/Kg	100	09/16/21	09/16/21
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
2,2-Dichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Chloroform	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromochloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,1-Trichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1-Dichloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
Carbon Tetrachloride	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Benzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Trichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromodichloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Dibromomethane	ND		ug/Kg	5.0	09/16/21	09/16/21
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	09/16/21	09/16/21
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
Toluene	ND		ug/Kg	5.0	09/16/21	09/16/21
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,2-Trichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,3-Dichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Tetrachloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
Dibromochloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dibromoethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Chlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Ethylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21

ENTHALPY ANALYTICAL

Batch QC

QC943977 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
m,p-Xylenes	ND		ug/Kg	10	09/16/21	09/16/21
o-Xylene	ND		ug/Kg	5.0	09/16/21	09/16/21
Styrene	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromoform	ND		ug/Kg	5.0	09/16/21	09/16/21
Isopropylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,3-Trichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Propylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
2-Chlorotoluene	ND		ug/Kg	5.0	09/16/21	09/16/21
4-Chlorotoluene	ND		ug/Kg	5.0	09/16/21	09/16/21
tert-Butylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
sec-Butylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
para-Isopropyl Toluene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,3-Dichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,4-Dichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
n-Butylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Hexachlorobutadiene	ND		ug/Kg	5.0	09/16/21	09/16/21
Naphthalene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Xylene (total)	ND		ug/Kg	5.0	09/16/21	09/16/21
Surrogates				**Limits**		
Dibromofluoromethane	98%		%REC	70-130	09/16/21	09/16/21
1,2-Dichloroethane-d4	102%		%REC	70-145	09/16/21	09/16/21
Toluene-d8	101%		%REC	70-145	09/16/21	09/16/21
Bromofluorobenzene	95%		%REC	70-145	09/16/21	09/16/21

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC943978	Batch: 274017
Matrix: Soil	Method: EPA 8260B	Prep Method: EPA 5035

QC943978 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	53.07	50.00	ug/Kg	106%		70-131
MTBE	55.39	50.00	ug/Kg	111%		69-130
Benzene	51.96	50.00	ug/Kg	104%		70-130
Trichloroethene	47.37	50.00	ug/Kg	95%		70-130
Toluene	53.05	50.00	ug/Kg	106%		70-130
Chlorobenzene	51.22	50.00	ug/Kg	102%		70-130
Surrogates						
Dibromofluoromethane	50.06	50.00	ug/Kg	100%		70-130
1,2-Dichloroethane-d4	48.95	50.00	ug/Kg	98%		70-145
Toluene-d8	50.64	50.00	ug/Kg	101%		70-145
Bromofluorobenzene	50.03	50.00	ug/Kg	100%		70-145

Type: Lab Control Sample Duplicate	Lab ID: QC943979	Batch: 274017
Matrix: Soil	Method: EPA 8260B	Prep Method: EPA 5035

QC943979 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	48.99	50.00	ug/Kg	98%		70-131	8	33
MTBE	50.83	50.00	ug/Kg	102%		69-130	9	30
Benzene	46.42	50.00	ug/Kg	93%		70-130	11	30
Trichloroethene	41.73	50.00	ug/Kg	83%		70-130	13	30
Toluene	46.20	50.00	ug/Kg	92%		70-130	14	30
Chlorobenzene	45.71	50.00	ug/Kg	91%		70-130	11	30
Surrogates								
Dibromofluoromethane	49.98	50.00	ug/Kg	100%		70-130		
1,2-Dichloroethane-d4	48.78	50.00	ug/Kg	98%		70-145		
Toluene-d8	50.29	50.00	ug/Kg	101%		70-145		
Bromofluorobenzene	47.89	50.00	ug/Kg	96%		70-145		

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC943980**	**Batch:**	**274017**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC943980 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	250	09/16/21	09/16/21
cis-1,4-Dichloro-2-butene	ND		ug/Kg	250	09/16/21	09/16/21
trans-1,4-Dichloro-2-butene	ND		ug/Kg	250	09/16/21	09/16/21
Freon 12	ND		ug/Kg	250	09/16/21	09/16/21
Chloromethane	ND		ug/Kg	250	09/16/21	09/16/21
Vinyl Chloride	ND		ug/Kg	250	09/16/21	09/16/21
Bromomethane	ND		ug/Kg	250	09/16/21	09/16/21
Chloroethane	ND		ug/Kg	250	09/16/21	09/16/21
Trichlorofluoromethane	ND		ug/Kg	250	09/16/21	09/16/21
Acetone	ND		ug/Kg	5,000	09/16/21	09/16/21
Freon 113	ND		ug/Kg	250	09/16/21	09/16/21
1,1-Dichloroethene	ND		ug/Kg	250	09/16/21	09/16/21
Methylene Chloride	ND		ug/Kg	250	09/16/21	09/16/21
MTBE	ND		ug/Kg	250	09/16/21	09/16/21
trans-1,2-Dichloroethene	ND		ug/Kg	250	09/16/21	09/16/21
1,1-Dichloroethane	ND		ug/Kg	250	09/16/21	09/16/21
2-Butanone	ND		ug/Kg	5,000	09/16/21	09/16/21
cis-1,2-Dichloroethene	ND		ug/Kg	250	09/16/21	09/16/21
2,2-Dichloropropane	ND		ug/Kg	250	09/16/21	09/16/21
Chloroform	ND		ug/Kg	250	09/16/21	09/16/21
Bromochloromethane	ND		ug/Kg	250	09/16/21	09/16/21
1,1,1-Trichloroethane	ND		ug/Kg	250	09/16/21	09/16/21
1,1-Dichloropropene	ND		ug/Kg	250	09/16/21	09/16/21
Carbon Tetrachloride	ND		ug/Kg	250	09/16/21	09/16/21
1,2-Dichloroethane	ND		ug/Kg	250	09/16/21	09/16/21
Benzene	ND		ug/Kg	250	09/16/21	09/16/21
Trichloroethene	ND		ug/Kg	250	09/16/21	09/16/21
1,2-Dichloropropane	ND		ug/Kg	250	09/16/21	09/16/21
Bromodichloromethane	ND		ug/Kg	250	09/16/21	09/16/21
Dibromomethane	ND		ug/Kg	250	09/16/21	09/16/21
4-Methyl-2-Pentanone	ND		ug/Kg	250	09/16/21	09/16/21
cis-1,3-Dichloropropene	ND		ug/Kg	250	09/16/21	09/16/21
Toluene	ND		ug/Kg	250	09/16/21	09/16/21
trans-1,3-Dichloropropene	ND		ug/Kg	250	09/16/21	09/16/21
1,1,2-Trichloroethane	ND		ug/Kg	250	09/16/21	09/16/21
1,3-Dichloropropane	ND		ug/Kg	250	09/16/21	09/16/21
Tetrachloroethene	ND		ug/Kg	250	09/16/21	09/16/21
Dibromochloromethane	ND		ug/Kg	250	09/16/21	09/16/21
1,2-Dibromoethane	ND		ug/Kg	250	09/16/21	09/16/21
Chlorobenzene	ND		ug/Kg	250	09/16/21	09/16/21
1,1,1,2-Tetrachloroethane	ND		ug/Kg	250	09/16/21	09/16/21
Ethylbenzene	ND		ug/Kg	250	09/16/21	09/16/21

ENTHALPY ANALYTICAL

Batch QC

QC943980 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
m,p-Xylenes	ND		ug/Kg	500	09/16/21	09/16/21
o-Xylene	ND		ug/Kg	250	09/16/21	09/16/21
Styrene	ND		ug/Kg	250	09/16/21	09/16/21
Bromoform	ND		ug/Kg	250	09/16/21	09/16/21
Isopropylbenzene	ND		ug/Kg	250	09/16/21	09/16/21
1,1,2,2-Tetrachloroethane	ND		ug/Kg	250	09/16/21	09/16/21
1,2,3-Trichloropropane	ND		ug/Kg	250	09/16/21	09/16/21
Propylbenzene	ND		ug/Kg	250	09/16/21	09/16/21
Bromobenzene	ND		ug/Kg	250	09/16/21	09/16/21
1,3,5-Trimethylbenzene	ND		ug/Kg	250	09/16/21	09/16/21
2-Chlorotoluene	ND		ug/Kg	250	09/16/21	09/16/21
4-Chlorotoluene	ND		ug/Kg	250	09/16/21	09/16/21
tert-Butylbenzene	ND		ug/Kg	250	09/16/21	09/16/21
1,2,4-Trimethylbenzene	ND		ug/Kg	250	09/16/21	09/16/21
sec-Butylbenzene	ND		ug/Kg	250	09/16/21	09/16/21
para-Isopropyl Toluene	ND		ug/Kg	250	09/16/21	09/16/21
1,3-Dichlorobenzene	ND		ug/Kg	250	09/16/21	09/16/21
1,4-Dichlorobenzene	ND		ug/Kg	250	09/16/21	09/16/21
n-Butylbenzene	ND		ug/Kg	250	09/16/21	09/16/21
1,2-Dichlorobenzene	ND		ug/Kg	250	09/16/21	09/16/21
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	250	09/16/21	09/16/21
1,2,4-Trichlorobenzene	ND		ug/Kg	250	09/16/21	09/16/21
Hexachlorobutadiene	ND		ug/Kg	250	09/16/21	09/16/21
Naphthalene	ND		ug/Kg	250	09/16/21	09/16/21
1,2,3-Trichlorobenzene	ND		ug/Kg	250	09/16/21	09/16/21
Xylene (total)	ND		ug/Kg	250	09/16/21	09/16/21
Surrogates				**Limits**		
Dibromofluoromethane	93%		%REC	70-130	09/16/21	09/16/21
1,2-Dichloroethane-d4	99%		%REC	70-145	09/16/21	09/16/21
Toluene-d8	101%		%REC	70-145	09/16/21	09/16/21
Bromofluorobenzene	97%		%REC	70-145	09/16/21	09/16/21

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC944086	Batch: 274063
Matrix: Miscell.	Method: EPA 6010B	Prep Method: EPA 3050B

QC944086 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Antimony	ND		mg/Kg	3.0	09/16/21	09/21/21
Arsenic	ND		mg/Kg	1.0	09/16/21	09/21/21
Barium	ND		mg/Kg	1.0	09/16/21	09/21/21
Beryllium	ND		mg/Kg	0.50	09/16/21	09/21/21
Cadmium	ND		mg/Kg	0.50	09/16/21	09/21/21
Chromium	ND		mg/Kg	1.0	09/16/21	09/21/21
Cobalt	ND		mg/Kg	0.50	09/16/21	09/21/21
Copper	ND		mg/Kg	1.0	09/16/21	09/21/21
Lead	ND		mg/Kg	1.0	09/16/21	09/21/21
Molybdenum	ND		mg/Kg	1.0	09/16/21	09/21/21
Nickel	ND		mg/Kg	1.0	09/16/21	09/21/21
Selenium	ND		mg/Kg	3.0	09/16/21	09/21/21
Silver	ND		mg/Kg	0.50	09/16/21	09/21/21
Thallium	ND		mg/Kg	3.0	09/16/21	09/21/21
Vanadium	ND		mg/Kg	1.0	09/16/21	09/21/21
Zinc	ND		mg/Kg	5.0	09/16/21	09/21/21

Type: Lab Control Sample	Lab ID: QC944087	Batch: 274063
Matrix: Miscell.	Method: EPA 6010B	Prep Method: EPA 3050B

QC944087 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	99.42	100.0	mg/Kg	99%		80-120
Arsenic	95.38	100.0	mg/Kg	95%		80-120
Barium	98.08	100.0	mg/Kg	98%		80-120
Beryllium	95.11	100.0	mg/Kg	95%		80-120
Cadmium	93.59	100.0	mg/Kg	94%		80-120
Chromium	92.80	100.0	mg/Kg	93%		80-120
Cobalt	97.89	100.0	mg/Kg	98%		80-120
Copper	91.81	100.0	mg/Kg	92%		80-120
Lead	97.63	100.0	mg/Kg	98%		80-120
Molybdenum	98.79	100.0	mg/Kg	99%		80-120
Nickel	97.99	100.0	mg/Kg	98%		80-120
Selenium	83.92	100.0	mg/Kg	84%		80-120
Silver	43.59	50.00	mg/Kg	87%		80-120
Thallium	101.4	100.0	mg/Kg	101%		80-120
Vanadium	96.03	100.0	mg/Kg	96%		80-120
Zinc	101.4	100.0	mg/Kg	101%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC944088**	**Batch:**	**274063**
Matrix (Source ID):	**Soil (450593-001)**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC944088 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	37.32	ND	92.59	mg/Kg	40%	*	75-125	0.93
Arsenic	101.3	3.112	92.59	mg/Kg	106%		75-125	0.93
Barium	188.1	113.2	92.59	mg/Kg	81%		75-125	0.93
Beryllium	93.54	0.5298	92.59	mg/Kg	100%		75-125	0.93
Cadmium	95.24	ND	92.59	mg/Kg	103%		75-125	0.93
Chromium	113.9	24.22	92.59	mg/Kg	97%		75-125	0.93
Cobalt	100.1	8.946	92.59	mg/Kg	98%		75-125	0.93
Copper	107.6	14.54	92.59	mg/Kg	101%		75-125	0.93
Lead	93.85	5.844	92.59	mg/Kg	95%		75-125	0.93
Molybdenum	95.07	ND	92.59	mg/Kg	103%		75-125	0.93
Nickel	106.4	16.09	92.59	mg/Kg	98%		75-125	0.93
Selenium	86.02	ND	92.59	mg/Kg	93%		75-125	0.93
Silver	44.05	ND	46.30	mg/Kg	95%		75-125	0.93
Thallium	91.35	ND	92.59	mg/Kg	99%		75-125	0.93
Vanadium	140.0	43.86	92.59	mg/Kg	104%		75-125	0.93
Zinc	135.6	57.91	92.59	mg/Kg	84%		75-125	0.93

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC944089**	**Batch:**	**274063**
Matrix (Source ID):	**Soil (450593-001)**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC944089 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	38.85	ND	99.01	mg/Kg	39%	*	75-125	3	41	0.99
Arsenic	106.4	3.112	99.01	mg/Kg	104%		75-125	2	35	0.99
Barium	288.6	113.2	99.01	mg/Kg	177%	*	75-125	39*	20	0.99
Beryllium	98.87	0.5298	99.01	mg/Kg	99%		75-125	1	20	0.99
Cadmium	99.34	ND	99.01	mg/Kg	100%		75-125	2	20	0.99
Chromium	120.7	24.22	99.01	mg/Kg	97%		75-125	0	20	0.99
Cobalt	105.4	8.946	99.01	mg/Kg	97%		75-125	1	20	0.99
Copper	113.6	14.54	99.01	mg/Kg	100%		75-125	0	20	0.99
Lead	98.98	5.844	99.01	mg/Kg	94%		75-125	1	20	0.99
Molybdenum	99.19	ND	99.01	mg/Kg	100%		75-125	2	20	0.99
Nickel	112.2	16.09	99.01	mg/Kg	97%		75-125	0	20	0.99
Selenium	89.81	ND	99.01	mg/Kg	91%		75-125	2	20	0.99
Silver	46.13	ND	49.50	mg/Kg	93%		75-125	2	20	0.99
Thallium	95.04	ND	99.01	mg/Kg	96%		75-125	3	20	0.99
Vanadium	150.7	43.86	99.01	mg/Kg	108%		75-125	3	20	0.99
Zinc	146.7	57.91	99.01	mg/Kg	90%		75-125	4	20	0.99

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC944121**	**Batch: 274073**
Matrix: Soil	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC944121 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C6-C10	ND		mg/Kg	10	09/16/21	09/17/21
DRO C10-C28	ND		mg/Kg	10	09/16/21	09/17/21
ORO C28-C44	ND		mg/Kg	20	09/16/21	09/17/21
Surrogates				**Limits**		
n-Triacontane	95%		%REC	70-130	09/16/21	09/17/21

Type: Lab Control Sample	**Lab ID: QC944122**	**Batch: 274073**
Matrix: Soil	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC944122 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	244.2	250.0	mg/Kg	98%		76-122
Surrogates						
n-Triacontane	9.937	10.00	mg/Kg	99%		70-130

Type: Matrix Spike	**Lab ID: QC944123**	**Batch: 274073**
Matrix (Source ID): Soil (450596-003)	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC944123 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	3,869	4422	248.8	mg/Kg	-222%	NM	62-126	20
Surrogates								
n-Triacontane	14.66		9.950	mg/Kg		DO	70-130	20

Type: Matrix Spike Duplicate	**Lab ID: QC944124**	**Batch: 274073**
Matrix (Source ID): Soil (450596-003)	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC944124 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	2,426	4422	250.0	mg/Kg	-798%	NM	62-126	46*	35	20
Surrogates										
n-Triacontane	13.95		10.00	mg/Kg		DO	70-130			20

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC944133**	**Batch:**	**274076**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC944133 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
3-Chloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	09/16/21	09/16/21
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	09/16/21	09/16/21
Freon 12	ND		ug/Kg	5.0	09/16/21	09/16/21
Chloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Vinyl Chloride	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromomethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Chloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Trichlorofluoromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Acetone	ND		ug/Kg	100	09/16/21	09/16/21
Freon 113	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1-Dichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
Methylene Chloride	ND		ug/Kg	5.0	09/16/21	09/16/21
MTBE	ND		ug/Kg	5.0	09/16/21	09/16/21
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1-Dichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
2-Butanone	ND		ug/Kg	100	09/16/21	09/16/21
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
2,2-Dichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Chloroform	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromochloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,1-Trichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1-Dichloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
Carbon Tetrachloride	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Benzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Trichloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromodichloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Dibromomethane	ND		ug/Kg	5.0	09/16/21	09/16/21
4-Methyl-2-Pentanone	ND		ug/Kg	5.0	09/16/21	09/16/21
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
Toluene	ND		ug/Kg	5.0	09/16/21	09/16/21
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,2-Trichloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,3-Dichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Tetrachloroethene	ND		ug/Kg	5.0	09/16/21	09/16/21
Dibromochloromethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dibromoethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Chlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
Ethylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21

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Batch QC

QC944133 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
m,p-Xylenes	ND		ug/Kg	10	09/16/21	09/16/21
o-Xylene	ND		ug/Kg	5.0	09/16/21	09/16/21
Styrene	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromoform	ND		ug/Kg	5.0	09/16/21	09/16/21
Isopropylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,3-Trichloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
Propylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Bromobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
2-Chlorotoluene	ND		ug/Kg	5.0	09/16/21	09/16/21
4-Chlorotoluene	ND		ug/Kg	5.0	09/16/21	09/16/21
tert-Butylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
sec-Butylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
para-Isopropyl Toluene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,3-Dichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,4-Dichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
n-Butylbenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Hexachlorobutadiene	ND		ug/Kg	5.0	09/16/21	09/16/21
Naphthalene	ND		ug/Kg	5.0	09/16/21	09/16/21
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	09/16/21	09/16/21
Xylene (total)	ND		ug/Kg	5.0	09/16/21	09/16/21
Surrogates				**Limits**		
Dibromofluoromethane	96%		%REC	70-130	09/16/21	09/16/21
1,2-Dichloroethane-d4	104%		%REC	70-145	09/16/21	09/16/21
Toluene-d8	103%		%REC	70-145	09/16/21	09/16/21
Bromofluorobenzene	96%		%REC	70-145	09/16/21	09/16/21

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC944134	Batch: 274076
Matrix: Soil	Method: EPA 8260B	Prep Method: EPA 5035

QC944134 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	52.68	50.00	ug/Kg	105%		70-131
MTBE	57.25	50.00	ug/Kg	115%		69-130
Benzene	49.96	50.00	ug/Kg	100%		70-130
Trichloroethene	50.31	50.00	ug/Kg	101%		70-130
Toluene	53.41	50.00	ug/Kg	107%		70-130
Chlorobenzene	52.11	50.00	ug/Kg	104%		70-130
Surrogates						
Dibromofluoromethane	48.41	50.00	ug/Kg	97%		70-130
1,2-Dichloroethane-d4	49.88	50.00	ug/Kg	100%		70-145
Toluene-d8	52.59	50.00	ug/Kg	105%		70-145
Bromofluorobenzene	50.65	50.00	ug/Kg	101%		70-145

Type: Lab Control Sample Duplicate	Lab ID: QC944135	Batch: 274076
Matrix: Soil	Method: EPA 8260B	Prep Method: EPA 5035

QC944135 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	47.62	50.00	ug/Kg	95%		70-131	10	33
MTBE	51.91	50.00	ug/Kg	104%		69-130	10	30
Benzene	46.64	50.00	ug/Kg	93%		70-130	7	30
Trichloroethene	43.70	50.00	ug/Kg	87%		70-130	14	30
Toluene	48.45	50.00	ug/Kg	97%		70-130	10	30
Chlorobenzene	47.38	50.00	ug/Kg	95%		70-130	10	30
Surrogates								
Dibromofluoromethane	49.13	50.00	ug/Kg	98%		70-130		
1,2-Dichloroethane-d4	49.16	50.00	ug/Kg	98%		70-145		
Toluene-d8	51.69	50.00	ug/Kg	103%		70-145		
Bromofluorobenzene	49.34	50.00	ug/Kg	99%		70-145		

Type: Blank	Lab ID: QC944231	Batch: 274112
Matrix: Soil	Method: EPA 7471A	Prep Method: METHOD

QC944231 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	09/16/21	09/17/21

Type: Lab Control Sample	Lab ID: QC944232	Batch: 274112
Matrix: Soil	Method: EPA 7471A	Prep Method: METHOD

QC944232 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.8546	0.8333	mg/Kg	103%		80-120

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Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC944233**	**Batch:**	**274112**
Matrix (Source ID):	**Soil (450593-001)**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC944233 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.9426	ND	0.9259	mg/Kg	102%		75-125	1.1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC944234**	**Batch:**	**274112**
Matrix (Source ID):	**Soil (450593-001)**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC944234 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	0.9009	ND	0.8772	mg/Kg	103%		75-125	1	20	1.1

Type:	**Blank**	**Lab ID:**	**QC944514**	**Batch:**	**274199**
Matrix:	**Miscell.**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC944514 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	09/17/21	09/20/21

Type:	**Lab Control Sample**	**Lab ID:**	**QC944515**	**Batch:**	**274199**
Matrix:	**Miscell.**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC944515 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.8495	0.8333	mg/Kg	102%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC944516**	**Batch:**	**274199**
Matrix (Source ID):	**Soil (450602-001)**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC944516 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.8465	ND	0.8621	mg/Kg	98%		75-125	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC944517**	**Batch:**	**274199**
Matrix (Source ID):	**Soil (450602-001)**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC944517 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	0.8704	ND	0.8772	mg/Kg	99%		75-125	1	20	1.1

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Batch QC

Type: Blank	**Lab ID: QC945145**	**Batch: 274420**
Matrix: Soil	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC945145 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C6-C10	ND		mg/Kg	10	09/22/21	09/23/21
DRO C10-C28	ND		mg/Kg	10	09/22/21	09/23/21
ORO C28-C44	ND		mg/Kg	20	09/22/21	09/23/21
Surrogates				**Limits**		
n-Triacontane	91%		%REC	70-130	09/22/21	09/23/21

Type: Lab Control Sample	**Lab ID: QC945146**	**Batch: 274420**
Matrix: Soil	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC945146 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	258.6	250.0	mg/Kg	103%		76-122
Surrogates						
n-Triacontane	8.689	10.00	mg/Kg	87%		70-130

Type: Matrix Spike	**Lab ID: QC945147**	**Batch: 274420**
Matrix (Source ID): Soil (450839-006)	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC945147 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	217.0	ND	250.0	mg/Kg	87%		62-126	1
Surrogates								
n-Triacontane	6.643		10.00	mg/Kg	66%	*	70-130	1

Type: Matrix Spike Duplicate	**Lab ID: QC945148**	**Batch: 274420**
Matrix (Source ID): Soil (450839-006)	**Method: EPA 8015M**	**Prep Method: EPA 3580**

QC945148 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	246.6	ND	250.0	mg/Kg	99%		62-126	13	35	1
Surrogates										
n-Triacontane	7.266		10.00	mg/Kg	73%		70-130			1

* Value is outside QC limits
DO Diluted Out
ND Not Detected
NM Not Meaningful

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 450592
Report Level: II
Report Date: 09/20/2021

Analytical Report *prepared for:*

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Location: Artevel Phase II 21-16-121-02

Authorized for release by:



Jim Lin, Service Center Manager
Jim.lin@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, CDC ELITE Member

ENTHALPY ANALYTICAL

Sample Summary

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Lab Job #: 450592
Location: Artevel Phase II 21-16-121-02
Date Received: 09/15/21

Sample ID	Lab ID	Collected	Matrix
AG-1-0.5	450592-001	09/15/21 12:40	Soil
AG-1-2	450592-002	09/15/21 12:42	Soil
AG-2-0.5	450592-003	09/15/21 12:56	Soil
AG-2-2	450592-004	09/15/21 12:58	Soil
AG-3-0.5	450592-005	09/15/21 13:15	Soil
AG-3-2	450592-006	09/15/21 13:18	Soil
AG-4-0.5	450592-007	09/15/21 13:36	Soil
AG-4-2	450592-008	09/15/21 13:40	Soil
AG-5-0.5	450592-009	09/15/21 13:50	Soil
AG-5-2	450592-010	09/15/21 13:53	Soil

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Case Narrative

Converse Consultants	Lab Job Number: 450592
717 S. Myrtle Ave.	Location: Artevel Phase II 21-16-121-02
Monrovia, CA 91016	Date Received: 09/15/21
Mike Van Fleet	

This data package contains sample and QC results for ten soil samples, requested for the above referenced project on 09/15/21. The samples were received cold and intact.

Pesticides (EPA 8081A):

Low recovery was observed for endrin in the MS of AG-3-0.5 (lab # 450592-005); the LCS was within limits. High RPD was observed for endrin and endrin ketone in the MS/MSD of AG-3-0.5 (lab # 450592-005); these analytes were not detected at or above the RL in the associated samples. A number of samples were diluted due to the dark color of the sample extracts. No other analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

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Chain of Custody Record

Lab No: 450592

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	✓	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

<<< Select a Laboratory >>>

#N/A Berkeley Ave, Orange

#N/A

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Converse Consultants	Name:	Avtovel Phase II
Report To:	Michael Van Fleet	Number:	21-16-121-02
Email:	mvanfleet@converseconsultants.com	P.O.:	
Address:	717 S. Myrtle Ave	Address:	Euclid & Schaefer Ave's
	Monrovia, CA 91016		Ontario, CA 917
Phone:	626-930-1200	Global ID:	
Fax:	626-930-1212	Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: Arsenic - 6010B	Analysis Request: OCPs - 8081	Test Instructions / Comments
1	AG-1-0.5	9/15/21	12:40	S	1 sleeve	ice	✓	✓	
2	AG-1-2		12:42				✓	✓	
3	AG-2-0.5		12:56				✓	✓	
4	AG-2-2		12:58				✓	✓	
5	AG-3-0.5		1:15				✓	✓	
6	AG-3-2		1:18				✓	✓	
7	AG-4-0.5		1:36				✓	✓	
8	AG-4-2		1:40				✓	✓	
9	AG-5-0.5		1:50				✓	✓	
10	AG-5-2	↓	1:53	↓	↓	↓	✓	✓	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Kaspar Wittlinger	Converse Consultants	9/15/21 1647
[1] Received By:		ZAID PADILLA	EA/GL	9/15/21 1647
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Converse Consultants Project: _____

Date Received: 9/15/21 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 8.6 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.2 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?			✓
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 9/15/21

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Analysis Results for 450592

Mike Van Fleet
Converse Consultants
717 S. Myrtle Ave.
Monrovia, CA 91016

Lab Job #: 450592
Location: Artevel Phase II 21-16-121-02
Date Received: 09/15/21

Sample ID: AG-1-0.5 **Lab ID: 450592-001** **Collected: 09/15/21 12:40**
Matrix: Soil

450592-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**1.0**		mg/Kg	1.0	1	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Aldrin	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
4,4'-DDE	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Endrin	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	5.0	1	274027	09/17/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	10	1	274027	09/17/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	100	1	274027	09/17/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	50	1	274027	09/17/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	56%		%REC	23-120	1	274027	09/17/21	09/16/21	MTS
Decachlorobiphenyl	58%		%REC	24-120	1	274027	09/17/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450592

Sample ID: AG-1-2	Lab ID: 450592-002	Collected: 09/15/21 12:42
	Matrix: Soil	

450592-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**1.1**		mg/Kg	0.99	0.99	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
4,4'-DDE	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	50	5	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	500	5	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	250	5	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	66%		%REC	23-120	5	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	67%		%REC	24-120	5	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450592

Sample ID: AG-2-0.5	Lab ID: 450592-003	Collected: 09/15/21 12:56
	Matrix: Soil	

450592-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**5.8**		mg/Kg	1.0	1	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
4,4'-DDE	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	50	5	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	500	5	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	250	5	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	83%		%REC	23-120	5	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	83%		%REC	24-120	5	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450592

Sample ID: AG-2-2	Lab ID: 450592-004	Collected: 09/15/21 12:58
	Matrix: Soil	

450592-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**6.8**		mg/Kg	1.0	1	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
4,4'-DDE	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	25	5	274027	09/16/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	50	5	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	500	5	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	250	5	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	77%		%REC	23-120	5	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	74%		%REC	24-120	5	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450592

Sample ID: AG-3-0.5	Lab ID: 450592-005	Collected: 09/15/21 13:15
	Matrix: Soil	

450592-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**2.5**		mg/Kg	0.95	0.95	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDE	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	10	1	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	100	1	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	50	1	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	60%		%REC	23-120	1	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	60%		%REC	24-120	1	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450592

Sample ID: AG-3-2	Lab ID: 450592-006	Collected: 09/15/21 13:18
	Matrix: Soil	

450592-006 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**4.6**		mg/Kg	1.0	1	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDE	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	10	1	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	100	1	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	50	1	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	56%		%REC	23-120	1	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	57%		%REC	24-120	1	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450592

Sample ID: AG-4-0.5	Lab ID: 450592-007	Collected: 09/15/21 13:36
	Matrix: Soil	

450592-007 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**2.6**		mg/Kg	0.93	0.93	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
4,4'-DDE	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	50	10	274027	09/16/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	100	10	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	1,000	10	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	500	10	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX		DO	%REC	23-120	10	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl		DO	%REC	24-120	10	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

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Analysis Results for 450592

Sample ID: AG-4-2	Lab ID: 450592-008	Collected: 09/15/21 13:40
	Matrix: Soil	

450592-008 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**3.1**		mg/Kg	0.94	0.94	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDE	**5.9**		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDT	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	10	1	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	100	1	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	50	1	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	60%		%REC	23-120	1	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	69%		%REC	24-120	1	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450592

Sample ID: AG-5-0.5	Lab ID: 450592-009	Collected: 09/15/21 13:50
	Matrix: Soil	

450592-009 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**3.1**		mg/Kg	1.0	1	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDE	**58**		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDT	**17**	#	ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	10	1	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	100	1	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	50	1	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	58%		%REC	23-120	1	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	57%		%REC	24-120	1	274027	09/16/21	09/16/21	MTS

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 450592

Sample ID: AG-5-2	Lab ID: 450592-010	Collected: 09/15/21 13:53
	Matrix: Soil	

450592-010 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Arsenic	**2.4**		mg/Kg	1.0	1	274065	09/16/21	09/17/21	KLN
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
beta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
gamma-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
delta-BHC	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Aldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Heptachlor epoxide	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan I	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Dieldrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDE	**410**		ug/Kg	50	10	274027	09/16/21	09/17/21	TRN
Endrin	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan II	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endosulfan sulfate	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDD	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin aldehyde	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Endrin ketone	ND		ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
4,4'-DDT	**31**	#	ug/Kg	5.0	1	274027	09/16/21	09/16/21	MTS
Methoxychlor	ND		ug/Kg	10	1	274027	09/16/21	09/16/21	MTS
Toxaphene	ND		ug/Kg	100	1	274027	09/16/21	09/16/21	MTS
Chlordane (Technical)	ND		ug/Kg	50	1	274027	09/16/21	09/16/21	MTS
Surrogates				**Limits**					
TCMX	71%		%REC	23-120	1	274027	09/16/21	09/16/21	MTS
Decachlorobiphenyl	72%		%REC	24-120	1	274027	09/16/21	09/16/21	MTS

CCV drift outside limits; average CCV drift within limits per method requirements
DO Diluted Out
ND Not Detected

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC944004**	**Batch: 274027**
Matrix: Soil	**Method: EPA 8081A**	**Prep Method: EPA 3546**

QC944004 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
alpha-BHC	ND		ug/Kg	5.0	09/16/21	09/16/21
beta-BHC	ND		ug/Kg	5.0	09/16/21	09/16/21
gamma-BHC	ND		ug/Kg	5.0	09/16/21	09/16/21
delta-BHC	ND		ug/Kg	5.0	09/16/21	09/16/21
Heptachlor	ND		ug/Kg	5.0	09/16/21	09/16/21
Aldrin	ND		ug/Kg	5.0	09/16/21	09/16/21
Heptachlor epoxide	ND		ug/Kg	5.0	09/16/21	09/16/21
Endosulfan I	ND		ug/Kg	5.0	09/16/21	09/16/21
Dieldrin	ND		ug/Kg	5.0	09/16/21	09/16/21
4,4'-DDE	ND		ug/Kg	5.0	09/16/21	09/16/21
Endrin	ND		ug/Kg	5.0	09/16/21	09/16/21
Endosulfan II	ND		ug/Kg	5.0	09/16/21	09/16/21
Endosulfan sulfate	ND		ug/Kg	5.0	09/16/21	09/16/21
4,4'-DDD	ND		ug/Kg	5.0	09/16/21	09/16/21
Endrin aldehyde	ND		ug/Kg	5.0	09/16/21	09/16/21
Endrin ketone	ND		ug/Kg	5.0	09/16/21	09/16/21
4,4'-DDT	ND		ug/Kg	5.0	09/16/21	09/16/21
Methoxychlor	ND		ug/Kg	10	09/16/21	09/16/21
Toxaphene	ND		ug/Kg	100	09/16/21	09/16/21
Chlordane (Technical)	ND		ug/Kg	50	09/16/21	09/16/21
Surrogates				**Limits**		
TCMX	62%		%REC	23-120	09/16/21	09/16/21
Decachlorobiphenyl	67%		%REC	24-120	09/16/21	09/16/21

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID: QC944005**	**Batch: 274027**
Matrix: Soil	**Method: EPA 8081A**	**Prep Method: EPA 3546**

QC944005 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	37.23	50.00	ug/Kg	74%		22-129
beta-BHC	39.00	50.00	ug/Kg	78%		28-125
gamma-BHC	36.70	50.00	ug/Kg	73%		22-128
delta-BHC	36.51	50.00	ug/Kg	73%		24-131
Heptachlor	36.86	50.00	ug/Kg	74%		18-124
Aldrin	33.63	50.00	ug/Kg	67%		23-120
Heptachlor epoxide	33.48	50.00	ug/Kg	67%		26-120
Endosulfan I	36.74	50.00	ug/Kg	73%		25-126
Dieldrin	35.97	50.00	ug/Kg	72%		23-124
4,4'-DDE	33.78	50.00	ug/Kg	68%		28-121
Endrin	25.71	50.00	ug/Kg	51%	#	25-127
Endosulfan II	36.31	50.00	ug/Kg	73%		29-121
Endosulfan sulfate	40.07	50.00	ug/Kg	80%		30-121
4,4'-DDD	33.64	50.00	ug/Kg	67%		26-120
Endrin aldehyde	29.12	50.00	ug/Kg	58%		10-120
Endrin ketone	39.94	50.00	ug/Kg	80%		28-125
4,4'-DDT	36.01	50.00	ug/Kg	72%	#	22-125
Methoxychlor	34.43	50.00	ug/Kg	69%	#	28-130
Surrogates						
TCMX	35.21	50.00	ug/Kg	70%		23-120
Decachlorobiphenyl	35.35	50.00	ug/Kg	71%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC944006**	**Batch:**	**274027**
Matrix (Source ID):	**Soil (450592-005)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC944006 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	34.95	ND	50.00	ug/Kg	70%		46-120	1
beta-BHC	33.04	ND	50.00	ug/Kg	66%		41-120	1
gamma-BHC	33.32	ND	50.00	ug/Kg	67%		41-120	1
delta-BHC	31.60	ND	50.00	ug/Kg	63%		38-123	1
Heptachlor	32.74	ND	50.00	ug/Kg	65%		39-120	1
Aldrin	29.77	ND	50.00	ug/Kg	60%		34-120	1
Heptachlor epoxide	30.02	ND	50.00	ug/Kg	60%		43-120	1
Endosulfan I	32.36	ND	50.00	ug/Kg	65%		45-120	1
Dieldrin	29.23	ND	50.00	ug/Kg	58%		45-120	1
4,4'-DDE	32.42	ND	50.00	ug/Kg	65%		34-120	1
Endrin	3.058	ND	50.00	ug/Kg	6%	#,*	40-120	1
Endosulfan II	29.55	ND	50.00	ug/Kg	59%		41-120	1
Endosulfan sulfate	31.21	ND	50.00	ug/Kg	62%		42-120	1
4,4'-DDD	30.53	ND	50.00	ug/Kg	61%		41-120	1
Endrin aldehyde	26.39	ND	50.00	ug/Kg	53%		30-120	1
Endrin ketone	46.56	ND	50.00	ug/Kg	93%		45-120	1
4,4'-DDT	32.47	ND	50.00	ug/Kg	65%	#	35-127	1
Methoxychlor	27.74	ND	50.00	ug/Kg	55%	#	42-136	1
Surrogates								
TCMX	28.56		50.00	ug/Kg	57%		23-120	1
Decachlorobiphenyl	28.43		50.00	ug/Kg	57%		24-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC944007**	**Batch:**	**274027**
Matrix (Source ID):	**Soil (450592-005)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC944007 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	38.11	ND	50.00	ug/Kg	76%		46-120	9	30	1
beta-BHC	37.25	ND	50.00	ug/Kg	74%		41-120	12	30	1
gamma-BHC	36.98	ND	50.00	ug/Kg	74%		41-120	10	30	1
delta-BHC	36.13	ND	50.00	ug/Kg	72%		38-123	13	30	1
Heptachlor	35.34	ND	50.00	ug/Kg	71%		39-120	8	30	1
Aldrin	33.17	ND	50.00	ug/Kg	66%		34-120	11	30	1
Heptachlor epoxide	32.58	ND	50.00	ug/Kg	65%		43-120	8	30	1
Endosulfan I	35.81	ND	50.00	ug/Kg	72%		45-120	10	30	1
Dieldrin	35.03	ND	50.00	ug/Kg	70%		45-120	18	30	1
4,4'-DDE	35.02	ND	50.00	ug/Kg	70%		34-120	8	30	1
Endrin	34.84	ND	50.00	ug/Kg	70%	#	40-120	168*	30	1
Endosulfan II	34.18	ND	50.00	ug/Kg	68%		41-120	15	30	1
Endosulfan sulfate	34.25	ND	50.00	ug/Kg	68%		42-120	9	30	1
4,4'-DDD	31.84	ND	50.00	ug/Kg	64%		41-120	4	30	1
Endrin aldehyde	25.33	ND	50.00	ug/Kg	51%		30-120	4	30	1
Endrin ketone	33.74	ND	50.00	ug/Kg	67%		45-120	32*	30	1
4,4'-DDT	35.79	ND	50.00	ug/Kg	72%	#	35-127	10	30	1
Methoxychlor	30.01	ND	50.00	ug/Kg	60%	#	42-136	8	30	1
Surrogates										
TCMX	34.22		50.00	ug/Kg	68%		23-120			1
Decachlorobiphenyl	31.45		50.00	ug/Kg	63%		24-120			1

Type:	**Blank**	**Lab ID:**	**QC944092**	**Batch:**	**274065**
Matrix:	**Soil**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC944092 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	09/16/21	09/16/21

Type:	**Lab Control Sample**	**Lab ID:**	**QC944093**	**Batch:**	**274065**
Matrix:	**Soil**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC944093 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	103.6	100.0	mg/Kg	104%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC944094**	**Batch:**	**274065**
Matrix (Source ID):	**Soil (450652-001)**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC944094 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	96.14	1.149	91.74	mg/Kg	104%		75-125	0.92

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC944095**	**Batch:**	**274065**
Matrix (Source ID):	**Soil (450652-001)**	**Method:**	**EPA 6010B**	**Prep Method:**	**EPA 3050B**

QC944095 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	102.5	1.149	95.24	mg/Kg	106%		75-125	3	35	0.95

\# CCV drift outside limits; average CCV drift within limits per method requirements

* Value is outside QC limits

ND Not Detected

APPENDIX G
HYDROLOGY REPORTS

APPENDIX G1

HYDROLOGY & HYDRAULIC REPORT

HYDROLOGY & HYDRAULIC REPORT FOR EUCLID MIXED USE SPECIFIC PLAN

CITY OF ONTARIO
CALIFORNIA

PREPARED FOR:

WESTLAND GROUP, INC.
4150 CONCOURS, ONTARIO CA

PREPARED BY:

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MARCH 16, 2023
REVISED:

This report has been prepared by or under the direction of the following registered civil engineer who attests to the technical information contained herein. The registered civil engineer has also judged the qualifications of any technical specialists providing engineering data upon which recommendations, conclusions, and decisions are based.



Joseph L. Castaneda RCE 59835 Registered Civil Engineer	03/16/2023 Date	Seal

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I. PURPOSE AND SCOPE

The purpose of this study is to evaluate the onsite and offsite watershed area and required storm drain systems as part of the Euclid Mixed Use Specific Plan project. The project site is located within the City of Ontario Master Drainage Plan Area XIV and plans to construct several City of Ontario Master Drainage Plan storm drain facilities.

The scope of the study includes the following:

1. Determination of the 100-year peak flow rates for the onsite project area for the pre-project and post-project conditions.
2. Sizing of the proposed onsite storm drain systems and subsurface systems to ensure flood protection for the site and mitigation for the water quality volume and increased runoff mitigation volume.
3. Assess the existing and proposed MDP facilities adjacent to and downstream of the project site.
4. Preparation of a hydrology report, which consists of hydrological and analytical results and exhibits.

II. PROJECT DESCRIPTION AND MASTER DRAINAGE PLAN OVERVIEW

Euclid Mixed Use Specific Plan (EMUSP) is a proposed industrial development within the City of Ontario. The project site is bounded by Schaefer Avenue to the north, Euclid Avenue to the west, Edison Avenue to the south, and Sultana Avenue to the east, as shown on Figure 1 Vicinity Map. The project site is located within the City of Ontario's Master Drainage Plan (MDP) Area XIV, see Excerpt A. The City of Ontario's Master Drainage Plan Planned Facilities Map has been included as Excerpt B.

The MDP Area XIV is approximately bounded by Riverside Drive to the north, between Bon View Avenue and Grove Avenue to the east, Merrill Avenue to the south, and Euclid Avenue to the west, see Figure 1 Vicinity Map. Runoff flows to the south and is collected in storm drain facilities which ultimately discharge into the City of Chino Line I system located south of the southwestern corner of Area XIV near the intersection of Merrill Avenue and Euclid Avenue.

As part of the PM 20016 Project (Ontario Ranch Business Park) storm drain infrastructure is being constructed along Euclid Avenue, Eucalyptus Avenue, Merrill Avenue, Sultana Avenue, Campus Avenue, and Bon View Avenue. This project was assessed based on the downstream storm drain construction being completed and operational. The existing MDP facilities constructed per PM 20016 are shown on Figure 2. Based on the PM 20016 study, upstream projects are required to mitigate their flows to 80% of pre-project levels.

The EMUSP project proposes the following storm drain infrastructure:

1. Master Drainage Plan Facilities, as shown on Figure 3

   a. EULD-XIV-1 located on Euclid Avenue between Schaefer Avenue and Edison Avenue.
   b. EULD-XIV-3 located on Edison Avenue east of Euclid Avenue
   c. EULD-XIV-4 located on Schaefer Avenue east of Euclid Avenue
2. Onsite Drainage Facilities, as shown on Exhibit C
   a. Catch basins, inlets, and storm drain systems.
   b. Subsurface systems

III. ONSITE HYDROLOGY

The San Bernardino County Hydrology Manual (Reference 1) and the City of Ontario Master Draining Plan Area XIV Hydrology Calculations were used to develop the hydrological parameters for the hydrology analyses. The rational method and unit hydrograph method were used for the analyses and the computations were performed using the computer program developed by Civil Cadd/Civil Design.

The rainfall depths used in the hydrology calculations are as follows:

Table A. Rainfall Values	
Storm Event & Duration	**Rainfall (inches)**
100-Year, 1-Hour	1.2
100-Year, 3-Hour	2.1
100-Year, 6-Hour	3.0
100-Year, 24-Hour	6.0
Slope of Intensity	0.6

The existing soil classification for the on-site area consists of Hydrologic Soil Group "B". An Antecedent Moisture Condition of II was used for the 100-year calculations. The rainfall depths and Antecedent Moisture Condition are based on the City of Ontario MDP Area XIV hydrology calculations.

A land cover type of Commercial/Industrial was used for the onsite areas in the post-project condition. A land cover type of Undeveloped (poor cover) was used for the onsite area in the pre-project condition.

The impervious ratio and runoff index values from the rational method analysis were used for the unit hydrograph analyses. The time of concentration from the rational method analysis was used for calculating the lag time for the unit hydrograph. To compute a time of concentration for the pre-project areas, the post-project time of concentration was adjusted using a ratio between the Manning's N values for the pre-project and post-project conditions.

The rational method analysis analyzed Area A, Area B, and Area C. Area A consist of 7 sub-areas with a total of 34 acres. Area B consist of 5 sub-areas with a total area of 16 acres. Area

C consist of 2 sub-areas with a total area of 8 acres. An additional model was run with all three areas and user entry commands to confluence Area A, Area B, and Area C. The rational method analysis was performed for a 100-year storm event.

The results of the rational method analysis are as follows:

Table B. Rational Method Results		
Area	Post-Project Results	
	Peak Flow Rate, ft^3/s	Time of Concentration, min
A	89.26	12.89
B	52.78	8.24
C	25.85	9.02
Total	149.69	13.36

The unit hydrograph analysis analyzed the initial areas from rational method Area A, Area B, and Area C. The unit hydrograph analysis was performed for the 100-year storm event for the pre-project and post-project conditions.

The results of the unit hydrograph analysis are as follows:

Table C. Unit Hydrograph Results		
Area	Pre-Project	Post-Project
	Peak Flow Rate, ft^3/s	Peak Flow Rate, ft^3/s
A1	5.32	12.93
A2	8.69	19.41
A3	6.96	16.12
A4	8.14	20.73
A5	3.80	8.54
A6	6.34	14.62
A7	3.28	7.59
B1	6.26	14.63
B2	2.96	6.18
B3	7.20	16.13
B4	4.97	11.38
B5	3.45	7.14
C1	7.17	16.40
C2	4.15	9.78

The results of the rational method analysis will be used to provide pipe sizing for the onsite storm drain systems. The results of the unit hydrograph analysis will be used to calculate the storage volume required to provide increased runoff mitigation.

The post-project onsite rational method calculations have been included in Appendix A. The pre-project onsite unit hydrograph calculations have been included in Appendix B. The post-project onsite unit hydrograph calculations have been included in Appendix C. The onsite rational method hydrology map is included as Exhibit A.

IV. ONSITE HYDRAULICS

A drainage facilities map has been provided for the project site, see Exhibit C. The runoff from the onsite project areas is conveyed via a system of inlets and storm drains to the subsurface systems. The purpose of the subsurface systems is for mitigation of the water quality volume and to provide increased runoff mitigation.

A preliminary storm drain sizing calculation was performed based on the 100-year flow rates per the rational method hydrology analysis. The FlowMaster program was used to calculate the required pipe size such that the percent full is 75% or less to account for hydraulic losses. A slope of 0.5% was used for the analysis. The pipe sizing calculations are included in Appendix E.

The proposed subsurface systems were sized based on the water quality volume and increased runoff mitigation volume. The increased runoff mitigation volume was calculated based on the unit hydrograph results and a flow rate mitigation to 80% of the pre-project flow rate. The required volumes are included in Appendix C. A typical cross-section for a 96" subsurface system and the required system lengths for each area are included in Appendix C.

V. OFFSITE HYDROLOGY

The project is proposing to construct storm drain infrastructure as required by the City of Ontario Master Drainage Plan. The flow rates within the MDP are based on a developed condition. However, an offsite hydrology analyses was performed for the 100 year condition to understand the interim flow rates that will flow towards Schaefer Avenue. Exhibit B was prepared to develop nodes, subareas and flowlines for Area A and Area B which are tributary to Schaefer Avenue. Watershed Areas A is approximately 240 acres and Watershed Area B is approximately 155 acres. The purpose of the hydrology is to determine the interim flow rate that will be required to be intercepted along Schaefer Avenue in the interim condition. The runoff from this area will be allowed to conveyed into the MDP Euld-XIV-4 Storm Drain system that is located along Schaefer Avenue and has a MDP defined flow rate of that ranges from 122 ft^3/s to 235 ft^3/s. The Euld-XIV-1 Storm Drain along Euclid Avenue has been planned to convey 570 ft^3/s. Table D below provides the flow rates for the 100 year condition for Area A and Area B.

Table D. Rational Method Results				
Area	Interim Condition Flow Rates			
	Peak Flow Rate, ft^3/s	Area (acres)	Time of Concentration, min	Intensity, in/hr
A	196.6	153.9	25.23	2.02
B	212.2	236.8	41.61	1.50

In the interim condition, the total flow rate for Area A and Area B will be approximately 360 ft^3/s based upon a confluence assessment. The capacity of the Euld-XIV-1 Storm Drain (570 ft^3/s) and the Euld-XIV-4 Storm Drain (235 ft^3/s to 122 ft^3/s) will allow the interim condition flow rates to be captured. This will provide the necessary flood protection measures to protect the project from flooding.

VI. CONCLUSION

The study evaluated the proposed industrial development to assess the drainage patterns and proposed storm drain systems for the onsite area and offsite area. It has been concluded that:

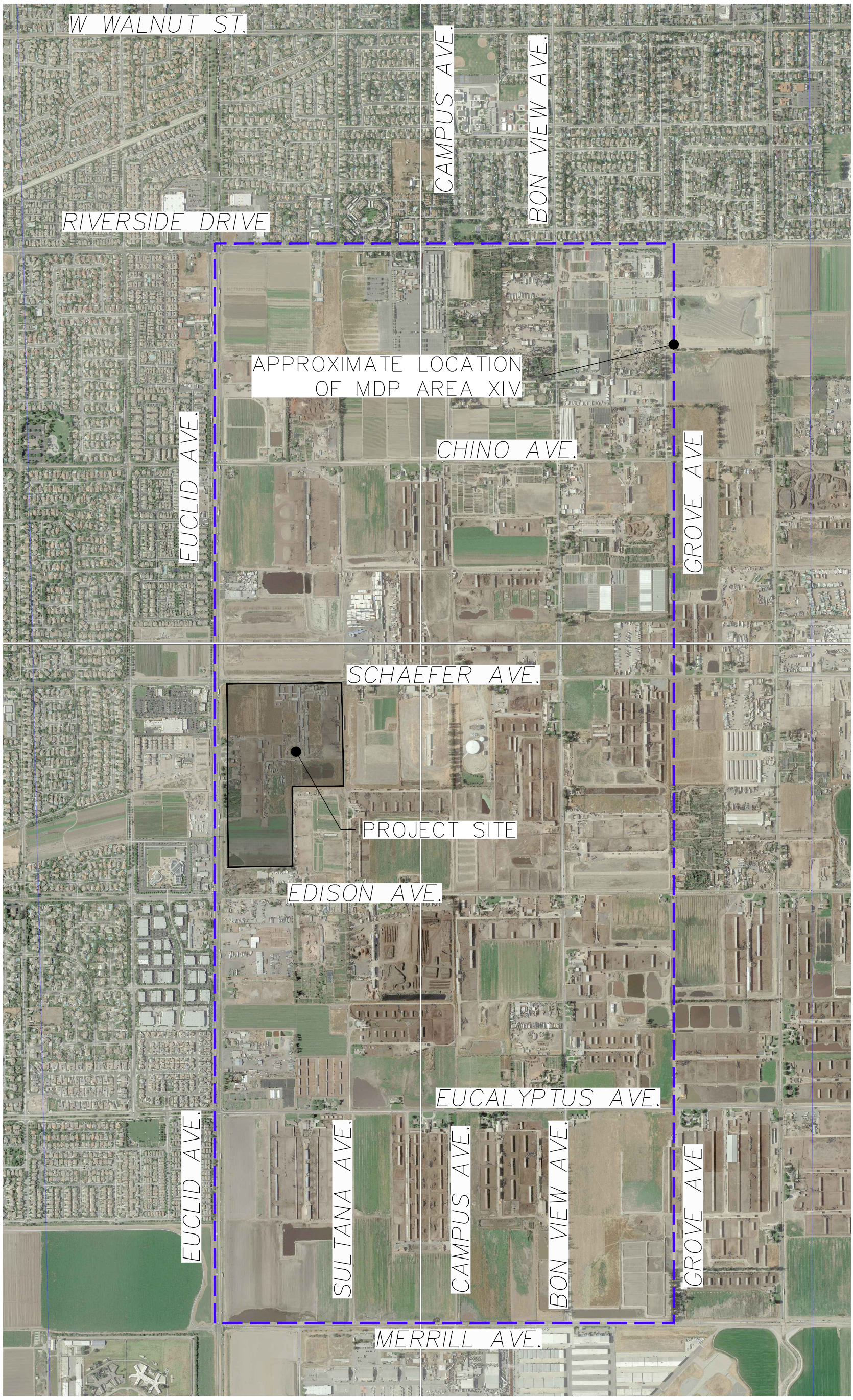
1. The proposed project is located within the City of Ontario Master Drainage Plan Area XIV which provides the regional storm drain system to flood protect the area.
2. Based on the existing downstream MDP systems, the project is required to mitigate onsite runoff to 80% of pre-project levels.
3. The project proposes onsite storm drain systems to sufficiently flood protect the project site and provide mitigation for water quality and increased runoff.
4. The project proposes to construct three MDP systems located to the north, west, and south of the project site. These MDP facilities will provide the necessary flood protection for the project.

VII. REFERENCES

1. San Bernardino Flood Control Hydrology Manual, August 1986.
2. City of Ontario Master Plan of Drainage, Revised June 2017

FIGURES

FIGURE 1: VICINITY MAP



SCALE 1"=1200'

VICINITY MAP

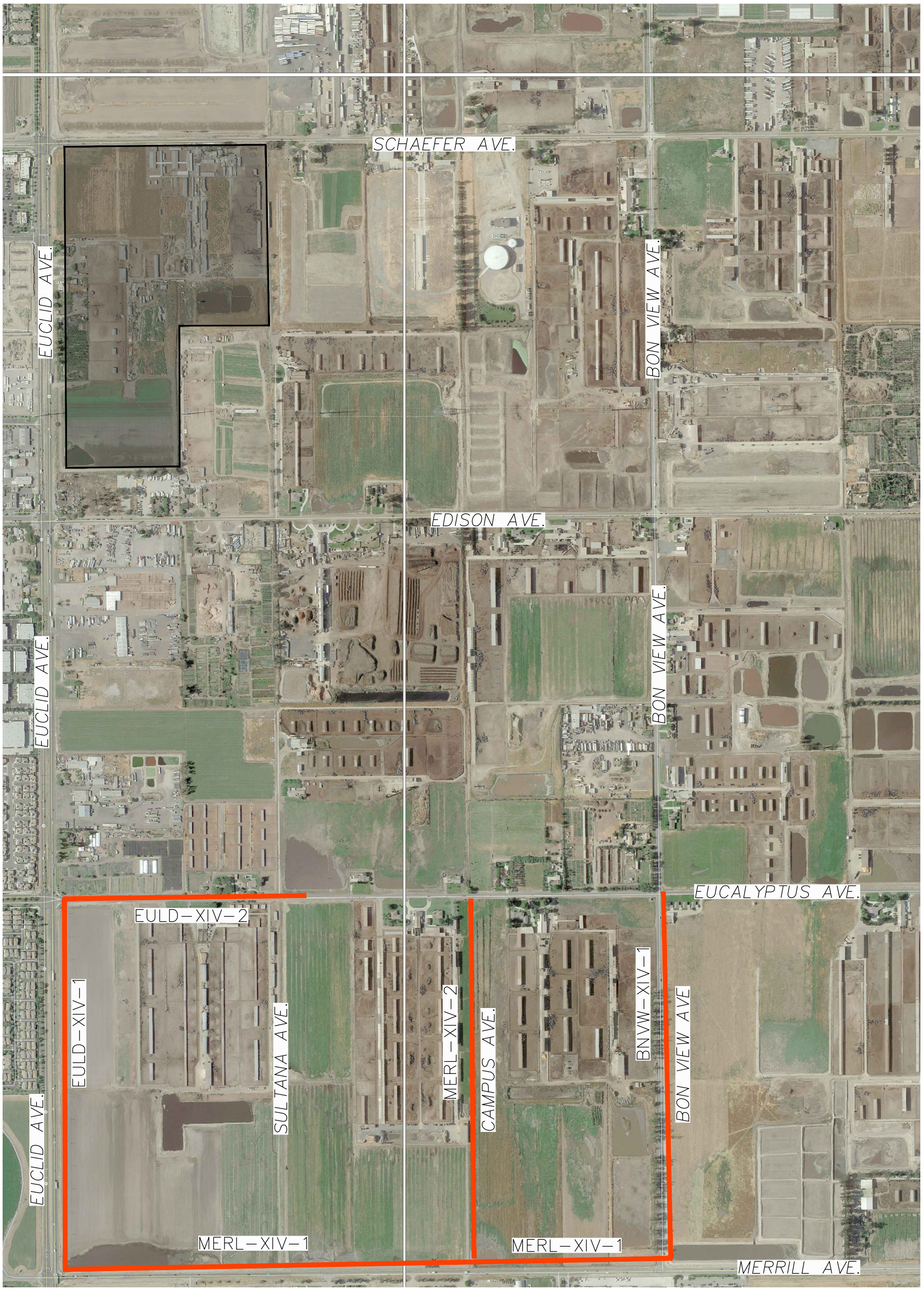
FIGURE 1

JLC Engineering & Consulting, Inc.
41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits\FIGURE-1-VICINITY-MAP.dwg
Last Opened: Mar 15, 2023 - 3:36pm by stanner

FIGURE 2: EXISTING MDP DRAINAGE FACILITIES MAP

EXISTING MDP DRAINAGE FACILITIES MAP



SCALE 1"=700'

LEGEND:

EXISTING MDP SYSTEMS PER PM 20016

PROJECT SITE

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

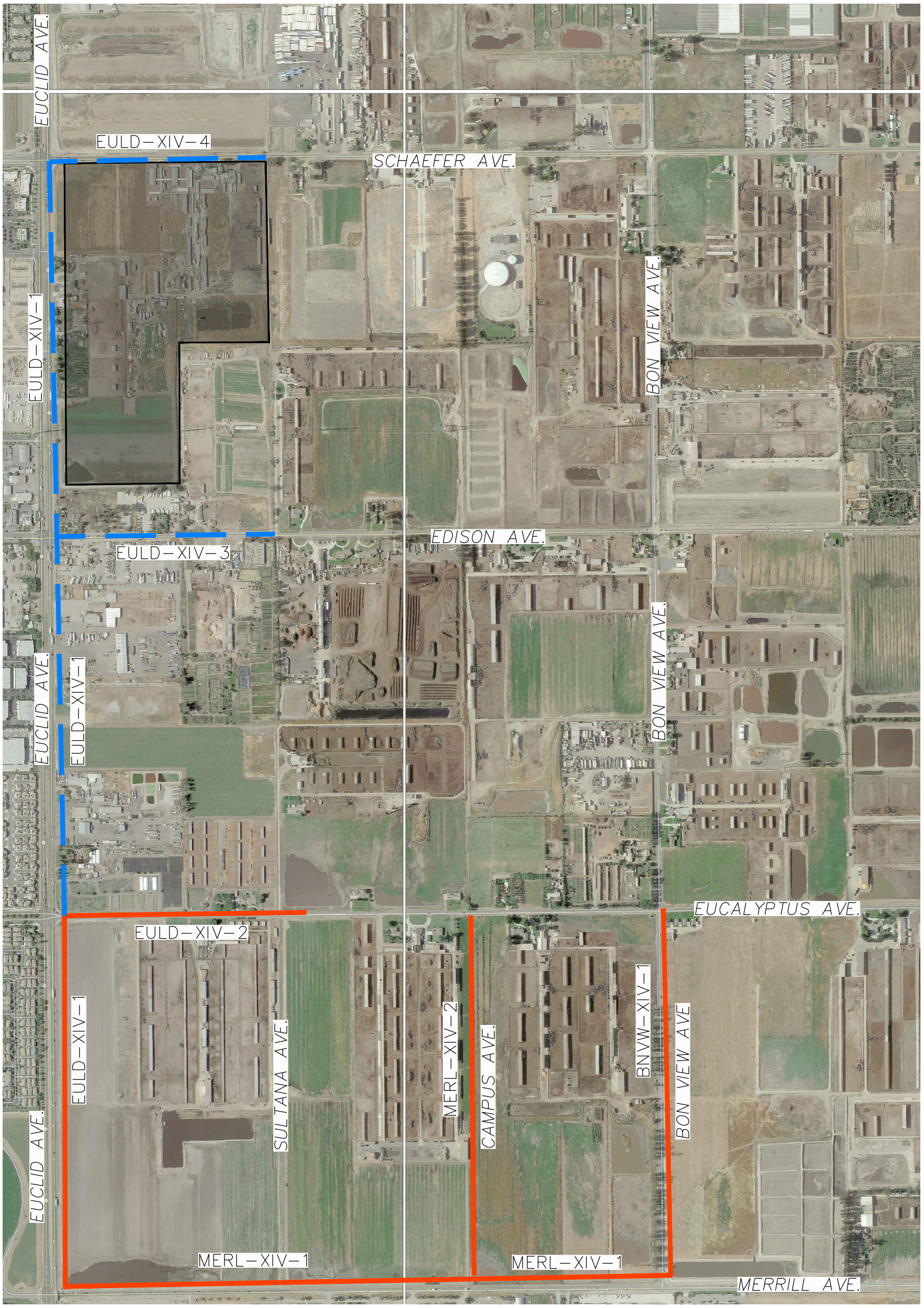
FIGURE 2

EXISTING MDP DRAINAGE FACILITIES MAP

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Last Opened: Mar 14, 2023 - 8:57am by stanner

FIGURE 3: PROPOSED MDP FACILITIES MAP

PROPOSED MDP DRAINAGE FACILITIES MAP



SCALE 1"=700'

LEGEND:

EXISTING MDP SYSTEMS PER PM 20016

PROPOSED MDP SYSTEMS

PROJECT SITE

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

FIGURE 3

PROPOSED MDP DRAINAGE FACILITIES MAP

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APPENDICES

APPENDIX A: POST-PROJECT ONSITE RATIONAL METHOD CALCULATIONS

APPENDIX A.1: RATIONAL METHOD ANALYSIS, AREAS "A"

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 03/09/23

EUCLID AVE
ONSITE RATIONAL METHOD
100 YEAR STORM
AREA A

Program License Serial Number 6279

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.200 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 2

++
Process from Point/Station 101.000 to Point/Station 102.000
**** INITIAL AREA EVALUATION ****

COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 56.00
Pervious ratio(Ap) = 0.1000 Max loss rate(Fm)= 0.073(In/Hr)
Initial subarea data:
Initial area flow distance = 786.000(Ft.)
Top (of initial area) elevation = 721.000(Ft.)
Bottom (of initial area) elevation = 716.000(Ft.)
Difference in elevation = 5.000(Ft.)
Slope = 0.00636 s(%)= 0.64
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 12.032 min.
Rainfall intensity = 3.147(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.879
Subarea runoff = 12.752(CFS)
Total initial stream area = 4.610(Ac.)
Pervious area fraction = 0.100
Initial area Fm value = 0.073(In/Hr)

++
Process from Point/Station 102.000 to Point/Station 105.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 716.000(Ft.)

```
Downstream point/station elevation =   715.000(Ft.)
Pipe length  =   150.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    12.752(CFS)
Nearest computed pipe diameter  =     21.00(In.)
Calculated individual pipe flow  =    12.752(CFS)
Normal flow depth in pipe =   16.95(In.)
Flow top width inside pipe =   16.58(In.)
Critical Depth =   15.96(In.)
Pipe flow velocity =      6.13(Ft/s)
Travel time through pipe =    0.41 min.
Time of concentration (TC) =    12.44 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      102.000 to Point/Station      105.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      4.610(Ac.)
Runoff from this stream =     12.752(CFS)
Time of concentration =   12.44 min.
Rainfall intensity =     3.085(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      103.000 to Point/Station      104.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   656.000(Ft.)
Top (of initial area) elevation =   725.000(Ft.)
Bottom (of initial area) elevation =   716.000(Ft.)
Difference in elevation =     9.000(Ft.)
Slope =    0.01372  s(%)=       1.37
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.598 min.
Rainfall intensity =      3.604(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.882
Subarea runoff =     20.685(CFS)
Total initial stream area =        6.510(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      104.000 to Point/Station      105.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   716.000(Ft.)
```

```
Downstream point/station elevation =   715.000(Ft.)
Pipe length  =    25.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    20.685(CFS)
Nearest computed pipe diameter  =     18.00(In.)
Calculated individual pipe flow  =    20.685(CFS)
Normal flow depth in pipe =   14.51(In.)
Flow top width inside pipe =   14.24(In.)
Critical depth could not be calculated.
Pipe flow velocity =     13.55(Ft/s)
Travel time through pipe =    0.03 min.
Time of concentration (TC) =     9.63 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      104.000 to Point/Station      105.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      6.510(Ac.)
Runoff from this stream =     20.685(CFS)
Time of concentration =    9.63 min.
Rainfall intensity =     3.597(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min) (In/Hr)     (In/Hr)


1     12.75     4.610     12.44    0.073      3.085
2     20.69     6.510      9.63    0.073      3.597
Qmax(1) =
         1.000 *    1.000 *    12.752) +
         0.855 *    1.000 *    20.685) + =      30.428
Qmax(2) =
         1.170 *    0.774 *    12.752) +
         1.000 *    1.000 *    20.685) + =      32.235

Total of 2 main streams to confluence:
Flow rates before confluence point:
      13.752      21.685
Maximum flow rates at confluence using above data:
       30.428       32.235
Area of streams before confluence:
        4.610        6.510
Effective area values after confluence:
       11.120       10.078


Results of confluence:
Total flow rate =     32.235(CFS)
Time of concentration =     9.628 min.
Effective stream area after confluence  =     10.078(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.073(In/Hr)
Study area total =      11.12(Ac.)
```

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      105.000 to Point/Station      115.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------------
Upstream point/station elevation =   715.000(Ft.)
Downstream point/station elevation =   709.000(Ft.)
Pipe length  =   750.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    32.235(CFS)
Nearest computed pipe diameter  =     30.00(In.)
Calculated individual pipe flow  =    32.235(CFS)
Normal flow depth in pipe =   21.80(In.)
Flow top width inside pipe =   26.74(In.)
Critical Depth =   23.18(In.)
Pipe flow velocity =      8.43(Ft/s)
Travel time through pipe =    1.48 min.
Time of concentration (TC) =    11.11 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      105.000 to Point/Station      115.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     10.078(Ac.)
Runoff from this stream =     32.235(CFS)
Time of concentration =   11.11 min.
Rainfall intensity =     3.301(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      106.000 to Point/Station      109.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   456.000(Ft.)
Top (of initial area) elevation =   718.000(Ft.)
Bottom (of initial area) elevation =   711.000(Ft.)
Difference in elevation =     7.000(Ft.)
Slope =    0.01535  s(%)=       1.54
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    8.114 min.
Rainfall intensity =      3.986(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.883
Subarea runoff =     16.832(CFS)
Total initial stream area =        4.780(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)
```

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      106.000 to Point/Station      109.000
**** CONFLUENCE OF MINOR STREAMS ****
----------------------------------------------------------------------
Along Main Stream number: 2 in normal stream number 1
Stream flow area =      4.780(Ac.)
Runoff from this stream =     16.832(CFS)
Time of concentration =    8.11 min.
Rainfall intensity =     3.986(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      107.000 to Point/Station      108.000
**** INITIAL AREA EVALUATION ****
----------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   855.000(Ft.)
Top (of initial area) elevation =   715.000(Ft.)
Bottom (of initial area) elevation =   712.000(Ft.)
Difference in elevation =     3.000(Ft.)
Slope =    0.00351  s(%)=       0.35
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   14.016 min.
Rainfall intensity =      2.871(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.877
Subarea runoff =     19.718(CFS)
Total initial stream area =        7.830(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      108.000 to Point/Station      109.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
----------------------------------------------------------------------
Upstream point/station elevation =   712.000(Ft.)
Downstream point/station elevation =   711.000(Ft.)
Pipe length  =   220.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    19.718(CFS)
Nearest computed pipe diameter  =     27.00(In.)
Calculated individual pipe flow  =    19.718(CFS)
Normal flow depth in pipe =   20.91(In.)
Flow top width inside pipe =   22.57(In.)
Critical Depth =   18.65(In.)
Pipe flow velocity =      5.97(Ft/s)
Travel time through pipe =    0.61 min.
Time of concentration (TC) =    14.63 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      108.000 to Point/Station      109.000
```

**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 2 in normal stream number 2
Stream flow area = 7.830(Ac.)
Runoff from this stream = 19.718(CFS)
Time of concentration = 14.63 min.
Rainfall intensity = 2.799(In/Hr)
Area averaged loss rate (Fm) = 0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream No.	Flow rate (CFS)	Area (Ac.)	TC (min)	Fm (In/Hr)	Rainfall Intensity (In/Hr)
1	16.83	4.780	8.11	0.073	3.986
2	19.72	7.830	14.63	0.073	2.799

Qmax(1) =
1.000 * 1.000 * 16.832) +
1.436 * 0.555 * 19.718) + = 32.533
Qmax(2) =
0.697 * 1.000 * 16.832) +
1.000 * 1.000 * 19.718) + = 31.441

Total of 2 streams to confluence:
Flow rates before confluence point:
16.832 19.718
Maximum flow rates at confluence using above data:
32.533 31.441
Area of streams before confluence:
4.780 7.830
Effective area values after confluence:
9.123 12.610
Results of confluence:
Total flow rate = 32.533(CFS)
Time of concentration = 8.114 min.
Effective stream area after confluence = 9.123(Ac.)
Study area average Pervious fraction(Ap) = 0.100
Study area average soil loss rate(Fm) = 0.073(In/Hr)
Study area total (this main stream) = 12.61(Ac.)

++
Process from Point/Station 109.000 to Point/Station 115.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 711.000(Ft.)
Downstream point/station elevation = 709.000(Ft.)
Pipe length = 50.00(Ft.) Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 32.533(CFS)
Nearest computed pipe diameter = 24.00(In.)
Calculated individual pipe flow = 32.533(CFS)
Normal flow depth in pipe = 15.07(In.)
Flow top width inside pipe = 23.20(In.)
Critical Depth = 22.74(In.)
Pipe flow velocity = 15.67(Ft/s)
Travel time through pipe = 0.05 min.
Time of concentration (TC) = 8.17 min.

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      109.000 to Point/Station      115.000
**** CONFLUENCE OF MAIN STREAMS ****
----------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      9.123(Ac.)
Runoff from this stream =     32.533(CFS)
Time of concentration =    8.17 min.
Rainfall intensity =     3.970(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 3


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      110.000 to Point/Station      111.000
**** INITIAL AREA EVALUATION ****
----------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   477.000(Ft.)
Top (of initial area) elevation =   725.000(Ft.)
Bottom (of initial area) elevation =   720.000(Ft.)
Difference in elevation =     5.000(Ft.)
Slope =    0.01048  s(%)=       1.05
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    8.916 min.
Rainfall intensity =      3.767(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.882
Subarea runoff =      9.008(CFS)
Total initial stream area =        2.710(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      111.000 to Point/Station      114.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
----------------------------------------------------------------------
Upstream point/station elevation =   720.000(Ft.)
Downstream point/station elevation =   716.000(Ft.)
Pipe length  =   150.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     9.008(CFS)
Nearest computed pipe diameter  =     15.00(In.)
Calculated individual pipe flow  =     9.008(CFS)
Normal flow depth in pipe =   10.66(In.)
Flow top width inside pipe =   13.60(In.)
Critical Depth =   13.86(In.)
Pipe flow velocity =      9.66(Ft/s)
Travel time through pipe =    0.26 min.
Time of concentration (TC) =     9.18 min.
```

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      111.000 to Point/Station      114.000
**** CONFLUENCE OF MINOR STREAMS ****
----------------------------------------------------------------------
Along Main Stream number: 3 in normal stream number 1
Stream flow area =      2.710(Ac.)
Runoff from this stream =      9.008(CFS)
Time of concentration =    9.18 min.
Rainfall intensity =     3.703(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      112.000 to Point/Station      113.000
**** INITIAL AREA EVALUATION ****
----------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   700.000(Ft.)
Top (of initial area) elevation =   723.000(Ft.)
Bottom (of initial area) elevation =   717.000(Ft.)
Difference in elevation =     6.000(Ft.)
Slope =    0.00857  s(%)=       0.86
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   10.822 min.
Rainfall intensity =      3.353(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.880
Subarea runoff =     15.410(CFS)
Total initial stream area =        5.220(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      113.000 to Point/Station      114.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
----------------------------------------------------------------------
Upstream point/station elevation =   717.000(Ft.)
Downstream point/station elevation =   716.000(Ft.)
Pipe length  =    75.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    15.410(CFS)
Nearest computed pipe diameter  =     21.00(In.)
Calculated individual pipe flow  =    15.410(CFS)
Normal flow depth in pipe =   14.77(In.)
Flow top width inside pipe =   19.19(In.)
Critical Depth =   17.42(In.)
Pipe flow velocity =      8.53(Ft/s)
Travel time through pipe =    0.15 min.
Time of concentration (TC) =    10.97 min.


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Process from Point/Station      113.000 to Point/Station      114.000
```

**** CONFLUENCE OF MINOR STREAMS ****

Along Main Stream number: 3 in normal stream number 2
Stream flow area = 5.220(Ac.)
Runoff from this stream = 15.410(CFS)
Time of concentration = 10.97 min.
Rainfall intensity = 3.326(In/Hr)
Area averaged loss rate (Fm) = 0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream No.	Flow rate (CFS)	Area (Ac.)	TC (min)	Fm (In/Hr)	Rainfall Intensity (In/Hr)
1	9.01	2.710	9.18	0.073	3.703
2	15.41	5.220	10.97	0.073	3.326

Qmax(1) =
1.000 * 1.000 * 9.008) +
1.116 * 0.837 * 15.410) + = 23.389
Qmax(2) =
0.896 * 1.000 * 9.008) +
1.000 * 1.000 * 15.410) + = 23.484

Total of 2 streams to confluence:
Flow rates before confluence point:
9.008 15.410
Maximum flow rates at confluence using above data:
23.389 23.484
Area of streams before confluence:
2.710 5.220
Effective area values after confluence:
7.077 7.930
Results of confluence:
Total flow rate = 23.484(CFS)
Time of concentration = 10.968 min.
Effective stream area after confluence = 7.930(Ac.)
Study area average Pervious fraction(Ap) = 0.100
Study area average soil loss rate(Fm) = 0.073(In/Hr)
Study area total (this main stream) = 7.93(Ac.)

++
Process from Point/Station 114.000 to Point/Station 115.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 716.000(Ft.)
Downstream point/station elevation = 709.000(Ft.)
Pipe length = 285.00(Ft.) Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 23.484(CFS)
Nearest computed pipe diameter = 21.00(In.)
Calculated individual pipe flow = 23.484(CFS)
Normal flow depth in pipe = 16.27(In.)
Flow top width inside pipe = 17.55(In.)
Critical Depth = 19.93(In.)
Pipe flow velocity = 11.74(Ft/s)
Travel time through pipe = 0.40 min.
Time of concentration (TC) = 11.37 min.

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      114.000 to Point/Station      115.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 3
Stream flow area =      7.930(Ac.)
Runoff from this stream =     23.484(CFS)
Time of concentration =   11.37 min.
Rainfall intensity =     3.255(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min) (In/Hr)     (In/Hr)


1     32.23    10.078     11.11    0.073      3.301
2     32.53     9.123      8.17    0.073      3.970
3     23.48     7.930     11.37    0.073      3.255
Qmax(1) =
         1.000 *    1.000 *    32.235) +
         0.828 *    1.000 *    32.533) +
         1.014 *    0.977 *    23.484) + =      82.451
Qmax(2) =
         1.207 *    0.735 *    32.235) +
         1.000 *    1.000 *    32.533) +
         1.225 *    0.718 *    23.484) + =      81.799
Qmax(3) =
         0.986 *    1.000 *    32.235) +
         0.816 *    1.000 *    32.533) +
         1.000 *    1.000 *    23.484) + =      81.822

Total of 3 main streams to confluence:
Flow rates before confluence point:
      33.235      33.533      24.484
Maximum flow rates at confluence using above data:
       82.451       81.799       81.822
Area of streams before confluence:
       10.078        9.123        7.930
Effective area values after confluence:
       26.948       22.225       27.131


Results of confluence:
Total flow rate =     82.451(CFS)
Time of concentration =    11.111 min.
Effective stream area after confluence  =     26.948(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.073(In/Hr)
Study area total =      27.13(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      115.000 to Point/Station      118.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   709.000(Ft.)
Downstream point/station elevation =   708.000(Ft.)
```

```
Pipe length  =   150.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    82.451(CFS)
Nearest computed pipe diameter  =     45.00(In.)
Calculated individual pipe flow  =    82.451(CFS)
Normal flow depth in pipe =   31.45(In.)
Flow top width inside pipe =   41.28(In.)
Critical Depth =   33.57(In.)
Pipe flow velocity =     10.01(Ft/s)
Travel time through pipe =    0.25 min.
Time of concentration (TC) =    11.36 min.


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Process from Point/Station      115.000 to Point/Station      118.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     26.948(Ac.)
Runoff from this stream =     82.451(CFS)
Time of concentration =   11.36 min.
Rainfall intensity =     3.257(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      116.000 to Point/Station      117.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   452.000(Ft.)
Top (of initial area) elevation =   717.000(Ft.)
Bottom (of initial area) elevation =   710.000(Ft.)
Difference in elevation =     7.000(Ft.)
Slope =    0.01549  s(%)=       1.55
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    8.071 min.
Rainfall intensity =      3.999(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.883
Subarea runoff =      7.949(CFS)
Total initial stream area =        2.250(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      117.000 to Point/Station      118.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   710.000(Ft.)
Downstream point/station elevation =   709.000(Ft.)
```

```
Pipe length  =   220.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     7.949(CFS)
Nearest computed pipe diameter  =     21.00(In.)
Calculated individual pipe flow  =     7.949(CFS)
Normal flow depth in pipe =   13.50(In.)
Flow top width inside pipe =   20.12(In.)
Critical Depth =   12.55(In.)
Pipe flow velocity =      4.87(Ft/s)
Travel time through pipe =    0.75 min.
Time of concentration (TC) =     8.82 min.


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Process from Point/Station      117.000 to Point/Station      118.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      2.250(Ac.)
Runoff from this stream =      7.949(CFS)
Time of concentration =    8.82 min.
Rainfall intensity =     3.790(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min) (In/Hr)     (In/Hr)


1     82.45    26.948     11.36    0.073      3.257
2      7.95     2.250      8.82    0.073      3.790
Qmax(1) =
         1.000 *    1.000 *    82.451) +
         0.857 *    1.000 *     7.949) + =      89.260
Qmax(2) =
         1.167 *    0.777 *    82.451) +
         1.000 *    1.000 *     7.949) + =      82.716

Total of 2 main streams to confluence:
Flow rates before confluence point:
      83.451       8.949
Maximum flow rates at confluence using above data:
       89.260       82.716
Area of streams before confluence:
       26.948        2.250
Effective area values after confluence:
       29.198       23.182


Results of confluence:
Total flow rate =     89.260(CFS)
Time of concentration =    11.361 min.
Effective stream area after confluence  =     29.198(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.073(In/Hr)
Study area total =      29.20(Ac.)


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Process from Point/Station 118.000 to Point/Station 119.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 709.000(Ft.)
Downstream point/station elevation = 700.000(Ft.)
Pipe length = 250.00(Ft.) Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 89.260(CFS)
Nearest computed pipe diameter = 33.00(In.)
Calculated individual pipe flow = 89.260(CFS)
Normal flow depth in pipe = 24.23(In.)
Flow top width inside pipe = 29.15(In.)
Critical depth could not be calculated.
Pipe flow velocity = 19.09(Ft/s)
Travel time through pipe = 0.22 min.
Time of concentration (TC) = 11.58 min.
End of computations, Total Study Area = 33.91 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged SCS curve number = 56.0

APPENDIX A.2: RATIONAL METHOD ANALYSIS, AREAS "B"

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 03/09/23

EUCLID AVE
ONSITE RATIONAL METHOD
100 YEAR STORM
AREA B

Program License Serial Number 6279

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.200 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 2

++
Process from Point/Station 201.000 to Point/Station 202.000
**** INITIAL AREA EVALUATION ****

COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 56.00
Pervious ratio(Ap) = 0.1000 Max loss rate(Fm)= 0.073(In/Hr)
Initial subarea data:
Initial area flow distance = 357.000(Ft.)
Top (of initial area) elevation = 714.000(Ft.)
Bottom (of initial area) elevation = 710.000(Ft.)
Difference in elevation = 4.000(Ft.)
Slope = 0.01120 s(%)= 1.12
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 7.835 min.
Rainfall intensity = 4.070(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.884
Subarea runoff = 15.324(CFS)
Total initial stream area = 4.260(Ac.)
Pervious area fraction = 0.100
Initial area Fm value = 0.073(In/Hr)

++
Process from Point/Station 202.000 to Point/Station 205.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 710.000(Ft.)

```
Downstream point/station elevation =   700.000(Ft.)
Pipe length  =   934.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    15.324(CFS)
Nearest computed pipe diameter  =     21.00(In.)
Calculated individual pipe flow  =    15.324(CFS)
Normal flow depth in pipe =   16.10(In.)
Flow top width inside pipe =   17.76(In.)
Critical Depth =   17.37(In.)
Pipe flow velocity =      7.75(Ft/s)
Travel time through pipe =    2.01 min.
Time of concentration (TC) =     9.84 min.


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Process from Point/Station      202.000 to Point/Station      205.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      4.260(Ac.)
Runoff from this stream =     15.324(CFS)
Time of concentration =    9.84 min.
Rainfall intensity =     3.549(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      203.000 to Point/Station      204.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   225.000(Ft.)
Top (of initial area) elevation =   705.000(Ft.)
Bottom (of initial area) elevation =   700.000(Ft.)
Difference in elevation =     5.000(Ft.)
Slope =    0.02222  s(%)=       2.22
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    5.681 min.
Rainfall intensity =      4.937(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.887
Subarea runoff =      7.047(CFS)
Total initial stream area =        1.610(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      204.000 to Point/Station      205.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   700.000(Ft.)
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Downstream point/station elevation =   699.000(Ft.)
Pipe length  =    25.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     7.047(CFS)
Nearest computed pipe diameter  =     12.00(In.)
Calculated individual pipe flow  =     7.047(CFS)
Normal flow depth in pipe =    9.73(In.)
Flow top width inside pipe =    9.40(In.)
Critical depth could not be calculated.
Pipe flow velocity =     10.34(Ft/s)
Travel time through pipe =    0.04 min.
Time of concentration (TC) =     5.72 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      204.000 to Point/Station      205.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      1.610(Ac.)
Runoff from this stream =      7.047(CFS)
Time of concentration =    5.72 min.
Rainfall intensity =     4.916(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min)  (In/Hr)     (In/Hr)


1     15.32     4.260      9.84    0.073      3.549
2      7.05     1.610      5.72    0.073      4.916
Qmax(1) =
         1.000 *    1.000 *    15.324) +
         0.718 *    1.000 *     7.047) + =      20.383
Qmax(2) =
         1.393 *    0.581 *    15.324) +
         1.000 *    1.000 *     7.047) + =      19.453

Total of 2 main streams to confluence:
Flow rates before confluence point:
      16.324       8.047
Maximum flow rates at confluence using above data:
       20.383       19.453
Area of streams before confluence:
        4.260        1.610
Effective area values after confluence:
        5.870        4.085


Results of confluence:
Total flow rate =     20.383(CFS)
Time of concentration =     9.845 min.
Effective stream area after confluence  =      5.870(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.073(In/Hr)
Study area total =       5.87(Ac.)
```

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++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      205.000 to Point/Station      213.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
----------------------------------------------------------------------------
Upstream point/station elevation =   699.000(Ft.)
Downstream point/station elevation =   698.000(Ft.)
Pipe length  =   275.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    20.383(CFS)
Nearest computed pipe diameter  =     30.00(In.)
Calculated individual pipe flow  =    20.383(CFS)
Normal flow depth in pipe =   20.74(In.)
Flow top width inside pipe =   27.71(In.)
Critical Depth =   18.40(In.)
Pipe flow velocity =      5.63(Ft/s)
Travel time through pipe =    0.81 min.
Time of concentration (TC) =    10.66 min.


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Process from Point/Station      205.000 to Point/Station      213.000
**** CONFLUENCE OF MAIN STREAMS ****
----------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =      5.870(Ac.)
Runoff from this stream =     20.383(CFS)
Time of concentration =   10.66 min.
Rainfall intensity =     3.384(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      206.000 to Point/Station      207.000
**** INITIAL AREA EVALUATION ****
----------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   550.000(Ft.)
Top (of initial area) elevation =   706.000(Ft.)
Bottom (of initial area) elevation =   700.000(Ft.)
Difference in elevation =     6.000(Ft.)
Slope =    0.01091  s(%)=       1.09
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.364 min.
Rainfall intensity =      3.658(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.882
Subarea runoff =     17.097(CFS)
Total initial stream area =        5.300(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)
```

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      207.000 to Point/Station      210.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
----------------------------------------------------------------------
Upstream point/station elevation =   700.000(Ft.)
Downstream point/station elevation =   699.000(Ft.)
Pipe length  =    25.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    17.097(CFS)
Nearest computed pipe diameter  =     18.00(In.)
Calculated individual pipe flow  =    17.097(CFS)
Normal flow depth in pipe =   12.33(In.)
Flow top width inside pipe =   16.72(In.)
Critical depth could not be calculated.
Pipe flow velocity =     13.25(Ft/s)
Travel time through pipe =    0.03 min.
Time of concentration (TC) =     9.40 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      207.000 to Point/Station      210.000
**** CONFLUENCE OF MINOR STREAMS ****
----------------------------------------------------------------------
Along Main Stream number: 2 in normal stream number 1
Stream flow area =      5.300(Ac.)
Runoff from this stream =     17.097(CFS)
Time of concentration =    9.40 min.
Rainfall intensity =     3.650(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      208.000 to Point/Station      209.000
**** INITIAL AREA EVALUATION ****
----------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   310.000(Ft.)
Top (of initial area) elevation =   704.000(Ft.)
Bottom (of initial area) elevation =   700.000(Ft.)
Difference in elevation =     4.000(Ft.)
Slope =    0.01290  s(%)=       1.29
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    7.199 min.
Rainfall intensity =      4.283(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.885
Subarea runoff =     11.971(CFS)
Total initial stream area =        3.160(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)


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Process from Point/Station      209.000 to Point/Station      210.000
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**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   700.000(Ft.)
Downstream point/station elevation =   699.000(Ft.)
Pipe length  =    75.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    11.971(CFS)
Nearest computed pipe diameter  =     18.00(In.)
Calculated individual pipe flow  =    11.971(CFS)
Normal flow depth in pipe =   14.53(In.)
Flow top width inside pipe =   14.20(In.)
Critical Depth =   15.76(In.)
Pipe flow velocity =      7.82(Ft/s)
Travel time through pipe =    0.16 min.
Time of concentration (TC) =     7.36 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      209.000 to Point/Station      210.000
**** CONFLUENCE OF MINOR STREAMS ****
------------------------------------------------------------------------
Along Main Stream number: 2 in normal stream number 2
Stream flow area =      3.160(Ac.)
Runoff from this stream =     11.971(CFS)
Time of concentration =    7.36 min.
Rainfall intensity =     4.227(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min) (In/Hr)     (In/Hr)


1     17.10     5.300      9.40    0.073      3.650
2     11.97     3.160      7.36    0.073      4.227
Qmax(1) =
         1.000 *    1.000 *    17.097) +
         0.861 *    1.000 *    11.971) + =      27.406
Qmax(2) =
         1.161 *    0.783 *    17.097) +
         1.000 *    1.000 *    11.971) + =      27.519

Total of 2 streams to confluence:
Flow rates before confluence point:
      17.097      11.971
Maximum flow rates at confluence using above data:
       27.406       27.519
Area of streams before confluence:
        5.300        3.160
Effective area values after confluence:
        8.460        7.311
Results of confluence:
Total flow rate =     27.519(CFS)
Time of concentration =     7.359 min.
Effective stream area after confluence =      7.311(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.073(In/Hr)
Study area total (this main stream) =       8.46(Ac.)
```

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      210.000 to Point/Station      213.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
----------------------------------------------------------------------------
Upstream point/station elevation =   699.000(Ft.)
Downstream point/station elevation =   698.000(Ft.)
Pipe length  =   206.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    27.519(CFS)
Nearest computed pipe diameter  =     30.00(In.)
Calculated individual pipe flow  =    27.519(CFS)
Normal flow depth in pipe =   23.63(In.)
Flow top width inside pipe =   24.54(In.)
Critical Depth =   21.45(In.)
Pipe flow velocity =      6.63(Ft/s)
Travel time through pipe =    0.52 min.
Time of concentration (TC) =     7.88 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      210.000 to Point/Station      213.000
**** CONFLUENCE OF MAIN STREAMS ****
----------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      7.311(Ac.)
Runoff from this stream =     27.519(CFS)
Time of concentration =    7.88 min.
Rainfall intensity =     4.058(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 3


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      211.000 to Point/Station      212.000
**** INITIAL AREA EVALUATION ****
----------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   183.000(Ft.)
Top (of initial area) elevation =   703.000(Ft.)
Bottom (of initial area) elevation =   700.000(Ft.)
Difference in elevation =     3.000(Ft.)
Slope =    0.01639  s(%)=       1.64
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    5.558 min.
Rainfall intensity =      5.002(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.887
Subarea runoff =      8.250(CFS)
Total initial stream area =        1.860(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)
```

```
++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      212.000 to Point/Station      213.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------------
Upstream point/station elevation =   700.000(Ft.)
Downstream point/station elevation =   698.000(Ft.)
Pipe length  =   240.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     8.250(CFS)
Nearest computed pipe diameter  =     18.00(In.)
Calculated individual pipe flow  =     8.250(CFS)
Normal flow depth in pipe =   12.87(In.)
Flow top width inside pipe =   16.25(In.)
Critical Depth =   13.35(In.)
Pipe flow velocity =      6.10(Ft/s)
Travel time through pipe =    0.66 min.
Time of concentration (TC) =     6.21 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      212.000 to Point/Station      213.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 3
Stream flow area =      1.860(Ac.)
Runoff from this stream =      8.250(CFS)
Time of concentration =    6.21 min.
Rainfall intensity =     4.678(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min) (In/Hr)     (In/Hr)


1     20.38     5.870     10.66    0.073      3.384
2     27.52     7.311      7.88    0.073      4.058
3      8.25     1.860      6.21    0.073      4.678
Qmax(1) =
         1.000 *    1.000 *    20.383) +
         0.831 *    1.000 *    27.519) +
         0.719 *    1.000 *     8.250) + =      49.181
Qmax(2) =
         1.203 *    0.739 *    20.383) +
         1.000 *    1.000 *    27.519) +
         0.865 *    1.000 *     8.250) + =      52.783
Qmax(3) =
         1.391 *    0.583 *    20.383) +
         1.156 *    0.789 *    27.519) +
         1.000 *    1.000 *     8.250) + =      49.865

Total of 3 main streams to confluence:
Flow rates before confluence point:
      21.383      28.519       9.250
Maximum flow rates at confluence using above data:
       49.181       52.783       49.865
Area of streams before confluence:
        5.870        7.311        1.860
Effective area values after confluence:
```

```
       15.041       13.509       11.049


Results of confluence:
Total flow rate =     52.783(CFS)
Time of concentration =     7.877 min.
Effective stream area after confluence  =     13.509(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.073(In/Hr)
Study area total =      15.04(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      213.000 to Point/Station      214.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------------
Upstream point/station elevation =   698.000(Ft.)
Downstream point/station elevation =   695.000(Ft.)
Pipe length  =   245.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    52.783(CFS)
Nearest computed pipe diameter  =     33.00(In.)
Calculated individual pipe flow  =    52.783(CFS)
Normal flow depth in pipe =   24.52(In.)
Flow top width inside pipe =   28.84(In.)
Critical Depth =   28.54(In.)
Pipe flow velocity =     11.15(Ft/s)
Travel time through pipe =    0.37 min.
Time of concentration (TC) =     8.24 min.
End of computations, Total Study Area =           16.19 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged SCS curve number =  56.0
```

APPENDIX A.3: RATIONAL METHOD ANALYSIS, AREAS "C"

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 03/09/23

EUCLID AVE
ONSITE RATIONAL METHOD
100 YEAR STORM
AREA C

Program License Serial Number 6279

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.200 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 2

++
Process from Point/Station 301.000 to Point/Station 304.000
**** INITIAL AREA EVALUATION ****

COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 56.00
Pervious ratio(Ap) = 0.1000 Max loss rate(Fm)= 0.073(In/Hr)
Initial subarea data:
Initial area flow distance = 459.000(Ft.)
Top (of initial area) elevation = 697.000(Ft.)
Bottom (of initial area) elevation = 691.000(Ft.)
Difference in elevation = 6.000(Ft.)
Slope = 0.01307 s(%)= 1.31
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 8.401 min.
Rainfall intensity = 3.904(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.883
Subarea runoff = 17.167(CFS)
Total initial stream area = 4.980(Ac.)
Pervious area fraction = 0.100
Initial area Fm value = 0.073(In/Hr)

++
Process from Point/Station 301.000 to Point/Station 304.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

```
In Main Stream number: 1
Stream flow area =      4.980(Ac.)
Runoff from this stream =     17.167(CFS)
Time of concentration =    8.40 min.
Rainfall intensity =     3.904(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      302.000 to Point/Station      303.000
**** INITIAL AREA EVALUATION ****
----------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Initial subarea data:
Initial area flow distance =   751.000(Ft.)
Top (of initial area) elevation =   700.000(Ft.)
Bottom (of initial area) elevation =   694.000(Ft.)
Difference in elevation =     6.000(Ft.)
Slope =    0.00799  s(%)=       0.80
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =   11.288 min.
Rainfall intensity =      3.270(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.880
Subarea runoff =      9.982(CFS)
Total initial stream area =        3.470(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.073(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      303.000 to Point/Station      304.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
----------------------------------------------------------------------
Upstream point/station elevation =   694.000(Ft.)
Downstream point/station elevation =   691.000(Ft.)
Pipe length  =   303.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =     9.982(CFS)
Nearest computed pipe diameter  =     18.00(In.)
Calculated individual pipe flow  =     9.982(CFS)
Normal flow depth in pipe =   14.06(In.)
Flow top width inside pipe =   14.88(In.)
Critical Depth =   14.61(In.)
Pipe flow velocity =      6.73(Ft/s)
Travel time through pipe =    0.75 min.
Time of concentration (TC) =    12.04 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      303.000 to Point/Station      304.000
**** CONFLUENCE OF MAIN STREAMS ****
----------------------------------------------------------------------
The following data inside Main Stream is listed:
```

```
In Main Stream number: 2
Stream flow area =      3.470(Ac.)
Runoff from this stream =      9.982(CFS)
Time of concentration =   12.04 min.
Rainfall intensity =     3.146(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min) (In/Hr)     (In/Hr)


1     17.17     4.980      8.40    0.073      3.904
2      9.98     3.470     12.04    0.073      3.146
Qmax(1) =
         1.000 *    1.000 *    17.167) +
         1.247 *    0.698 *     9.982) + =      25.851
Qmax(2) =
         0.802 *    1.000 *    17.167) +
         1.000 *    1.000 *     9.982) + =      23.752

Total of 2 main streams to confluence:
Flow rates before confluence point:
      18.167      10.982
Maximum flow rates at confluence using above data:
       25.851       23.752
Area of streams before confluence:
        4.980        3.470
Effective area values after confluence:
        7.402        8.450


Results of confluence:
Total flow rate =     25.851(CFS)
Time of concentration =     8.401 min.
Effective stream area after confluence  =      7.402(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.073(In/Hr)
Study area total =       8.45(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      304.000 to Point/Station      305.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   691.000(Ft.)
Downstream point/station elevation =   687.000(Ft.)
Pipe length  =   343.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =    25.851(CFS)
Nearest computed pipe diameter  =     27.00(In.)
Calculated individual pipe flow  =    25.851(CFS)
Normal flow depth in pipe =   17.81(In.)
Flow top width inside pipe =   25.59(In.)
Critical Depth =   21.30(In.)
Pipe flow velocity =      9.28(Ft/s)
Travel time through pipe =    0.62 min.
Time of concentration (TC) =     9.02 min.
End of computations, Total Study Area =            8.45 (Ac.)
The following figures may
```

be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged SCS curve number = 56.0

APPENDIX A.4: RATIONAL METHOD ANALYSIS, AREAS "TOTAL"

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 03/09/23

EUCLID AVE
ONSITE RATIONAL METHOD
100 YEAR STORM
TOTAL AREA

Program License Serial Number 6279

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.200 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 2

++

Process from Point/Station 119.000 to Point/Station 119.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****

COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 56.00
Pervious ratio(Ap) = 0.1000 Max loss rate(Fm)= 0.073(In/Hr)
Rainfall intensity = 3.220(In/Hr) for a 100.0 year storm
User specified values are as follows:
TC = 11.58 min. Rain intensity = 3.22(In/Hr)
Total area this stream = 33.91(Ac.)
Total Study Area (Main Stream No. 1) = 33.91(Ac.)
Total runoff = 89.26(CFS)

++

Process from Point/Station 119.000 to Point/Station 214.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****

Upstream point/station elevation = 700.000(Ft.)
Downstream point/station elevation = 695.000(Ft.)
Pipe length = 781.00(Ft.) Manning's N = 0.013
No. of pipes = 1 Required pipe flow = 89.260(CFS)
Nearest computed pipe diameter = 45.00(In.)
Calculated individual pipe flow = 89.260(CFS)
Normal flow depth in pipe = 34.08(In.)
Flow top width inside pipe = 38.58(In.)
Critical Depth = 34.88(In.)

```
Pipe flow velocity =      9.94(Ft/s)
Travel time through pipe =    1.31 min.
Time of concentration (TC) =    12.89 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      119.000 to Point/Station      214.000
**** CONFLUENCE OF MAIN STREAMS ****
----------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     33.910(Ac.)
Runoff from this stream =     89.260(CFS)
Time of concentration =   12.89 min.
Rainfall intensity =     3.020(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      214.000 to Point/Station      214.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****
----------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Rainfall intensity =      3.949(In/Hr) for a   100.0 year storm
User specified values are as follows:
TC =   8.24 min.  Rain intensity =       3.95(In/Hr)
Total area this stream =        16.19(Ac.)
Total Study Area (Main Stream No. 2) =       50.10(Ac.)
Total runoff =     52.78(CFS)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      214.000 to Point/Station      214.000
**** CONFLUENCE OF MAIN STREAMS ****
----------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =     16.190(Ac.)
Runoff from this stream =     52.780(CFS)
Time of concentration =    8.24 min.
Rainfall intensity =     3.949(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min) (In/Hr)     (In/Hr)


1     89.26    33.910     12.89    0.073      3.020
2     52.78    16.190      8.24    0.073      3.949
Qmax(1) =
```

```
         1.000 *    1.000 *    89.260) +
         0.760 *    1.000 *    52.780) + =     129.379
Qmax(2) =
         1.316 *    0.639 *    89.260) +
         1.000 *    1.000 *    52.780) + =     127.852

Total of 2 main streams to confluence:
Flow rates before confluence point:
      90.260      53.780
Maximum flow rates at confluence using above data:
      129.379      127.852
Area of streams before confluence:
       33.910       16.190
Effective area values after confluence:
       50.100       37.868


Results of confluence:
Total flow rate =    129.379(CFS)
Time of concentration =    12.889 min.
Effective stream area after confluence  =     50.100(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.073(In/Hr)
Study area total =      50.10(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      214.000 to Point/Station      305.000
**** PIPEFLOW TRAVEL TIME (Program estimated size) ****
------------------------------------------------------------------------
Upstream point/station elevation =   695.000(Ft.)
Downstream point/station elevation =   687.000(Ft.)
Pipe length  =   450.00(Ft.)   Manning's N = 0.013
No. of pipes = 1  Required pipe flow  =   129.379(CFS)
Nearest computed pipe diameter  =     42.00(In.)
Calculated individual pipe flow  =   129.379(CFS)
Normal flow depth in pipe =   33.14(In.)
Flow top width inside pipe =   34.27(In.)
Critical Depth =   39.67(In.)
Pipe flow velocity =     15.88(Ft/s)
Travel time through pipe =    0.47 min.
Time of concentration (TC) =    13.36 min.


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      214.000 to Point/Station      305.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 1
Stream flow area =     50.100(Ac.)
Runoff from this stream =    129.379(CFS)
Time of concentration =   13.36 min.
Rainfall intensity =     2.955(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
```

```
Process from Point/Station      305.000 to Point/Station      305.000
**** USER DEFINED FLOW INFORMATION AT A POINT ****
------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 56.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.073(In/Hr)
Rainfall intensity =      3.741(In/Hr) for a   100.0 year storm
User specified values are as follows:
TC =   9.02 min.  Rain intensity =       3.74(In/Hr)
Total area this stream =         8.45(Ac.)
Total Study Area (Main Stream No. 2) =       58.55(Ac.)
Total runoff =     25.85(CFS)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      305.000 to Point/Station      305.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      8.450(Ac.)
Runoff from this stream =     25.850(CFS)
Time of concentration =    9.02 min.
Rainfall intensity =     3.741(In/Hr)
Area averaged loss rate (Fm) =    0.0734(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min) (In/Hr)     (In/Hr)


1    129.38    50.100     13.36    0.073      2.955
2     25.85     8.450      9.02    0.073      3.741
Qmax(1) =
         1.000 *    1.000 *   129.379) +
         0.786 *    1.000 *    25.850) + =     149.691
Qmax(2) =
         1.273 *    0.675 *   129.379) +
         1.000 *    1.000 *    25.850) + =     137.003

Total of 2 main streams to confluence:
Flow rates before confluence point:
     130.379      26.850
Maximum flow rates at confluence using above data:
      149.691      137.003
Area of streams before confluence:
       50.100        8.450
Effective area values after confluence:
       58.550       42.271


Results of confluence:
Total flow rate =    149.691(CFS)
Time of concentration =    13.361 min.
Effective stream area after confluence  =     58.550(Ac.)
```

Study area average Pervious fraction(Ap) = 0.100
Study area average soil loss rate(Fm) = 0.073(In/Hr)
Study area total = 58.55(Ac.)
End of computations, Total Study Area = 58.55 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.100
Area averaged SCS curve number = 56.0

APPENDIX B: PRE-PROJECT ONSITE UNIT HYDROGRAPH CALCULATIONS

APPENDIX B.1: PRE-PROJECT UNIT HYDROGRAPH PARAMETERS TABLE

254.24 EUCLID MIXED USE SPECIFIC PLAN

Pre-Project Unit Hydrograph Input Parameters

Method

Use ratio between existing n and proposed n to alter the Tc and use for the lag time computaiton

(post Tc) * (0.035/0.013) = (pre Tc)

LAG TIME RATIO
2.692

Lag time = 0.8 * time of concentration

Use open space poor cover for existing condition land use

AP = 1		
	Soil A	62
	Soil B	76
	Soil C	84
	Soil D	88

Area	Acres	Proposed Condition lag time (min)	Proposed lag time (hr)	Existing Condition lag time (hr)	Soil Type B Area %	Existing Conditon Curve Number
A1	4.61	12.03	0.201	**0.540**	100%	**76.0**
A2	6.51	9.60	0.160	**0.431**	100%	**76.0**
A3	4.78	8.11	0.135	**0.364**	100%	**76.0**
A4	7.83	14.02	0.234	**0.629**	100%	**76.0**
A5	2.71	8.92	0.149	**0.400**	100%	**76.0**
A6	5.22	10.82	0.180	**0.486**	100%	**76.0**
A7	2.25	8.07	0.135	**0.362**	100%	**76.0**
B1	4.26	7.84	0.131	**0.352**	100%	**76.0**
B2	1.61	5.68	0.095	**0.255**	100%	**76.0**
B3	5.30	9.36	0.156	**0.420**	100%	**76.0**
B4	3.16	7.20	0.120	**0.323**	100%	**76.0**
B5	1.86	5.56	0.093	**0.249**	100%	**76.0**
C1	4.98	8.40	0.140	**0.377**	100%	**76.0**
C2	3.47	11.29	0.188	**0.507**	100%	**76.0**

APPENDIX B.2: UNIT HYDROGRAPH ANALYSIS, AREA "A"

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA A1
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
4.61	1	1.20
Rainfall data for year 100		
4.61	6	3.00
Rainfall data for year 100		
4.61	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	4.61	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
4.61	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.540 (hours)
++
Watershed area = 4.61(Ac.)
Catchment Lag time = 0.432 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 19.2901
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 4.61(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 55.75 (CFS))		
1	1.704	0.950
2	6.551	2.703
3	14.962	4.689
4	26.851	6.628
5	40.500	7.610
6	53.146	7.050
7	61.923	4.894
8	68.000	3.388
9	72.316	2.406
10	75.521	1.787
11	78.269	1.532
12	80.599	1.299
13	82.612	1.123
14	84.417	1.006

15	86.029	0.899
16	87.405	0.767
17	88.597	0.665
18	89.755	0.645
19	90.799	0.582
20	91.651	0.475
21	92.492	0.469
22	93.172	0.379
23	93.789	0.344
24	94.397	0.339
25	94.978	0.324
26	95.556	0.322
27	96.046	0.273
28	96.471	0.237
29	96.886	0.231
30	97.243	0.199
31	97.590	0.194
32	97.907	0.176
33	98.177	0.151
34	98.444	0.149
35	98.655	0.118
36	98.848	0.108
37	99.041	0.108
38	99.234	0.108
39	99.427	0.108
40	99.620	0.108
41	99.812	0.108
42	100.000	0.105

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7731	0.0840
5	0.8453	0.0722
6	0.9092	0.0639
7	0.9671	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1154	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3448	0.0466
16	1.3900	0.0451
17	1.4337	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8166	0.0347
28	1.8507	0.0341

29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0130	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190

88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147

147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124

206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109

265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064

31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080

90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124

149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0208
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0404	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0639	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4440	0.0364	0.4076
194	0.0840	0.0364	0.0476
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0175
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155

208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067

267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 5.32(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q				
0+10	0.0002	0.02	Q				
0+15	0.0005	0.05	Q				
0+20	0.0011	0.09	Q				
0+25	0.0020	0.13	Q				
0+30	0.0033	0.17	Q				
0+35	0.0047	0.20	Q				
0+40	0.0062	0.22	Q				
0+45	0.0078	0.24	Q				
0+50	0.0096	0.25	VQ				
0+55	0.0114	0.26	VQ				
1+ 0	0.0132	0.27	VQ				
1+ 5	0.0151	0.28	VQ				
1+10	0.0170	0.28	VQ				
1+15	0.0190	0.29	VQ				
1+20	0.0211	0.29	VQ				
1+25	0.0231	0.30	VQ				
1+30	0.0252	0.30	VQ				
1+35	0.0273	0.31	VQ				
1+40	0.0294	0.31	VQ				
1+45	0.0316	0.31	VQ				
1+50	0.0338	0.32	VQ				

1+55	0.0360	0.32	Q				
2+ 0	0.0382	0.32	Q				
2+ 5	0.0405	0.33	Q				
2+10	0.0427	0.33	Q				
2+15	0.0450	0.33	Q				
2+20	0.0473	0.33	Q				
2+25	0.0496	0.34	Q				
2+30	0.0520	0.34	Q				
2+35	0.0543	0.34	Q				
2+40	0.0567	0.34	Q				
2+45	0.0591	0.34	Q				
2+50	0.0614	0.35	Q				
2+55	0.0638	0.35	Q				
3+ 0	0.0662	0.35	Q				
3+ 5	0.0687	0.35	QV				
3+10	0.0711	0.35	QV				
3+15	0.0735	0.35	QV				
3+20	0.0760	0.36	QV				
3+25	0.0785	0.36	QV				
3+30	0.0809	0.36	QV				
3+35	0.0834	0.36	QV				
3+40	0.0859	0.36	QV				
3+45	0.0884	0.36	QV				
3+50	0.0909	0.36	QV				
3+55	0.0935	0.37	QV				
4+ 0	0.0960	0.37	QV				
4+ 5	0.0985	0.37	QV				
4+10	0.1011	0.37	QV				
4+15	0.1036	0.37	Q V				
4+20	0.1062	0.37	Q V				
4+25	0.1088	0.37	Q V				
4+30	0.1114	0.37	Q V				
4+35	0.1139	0.38	Q V				
4+40	0.1165	0.38	Q V				
4+45	0.1191	0.38	Q V				
4+50	0.1218	0.38	Q V				
4+55	0.1244	0.38	Q V				
5+ 0	0.1270	0.38	Q V				
5+ 5	0.1297	0.38	Q V				
5+10	0.1323	0.39	Q V				
5+15	0.1350	0.39	Q V				
5+20	0.1377	0.39	Q V				
5+25	0.1403	0.39	Q V				
5+30	0.1430	0.39	Q V				
5+35	0.1457	0.39	Q V				
5+40	0.1485	0.39	Q V				
5+45	0.1512	0.40	Q V				
5+50	0.1539	0.40	Q V				
5+55	0.1567	0.40	Q V				
6+ 0	0.1594	0.40	Q V				
6+ 5	0.1622	0.40	Q V				
6+10	0.1650	0.40	Q V				
6+15	0.1677	0.40	Q V				
6+20	0.1705	0.41	Q V				
6+25	0.1734	0.41	Q V				
6+30	0.1762	0.41	Q V				
6+35	0.1790	0.41	Q V				
6+40	0.1819	0.41	Q V				
6+45	0.1847	0.41	Q V				

6+50	0.1876	0.42	Q V	|	|	|	|
6+55	0.1905	0.42	Q V	|	|	|	|
7+ 0	0.1934	0.42	Q V	|	|	|	|
7+ 5	0.1963	0.42	Q V	|	|	|	|
7+10	0.1992	0.42	Q V	|	|	|	|
7+15	0.2021	0.43	Q V	|	|	|	|
7+20	0.2051	0.43	Q V	|	|	|	|
7+25	0.2080	0.43	Q V	|	|	|	|
7+30	0.2110	0.43	Q V	|	|	|	|
7+35	0.2140	0.43	Q V	|	|	|	|
7+40	0.2170	0.44	Q V	|	|	|	|
7+45	0.2200	0.44	Q V	|	|	|	|
7+50	0.2230	0.44	Q V	|	|	|	|
7+55	0.2261	0.44	Q V	|	|	|	|
8+ 0	0.2291	0.44	Q V	|	|	|	|
8+ 5	0.2322	0.45	Q V	|	|	|	|
8+10	0.2353	0.45	Q V	|	|	|	|
8+15	0.2384	0.45	Q V	|	|	|	|
8+20	0.2415	0.45	Q V	|	|	|	|
8+25	0.2446	0.45	Q V	|	|	|	|
8+30	0.2478	0.46	Q V	|	|	|	|
8+35	0.2510	0.46	Q V	|	|	|	|
8+40	0.2541	0.46	Q V	|	|	|	|
8+45	0.2573	0.46	Q V	|	|	|	|
8+50	0.2606	0.47	Q V	|	|	|	|
8+55	0.2638	0.47	Q V	|	|	|	|
9+ 0	0.2670	0.47	Q V	|	|	|	|
9+ 5	0.2703	0.47	Q V	|	|	|	|
9+10	0.2736	0.48	Q V	|	|	|	|
9+15	0.2769	0.48	Q V	|	|	|	|
9+20	0.2802	0.48	Q V	|	|	|	|
9+25	0.2836	0.49	Q V	|	|	|	|
9+30	0.2869	0.49	Q V	|	|	|	|
9+35	0.2903	0.49	Q V	|	|	|	|
9+40	0.2937	0.49	Q V	|	|	|	|
9+45	0.2971	0.50	Q V	|	|	|	|
9+50	0.3006	0.50	Q V	|	|	|	|
9+55	0.3040	0.50	Q V	|	|	|	|
10+ 0	0.3075	0.51	Q V	|	|	|	|
10+ 5	0.3110	0.51	Q V	|	|	|	|
10+10	0.3146	0.51	Q V	|	|	|	|
10+15	0.3181	0.52	Q V	|	|	|	|
10+20	0.3217	0.52	Q V	|	|	|	|
10+25	0.3253	0.52	Q V	|	|	|	|
10+30	0.3289	0.53	Q V	|	|	|	|
10+35	0.3326	0.53	Q V	|	|	|	|
10+40	0.3363	0.53	Q V	|	|	|	|
10+45	0.3400	0.54	Q V	|	|	|	|
10+50	0.3437	0.54	Q V	|	|	|	|
10+55	0.3474	0.55	Q V	|	|	|	|
11+ 0	0.3512	0.55	Q V	|	|	|	|
11+ 5	0.3550	0.55	Q V	|	|	|	|
11+10	0.3589	0.56	Q V	|	|	|	|
11+15	0.3627	0.56	Q V	|	|	|	|
11+20	0.3666	0.57	Q V	|	|	|	|
11+25	0.3706	0.57	Q V	|	|	|	|
11+30	0.3745	0.58	Q V	|	|	|	|
11+35	0.3785	0.58	Q V	|	|	|	|
11+40	0.3826	0.58	Q V	|	|	|	|

11+45	0.3866	0.59	Q	V			
11+50	0.3907	0.59	Q	V			
11+55	0.3949	0.60	Q	V			
12+ 0	0.3990	0.61	Q	V			
12+ 5	0.4032	0.61	Q	V			
12+10	0.4075	0.62	Q	V			
12+15	0.4118	0.62	Q	V			
12+20	0.4161	0.63	Q	V			
12+25	0.4206	0.64	Q	V			
12+30	0.4250	0.65	Q	V			
12+35	0.4296	0.66	Q	V			
12+40	0.4341	0.66	Q	V			
12+45	0.4388	0.67	Q	V			
12+50	0.4435	0.68	Q	V			
12+55	0.4482	0.69	Q	V			
13+ 0	0.4530	0.70	Q	V			
13+ 5	0.4578	0.70	Q	V			
13+10	0.4627	0.71	Q	V			
13+15	0.4677	0.72	Q	V			
13+20	0.4728	0.73	Q	V			
13+25	0.4779	0.74	Q	V			
13+30	0.4830	0.75	Q	V			
13+35	0.4883	0.76	Q	V			
13+40	0.4936	0.77	Q	V			
13+45	0.4990	0.78	Q	V			
13+50	0.5044	0.79	Q	V			
13+55	0.5100	0.81	Q	V			
14+ 0	0.5156	0.82	Q	V			
14+ 5	0.5214	0.83	Q	V			
14+10	0.5272	0.85	Q	V			
14+15	0.5331	0.86	Q	V			
14+20	0.5391	0.88	Q	V			
14+25	0.5453	0.89	Q	V			
14+30	0.5516	0.91	Q	V			
14+35	0.5580	0.93	Q	V			
14+40	0.5645	0.95	Q	V			
14+45	0.5712	0.97	Q	V			
14+50	0.5780	0.99	Q	V			
14+55	0.5850	1.02	Q	V			
15+ 0	0.5922	1.04	Q	V			
15+ 5	0.5996	1.07	Q	V			
15+10	0.6073	1.11	Q	V			
15+15	0.6151	1.14	Q	V			
15+20	0.6232	1.18	Q	V			
15+25	0.6316	1.22	Q	V			
15+30	0.6402	1.25	Q	V			
15+35	0.6490	1.28	Q	V			
15+40	0.6580	1.30	Q	V			
15+45	0.6672	1.33	Q	V			
15+50	0.6768	1.39	Q	V			
15+55	0.6871	1.50	Q	V			
16+ 0	0.6989	1.71	Q	V			
16+ 5	0.7150	2.34	Q	V			
16+10	0.7376	3.28	Q	V			
16+15	0.7668	4.25	Q	V			
16+20	0.8016	5.05	Q	V			
16+25	0.8383	5.32	Q	V			
16+30	0.8720	4.90	Q	V			
16+35	0.8988	3.90	Q	V			

16+40	0.9206	3.16		Q	V	
16+45	0.9390	2.66		Q	V	
16+50	0.9550	2.33		Q	V	
16+55	0.9698	2.14		Q	V	
17+ 0	0.9834	1.98		Q	V	
17+ 5	0.9961	1.84		Q	V	
17+10	1.0079	1.72		Q	V	
17+15	1.0191	1.62		Q	V	
17+20	1.0295	1.52		Q	V	
17+25	1.0394	1.43		Q	V	
17+30	1.0489	1.38		Q	V	
17+35	1.0579	1.31		Q	V	
17+40	1.0664	1.23		Q	V	
17+45	1.0745	1.19		Q	V	
17+50	1.0823	1.12		Q	V	
17+55	1.0897	1.08		Q	V	
18+ 0	1.0969	1.05		Q	V	
18+ 5	1.1040	1.02		Q	V	
18+10	1.1108	0.99		Q	V	
18+15	1.1173	0.95		Q	V	
18+20	1.1236	0.91		Q	V	
18+25	1.1296	0.88		Q	V	
18+30	1.1355	0.85		Q	V	
18+35	1.1412	0.83		Q	V	
18+40	1.1467	0.80		Q	V	
18+45	1.1520	0.77		Q	V	
18+50	1.1572	0.75		Q	V	
18+55	1.1621	0.73		Q	V	
19+ 0	1.1670	0.71		Q	V	
19+ 5	1.1718	0.69		Q	V	
19+10	1.1765	0.68		Q	V	
19+15	1.1811	0.67		Q	V	
19+20	1.1856	0.66		Q	V	
19+25	1.1900	0.64		Q	V	
19+30	1.1943	0.62		Q	V	
19+35	1.1982	0.57		Q	V	
19+40	1.2021	0.56		Q	V	
19+45	1.2059	0.55		Q	V	
19+50	1.2096	0.54		Q	V	
19+55	1.2132	0.53		Q	V	
20+ 0	1.2169	0.52		Q	V	
20+ 5	1.2204	0.52		Q	V	
20+10	1.2239	0.51		Q	V	
20+15	1.2274	0.50		Q	V	
20+20	1.2308	0.50		Q	V	
20+25	1.2342	0.49		Q	V	
20+30	1.2375	0.48		Q	V	
20+35	1.2408	0.48		Q	V	
20+40	1.2440	0.47		Q	V	
20+45	1.2473	0.47		Q	V	
20+50	1.2504	0.46		Q	V	
20+55	1.2536	0.46		Q	V	
21+ 0	1.2567	0.45		Q	V	
21+ 5	1.2598	0.45		Q	V	
21+10	1.2629	0.44		Q	V	
21+15	1.2659	0.44		Q	V	
21+20	1.2689	0.43		Q	V	
21+25	1.2718	0.43		Q	V	
21+30	1.2748	0.43		Q	V	

21+35	1.2777	0.42	Q				V
21+40	1.2806	0.42	Q				V
21+45	1.2834	0.42	Q				V
21+50	1.2863	0.41	Q				V
21+55	1.2891	0.41	Q				V
22+ 0	1.2919	0.41	Q				V
22+ 5	1.2947	0.40	Q				V
22+10	1.2974	0.40	Q				V
22+15	1.3001	0.40	Q				V
22+20	1.3028	0.39	Q				V
22+25	1.3055	0.39	Q				V
22+30	1.3082	0.39	Q				V
22+35	1.3108	0.38	Q				V
22+40	1.3135	0.38	Q				V
22+45	1.3161	0.38	Q				V
22+50	1.3187	0.38	Q				V
22+55	1.3212	0.37	Q				V
23+ 0	1.3238	0.37	Q				V
23+ 5	1.3263	0.37	Q				V
23+10	1.3288	0.37	Q				V
23+15	1.3313	0.36	Q				V
23+20	1.3338	0.36	Q				V
23+25	1.3363	0.36	Q				V
23+30	1.3388	0.36	Q				V
23+35	1.3412	0.35	Q				V
23+40	1.3436	0.35	Q				V
23+45	1.3460	0.35	Q				V
23+50	1.3484	0.35	Q				V
23+55	1.3508	0.35	Q				V
24+ 0	1.3532	0.34	Q				V
24+ 5	1.3555	0.34	Q				V
24+10	1.3577	0.32	Q				V
24+15	1.3597	0.29	Q				V
24+20	1.3614	0.25	Q				V
24+25	1.3628	0.20	Q				V
24+30	1.3639	0.16	Q				V
24+35	1.3648	0.13	Q				V
24+40	1.3656	0.11	Q				V
24+45	1.3662	0.10	Q				V
24+50	1.3668	0.08	Q				V
24+55	1.3673	0.07	Q				V
25+ 0	1.3678	0.07	Q				V
25+ 5	1.3682	0.06	Q				V
25+10	1.3686	0.05	Q				V
25+15	1.3689	0.05	Q				V
25+20	1.3692	0.04	Q				V
25+25	1.3695	0.04	Q				V
25+30	1.3697	0.04	Q				V
25+35	1.3699	0.03	Q				V
25+40	1.3701	0.03	Q				V
25+45	1.3703	0.03	Q				V
25+50	1.3705	0.02	Q				V
25+55	1.3706	0.02	Q				V
26+ 0	1.3707	0.02	Q				V
26+ 5	1.3709	0.02	Q				V
26+10	1.3710	0.02	Q				V
26+15	1.3711	0.01	Q				V
26+20	1.3711	0.01	Q				V
26+25	1.3712	0.01	Q				V

26+30	1.3713	0.01	Q	|	|	|	V|
26+35	1.3713	0.01	Q	|	|	|	V|
26+40	1.3714	0.01	Q	|	|	|	V|
26+45	1.3714	0.01	Q	|	|	|	V|
26+50	1.3715	0.01	Q	|	|	|	V|
26+55	1.3715	0.00	Q	|	|	|	V|
27+ 0	1.3715	0.00	Q	|	|	|	V|
27+ 5	1.3715	0.00	Q	|	|	|	V|
27+10	1.3716	0.00	Q	|	|	|	V|
27+15	1.3716	0.00	Q	|	|	|	V|
27+20	1.3716	0.00	Q	|	|	|	V|
27+25	1.3716	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA A2
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
6.51	1	1.20
Rainfall data for year 100		
6.51	6	3.00
Rainfall data for year 100		
6.51	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	6.51	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
6.51	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.431 (hours)
++
Watershed area = 6.51(Ac.)
Catchment Lag time = 0.345 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 24.1686
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 6.51(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 78.73 (CFS))		
1	2.211	1.740
2	9.421	5.677
3	22.188	10.052
4	38.907	13.163
5	54.486	12.265
6	64.479	7.867
7	70.921	5.072
8	75.212	3.378
9	78.626	2.688
10	81.437	2.213
11	83.815	1.872
12	85.884	1.629
13	87.602	1.352
14	89.077	1.161

15	90.475	1.101
16	91.583	0.873
17	92.617	0.814
18	93.434	0.643
19	94.204	0.606
20	94.939	0.578
21	95.654	0.563
22	96.232	0.455
23	96.761	0.416
24	97.223	0.364
25	97.657	0.341
26	98.028	0.292
27	98.366	0.266
28	98.646	0.221
29	98.888	0.190
30	99.130	0.190
31	99.371	0.190
32	99.613	0.190
33	99.855	0.190
34	100.000	0.114

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6890	0.1032
4	0.7730	0.0840
5	0.8452	0.0722
6	0.9092	0.0639
7	0.9670	0.0578
8	1.0200	0.0531
9	1.0692	0.0492
10	1.1153	0.0460
11	1.1586	0.0433
12	1.1996	0.0410
13	1.2498	0.0501
14	1.2981	0.0483
15	1.3447	0.0466
16	1.3899	0.0451
17	1.4336	0.0438
18	1.4762	0.0425
19	1.5176	0.0414
20	1.5580	0.0404
21	1.5973	0.0394
22	1.6358	0.0385
23	1.6734	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8165	0.0347
28	1.8506	0.0341
29	1.8842	0.0335
30	1.9171	0.0330
31	1.9495	0.0324
32	1.9815	0.0319
33	2.0129	0.0314
34	2.0439	0.0310
35	2.0744	0.0305
36	2.1046	0.0301

37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9353	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	2.9999	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0821	0.0203
77	3.1024	0.0202
78	3.1224	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2595	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3540	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182

96	3.4640	0.0181
97	3.4820	0.0180
98	3.4999	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6911	0.0170
110	3.7080	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9210	0.0160
124	3.9369	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	3.9999	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0465	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1230	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1832	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2719	0.0147
147	4.2865	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3588	0.0144
153	4.3732	0.0143
154	4.3874	0.0143

155	4.4016	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4440	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.4999	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7696	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8733	0.0128
191	4.8861	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9370	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	4.9999	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121

214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2914	0.0118
225	5.3032	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3618	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4657	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.4999	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6457	0.0111
256	5.6568	0.0111
257	5.6678	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107

273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9476	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065

39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083

98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136

157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0208
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0404	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0639	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4440	0.0364	0.4076
194	0.0840	0.0364	0.0476
195	0.0578	0.0252	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0283
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0175
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125

216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064

275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 8.69(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.04	Q				
0+15	0.0011	0.10	Q				
0+20	0.0023	0.18	Q				
0+25	0.0041	0.25	VQ				
0+30	0.0061	0.30	VQ				
0+35	0.0084	0.33	VQ				
0+40	0.0108	0.35	VQ				
0+45	0.0133	0.37	VQ				
0+50	0.0160	0.38	VQ				
0+55	0.0187	0.39	VQ				
1+ 0	0.0215	0.40	VQ				
1+ 5	0.0243	0.41	VQ				
1+10	0.0272	0.42	VQ				
1+15	0.0302	0.43	VQ				
1+20	0.0332	0.44	VQ				
1+25	0.0362	0.44	VQ				
1+30	0.0393	0.45	VQ				
1+35	0.0424	0.45	VQ				
1+40	0.0455	0.46	VQ				
1+45	0.0487	0.46	|Q				
1+50	0.0519	0.46	|Q				
1+55	0.0551	0.47	|Q				
2+ 0	0.0583	0.47	|Q				
2+ 5	0.0616	0.47	|Q				
2+10	0.0649	0.48	|Q				
2+15	0.0682	0.48	|Q				
2+20	0.0716	0.48	|Q				
2+25	0.0749	0.49	|Q				
2+30	0.0783	0.49	|Q				

2+35	0.0816	0.49	Q			
2+40	0.0850	0.49	Q			
2+45	0.0885	0.50	Q			
2+50	0.0919	0.50	Q			
2+55	0.0953	0.50	VQ			
3+ 0	0.0988	0.50	Q			
3+ 5	0.1023	0.50	Q			
3+10	0.1057	0.50	Q			
3+15	0.1092	0.51	Q			
3+20	0.1127	0.51	Q			
3+25	0.1162	0.51	Q			
3+30	0.1197	0.51	Q			
3+35	0.1233	0.51	Q			
3+40	0.1268	0.51	Q			
3+45	0.1304	0.52	Q			
3+50	0.1339	0.52	Q			
3+55	0.1375	0.52	Q			
4+ 0	0.1411	0.52	Q			
4+ 5	0.1447	0.52	Q			
4+10	0.1483	0.52	QV			
4+15	0.1519	0.53	QV			
4+20	0.1556	0.53	QV			
4+25	0.1592	0.53	QV			
4+30	0.1629	0.53	QV			
4+35	0.1666	0.53	QV			
4+40	0.1703	0.54	QV			
4+45	0.1740	0.54	QV			
4+50	0.1777	0.54	QV			
4+55	0.1814	0.54	QV			
5+ 0	0.1851	0.54	QV			
5+ 5	0.1889	0.55	QV			
5+10	0.1927	0.55	QV			
5+15	0.1965	0.55	Q V			
5+20	0.2002	0.55	Q V			
5+25	0.2041	0.55	Q V			
5+30	0.2079	0.56	Q V			
5+35	0.2117	0.56	Q V			
5+40	0.2156	0.56	Q V			
5+45	0.2194	0.56	Q V			
5+50	0.2233	0.56	Q V			
5+55	0.2272	0.57	Q V			
6+ 0	0.2311	0.57	Q V			
6+ 5	0.2351	0.57	Q V			
6+10	0.2390	0.57	Q V			
6+15	0.2430	0.58	Q V			
6+20	0.2470	0.58	Q V			
6+25	0.2510	0.58	Q V			
6+30	0.2550	0.58	Q V			
6+35	0.2590	0.58	Q V			
6+40	0.2630	0.59	Q V			
6+45	0.2671	0.59	Q V			
6+50	0.2712	0.59	Q V			
6+55	0.2753	0.59	Q V			
7+ 0	0.2794	0.60	Q V			
7+ 5	0.2835	0.60	Q V			
7+10	0.2877	0.60	Q V			
7+15	0.2918	0.61	Q V			
7+20	0.2960	0.61	Q V			
7+25	0.3002	0.61	Q V			

7+30	0.3045	0.61	Q V				
7+35	0.3087	0.62	Q V				
7+40	0.3130	0.62	Q V				
7+45	0.3173	0.62	Q V				
7+50	0.3216	0.63	Q V				
7+55	0.3259	0.63	Q V				
8+ 0	0.3302	0.63	Q V				
8+ 5	0.3346	0.63	Q V				
8+10	0.3390	0.64	Q V				
8+15	0.3434	0.64	Q V				
8+20	0.3478	0.64	Q V				
8+25	0.3523	0.65	Q V				
8+30	0.3568	0.65	Q V				
8+35	0.3613	0.65	Q V				
8+40	0.3658	0.66	Q V				
8+45	0.3704	0.66	Q V				
8+50	0.3749	0.66	Q V				
8+55	0.3795	0.67	Q V				
9+ 0	0.3842	0.67	Q V				
9+ 5	0.3888	0.68	Q V				
9+10	0.3935	0.68	Q V				
9+15	0.3982	0.68	Q V				
9+20	0.4029	0.69	Q V				
9+25	0.4077	0.69	Q V				
9+30	0.4125	0.70	Q V				
9+35	0.4173	0.70	Q V				
9+40	0.4221	0.70	Q V				
9+45	0.4270	0.71	Q V				
9+50	0.4319	0.71	Q V				
9+55	0.4369	0.72	Q V				
10+ 0	0.4418	0.72	Q V				
10+ 5	0.4468	0.73	Q V				
10+10	0.4519	0.73	Q V				
10+15	0.4569	0.74	Q V				
10+20	0.4620	0.74	Q V				
10+25	0.4672	0.75	Q V				
10+30	0.4723	0.75	Q V				
10+35	0.4775	0.76	Q V				
10+40	0.4828	0.76	Q V				
10+45	0.4881	0.77	Q V				
10+50	0.4934	0.77	Q V				
10+55	0.4987	0.78	Q V				
11+ 0	0.5041	0.78	Q V				
11+ 5	0.5096	0.79	Q V				
11+10	0.5150	0.80	Q V				
11+15	0.5206	0.80	Q V				
11+20	0.5261	0.81	Q V				
11+25	0.5318	0.82	Q V				
11+30	0.5374	0.82	Q V				
11+35	0.5431	0.83	Q V				
11+40	0.5489	0.84	Q V				
11+45	0.5547	0.84	Q V				
11+50	0.5605	0.85	Q V				
11+55	0.5664	0.86	Q V				
12+ 0	0.5724	0.87	Q V				
12+ 5	0.5784	0.87	Q V				
12+10	0.5845	0.88	Q V				
12+15	0.5907	0.90	Q V				
12+20	0.5969	0.91	Q V				

12+25	0.6033	0.92	Q	V			
12+30	0.6097	0.93	Q	V			
12+35	0.6162	0.94	Q	V			
12+40	0.6228	0.95	Q	V			
12+45	0.6294	0.96	Q	V			
12+50	0.6361	0.98	Q	V			
12+55	0.6429	0.99	Q	V			
13+ 0	0.6498	1.00	Q	V			
13+ 5	0.6568	1.01	Q	V			
13+10	0.6638	1.02	Q	V			
13+15	0.6710	1.04	Q	V			
13+20	0.6782	1.05	Q	V			
13+25	0.6855	1.06	Q	V			
13+30	0.6930	1.08	Q	V			
13+35	0.7005	1.09	Q	V			
13+40	0.7081	1.11	Q	V			
13+45	0.7159	1.13	Q	V			
13+50	0.7238	1.14	Q	V			
13+55	0.7318	1.16	Q	V			
14+ 0	0.7399	1.18	Q	V			
14+ 5	0.7482	1.20	Q	V			
14+10	0.7566	1.22	Q	V			
14+15	0.7652	1.24	Q	V			
14+20	0.7739	1.27	Q	V			
14+25	0.7828	1.29	Q	V			
14+30	0.7919	1.32	Q	V			
14+35	0.8011	1.35	Q	V			
14+40	0.8106	1.38	Q	V			
14+45	0.8203	1.41	Q	V			
14+50	0.8303	1.44	Q	V			
14+55	0.8405	1.48	Q	V			
15+ 0	0.8510	1.52	Q	V			
15+ 5	0.8618	1.57	Q	V			
15+10	0.8729	1.62	Q	V			
15+15	0.8844	1.67	Q	V			
15+20	0.8963	1.73	Q	V			
15+25	0.9086	1.79	Q	V			
15+30	0.9213	1.83	Q	V			
15+35	0.9341	1.86	Q	V			
15+40	0.9470	1.88	Q	V			
15+45	0.9604	1.94	Q	V			
15+50	0.9745	2.05	Q	V			
15+55	0.9901	2.26	Q	V			
16+ 0	1.0084	2.66	Q	V			
16+ 5	1.0349	3.85	Q	V			
16+10	1.0748	5.80	VQ				
16+15	1.1278	7.69	V	Q			
16+20	1.1876	8.69	V	Q			
16+25	1.2424	7.96	V	Q			
16+30	1.2837	5.99	Q V				
16+35	1.3157	4.65	Q	V			
16+40	1.3420	3.82	Q	V			
16+45	1.3655	3.41	Q	V			
16+50	1.3868	3.09	Q	V			
16+55	1.4063	2.83	Q	V			
17+ 0	1.4244	2.62	Q	V			
17+ 5	1.4410	2.41	Q	V			
17+10	1.4565	2.25	Q	V			
17+15	1.4712	2.14	Q	V			

17+20	1.4848	1.98	Q		V	
17+25	1.4978	1.88	Q		V	
17+30	1.5099	1.76	Q		V	
17+35	1.5216	1.69	Q		V	
17+40	1.5328	1.63	Q		V	
17+45	1.5436	1.57	Q		V	
17+50	1.5538	1.48	Q		V	
17+55	1.5636	1.43	Q		V	
18+ 0	1.5730	1.37	Q		V	
18+ 5	1.5821	1.32	Q		V	
18+10	1.5908	1.26	Q		V	
18+15	1.5992	1.22	Q		V	
18+20	1.6072	1.17	Q		V	
18+25	1.6150	1.13	Q		V	
18+30	1.6225	1.10	Q		V	
18+35	1.6299	1.07	Q		V	
18+40	1.6371	1.04	Q		V	
18+45	1.6441	1.01	Q		V	
18+50	1.6507	0.96	Q		V	
18+55	1.6568	0.89	Q		V	
19+ 0	1.6628	0.87	Q		V	
19+ 5	1.6687	0.85	Q		V	
19+10	1.6744	0.84	Q		V	
19+15	1.6801	0.82	Q		V	
19+20	1.6856	0.81	Q		V	
19+25	1.6911	0.79	Q		V	
19+30	1.6965	0.78	Q		V	
19+35	1.7018	0.77	Q		V	
19+40	1.7070	0.76	Q		V	
19+45	1.7121	0.75	Q		V	
19+50	1.7172	0.74	Q		V	
19+55	1.7222	0.73	Q		V	
20+ 0	1.7271	0.72	Q		V	
20+ 5	1.7320	0.71	Q		V	
20+10	1.7368	0.70	Q		V	
20+15	1.7415	0.69	Q		V	
20+20	1.7462	0.68	Q		V	
20+25	1.7509	0.67	Q		V	
20+30	1.7555	0.67	Q		V	
20+35	1.7600	0.66	Q		V	
20+40	1.7645	0.65	Q		V	
20+45	1.7689	0.65	Q		V	
20+50	1.7733	0.64	Q		V	
20+55	1.7777	0.63	Q		V	
21+ 0	1.7820	0.63	Q		V	
21+ 5	1.7863	0.62	Q		V	
21+10	1.7905	0.61	Q		V	
21+15	1.7947	0.61	Q		V	
21+20	1.7988	0.60	Q		V	
21+25	1.8030	0.60	Q		V	
21+30	1.8070	0.59	Q		V	
21+35	1.8111	0.59	Q		V	
21+40	1.8151	0.58	Q		V	
21+45	1.8191	0.58	Q		V	
21+50	1.8230	0.57	Q		V	
21+55	1.8269	0.57	Q		V	
22+ 0	1.8308	0.56	Q		V	
22+ 5	1.8347	0.56	Q		V	
22+10	1.8385	0.56	Q		V	

22+15	1.8423	0.55	Q				V
22+20	1.8460	0.55	Q				V
22+25	1.8498	0.54	Q				V
22+30	1.8535	0.54	Q				V
22+35	1.8572	0.54	Q				V
22+40	1.8608	0.53	Q				V
22+45	1.8645	0.53	Q				V
22+50	1.8681	0.52	Q				V
22+55	1.8717	0.52	Q				V
23+ 0	1.8752	0.52	Q				V
23+ 5	1.8788	0.51	Q				V
23+10	1.8823	0.51	Q				V
23+15	1.8858	0.51	Q				V
23+20	1.8893	0.50	Q				V
23+25	1.8927	0.50	Q				V
23+30	1.8962	0.50	Q				V
23+35	1.8996	0.50	Q				V
23+40	1.9030	0.49	Q				V
23+45	1.9063	0.49	Q				V
23+50	1.9097	0.49	Q				V
23+55	1.9130	0.48	Q				V
24+ 0	1.9163	0.48	Q				V
24+ 5	1.9195	0.47	Q				V
24+10	1.9225	0.43	Q				V
24+15	1.9251	0.37	Q				V
24+20	1.9271	0.29	Q				V
24+25	1.9286	0.22	Q				V
24+30	1.9298	0.17	Q				V
24+35	1.9307	0.14	Q				V
24+40	1.9315	0.12	Q				V
24+45	1.9323	0.10	Q				V
24+50	1.9329	0.09	Q				V
24+55	1.9334	0.08	Q				V
25+ 0	1.9339	0.07	Q				V
25+ 5	1.9343	0.06	Q				V
25+10	1.9346	0.05	Q				V
25+15	1.9350	0.05	Q				V
25+20	1.9352	0.04	Q				V
25+25	1.9355	0.04	Q				V
25+30	1.9357	0.03	Q				V
25+35	1.9359	0.03	Q				V
25+40	1.9361	0.02	Q				V
25+45	1.9362	0.02	Q				V
25+50	1.9363	0.02	Q				V
25+55	1.9364	0.02	Q				V
26+ 0	1.9365	0.01	Q				V
26+ 5	1.9366	0.01	Q				V
26+10	1.9367	0.01	Q				V
26+15	1.9367	0.01	Q				V
26+20	1.9368	0.01	Q				V
26+25	1.9368	0.01	Q				V
26+30	1.9368	0.00	Q				V
26+35	1.9368	0.00	Q				V
26+40	1.9369	0.00	Q				V
26+45	1.9369	0.00	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA A3
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
4.78	1	1.20
Rainfall data for year 100		
4.78	6	3.00
Rainfall data for year 100		
4.78	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	4.78	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
4.78	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.364 (hours)
++
Watershed area = 4.78(Ac.)
Catchment Lag time = 0.291 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 28.6172
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 4.78(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 57.81 (CFS))		
1	2.724	1.574
2	12.476	5.637
3	29.692	9.952
4	49.408	11.398
5	63.026	7.872
6	70.947	4.579
7	75.926	2.878
8	79.750	2.211
9	82.813	1.770
10	85.389	1.489
11	87.489	1.214
12	89.246	1.016
13	90.827	0.914
14	92.099	0.735

15	93.178	0.624
16	94.092	0.528
17	94.966	0.505
18	95.792	0.478
19	96.447	0.379
20	97.042	0.344
21	97.560	0.299
22	98.014	0.263
23	98.410	0.229
24	98.725	0.182
25	99.011	0.165
26	99.297	0.165
27	99.584	0.165
28	100.000	0.083

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7731	0.0840
5	0.8453	0.0722
6	0.9092	0.0639
7	0.9671	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1154	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3448	0.0466
16	1.3899	0.0451
17	1.4337	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0130	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279

43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176

102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140

161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120

220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106

279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067

45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086

104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149

163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0208
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0404	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0639	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4440	0.0364	0.4076
194	0.0840	0.0364	0.0476
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0175
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108

222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062

281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 6.96(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0004	0.04	Q				
0+15	0.0011	0.10	Q				
0+20	0.0022	0.17	Q				
0+25	0.0037	0.21	Q				
0+30	0.0054	0.24	Q				
0+35	0.0071	0.26	VQ				
0+40	0.0090	0.27	VQ				
0+45	0.0110	0.28	VQ				
0+50	0.0130	0.29	VQ				
0+55	0.0151	0.30	VQ				
1+ 0	0.0172	0.31	VQ				
1+ 5	0.0194	0.31	VQ				
1+10	0.0216	0.32	VQ				
1+15	0.0238	0.32	VQ				
1+20	0.0261	0.33	VQ				
1+25	0.0284	0.33	VQ				
1+30	0.0307	0.34	VQ				
1+35	0.0330	0.34	VQ				
1+40	0.0354	0.34	VQ				
1+45	0.0378	0.35	|Q				
1+50	0.0402	0.35	|Q				
1+55	0.0426	0.35	|Q				
2+ 0	0.0450	0.35	|Q				
2+ 5	0.0474	0.35	|Q				
2+10	0.0499	0.36	|Q				
2+15	0.0524	0.36	|Q				
2+20	0.0548	0.36	|Q				
2+25	0.0573	0.36	|Q				
2+30	0.0598	0.36	|Q				
2+35	0.0623	0.36	|Q				
2+40	0.0648	0.36	|Q				
2+45	0.0673	0.37	|Q				
2+50	0.0698	0.37	|Q				
2+55	0.0724	0.37	|QV				
3+ 0	0.0749	0.37	|QV				

3+ 5	0.0775	0.37	QV				
3+10	0.0800	0.37	QV				
3+15	0.0826	0.37	QV				
3+20	0.0851	0.37	QV				
3+25	0.0877	0.37	QV				
3+30	0.0903	0.38	QV				
3+35	0.0929	0.38	QV				
3+40	0.0955	0.38	QV				
3+45	0.0981	0.38	QV				
3+50	0.1007	0.38	QV				
3+55	0.1034	0.38	QV				
4+ 0	0.1060	0.38	QV				
4+ 5	0.1086	0.38	Q V				
4+10	0.1113	0.39	Q V				
4+15	0.1140	0.39	Q V				
4+20	0.1166	0.39	Q V				
4+25	0.1193	0.39	Q V				
4+30	0.1220	0.39	Q V				
4+35	0.1247	0.39	Q V				
4+40	0.1274	0.39	Q V				
4+45	0.1301	0.39	Q V				
4+50	0.1329	0.40	Q V				
4+55	0.1356	0.40	Q V				
5+ 0	0.1384	0.40	Q V				
5+ 5	0.1411	0.40	Q V				
5+10	0.1439	0.40	Q V				
5+15	0.1467	0.40	Q V				
5+20	0.1494	0.41	Q V				
5+25	0.1522	0.41	Q V				
5+30	0.1551	0.41	Q V				
5+35	0.1579	0.41	Q V				
5+40	0.1607	0.41	Q V				
5+45	0.1636	0.41	Q V				
5+50	0.1664	0.41	Q V				
5+55	0.1693	0.42	Q V				
6+ 0	0.1722	0.42	Q V				
6+ 5	0.1750	0.42	Q V				
6+10	0.1779	0.42	Q V				
6+15	0.1809	0.42	Q V				
6+20	0.1838	0.42	Q V				
6+25	0.1867	0.43	Q V				
6+30	0.1897	0.43	Q V				
6+35	0.1926	0.43	Q V				
6+40	0.1956	0.43	Q V				
6+45	0.1986	0.43	Q V				
6+50	0.2016	0.44	Q V				
6+55	0.2046	0.44	Q V				
7+ 0	0.2076	0.44	Q V				
7+ 5	0.2107	0.44	Q V				
7+10	0.2137	0.44	Q V				
7+15	0.2168	0.45	Q V				
7+20	0.2199	0.45	Q V				
7+25	0.2230	0.45	Q V				
7+30	0.2261	0.45	Q V				
7+35	0.2292	0.45	Q V				
7+40	0.2323	0.46	Q V				
7+45	0.2355	0.46	Q V				
7+50	0.2386	0.46	Q V				
7+55	0.2418	0.46	Q V				

8+ 0	0.2450	0.46	Q V	|	|	|	|
8+ 5	0.2482	0.47	Q V	|	|	|	|
8+10	0.2515	0.47	Q V	|	|	|	|
8+15	0.2547	0.47	Q V	|	|	|	|
8+20	0.2580	0.47	Q V	|	|	|	|
8+25	0.2613	0.48	Q V	|	|	|	|
8+30	0.2646	0.48	Q V	|	|	|	|
8+35	0.2679	0.48	Q V	|	|	|	|
8+40	0.2712	0.48	Q V	|	|	|	|
8+45	0.2746	0.49	Q V	|	|	|	|
8+50	0.2779	0.49	Q V	|	|	|	|
8+55	0.2813	0.49	Q V	|	|	|	|
9+ 0	0.2847	0.49	Q V	|	|	|	|
9+ 5	0.2881	0.50	Q V	|	|	|	|
9+10	0.2916	0.50	Q V	|	|	|	|
9+15	0.2950	0.50	Q V	|	|	|	|
9+20	0.2985	0.51	Q V	|	|	|	|
9+25	0.3020	0.51	Q V	|	|	|	|
9+30	0.3056	0.51	Q V	|	|	|	|
9+35	0.3091	0.52	Q V	|	|	|	|
9+40	0.3127	0.52	Q V	|	|	|	|
9+45	0.3163	0.52	Q V	|	|	|	|
9+50	0.3199	0.52	Q V	|	|	|	|
9+55	0.3235	0.53	Q V	|	|	|	|
10+ 0	0.3272	0.53	Q V	|	|	|	|
10+ 5	0.3309	0.53	Q V	|	|	|	|
10+10	0.3346	0.54	Q V	|	|	|	|
10+15	0.3383	0.54	Q V	|	|	|	|
10+20	0.3421	0.55	Q V	|	|	|	|
10+25	0.3458	0.55	Q V	|	|	|	|
10+30	0.3497	0.55	Q V	|	|	|	|
10+35	0.3535	0.56	Q V	|	|	|	|
10+40	0.3574	0.56	Q V	|	|	|	|
10+45	0.3612	0.57	Q V	|	|	|	|
10+50	0.3652	0.57	Q V	|	|	|	|
10+55	0.3691	0.57	Q V	|	|	|	|
11+ 0	0.3731	0.58	Q V	|	|	|	|
11+ 5	0.3771	0.58	Q V	|	|	|	|
11+10	0.3811	0.59	Q V	|	|	|	|
11+15	0.3852	0.59	Q V	|	|	|	|
11+20	0.3893	0.60	Q V	|	|	|	|
11+25	0.3935	0.60	Q V	|	|	|	|
11+30	0.3976	0.61	Q V	|	|	|	|
11+35	0.4019	0.61	Q V	|	|	|	|
11+40	0.4061	0.62	Q V	|	|	|	|
11+45	0.4104	0.62	Q V	|	|	|	|
11+50	0.4147	0.63	Q V	|	|	|	|
11+55	0.4191	0.63	Q V	|	|	|	|
12+ 0	0.4235	0.64	Q V	|	|	|	|
12+ 5	0.4279	0.65	Q V	|	|	|	|
12+10	0.4324	0.65	Q V	|	|	|	|
12+15	0.4370	0.66	Q V	|	|	|	|
12+20	0.4416	0.67	Q V	|	|	|	|
12+25	0.4463	0.68	Q V	|	|	|	|
12+30	0.4511	0.69	Q V	|	|	|	|
12+35	0.4559	0.70	Q V	|	|	|	|
12+40	0.4607	0.71	Q V	|	|	|	|
12+45	0.4657	0.71	Q V	|	|	|	|
12+50	0.4706	0.72	Q V	|	|	|	|

12+55	0.4757	0.73	Q	V			
13+ 0	0.4808	0.74	Q	V			
13+ 5	0.4859	0.75	Q	V			
13+10	0.4911	0.76	Q	V			
13+15	0.4964	0.77	Q	V			
13+20	0.5018	0.78	Q	V			
13+25	0.5072	0.79	Q	V			
13+30	0.5127	0.80	Q	V			
13+35	0.5183	0.81	Q	V			
13+40	0.5240	0.82	Q	V			
13+45	0.5297	0.84	Q	V			
13+50	0.5356	0.85	Q	V			
13+55	0.5415	0.86	Q	V			
14+ 0	0.5476	0.88	Q	V			
14+ 5	0.5537	0.89	Q	V			
14+10	0.5600	0.91	Q	V			
14+15	0.5663	0.92	Q	V			
14+20	0.5728	0.94	Q	V			
14+25	0.5794	0.96	Q	V			
14+30	0.5862	0.98	Q	V			
14+35	0.5931	1.00	Q	V			
14+40	0.6002	1.03	Q	V			
14+45	0.6074	1.05	Q	V			
14+50	0.6149	1.08	Q	V			
14+55	0.6225	1.11	Q	V			
15+ 0	0.6303	1.14	Q	V			
15+ 5	0.6384	1.17	Q	V			
15+10	0.6468	1.21	Q	V			
15+15	0.6554	1.25	Q	V			
15+20	0.6644	1.30	Q	V			
15+25	0.6737	1.35	Q	V			
15+30	0.6831	1.37	Q	V			
15+35	0.6926	1.38	Q	V			
15+40	0.7023	1.40	Q	V			
15+45	0.7123	1.45	Q	V			
15+50	0.7230	1.56	Q	V			
15+55	0.7350	1.74	Q	V			
16+ 0	0.7495	2.10	Q	V			
16+ 5	0.7714	3.18	Q	V			
16+10	0.8064	5.08	Q	V			
16+15	0.8528	6.74	Q	V			
16+20	0.9008	6.96	Q	V			
16+25	0.9375	5.34	Q	V			
16+30	0.9640	3.85	Q	V			
16+35	0.9850	3.04	Q	V			
16+40	1.0033	2.66	Q	V			
16+45	1.0196	2.38	Q	V			
16+50	1.0345	2.16	Q	V			
16+55	1.0481	1.96	Q	V			
17+ 0	1.0605	1.81	Q	V			
17+ 5	1.0721	1.69	Q	V			
17+10	1.0828	1.55	Q	V			
17+15	1.0928	1.45	Q	V			
17+20	1.1022	1.36	Q	V			
17+25	1.1112	1.30	Q	V			
17+30	1.1198	1.25	Q	V			
17+35	1.1278	1.17	Q	V			
17+40	1.1355	1.12	Q	V			
17+45	1.1428	1.06	Q	V			

17+50	1.1498	1.02	Q			V	
17+55	1.1565	0.97	Q			V	
18+ 0	1.1629	0.93	Q			V	
18+ 5	1.1690	0.89	Q			V	
18+10	1.1750	0.87	Q			V	
18+15	1.1807	0.83	Q			V	
18+20	1.1861	0.77	Q			V	
18+25	1.1910	0.72	Q			V	
18+30	1.1959	0.70	Q			V	
18+35	1.2006	0.68	Q			V	
18+40	1.2052	0.67	Q			V	
18+45	1.2097	0.65	Q			V	
18+50	1.2141	0.64	Q			V	
18+55	1.2184	0.63	Q			V	
19+ 0	1.2227	0.62	Q			V	
19+ 5	1.2268	0.61	Q			V	
19+10	1.2309	0.59	Q			V	
19+15	1.2350	0.59	Q			V	
19+20	1.2389	0.58	Q			V	
19+25	1.2428	0.57	Q			V	
19+30	1.2467	0.56	Q			V	
19+35	1.2505	0.55	Q			V	
19+40	1.2542	0.54	Q			V	
19+45	1.2579	0.54	Q			V	
19+50	1.2615	0.53	Q			V	
19+55	1.2651	0.52	Q			V	
20+ 0	1.2687	0.52	Q			V	
20+ 5	1.2722	0.51	Q			V	
20+10	1.2756	0.50	Q			V	
20+15	1.2791	0.50	Q			V	
20+20	1.2825	0.49	Q			V	
20+25	1.2858	0.49	Q			V	
20+30	1.2891	0.48	Q			V	
20+35	1.2924	0.48	Q			V	
20+40	1.2956	0.47	Q			V	
20+45	1.2988	0.47	Q			V	
20+50	1.3020	0.46	Q			V	
20+55	1.3052	0.46	Q			V	
21+ 0	1.3083	0.45	Q			V	
21+ 5	1.3114	0.45	Q			V	
21+10	1.3144	0.44	Q			V	
21+15	1.3175	0.44	Q			V	
21+20	1.3205	0.44	Q			V	
21+25	1.3235	0.43	Q			V	
21+30	1.3264	0.43	Q			V	
21+35	1.3294	0.43	Q			V	
21+40	1.3323	0.42	Q			V	
21+45	1.3351	0.42	Q			V	
21+50	1.3380	0.42	Q			V	
21+55	1.3408	0.41	Q			V	
22+ 0	1.3437	0.41	Q			V	
22+ 5	1.3465	0.41	Q			V	
22+10	1.3492	0.40	Q			V	
22+15	1.3520	0.40	Q			V	
22+20	1.3547	0.40	Q			V	
22+25	1.3574	0.39	Q			V	
22+30	1.3601	0.39	Q			V	
22+35	1.3628	0.39	Q			V	
22+40	1.3655	0.39	Q			V	

22+45	1.3681	0.38	Q				V
22+50	1.3707	0.38	Q				V
22+55	1.3733	0.38	Q				V
23+ 0	1.3759	0.38	Q				V
23+ 5	1.3785	0.37	Q				V
23+10	1.3811	0.37	Q				V
23+15	1.3836	0.37	Q				V
23+20	1.3861	0.37	Q				V
23+25	1.3886	0.36	Q				V
23+30	1.3911	0.36	Q				V
23+35	1.3936	0.36	Q				V
23+40	1.3961	0.36	Q				V
23+45	1.3985	0.36	Q				V
23+50	1.4010	0.35	Q				V
23+55	1.4034	0.35	Q				V
24+ 0	1.4058	0.35	Q				V
24+ 5	1.4081	0.34	Q				V
24+10	1.4102	0.30	Q				V
24+15	1.4119	0.24	Q				V
24+20	1.4131	0.18	Q				V
24+25	1.4140	0.13	Q				V
24+30	1.4147	0.10	Q				V
24+35	1.4153	0.08	Q				V
24+40	1.4158	0.07	Q				V
24+45	1.4162	0.06	Q				V
24+50	1.4165	0.05	Q				V
24+55	1.4168	0.04	Q				V
25+ 0	1.4171	0.04	Q				V
25+ 5	1.4173	0.03	Q				V
25+10	1.4175	0.03	Q				V
25+15	1.4176	0.02	Q				V
25+20	1.4177	0.02	Q				V
25+25	1.4179	0.02	Q				V
25+30	1.4180	0.01	Q				V
25+35	1.4180	0.01	Q				V
25+40	1.4181	0.01	Q				V
25+45	1.4181	0.01	Q				V
25+50	1.4182	0.01	Q				V
25+55	1.4182	0.00	Q				V
26+ 0	1.4182	0.00	Q				V
26+ 5	1.4183	0.00	Q				V
26+10	1.4183	0.00	Q				V
26+15	1.4183	0.00	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA A4
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
7.83	1	1.20
Rainfall data for year 100		
7.83	6	3.00
Rainfall data for year 100		
7.83	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	7.83	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
7.83	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.629 (hours)
++
Watershed area = 7.83(Ac.)
Catchment Lag time = 0.503 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 16.5607
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 7.83(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 94.69 (CFS))		
1	1.440	1.364
2	5.201	3.561
3	11.555	6.017
4	20.546	8.514
5	31.703	10.564
6	43.580	11.247
7	54.021	9.886
8	61.522	7.103
9	66.922	5.113
10	71.012	3.873
11	74.077	2.902
12	76.586	2.376
13	78.840	2.134
14	80.800	1.856

15	82.513	1.622
16	84.088	1.491
17	85.525	1.361
18	86.766	1.175
19	87.881	1.055
20	88.876	0.942
21	89.870	0.941
22	90.764	0.847
23	91.495	0.692
24	92.224	0.690
25	92.881	0.623
26	93.414	0.504
27	93.943	0.502
28	94.462	0.491
29	94.959	0.471
30	95.456	0.470
31	95.910	0.430
32	96.277	0.347
33	96.641	0.345
34	96.985	0.325
35	97.284	0.284
36	97.582	0.282
37	97.861	0.264
38	98.094	0.221
39	98.326	0.220
40	98.539	0.202
41	98.707	0.159
42	98.873	0.157
43	99.038	0.157
44	99.204	0.157
45	99.370	0.157
46	99.535	0.157
47	99.701	0.157
48	99.866	0.157
49	100.000	0.127

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5858	0.1419
3	0.6890	0.1031
4	0.7730	0.0840
5	0.8452	0.0722
6	0.9091	0.0639
7	0.9669	0.0578
8	1.0200	0.0530
9	1.0692	0.0492
10	1.1152	0.0460
11	1.1585	0.0433
12	1.1996	0.0410
13	1.2497	0.0501
14	1.2980	0.0483
15	1.3446	0.0466
16	1.3898	0.0451
17	1.4336	0.0438
18	1.4761	0.0425
19	1.5175	0.0414
20	1.5579	0.0404
21	1.5973	0.0394

22	1.6358	0.0385
23	1.6734	0.0376
24	1.7102	0.0368
25	1.7463	0.0361
26	1.7817	0.0354
27	1.8165	0.0347
28	1.8506	0.0341
29	1.8841	0.0335
30	1.9171	0.0330
31	1.9495	0.0324
32	1.9814	0.0319
33	2.0129	0.0314
34	2.0439	0.0310
35	2.0744	0.0305
36	2.1045	0.0301
37	2.1342	0.0297
38	2.1635	0.0293
39	2.1925	0.0289
40	2.2210	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3047	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4895	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7328	0.0234
61	2.7560	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8470	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9353	0.0218
70	2.9570	0.0217
71	2.9785	0.0215
72	2.9999	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0821	0.0203
77	3.1023	0.0202
78	3.1224	0.0201
79	3.1424	0.0200
80	3.1622	0.0198

81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2595	0.0192
86	3.2786	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3353	0.0188
90	3.3540	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4459	0.0182
96	3.4640	0.0181
97	3.4820	0.0180
98	3.4999	0.0179
99	3.5177	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5706	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6911	0.0170
110	3.7080	0.0169
111	3.7248	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7748	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8567	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9210	0.0160
124	3.9369	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	3.9999	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0465	0.0155
132	4.0619	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1078	0.0152
136	4.1230	0.0152
137	4.1382	0.0151
138	4.1532	0.0151
139	4.1683	0.0150

140	4.1832	0.0150
141	4.1981	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2719	0.0147
147	4.2865	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3588	0.0144
153	4.3731	0.0143
154	4.3874	0.0143
155	4.4016	0.0142
156	4.4158	0.0142
157	4.4299	0.0141
158	4.4440	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.4999	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5551	0.0137
167	4.5688	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6232	0.0135
172	4.6367	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6903	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7433	0.0132
181	4.7565	0.0132
182	4.7696	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8733	0.0128
191	4.8861	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9370	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126

199	4.9874	0.0125
200	4.9999	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0620	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1477	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1840	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2320	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2914	0.0118
225	5.3032	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3618	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4657	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.4999	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6235	0.0111
254	5.6347	0.0111
255	5.6457	0.0111
256	5.6568	0.0111
257	5.6678	0.0110

258	5.6788	0.0110
259	5.6898	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7770	0.0108
268	5.7879	0.0108
269	5.7986	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8842	0.0106
278	5.8949	0.0106
279	5.9054	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9476	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	5.9999	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062

24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077

83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113

142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0132	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0208
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0404	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0530	0.0232	0.0299
189	0.0639	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1031	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4440	0.0364	0.4076
194	0.0840	0.0364	0.0476
195	0.0578	0.0252	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0283
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217

201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0175
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071

260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 8.14(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

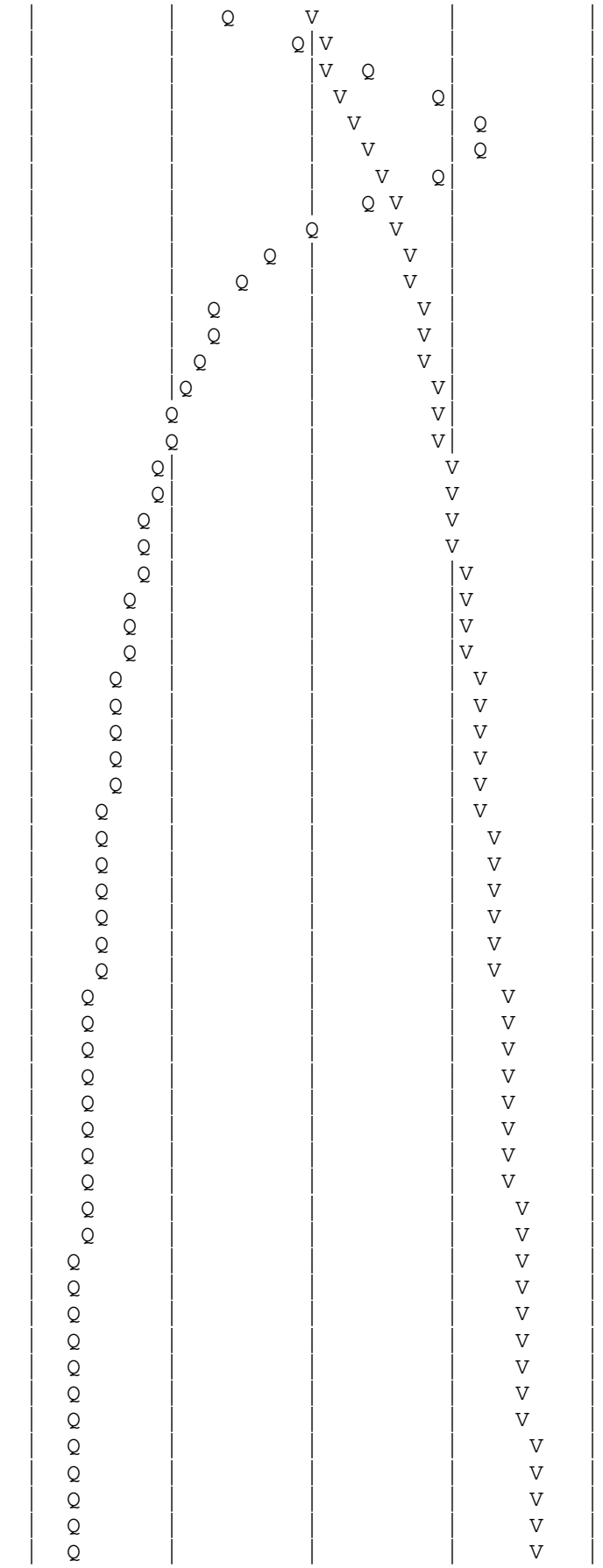
Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q	|	|	|	|
0+10	0.0003	0.03	Q	|	|	|	|
0+15	0.0007	0.06	Q	|	|	|	|
0+20	0.0015	0.11	Q	|	|	|	|
0+25	0.0027	0.18	Q	|	|	|	|
0+30	0.0044	0.24	Q	|	|	|	|
0+35	0.0065	0.30	VQ	|	|	|	|
0+40	0.0088	0.34	VQ	|	|	|	|
0+45	0.0114	0.38	VQ	|	|	|	|
0+50	0.0142	0.40	VQ	|	|	|	|
0+55	0.0170	0.42	VQ	|	|	|	|
1+ 0	0.0200	0.43	VQ	|	|	|	|
1+ 5	0.0231	0.45	VQ	|	|	|	|
1+10	0.0262	0.46	VQ	|	|	|	|
1+15	0.0295	0.47	VQ	|	|	|	|

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1+20       0.0328      0.48  VQ        |          |          |          |
1+25       0.0361      0.49  VQ        |          |          |          |
1+30       0.0396      0.50  VQ        |          |          |          |
1+35       0.0430      0.50  V Q       |          |          |          |
1+40       0.0465      0.51  V Q       |          |          |          |
1+45       0.0501      0.52  V Q       |          |          |          |
1+50       0.0537      0.52  V Q       |          |          |          |
1+55       0.0574      0.53  V Q       |          |          |          |
2+ 0       0.0611      0.54  |VQ       |          |          |          |
2+ 5       0.0648      0.54  |VQ       |          |          |          |
2+10       0.0685      0.55  |VQ       |          |          |          |
2+15       0.0723      0.55  |VQ       |          |          |          |
2+20       0.0761      0.55  |VQ       |          |          |          |
2+25       0.0800      0.56  |VQ       |          |          |          |
2+30       0.0839      0.56  |VQ       |          |          |          |
2+35       0.0878      0.57  |VQ       |          |          |          |
2+40       0.0917      0.57  |VQ       |          |          |          |
2+45       0.0957      0.57  |VQ       |          |          |          |
2+50       0.0996      0.58  |VQ       |          |          |          |
2+55       0.1037      0.58  |VQ       |          |          |          |
3+ 0       0.1077      0.59  |VQ       |          |          |          |
3+ 5       0.1117      0.59  |VQ       |          |          |          |
3+10       0.1158      0.59  |VQ       |          |          |          |
3+15       0.1199      0.59  | Q       |          |          |          |
3+20       0.1240      0.60  | Q       |          |          |          |
3+25       0.1282      0.60  | Q       |          |          |          |
3+30       0.1323      0.60  | Q       |          |          |          |
3+35       0.1365      0.61  | Q       |          |          |          |
3+40       0.1407      0.61  | Q       |          |          |          |
3+45       0.1449      0.61  | Q       |          |          |          |
3+50       0.1491      0.61  | Q       |          |          |          |
3+55       0.1534      0.62  | Q       |          |          |          |
4+ 0       0.1577      0.62  | Q       |          |          |          |
4+ 5       0.1619      0.62  | Q       |          |          |          |
4+10       0.1663      0.63  | Q       |          |          |          |
4+15       0.1706      0.63  | Q       |          |          |          |
4+20       0.1749      0.63  | QV      |          |          |          |
4+25       0.1793      0.63  | QV      |          |          |          |
4+30       0.1836      0.63  | QV      |          |          |          |
4+35       0.1880      0.64  | QV      |          |          |          |
4+40       0.1924      0.64  | QV      |          |          |          |
4+45       0.1968      0.64  | QV      |          |          |          |
4+50       0.2012      0.64  | QV      |          |          |          |
4+55       0.2057      0.64  | QV      |          |          |          |
5+ 0       0.2101      0.65  | QV      |          |          |          |
5+ 5       0.2146      0.65  | QV      |          |          |          |
5+10       0.2191      0.65  | QV      |          |          |          |
5+15       0.2236      0.65  | QV      |          |          |          |
5+20       0.2281      0.66  | QV      |          |          |          |
5+25       0.2327      0.66  | QV      |          |          |          |
5+30       0.2372      0.66  | Q V     |          |          |          |
5+35       0.2418      0.66  | Q V     |          |          |          |
5+40       0.2464      0.67  | Q V     |          |          |          |
5+45       0.2510      0.67  | Q V     |          |          |          |
5+50       0.2556      0.67  | Q V     |          |          |          |
5+55       0.2602      0.67  | Q V     |          |          |          |
6+ 0       0.2649      0.68  | Q V     |          |          |          |
6+ 5       0.2696      0.68  | Q V     |          |          |          |
6+10       0.2743      0.68  | Q V     |          |          |          |
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6+15	0.2790	0.68	Q V				
6+20	0.2837	0.69	Q V				
6+25	0.2885	0.69	Q V				
6+30	0.2933	0.69	Q V				
6+35	0.2980	0.70	Q V				
6+40	0.3029	0.70	Q V				
6+45	0.3077	0.70	Q V				
6+50	0.3125	0.70	Q V				
6+55	0.3174	0.71	Q V				
7+ 0	0.3223	0.71	Q V				
7+ 5	0.3272	0.71	Q V				
7+10	0.3321	0.72	Q V				
7+15	0.3371	0.72	Q V				
7+20	0.3421	0.72	Q V				
7+25	0.3471	0.73	Q V				
7+30	0.3521	0.73	Q V				
7+35	0.3571	0.73	Q V				
7+40	0.3622	0.74	Q V				
7+45	0.3673	0.74	Q V				
7+50	0.3724	0.74	Q V				
7+55	0.3776	0.75	Q V				
8+ 0	0.3827	0.75	Q V				
8+ 5	0.3879	0.75	Q V				
8+10	0.3931	0.76	Q V				
8+15	0.3984	0.76	Q V				
8+20	0.4036	0.76	Q V				
8+25	0.4089	0.77	Q V				
8+30	0.4142	0.77	Q V				
8+35	0.4196	0.78	Q V				
8+40	0.4250	0.78	Q V				
8+45	0.4304	0.78	Q V				
8+50	0.4358	0.79	Q V				
8+55	0.4412	0.79	Q V				
9+ 0	0.4467	0.80	Q V				
9+ 5	0.4522	0.80	Q V				
9+10	0.4578	0.81	Q V				
9+15	0.4634	0.81	Q V				
9+20	0.4690	0.81	Q V				
9+25	0.4746	0.82	Q V				
9+30	0.4803	0.82	Q V				
9+35	0.4860	0.83	Q V				
9+40	0.4917	0.83	Q V				
9+45	0.4975	0.84	Q V				
9+50	0.5033	0.84	Q V				
9+55	0.5092	0.85	Q V				
10+ 0	0.5150	0.85	Q V				
10+ 5	0.5210	0.86	Q V				
10+10	0.5269	0.86	Q V				
10+15	0.5329	0.87	Q V				
10+20	0.5389	0.88	Q V				
10+25	0.5450	0.88	Q V				
10+30	0.5511	0.89	Q V				
10+35	0.5573	0.89	Q V				
10+40	0.5635	0.90	Q V				
10+45	0.5697	0.91	Q V				
10+50	0.5760	0.91	Q V				
10+55	0.5823	0.92	Q V				
11+ 0	0.5887	0.93	Q V				
11+ 5	0.5951	0.93	Q V				

11+10	0.6016	0.94	Q V			
11+15	0.6081	0.95	Q V			
11+20	0.6146	0.95	Q V			
11+25	0.6213	0.96	Q V			
11+30	0.6279	0.97	Q V			
11+35	0.6347	0.98	Q V			
11+40	0.6414	0.98	Q |V			
11+45	0.6483	0.99	Q |V			
11+50	0.6552	1.00	Q |V			
11+55	0.6621	1.01	Q |V			
12+ 0	0.6691	1.02	Q |V			
12+ 5	0.6762	1.03	Q |V			
12+10	0.6834	1.04	Q |V			
12+15	0.6906	1.05	Q |V			
12+20	0.6979	1.06	Q |V			
12+25	0.7053	1.07	Q | V			
12+30	0.7128	1.09	Q | V			
12+35	0.7204	1.10	Q | V			
12+40	0.7281	1.12	Q | V			
12+45	0.7358	1.13	Q | V			
12+50	0.7437	1.14	Q | V			
12+55	0.7516	1.15	Q | V			
13+ 0	0.7597	1.17	Q | V			
13+ 5	0.7678	1.18	Q | V			
13+10	0.7761	1.20	Q | V			
13+15	0.7844	1.21	Q | V			
13+20	0.7928	1.22	Q | V			
13+25	0.8014	1.24	Q | V			
13+30	0.8100	1.26	Q | V			
13+35	0.8188	1.27	Q | V			
13+40	0.8277	1.29	Q | V			
13+45	0.8367	1.31	Q | V			
13+50	0.8458	1.33	Q | V			
13+55	0.8551	1.35	Q | V			
14+ 0	0.8646	1.37	Q | V			
14+ 5	0.8741	1.39	Q | V			
14+10	0.8839	1.41	Q | V			
14+15	0.8938	1.44	Q | V			
14+20	0.9038	1.46	Q | V			
14+25	0.9141	1.49	Q | V			
14+30	0.9245	1.52	Q | V			
14+35	0.9352	1.55	Q | V			
14+40	0.9461	1.58	Q | V			
14+45	0.9572	1.61	Q | V			
14+50	0.9686	1.65	Q | V			
14+55	0.9802	1.69	Q | V			
15+ 0	0.9922	1.73	Q | V			
15+ 5	1.0044	1.78	Q | V			
15+10	1.0170	1.83	Q | V			
15+15	1.0300	1.89	Q | V			
15+20	1.0434	1.95	Q | V			
15+25	1.0573	2.01	Q | V			
15+30	1.0715	2.06	Q | V			
15+35	1.0860	2.11	Q | V			
15+40	1.1009	2.16	Q | V			
15+45	1.1162	2.22	Q | V			
15+50	1.1320	2.30	Q | V			
15+55	1.1488	2.44	Q | V			
16+ 0	1.1677	2.74	Q V			

16+ 5	1.1926	3.62	
16+10	1.2259	4.83	
16+15	1.2680	6.11	
16+20	1.3180	7.27	
16+25	1.3736	8.07	
16+30	1.4297	8.14	
16+35	1.4802	7.33	
16+40	1.5216	6.01	
16+45	1.5562	5.02	
16+50	1.5861	4.35	
16+55	1.6125	3.83	
17+ 0	1.6366	3.49	
17+ 5	1.6591	3.27	
17+10	1.6801	3.05	
17+15	1.6998	2.86	
17+20	1.7186	2.72	
17+25	1.7363	2.58	
17+30	1.7531	2.43	
17+35	1.7690	2.31	
17+40	1.7842	2.21	
17+45	1.7990	2.14	
17+50	1.8131	2.05	
17+55	1.8264	1.94	
18+ 0	1.8394	1.88	
18+ 5	1.8518	1.81	
18+10	1.8637	1.72	
18+15	1.8752	1.68	
18+20	1.8865	1.64	
18+25	1.8974	1.59	
18+30	1.9081	1.55	
18+35	1.9184	1.50	
18+40	1.9283	1.43	
18+45	1.9379	1.40	
18+50	1.9473	1.36	
18+55	1.9564	1.32	
19+ 0	1.9653	1.29	
19+ 5	1.9739	1.26	
19+10	1.9823	1.22	
19+15	1.9905	1.19	
19+20	1.9985	1.16	
19+25	2.0062	1.12	
19+30	2.0138	1.10	
19+35	2.0213	1.09	
19+40	2.0287	1.07	
19+45	2.0360	1.05	
19+50	2.0431	1.04	
19+55	2.0501	1.02	
20+ 0	2.0569	1.00	
20+ 5	2.0636	0.96	
20+10	2.0697	0.90	
20+15	2.0758	0.88	
20+20	2.0818	0.87	
20+25	2.0877	0.86	
20+30	2.0935	0.84	
20+35	2.0992	0.83	
20+40	2.1049	0.82	
20+45	2.1105	0.81	
20+50	2.1160	0.80	
20+55	2.1215	0.79	

21+ 0	2.1269	0.78	Q				V
21+ 5	2.1322	0.78	Q				V
21+10	2.1375	0.77	Q				V
21+15	2.1427	0.76	Q				V
21+20	2.1479	0.75	Q				V
21+25	2.1530	0.74	Q				V
21+30	2.1581	0.74	Q				V
21+35	2.1631	0.73	Q				V
21+40	2.1681	0.72	Q				V
21+45	2.1731	0.72	Q				V
21+50	2.1780	0.71	Q				V
21+55	2.1828	0.70	Q				V
22+ 0	2.1876	0.70	Q				V
22+ 5	2.1924	0.69	Q				V
22+10	2.1971	0.69	Q				V
22+15	2.2018	0.68	Q				V
22+20	2.2064	0.68	Q				V
22+25	2.2111	0.67	Q				V
22+30	2.2156	0.67	Q				V
22+35	2.2202	0.66	Q				V
22+40	2.2247	0.66	Q				V
22+45	2.2292	0.65	Q				V
22+50	2.2336	0.65	Q				V
22+55	2.2380	0.64	Q				V
23+ 0	2.2424	0.64	Q				V
23+ 5	2.2468	0.63	Q				V
23+10	2.2511	0.63	Q				V
23+15	2.2554	0.62	Q				V
23+20	2.2597	0.62	Q				V
23+25	2.2639	0.62	Q				V
23+30	2.2681	0.61	Q				V
23+35	2.2723	0.61	Q				V
23+40	2.2765	0.60	Q				V
23+45	2.2806	0.60	Q				V
23+50	2.2847	0.60	Q				V
23+55	2.2888	0.59	Q				V
24+ 0	2.2929	0.59	Q				V
24+ 5	2.2969	0.58	Q				V
24+10	2.3007	0.55	Q				V
24+15	2.3042	0.52	Q				V
24+20	2.3074	0.46	Q				V
24+25	2.3101	0.40	Q				V
24+30	2.3124	0.33	Q				V
24+35	2.3143	0.27	Q				V
24+40	2.3158	0.23	Q				V
24+45	2.3172	0.20	Q				V
24+50	2.3184	0.17	Q				V
24+55	2.3194	0.15	Q				V
25+ 0	2.3204	0.14	Q				V
25+ 5	2.3212	0.13	Q				V
25+10	2.3220	0.11	Q				V
25+15	2.3227	0.10	Q				V
25+20	2.3234	0.09	Q				V
25+25	2.3240	0.09	Q				V
25+30	2.3245	0.08	Q				V
25+35	2.3250	0.07	Q				V
25+40	2.3254	0.07	Q				V
25+45	2.3259	0.06	Q				V
25+50	2.3262	0.05	Q				V

25+55	2.3266	0.05	Q	|	|	|	V|
26+ 0	2.3269	0.05	Q	|	|	|	V|
26+ 5	2.3272	0.04	Q	|	|	|	V|
26+10	2.3274	0.04	Q	|	|	|	V|
26+15	2.3277	0.04	Q	|	|	|	V|
26+20	2.3279	0.03	Q	|	|	|	V|
26+25	2.3281	0.03	Q	|	|	|	V|
26+30	2.3283	0.03	Q	|	|	|	V|
26+35	2.3285	0.02	Q	|	|	|	V|
26+40	2.3286	0.02	Q	|	|	|	V|
26+45	2.3287	0.02	Q	|	|	|	V|
26+50	2.3289	0.02	Q	|	|	|	V|
26+55	2.3290	0.02	Q	|	|	|	V|
27+ 0	2.3291	0.01	Q	|	|	|	V|
27+ 5	2.3291	0.01	Q	|	|	|	V|
27+10	2.3292	0.01	Q	|	|	|	V|
27+15	2.3293	0.01	Q	|	|	|	V|
27+20	2.3293	0.01	Q	|	|	|	V|
27+25	2.3294	0.01	Q	|	|	|	V|
27+30	2.3294	0.01	Q	|	|	|	V|
27+35	2.3295	0.01	Q	|	|	|	V|
27+40	2.3295	0.00	Q	|	|	|	V|
27+45	2.3295	0.00	Q	|	|	|	V|
27+50	2.3295	0.00	Q	|	|	|	V|
27+55	2.3296	0.00	Q	|	|	|	V|
28+ 0	2.3296	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA A5
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
2.71	1	1.20
Rainfall data for year 100		
2.71	6	3.00
Rainfall data for year 100		
2.71	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	2.71	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
2.71	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.400 (hours)
++
Watershed area = 2.71(Ac.)
Catchment Lag time = 0.320 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 26.0417
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 2.71(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 32.77 (CFS))		
1	2.415	0.792
2	10.637	2.695
3	25.290	4.802
4	43.561	5.988
5	58.487	4.892
6	67.532	2.964
7	73.250	1.874
8	77.269	1.317
9	80.529	1.068
10	83.215	0.880
11	85.522	0.756
12	87.427	0.624
13	89.031	0.526
14	90.528	0.491

15	91.715	0.389
16	92.796	0.355
17	93.650	0.280
18	94.470	0.269
19	95.253	0.257
20	95.968	0.234
21	96.545	0.189
22	97.077	0.175
23	97.547	0.154
24	97.968	0.138
25	98.332	0.119
26	98.641	0.101
27	98.901	0.085
28	99.161	0.085
29	99.422	0.085
30	99.682	0.085
31	100.000	0.043

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5860	0.1419
3	0.6891	0.1032
4	0.7732	0.0840
5	0.8454	0.0722
6	0.9093	0.0640
7	0.9671	0.0578
8	1.0202	0.0531
9	1.0694	0.0492
10	1.1155	0.0460
11	1.1588	0.0433
12	1.1998	0.0410
13	1.2500	0.0501
14	1.2983	0.0483
15	1.3449	0.0466
16	1.3901	0.0451
17	1.4338	0.0438
18	1.4764	0.0425
19	1.5178	0.0414
20	1.5581	0.0403
21	1.5975	0.0394
22	1.6360	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8843	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9816	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289

40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9136	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1623	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179

99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0774	0.0154
134	4.0927	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141

158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5415	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5826	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7566	0.0132
182	4.7697	0.0131
183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1235	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120

217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3151	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7337	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107

276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9372	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066

42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084

101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143

160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0207
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0403	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0640	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4441	0.0364	0.4077
194	0.0840	0.0364	0.0477
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0174
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115

219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063

278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 3.80(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q				
0+10	0.0002	0.02	Q				
0+15	0.0005	0.05	Q				
0+20	0.0011	0.08	Q				
0+25	0.0019	0.11	Q				
0+30	0.0028	0.13	Q				
0+35	0.0037	0.14	Q				
0+40	0.0048	0.15	Q				
0+45	0.0059	0.16	Q				
0+50	0.0070	0.16	Q				
0+55	0.0081	0.17	Q				
1+ 0	0.0093	0.17	Q				
1+ 5	0.0105	0.17	Q				
1+10	0.0117	0.18	Q				
1+15	0.0130	0.18	Q				
1+20	0.0143	0.18	Q				
1+25	0.0155	0.19	Q				
1+30	0.0168	0.19	Q				
1+35	0.0181	0.19	Q				
1+40	0.0195	0.19	Q				
1+45	0.0208	0.19	QV				
1+50	0.0221	0.20	QV				
1+55	0.0235	0.20	QV				
2+ 0	0.0248	0.20	QV				
2+ 5	0.0262	0.20	QV				
2+10	0.0276	0.20	QV				
2+15	0.0290	0.20	QV				
2+20	0.0304	0.20	QV				
2+25	0.0318	0.20	QV				
2+30	0.0332	0.20	QV				
2+35	0.0346	0.21	QV				
2+40	0.0360	0.21	QV				
2+45	0.0374	0.21	QV				

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2+50       0.0389      0.21  QV          |           |           |           |
2+55       0.0403      0.21  Q V         |           |           |           |
3+ 0       0.0417      0.21  Q V         |           |           |           |
3+ 5       0.0432      0.21  Q V         |           |           |           |
3+10       0.0446      0.21  Q V         |           |           |           |
3+15       0.0461      0.21  Q V         |           |           |           |
3+20       0.0475      0.21  Q V         |           |           |           |
3+25       0.0490      0.21  Q V         |           |           |           |
3+30       0.0505      0.21  Q V         |           |           |           |
3+35       0.0519      0.21  Q V         |           |           |           |
3+40       0.0534      0.21  Q V         |           |           |           |
3+45       0.0549      0.21  Q V         |           |           |           |
3+50       0.0564      0.22  Q V         |           |           |           |
3+55       0.0579      0.22  Q V         |           |           |           |
4+ 0       0.0594      0.22  Q V         |           |           |           |
4+ 5       0.0609      0.22  Q  V        |           |           |           |
4+10       0.0624      0.22  Q  V        |           |           |           |
4+15       0.0639      0.22  Q  V        |           |           |           |
4+20       0.0654      0.22  Q  V        |           |           |           |
4+25       0.0669      0.22  Q  V        |           |           |           |
4+30       0.0684      0.22  Q  V        |           |           |           |
4+35       0.0700      0.22  Q  V        |           |           |           |
4+40       0.0715      0.22  Q  V        |           |           |           |
4+45       0.0730      0.22  Q  V        |           |           |           |
4+50       0.0746      0.22  Q  V        |           |           |           |
4+55       0.0761      0.23  Q  V        |           |           |           |
5+ 0       0.0777      0.23  Q  V        |           |           |           |
5+ 5       0.0792      0.23  Q  V        |           |           |           |
5+10       0.0808      0.23  Q   V       |           |           |           |
5+15       0.0824      0.23  Q   V       |           |           |           |
5+20       0.0840      0.23  Q   V       |           |           |           |
5+25       0.0856      0.23  Q   V       |           |           |           |
5+30       0.0871      0.23  Q   V       |           |           |           |
5+35       0.0887      0.23  Q   V       |           |           |           |
5+40       0.0903      0.23  Q   V       |           |           |           |
5+45       0.0920      0.23  Q   V       |           |           |           |
5+50       0.0936      0.23  Q   V       |           |           |           |
5+55       0.0952      0.24  Q   V       |           |           |           |
6+ 0       0.0968      0.24  Q   V       |           |           |           |
6+ 5       0.0985      0.24  Q   V       |           |           |           |
6+10       0.1001      0.24  Q   V       |           |           |           |
6+15       0.1018      0.24  Q    V      |           |           |           |
6+20       0.1034      0.24  Q    V      |           |           |           |
6+25       0.1051      0.24  Q    V      |           |           |           |
6+30       0.1067      0.24  Q    V      |           |           |           |
6+35       0.1084      0.24  Q    V      |           |           |           |
6+40       0.1101      0.24  Q    V      |           |           |           |
6+45       0.1118      0.25  Q    V      |           |           |           |
6+50       0.1135      0.25  Q    V      |           |           |           |
6+55       0.1152      0.25  Q    V      |           |           |           |
7+ 0       0.1169      0.25  Q    V      |           |           |           |
7+ 5       0.1186      0.25  Q    V      |           |           |           |
7+10       0.1204      0.25  |Q   V      |           |           |           |
7+15       0.1221      0.25  |Q    V     |           |           |           |
7+20       0.1238      0.25  |Q    V     |           |           |           |
7+25       0.1256      0.25  |Q    V     |           |           |           |
7+30       0.1273      0.26  |Q    V     |           |           |           |
7+35       0.1291      0.26  |Q    V     |           |           |           |
7+40       0.1309      0.26  |Q    V     |           |           |           |
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7+45	0.1327	0.26	Q V				
7+50	0.1345	0.26	Q V				
7+55	0.1363	0.26	Q V				
8+ 0	0.1381	0.26	Q V				
8+ 5	0.1399	0.26	Q V				
8+10	0.1417	0.27	Q V				
8+15	0.1436	0.27	Q V				
8+20	0.1454	0.27	Q V				
8+25	0.1473	0.27	Q V				
8+30	0.1491	0.27	Q V				
8+35	0.1510	0.27	Q V				
8+40	0.1529	0.27	Q V				
8+45	0.1548	0.28	Q V				
8+50	0.1567	0.28	Q V				
8+55	0.1586	0.28	Q V				
9+ 0	0.1605	0.28	Q V				
9+ 5	0.1625	0.28	Q V				
9+10	0.1644	0.28	Q V				
9+15	0.1664	0.28	Q V				
9+20	0.1684	0.29	Q V				
9+25	0.1703	0.29	Q V				
9+30	0.1723	0.29	Q V				
9+35	0.1743	0.29	Q V				
9+40	0.1764	0.29	Q V				
9+45	0.1784	0.29	Q V				
9+50	0.1804	0.30	Q V				
9+55	0.1825	0.30	Q V				
10+ 0	0.1846	0.30	Q V				
10+ 5	0.1867	0.30	Q V				
10+10	0.1888	0.30	Q V				
10+15	0.1909	0.31	Q V				
10+20	0.1930	0.31	Q V				
10+25	0.1951	0.31	Q V				
10+30	0.1973	0.31	Q V				
10+35	0.1995	0.32	Q V				
10+40	0.2016	0.32	Q V				
10+45	0.2038	0.32	Q V				
10+50	0.2061	0.32	Q V				
10+55	0.2083	0.32	Q V				
11+ 0	0.2105	0.33	Q V				
11+ 5	0.2128	0.33	Q V				
11+10	0.2151	0.33	Q V				
11+15	0.2174	0.33	Q V				
11+20	0.2197	0.34	Q V				
11+25	0.2221	0.34	Q V				
11+30	0.2244	0.34	Q V				
11+35	0.2268	0.35	Q V				
11+40	0.2292	0.35	Q V				
11+45	0.2316	0.35	Q V				
11+50	0.2341	0.35	Q V				
11+55	0.2365	0.36	Q V				
12+ 0	0.2390	0.36	Q V				
12+ 5	0.2415	0.36	Q V				
12+10	0.2441	0.37	Q V				
12+15	0.2466	0.37	Q V				
12+20	0.2493	0.38	Q V				
12+25	0.2519	0.38	Q V				
12+30	0.2546	0.39	Q V				
12+35	0.2573	0.39	Q V				

12+40	0.2600	0.40	Q	V		
12+45	0.2628	0.40	Q	V		
12+50	0.2656	0.41	Q	V		
12+55	0.2685	0.41	Q	V		
13+ 0	0.2713	0.42	Q	V		
13+ 5	0.2742	0.42	Q	V		
13+10	0.2772	0.43	Q	V		
13+15	0.2802	0.43	Q	V		
13+20	0.2832	0.44	Q	V		
13+25	0.2863	0.44	Q	V		
13+30	0.2894	0.45	Q	V		
13+35	0.2925	0.46	Q	V		
13+40	0.2957	0.46	Q	V		
13+45	0.2989	0.47	Q	V		
13+50	0.3022	0.48	Q	V		
13+55	0.3056	0.49	Q	V		
14+ 0	0.3090	0.49	Q	V		
14+ 5	0.3124	0.50	Q	V		
14+10	0.3160	0.51	Q	V		
14+15	0.3196	0.52	Q	V		
14+20	0.3232	0.53	Q	V		
14+25	0.3269	0.54	Q	V		
14+30	0.3307	0.55	Q	V		
14+35	0.3346	0.56	Q	V		
14+40	0.3386	0.58	Q	V		
14+45	0.3427	0.59	Q	V		
14+50	0.3468	0.61	Q	V		
14+55	0.3511	0.62	Q	V		
15+ 0	0.3555	0.64	Q	V		
15+ 5	0.3600	0.66	Q	V		
15+10	0.3647	0.68	Q	V		
15+15	0.3696	0.70	Q	V		
15+20	0.3746	0.73	Q	V		
15+25	0.3798	0.75	Q	V		
15+30	0.3851	0.77	Q	V		
15+35	0.3904	0.78	Q	V		
15+40	0.3958	0.79	Q	V		
15+45	0.4014	0.81	Q	V		
15+50	0.4074	0.87	Q	V		
15+55	0.4140	0.96	Q	V		
16+ 0	0.4219	1.14	Q	V		
16+ 5	0.4335	1.69	Q	V		
16+10	0.4515	2.61	Q	V		
16+15	0.4754	3.47	Q	V		
16+20	0.5015	3.80	Q	V		
16+25	0.5237	3.21	Q	V		
16+30	0.5399	2.35	Q	V		
16+35	0.5525	1.83	Q	V		
16+40	0.5631	1.55	Q	V		
16+45	0.5727	1.39	Q	V		
16+50	0.5813	1.26	Q	V		
16+55	0.5893	1.16	Q	V		
17+ 0	0.5966	1.06	Q	V		
17+ 5	0.6033	0.98	Q	V		
17+10	0.6097	0.92	Q	V		
17+15	0.6155	0.85	Q	V		
17+20	0.6211	0.81	Q	V		
17+25	0.6263	0.75	Q	V		
17+30	0.6312	0.72	Q	V		

17+35	0.6360	0.69	Q			V	
17+40	0.6406	0.66	Q			V	
17+45	0.6449	0.62	Q			V	
17+50	0.6490	0.60	Q			V	
17+55	0.6530	0.57	Q			V	
18+ 0	0.6568	0.55	Q			V	
18+ 5	0.6604	0.53	Q			V	
18+10	0.6639	0.51	Q			V	
18+15	0.6672	0.49	Q			V	
18+20	0.6705	0.47	Q			V	
18+25	0.6737	0.46	Q			V	
18+30	0.6767	0.44	Q			V	
18+35	0.6796	0.41	Q			V	
18+40	0.6822	0.39	Q			V	
18+45	0.6848	0.38	Q			V	
18+50	0.6874	0.37	Q			V	
18+55	0.6899	0.36	Q			V	
19+ 0	0.6923	0.36	Q			V	
19+ 5	0.6947	0.35	Q			V	
19+10	0.6971	0.34	Q			V	
19+15	0.6994	0.34	Q			V	
19+20	0.7017	0.33	Q			V	
19+25	0.7039	0.33	Q			V	
19+30	0.7061	0.32	Q			V	
19+35	0.7083	0.32	Q			V	
19+40	0.7105	0.31	Q			V	
19+45	0.7126	0.31	Q			V	
19+50	0.7147	0.30	Q			V	
19+55	0.7167	0.30	Q			V	
20+ 0	0.7187	0.29	Q			V	
20+ 5	0.7207	0.29	Q			V	
20+10	0.7227	0.29	Q			V	
20+15	0.7247	0.28	Q			V	
20+20	0.7266	0.28	Q			V	
20+25	0.7285	0.28	Q			V	
20+30	0.7304	0.27	Q			V	
20+35	0.7323	0.27	Q			V	
20+40	0.7342	0.27	Q			V	
20+45	0.7360	0.27	Q			V	
20+50	0.7378	0.26	Q			V	
20+55	0.7396	0.26	Q			V	
21+ 0	0.7414	0.26	Q			V	
21+ 5	0.7431	0.26	Q			V	
21+10	0.7449	0.25	Q			V	
21+15	0.7466	0.25	Q			V	
21+20	0.7483	0.25	Q			V	
21+25	0.7500	0.25	Q			V	
21+30	0.7517	0.24	Q			V	
21+35	0.7534	0.24	Q			V	
21+40	0.7551	0.24	Q			V	
21+45	0.7567	0.24	Q			V	
21+50	0.7583	0.24	Q			V	
21+55	0.7600	0.24	Q			V	
22+ 0	0.7616	0.23	Q			V	
22+ 5	0.7632	0.23	Q			V	
22+10	0.7647	0.23	Q			V	
22+15	0.7663	0.23	Q			V	
22+20	0.7679	0.23	Q			V	
22+25	0.7694	0.22	Q			V	

22+30	0.7709	0.22	Q	|	|	|	V |
22+35	0.7725	0.22	Q	|	|	|	V |
22+40	0.7740	0.22	Q	|	|	|	V |
22+45	0.7755	0.22	Q	|	|	|	V |
22+50	0.7770	0.22	Q	|	|	|	V |
22+55	0.7785	0.22	Q	|	|	|	V |
23+ 0	0.7799	0.21	Q	|	|	|	V |
23+ 5	0.7814	0.21	Q	|	|	|	V |
23+10	0.7829	0.21	Q	|	|	|	V |
23+15	0.7843	0.21	Q	|	|	|	V |
23+20	0.7858	0.21	Q	|	|	|	V|
23+25	0.7872	0.21	Q	|	|	|	V|
23+30	0.7886	0.21	Q	|	|	|	V|
23+35	0.7900	0.21	Q	|	|	|	V|
23+40	0.7914	0.20	Q	|	|	|	V|
23+45	0.7928	0.20	Q	|	|	|	V|
23+50	0.7942	0.20	Q	|	|	|	V|
23+55	0.7956	0.20	Q	|	|	|	V|
24+ 0	0.7970	0.20	Q	|	|	|	V|
24+ 5	0.7983	0.19	Q	|	|	|	V|
24+10	0.7995	0.18	Q	|	|	|	V|
24+15	0.8005	0.15	Q	|	|	|	V|
24+20	0.8013	0.11	Q	|	|	|	V|
24+25	0.8019	0.08	Q	|	|	|	V|
24+30	0.8023	0.06	Q	|	|	|	V|
24+35	0.8027	0.05	Q	|	|	|	V|
24+40	0.8030	0.05	Q	|	|	|	V|
24+45	0.8032	0.04	Q	|	|	|	V|
24+50	0.8035	0.03	Q	|	|	|	V|
24+55	0.8037	0.03	Q	|	|	|	V|
25+ 0	0.8038	0.02	Q	|	|	|	V|
25+ 5	0.8040	0.02	Q	|	|	|	V|
25+10	0.8041	0.02	Q	|	|	|	V|
25+15	0.8042	0.02	Q	|	|	|	V|
25+20	0.8043	0.01	Q	|	|	|	V|
25+25	0.8044	0.01	Q	|	|	|	V|
25+30	0.8045	0.01	Q	|	|	|	V|
25+35	0.8045	0.01	Q	|	|	|	V|
25+40	0.8046	0.01	Q	|	|	|	V|
25+45	0.8046	0.01	Q	|	|	|	V|
25+50	0.8047	0.01	Q	|	|	|	V|
25+55	0.8047	0.00	Q	|	|	|	V|
26+ 0	0.8047	0.00	Q	|	|	|	V|
26+ 5	0.8047	0.00	Q	|	|	|	V|
26+10	0.8048	0.00	Q	|	|	|	V|
26+15	0.8048	0.00	Q	|	|	|	V|
26+20	0.8048	0.00	Q	|	|	|	V|
26+25	0.8048	0.00	Q	|	|	|	V|
26+30	0.8048	0.00	Q	|	|	|	V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA A6
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
5.22	1	1.20
Rainfall data for year 100		
5.22	6	3.00
Rainfall data for year 100		
5.22	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	5.22	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
5.22	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.486 (hours)
++
Watershed area = 5.22(Ac.)
Catchment Lag time = 0.389 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 21.4335
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 5.22(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 63.13 (CFS))		
1	1.922	1.213
2	7.754	3.682
3	17.975	6.453
4	32.067	8.896
5	47.213	9.562
6	58.888	7.371
7	66.464	4.783
8	71.686	3.297
9	75.357	2.317
10	78.401	1.922
11	80.952	1.610
12	83.134	1.377
13	85.072	1.223
14	86.733	1.049

15	88.147	0.893
16	89.433	0.812
17	90.642	0.763
18	91.604	0.607
19	92.532	0.586
20	93.274	0.469
21	93.960	0.433
22	94.625	0.419
23	95.268	0.406
24	95.872	0.381
25	96.353	0.304
26	96.819	0.295
27	97.224	0.255
28	97.610	0.244
29	97.952	0.216
30	98.252	0.189
31	98.533	0.177
32	98.752	0.138
33	98.966	0.135
34	99.180	0.135
35	99.395	0.135
36	99.609	0.135
37	99.823	0.135
38	100.000	0.112

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7731	0.0840
5	0.8453	0.0722
6	0.9092	0.0639
7	0.9670	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1153	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2499	0.0501
14	1.2981	0.0483
15	1.3448	0.0466
16	1.3899	0.0451
17	1.4337	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8165	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9171	0.0330
31	1.9496	0.0324
32	1.9815	0.0319

33	2.0129	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1224	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186

92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4820	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7080	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9210	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145

151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4440	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7696	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122

210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108

269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9476	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064

35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081

94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130

153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0208
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0404	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0639	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4440	0.0364	0.4076
194	0.0840	0.0364	0.0476
195	0.0578	0.0252	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0175
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138

212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065

271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 6.34(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q				
0+10	0.0002	0.03	Q				
0+15	0.0007	0.07	Q				
0+20	0.0015	0.12	Q				
0+25	0.0027	0.18	Q				
0+30	0.0042	0.22	Q				
0+35	0.0060	0.25	Q				
0+40	0.0078	0.27	VQ				
0+45	0.0097	0.28	VQ				
0+50	0.0118	0.29	VQ				
0+55	0.0139	0.30	VQ				
1+ 0	0.0160	0.31	VQ				
1+ 5	0.0182	0.32	VQ				
1+10	0.0205	0.33	VQ				
1+15	0.0228	0.33	VQ				
1+20	0.0252	0.34	VQ				
1+25	0.0275	0.35	VQ				
1+30	0.0299	0.35	VQ				
1+35	0.0324	0.35	VQ				
1+40	0.0349	0.36	VQ				
1+45	0.0374	0.36	VQ				
1+50	0.0399	0.37	|Q				
1+55	0.0424	0.37	|Q				
2+ 0	0.0450	0.37	|Q				
2+ 5	0.0476	0.38	|Q				
2+10	0.0502	0.38	|Q				

2+15	0.0528	0.38	Q	|	|	|	|
2+20	0.0554	0.38	Q	|	|	|	|
2+25	0.0581	0.39	Q	|	|	|	|
2+30	0.0607	0.39	Q	|	|	|	|
2+35	0.0634	0.39	Q	|	|	|	|
2+40	0.0661	0.39	Q	|	|	|	|
2+45	0.0688	0.39	Q	|	|	|	|
2+50	0.0716	0.40	Q	|	|	|	|
2+55	0.0743	0.40	Q	|	|	|	|
3+ 0	0.0771	0.40	Q	|	|	|	|
3+ 5	0.0798	0.40	QV	|	|	|	|
3+10	0.0826	0.40	QV	|	|	|	|
3+15	0.0854	0.40	QV	|	|	|	|
3+20	0.0882	0.41	QV	|	|	|	|
3+25	0.0910	0.41	QV	|	|	|	|
3+30	0.0938	0.41	QV	|	|	|	|
3+35	0.0966	0.41	QV	|	|	|	|
3+40	0.0995	0.41	QV	|	|	|	|
3+45	0.1023	0.41	QV	|	|	|	|
3+50	0.1052	0.41	QV	|	|	|	|
3+55	0.1080	0.42	QV	|	|	|	|
4+ 0	0.1109	0.42	QV	|	|	|	|
4+ 5	0.1138	0.42	QV	|	|	|	|
4+10	0.1167	0.42	Q V	|	|	|	|
4+15	0.1196	0.42	Q V	|	|	|	|
4+20	0.1225	0.42	Q V	|	|	|	|
4+25	0.1254	0.42	Q V	|	|	|	|
4+30	0.1283	0.43	Q V	|	|	|	|
4+35	0.1313	0.43	Q V	|	|	|	|
4+40	0.1342	0.43	Q V	|	|	|	|
4+45	0.1372	0.43	Q V	|	|	|	|
4+50	0.1401	0.43	Q V	|	|	|	|
4+55	0.1431	0.43	Q V	|	|	|	|
5+ 0	0.1461	0.43	Q V	|	|	|	|
5+ 5	0.1491	0.44	Q V	|	|	|	|
5+10	0.1521	0.44	Q V	|	|	|	|
5+15	0.1552	0.44	Q V	|	|	|	|
5+20	0.1582	0.44	Q V	|	|	|	|
5+25	0.1612	0.44	Q V	|	|	|	|
5+30	0.1643	0.44	Q V	|	|	|	|
5+35	0.1674	0.45	Q V	|	|	|	|
5+40	0.1705	0.45	Q V	|	|	|	|
5+45	0.1735	0.45	Q V	|	|	|	|
5+50	0.1767	0.45	Q V	|	|	|	|
5+55	0.1798	0.45	Q V	|	|	|	|
6+ 0	0.1829	0.45	Q V	|	|	|	|
6+ 5	0.1860	0.46	Q V	|	|	|	|
6+10	0.1892	0.46	Q V	|	|	|	|
6+15	0.1924	0.46	Q V	|	|	|	|
6+20	0.1955	0.46	Q V	|	|	|	|
6+25	0.1987	0.46	Q V	|	|	|	|
6+30	0.2019	0.47	Q V	|	|	|	|
6+35	0.2052	0.47	Q V	|	|	|	|
6+40	0.2084	0.47	Q V	|	|	|	|
6+45	0.2116	0.47	Q V	|	|	|	|
6+50	0.2149	0.47	Q V	|	|	|	|
6+55	0.2182	0.48	Q V	|	|	|	|
7+ 0	0.2215	0.48	Q V	|	|	|	|
7+ 5	0.2248	0.48	Q V	|	|	|	|

7+10	0.2281	0.48	Q V	|	|	|	|
7+15	0.2314	0.48	Q V	|	|	|	|
7+20	0.2348	0.49	Q V	|	|	|	|
7+25	0.2381	0.49	Q V	|	|	|	|
7+30	0.2415	0.49	Q V	|	|	|	|
7+35	0.2449	0.49	Q V	|	|	|	|
7+40	0.2483	0.49	Q V	|	|	|	|
7+45	0.2517	0.50	Q V	|	|	|	|
7+50	0.2552	0.50	Q V	|	|	|	|
7+55	0.2586	0.50	Q V	|	|	|	|
8+ 0	0.2621	0.50	Q V	|	|	|	|
8+ 5	0.2656	0.51	Q V	|	|	|	|
8+10	0.2691	0.51	Q V	|	|	|	|
8+15	0.2726	0.51	Q V	|	|	|	|
8+20	0.2762	0.51	Q V	|	|	|	|
8+25	0.2797	0.52	Q V	|	|	|	|
8+30	0.2833	0.52	Q V	|	|	|	|
8+35	0.2869	0.52	Q V	|	|	|	|
8+40	0.2905	0.53	Q V	|	|	|	|
8+45	0.2941	0.53	Q V	|	|	|	|
8+50	0.2978	0.53	Q V	|	|	|	|
8+55	0.3015	0.53	Q V	|	|	|	|
9+ 0	0.3052	0.54	Q V	|	|	|	|
9+ 5	0.3089	0.54	Q V	|	|	|	|
9+10	0.3126	0.54	Q V	|	|	|	|
9+15	0.3164	0.55	Q V	|	|	|	|
9+20	0.3202	0.55	Q V	|	|	|	|
9+25	0.3240	0.55	Q V	|	|	|	|
9+30	0.3278	0.56	Q V	|	|	|	|
9+35	0.3316	0.56	Q V	|	|	|	|
9+40	0.3355	0.56	Q V	|	|	|	|
9+45	0.3394	0.57	Q V	|	|	|	|
9+50	0.3433	0.57	Q V	|	|	|	|
9+55	0.3472	0.57	Q V	|	|	|	|
10+ 0	0.3512	0.58	Q V	|	|	|	|
10+ 5	0.3552	0.58	Q V	|	|	|	|
10+10	0.3592	0.58	Q V	|	|	|	|
10+15	0.3633	0.59	Q V	|	|	|	|
10+20	0.3673	0.59	Q V	|	|	|	|
10+25	0.3714	0.59	Q V	|	|	|	|
10+30	0.3756	0.60	Q V	|	|	|	|
10+35	0.3797	0.60	Q V	|	|	|	|
10+40	0.3839	0.61	Q V	|	|	|	|
10+45	0.3881	0.61	Q V	|	|	|	|
10+50	0.3923	0.62	Q V	|	|	|	|
10+55	0.3966	0.62	Q V	|	|	|	|
11+ 0	0.4009	0.63	Q V	|	|	|	|
11+ 5	0.4053	0.63	Q V	|	|	|	|
11+10	0.4096	0.63	Q V	|	|	|	|
11+15	0.4140	0.64	Q V	|	|	|	|
11+20	0.4185	0.64	Q V	|	|	|	|
11+25	0.4229	0.65	Q V	|	|	|	|
11+30	0.4275	0.66	Q V	|	|	|	|
11+35	0.4320	0.66	Q V	|	|	|	|
11+40	0.4366	0.67	Q V	|	|	|	|
11+45	0.4412	0.67	Q V	|	|	|	|
11+50	0.4459	0.68	Q V	|	|	|	|
11+55	0.4506	0.68	Q V	|	|	|	|
12+ 0	0.4554	0.69	Q V	|	|	|	|

12+ 5	0.4601	0.70	Q	V			
12+10	0.4650	0.70	Q	V			
12+15	0.4699	0.71	Q	V			
12+20	0.4749	0.72	Q	V			
12+25	0.4799	0.73	Q	V			
12+30	0.4850	0.74	Q	V			
12+35	0.4902	0.75	Q	V			
12+40	0.4954	0.76	Q	V			
12+45	0.5007	0.77	Q	V			
12+50	0.5060	0.78	Q	V			
12+55	0.5114	0.79	Q	V			
13+ 0	0.5169	0.79	Q	V			
13+ 5	0.5225	0.80	Q	V			
13+10	0.5281	0.81	Q	V			
13+15	0.5337	0.82	Q	V			
13+20	0.5395	0.83	Q	V			
13+25	0.5453	0.85	Q	V			
13+30	0.5512	0.86	Q	V			
13+35	0.5572	0.87	Q	V			
13+40	0.5633	0.88	Q	V			
13+45	0.5694	0.89	Q	V			
13+50	0.5757	0.91	Q	V			
13+55	0.5820	0.92	Q	V			
14+ 0	0.5885	0.94	Q	V			
14+ 5	0.5950	0.95	Q	V			
14+10	0.6017	0.97	Q	V			
14+15	0.6085	0.99	Q	V			
14+20	0.6154	1.00	Q	V			
14+25	0.6225	1.02	Q	V			
14+30	0.6297	1.04	Q	V			
14+35	0.6370	1.07	Q	V			
14+40	0.6445	1.09	Q	V			
14+45	0.6522	1.11	Q	V			
14+50	0.6600	1.14	Q	V			
14+55	0.6681	1.17	Q	V			
15+ 0	0.6763	1.20	Q	V			
15+ 5	0.6849	1.24	Q	V			
15+10	0.6936	1.27	Q	V			
15+15	0.7027	1.31	Q	V			
15+20	0.7121	1.36	Q	V			
15+25	0.7217	1.41	Q	V			
15+30	0.7317	1.44	Q	V			
15+35	0.7418	1.47	Q	V			
15+40	0.7521	1.49	Q	V			
15+45	0.7626	1.53	Q	V			
15+50	0.7737	1.60	Q	V			
15+55	0.7857	1.75	Q	V			
16+ 0	0.7997	2.03	Q	V			
16+ 5	0.8193	2.84	Q	V			
16+10	0.8476	4.12	Q	V			
16+15	0.8848	5.40	Q	V			
16+20	0.9283	6.32	Q	V			
16+25	0.9720	6.34	Q	V			
16+30	1.0083	5.26	Q	V			
16+35	1.0363	4.07	Q	V			
16+40	1.0592	3.33	Q	V			
16+45	1.0787	2.83	Q	V			
16+50	1.0964	2.57	Q	V			
16+55	1.1126	2.35	Q	V			

| | | |

21+55	1.4623	0.46	Q				V
22+ 0	1.4654	0.46	Q				V
22+ 5	1.4685	0.45	Q				V
22+10	1.4716	0.45	Q				V
22+15	1.4747	0.44	Q				V
22+20	1.4777	0.44	Q				V
22+25	1.4808	0.44	Q				V
22+30	1.4837	0.44	Q				V
22+35	1.4867	0.43	Q				V
22+40	1.4897	0.43	Q				V
22+45	1.4926	0.43	Q				V
22+50	1.4955	0.42	Q				V
22+55	1.4984	0.42	Q				V
23+ 0	1.5013	0.42	Q				V
23+ 5	1.5042	0.41	Q				V
23+10	1.5070	0.41	Q				V
23+15	1.5098	0.41	Q				V
23+20	1.5126	0.41	Q				V
23+25	1.5154	0.40	Q				V
23+30	1.5182	0.40	Q				V
23+35	1.5209	0.40	Q				V
23+40	1.5236	0.40	Q				V
23+45	1.5264	0.39	Q				V
23+50	1.5291	0.39	Q				V
23+55	1.5317	0.39	Q				V
24+ 0	1.5344	0.39	Q				V
24+ 5	1.5370	0.38	Q				V
24+10	1.5395	0.35	Q				V
24+15	1.5416	0.31	Q				V
24+20	1.5434	0.26	Q				V
24+25	1.5448	0.20	Q				V
24+30	1.5459	0.16	Q				V
24+35	1.5468	0.13	Q				V
24+40	1.5476	0.11	Q				V
24+45	1.5482	0.10	Q				V
24+50	1.5488	0.08	Q				V
24+55	1.5493	0.07	Q				V
25+ 0	1.5498	0.07	Q				V
25+ 5	1.5502	0.06	Q				V
25+10	1.5505	0.05	Q				V
25+15	1.5508	0.05	Q				V
25+20	1.5511	0.04	Q				V
25+25	1.5514	0.04	Q				V
25+30	1.5516	0.03	Q				V
25+35	1.5518	0.03	Q				V
25+40	1.5520	0.03	Q				V
25+45	1.5521	0.02	Q				V
25+50	1.5523	0.02	Q				V
25+55	1.5524	0.02	Q				V
26+ 0	1.5525	0.02	Q				V
26+ 5	1.5526	0.01	Q				V
26+10	1.5527	0.01	Q				V
26+15	1.5528	0.01	Q				V
26+20	1.5528	0.01	Q				V
26+25	1.5529	0.01	Q				V
26+30	1.5529	0.01	Q				V
26+35	1.5530	0.01	Q				V
26+40	1.5530	0.00	Q				V
26+45	1.5530	0.00	Q				V

26+50	1.5530	0.00	Q	|	|	|	V|
26+55	1.5531	0.00	Q	|	|	|	V|
27+ 0	1.5531	0.00	Q	|	|	|	V|
27+ 5	1.5531	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT AREA A7
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
2.25	1	1.20
Rainfall data for year 100		
2.25	6	3.00
Rainfall data for year 100		
2.25	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	2.25	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
2.25	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.362 (hours)
++
Watershed area = 2.25(Ac.)
Catchment Lag time = 0.290 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 28.7753
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 2.25(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 27.21 (CFS))		
1	2.743	0.747
2	12.594	2.680
3	29.966	4.727
4	49.748	5.383
5	63.270	3.680
6	71.129	2.139
7	76.079	1.347
8	79.888	1.037
9	82.942	0.831
10	85.511	0.699
11	87.597	0.568
12	89.355	0.478
13	90.920	0.426
14	92.191	0.346

15	93.252	0.289
16	94.169	0.250
17	95.044	0.238
18	95.862	0.223
19	96.512	0.177
20	97.099	0.160
21	97.617	0.141
22	98.061	0.121
23	98.454	0.107
24	98.762	0.084
25	99.050	0.078
26	99.338	0.078
27	99.625	0.078
28	100.000	0.039

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5860	0.1419
3	0.6891	0.1032
4	0.7732	0.0840
5	0.8454	0.0722
6	0.9093	0.0640
7	0.9672	0.0578
8	1.0202	0.0531
9	1.0694	0.0492
10	1.1155	0.0460
11	1.1588	0.0433
12	1.1999	0.0410
13	1.2500	0.0501
14	1.2983	0.0483
15	1.3449	0.0466
16	1.3901	0.0451
17	1.4339	0.0438
18	1.4764	0.0425
19	1.5178	0.0414
20	1.5581	0.0403
21	1.5975	0.0394
22	1.6360	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8843	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9816	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279

43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5150	0.0253
52	2.5401	0.0251
53	2.5649	0.0249
54	2.5896	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6622	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8020	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9136	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1623	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176

102	3.5707	0.0175
103	3.5882	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8406	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0774	0.0154
134	4.0927	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2131	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140

161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5415	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5826	0.0137
169	4.5962	0.0136
170	4.6098	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6771	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7566	0.0132
182	4.7697	0.0131
183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1235	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120

220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3151	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4199	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5902	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7337	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8737	0.0107
277	5.8843	0.0106
278	5.8949	0.0106

279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9372	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9687	0.0105
286	5.9791	0.0105
287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067

45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086

104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149

163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0207
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0403	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0640	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4441	0.0364	0.4077
194	0.0840	0.0364	0.0477
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0174
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108

222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062

281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 3.28(CFS)

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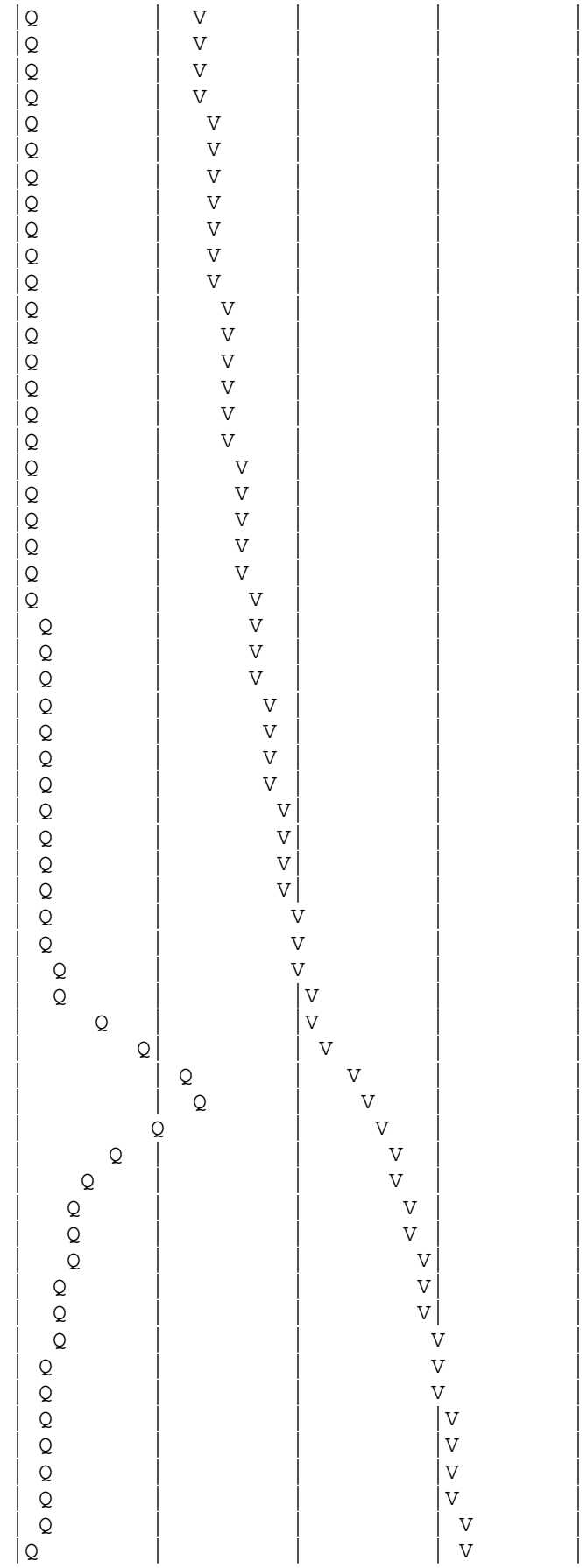
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q				
0+10	0.0002	0.02	Q				
0+15	0.0005	0.05	Q				
0+20	0.0010	0.08	Q				
0+25	0.0017	0.10	Q				
0+30	0.0025	0.11	Q				
0+35	0.0034	0.12	Q				
0+40	0.0043	0.13	Q				
0+45	0.0052	0.13	Q				
0+50	0.0061	0.14	Q				
0+55	0.0071	0.14	Q				
1+ 0	0.0081	0.15	Q				
1+ 5	0.0091	0.15	Q				
1+10	0.0102	0.15	Q				
1+15	0.0112	0.15	Q				
1+20	0.0123	0.15	Q				
1+25	0.0134	0.16	Q				
1+30	0.0145	0.16	Q				
1+35	0.0156	0.16	Q				
1+40	0.0167	0.16	Q				
1+45	0.0178	0.16	QV				
1+50	0.0189	0.16	QV				
1+55	0.0201	0.16	QV				
2+ 0	0.0212	0.17	QV				
2+ 5	0.0224	0.17	QV				
2+10	0.0235	0.17	QV				
2+15	0.0247	0.17	QV				
2+20	0.0258	0.17	QV				
2+25	0.0270	0.17	QV				
2+30	0.0282	0.17	QV				
2+35	0.0294	0.17	QV				
2+40	0.0305	0.17	QV				
2+45	0.0317	0.17	QV				
2+50	0.0329	0.17	QV				
2+55	0.0341	0.17	Q V				
3+ 0	0.0353	0.17	Q V				

3+ 5	0.0365	0.17	Q V	|	|	|	|
3+10	0.0377	0.17	Q V	|	|	|	|
3+15	0.0389	0.18	Q V	|	|	|	|
3+20	0.0401	0.18	Q V	|	|	|	|
3+25	0.0413	0.18	Q V	|	|	|	|
3+30	0.0425	0.18	Q V	|	|	|	|
3+35	0.0438	0.18	Q V	|	|	|	|
3+40	0.0450	0.18	Q V	|	|	|	|
3+45	0.0462	0.18	Q V	|	|	|	|
3+50	0.0475	0.18	Q V	|	|	|	|
3+55	0.0487	0.18	Q V	|	|	|	|
4+ 0	0.0499	0.18	Q V	|	|	|	|
4+ 5	0.0512	0.18	Q V	|	|	|	|
4+10	0.0524	0.18	Q V	|	|	|	|
4+15	0.0537	0.18	Q V	|	|	|	|
4+20	0.0549	0.18	Q V	|	|	|	|
4+25	0.0562	0.18	Q V	|	|	|	|
4+30	0.0575	0.18	Q V	|	|	|	|
4+35	0.0587	0.18	Q V	|	|	|	|
4+40	0.0600	0.19	Q V	|	|	|	|
4+45	0.0613	0.19	Q V	|	|	|	|
4+50	0.0626	0.19	Q V	|	|	|	|
4+55	0.0639	0.19	Q V	|	|	|	|
5+ 0	0.0652	0.19	Q V	|	|	|	|
5+ 5	0.0665	0.19	Q V	|	|	|	|
5+10	0.0678	0.19	Q V	|	|	|	|
5+15	0.0691	0.19	Q V	|	|	|	|
5+20	0.0704	0.19	Q V	|	|	|	|
5+25	0.0717	0.19	Q V	|	|	|	|
5+30	0.0730	0.19	Q V	|	|	|	|
5+35	0.0744	0.19	Q V	|	|	|	|
5+40	0.0757	0.19	Q V	|	|	|	|
5+45	0.0770	0.19	Q V	|	|	|	|
5+50	0.0784	0.20	Q V	|	|	|	|
5+55	0.0797	0.20	Q V	|	|	|	|
6+ 0	0.0811	0.20	Q V	|	|	|	|
6+ 5	0.0825	0.20	Q V	|	|	|	|
6+10	0.0838	0.20	Q V	|	|	|	|
6+15	0.0852	0.20	Q V	|	|	|	|
6+20	0.0866	0.20	Q V	|	|	|	|
6+25	0.0880	0.20	Q V	|	|	|	|
6+30	0.0893	0.20	Q V	|	|	|	|
6+35	0.0907	0.20	Q V	|	|	|	|
6+40	0.0921	0.20	Q V	|	|	|	|
6+45	0.0935	0.20	Q V	|	|	|	|
6+50	0.0950	0.21	Q V	|	|	|	|
6+55	0.0964	0.21	Q V	|	|	|	|
7+ 0	0.0978	0.21	Q V	|	|	|	|
7+ 5	0.0992	0.21	Q V	|	|	|	|
7+10	0.1007	0.21	Q V	|	|	|	|
7+15	0.1021	0.21	Q V	|	|	|	|
7+20	0.1036	0.21	Q V	|	|	|	|
7+25	0.1050	0.21	Q V	|	|	|	|
7+30	0.1065	0.21	Q V	|	|	|	|
7+35	0.1080	0.21	Q V	|	|	|	|
7+40	0.1094	0.21	Q V	|	|	|	|
7+45	0.1109	0.22	Q V	|	|	|	|
7+50	0.1124	0.22	Q V	|	|	|	|
7+55	0.1139	0.22	Q V	|	|	|	|

8+ 0	0.1154	0.22	Q	V	|	|	|	|
8+ 5	0.1169	0.22	Q	V	|	|	|	|
8+10	0.1184	0.22	Q	V	|	|	|	|
8+15	0.1200	0.22	Q	V	|	|	|	|
8+20	0.1215	0.22	Q	V	|	|	|	|
8+25	0.1231	0.22	Q	V	|	|	|	|
8+30	0.1246	0.23	Q	V	|	|	|	|
8+35	0.1262	0.23	Q	V	|	|	|	|
8+40	0.1277	0.23	Q	V	|	|	|	|
8+45	0.1293	0.23	Q	V	|	|	|	|
8+50	0.1309	0.23	Q	V	|	|	|	|
8+55	0.1325	0.23	Q	V	|	|	|	|
9+ 0	0.1341	0.23	Q	V	|	|	|	|
9+ 5	0.1357	0.23	Q	V	|	|	|	|
9+10	0.1373	0.24	Q	V	|	|	|	|
9+15	0.1390	0.24	Q	V	|	|	|	|
9+20	0.1406	0.24	Q	V	|	|	|	|
9+25	0.1423	0.24	Q	V	|	|	|	|
9+30	0.1439	0.24	Q	V	|	|	|	|
9+35	0.1456	0.24	Q	V	|	|	|	|
9+40	0.1473	0.24	Q	V	|	|	|	|
9+45	0.1490	0.25	Q	V	|	|	|	|
9+50	0.1507	0.25	Q	V	|	|	|	|
9+55	0.1524	0.25	Q	V	|	|	|	|
10+ 0	0.1541	0.25	|Q	V	|	|	|	|
10+ 5	0.1558	0.25	|Q	V	|	|	|	|
10+10	0.1576	0.25	|Q	V	|	|	|	|
10+15	0.1593	0.26	|Q	V	|	|	|	|
10+20	0.1611	0.26	|Q	V	|	|	|	|
10+25	0.1629	0.26	|Q	V	|	|	|	|
10+30	0.1647	0.26	|Q	V	|	|	|	|
10+35	0.1665	0.26	|Q	V	|	|	|	|
10+40	0.1683	0.26	|Q	V	|	|	|	|
10+45	0.1701	0.27	|Q	V	|	|	|	|
10+50	0.1720	0.27	|Q	V	|	|	|	|
10+55	0.1739	0.27	|Q	V	|	|	|	|
11+ 0	0.1757	0.27	|Q	V	|	|	|	|
11+ 5	0.1776	0.27	|Q	V	|	|	|	|
11+10	0.1795	0.28	|Q	V	|	|	|	|
11+15	0.1814	0.28	|Q	V	|	|	|	|
11+20	0.1834	0.28	|Q	V	|	|	|	|
11+25	0.1853	0.28	|Q	|V	|	|	|	|
11+30	0.1873	0.29	|Q	|V	|	|	|	|
11+35	0.1893	0.29	|Q	|V	|	|	|	|
11+40	0.1913	0.29	|Q	|V	|	|	|	|
11+45	0.1933	0.29	|Q	|V	|	|	|	|
11+50	0.1953	0.30	|Q	|V	|	|	|	|
11+55	0.1974	0.30	|Q	|V	|	|	|	|
12+ 0	0.1995	0.30	|Q	|V	|	|	|	|
12+ 5	0.2016	0.30	|Q	| V	|	|	|	|
12+10	0.2037	0.31	|Q	| V	|	|	|	|
12+15	0.2058	0.31	|Q	| V	|	|	|	|
12+20	0.2080	0.32	|Q	| V	|	|	|	|
12+25	0.2102	0.32	|Q	| V	|	|	|	|
12+30	0.2125	0.32	|Q	| V	|	|	|	|
12+35	0.2147	0.33	|Q	| V	|	|	|	|
12+40	0.2170	0.33	|Q	| V	|	|	|	|
12+45	0.2193	0.34	|Q	| V	|	|	|	|
12+50	0.2217	0.34	|Q	| V	|	|	|	|

12+55	0.2240	0.34	
13+ 0	0.2264	0.35	
13+ 5	0.2289	0.35	
13+10	0.2313	0.36	
13+15	0.2338	0.36	
13+20	0.2363	0.37	
13+25	0.2389	0.37	
13+30	0.2415	0.38	
13+35	0.2441	0.38	
13+40	0.2468	0.39	
13+45	0.2495	0.39	
13+50	0.2523	0.40	
13+55	0.2551	0.41	
14+ 0	0.2579	0.41	
14+ 5	0.2608	0.42	
14+10	0.2637	0.43	
14+15	0.2667	0.44	
14+20	0.2698	0.44	
14+25	0.2729	0.45	
14+30	0.2761	0.46	
14+35	0.2794	0.47	
14+40	0.2827	0.48	
14+45	0.2861	0.50	
14+50	0.2896	0.51	
14+55	0.2932	0.52	
15+ 0	0.2969	0.54	
15+ 5	0.3007	0.55	
15+10	0.3046	0.57	
15+15	0.3087	0.59	
15+20	0.3129	0.61	
15+25	0.3173	0.63	
15+30	0.3218	0.65	
15+35	0.3263	0.65	
15+40	0.3308	0.66	
15+45	0.3355	0.68	
15+50	0.3406	0.73	
15+55	0.3462	0.82	
16+ 0	0.3531	0.99	
16+ 5	0.3634	1.50	
16+10	0.3800	2.41	
16+15	0.4019	3.19	
16+20	0.4246	3.28	
16+25	0.4418	2.50	
16+30	0.4542	1.81	
16+35	0.4641	1.43	
16+40	0.4727	1.25	
16+45	0.4804	1.12	
16+50	0.4874	1.02	
16+55	0.4937	0.92	
17+ 0	0.4996	0.85	
17+ 5	0.5050	0.79	
17+10	0.5101	0.73	
17+15	0.5147	0.68	
17+20	0.5192	0.64	
17+25	0.5234	0.61	
17+30	0.5274	0.59	
17+35	0.5312	0.55	
17+40	0.5348	0.52	
17+45	0.5382	0.50	

17+50	0.5415	0.48	Q			V	
17+55	0.5447	0.46	Q			V	
18+ 0	0.5477	0.44	Q			V	
18+ 5	0.5506	0.42	Q			V	
18+10	0.5534	0.41	Q			V	
18+15	0.5561	0.39	Q			V	
18+20	0.5586	0.36	Q			V	
18+25	0.5609	0.34	Q			V	
18+30	0.5632	0.33	Q			V	
18+35	0.5654	0.32	Q			V	
18+40	0.5676	0.31	Q			V	
18+45	0.5697	0.31	Q			V	
18+50	0.5718	0.30	Q			V	
18+55	0.5738	0.30	Q			V	
19+ 0	0.5758	0.29	Q			V	
19+ 5	0.5778	0.28	Q			V	
19+10	0.5797	0.28	Q			V	
19+15	0.5816	0.28	Q			V	
19+20	0.5835	0.27	Q			V	
19+25	0.5853	0.27	Q			V	
19+30	0.5871	0.26	Q			V	
19+35	0.5889	0.26	Q			V	
19+40	0.5907	0.26	Q			V	
19+45	0.5924	0.25	Q			V	
19+50	0.5941	0.25	Q			V	
19+55	0.5958	0.25	Q			V	
20+ 0	0.5975	0.24	Q			V	
20+ 5	0.5991	0.24	Q			V	
20+10	0.6008	0.24	Q			V	
20+15	0.6024	0.23	Q			V	
20+20	0.6040	0.23	Q			V	
20+25	0.6055	0.23	Q			V	
20+30	0.6071	0.23	Q			V	
20+35	0.6086	0.22	Q			V	
20+40	0.6102	0.22	Q			V	
20+45	0.6117	0.22	Q			V	
20+50	0.6132	0.22	Q			V	
20+55	0.6147	0.22	Q			V	
21+ 0	0.6161	0.21	Q			V	
21+ 5	0.6176	0.21	Q			V	
21+10	0.6190	0.21	Q			V	
21+15	0.6205	0.21	Q			V	
21+20	0.6219	0.21	Q			V	
21+25	0.6233	0.20	Q			V	
21+30	0.6247	0.20	Q			V	
21+35	0.6260	0.20	Q			V	
21+40	0.6274	0.20	Q			V	
21+45	0.6288	0.20	Q			V	
21+50	0.6301	0.20	Q			V	
21+55	0.6315	0.19	Q			V	
22+ 0	0.6328	0.19	Q			V	
22+ 5	0.6341	0.19	Q			V	
22+10	0.6354	0.19	Q			V	
22+15	0.6367	0.19	Q			V	
22+20	0.6380	0.19	Q			V	
22+25	0.6393	0.19	Q			V	
22+30	0.6405	0.18	Q			V	
22+35	0.6418	0.18	Q			V	
22+40	0.6431	0.18	Q			V	

22+45	0.6443	0.18	Q	|	|	|	V |
22+50	0.6455	0.18	Q	|	|	|	V |
22+55	0.6468	0.18	Q	|	|	|	V |
23+ 0	0.6480	0.18	Q	|	|	|	V |
23+ 5	0.6492	0.18	Q	|	|	|	V |
23+10	0.6504	0.17	Q	|	|	|	V |
23+15	0.6516	0.17	Q	|	|	|	V|
23+20	0.6528	0.17	Q	|	|	|	V|
23+25	0.6540	0.17	Q	|	|	|	V|
23+30	0.6551	0.17	Q	|	|	|	V|
23+35	0.6563	0.17	Q	|	|	|	V|
23+40	0.6575	0.17	Q	|	|	|	V|
23+45	0.6586	0.17	Q	|	|	|	V|
23+50	0.6598	0.17	Q	|	|	|	V|
23+55	0.6609	0.17	Q	|	|	|	V|
24+ 0	0.6620	0.16	Q	|	|	|	V|
24+ 5	0.6631	0.16	Q	|	|	|	V|
24+10	0.6641	0.14	Q	|	|	|	V|
24+15	0.6649	0.11	Q	|	|	|	V|
24+20	0.6655	0.08	Q	|	|	|	V|
24+25	0.6659	0.06	Q	|	|	|	V|
24+30	0.6662	0.05	Q	|	|	|	V|
24+35	0.6665	0.04	Q	|	|	|	V|
24+40	0.6667	0.03	Q	|	|	|	V|
24+45	0.6669	0.03	Q	|	|	|	V|
24+50	0.6671	0.02	Q	|	|	|	V|
24+55	0.6672	0.02	Q	|	|	|	V|
25+ 0	0.6673	0.02	Q	|	|	|	V|
25+ 5	0.6674	0.01	Q	|	|	|	V|
25+10	0.6675	0.01	Q	|	|	|	V|
25+15	0.6676	0.01	Q	|	|	|	V|
25+20	0.6676	0.01	Q	|	|	|	V|
25+25	0.6677	0.01	Q	|	|	|	V|
25+30	0.6677	0.01	Q	|	|	|	V|
25+35	0.6678	0.01	Q	|	|	|	V|
25+40	0.6678	0.00	Q	|	|	|	V|
25+45	0.6678	0.00	Q	|	|	|	V|
25+50	0.6679	0.00	Q	|	|	|	V|
25+55	0.6679	0.00	Q	|	|	|	V|
26+ 0	0.6679	0.00	Q	|	|	|	V|
26+ 5	0.6679	0.00	Q	|	|	|	V|
26+10	0.6679	0.00	Q	|	|	|	V|
26+15	0.6679	0.00	Q	|	|	|	V

APPENDIX B.3: UNIT HYDROGRAPH ANALYSIS, AREAS "B"

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA B1
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
4.26	1	1.20
Rainfall data for year 100		
4.26	6	3.00
Rainfall data for year 100		
4.26	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	4.26	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
4.26	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.352 (hours)
++
Watershed area = 4.26(Ac.)
Catchment Lag time = 0.282 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 29.5928
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 4.26(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 51.52 (CFS))		
1	2.847	1.467
2	13.216	5.342
3	31.390	9.363
4	51.449	10.334
5	64.493	6.720
6	72.033	3.884
7	76.844	2.479
8	80.587	1.928
9	83.600	1.552
10	86.121	1.299
11	88.140	1.040
12	89.912	0.913
13	91.376	0.754
14	92.637	0.649

15	93.631	0.512
16	94.559	0.478
17	95.447	0.457
18	96.193	0.384
19	96.834	0.330
20	97.387	0.285
21	97.889	0.258
22	98.307	0.216
23	98.658	0.181
24	98.954	0.152
25	99.250	0.152
26	99.546	0.152
27	99.842	0.152
28	100.000	0.081

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7731	0.0840
5	0.8453	0.0722
6	0.9092	0.0639
7	0.9671	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1154	0.0460
11	1.1587	0.0433
12	1.1998	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3448	0.0466
16	1.3900	0.0451
17	1.4338	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7104	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0130	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279

43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4120	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176

102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140

161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120

220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106

279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067

45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086

104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149

163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0208
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0404	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0639	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4440	0.0364	0.4077
194	0.0840	0.0364	0.0476
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0175
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108

222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062

281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 6.26(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0003	0.04	Q				
0+15	0.0010	0.10	Q				
0+20	0.0021	0.16	Q				
0+25	0.0034	0.20	Q				
0+30	0.0049	0.22	Q				
0+35	0.0065	0.23	Q				
0+40	0.0082	0.25	Q				
0+45	0.0100	0.26	VQ				
0+50	0.0118	0.26	VQ				
0+55	0.0137	0.27	VQ				
1+ 0	0.0156	0.28	VQ				
1+ 5	0.0175	0.28	VQ				
1+10	0.0195	0.29	VQ				
1+15	0.0215	0.29	VQ				
1+20	0.0235	0.29	VQ				
1+25	0.0256	0.30	VQ				
1+30	0.0277	0.30	VQ				
1+35	0.0298	0.30	VQ				
1+40	0.0319	0.31	|Q				
1+45	0.0340	0.31	|Q				
1+50	0.0361	0.31	|Q				
1+55	0.0383	0.31	|Q				
2+ 0	0.0405	0.31	|Q				
2+ 5	0.0426	0.32	|Q				
2+10	0.0448	0.32	|Q				
2+15	0.0470	0.32	|Q				
2+20	0.0492	0.32	|Q				
2+25	0.0515	0.32	|Q				
2+30	0.0537	0.32	|Q				
2+35	0.0559	0.32	|Q				
2+40	0.0582	0.33	|Q				
2+45	0.0604	0.33	|Q				
2+50	0.0627	0.33	|Q				
2+55	0.0649	0.33	|QV				
3+ 0	0.0672	0.33	|QV				

3+ 5	0.0695	0.33	QV			
3+10	0.0718	0.33	QV			
3+15	0.0740	0.33	QV			
3+20	0.0763	0.33	QV			
3+25	0.0786	0.33	QV			
3+30	0.0810	0.34	QV			
3+35	0.0833	0.34	QV			
3+40	0.0856	0.34	QV			
3+45	0.0879	0.34	QV			
3+50	0.0903	0.34	QV			
3+55	0.0926	0.34	QV			
4+ 0	0.0950	0.34	QV			
4+ 5	0.0974	0.34	Q V			
4+10	0.0997	0.34	Q V			
4+15	0.1021	0.35	Q V			
4+20	0.1045	0.35	Q V			
4+25	0.1069	0.35	Q V			
4+30	0.1093	0.35	Q V			
4+35	0.1117	0.35	Q V			
4+40	0.1141	0.35	Q V			
4+45	0.1166	0.35	Q V			
4+50	0.1190	0.35	Q V			
4+55	0.1215	0.36	Q V			
5+ 0	0.1239	0.36	Q V			
5+ 5	0.1264	0.36	Q V			
5+10	0.1289	0.36	Q V			
5+15	0.1313	0.36	Q V			
5+20	0.1338	0.36	Q V			
5+25	0.1363	0.36	Q V			
5+30	0.1389	0.36	Q V			
5+35	0.1414	0.37	Q V			
5+40	0.1439	0.37	Q V			
5+45	0.1464	0.37	Q V			
5+50	0.1490	0.37	Q V			
5+55	0.1516	0.37	Q V			
6+ 0	0.1541	0.37	Q V			
6+ 5	0.1567	0.38	Q V			
6+10	0.1593	0.38	Q V			
6+15	0.1619	0.38	Q V			
6+20	0.1645	0.38	Q V			
6+25	0.1672	0.38	Q V			
6+30	0.1698	0.38	Q V			
6+35	0.1724	0.38	Q V			
6+40	0.1751	0.39	Q V			
6+45	0.1778	0.39	Q V			
6+50	0.1804	0.39	Q V			
6+55	0.1831	0.39	Q V			
7+ 0	0.1858	0.39	Q V			
7+ 5	0.1886	0.39	Q V			
7+10	0.1913	0.40	Q V			
7+15	0.1940	0.40	Q V			
7+20	0.1968	0.40	Q V			
7+25	0.1996	0.40	Q V			
7+30	0.2023	0.40	Q V			
7+35	0.2051	0.41	Q V			
7+40	0.2079	0.41	Q V			
7+45	0.2107	0.41	Q V			
7+50	0.2136	0.41	Q V			
7+55	0.2164	0.41	Q V			

8+ 0	0.2193	0.42	Q V	|	|	|	|
8+ 5	0.2222	0.42	Q V	|	|	|	|
8+10	0.2250	0.42	Q V	|	|	|	|
8+15	0.2280	0.42	Q V	|	|	|	|
8+20	0.2309	0.42	Q V	|	|	|	|
8+25	0.2338	0.43	Q V	|	|	|	|
8+30	0.2368	0.43	Q V	|	|	|	|
8+35	0.2397	0.43	Q V	|	|	|	|
8+40	0.2427	0.43	Q V	|	|	|	|
8+45	0.2457	0.43	Q V	|	|	|	|
8+50	0.2487	0.44	Q V	|	|	|	|
8+55	0.2517	0.44	Q V	|	|	|	|
9+ 0	0.2548	0.44	Q V	|	|	|	|
9+ 5	0.2578	0.44	Q V	|	|	|	|
9+10	0.2609	0.45	Q V	|	|	|	|
9+15	0.2640	0.45	Q V	|	|	|	|
9+20	0.2671	0.45	Q V	|	|	|	|
9+25	0.2703	0.46	Q V	|	|	|	|
9+30	0.2734	0.46	Q V	|	|	|	|
9+35	0.2766	0.46	Q V	|	|	|	|
9+40	0.2798	0.46	Q V	|	|	|	|
9+45	0.2830	0.47	Q V	|	|	|	|
9+50	0.2862	0.47	Q V	|	|	|	|
9+55	0.2895	0.47	Q V	|	|	|	|
10+ 0	0.2928	0.48	Q V	|	|	|	|
10+ 5	0.2960	0.48	Q V	|	|	|	|
10+10	0.2994	0.48	Q V	|	|	|	|
10+15	0.3027	0.48	Q V	|	|	|	|
10+20	0.3061	0.49	Q V	|	|	|	|
10+25	0.3094	0.49	Q V	|	|	|	|
10+30	0.3129	0.49	Q V	|	|	|	|
10+35	0.3163	0.50	Q V	|	|	|	|
10+40	0.3197	0.50	Q V	|	|	|	|
10+45	0.3232	0.51	Q V	|	|	|	|
10+50	0.3267	0.51	Q V	|	|	|	|
10+55	0.3303	0.51	Q V	|	|	|	|
11+ 0	0.3338	0.52	Q V	|	|	|	|
11+ 5	0.3374	0.52	Q V	|	|	|	|
11+10	0.3410	0.52	Q V	|	|	|	|
11+15	0.3447	0.53	Q V	|	|	|	|
11+20	0.3483	0.53	Q V	|	|	|	|
11+25	0.3520	0.54	Q V	|	|	|	|
11+30	0.3558	0.54	Q V	|	|	|	|
11+35	0.3595	0.55	Q V	|	|	|	|
11+40	0.3633	0.55	Q V	|	|	|	|
11+45	0.3672	0.56	Q V	|	|	|	|
11+50	0.3710	0.56	Q V	|	|	|	|
11+55	0.3749	0.57	Q V	|	|	|	|
12+ 0	0.3789	0.57	Q V	|	|	|	|
12+ 5	0.3829	0.58	Q V	|	|	|	|
12+10	0.3869	0.58	Q V	|	|	|	|
12+15	0.3910	0.59	Q V	|	|	|	|
12+20	0.3951	0.60	Q V	|	|	|	|
12+25	0.3993	0.61	Q V	|	|	|	|
12+30	0.4036	0.62	Q V	|	|	|	|
12+35	0.4079	0.62	Q V	|	|	|	|
12+40	0.4122	0.63	Q V	|	|	|	|
12+45	0.4166	0.64	Q V	|	|	|	|
12+50	0.4211	0.65	Q V	|	|	|	|

12+55	0.4256	0.65	Q	V			
13+ 0	0.4301	0.66	Q	V			
13+ 5	0.4348	0.67	Q	V			
13+10	0.4394	0.68	Q	V			
13+15	0.4442	0.69	Q	V			
13+20	0.4490	0.70	Q	V			
13+25	0.4538	0.71	Q	V			
13+30	0.4588	0.72	Q	V			
13+35	0.4638	0.73	Q	V			
13+40	0.4688	0.74	Q	V			
13+45	0.4740	0.75	Q	V			
13+50	0.4792	0.76	Q	V			
13+55	0.4845	0.77	Q	V			
14+ 0	0.4899	0.78	Q	V			
14+ 5	0.4954	0.80	Q	V			
14+10	0.5010	0.81	Q	V			
14+15	0.5067	0.83	Q	V			
14+20	0.5126	0.84	Q	V			
14+25	0.5185	0.86	Q	V			
14+30	0.5245	0.88	Q	V			
14+35	0.5307	0.90	Q	V			
14+40	0.5371	0.92	Q	V			
14+45	0.5436	0.94	Q	V			
14+50	0.5502	0.97	Q	V			
14+55	0.5570	0.99	Q	V			
15+ 0	0.5641	1.02	Q	V			
15+ 5	0.5713	1.05	Q	V			
15+10	0.5788	1.09	Q	V			
15+15	0.5866	1.13	Q	V			
15+20	0.5946	1.17	Q	V			
15+25	0.6029	1.21	Q	V			
15+30	0.6114	1.23	Q	V			
15+35	0.6199	1.24	Q	V			
15+40	0.6285	1.25	Q	V			
15+45	0.6375	1.30	Q	V			
15+50	0.6472	1.40	Q	V			
15+55	0.6580	1.57	Q	V			
16+ 0	0.6711	1.91	Q	V			
16+ 5	0.6911	2.91	Q	V			
16+10	0.7235	4.70	Q	V			
16+15	0.7662	6.20	Q				
16+20	0.8093	6.26	Q				
16+25	0.8412	4.64	Q	V			
16+30	0.8643	3.35	Q	V			
16+35	0.8826	2.67	Q	V			
16+40	0.8988	2.35	Q	V			
16+45	0.9133	2.10	Q	V			
16+50	0.9265	1.91	Q	V			
16+55	0.9384	1.73	Q	V			
17+ 0	0.9494	1.60	Q	V			
17+ 5	0.9596	1.48	Q	V			
17+10	0.9690	1.37	Q	V			
17+15	0.9778	1.27	Q	V			
17+20	0.9862	1.21	Q	V			
17+25	0.9942	1.16	Q	V			
17+30	1.0017	1.09	Q	V			
17+35	1.0088	1.03	Q	V			
17+40	1.0156	0.98	Q	V			
17+45	1.0220	0.94	Q	V			

17+50	1.0282	0.89	Q			V	
17+55	1.0341	0.86	Q			V	
18+ 0	1.0397	0.82	Q			V	
18+ 5	1.0452	0.80	Q			V	
18+10	1.0506	0.77	Q			V	
18+15	1.0557	0.74	Q			V	
18+20	1.0605	0.69	Q			V	
18+25	1.0649	0.64	Q			V	
18+30	1.0692	0.62	Q			V	
18+35	1.0734	0.61	Q			V	
18+40	1.0775	0.60	Q			V	
18+45	1.0815	0.58	Q			V	
18+50	1.0854	0.57	Q			V	
18+55	1.0893	0.56	Q			V	
19+ 0	1.0931	0.55	Q			V	
19+ 5	1.0968	0.54	Q			V	
19+10	1.1004	0.53	Q			V	
19+15	1.1040	0.52	Q			V	
19+20	1.1076	0.51	Q			V	
19+25	1.1111	0.51	Q			V	
19+30	1.1145	0.50	Q			V	
19+35	1.1179	0.49	Q			V	
19+40	1.1212	0.48	Q			V	
19+45	1.1245	0.48	Q			V	
19+50	1.1278	0.47	Q			V	
19+55	1.1310	0.47	Q			V	
20+ 0	1.1341	0.46	Q			V	
20+ 5	1.1372	0.45	Q			V	
20+10	1.1403	0.45	Q			V	
20+15	1.1434	0.44	Q			V	
20+20	1.1464	0.44	Q			V	
20+25	1.1494	0.43	Q			V	
20+30	1.1524	0.43	Q			V	
20+35	1.1553	0.42	Q			V	
20+40	1.1582	0.42	Q			V	
20+45	1.1610	0.42	Q			V	
20+50	1.1639	0.41	Q			V	
20+55	1.1667	0.41	Q			V	
21+ 0	1.1695	0.40	Q			V	
21+ 5	1.1722	0.40	Q			V	
21+10	1.1750	0.40	Q			V	
21+15	1.1777	0.39	Q			V	
21+20	1.1804	0.39	Q			V	
21+25	1.1830	0.39	Q			V	
21+30	1.1857	0.38	Q			V	
21+35	1.1883	0.38	Q			V	
21+40	1.1909	0.38	Q			V	
21+45	1.1935	0.37	Q			V	
21+50	1.1960	0.37	Q			V	
21+55	1.1985	0.37	Q			V	
22+ 0	1.2011	0.37	Q			V	
22+ 5	1.2036	0.36	Q			V	
22+10	1.2060	0.36	Q			V	
22+15	1.2085	0.36	Q			V	
22+20	1.2109	0.35	Q			V	
22+25	1.2134	0.35	Q			V	
22+30	1.2158	0.35	Q			V	
22+35	1.2182	0.35	Q			V	
22+40	1.2205	0.34	Q			V	

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   22+45       1.2229      0.34  |Q          |           |           |         V |
   22+50       1.2252      0.34  |Q          |           |           |         V |
   22+55       1.2276      0.34  |Q          |           |           |         V |
   23+ 0       1.2299      0.34  |Q          |           |           |         V |
   23+ 5       1.2322      0.33  |Q          |           |           |         V |
   23+10       1.2345      0.33  |Q          |           |           |         V |
   23+15       1.2367      0.33  |Q          |           |           |          V|
   23+20       1.2390      0.33  |Q          |           |           |          V|
   23+25       1.2412      0.33  |Q          |           |           |          V|
   23+30       1.2434      0.32  |Q          |           |           |          V|
   23+35       1.2457      0.32  |Q          |           |           |          V|
   23+40       1.2479      0.32  |Q          |           |           |          V|
   23+45       1.2501      0.32  |Q          |           |           |          V|
   23+50       1.2522      0.32  |Q          |           |           |          V|
   23+55       1.2544      0.31  |Q          |           |           |          V|
   24+ 0       1.2565      0.31  |Q          |           |           |          V|
   24+ 5       1.2586      0.30  |Q          |           |           |          V|
   24+10       1.2605      0.27  |Q          |           |           |          V|
   24+15       1.2619      0.21  Q           |           |           |          V|
   24+20       1.2630      0.15  Q           |           |           |          V|
   24+25       1.2638      0.11  Q           |           |           |          V|
   24+30       1.2644      0.09  Q           |           |           |          V|
   24+35       1.2649      0.07  Q           |           |           |          V|
   24+40       1.2653      0.06  Q           |           |           |          V|
   24+45       1.2656      0.05  Q           |           |           |          V|
   24+50       1.2659      0.04  Q           |           |           |          V|
   24+55       1.2662      0.04  Q           |           |           |          V|
   25+ 0       1.2664      0.03  Q           |           |           |          V|
   25+ 5       1.2666      0.03  Q           |           |           |          V|
   25+10       1.2667      0.02  Q           |           |           |          V|
   25+15       1.2669      0.02  Q           |           |           |          V|
   25+20       1.2670      0.02  Q           |           |           |          V|
   25+25       1.2671      0.01  Q           |           |           |          V|
   25+30       1.2672      0.01  Q           |           |           |          V|
   25+35       1.2672      0.01  Q           |           |           |          V|
   25+40       1.2673      0.01  Q           |           |           |          V|
   25+45       1.2673      0.01  Q           |           |           |          V|
   25+50       1.2674      0.01  Q           |           |           |          V|
   25+55       1.2674      0.00  Q           |           |           |          V|
   26+ 0       1.2674      0.00  Q           |           |           |          V|
   26+ 5       1.2674      0.00  Q           |           |           |          V|
   26+10       1.2674      0.00  Q           |           |           |          V|
   26+15       1.2675      0.00  Q           |           |           |          V|
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA B2
100-YEAR 24 HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
1.61	1	1.20
Rainfall data for year 100		
1.61	6	3.00
Rainfall data for year 100		
1.61	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	1.61	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
1.61	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.255 (hours)
++
Watershed area = 1.61(Ac.)
Catchment Lag time = 0.204 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 40.8497
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 1.61(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 19.47 (CFS))		
1	4.496	0.875
2	23.057	3.614
3	50.245	5.294
4	67.271	3.315
5	75.562	1.614
6	80.862	1.032
7	84.839	0.774
8	87.853	0.587
9	90.272	0.471
10	92.165	0.368
11	93.625	0.284
12	94.893	0.247
13	96.024	0.220
14	96.909	0.172

15	97.654	0.145
16	98.264	0.119
17	98.740	0.093
18	99.149	0.080
19	99.557	0.080
20	100.000	0.040

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5860	0.1419
3	0.6892	0.1032
4	0.7732	0.0840
5	0.8454	0.0722
6	0.9094	0.0640
7	0.9672	0.0578
8	1.0203	0.0531
9	1.0695	0.0492
10	1.1155	0.0460
11	1.1589	0.0433
12	1.1999	0.0410
13	1.2501	0.0501
14	1.2983	0.0483
15	1.3450	0.0466
16	1.3901	0.0451
17	1.4339	0.0438
18	1.4764	0.0425
19	1.5178	0.0414
20	1.5582	0.0403
21	1.5975	0.0394
22	1.6360	0.0385
23	1.6736	0.0376
24	1.7105	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8167	0.0347
28	1.8508	0.0341
29	1.8843	0.0335
30	1.9172	0.0330
31	1.9497	0.0324
32	1.9816	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1926	0.0289
40	2.2211	0.0286
41	2.2494	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256

51	2.5150	0.0253
52	2.5401	0.0251
53	2.5649	0.0249
54	2.5896	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6622	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8020	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9136	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1623	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2404	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5532	0.0176
102	3.5707	0.0175
103	3.5882	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170

110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8406	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0774	0.0154
134	4.0927	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2131	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3157	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5139	0.0139
164	4.5277	0.0138
165	4.5415	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5826	0.0137

169	4.5962	0.0136
170	4.6098	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6503	0.0135
174	4.6637	0.0134
175	4.6771	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7566	0.0132
182	4.7697	0.0131
183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8348	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1235	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2082	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3151	0.0118
227	5.3268	0.0117

228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3852	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4199	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5453	0.0113
247	5.5565	0.0113
248	5.5678	0.0112
249	5.5790	0.0112
250	5.5902	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7337	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8737	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9372	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9687	0.0105
286	5.9791	0.0105

287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068

53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090

112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172

171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0207
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0403	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0640	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4441	0.0364	0.4077
194	0.0840	0.0364	0.0477
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0174
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096

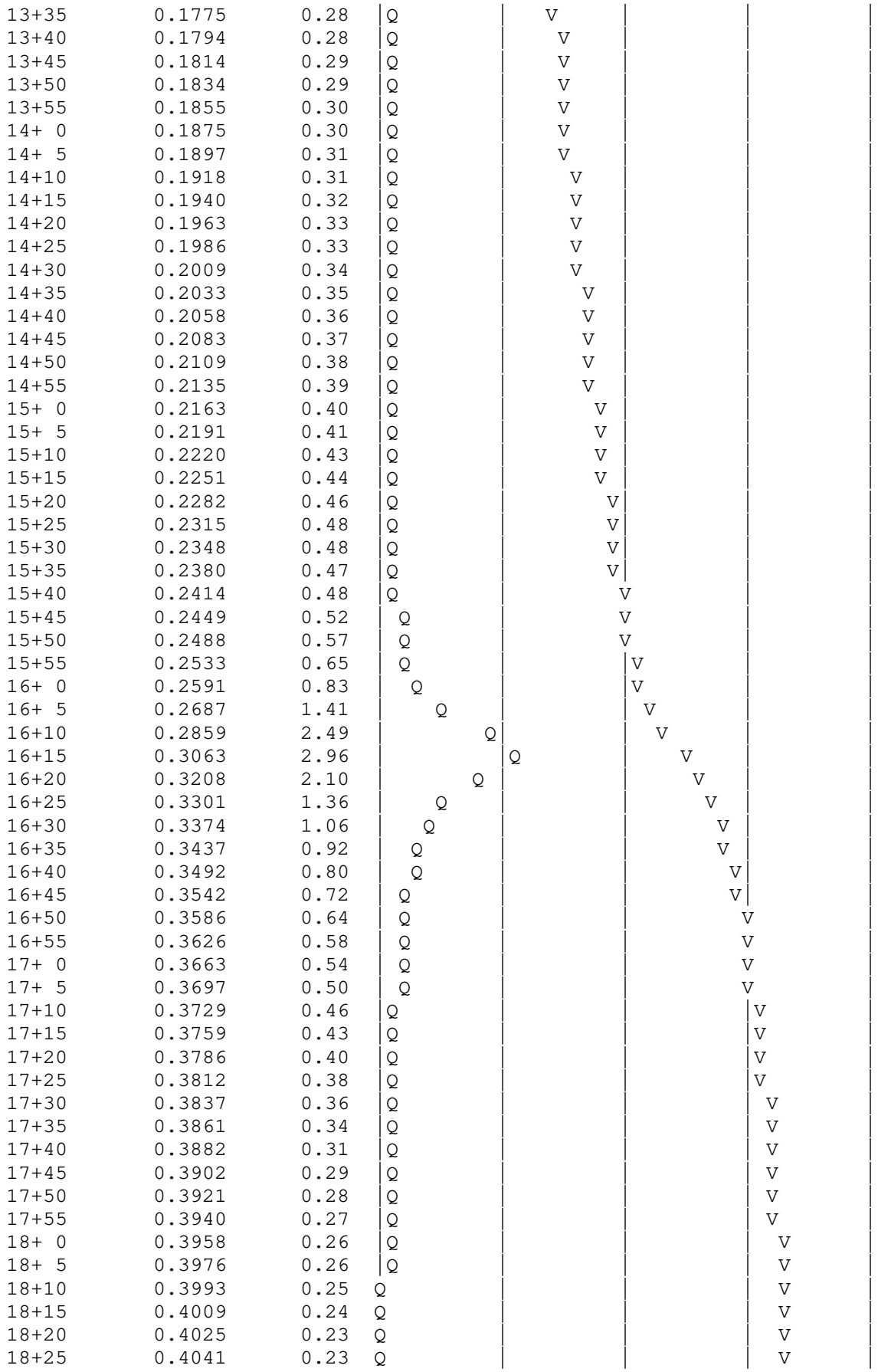
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

```
    ------------------------------------------------------------------------
    ------------------------------------------------------------------------
    Total soil rain loss =      2.43(In)
    Total effective rainfall =      3.57(In)
    Peak flow rate in flood hydrograph =      2.96(CFS)
    ------------------------------------------------------------------------
    ++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
                        24 - H O U R    S T O R M
                    R u n o f f      H y d r o g r a p h
    ------------------------------------------------------------------------
                Hydrograph in   5   Minute intervals ((CFS))

    ------------------------------------------------------------------------
Time(h+m) Volume Ac.Ft   Q(CFS)  0        2.5       5.0       7.5      10.0
------------------------------------------------------------------------
  0+ 5       0.0000      0.01  Q          |         |         |         |
  0+10       0.0002      0.03  Q          |         |         |         |
  0+15       0.0006      0.06  Q          |         |         |         |
  0+20       0.0011      0.08  Q          |         |         |         |
  0+25       0.0017      0.09  Q          |         |         |         |
  0+30       0.0024      0.09  Q          |         |         |         |
  0+35       0.0031      0.10  Q          |         |         |         |
  0+40       0.0038      0.10  Q          |         |         |         |
  0+45       0.0045      0.10  Q          |         |         |         |
  0+50       0.0052      0.11  Q          |         |         |         |
  0+55       0.0060      0.11  Q          |         |         |         |
  1+ 0       0.0067      0.11  Q          |         |         |         |
  1+ 5       0.0075      0.11  Q          |         |         |         |
  1+10       0.0083      0.11  Q          |         |         |         |
  1+15       0.0091      0.11  Q          |         |         |         |
  1+20       0.0099      0.12  Q          |         |         |         |
  1+25       0.0107      0.12  Q          |         |         |         |
  1+30       0.0115      0.12  Q          |         |         |         |
  1+35       0.0123      0.12  QV         |         |         |         |
  1+40       0.0131      0.12  QV         |         |         |         |
  1+45       0.0139      0.12  QV         |         |         |         |
  1+50       0.0148      0.12  QV         |         |         |         |
  1+55       0.0156      0.12  QV         |         |         |         |
  2+ 0       0.0164      0.12  QV         |         |         |         |
  2+ 5       0.0173      0.12  QV         |         |         |         |
  2+10       0.0181      0.12  QV         |         |         |         |
  2+15       0.0189      0.12  QV         |         |         |         |
  2+20       0.0198      0.12  QV         |         |         |         |
  2+25       0.0206      0.12  QV         |         |         |         |
  2+30       0.0214      0.12  QV         |         |         |         |
  2+35       0.0223      0.12  QV         |         |         |         |
  2+40       0.0231      0.12  QV         |         |         |         |
  2+45       0.0240      0.12  Q V        |         |         |         |
  2+50       0.0248      0.12  Q V        |         |         |         |
  2+55       0.0257      0.12  Q V        |         |         |         |
  3+ 0       0.0266      0.12  Q V        |         |         |         |
  3+ 5       0.0274      0.13  Q V        |         |         |         |
  3+10       0.0283      0.13  Q V        |         |         |         |
  3+15       0.0292      0.13  Q V        |         |         |         |
  3+20       0.0300      0.13  Q V        |         |         |         |
  3+25       0.0309      0.13  Q V        |         |         |         |
  3+30       0.0318      0.13  Q V        |         |         |         |
  3+35       0.0326      0.13  Q V        |         |         |         |
  3+40       0.0335      0.13  Q V        |         |         |         |
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3+45	0.0344	0.13	Q V	|	|	|	|
3+50	0.0353	0.13	Q V	|	|	|	|
3+55	0.0362	0.13	Q V	|	|	|	|
4+ 0	0.0371	0.13	Q V	|	|	|	|
4+ 5	0.0380	0.13	Q V	|	|	|	|
4+10	0.0389	0.13	Q V	|	|	|	|
4+15	0.0398	0.13	Q V	|	|	|	|
4+20	0.0407	0.13	Q V	|	|	|	|
4+25	0.0416	0.13	Q V	|	|	|	|
4+30	0.0425	0.13	Q V	|	|	|	|
4+35	0.0434	0.13	Q V	|	|	|	|
4+40	0.0443	0.13	Q V	|	|	|	|
4+45	0.0453	0.13	Q V	|	|	|	|
4+50	0.0462	0.13	Q V	|	|	|	|
4+55	0.0471	0.13	Q V	|	|	|	|
5+ 0	0.0480	0.14	Q V	|	|	|	|
5+ 5	0.0490	0.14	Q V	|	|	|	|
5+10	0.0499	0.14	Q V	|	|	|	|
5+15	0.0509	0.14	Q V	|	|	|	|
5+20	0.0518	0.14	Q V	|	|	|	|
5+25	0.0527	0.14	Q V	|	|	|	|
5+30	0.0537	0.14	Q V	|	|	|	|
5+35	0.0547	0.14	Q V	|	|	|	|
5+40	0.0556	0.14	Q V	|	|	|	|
5+45	0.0566	0.14	Q V	|	|	|	|
5+50	0.0575	0.14	Q V	|	|	|	|
5+55	0.0585	0.14	Q V	|	|	|	|
6+ 0	0.0595	0.14	Q V	|	|	|	|
6+ 5	0.0605	0.14	Q V	|	|	|	|
6+10	0.0615	0.14	Q V	|	|	|	|
6+15	0.0624	0.14	Q V	|	|	|	|
6+20	0.0634	0.14	Q V	|	|	|	|
6+25	0.0644	0.14	Q V	|	|	|	|
6+30	0.0654	0.15	Q V	|	|	|	|
6+35	0.0664	0.15	Q V	|	|	|	|
6+40	0.0674	0.15	Q V	|	|	|	|
6+45	0.0685	0.15	Q V	|	|	|	|
6+50	0.0695	0.15	Q V	|	|	|	|
6+55	0.0705	0.15	Q V	|	|	|	|
7+ 0	0.0715	0.15	Q V	|	|	|	|
7+ 5	0.0726	0.15	Q V	|	|	|	|
7+10	0.0736	0.15	Q V	|	|	|	|
7+15	0.0746	0.15	Q V	|	|	|	|
7+20	0.0757	0.15	Q V	|	|	|	|
7+25	0.0767	0.15	Q V	|	|	|	|
7+30	0.0778	0.15	Q V	|	|	|	|
7+35	0.0788	0.15	Q V	|	|	|	|
7+40	0.0799	0.15	Q V	|	|	|	|
7+45	0.0810	0.16	Q V	|	|	|	|
7+50	0.0820	0.16	Q V	|	|	|	|
7+55	0.0831	0.16	Q V	|	|	|	|
8+ 0	0.0842	0.16	Q V	|	|	|	|
8+ 5	0.0853	0.16	Q V	|	|	|	|
8+10	0.0864	0.16	Q V	|	|	|	|
8+15	0.0875	0.16	Q V	|	|	|	|
8+20	0.0886	0.16	Q V	|	|	|	|
8+25	0.0897	0.16	Q V	|	|	|	|
8+30	0.0908	0.16	Q V	|	|	|	|
8+35	0.0920	0.16	Q V	|	|	|	|

8+40	0.0931	0.16	Q	V	|	|	|	|
8+45	0.0942	0.17	Q	V	|	|	|	|
8+50	0.0954	0.17	Q	V	|	|	|	|
8+55	0.0965	0.17	Q	V	|	|	|	|
9+ 0	0.0977	0.17	Q	V	|	|	|	|
9+ 5	0.0989	0.17	Q	V	|	|	|	|
9+10	0.1000	0.17	Q	V	|	|	|	|
9+15	0.1012	0.17	Q	V	|	|	|	|
9+20	0.1024	0.17	Q	V	|	|	|	|
9+25	0.1036	0.17	Q	V	|	|	|	|
9+30	0.1048	0.17	Q	V	|	|	|	|
9+35	0.1060	0.18	Q	V	|	|	|	|
9+40	0.1072	0.18	Q	V	|	|	|	|
9+45	0.1084	0.18	Q	V	|	|	|	|
9+50	0.1096	0.18	Q	V	|	|	|	|
9+55	0.1109	0.18	Q	V	|	|	|	|
10+ 0	0.1121	0.18	Q	V	|	|	|	|
10+ 5	0.1134	0.18	Q	V	|	|	|	|
10+10	0.1146	0.18	Q	V	|	|	|	|
10+15	0.1159	0.18	Q	V	|	|	|	|
10+20	0.1172	0.19	Q	V	|	|	|	|
10+25	0.1185	0.19	Q	V	|	|	|	|
10+30	0.1198	0.19	Q	V	|	|	|	|
10+35	0.1211	0.19	Q	V	|	|	|	|
10+40	0.1224	0.19	Q	V	|	|	|	|
10+45	0.1237	0.19	Q	V	|	|	|	|
10+50	0.1251	0.19	Q	V	|	|	|	|
10+55	0.1264	0.20	Q	V	|	|	|	|
11+ 0	0.1278	0.20	Q	V	|	|	|	|
11+ 5	0.1291	0.20	Q	V	|	|	|	|
11+10	0.1305	0.20	Q	V	|	|	|	|
11+15	0.1319	0.20	Q	|	V	|	|	|
11+20	0.1333	0.20	Q	|	V	|	|	|
11+25	0.1347	0.21	Q	|	V	|	|	|
11+30	0.1361	0.21	Q	|	V	|	|	|
11+35	0.1376	0.21	Q	|	V	|	|	|
11+40	0.1390	0.21	Q	|	V	|	|	|
11+45	0.1405	0.21	Q	|	V	|	|	|
11+50	0.1419	0.21	Q	|	V	|	|	|
11+55	0.1434	0.22	Q	|	V	|	|	|
12+ 0	0.1449	0.22	Q	|	V	|	|	|
12+ 5	0.1465	0.22	Q	|	V	|	|	|
12+10	0.1480	0.22	Q	|	V	|	|	|
12+15	0.1496	0.23	Q	|	V	|	|	|
12+20	0.1512	0.23	Q	|	V	|	|	|
12+25	0.1528	0.23	Q	|	V	|	|	|
12+30	0.1544	0.24	Q	|	V	|	|	|
12+35	0.1560	0.24	Q	|	V	|	|	|
12+40	0.1577	0.24	Q	|	V	|	|	|
12+45	0.1594	0.24	Q	|	V	|	|	|
12+50	0.1611	0.25	Q	|	V	|	|	|
12+55	0.1628	0.25	|	Q	|	V	|	|	|
13+ 0	0.1646	0.25	|	Q	|	V	|	|	|
13+ 5	0.1663	0.26	|	Q	|	V	|	|	|
13+10	0.1681	0.26	|	Q	|	V	|	|	|
13+15	0.1699	0.26	|	Q	|	V	|	|	|
13+20	0.1718	0.27	|	Q	|	V	|	|	|
13+25	0.1737	0.27	|	Q	|	V	|	|	|
13+30	0.1755	0.27	|	Q	|	V	|	|	|


13+35 0.1775 0.28
13+40 0.1794 0.28
13+45 0.1814 0.29
13+50 0.1834 0.29
13+55 0.1855 0.30
14+ 0 0.1875 0.30
14+ 5 0.1897 0.31
14+10 0.1918 0.31
14+15 0.1940 0.32
14+20 0.1963 0.33
14+25 0.1986 0.33
14+30 0.2009 0.34
14+35 0.2033 0.35
14+40 0.2058 0.36
14+45 0.2083 0.37
14+50 0.2109 0.38
14+55 0.2135 0.39
15+ 0 0.2163 0.40
15+ 5 0.2191 0.41
15+10 0.2220 0.43
15+15 0.2251 0.44
15+20 0.2282 0.46
15+25 0.2315 0.48
15+30 0.2348 0.48
15+35 0.2380 0.47
15+40 0.2414 0.48
15+45 0.2449 0.52
15+50 0.2488 0.57
15+55 0.2533 0.65
16+ 0 0.2591 0.83
16+ 5 0.2687 1.41
16+10 0.2859 2.49
16+15 0.3063 2.96
16+20 0.3208 2.10
16+25 0.3301 1.36
16+30 0.3374 1.06
16+35 0.3437 0.92
16+40 0.3492 0.80
16+45 0.3542 0.72
16+50 0.3586 0.64
16+55 0.3626 0.58
17+ 0 0.3663 0.54
17+ 5 0.3697 0.50
17+10 0.3729 0.46
17+15 0.3759 0.43
17+20 0.3786 0.40
17+25 0.3812 0.38
17+30 0.3837 0.36
17+35 0.3861 0.34
17+40 0.3882 0.31
17+45 0.3902 0.29
17+50 0.3921 0.28
17+55 0.3940 0.27
18+ 0 0.3958 0.26
18+ 5 0.3976 0.26
18+10 0.3993 0.25
18+15 0.4009 0.24
18+20 0.4025 0.23
18+25 0.4041 0.23

18+30	0.4057	0.22	Q	|	|	| V	|
18+35	0.4072	0.22	Q	|	|	| V	|
18+40	0.4087	0.22	Q	|	|	| V	|
18+45	0.4101	0.21	Q	|	|	| V	|
18+50	0.4115	0.21	Q	|	|	| V	|
18+55	0.4129	0.20	Q	|	|	| V	|
19+ 0	0.4143	0.20	Q	|	|	| V	|
19+ 5	0.4157	0.20	Q	|	|	| V	|
19+10	0.4170	0.19	Q	|	|	| V	|
19+15	0.4183	0.19	Q	|	|	| V	|
19+20	0.4196	0.19	Q	|	|	| V	|
19+25	0.4209	0.19	Q	|	|	| V	|
19+30	0.4222	0.18	Q	|	|	| V	|
19+35	0.4234	0.18	Q	|	|	| V	|
19+40	0.4246	0.18	Q	|	|	| V	|
19+45	0.4258	0.18	Q	|	|	| V	|
19+50	0.4270	0.17	Q	|	|	| V	|
19+55	0.4282	0.17	Q	|	|	| V	|
20+ 0	0.4294	0.17	Q	|	|	| V	|
20+ 5	0.4305	0.17	Q	|	|	| V	|
20+10	0.4317	0.17	Q	|	|	| V	|
20+15	0.4328	0.16	Q	|	|	| V	|
20+20	0.4339	0.16	Q	|	|	| V	|
20+25	0.4350	0.16	Q	|	|	| V	|
20+30	0.4361	0.16	Q	|	|	| V	|
20+35	0.4372	0.16	Q	|	|	| V	|
20+40	0.4383	0.16	Q	|	|	| V	|
20+45	0.4394	0.15	Q	|	|	| V	|
20+50	0.4404	0.15	Q	|	|	| V	|
20+55	0.4415	0.15	Q	|	|	| V	|
21+ 0	0.4425	0.15	Q	|	|	| V	|
21+ 5	0.4435	0.15	Q	|	|	| V	|
21+10	0.4445	0.15	Q	|	|	| V	|
21+15	0.4455	0.15	Q	|	|	| V	|
21+20	0.4465	0.14	Q	|	|	| V	|
21+25	0.4475	0.14	Q	|	|	| V	|
21+30	0.4485	0.14	Q	|	|	| V	|
21+35	0.4495	0.14	Q	|	|	| V	|
21+40	0.4505	0.14	Q	|	|	| V	|
21+45	0.4514	0.14	Q	|	|	| V	|
21+50	0.4524	0.14	Q	|	|	| V	|
21+55	0.4533	0.14	Q	|	|	| V	|
22+ 0	0.4542	0.14	Q	|	|	| V	|
22+ 5	0.4552	0.14	Q	|	|	| V	|
22+10	0.4561	0.13	Q	|	|	| V	|
22+15	0.4570	0.13	Q	|	|	| V	|
22+20	0.4579	0.13	Q	|	|	| V	|
22+25	0.4588	0.13	Q	|	|	| V	|
22+30	0.4597	0.13	Q	|	|	| V	|
22+35	0.4606	0.13	Q	|	|	| V	|
22+40	0.4615	0.13	Q	|	|	| V	|
22+45	0.4624	0.13	Q	|	|	| V	|
22+50	0.4633	0.13	Q	|	|	| V	|
22+55	0.4641	0.13	Q	|	|	| V	|
23+ 0	0.4650	0.13	Q	|	|	| V	|
23+ 5	0.4658	0.12	Q	|	|	| V	|
23+10	0.4667	0.12	Q	|	|	| V	|
23+15	0.4675	0.12	Q	|	|	| V	|
23+20	0.4684	0.12	Q	|	|	| V	|

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   23+25       0.4692      0.12  Q          |           |           |          V|
   23+30       0.4701      0.12  Q          |           |           |          V|
   23+35       0.4709      0.12  Q          |           |           |          V|
   23+40       0.4717      0.12  Q          |           |           |          V|
   23+45       0.4725      0.12  Q          |           |           |          V|
   23+50       0.4733      0.12  Q          |           |           |          V|
   23+55       0.4741      0.12  Q          |           |           |          V|
   24+ 0       0.4750      0.12  Q          |           |           |          V|
   24+ 5       0.4757      0.11  Q          |           |           |          V|
   24+10       0.4763      0.09  Q          |           |           |          V|
   24+15       0.4767      0.06  Q          |           |           |          V|
   24+20       0.4770      0.04  Q          |           |           |          V|
   24+25       0.4772      0.03  Q          |           |           |          V|
   24+30       0.4773      0.02  Q          |           |           |          V|
   24+35       0.4775      0.02  Q          |           |           |          V|
   24+40       0.4776      0.01  Q          |           |           |          V|
   24+45       0.4776      0.01  Q          |           |           |          V|
   24+50       0.4777      0.01  Q          |           |           |          V|
   24+55       0.4777      0.01  Q          |           |           |          V|
   25+ 0       0.4778      0.01  Q          |           |           |          V|
   25+ 5       0.4778      0.00  Q          |           |           |          V|
   25+10       0.4778      0.00  Q          |           |           |          V|
   25+15       0.4779      0.00  Q          |           |           |          V|
   25+20       0.4779      0.00  Q          |           |           |          V|
   25+25       0.4779      0.00  Q          |           |           |          V|
   25+30       0.4779      0.00  Q          |           |           |          V|
   25+35       0.4779      0.00  Q          |           |           |           V
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA B3
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
5.30	1	1.20
Rainfall data for year 100		
5.30	6	3.00
Rainfall data for year 100		
5.30	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	5.30	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
5.30	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.420 (hours)
++
Watershed area = 5.30(Ac.)
Catchment Lag time = 0.336 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 24.8016
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 5.30(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 64.10 (CFS))		
1	2.279	1.461
2	9.823	4.836
3	23.222	8.588
4	40.500	11.075
5	55.920	9.884
6	65.571	6.186
7	71.760	3.967
8	75.929	2.672
9	79.296	2.158
10	82.060	1.772
11	84.416	1.510
12	86.434	1.294
13	88.100	1.068
14	89.589	0.955

15	90.921	0.854
16	92.015	0.701
17	92.993	0.627
18	93.789	0.510
19	94.564	0.497
20	95.309	0.477
21	95.983	0.432
22	96.531	0.351
23	97.043	0.328
24	97.491	0.287
25	97.905	0.265
26	98.254	0.224
27	98.570	0.203
28	98.820	0.160
29	99.068	0.159
30	99.316	0.159
31	99.564	0.159
32	99.813	0.159
33	100.000	0.120

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6890	0.1032
4	0.7731	0.0840
5	0.8453	0.0722
6	0.9092	0.0639
7	0.9670	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1153	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2498	0.0501
14	1.2981	0.0483
15	1.3448	0.0466
16	1.3899	0.0451
17	1.4337	0.0438
18	1.4762	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8165	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9171	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0129	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297

38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1224	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181

97	3.4820	0.0180
98	3.4999	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7080	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9210	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142

156	4.4158	0.0142
157	4.4300	0.0141
158	4.4440	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7696	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121

215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6678	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107

274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9476	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066

40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083

99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139

158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0208
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0404	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0639	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4440	0.0364	0.4076
194	0.0840	0.0364	0.0476
195	0.0578	0.0252	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0283
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0175
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122

217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063

276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 7.20(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0003	0.04	Q				
0+15	0.0009	0.09	Q				
0+20	0.0020	0.15	Q				
0+25	0.0034	0.21	Q				
0+30	0.0051	0.25	Q				
0+35	0.0070	0.27	VQ				
0+40	0.0090	0.29	VQ				
0+45	0.0111	0.30	VQ				
0+50	0.0132	0.31	VQ				
0+55	0.0154	0.32	VQ				
1+ 0	0.0177	0.33	VQ				
1+ 5	0.0201	0.34	VQ				
1+10	0.0224	0.34	VQ				
1+15	0.0249	0.35	VQ				
1+20	0.0273	0.36	VQ				
1+25	0.0298	0.36	VQ				
1+30	0.0323	0.36	VQ				
1+35	0.0348	0.37	VQ				
1+40	0.0374	0.37	VQ				
1+45	0.0400	0.38	|Q				
1+50	0.0426	0.38	|Q				
1+55	0.0452	0.38	|Q				
2+ 0	0.0479	0.38	|Q				
2+ 5	0.0506	0.39	|Q				
2+10	0.0532	0.39	|Q				
2+15	0.0559	0.39	|Q				
2+20	0.0587	0.39	|Q				
2+25	0.0614	0.40	|Q				
2+30	0.0641	0.40	|Q				
2+35	0.0669	0.40	|Q				

2+40	0.0697	0.40	Q			
2+45	0.0725	0.40	Q			
2+50	0.0753	0.41	Q			
2+55	0.0781	0.41	Q			
3+ 0	0.0809	0.41	QV			
3+ 5	0.0837	0.41	QV			
3+10	0.0865	0.41	QV			
3+15	0.0894	0.41	QV			
3+20	0.0922	0.41	QV			
3+25	0.0951	0.41	QV			
3+30	0.0979	0.42	QV			
3+35	0.1008	0.42	QV			
3+40	0.1037	0.42	QV			
3+45	0.1066	0.42	QV			
3+50	0.1095	0.42	QV			
3+55	0.1124	0.42	QV			
4+ 0	0.1153	0.42	QV			
4+ 5	0.1183	0.43	Q V			
4+10	0.1212	0.43	Q V			
4+15	0.1242	0.43	Q V			
4+20	0.1271	0.43	Q V			
4+25	0.1301	0.43	Q V			
4+30	0.1331	0.43	Q V			
4+35	0.1361	0.43	Q V			
4+40	0.1391	0.44	Q V			
4+45	0.1421	0.44	Q V			
4+50	0.1451	0.44	Q V			
4+55	0.1482	0.44	Q V			
5+ 0	0.1512	0.44	Q V			
5+ 5	0.1543	0.44	Q V			
5+10	0.1573	0.45	Q V			
5+15	0.1604	0.45	Q V			
5+20	0.1635	0.45	Q V			
5+25	0.1666	0.45	Q V			
5+30	0.1697	0.45	Q V			
5+35	0.1729	0.45	Q V			
5+40	0.1760	0.46	Q V			
5+45	0.1791	0.46	Q V			
5+50	0.1823	0.46	Q V			
5+55	0.1855	0.46	Q V			
6+ 0	0.1887	0.46	Q V			
6+ 5	0.1919	0.46	Q V			
6+10	0.1951	0.47	Q V			
6+15	0.1983	0.47	Q V			
6+20	0.2016	0.47	Q V			
6+25	0.2048	0.47	Q V			
6+30	0.2081	0.47	Q V			
6+35	0.2114	0.48	Q V			
6+40	0.2147	0.48	Q V			
6+45	0.2180	0.48	Q V			
6+50	0.2213	0.48	Q V			
6+55	0.2246	0.48	Q V			
7+ 0	0.2280	0.49	Q V			
7+ 5	0.2313	0.49	Q V			
7+10	0.2347	0.49	Q V			
7+15	0.2381	0.49	Q V			
7+20	0.2415	0.50	Q V			
7+25	0.2450	0.50	Q V			
7+30	0.2484	0.50	Q V			

7+35	0.2519	0.50	Q V	|	|	|	|
7+40	0.2553	0.50	Q V	|	|	|	|
7+45	0.2588	0.51	Q V	|	|	|	|
7+50	0.2623	0.51	Q V	|	|	|	|
7+55	0.2659	0.51	Q V	|	|	|	|
8+ 0	0.2694	0.51	Q V	|	|	|	|
8+ 5	0.2730	0.52	Q V	|	|	|	|
8+10	0.2765	0.52	Q V	|	|	|	|
8+15	0.2801	0.52	Q V	|	|	|	|
8+20	0.2837	0.52	Q V	|	|	|	|
8+25	0.2874	0.53	Q V	|	|	|	|
8+30	0.2910	0.53	Q V	|	|	|	|
8+35	0.2947	0.53	Q V	|	|	|	|
8+40	0.2984	0.54	Q V	|	|	|	|
8+45	0.3021	0.54	Q V	|	|	|	|
8+50	0.3058	0.54	Q V	|	|	|	|
8+55	0.3096	0.54	Q V	|	|	|	|
9+ 0	0.3133	0.55	Q V	|	|	|	|
9+ 5	0.3171	0.55	Q V	|	|	|	|
9+10	0.3209	0.55	Q V	|	|	|	|
9+15	0.3248	0.56	Q V	|	|	|	|
9+20	0.3286	0.56	Q V	|	|	|	|
9+25	0.3325	0.56	Q V	|	|	|	|
9+30	0.3364	0.57	Q V	|	|	|	|
9+35	0.3403	0.57	Q V	|	|	|	|
9+40	0.3443	0.57	Q V	|	|	|	|
9+45	0.3483	0.58	Q V	|	|	|	|
9+50	0.3523	0.58	Q V	|	|	|	|
9+55	0.3563	0.58	Q V	|	|	|	|
10+ 0	0.3603	0.59	Q V	|	|	|	|
10+ 5	0.3644	0.59	Q V	|	|	|	|
10+10	0.3685	0.60	Q V	|	|	|	|
10+15	0.3726	0.60	Q V	|	|	|	|
10+20	0.3768	0.60	Q V	|	|	|	|
10+25	0.3810	0.61	Q V	|	|	|	|
10+30	0.3852	0.61	Q V	|	|	|	|
10+35	0.3894	0.62	Q V	|	|	|	|
10+40	0.3937	0.62	Q V	|	|	|	|
10+45	0.3980	0.62	Q V	|	|	|	|
10+50	0.4023	0.63	Q V	|	|	|	|
10+55	0.4067	0.63	Q V	|	|	|	|
11+ 0	0.4111	0.64	Q V	|	|	|	|
11+ 5	0.4155	0.64	Q V	|	|	|	|
11+10	0.4200	0.65	Q V	|	|	|	|
11+15	0.4245	0.65	Q V	|	|	|	|
11+20	0.4290	0.66	Q V	|	|	|	|
11+25	0.4336	0.66	Q V	|	|	|	|
11+30	0.4382	0.67	Q | V	|	|	|	|
11+35	0.4429	0.68	Q | V	|	|	|	|
11+40	0.4476	0.68	Q | V	|	|	|	|
11+45	0.4523	0.69	Q | V	|	|	|	|
11+50	0.4571	0.69	Q | V	|	|	|	|
11+55	0.4619	0.70	Q | V	|	|	|	|
12+ 0	0.4668	0.71	Q | V	|	|	|	|
12+ 5	0.4717	0.71	Q | V	|	|	|	|
12+10	0.4766	0.72	Q | V	|	|	|	|
12+15	0.4817	0.73	Q | V	|	|	|	|
12+20	0.4868	0.74	Q | V	|	|	|	|
12+25	0.4919	0.75	| Q | V	|	|	|	|

12+30	0.4972	0.76	Q	V			
12+35	0.5025	0.77	Q	V			
12+40	0.5078	0.78	Q	V			
12+45	0.5132	0.79	Q	V			
12+50	0.5187	0.80	Q	V			
12+55	0.5243	0.81	Q	V			
13+ 0	0.5299	0.81	Q	V			
13+ 5	0.5356	0.82	Q	V			
13+10	0.5413	0.84	Q	V			
13+15	0.5471	0.85	Q	V			
13+20	0.5530	0.86	Q	V			
13+25	0.5590	0.87	Q	V			
13+30	0.5651	0.88	Q	V			
13+35	0.5712	0.89	Q	V			
13+40	0.5775	0.91	Q	V			
13+45	0.5838	0.92	Q	V			
13+50	0.5902	0.93	Q	V			
13+55	0.5967	0.95	Q	V			
14+ 0	0.6034	0.96	Q	V			
14+ 5	0.6101	0.98	Q	V			
14+10	0.6170	1.00	Q	V			
14+15	0.6240	1.01	Q	V			
14+20	0.6311	1.03	Q	V			
14+25	0.6384	1.05	Q	V			
14+30	0.6458	1.08	Q	V			
14+35	0.6533	1.10	Q	V			
14+40	0.6611	1.12	Q	V			
14+45	0.6690	1.15	Q	V			
14+50	0.6771	1.18	Q	V			
14+55	0.6855	1.21	Q	V			
15+ 0	0.6940	1.24	Q	V			
15+ 5	0.7028	1.28	Q	V			
15+10	0.7119	1.32	Q	V			
15+15	0.7213	1.37	Q	V			
15+20	0.7311	1.42	Q	V			
15+25	0.7412	1.46	Q	V			
15+30	0.7515	1.50	Q	V			
15+35	0.7619	1.52	Q	V			
15+40	0.7725	1.54	Q	V			
15+45	0.7834	1.58	Q	V			
15+50	0.7950	1.68	Q	V			
15+55	0.8077	1.85	Q	V			
16+ 0	0.8228	2.19	Q	V			
16+ 5	0.8448	3.19	Q	V			
16+10	0.8782	4.85	Q	V			
16+15	0.9226	6.44	V Q				
16+20	0.9722	7.20	V Q				
16+25	1.0164	6.43	Q				
16+30	1.0493	4.78	Q	V			
16+35	1.0749	3.71	Q	V			
16+40	1.0961	3.08	Q	V			
16+45	1.1151	2.76	Q	V			
16+50	1.1323	2.50	Q	V			
16+55	1.1480	2.29	Q	V			
17+ 0	1.1626	2.11	Q	V			
17+ 5	1.1760	1.95	Q	V			
17+10	1.1886	1.83	Q	V			
17+15	1.2004	1.72	Q	V			
17+20	1.2114	1.60	Q	V			

17+25	1.2218	1.51	Q		V	
17+30	1.2316	1.42	Q		V	
17+35	1.2410	1.37	Q		V	
17+40	1.2501	1.32	Q		V	
17+45	1.2588	1.26	Q		V	
17+50	1.2670	1.19	Q		V	
17+55	1.2750	1.15	Q		V	
18+ 0	1.2825	1.10	Q		V	
18+ 5	1.2899	1.06	Q		V	
18+10	1.2969	1.02	Q		V	
18+15	1.3036	0.98	Q		V	
18+20	1.3101	0.94	Q		V	
18+25	1.3163	0.91	Q		V	
18+30	1.3225	0.89	Q		V	
18+35	1.3284	0.87	Q		V	
18+40	1.3342	0.84	Q		V	
18+45	1.3397	0.80	Q		V	
18+50	1.3448	0.74	Q		V	
18+55	1.3498	0.72	Q		V	
19+ 0	1.3546	0.70	Q		V	
19+ 5	1.3594	0.69	Q		V	
19+10	1.3641	0.68	Q		V	
19+15	1.3686	0.67	Q		V	
19+20	1.3732	0.65	Q		V	
19+25	1.3776	0.64	Q		V	
19+30	1.3819	0.63	Q		V	
19+35	1.3862	0.62	Q		V	
19+40	1.3905	0.61	Q		V	
19+45	1.3946	0.61	Q		V	
19+50	1.3987	0.60	Q		V	
19+55	1.4028	0.59	Q		V	
20+ 0	1.4068	0.58	Q		V	
20+ 5	1.4108	0.57	Q		V	
20+10	1.4147	0.57	Q		V	
20+15	1.4185	0.56	Q		V	
20+20	1.4223	0.55	Q		V	
20+25	1.4261	0.55	Q		V	
20+30	1.4298	0.54	Q		V	
20+35	1.4335	0.54	Q		V	
20+40	1.4372	0.53	Q		V	
20+45	1.4408	0.52	Q		V	
20+50	1.4443	0.52	Q		V	
20+55	1.4479	0.51	Q		V	
21+ 0	1.4514	0.51	Q		V	
21+ 5	1.4549	0.50	Q		V	
21+10	1.4583	0.50	Q		V	
21+15	1.4617	0.49	Q		V	
21+20	1.4651	0.49	Q		V	
21+25	1.4684	0.49	Q		V	
21+30	1.4717	0.48	Q		V	
21+35	1.4750	0.48	Q		V	
21+40	1.4783	0.47	Q		V	
21+45	1.4815	0.47	Q		V	
21+50	1.4847	0.47	Q		V	
21+55	1.4879	0.46	Q		V	
22+ 0	1.4911	0.46	Q		V	
22+ 5	1.4942	0.45	Q		V	
22+10	1.4973	0.45	Q		V	
22+15	1.5004	0.45	Q		V	

22+20	1.5034	0.44	Q				V
22+25	1.5065	0.44	Q				V
22+30	1.5095	0.44	Q				V
22+35	1.5125	0.44	Q				V
22+40	1.5155	0.43	Q				V
22+45	1.5184	0.43	Q				V
22+50	1.5214	0.43	Q				V
22+55	1.5243	0.42	Q				V
23+ 0	1.5272	0.42	Q				V
23+ 5	1.5301	0.42	Q				V
23+10	1.5329	0.42	Q				V
23+15	1.5358	0.41	Q				V
23+20	1.5386	0.41	Q				V
23+25	1.5414	0.41	Q				V
23+30	1.5442	0.41	Q				V
23+35	1.5470	0.40	Q				V
23+40	1.5497	0.40	Q				V
23+45	1.5525	0.40	Q				V
23+50	1.5552	0.40	Q				V
23+55	1.5579	0.39	Q				V
24+ 0	1.5606	0.39	Q				V
24+ 5	1.5632	0.38	Q				V
24+10	1.5656	0.35	Q				V
24+15	1.5677	0.30	Q				V
24+20	1.5693	0.23	Q				V
24+25	1.5704	0.17	Q				V
24+30	1.5714	0.13	Q				V
24+35	1.5721	0.11	Q				V
24+40	1.5728	0.09	Q				V
24+45	1.5733	0.08	Q				V
24+50	1.5738	0.07	Q				V
24+55	1.5742	0.06	Q				V
25+ 0	1.5746	0.05	Q				V
25+ 5	1.5749	0.05	Q				V
25+10	1.5752	0.04	Q				V
25+15	1.5755	0.04	Q				V
25+20	1.5757	0.03	Q				V
25+25	1.5759	0.03	Q				V
25+30	1.5760	0.02	Q				V
25+35	1.5762	0.02	Q				V
25+40	1.5763	0.02	Q				V
25+45	1.5764	0.02	Q				V
25+50	1.5765	0.01	Q				V
25+55	1.5766	0.01	Q				V
26+ 0	1.5766	0.01	Q				V
26+ 5	1.5767	0.01	Q				V
26+10	1.5767	0.01	Q				V
26+15	1.5768	0.01	Q				V
26+20	1.5768	0.00	Q				V
26+25	1.5768	0.00	Q				V
26+30	1.5769	0.00	Q				V
26+35	1.5769	0.00	Q				V
26+40	1.5769	0.00	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA B4
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
3.16	1	1.20
Rainfall data for year 100		
3.16	6	3.00
Rainfall data for year 100		
3.16	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	3.16	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
3.16	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.323 (hours)
++
Watershed area = 3.16(Ac.)
Catchment Lag time = 0.258 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 32.2497
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 3.16(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 38.22 (CFS))		
1	3.200	1.223
2	15.329	4.635
3	36.084	7.932
4	56.372	7.753
5	67.965	4.431
6	74.579	2.527
7	79.136	1.742
8	82.675	1.353
9	85.565	1.104
10	87.865	0.879
11	89.812	0.744
12	91.418	0.614
13	92.768	0.516
14	93.832	0.406

15	94.829	0.381
16	95.764	0.358
17	96.507	0.284
18	97.158	0.249
19	97.729	0.218
20	98.204	0.182
21	98.610	0.155
22	98.934	0.124
23	99.256	0.123
24	99.579	0.123
25	100.000	0.062

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7732	0.0840
5	0.8453	0.0722
6	0.9093	0.0640
7	0.9671	0.0578
8	1.0202	0.0531
9	1.0694	0.0492
10	1.1154	0.0460
11	1.1588	0.0433
12	1.1998	0.0410
13	1.2500	0.0501
14	1.2983	0.0483
15	1.3449	0.0466
16	1.3900	0.0451
17	1.4338	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5581	0.0403
21	1.5975	0.0394
22	1.6359	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270

46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174

105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139

164	4.5277	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131
183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119

223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106

282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067

48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087

107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157

166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0207
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0403	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0640	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4441	0.0364	0.4077
194	0.0840	0.0364	0.0477
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0174
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103

225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061

284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 4.97(CFS)

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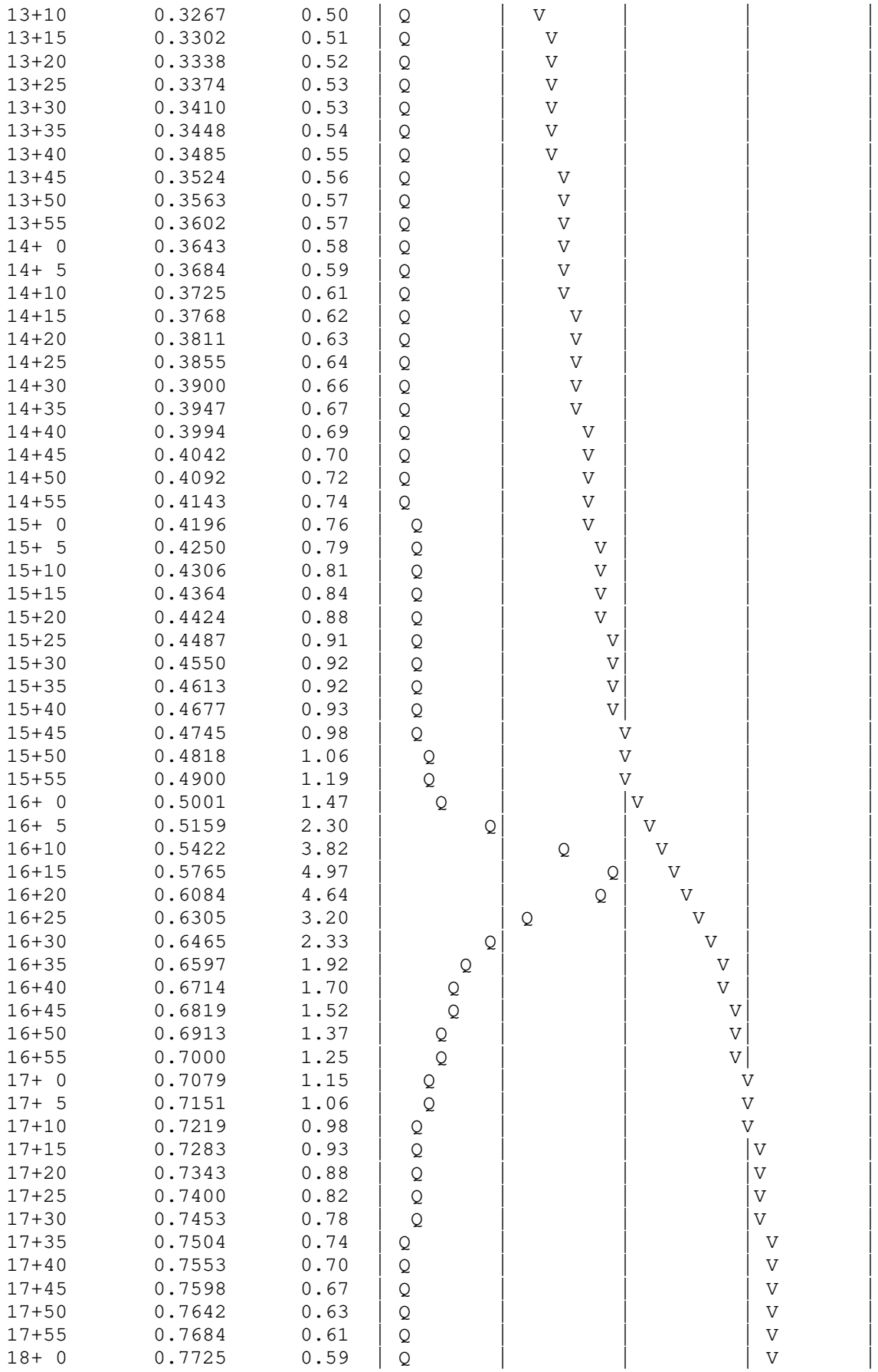
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0 2.5 5.0 7.5 10.0
0+ 5	0.0000	0.01	Q
0+10	0.0003	0.03	Q
0+15	0.0008	0.08	Q
0+20	0.0017	0.13	Q
0+25	0.0028	0.15	Q
0+30	0.0039	0.17	Q
0+35	0.0052	0.18	Q
0+40	0.0065	0.19	Q
0+45	0.0078	0.19	Q
0+50	0.0092	0.20	Q
0+55	0.0106	0.21	Q
1+ 0	0.0120	0.21	Q
1+ 5	0.0135	0.21	Q
1+10	0.0150	0.22	Q
1+15	0.0165	0.22	Q
1+20	0.0180	0.22	Q
1+25	0.0195	0.22	Q
1+30	0.0211	0.23	Q
1+35	0.0227	0.23	Q
1+40	0.0242	0.23	QV
1+45	0.0258	0.23	QV
1+50	0.0274	0.23	QV
1+55	0.0290	0.23	QV
2+ 0	0.0307	0.24	QV
2+ 5	0.0323	0.24	QV
2+10	0.0339	0.24	QV
2+15	0.0356	0.24	QV
2+20	0.0372	0.24	QV
2+25	0.0388	0.24	QV
2+30	0.0405	0.24	QV
2+35	0.0421	0.24	QV
2+40	0.0438	0.24	QV
2+45	0.0455	0.24	QV
2+50	0.0471	0.24	Q V
2+55	0.0488	0.24	Q V
3+ 0	0.0505	0.24	Q V
3+ 5	0.0522	0.24	Q V
3+10	0.0539	0.25	Q V
3+15	0.0556	0.25	Q V

3+20	0.0573	0.25	Q V	|	|	|	|
3+25	0.0590	0.25	Q V	|	|	|	|
3+30	0.0607	0.25	Q V	|	|	|	|
3+35	0.0624	0.25	Q V	|	|	|	|
3+40	0.0641	0.25	|QV	|	|	|	|
3+45	0.0659	0.25	|QV	|	|	|	|
3+50	0.0676	0.25	|QV	|	|	|	|
3+55	0.0693	0.25	|QV	|	|	|	|
4+ 0	0.0711	0.25	|Q V	|	|	|	|
4+ 5	0.0728	0.25	|Q V	|	|	|	|
4+10	0.0746	0.26	|Q V	|	|	|	|
4+15	0.0764	0.26	|Q V	|	|	|	|
4+20	0.0781	0.26	|Q V	|	|	|	|
4+25	0.0799	0.26	|Q V	|	|	|	|
4+30	0.0817	0.26	|Q V	|	|	|	|
4+35	0.0835	0.26	|Q V	|	|	|	|
4+40	0.0853	0.26	|Q V	|	|	|	|
4+45	0.0871	0.26	|Q V	|	|	|	|
4+50	0.0889	0.26	|Q V	|	|	|	|
4+55	0.0907	0.26	|Q V	|	|	|	|
5+ 0	0.0925	0.26	|Q V	|	|	|	|
5+ 5	0.0943	0.27	|Q V	|	|	|	|
5+10	0.0962	0.27	|Q V	|	|	|	|
5+15	0.0980	0.27	|Q V	|	|	|	|
5+20	0.0999	0.27	|Q V	|	|	|	|
5+25	0.1017	0.27	|Q V	|	|	|	|
5+30	0.1036	0.27	|Q V	|	|	|	|
5+35	0.1055	0.27	|Q V	|	|	|	|
5+40	0.1073	0.27	|Q V	|	|	|	|
5+45	0.1092	0.27	|Q V	|	|	|	|
5+50	0.1111	0.27	|Q V	|	|	|	|
5+55	0.1130	0.28	|Q V	|	|	|	|
6+ 0	0.1149	0.28	|Q V	|	|	|	|
6+ 5	0.1168	0.28	|Q V	|	|	|	|
6+10	0.1188	0.28	|Q V	|	|	|	|
6+15	0.1207	0.28	|Q V	|	|	|	|
6+20	0.1226	0.28	|Q V	|	|	|	|
6+25	0.1246	0.28	|Q V	|	|	|	|
6+30	0.1265	0.28	|Q V	|	|	|	|
6+35	0.1285	0.28	|Q V	|	|	|	|
6+40	0.1305	0.29	|Q V	|	|	|	|
6+45	0.1324	0.29	|Q V	|	|	|	|
6+50	0.1344	0.29	|Q V	|	|	|	|
6+55	0.1364	0.29	|Q V	|	|	|	|
7+ 0	0.1384	0.29	|Q V	|	|	|	|
7+ 5	0.1404	0.29	|Q V	|	|	|	|
7+10	0.1425	0.29	|Q V	|	|	|	|
7+15	0.1445	0.30	|Q V	|	|	|	|
7+20	0.1465	0.30	|Q V	|	|	|	|
7+25	0.1486	0.30	|Q V	|	|	|	|
7+30	0.1506	0.30	|Q V	|	|	|	|
7+35	0.1527	0.30	|Q V	|	|	|	|
7+40	0.1548	0.30	|Q V	|	|	|	|
7+45	0.1569	0.30	|Q V	|	|	|	|
7+50	0.1590	0.30	|Q V	|	|	|	|
7+55	0.1611	0.31	|Q V	|	|	|	|
8+ 0	0.1632	0.31	|Q V	|	|	|	|
8+ 5	0.1653	0.31	|Q V	|	|	|	|
8+10	0.1675	0.31	|Q V	|	|	|	|

8+15	0.1696	0.31	Q V	|	|	|	|
8+20	0.1718	0.31	Q V	|	|	|	|
8+25	0.1740	0.32	Q V	|	|	|	|
8+30	0.1762	0.32	Q V	|	|	|	|
8+35	0.1784	0.32	Q V	|	|	|	|
8+40	0.1806	0.32	Q V	|	|	|	|
8+45	0.1828	0.32	Q V	|	|	|	|
8+50	0.1850	0.32	Q V	|	|	|	|
8+55	0.1873	0.33	Q V	|	|	|	|
9+ 0	0.1895	0.33	Q V	|	|	|	|
9+ 5	0.1918	0.33	Q V	|	|	|	|
9+10	0.1941	0.33	Q V	|	|	|	|
9+15	0.1964	0.33	Q V	|	|	|	|
9+20	0.1987	0.34	Q V	|	|	|	|
9+25	0.2010	0.34	Q V	|	|	|	|
9+30	0.2034	0.34	Q V	|	|	|	|
9+35	0.2057	0.34	Q V	|	|	|	|
9+40	0.2081	0.34	Q V	|	|	|	|
9+45	0.2105	0.35	Q V	|	|	|	|
9+50	0.2129	0.35	Q V	|	|	|	|
9+55	0.2153	0.35	Q V	|	|	|	|
10+ 0	0.2177	0.35	Q V	|	|	|	|
10+ 5	0.2201	0.35	Q V	|	|	|	|
10+10	0.2226	0.36	Q V	|	|	|	|
10+15	0.2251	0.36	Q V	|	|	|	|
10+20	0.2276	0.36	Q V	|	|	|	|
10+25	0.2301	0.36	Q V	|	|	|	|
10+30	0.2326	0.37	Q V	|	|	|	|
10+35	0.2352	0.37	Q V	|	|	|	|
10+40	0.2377	0.37	Q V	|	|	|	|
10+45	0.2403	0.38	Q V	|	|	|	|
10+50	0.2429	0.38	Q V	|	|	|	|
10+55	0.2455	0.38	Q V	|	|	|	|
11+ 0	0.2482	0.38	Q V	|	|	|	|
11+ 5	0.2508	0.39	Q V	|	|	|	|
11+10	0.2535	0.39	Q V	|	|	|	|
11+15	0.2562	0.39	Q V	|	|	|	|
11+20	0.2590	0.40	Q | V	|	|	|	|
11+25	0.2617	0.40	Q | V	|	|	|	|
11+30	0.2645	0.40	Q | V	|	|	|	|
11+35	0.2673	0.41	Q | V	|	|	|	|
11+40	0.2701	0.41	Q | V	|	|	|	|
11+45	0.2729	0.41	Q | V	|	|	|	|
11+50	0.2758	0.42	Q | V	|	|	|	|
11+55	0.2787	0.42	Q | V	|	|	|	|
12+ 0	0.2816	0.42	Q | V	|	|	|	|
12+ 5	0.2846	0.43	Q | V	|	|	|	|
12+10	0.2876	0.43	Q | V	|	|	|	|
12+15	0.2906	0.44	Q | V	|	|	|	|
12+20	0.2937	0.45	Q | V	|	|	|	|
12+25	0.2968	0.45	Q | V	|	|	|	|
12+30	0.3000	0.46	Q | V	|	|	|	|
12+35	0.3032	0.46	Q | V	|	|	|	|
12+40	0.3064	0.47	Q | V	|	|	|	|
12+45	0.3097	0.48	Q | V	|	|	|	|
12+50	0.3130	0.48	Q | V	|	|	|	|
12+55	0.3164	0.49	Q | V	|	|	|	|
13+ 0	0.3198	0.49	Q | V	|	|	|	|
13+ 5	0.3232	0.50	Q | V	|	|	|	|



13+10	0.3267	0.50	Q	V			
13+15	0.3302	0.51	Q	V			
13+20	0.3338	0.52	Q	V			
13+25	0.3374	0.53	Q	V			
13+30	0.3410	0.53	Q	V			
13+35	0.3448	0.54	Q	V			
13+40	0.3485	0.55	Q	V			
13+45	0.3524	0.56	Q	V			
13+50	0.3563	0.57	Q	V			
13+55	0.3602	0.57	Q	V			
14+ 0	0.3643	0.58	Q	V			
14+ 5	0.3684	0.59	Q	V			
14+10	0.3725	0.61	Q	V			
14+15	0.3768	0.62	Q	V			
14+20	0.3811	0.63	Q	V			
14+25	0.3855	0.64	Q	V			
14+30	0.3900	0.66	Q	V			
14+35	0.3947	0.67	Q	V			
14+40	0.3994	0.69	Q	V			
14+45	0.4042	0.70	Q	V			
14+50	0.4092	0.72	Q	V			
14+55	0.4143	0.74	Q	V			
15+ 0	0.4196	0.76	Q	V			
15+ 5	0.4250	0.79	Q	V			
15+10	0.4306	0.81	Q	V			
15+15	0.4364	0.84	Q	V			
15+20	0.4424	0.88	Q	V			
15+25	0.4487	0.91	Q	V			
15+30	0.4550	0.92	Q	V			
15+35	0.4613	0.92	Q	V			
15+40	0.4677	0.93	Q	V			
15+45	0.4745	0.98	Q	V			
15+50	0.4818	1.06	Q	V			
15+55	0.4900	1.19	Q	V			
16+ 0	0.5001	1.47	Q	V			
16+ 5	0.5159	2.30	Q	V			
16+10	0.5422	3.82	Q	V			
16+15	0.5765	4.97	Q	V			
16+20	0.6084	4.64	Q	V			
16+25	0.6305	3.20	Q	V			
16+30	0.6465	2.33	Q	V			
16+35	0.6597	1.92	Q	V			
16+40	0.6714	1.70	Q	V			
16+45	0.6819	1.52	Q	V			
16+50	0.6913	1.37	Q	V			
16+55	0.7000	1.25	Q	V			
17+ 0	0.7079	1.15	Q	V			
17+ 5	0.7151	1.06	Q	V			
17+10	0.7219	0.98	Q	V			
17+15	0.7283	0.93	Q	V			
17+20	0.7343	0.88	Q	V			
17+25	0.7400	0.82	Q	V			
17+30	0.7453	0.78	Q	V			
17+35	0.7504	0.74	Q	V			
17+40	0.7553	0.70	Q	V			
17+45	0.7598	0.67	Q	V			
17+50	0.7642	0.63	Q	V			
17+55	0.7684	0.61	Q	V			
18+ 0	0.7725	0.59	Q	V			

18+ 5	0.7763	0.55	Q			V	
18+10	0.7798	0.51	Q			V	
18+15	0.7832	0.49	Q			V	
18+20	0.7864	0.48	Q			V	
18+25	0.7896	0.46	Q			V	
18+30	0.7928	0.45	Q			V	
18+35	0.7958	0.44	Q			V	
18+40	0.7988	0.43	Q			V	
18+45	0.8017	0.42	Q			V	
18+50	0.8046	0.42	Q			V	
18+55	0.8074	0.41	Q			V	
19+ 0	0.8102	0.40	Q			V	
19+ 5	0.8129	0.39	Q			V	
19+10	0.8156	0.39	Q			V	
19+15	0.8182	0.38	Q			V	
19+20	0.8208	0.38	Q			V	
19+25	0.8233	0.37	Q			V	
19+30	0.8259	0.37	Q			V	
19+35	0.8283	0.36	Q			V	
19+40	0.8308	0.36	Q			V	
19+45	0.8332	0.35	Q			V	
19+50	0.8356	0.35	Q			V	
19+55	0.8379	0.34	Q			V	
20+ 0	0.8403	0.34	Q			V	
20+ 5	0.8426	0.33	Q			V	
20+10	0.8448	0.33	Q			V	
20+15	0.8471	0.33	Q			V	
20+20	0.8493	0.32	Q			V	
20+25	0.8515	0.32	Q			V	
20+30	0.8537	0.32	Q			V	
20+35	0.8558	0.31	Q			V	
20+40	0.8579	0.31	Q			V	
20+45	0.8601	0.31	Q			V	
20+50	0.8621	0.30	Q			V	
20+55	0.8642	0.30	Q			V	
21+ 0	0.8663	0.30	Q			V	
21+ 5	0.8683	0.29	Q			V	
21+10	0.8703	0.29	Q			V	
21+15	0.8723	0.29	Q			V	
21+20	0.8743	0.29	Q			V	
21+25	0.8762	0.28	Q			V	
21+30	0.8782	0.28	Q			V	
21+35	0.8801	0.28	Q			V	
21+40	0.8820	0.28	Q			V	
21+45	0.8839	0.28	Q			V	
21+50	0.8858	0.27	Q			V	
21+55	0.8877	0.27	Q			V	
22+ 0	0.8895	0.27	Q			V	
22+ 5	0.8914	0.27	Q			V	
22+10	0.8932	0.27	Q			V	
22+15	0.8950	0.26	Q			V	
22+20	0.8968	0.26	Q			V	
22+25	0.8986	0.26	Q			V	
22+30	0.9004	0.26	Q			V	
22+35	0.9021	0.26	Q			V	
22+40	0.9039	0.25	Q			V	
22+45	0.9056	0.25	Q			V	
22+50	0.9073	0.25	Q			V	
22+55	0.9091	0.25	Q			V	

23+ 0	0.9108	0.25	Q	|	|	|	V |
23+ 5	0.9125	0.25	Q	|	|	|	V |
23+10	0.9141	0.24	Q	|	|	|	V |
23+15	0.9158	0.24	Q	|	|	|	V|
23+20	0.9175	0.24	Q	|	|	|	V|
23+25	0.9191	0.24	Q	|	|	|	V|
23+30	0.9208	0.24	Q	|	|	|	V|
23+35	0.9224	0.24	Q	|	|	|	V|
23+40	0.9240	0.24	Q	|	|	|	V|
23+45	0.9256	0.23	Q	|	|	|	V|
23+50	0.9273	0.23	Q	|	|	|	V|
23+55	0.9288	0.23	Q	|	|	|	V|
24+ 0	0.9304	0.23	Q	|	|	|	V|
24+ 5	0.9320	0.22	Q	|	|	|	V|
24+10	0.9333	0.19	Q	|	|	|	V|
24+15	0.9343	0.15	Q	|	|	|	V|
24+20	0.9350	0.10	Q	|	|	|	V|
24+25	0.9355	0.07	Q	|	|	|	V|
24+30	0.9359	0.06	Q	|	|	|	V|
24+35	0.9362	0.05	Q	|	|	|	V|
24+40	0.9365	0.04	Q	|	|	|	V|
24+45	0.9367	0.03	Q	|	|	|	V|
24+50	0.9369	0.03	Q	|	|	|	V|
24+55	0.9371	0.02	Q	|	|	|	V|
25+ 0	0.9372	0.02	Q	|	|	|	V|
25+ 5	0.9373	0.02	Q	|	|	|	V|
25+10	0.9374	0.01	Q	|	|	|	V|
25+15	0.9375	0.01	Q	|	|	|	V|
25+20	0.9375	0.01	Q	|	|	|	V|
25+25	0.9376	0.01	Q	|	|	|	V|
25+30	0.9376	0.01	Q	|	|	|	V|
25+35	0.9377	0.00	Q	|	|	|	V|
25+40	0.9377	0.00	Q	|	|	|	V|
25+45	0.9377	0.00	Q	|	|	|	V|
25+50	0.9377	0.00	Q	|	|	|	V|
25+55	0.9377	0.00	Q	|	|	|	V|
26+ 0	0.9377	0.00	Q	|	|	|	V|

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA B5
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
1.86	1	1.20
Rainfall data for year 100		
1.86	6	3.00
Rainfall data for year 100		
1.86	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	1.86	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
1.86	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.249 (hours)
++
Watershed area = 1.86(Ac.)
Catchment Lag time = 0.199 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 41.8340
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 1.86(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 22.49 (CFS))		
1	4.662	1.049
2	24.009	4.352
3	51.644	6.216
4	68.178	3.719
5	76.218	1.809
6	81.449	1.177
7	85.368	0.882
8	88.318	0.664
9	90.701	0.536
10	92.538	0.413
11	93.954	0.318
12	95.232	0.288
13	96.304	0.241
14	97.164	0.193

15	97.882	0.162
16	98.460	0.130
17	98.903	0.100
18	99.321	0.094
19	99.739	0.094
20	100.000	0.059

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5860	0.1419
3	0.6892	0.1032
4	0.7732	0.0840
5	0.8454	0.0722
6	0.9094	0.0640
7	0.9672	0.0578
8	1.0203	0.0531
9	1.0695	0.0492
10	1.1155	0.0460
11	1.1589	0.0433
12	1.1999	0.0410
13	1.2500	0.0501
14	1.2983	0.0483
15	1.3450	0.0466
16	1.3901	0.0451
17	1.4339	0.0438
18	1.4764	0.0425
19	1.5178	0.0414
20	1.5582	0.0403
21	1.5975	0.0394
22	1.6360	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8508	0.0341
29	1.8843	0.0335
30	1.9172	0.0330
31	1.9497	0.0324
32	1.9816	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1926	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256

51	2.5150	0.0253
52	2.5401	0.0251
53	2.5649	0.0249
54	2.5896	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6622	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8020	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9136	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1623	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2404	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5882	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170

110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8406	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0774	0.0154
134	4.0927	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2131	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3157	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5139	0.0139
164	4.5277	0.0138
165	4.5415	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5826	0.0137

169	4.5962	0.0136
170	4.6098	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6503	0.0135
174	4.6637	0.0134
175	4.6771	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7566	0.0132
182	4.7697	0.0131
183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8348	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1235	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2082	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3151	0.0118
227	5.3268	0.0117

228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4199	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5453	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5902	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7337	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8737	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9372	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9687	0.0105
286	5.9791	0.0105

287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068

53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090

112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172

171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0207
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0403	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0640	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4441	0.0364	0.4077
194	0.0840	0.0364	0.0477
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0174
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096

230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 3.45(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.01	Q				
0+10	0.0003	0.03	Q				
0+15	0.0007	0.07	Q				
0+20	0.0014	0.09	Q				
0+25	0.0021	0.10	Q				
0+30	0.0028	0.11	Q				
0+35	0.0036	0.11	Q				
0+40	0.0044	0.12	Q				
0+45	0.0052	0.12	Q				
0+50	0.0061	0.12	Q				
0+55	0.0070	0.13	Q				
1+ 0	0.0078	0.13	Q				
1+ 5	0.0087	0.13	Q				
1+10	0.0096	0.13	Q				
1+15	0.0106	0.13	Q				
1+20	0.0115	0.13	Q				
1+25	0.0124	0.14	Q				
1+30	0.0134	0.14	Q				
1+35	0.0143	0.14	QV				
1+40	0.0152	0.14	QV				
1+45	0.0162	0.14	QV				
1+50	0.0171	0.14	QV				
1+55	0.0181	0.14	QV				
2+ 0	0.0191	0.14	QV				
2+ 5	0.0200	0.14	QV				
2+10	0.0210	0.14	QV				
2+15	0.0220	0.14	QV				
2+20	0.0229	0.14	QV				
2+25	0.0239	0.14	QV				
2+30	0.0249	0.14	QV				
2+35	0.0259	0.14	QV				
2+40	0.0268	0.14	QV				
2+45	0.0278	0.14	Q V				
2+50	0.0288	0.14	Q V				
2+55	0.0298	0.14	Q V				
3+ 0	0.0308	0.14	Q V				
3+ 5	0.0318	0.14	Q V				
3+10	0.0328	0.15	Q V				
3+15	0.0338	0.15	Q V				
3+20	0.0348	0.15	Q V				
3+25	0.0358	0.15	Q V				
3+30	0.0368	0.15	Q V				
3+35	0.0379	0.15	Q V				
3+40	0.0389	0.15	Q V				

3+45	0.0399	0.15	Q V	|	|	|	|
3+50	0.0409	0.15	Q V	|	|	|	|
3+55	0.0420	0.15	Q V	|	|	|	|
4+ 0	0.0430	0.15	Q V	|	|	|	|
4+ 5	0.0440	0.15	Q V	|	|	|	|
4+10	0.0451	0.15	Q V	|	|	|	|
4+15	0.0461	0.15	Q V	|	|	|	|
4+20	0.0472	0.15	Q V	|	|	|	|
4+25	0.0482	0.15	Q V	|	|	|	|
4+30	0.0493	0.15	Q V	|	|	|	|
4+35	0.0503	0.15	Q V	|	|	|	|
4+40	0.0514	0.15	Q V	|	|	|	|
4+45	0.0525	0.15	Q V	|	|	|	|
4+50	0.0535	0.16	Q V	|	|	|	|
4+55	0.0546	0.16	Q V	|	|	|	|
5+ 0	0.0557	0.16	Q V	|	|	|	|
5+ 5	0.0568	0.16	Q V	|	|	|	|
5+10	0.0579	0.16	Q V	|	|	|	|
5+15	0.0589	0.16	Q V	|	|	|	|
5+20	0.0600	0.16	Q V	|	|	|	|
5+25	0.0611	0.16	Q V	|	|	|	|
5+30	0.0622	0.16	Q V	|	|	|	|
5+35	0.0634	0.16	Q V	|	|	|	|
5+40	0.0645	0.16	Q V	|	|	|	|
5+45	0.0656	0.16	Q V	|	|	|	|
5+50	0.0667	0.16	Q V	|	|	|	|
5+55	0.0678	0.16	Q V	|	|	|	|
6+ 0	0.0690	0.16	Q V	|	|	|	|
6+ 5	0.0701	0.16	Q V	|	|	|	|
6+10	0.0712	0.17	Q V	|	|	|	|
6+15	0.0724	0.17	Q V	|	|	|	|
6+20	0.0735	0.17	Q V	|	|	|	|
6+25	0.0747	0.17	Q V	|	|	|	|
6+30	0.0758	0.17	Q V	|	|	|	|
6+35	0.0770	0.17	Q V	|	|	|	|
6+40	0.0782	0.17	Q V	|	|	|	|
6+45	0.0793	0.17	Q V	|	|	|	|
6+50	0.0805	0.17	Q V	|	|	|	|
6+55	0.0817	0.17	Q V	|	|	|	|
7+ 0	0.0829	0.17	Q V	|	|	|	|
7+ 5	0.0841	0.17	Q V	|	|	|	|
7+10	0.0853	0.17	Q V	|	|	|	|
7+15	0.0865	0.17	Q V	|	|	|	|
7+20	0.0877	0.18	Q V	|	|	|	|
7+25	0.0889	0.18	Q V	|	|	|	|
7+30	0.0901	0.18	Q V	|	|	|	|
7+35	0.0914	0.18	Q V	|	|	|	|
7+40	0.0926	0.18	Q V	|	|	|	|
7+45	0.0938	0.18	Q V	|	|	|	|
7+50	0.0951	0.18	Q V	|	|	|	|
7+55	0.0963	0.18	Q V	|	|	|	|
8+ 0	0.0976	0.18	Q V	|	|	|	|
8+ 5	0.0988	0.18	Q V	|	|	|	|
8+10	0.1001	0.18	Q V	|	|	|	|
8+15	0.1014	0.19	Q V	|	|	|	|
8+20	0.1027	0.19	Q V	|	|	|	|
8+25	0.1040	0.19	Q V	|	|	|	|
8+30	0.1053	0.19	Q V	|	|	|	|
8+35	0.1066	0.19	Q V	|	|	|	|

8+40	0.1079	0.19	Q	V	|	|	|	|
8+45	0.1092	0.19	Q	V	|	|	|	|
8+50	0.1105	0.19	Q	V	|	|	|	|
8+55	0.1119	0.19	Q	V	|	|	|	|
9+ 0	0.1132	0.19	Q	V	|	|	|	|
9+ 5	0.1145	0.20	Q	V	|	|	|	|
9+10	0.1159	0.20	Q	V	|	|	|	|
9+15	0.1173	0.20	Q	V	|	|	|	|
9+20	0.1186	0.20	Q	V	|	|	|	|
9+25	0.1200	0.20	Q	V	|	|	|	|
9+30	0.1214	0.20	Q	V	|	|	|	|
9+35	0.1228	0.20	Q	V	|	|	|	|
9+40	0.1242	0.20	Q	V	|	|	|	|
9+45	0.1256	0.21	Q	V	|	|	|	|
9+50	0.1270	0.21	Q	V	|	|	|	|
9+55	0.1285	0.21	Q	V	|	|	|	|
10+ 0	0.1299	0.21	Q	V	|	|	|	|
10+ 5	0.1314	0.21	Q	V	|	|	|	|
10+10	0.1328	0.21	Q	V	|	|	|	|
10+15	0.1343	0.21	Q	V	|	|	|	|
10+20	0.1358	0.22	Q	V	|	|	|	|
10+25	0.1373	0.22	Q	V	|	|	|	|
10+30	0.1388	0.22	Q	V	|	|	|	|
10+35	0.1403	0.22	Q	V	|	|	|	|
10+40	0.1418	0.22	Q	V	|	|	|	|
10+45	0.1433	0.22	Q	V	|	|	|	|
10+50	0.1449	0.22	Q	V	|	|	|	|
10+55	0.1465	0.23	Q	V	|	|	|	|
11+ 0	0.1480	0.23	Q	V	|	|	|	|
11+ 5	0.1496	0.23	Q	V	|	|	|	|
11+10	0.1512	0.23	Q	V	|	|	|	|
11+15	0.1528	0.23	Q	|	V	|	|	|
11+20	0.1544	0.24	Q	|	V	|	|	|
11+25	0.1561	0.24	Q	|	V	|	|	|
11+30	0.1577	0.24	Q	|	V	|	|	|
11+35	0.1594	0.24	Q	|	V	|	|	|
11+40	0.1611	0.24	Q	|	V	|	|	|
11+45	0.1628	0.25	Q	|	V	|	|	|
11+50	0.1645	0.25	Q	|	V	|	|	|
11+55	0.1662	0.25	|	Q	|	V	|	|	|
12+ 0	0.1679	0.25	|	Q	|	V	|	|	|
12+ 5	0.1697	0.26	|	Q	|	V	|	|	|
12+10	0.1715	0.26	|	Q	|	V	|	|	|
12+15	0.1733	0.26	|	Q	|	V	|	|	|
12+20	0.1751	0.27	|	Q	|	V	|	|	|
12+25	0.1770	0.27	|	Q	|	V	|	|	|
12+30	0.1789	0.27	|	Q	|	V	|	|	|
12+35	0.1808	0.28	|	Q	|	|	V	|	|
12+40	0.1827	0.28	|	Q	|	|	V	|	|
12+45	0.1847	0.28	|	Q	|	|	V	|	|
12+50	0.1867	0.29	|	Q	|	|	V	|	|
12+55	0.1887	0.29	|	Q	|	|	V	|	|
13+ 0	0.1907	0.29	|	Q	|	|	V	|	|
13+ 5	0.1927	0.30	|	Q	|	|	V	|	|
13+10	0.1948	0.30	|	Q	|	|	|	V	|
13+15	0.1969	0.31	|	Q	|	|	|	V	|
13+20	0.1990	0.31	|	Q	|	|	|	V	|
13+25	0.2012	0.31	|	Q	|	|	|	V	|
13+30	0.2034	0.32	|	Q	|	|	|	V	|

13+35	0.2056	0.32	Q	V		
13+40	0.2079	0.33	Q	V		
13+45	0.2102	0.33	Q	V		
13+50	0.2125	0.34	Q	V		
13+55	0.2149	0.34	Q	V		
14+ 0	0.2173	0.35	Q	V		
14+ 5	0.2198	0.36	Q	V		
14+10	0.2223	0.36	Q	V		
14+15	0.2248	0.37	Q	V		
14+20	0.2274	0.38	Q	V		
14+25	0.2301	0.39	Q	V		
14+30	0.2328	0.39	Q	V		
14+35	0.2356	0.40	Q	V		
14+40	0.2384	0.41	Q	V		
14+45	0.2413	0.42	Q	V		
14+50	0.2443	0.44	Q	V		
14+55	0.2474	0.45	Q	V		
15+ 0	0.2506	0.46	Q	V		
15+ 5	0.2539	0.48	Q	V		
15+10	0.2573	0.49	Q	V		
15+15	0.2608	0.51	Q	V		
15+20	0.2645	0.53	Q	V		
15+25	0.2683	0.55	Q	V		
15+30	0.2721	0.55	Q	V		
15+35	0.2758	0.55	Q	V		
15+40	0.2797	0.56	Q	V		
15+45	0.2838	0.60	Q	V		
15+50	0.2884	0.66	Q	V		
15+55	0.2936	0.76	Q	V		
16+ 0	0.3003	0.97	Q	V		
16+ 5	0.3117	1.66	Q	V		
16+10	0.3321	2.95	Q	V		
16+15	0.3558	3.45	Q	V		
16+20	0.3722	2.38	Q	V		
16+25	0.3829	1.54	Q	V		
16+30	0.3912	1.22	Q	V		
16+35	0.3985	1.05	Q	V		
16+40	0.4048	0.92	Q	V		
16+45	0.4105	0.82	Q	V		
16+50	0.4155	0.73	Q	V		
16+55	0.4201	0.66	Q	V		
17+ 0	0.4244	0.62	Q	V		
17+ 5	0.4283	0.57	Q	V		
17+10	0.4320	0.53	Q	V		
17+15	0.4354	0.49	Q	V		
17+20	0.4386	0.46	Q	V		
17+25	0.4416	0.43	Q	V		
17+30	0.4444	0.41	Q	V		
17+35	0.4472	0.40	Q	V		
17+40	0.4497	0.37	Q	V		
17+45	0.4520	0.33	Q	V		
17+50	0.4542	0.32	Q	V		
17+55	0.4564	0.31	Q	V		
18+ 0	0.4584	0.30	Q	V		
18+ 5	0.4605	0.30	Q	V		
18+10	0.4625	0.29	Q	V		
18+15	0.4644	0.28	Q	V		
18+20	0.4662	0.27	Q	V		
18+25	0.4681	0.27	Q	V		

18+30	0.4699	0.26	Q			V	
18+35	0.4716	0.25	Q			V	
18+40	0.4733	0.25	Q			V	
18+45	0.4750	0.24	Q			V	
18+50	0.4767	0.24	Q			V	
18+55	0.4783	0.24	Q			V	
19+ 0	0.4799	0.23	Q			V	
19+ 5	0.4814	0.23	Q			V	
19+10	0.4830	0.22	Q			V	
19+15	0.4845	0.22	Q			V	
19+20	0.4860	0.22	Q			V	
19+25	0.4875	0.21	Q			V	
19+30	0.4889	0.21	Q			V	
19+35	0.4904	0.21	Q			V	
19+40	0.4918	0.21	Q			V	
19+45	0.4932	0.20	Q			V	
19+50	0.4946	0.20	Q			V	
19+55	0.4960	0.20	Q			V	
20+ 0	0.4973	0.20	Q			V	
20+ 5	0.4987	0.19	Q			V	
20+10	0.5000	0.19	Q			V	
20+15	0.5013	0.19	Q			V	
20+20	0.5026	0.19	Q			V	
20+25	0.5039	0.19	Q			V	
20+30	0.5051	0.18	Q			V	
20+35	0.5064	0.18	Q			V	
20+40	0.5076	0.18	Q			V	
20+45	0.5089	0.18	Q			V	
20+50	0.5101	0.18	Q			V	
20+55	0.5113	0.18	Q			V	
21+ 0	0.5125	0.17	Q			V	
21+ 5	0.5137	0.17	Q			V	
21+10	0.5148	0.17	Q			V	
21+15	0.5160	0.17	Q			V	
21+20	0.5172	0.17	Q			V	
21+25	0.5183	0.17	Q			V	
21+30	0.5194	0.17	Q			V	
21+35	0.5206	0.16	Q			V	
21+40	0.5217	0.16	Q			V	
21+45	0.5228	0.16	Q			V	
21+50	0.5239	0.16	Q			V	
21+55	0.5250	0.16	Q			V	
22+ 0	0.5261	0.16	Q			V	
22+ 5	0.5272	0.16	Q			V	
22+10	0.5282	0.16	Q			V	
22+15	0.5293	0.15	Q			V	
22+20	0.5303	0.15	Q			V	
22+25	0.5314	0.15	Q			V	
22+30	0.5324	0.15	Q			V	
22+35	0.5335	0.15	Q			V	
22+40	0.5345	0.15	Q			V	
22+45	0.5355	0.15	Q			V	
22+50	0.5365	0.15	Q			V	
22+55	0.5375	0.15	Q			V	
23+ 0	0.5385	0.15	Q			V	
23+ 5	0.5395	0.14	Q			V	
23+10	0.5405	0.14	Q			V	
23+15	0.5415	0.14	Q			V	
23+20	0.5425	0.14	Q			V	

23+25	0.5434	0.14	Q	|	|	|	V|
23+30	0.5444	0.14	Q	|	|	|	V|
23+35	0.5454	0.14	Q	|	|	|	V|
23+40	0.5463	0.14	Q	|	|	|	V|
23+45	0.5473	0.14	Q	|	|	|	V|
23+50	0.5482	0.14	Q	|	|	|	V|
23+55	0.5491	0.14	Q	|	|	|	V|
24+ 0	0.5501	0.14	Q	|	|	|	V|
24+ 5	0.5509	0.13	Q	|	|	|	V|
24+10	0.5516	0.10	Q	|	|	|	V|
24+15	0.5521	0.07	Q	|	|	|	V|
24+20	0.5524	0.04	Q	|	|	|	V|
24+25	0.5526	0.03	Q	|	|	|	V|
24+30	0.5528	0.03	Q	|	|	|	V|
24+35	0.5529	0.02	Q	|	|	|	V|
24+40	0.5530	0.02	Q	|	|	|	V|
24+45	0.5531	0.01	Q	|	|	|	V|
24+50	0.5532	0.01	Q	|	|	|	V|
24+55	0.5532	0.01	Q	|	|	|	V|
25+ 0	0.5533	0.01	Q	|	|	|	V|
25+ 5	0.5533	0.00	Q	|	|	|	V|
25+10	0.5533	0.00	Q	|	|	|	V|
25+15	0.5534	0.00	Q	|	|	|	V|
25+20	0.5534	0.00	Q	|	|	|	V|
25+25	0.5534	0.00	Q	|	|	|	V|
25+30	0.5534	0.00	Q	|	|	|	V|
25+35	0.5534	0.00	Q	|	|	|	V|

APPENDIX B.4: UNIT HYDROGRAPH ANALYSIS, AREAS "C"

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA C1
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
4.98	1	1.20
Rainfall data for year 100		
4.98	6	3.00
Rainfall data for year 100		
4.98	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	4.98	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
4.98	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.377 (hours)
++
Watershed area = 4.98(Ac.)
Catchment Lag time = 0.302 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 27.6304
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 4.98(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 60.23 (CFS))		
1	2.602	1.567
2	11.750	5.510
3	27.990	9.781
4	47.241	11.594
5	61.404	8.530
6	69.742	5.022
7	74.947	3.134
8	78.845	2.348
9	81.980	1.888
10	84.598	1.577
11	86.785	1.317
12	88.565	1.072
13	90.198	0.984
14	91.512	0.791

15	92.683	0.705
16	93.605	0.555
17	94.475	0.524
18	95.306	0.501
19	96.045	0.445
20	96.653	0.366
21	97.196	0.327
22	97.688	0.297
23	98.104	0.250
24	98.478	0.225
25	98.769	0.176
26	99.046	0.166
27	99.322	0.166
28	99.598	0.166
29	100.000	0.083

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7731	0.0840
5	0.8453	0.0722
6	0.9092	0.0639
7	0.9670	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1153	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3448	0.0466
16	1.3899	0.0451
17	1.4337	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0129	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282

42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4820	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177

101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9210	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140

160	4.4721	0.0140
161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120

219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106

278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064
34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066

44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081
93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085

103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129
152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147

162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0208
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0404	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0639	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4440	0.0364	0.4076
194	0.0840	0.0364	0.0476
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0175
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141
211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110

221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066
270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062

280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 7.17(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.01	Q				
0+10	0.0003	0.04	Q				
0+15	0.0010	0.10	Q				
0+20	0.0022	0.17	Q				
0+25	0.0037	0.22	Q				
0+30	0.0054	0.25	Q				
0+35	0.0072	0.27	VQ				
0+40	0.0092	0.28	VQ				
0+45	0.0112	0.29	VQ				
0+50	0.0133	0.30	VQ				
0+55	0.0154	0.31	VQ				
1+ 0	0.0176	0.32	VQ				
1+ 5	0.0199	0.33	VQ				
1+10	0.0222	0.33	VQ				
1+15	0.0245	0.34	VQ				
1+20	0.0268	0.34	VQ				
1+25	0.0292	0.34	VQ				
1+30	0.0316	0.35	VQ				
1+35	0.0340	0.35	VQ				
1+40	0.0365	0.36	VQ				
1+45	0.0389	0.36	|Q				
1+50	0.0414	0.36	|Q				
1+55	0.0439	0.36	|Q				
2+ 0	0.0464	0.37	|Q				
2+ 5	0.0490	0.37	|Q				
2+10	0.0515	0.37	|Q				
2+15	0.0541	0.37	|Q				
2+20	0.0567	0.37	|Q				
2+25	0.0592	0.38	|Q				
2+30	0.0618	0.38	|Q				
2+35	0.0644	0.38	|Q				
2+40	0.0670	0.38	|Q				
2+45	0.0697	0.38	|Q				
2+50	0.0723	0.38	|Q				
2+55	0.0749	0.38	|QV				

3+ 0	0.0776	0.38	QV			
3+ 5	0.0802	0.38	QV			
3+10	0.0829	0.39	QV			
3+15	0.0855	0.39	QV			
3+20	0.0882	0.39	QV			
3+25	0.0909	0.39	QV			
3+30	0.0936	0.39	QV			
3+35	0.0963	0.39	QV			
3+40	0.0990	0.39	QV			
3+45	0.1017	0.39	QV			
3+50	0.1044	0.40	QV			
3+55	0.1072	0.40	QV			
4+ 0	0.1099	0.40	QV			
4+ 5	0.1127	0.40	Q V			
4+10	0.1154	0.40	Q V			
4+15	0.1182	0.40	Q V			
4+20	0.1210	0.40	Q V			
4+25	0.1238	0.41	Q V			
4+30	0.1266	0.41	Q V			
4+35	0.1294	0.41	Q V			
4+40	0.1322	0.41	Q V			
4+45	0.1351	0.41	Q V			
4+50	0.1379	0.41	Q V			
4+55	0.1408	0.41	Q V			
5+ 0	0.1436	0.42	Q V			
5+ 5	0.1465	0.42	Q V			
5+10	0.1494	0.42	Q V			
5+15	0.1523	0.42	Q V			
5+20	0.1552	0.42	Q V			
5+25	0.1581	0.42	Q V			
5+30	0.1610	0.42	Q V			
5+35	0.1640	0.43	Q V			
5+40	0.1669	0.43	Q V			
5+45	0.1699	0.43	Q V			
5+50	0.1728	0.43	Q V			
5+55	0.1758	0.43	Q V			
6+ 0	0.1788	0.43	Q V			
6+ 5	0.1818	0.44	Q V			
6+10	0.1848	0.44	Q V			
6+15	0.1879	0.44	Q V			
6+20	0.1909	0.44	Q V			
6+25	0.1940	0.44	Q V			
6+30	0.1971	0.45	Q V			
6+35	0.2001	0.45	Q V			
6+40	0.2032	0.45	Q V			
6+45	0.2063	0.45	Q V			
6+50	0.2095	0.45	Q V			
6+55	0.2126	0.46	Q V			
7+ 0	0.2157	0.46	Q V			
7+ 5	0.2189	0.46	Q V			
7+10	0.2221	0.46	Q V			
7+15	0.2253	0.46	Q V			
7+20	0.2285	0.47	Q V			
7+25	0.2317	0.47	Q V			
7+30	0.2349	0.47	Q V			
7+35	0.2382	0.47	Q V			
7+40	0.2415	0.47	Q V			
7+45	0.2447	0.48	Q V			
7+50	0.2480	0.48	Q V			

7+55	0.2514	0.48	Q V	|	|	|	|
8+ 0	0.2547	0.48	Q V	|	|	|	|
8+ 5	0.2580	0.49	Q V	|	|	|	|
8+10	0.2614	0.49	Q V	|	|	|	|
8+15	0.2648	0.49	Q V	|	|	|	|
8+20	0.2682	0.49	Q V	|	|	|	|
8+25	0.2716	0.50	Q V	|	|	|	|
8+30	0.2750	0.50	Q V	|	|	|	|
8+35	0.2785	0.50	Q V	|	|	|	|
8+40	0.2819	0.50	Q V	|	|	|	|
8+45	0.2854	0.51	Q V	|	|	|	|
8+50	0.2889	0.51	Q V	|	|	|	|
8+55	0.2925	0.51	Q V	|	|	|	|
9+ 0	0.2960	0.51	Q V	|	|	|	|
9+ 5	0.2996	0.52	Q V	|	|	|	|
9+10	0.3032	0.52	Q V	|	|	|	|
9+15	0.3068	0.52	Q V	|	|	|	|
9+20	0.3104	0.53	Q V	|	|	|	|
9+25	0.3140	0.53	Q V	|	|	|	|
9+30	0.3177	0.53	Q V	|	|	|	|
9+35	0.3214	0.54	Q V	|	|	|	|
9+40	0.3251	0.54	Q V	|	|	|	|
9+45	0.3288	0.54	Q V	|	|	|	|
9+50	0.3326	0.55	Q V	|	|	|	|
9+55	0.3364	0.55	Q V	|	|	|	|
10+ 0	0.3402	0.55	Q V	|	|	|	|
10+ 5	0.3440	0.56	Q V	|	|	|	|
10+10	0.3479	0.56	Q V	|	|	|	|
10+15	0.3518	0.56	Q V	|	|	|	|
10+20	0.3557	0.57	Q V	|	|	|	|
10+25	0.3596	0.57	Q V	|	|	|	|
10+30	0.3636	0.58	Q V	|	|	|	|
10+35	0.3676	0.58	Q V	|	|	|	|
10+40	0.3716	0.58	Q V	|	|	|	|
10+45	0.3757	0.59	Q V	|	|	|	|
10+50	0.3797	0.59	Q V	|	|	|	|
10+55	0.3838	0.60	Q V	|	|	|	|
11+ 0	0.3880	0.60	Q V	|	|	|	|
11+ 5	0.3922	0.61	Q V	|	|	|	|
11+10	0.3964	0.61	Q V	|	|	|	|
11+15	0.4006	0.62	Q V	|	|	|	|
11+20	0.4049	0.62	Q V	|	|	|	|
11+25	0.4092	0.63	Q V	|	|	|	|
11+30	0.4135	0.63	Q V	|	|	|	|
11+35	0.4179	0.64	Q V	|	|	|	|
11+40	0.4223	0.64	Q V	|	|	|	|
11+45	0.4268	0.65	Q V	|	|	|	|
11+50	0.4313	0.65	Q V	|	|	|	|
11+55	0.4358	0.66	Q V	|	|	|	|
12+ 0	0.4404	0.67	Q V	|	|	|	|
12+ 5	0.4450	0.67	Q V	|	|	|	|
12+10	0.4497	0.68	Q V	|	|	|	|
12+15	0.4545	0.69	Q V	|	|	|	|
12+20	0.4593	0.70	Q V	|	|	|	|
12+25	0.4642	0.71	Q V	|	|	|	|
12+30	0.4691	0.72	Q V	|	|	|	|
12+35	0.4741	0.73	Q V	|	|	|	|
12+40	0.4791	0.73	Q V	|	|	|	|
12+45	0.4843	0.74	Q V	|	|	|	|

12+50	0.4894	0.75	Q	V			
12+55	0.4947	0.76	Q	V			
13+ 0	0.5000	0.77	Q	V			
13+ 5	0.5053	0.78	Q	V			
13+10	0.5108	0.79	Q	V			
13+15	0.5163	0.80	Q	V			
13+20	0.5218	0.81	Q	V			
13+25	0.5275	0.82	Q	V			
13+30	0.5332	0.83	Q	V			
13+35	0.5390	0.84	Q	V			
13+40	0.5449	0.86	Q	V			
13+45	0.5509	0.87	Q	V			
13+50	0.5570	0.88	Q	V			
13+55	0.5631	0.90	Q	V			
14+ 0	0.5694	0.91	Q	V			
14+ 5	0.5758	0.93	Q	V			
14+10	0.5823	0.94	Q	V			
14+15	0.5889	0.96	Q	V			
14+20	0.5957	0.98	Q	V			
14+25	0.6025	1.00	Q	V			
14+30	0.6096	1.02	Q	V			
14+35	0.6167	1.04	Q	V			
14+40	0.6241	1.07	Q	V			
14+45	0.6316	1.09	Q	V			
14+50	0.6393	1.12	Q	V			
14+55	0.6472	1.15	Q	V			
15+ 0	0.6554	1.18	Q	V			
15+ 5	0.6638	1.22	Q	V			
15+10	0.6724	1.26	Q	V			
15+15	0.6814	1.30	Q	V			
15+20	0.6907	1.35	Q	V			
15+25	0.7003	1.40	Q	V			
15+30	0.7101	1.43	Q	V			
15+35	0.7200	1.44	Q	V			
15+40	0.7300	1.45	Q	V			
15+45	0.7404	1.51	Q	V			
15+50	0.7515	1.61	Q	V			
15+55	0.7639	1.80	Q	V			
16+ 0	0.7787	2.16	Q	V			
16+ 5	0.8010	3.23	Q	V			
16+10	0.8361	5.10	Q	V			
16+15	0.8828	6.78	Q	V			
16+20	0.9322	7.17	Q	V			
16+25	0.9714	5.70	Q	V			
16+30	0.9998	4.13	Q	V			
16+35	1.0221	3.23	Q	V			
16+40	1.0413	2.79	Q	V			
16+45	1.0586	2.51	Q	V			
16+50	1.0742	2.28	Q	V			
16+55	1.0885	2.08	Q	V			
17+ 0	1.1016	1.90	Q	V			
17+ 5	1.1139	1.78	Q	V			
17+10	1.1252	1.64	Q	V			
17+15	1.1358	1.54	Q	V			
17+20	1.1456	1.43	Q	V			
17+25	1.1550	1.37	Q	V			
17+30	1.1641	1.31	Q	V			
17+35	1.1726	1.24	Q	V			
17+40	1.1807	1.18	Q	V			

17+45	1.1885	1.12	Q			V
17+50	1.1959	1.08	Q			V
17+55	1.2030	1.03	Q			V
18+ 0	1.2097	0.99	Q			V
18+ 5	1.2162	0.94	Q			V
18+10	1.2225	0.91	Q			V
18+15	1.2286	0.88	Q			V
18+20	1.2344	0.85	Q			V
18+25	1.2398	0.79	Q			V
18+30	1.2449	0.74	Q			V
18+35	1.2499	0.72	Q			V
18+40	1.2547	0.70	Q			V
18+45	1.2594	0.69	Q			V
18+50	1.2640	0.67	Q			V
18+55	1.2686	0.66	Q			V
19+ 0	1.2730	0.65	Q			V
19+ 5	1.2774	0.63	Q			V
19+10	1.2817	0.62	Q			V
19+15	1.2859	0.61	Q			V
19+20	1.2900	0.60	Q			V
19+25	1.2941	0.59	Q			V
19+30	1.2982	0.58	Q			V
19+35	1.3021	0.58	Q			V
19+40	1.3060	0.57	Q			V
19+45	1.3099	0.56	Q			V
19+50	1.3137	0.55	Q			V
19+55	1.3174	0.55	Q			V
20+ 0	1.3211	0.54	Q			V
20+ 5	1.3248	0.53	Q			V
20+10	1.3284	0.53	Q			V
20+15	1.3320	0.52	Q			V
20+20	1.3355	0.51	Q			V
20+25	1.3390	0.51	Q			V
20+30	1.3425	0.50	Q			V
20+35	1.3459	0.50	Q			V
20+40	1.3493	0.49	Q			V
20+45	1.3527	0.49	Q			V
20+50	1.3560	0.48	Q			V
20+55	1.3593	0.48	Q			V
21+ 0	1.3625	0.47	Q			V
21+ 5	1.3657	0.47	Q			V
21+10	1.3689	0.46	Q			V
21+15	1.3721	0.46	Q			V
21+20	1.3753	0.46	Q			V
21+25	1.3784	0.45	Q			V
21+30	1.3815	0.45	Q			V
21+35	1.3845	0.44	Q			V
21+40	1.3875	0.44	Q			V
21+45	1.3906	0.44	Q			V
21+50	1.3935	0.43	Q			V
21+55	1.3965	0.43	Q			V
22+ 0	1.3994	0.43	Q			V
22+ 5	1.4024	0.42	Q			V
22+10	1.4053	0.42	Q			V
22+15	1.4081	0.42	Q			V
22+20	1.4110	0.41	Q			V
22+25	1.4138	0.41	Q			V
22+30	1.4166	0.41	Q			V
22+35	1.4194	0.41	Q			V

22+40	1.4222	0.40	Q				V
22+45	1.4250	0.40	Q				V
22+50	1.4277	0.40	Q				V
22+55	1.4304	0.39	Q				V
23+ 0	1.4331	0.39	Q				V
23+ 5	1.4358	0.39	Q				V
23+10	1.4385	0.39	Q				V
23+15	1.4411	0.38	Q				V
23+20	1.4438	0.38	Q				V
23+25	1.4464	0.38	Q				V
23+30	1.4490	0.38	Q				V
23+35	1.4516	0.38	Q				V
23+40	1.4541	0.37	Q				V
23+45	1.4567	0.37	Q				V
23+50	1.4592	0.37	Q				V
23+55	1.4618	0.37	Q				V
24+ 0	1.4643	0.36	Q				V
24+ 5	1.4667	0.35	Q				V
24+10	1.4689	0.32	Q				V
24+15	1.4707	0.26	Q				V
24+20	1.4720	0.19	Q				V
24+25	1.4730	0.14	Q				V
24+30	1.4737	0.11	Q				V
24+35	1.4744	0.09	Q				V
24+40	1.4749	0.08	Q				V
24+45	1.4753	0.06	Q				V
24+50	1.4757	0.06	Q				V
24+55	1.4761	0.05	Q				V
25+ 0	1.4763	0.04	Q				V
25+ 5	1.4766	0.03	Q				V
25+10	1.4768	0.03	Q				V
25+15	1.4770	0.03	Q				V
25+20	1.4771	0.02	Q				V
25+25	1.4772	0.02	Q				V
25+30	1.4774	0.02	Q				V
25+35	1.4774	0.01	Q				V
25+40	1.4775	0.01	Q				V
25+45	1.4776	0.01	Q				V
25+50	1.4776	0.01	Q				V
25+55	1.4777	0.01	Q				V
26+ 0	1.4777	0.00	Q				V
26+ 5	1.4777	0.00	Q				V
26+10	1.4777	0.00	Q				V
26+15	1.4778	0.00	Q				V
26+20	1.4778	0.00	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
PRE-PROJECT - AREA C2
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
3.47	1	1.20
Rainfall data for year 100		
3.47	6	3.00
Rainfall data for year 100		
3.47	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
76.0	76.0	3.47	1.000	0.437	1.000	0.437

Area-averaged adjusted loss rate Fm (In/Hr) = 0.437

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
3.47	1.000	76.0	76.0	3.16	0.563

Area-averaged catchment yield fraction, Y = 0.563
Area-averaged low loss fraction, Yb = 0.437
User entry of time of concentration = 0.507 (hours)
++
Watershed area = 3.47(Ac.)
Catchment Lag time = 0.406 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 20.5457
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.437(In/Hr)
Average low loss rate fraction (Yb) = 0.437 (decimal)
VALLEY UNDEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 3.47(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 41.97 (CFS))		
1	1.831	0.768
2	7.243	2.271
3	16.699	3.968
4	29.880	5.532
5	44.533	6.149
6	56.653	5.086
7	64.711	3.381
8	70.287	2.340
9	74.186	1.636
10	77.267	1.293
11	79.887	1.100
12	82.128	0.940
13	84.097	0.826
14	85.846	0.734

15	87.330	0.623
16	88.607	0.536
17	89.840	0.517
18	90.920	0.453
19	91.824	0.379
20	92.693	0.365
21	93.378	0.287
22	94.035	0.276
23	94.668	0.266
24	95.285	0.259
25	95.865	0.243
26	96.326	0.194
27	96.776	0.189
28	97.170	0.165
29	97.540	0.155
30	97.884	0.144
31	98.173	0.121
32	98.455	0.118
33	98.677	0.093
34	98.883	0.086
35	99.088	0.086
36	99.294	0.086
37	99.499	0.086
38	99.705	0.086
39	100.000	0.043

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7731	0.0840
5	0.8453	0.0722
6	0.9093	0.0640
7	0.9671	0.0578
8	1.0202	0.0531
9	1.0694	0.0492
10	1.1154	0.0460
11	1.1588	0.0433
12	1.1998	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3449	0.0466
16	1.3900	0.0451
17	1.4338	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5581	0.0403
21	1.5975	0.0394
22	1.6359	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324

32	1.9815	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6140	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187

91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145

150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131
183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123

209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108

268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0046	0.0059
2	0.0104	0.0046	0.0059
3	0.0105	0.0046	0.0059
4	0.0105	0.0046	0.0059
5	0.0105	0.0046	0.0059
6	0.0106	0.0046	0.0059
7	0.0106	0.0046	0.0060
8	0.0106	0.0046	0.0060
9	0.0107	0.0047	0.0060
10	0.0107	0.0047	0.0060
11	0.0107	0.0047	0.0060
12	0.0107	0.0047	0.0060
13	0.0108	0.0047	0.0061
14	0.0108	0.0047	0.0061
15	0.0108	0.0047	0.0061
16	0.0108	0.0047	0.0061
17	0.0109	0.0048	0.0061
18	0.0109	0.0048	0.0061
19	0.0110	0.0048	0.0062
20	0.0110	0.0048	0.0062
21	0.0110	0.0048	0.0062
22	0.0110	0.0048	0.0062
23	0.0111	0.0048	0.0062
24	0.0111	0.0048	0.0063
25	0.0111	0.0049	0.0063
26	0.0112	0.0049	0.0063
27	0.0112	0.0049	0.0063
28	0.0112	0.0049	0.0063
29	0.0113	0.0049	0.0064
30	0.0113	0.0049	0.0064
31	0.0114	0.0050	0.0064
32	0.0114	0.0050	0.0064
33	0.0114	0.0050	0.0064

34	0.0114	0.0050	0.0064
35	0.0115	0.0050	0.0065
36	0.0115	0.0050	0.0065
37	0.0116	0.0051	0.0065
38	0.0116	0.0051	0.0065
39	0.0116	0.0051	0.0066
40	0.0117	0.0051	0.0066
41	0.0117	0.0051	0.0066
42	0.0117	0.0051	0.0066
43	0.0118	0.0052	0.0066
44	0.0118	0.0052	0.0067
45	0.0119	0.0052	0.0067
46	0.0119	0.0052	0.0067
47	0.0120	0.0052	0.0067
48	0.0120	0.0052	0.0068
49	0.0120	0.0053	0.0068
50	0.0121	0.0053	0.0068
51	0.0121	0.0053	0.0068
52	0.0122	0.0053	0.0068
53	0.0122	0.0053	0.0069
54	0.0122	0.0053	0.0069
55	0.0123	0.0054	0.0069
56	0.0123	0.0054	0.0069
57	0.0124	0.0054	0.0070
58	0.0124	0.0054	0.0070
59	0.0125	0.0055	0.0070
60	0.0125	0.0055	0.0071
61	0.0126	0.0055	0.0071
62	0.0126	0.0055	0.0071
63	0.0127	0.0055	0.0071
64	0.0127	0.0055	0.0072
65	0.0128	0.0056	0.0072
66	0.0128	0.0056	0.0072
67	0.0129	0.0056	0.0073
68	0.0129	0.0056	0.0073
69	0.0130	0.0057	0.0073
70	0.0130	0.0057	0.0073
71	0.0131	0.0057	0.0074
72	0.0131	0.0057	0.0074
73	0.0132	0.0058	0.0074
74	0.0132	0.0058	0.0075
75	0.0133	0.0058	0.0075
76	0.0133	0.0058	0.0075
77	0.0134	0.0059	0.0076
78	0.0135	0.0059	0.0076
79	0.0135	0.0059	0.0076
80	0.0136	0.0059	0.0076
81	0.0137	0.0060	0.0077
82	0.0137	0.0060	0.0077
83	0.0138	0.0060	0.0078
84	0.0138	0.0060	0.0078
85	0.0139	0.0061	0.0078
86	0.0140	0.0061	0.0079
87	0.0140	0.0061	0.0079
88	0.0141	0.0062	0.0079
89	0.0142	0.0062	0.0080
90	0.0142	0.0062	0.0080
91	0.0143	0.0063	0.0081
92	0.0144	0.0063	0.0081

93	0.0145	0.0063	0.0081
94	0.0145	0.0063	0.0082
95	0.0146	0.0064	0.0082
96	0.0147	0.0064	0.0083
97	0.0148	0.0064	0.0083
98	0.0148	0.0065	0.0083
99	0.0149	0.0065	0.0084
100	0.0150	0.0065	0.0084
101	0.0151	0.0066	0.0085
102	0.0151	0.0066	0.0085
103	0.0152	0.0067	0.0086
104	0.0153	0.0067	0.0086
105	0.0154	0.0067	0.0087
106	0.0155	0.0068	0.0087
107	0.0156	0.0068	0.0088
108	0.0157	0.0068	0.0088
109	0.0158	0.0069	0.0089
110	0.0158	0.0069	0.0089
111	0.0160	0.0070	0.0090
112	0.0160	0.0070	0.0090
113	0.0162	0.0071	0.0091
114	0.0162	0.0071	0.0091
115	0.0164	0.0072	0.0092
116	0.0164	0.0072	0.0093
117	0.0166	0.0072	0.0093
118	0.0167	0.0073	0.0094
119	0.0168	0.0073	0.0095
120	0.0169	0.0074	0.0095
121	0.0170	0.0074	0.0096
122	0.0171	0.0075	0.0097
123	0.0173	0.0076	0.0097
124	0.0174	0.0076	0.0098
125	0.0175	0.0077	0.0099
126	0.0176	0.0077	0.0099
127	0.0178	0.0078	0.0100
128	0.0179	0.0078	0.0101
129	0.0181	0.0079	0.0102
130	0.0182	0.0079	0.0102
131	0.0184	0.0080	0.0104
132	0.0185	0.0081	0.0104
133	0.0187	0.0082	0.0105
134	0.0188	0.0082	0.0106
135	0.0190	0.0083	0.0107
136	0.0191	0.0083	0.0108
137	0.0193	0.0084	0.0109
138	0.0195	0.0085	0.0110
139	0.0197	0.0086	0.0111
140	0.0198	0.0087	0.0112
141	0.0201	0.0088	0.0113
142	0.0202	0.0088	0.0114
143	0.0205	0.0089	0.0115
144	0.0206	0.0090	0.0116
145	0.0214	0.0093	0.0120
146	0.0215	0.0094	0.0121
147	0.0218	0.0095	0.0123
148	0.0220	0.0096	0.0124
149	0.0223	0.0097	0.0126
150	0.0225	0.0098	0.0127
151	0.0228	0.0100	0.0129

152	0.0230	0.0100	0.0130
153	0.0234	0.0102	0.0132
154	0.0236	0.0103	0.0133
155	0.0240	0.0105	0.0135
156	0.0242	0.0106	0.0136
157	0.0246	0.0108	0.0139
158	0.0249	0.0109	0.0140
159	0.0253	0.0111	0.0143
160	0.0256	0.0112	0.0144
161	0.0261	0.0114	0.0147
162	0.0264	0.0115	0.0149
163	0.0270	0.0118	0.0152
164	0.0273	0.0119	0.0154
165	0.0279	0.0122	0.0157
166	0.0282	0.0123	0.0159
167	0.0289	0.0126	0.0163
168	0.0293	0.0128	0.0165
169	0.0301	0.0131	0.0170
170	0.0305	0.0133	0.0172
171	0.0314	0.0137	0.0177
172	0.0319	0.0139	0.0180
173	0.0330	0.0144	0.0186
174	0.0335	0.0146	0.0189
175	0.0347	0.0152	0.0196
176	0.0354	0.0155	0.0199
177	0.0368	0.0161	0.0207
178	0.0376	0.0164	0.0212
179	0.0394	0.0172	0.0222
180	0.0403	0.0176	0.0227
181	0.0425	0.0186	0.0240
182	0.0438	0.0191	0.0247
183	0.0466	0.0204	0.0263
184	0.0483	0.0211	0.0272
185	0.0410	0.0179	0.0231
186	0.0433	0.0189	0.0244
187	0.0492	0.0215	0.0277
188	0.0531	0.0232	0.0299
189	0.0640	0.0279	0.0360
190	0.0722	0.0315	0.0407
191	0.1032	0.0364	0.0668
192	0.1419	0.0364	0.1055
193	0.4441	0.0364	0.4077
194	0.0840	0.0364	0.0477
195	0.0578	0.0253	0.0326
196	0.0460	0.0201	0.0259
197	0.0501	0.0219	0.0282
198	0.0451	0.0197	0.0254
199	0.0414	0.0181	0.0233
200	0.0385	0.0168	0.0217
201	0.0361	0.0158	0.0203
202	0.0341	0.0149	0.0192
203	0.0324	0.0142	0.0183
204	0.0310	0.0135	0.0174
205	0.0297	0.0130	0.0167
206	0.0286	0.0125	0.0161
207	0.0276	0.0120	0.0155
208	0.0267	0.0116	0.0150
209	0.0258	0.0113	0.0146
210	0.0251	0.0110	0.0141

211	0.0244	0.0107	0.0138
212	0.0238	0.0104	0.0134
213	0.0232	0.0101	0.0131
214	0.0227	0.0099	0.0128
215	0.0222	0.0097	0.0125
216	0.0217	0.0095	0.0122
217	0.0208	0.0091	0.0117
218	0.0203	0.0089	0.0115
219	0.0200	0.0087	0.0112
220	0.0196	0.0086	0.0110
221	0.0192	0.0084	0.0108
222	0.0189	0.0083	0.0106
223	0.0186	0.0081	0.0105
224	0.0183	0.0080	0.0103
225	0.0180	0.0079	0.0101
226	0.0177	0.0077	0.0100
227	0.0175	0.0076	0.0098
228	0.0172	0.0075	0.0097
229	0.0170	0.0074	0.0096
230	0.0167	0.0073	0.0094
231	0.0165	0.0072	0.0093
232	0.0163	0.0071	0.0092
233	0.0161	0.0070	0.0091
234	0.0159	0.0069	0.0090
235	0.0157	0.0069	0.0089
236	0.0155	0.0068	0.0088
237	0.0154	0.0067	0.0087
238	0.0152	0.0066	0.0086
239	0.0150	0.0066	0.0085
240	0.0149	0.0065	0.0084
241	0.0147	0.0064	0.0083
242	0.0146	0.0064	0.0082
243	0.0144	0.0063	0.0081
244	0.0143	0.0062	0.0080
245	0.0141	0.0062	0.0080
246	0.0140	0.0061	0.0079
247	0.0139	0.0061	0.0078
248	0.0137	0.0060	0.0077
249	0.0136	0.0059	0.0077
250	0.0135	0.0059	0.0076
251	0.0134	0.0058	0.0075
252	0.0133	0.0058	0.0075
253	0.0132	0.0057	0.0074
254	0.0130	0.0057	0.0074
255	0.0129	0.0057	0.0073
256	0.0128	0.0056	0.0072
257	0.0127	0.0056	0.0072
258	0.0126	0.0055	0.0071
259	0.0125	0.0055	0.0071
260	0.0125	0.0054	0.0070
261	0.0124	0.0054	0.0070
262	0.0123	0.0054	0.0069
263	0.0122	0.0053	0.0069
264	0.0121	0.0053	0.0068
265	0.0120	0.0052	0.0068
266	0.0119	0.0052	0.0067
267	0.0119	0.0052	0.0067
268	0.0118	0.0051	0.0066
269	0.0117	0.0051	0.0066

270	0.0116	0.0051	0.0065
271	0.0115	0.0050	0.0065
272	0.0115	0.0050	0.0065
273	0.0114	0.0050	0.0064
274	0.0113	0.0049	0.0064
275	0.0113	0.0049	0.0063
276	0.0112	0.0049	0.0063
277	0.0111	0.0049	0.0063
278	0.0111	0.0048	0.0062
279	0.0110	0.0048	0.0062
280	0.0109	0.0048	0.0062
281	0.0109	0.0047	0.0061
282	0.0108	0.0047	0.0061
283	0.0107	0.0047	0.0061
284	0.0107	0.0047	0.0060
285	0.0106	0.0046	0.0060
286	0.0106	0.0046	0.0060
287	0.0105	0.0046	0.0059
288	0.0105	0.0046	0.0059

Total soil rain loss = 2.43(In)
Total effective rainfall = 3.57(In)
Peak flow rate in flood hydrograph = 4.15(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0000	0.00	Q				
0+10	0.0002	0.02	Q				
0+15	0.0004	0.04	Q				
0+20	0.0009	0.07	Q				
0+25	0.0017	0.11	Q				
0+30	0.0027	0.14	Q				
0+35	0.0038	0.16	Q				
0+40	0.0050	0.17	Q				
0+45	0.0062	0.18	Q				
0+50	0.0076	0.19	Q				
0+55	0.0090	0.20	Q				
1+ 0	0.0104	0.21	Q				
1+ 5	0.0118	0.21	Q				
1+10	0.0133	0.22	Q				
1+15	0.0148	0.22	Q				
1+20	0.0164	0.22	Q				
1+25	0.0179	0.23	Q				
1+30	0.0195	0.23	Q				
1+35	0.0211	0.23	Q				
1+40	0.0228	0.24	Q				
1+45	0.0244	0.24	Q				
1+50	0.0261	0.24	QV				
1+55	0.0278	0.24	QV				
2+ 0	0.0295	0.25	QV				
2+ 5	0.0312	0.25	QV				

2+10	0.0329	0.25	QV	|	|	|	|
2+15	0.0346	0.25	|Q	|	|	|	|
2+20	0.0364	0.25	|Q	|	|	|	|
2+25	0.0381	0.25	|Q	|	|	|	|
2+30	0.0399	0.26	|Q	|	|	|	|
2+35	0.0417	0.26	|Q	|	|	|	|
2+40	0.0434	0.26	|Q	|	|	|	|
2+45	0.0452	0.26	|Q	|	|	|	|
2+50	0.0470	0.26	|Q	|	|	|	|
2+55	0.0489	0.26	|Q	|	|	|	|
3+ 0	0.0507	0.26	|Q	|	|	|	|
3+ 5	0.0525	0.27	|QV	|	|	|	|
3+10	0.0544	0.27	|QV	|	|	|	|
3+15	0.0562	0.27	|QV	|	|	|	|
3+20	0.0581	0.27	|QV	|	|	|	|
3+25	0.0599	0.27	|QV	|	|	|	|
3+30	0.0618	0.27	|QV	|	|	|	|
3+35	0.0637	0.27	|QV	|	|	|	|
3+40	0.0655	0.27	|QV	|	|	|	|
3+45	0.0674	0.27	|QV	|	|	|	|
3+50	0.0693	0.27	|QV	|	|	|	|
3+55	0.0712	0.28	|QV	|	|	|	|
4+ 0	0.0731	0.28	|QV	|	|	|	|
4+ 5	0.0750	0.28	|QV	|	|	|	|
4+10	0.0769	0.28	|QV	|	|	|	|
4+15	0.0789	0.28	|Q V	|	|	|	|
4+20	0.0808	0.28	|Q V	|	|	|	|
4+25	0.0827	0.28	|Q V	|	|	|	|
4+30	0.0847	0.28	|Q V	|	|	|	|
4+35	0.0866	0.28	|Q V	|	|	|	|
4+40	0.0886	0.28	|Q V	|	|	|	|
4+45	0.0905	0.28	|Q V	|	|	|	|
4+50	0.0925	0.29	|Q V	|	|	|	|
4+55	0.0945	0.29	|Q V	|	|	|	|
5+ 0	0.0965	0.29	|Q V	|	|	|	|
5+ 5	0.0985	0.29	|Q V	|	|	|	|
5+10	0.1005	0.29	|Q V	|	|	|	|
5+15	0.1025	0.29	|Q V	|	|	|	|
5+20	0.1045	0.29	|Q V	|	|	|	|
5+25	0.1065	0.29	|Q V	|	|	|	|
5+30	0.1085	0.29	|Q V	|	|	|	|
5+35	0.1106	0.30	|Q V	|	|	|	|
5+40	0.1126	0.30	|Q V	|	|	|	|
5+45	0.1146	0.30	|Q V	|	|	|	|
5+50	0.1167	0.30	|Q V	|	|	|	|
5+55	0.1188	0.30	|Q V	|	|	|	|
6+ 0	0.1208	0.30	|Q V	|	|	|	|
6+ 5	0.1229	0.30	|Q V	|	|	|	|
6+10	0.1250	0.30	|Q V	|	|	|	|
6+15	0.1271	0.30	|Q V	|	|	|	|
6+20	0.1292	0.31	|Q V	|	|	|	|
6+25	0.1313	0.31	|Q V	|	|	|	|
6+30	0.1335	0.31	|Q V	|	|	|	|
6+35	0.1356	0.31	|Q V	|	|	|	|
6+40	0.1377	0.31	|Q V	|	|	|	|
6+45	0.1399	0.31	|Q V	|	|	|	|
6+50	0.1421	0.31	|Q V	|	|	|	|
6+55	0.1442	0.32	|Q V	|	|	|	|
7+ 0	0.1464	0.32	|Q V	|	|	|	|

7+ 5	0.1486	0.32	Q V	|	|	|	|
7+10	0.1508	0.32	Q V	|	|	|	|
7+15	0.1530	0.32	Q V	|	|	|	|
7+20	0.1552	0.32	Q V	|	|	|	|
7+25	0.1574	0.32	Q V	|	|	|	|
7+30	0.1597	0.32	Q V	|	|	|	|
7+35	0.1619	0.33	Q V	|	|	|	|
7+40	0.1642	0.33	Q V	|	|	|	|
7+45	0.1665	0.33	Q V	|	|	|	|
7+50	0.1687	0.33	Q V	|	|	|	|
7+55	0.1710	0.33	Q V	|	|	|	|
8+ 0	0.1733	0.33	Q V	|	|	|	|
8+ 5	0.1757	0.34	Q V	|	|	|	|
8+10	0.1780	0.34	Q V	|	|	|	|
8+15	0.1803	0.34	Q V	|	|	|	|
8+20	0.1827	0.34	Q V	|	|	|	|
8+25	0.1850	0.34	Q V	|	|	|	|
8+30	0.1874	0.34	Q V	|	|	|	|
8+35	0.1898	0.35	Q V	|	|	|	|
8+40	0.1922	0.35	Q V	|	|	|	|
8+45	0.1946	0.35	Q V	|	|	|	|
8+50	0.1970	0.35	Q V	|	|	|	|
8+55	0.1994	0.35	Q V	|	|	|	|
9+ 0	0.2019	0.36	Q V	|	|	|	|
9+ 5	0.2044	0.36	Q V	|	|	|	|
9+10	0.2068	0.36	Q V	|	|	|	|
9+15	0.2093	0.36	Q V	|	|	|	|
9+20	0.2118	0.36	Q V	|	|	|	|
9+25	0.2143	0.37	Q V	|	|	|	|
9+30	0.2169	0.37	Q V	|	|	|	|
9+35	0.2194	0.37	Q V	|	|	|	|
9+40	0.2220	0.37	Q V	|	|	|	|
9+45	0.2246	0.37	Q V	|	|	|	|
9+50	0.2272	0.38	Q V	|	|	|	|
9+55	0.2298	0.38	Q V	|	|	|	|
10+ 0	0.2324	0.38	Q V	|	|	|	|
10+ 5	0.2350	0.38	Q V	|	|	|	|
10+10	0.2377	0.39	Q V	|	|	|	|
10+15	0.2404	0.39	Q V	|	|	|	|
10+20	0.2431	0.39	Q V	|	|	|	|
10+25	0.2458	0.39	Q V	|	|	|	|
10+30	0.2485	0.40	Q V	|	|	|	|
10+35	0.2513	0.40	Q V	|	|	|	|
10+40	0.2540	0.40	Q V	|	|	|	|
10+45	0.2568	0.41	Q V	|	|	|	|
10+50	0.2596	0.41	Q V	|	|	|	|
10+55	0.2625	0.41	Q V	|	|	|	|
11+ 0	0.2653	0.41	Q V	|	|	|	|
11+ 5	0.2682	0.42	Q V	|	|	|	|
11+10	0.2711	0.42	Q V	|	|	|	|
11+15	0.2740	0.42	Q V	|	|	|	|
11+20	0.2769	0.43	Q V	|	|	|	|
11+25	0.2799	0.43	Q V	|	|	|	|
11+30	0.2829	0.43	Q V	|	|	|	|
11+35	0.2859	0.44	Q V	|	|	|	|
11+40	0.2889	0.44	Q V	|	|	|	|
11+45	0.2920	0.44	Q V	|	|	|	|
11+50	0.2951	0.45	Q V	|	|	|	|
11+55	0.2982	0.45	Q V	|	|	|	|

12+ 0	0.3014	0.46	Q	V		
12+ 5	0.3045	0.46	Q	V		
12+10	0.3078	0.47	Q	V		
12+15	0.3110	0.47	Q	V		
12+20	0.3143	0.48	Q	V		
12+25	0.3176	0.48	Q	V		
12+30	0.3210	0.49	Q	V		
12+35	0.3244	0.50	Q	V		
12+40	0.3279	0.50	Q	V		
12+45	0.3314	0.51	Q	V		
12+50	0.3349	0.51	Q	V		
12+55	0.3385	0.52	Q	V		
13+ 0	0.3421	0.53	Q	V		
13+ 5	0.3458	0.53	Q	V		
13+10	0.3495	0.54	Q	V		
13+15	0.3532	0.55	Q	V		
13+20	0.3570	0.55	Q	V		
13+25	0.3609	0.56	Q	V		
13+30	0.3648	0.57	Q	V		
13+35	0.3688	0.57	Q	V		
13+40	0.3728	0.58	Q	V		
13+45	0.3769	0.59	Q	V		
13+50	0.3810	0.60	Q	V		
13+55	0.3852	0.61	Q	V		
14+ 0	0.3895	0.62	Q	V		
14+ 5	0.3938	0.63	Q	V		
14+10	0.3982	0.64	Q	V		
14+15	0.4027	0.65	Q	V		
14+20	0.4073	0.66	Q	V		
14+25	0.4119	0.68	Q	V		
14+30	0.4167	0.69	Q	V		
14+35	0.4215	0.70	Q	V		
14+40	0.4265	0.72	Q	V		
14+45	0.4315	0.74	Q	V		
14+50	0.4367	0.75	Q	V		
14+55	0.4420	0.77	Q	V		
15+ 0	0.4475	0.79	Q	V		
15+ 5	0.4531	0.82	Q	V		
15+10	0.4589	0.84	Q	V		
15+15	0.4649	0.87	Q	V		
15+20	0.4710	0.90	Q	V		
15+25	0.4774	0.93	Q	V		
15+30	0.4840	0.95	Q	V		
15+35	0.4907	0.97	Q	V		
15+40	0.4975	0.99	Q	V		
15+45	0.5044	1.01	Q	V		
15+50	0.5117	1.06	Q	V		
15+55	0.5196	1.15	Q	V		
16+ 0	0.5287	1.32	Q	V		
16+ 5	0.5414	1.84	Q	V		
16+10	0.5594	2.62	Q	V		
16+15	0.5830	3.43	Q	V		
16+20	0.6108	4.04	Q	V		
16+25	0.6394	4.15	Q	V		
16+30	0.6641	3.58	Q	V		
16+35	0.6833	2.80	Q	V		
16+40	0.6990	2.28	Q	V		
16+45	0.7123	1.92	Q	V		
16+50	0.7242	1.72	Q	V		

16+55	0.7350	1.58	Q		V	
17+ 0	0.7451	1.46	Q		V	
17+ 5	0.7545	1.36	Q		V	
17+10	0.7632	1.27	Q		V	
17+15	0.7714	1.19	Q		V	
17+20	0.7791	1.11	Q		V	
17+25	0.7864	1.07	Q		V	
17+30	0.7934	1.01	Q		V	
17+35	0.7999	0.95	Q		V	
17+40	0.8062	0.91	Q		V	
17+45	0.8121	0.86	Q		V	
17+50	0.8178	0.83	Q		V	
17+55	0.8234	0.80	Q		V	
18+ 0	0.8287	0.78	Q		V	
18+ 5	0.8339	0.75	Q		V	
18+10	0.8388	0.71	Q		V	
18+15	0.8436	0.69	Q		V	
18+20	0.8482	0.67	Q		V	
18+25	0.8526	0.64	Q		V	
18+30	0.8569	0.62	Q		V	
18+35	0.8611	0.60	Q		V	
18+40	0.8651	0.58	Q		V	
18+45	0.8689	0.56	Q		V	
18+50	0.8727	0.55	Q		V	
18+55	0.8764	0.53	Q		V	
19+ 0	0.8800	0.52	Q		V	
19+ 5	0.8835	0.51	Q		V	
19+10	0.8870	0.50	Q		V	
19+15	0.8902	0.47	Q		V	
19+20	0.8932	0.44	Q		V	
19+25	0.8962	0.43	Q		V	
19+30	0.8992	0.43	Q		V	
19+35	0.9021	0.42	Q		V	
19+40	0.9049	0.41	Q		V	
19+45	0.9077	0.41	Q		V	
19+50	0.9105	0.40	Q		V	
19+55	0.9132	0.39	Q		V	
20+ 0	0.9158	0.39	Q		V	
20+ 5	0.9185	0.38	Q		V	
20+10	0.9211	0.38	Q		V	
20+15	0.9237	0.37	Q		V	
20+20	0.9262	0.37	Q		V	
20+25	0.9287	0.36	Q		V	
20+30	0.9312	0.36	Q		V	
20+35	0.9336	0.36	Q		V	
20+40	0.9361	0.35	Q		V	
20+45	0.9385	0.35	Q		V	
20+50	0.9408	0.34	Q		V	
20+55	0.9432	0.34	Q		V	
21+ 0	0.9455	0.34	Q		V	
21+ 5	0.9478	0.33	Q		V	
21+10	0.9501	0.33	Q		V	
21+15	0.9523	0.33	Q		V	
21+20	0.9546	0.32	Q		V	
21+25	0.9568	0.32	Q		V	
21+30	0.9590	0.32	Q		V	
21+35	0.9611	0.32	Q		V	
21+40	0.9633	0.31	Q		V	
21+45	0.9654	0.31	Q		V	

21+50	0.9676	0.31	Q				V
21+55	0.9697	0.31	Q				V
22+ 0	0.9718	0.30	Q				V
22+ 5	0.9738	0.30	Q				V
22+10	0.9759	0.30	Q				V
22+15	0.9779	0.30	Q				V
22+20	0.9799	0.29	Q				V
22+25	0.9819	0.29	Q				V
22+30	0.9839	0.29	Q				V
22+35	0.9859	0.29	Q				V
22+40	0.9879	0.29	Q				V
22+45	0.9898	0.28	Q				V
22+50	0.9918	0.28	Q				V
22+55	0.9937	0.28	Q				V
23+ 0	0.9956	0.28	Q				V
23+ 5	0.9975	0.28	Q				V
23+10	0.9994	0.27	Q				V
23+15	1.0013	0.27	Q				V
23+20	1.0031	0.27	Q				V
23+25	1.0050	0.27	Q				V
23+30	1.0068	0.27	Q				V
23+35	1.0086	0.27	Q				V
23+40	1.0104	0.26	Q				V
23+45	1.0123	0.26	Q				V
23+50	1.0140	0.26	Q				V
23+55	1.0158	0.26	Q				V
24+ 0	1.0176	0.26	Q				V
24+ 5	1.0193	0.25	Q				V
24+10	1.0210	0.24	Q				V
24+15	1.0224	0.21	Q				V
24+20	1.0237	0.18	Q				V
24+25	1.0246	0.14	Q				V
24+30	1.0254	0.11	Q				V
24+35	1.0260	0.09	Q				V
24+40	1.0265	0.08	Q				V
24+45	1.0270	0.07	Q				V
24+50	1.0274	0.06	Q				V
24+55	1.0278	0.05	Q				V
25+ 0	1.0281	0.05	Q				V
25+ 5	1.0284	0.04	Q				V
25+10	1.0286	0.04	Q				V
25+15	1.0288	0.03	Q				V
25+20	1.0290	0.03	Q				V
25+25	1.0292	0.03	Q				V
25+30	1.0294	0.02	Q				V
25+35	1.0295	0.02	Q				V
25+40	1.0296	0.02	Q				V
25+45	1.0297	0.02	Q				V
25+50	1.0298	0.01	Q				V
25+55	1.0299	0.01	Q				V
26+ 0	1.0300	0.01	Q				V
26+ 5	1.0301	0.01	Q				V
26+10	1.0301	0.01	Q				V
26+15	1.0302	0.01	Q				V
26+20	1.0302	0.01	Q				V
26+25	1.0303	0.01	Q				V
26+30	1.0303	0.00	Q				V
26+35	1.0303	0.00	Q				V
26+40	1.0304	0.00	Q				V

```
   26+45       1.0304      0.00  Q          |          |          |         V|
   26+50       1.0304      0.00  Q          |          |          |         V|
   26+55       1.0304      0.00  Q          |          |          |         V|
   27+ 0       1.0304      0.00  Q          |          |          |         V|
   27+ 5       1.0304      0.00  Q          |          |          |         V|
   27+10       1.0304      0.00  Q          |          |          |          V
-------------------------------------------------------------------------------
```

APPENDIX C: POST-PROJECT ONSITE UNIT HYDROGRAPH CALCULATIONS

APPENDIX C.1: POST-PROJECT UNIT HYDROGRAPH PARAMETERS TABLE

254.24 EUCLID MIXED USE SPECIFIC PLAN

Post-Project Unit Hydrograph Input Parameters

Area	Area (Acres)	AP	RI	Tc (min)	Tc (hours)
A1	4.61	0.1	56	12.03	0.201
A2	6.51	0.1	56	9.60	0.160
A3	4.78	0.1	56	8.11	0.135
A4	7.83	0.1	56	14.02	0.234
A5	2.71	0.1	56	8.92	0.149
A6	5.22	0.1	56	10.82	0.180
A7	2.25	0.1	56	8.07	0.135
B1	4.26	0.1	56	7.84	0.131
B2	1.61	0.1	56	5.68	0.095
B3	5.30	0.1	56	9.36	0.156
B4	3.16	0.1	56	7.20	0.120
B5	1.86	0.1	56	5.56	0.093
C1	4.98	0.1	56	8.40	0.140
C2	3.47	0.1	56	11.29	0.188

APPENDIX C.2 UNIT HYDROGRAPH ANALYSIS, AREAS "A"

U n i t H y d r o g r a p h A n a l y s i s

Copyright (c) CIVILCADD/CIVILDESIGN, 1989 - 2014, Version 9.0

Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA A1
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
4.61	1	1.20
Rainfall data for year 100		
4.61	6	3.00
Rainfall data for year 100		
4.61	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	4.61	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.46	0.100	56.0	56.0	7.86	0.266
4.15	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.201 (hours)
++
Watershed area = 4.61(Ac.)
Catchment Lag time = 0.161 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 51.8242
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 4.61(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 55.75 (CFS))	
1	4.903	2.734
2	31.878	15.039
3	71.604	22.148
4	91.335	11.001
5	97.505	3.440
6	98.931	0.795
7	100.000	0.596

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032

4	0.7731	0.0840
5	0.8453	0.0722
6	0.9092	0.0639
7	0.9671	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1154	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3448	0.0466
16	1.3900	0.0451
17	1.4337	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0130	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230

63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161

122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132

181	4.7565	0.0132
182	4.7697	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114

240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094

6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094
8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113

65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114
67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154

124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156
126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0404	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390

183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430
185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0639	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0970
192	0.1419	0.0061	0.1358
193	0.4440	0.0061	0.4379
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131

242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128
244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 12.93(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0002	0.03	Q				
0+10	0.0013	0.17	Q				
0+15	0.0039	0.37	Q				
0+20	0.0071	0.47	Q				
0+25	0.0106	0.51	VQ				
0+30	0.0142	0.52	VQ				
0+35	0.0178	0.52	VQ				
0+40	0.0214	0.52	VQ				
0+45	0.0250	0.53	VQ				
0+50	0.0287	0.53	VQ				
0+55	0.0323	0.53	VQ				
1+ 0	0.0359	0.53	VQ				
1+ 5	0.0396	0.53	VQ				
1+10	0.0433	0.53	VQ				
1+15	0.0470	0.53	VQ				
1+20	0.0506	0.54	VQ				
1+25	0.0544	0.54	|Q				
1+30	0.0581	0.54	|Q				
1+35	0.0618	0.54	|Q				
1+40	0.0655	0.54	|Q				
1+45	0.0693	0.54	|Q				
1+50	0.0730	0.55	|Q				
1+55	0.0768	0.55	|Q				
2+ 0	0.0806	0.55	|Q				
2+ 5	0.0844	0.55	|Q				
2+10	0.0882	0.55	|Q				
2+15	0.0920	0.55	|Q				
2+20	0.0958	0.55	|Q				
2+25	0.0996	0.56	|Q				
2+30	0.1035	0.56	|Q				
2+35	0.1073	0.56	|QV				
2+40	0.1112	0.56	|QV				
2+45	0.1151	0.56	|QV				
2+50	0.1190	0.57	|QV				
2+55	0.1229	0.57	|QV				
3+ 0	0.1268	0.57	|QV				
3+ 5	0.1307	0.57	|QV				
3+10	0.1347	0.57	|QV				
3+15	0.1386	0.57	|QV				
3+20	0.1426	0.58	|QV				
3+25	0.1466	0.58	|QV				
3+30	0.1506	0.58	|QV				
3+35	0.1546	0.58	|QV				
3+40	0.1586	0.58	|Q V				
3+45	0.1626	0.59	|Q V				
3+50	0.1667	0.59	|Q V				
3+55	0.1707	0.59	|Q V				
4+ 0	0.1748	0.59	|Q V				
4+ 5	0.1789	0.59	|Q V				
4+10	0.1830	0.60	|Q V				
4+15	0.1871	0.60	|Q V				
4+20	0.1912	0.60	|Q V				
4+25	0.1954	0.60	|Q V				
4+30	0.1995	0.60	|Q V				
4+35	0.2037	0.61	|Q V				
4+40	0.2079	0.61	|Q V				

4+45	0.2121	0.61	Q V	|	|	|	|
4+50	0.2163	0.61	Q V	|	|	|	|
4+55	0.2206	0.62	Q V	|	|	|	|
5+ 0	0.2248	0.62	Q V	|	|	|	|
5+ 5	0.2291	0.62	Q V	|	|	|	|
5+10	0.2334	0.62	Q V	|	|	|	|
5+15	0.2377	0.62	Q V	|	|	|	|
5+20	0.2420	0.63	Q V	|	|	|	|
5+25	0.2463	0.63	Q V	|	|	|	|
5+30	0.2507	0.63	Q V	|	|	|	|
5+35	0.2550	0.63	Q V	|	|	|	|
5+40	0.2594	0.64	Q V	|	|	|	|
5+45	0.2638	0.64	Q V	|	|	|	|
5+50	0.2682	0.64	Q V	|	|	|	|
5+55	0.2727	0.64	Q V	|	|	|	|
6+ 0	0.2771	0.65	Q V	|	|	|	|
6+ 5	0.2816	0.65	Q V	|	|	|	|
6+10	0.2861	0.65	Q V	|	|	|	|
6+15	0.2906	0.65	Q V	|	|	|	|
6+20	0.2951	0.66	Q V	|	|	|	|
6+25	0.2997	0.66	Q V	|	|	|	|
6+30	0.3042	0.66	Q V	|	|	|	|
6+35	0.3088	0.67	Q V	|	|	|	|
6+40	0.3134	0.67	Q V	|	|	|	|
6+45	0.3181	0.67	Q V	|	|	|	|
6+50	0.3227	0.67	Q V	|	|	|	|
6+55	0.3274	0.68	Q V	|	|	|	|
7+ 0	0.3321	0.68	Q V	|	|	|	|
7+ 5	0.3368	0.68	Q V	|	|	|	|
7+10	0.3415	0.69	Q V	|	|	|	|
7+15	0.3463	0.69	Q V	|	|	|	|
7+20	0.3510	0.69	Q V	|	|	|	|
7+25	0.3558	0.70	Q V	|	|	|	|
7+30	0.3607	0.70	Q V	|	|	|	|
7+35	0.3655	0.70	Q V	|	|	|	|
7+40	0.3704	0.71	Q V	|	|	|	|
7+45	0.3753	0.71	Q V	|	|	|	|
7+50	0.3802	0.71	Q V	|	|	|	|
7+55	0.3851	0.72	Q V	|	|	|	|
8+ 0	0.3901	0.72	Q V	|	|	|	|
8+ 5	0.3951	0.72	Q V	|	|	|	|
8+10	0.4001	0.73	Q V	|	|	|	|
8+15	0.4051	0.73	Q V	|	|	|	|
8+20	0.4102	0.74	Q V	|	|	|	|
8+25	0.4153	0.74	Q V	|	|	|	|
8+30	0.4204	0.74	Q V	|	|	|	|
8+35	0.4256	0.75	Q V	|	|	|	|
8+40	0.4308	0.75	Q V	|	|	|	|
8+45	0.4360	0.76	Q V	|	|	|	|
8+50	0.4412	0.76	Q V	|	|	|	|
8+55	0.4465	0.76	Q V	|	|	|	|
9+ 0	0.4518	0.77	Q V	|	|	|	|
9+ 5	0.4571	0.77	Q V	|	|	|	|
9+10	0.4625	0.78	Q V	|	|	|	|
9+15	0.4678	0.78	Q V	|	|	|	|
9+20	0.4733	0.79	Q V	|	|	|	|
9+25	0.4787	0.79	Q V	|	|	|	|
9+30	0.4842	0.80	Q V	|	|	|	|
9+35	0.4897	0.80	Q V	|	|	|	|

9+40	0.4953	0.81	Q V				
9+45	0.5009	0.81	Q V				
9+50	0.5065	0.82	Q V				
9+55	0.5122	0.82	Q V				
10+ 0	0.5179	0.83	Q V				
10+ 5	0.5237	0.83	Q V				
10+10	0.5294	0.84	Q V				
10+15	0.5353	0.85	Q V				
10+20	0.5411	0.85	Q V				
10+25	0.5470	0.86	Q V				
10+30	0.5530	0.86	Q V				
10+35	0.5590	0.87	Q V				
10+40	0.5650	0.88	Q V				
10+45	0.5711	0.88	Q V				
10+50	0.5772	0.89	Q V				
10+55	0.5834	0.90	Q V				
11+ 0	0.5896	0.90	Q V				
11+ 5	0.5959	0.91	Q V				
11+10	0.6022	0.92	Q V				
11+15	0.6086	0.93	Q V				
11+20	0.6151	0.93	Q V				
11+25	0.6216	0.94	Q V				
11+30	0.6281	0.95	Q V				
11+35	0.6347	0.96	Q V				
11+40	0.6414	0.97	Q V				
11+45	0.6481	0.98	Q V				
11+50	0.6549	0.99	Q V				
11+55	0.6618	1.00	Q V				
12+ 0	0.6687	1.01	Q V				
12+ 5	0.6757	1.02	Q V				
12+10	0.6828	1.03	Q V				
12+15	0.6900	1.05	Q V				
12+20	0.6974	1.07	Q V				
12+25	0.7049	1.08	Q V				
12+30	0.7124	1.09	Q V				
12+35	0.7200	1.11	Q V				
12+40	0.7277	1.12	Q V				
12+45	0.7355	1.13	Q V				
12+50	0.7434	1.15	Q V				
12+55	0.7514	1.16	Q V				
13+ 0	0.7595	1.17	Q V				
13+ 5	0.7676	1.19	Q V				
13+10	0.7759	1.20	Q V				
13+15	0.7843	1.22	Q V				
13+20	0.7929	1.24	Q V				
13+25	0.8015	1.26	Q V				
13+30	0.8103	1.27	Q V				
13+35	0.8192	1.29	Q V				
13+40	0.8282	1.31	Q V				
13+45	0.8374	1.34	Q V				
13+50	0.8468	1.36	Q V				
13+55	0.8563	1.38	Q V				
14+ 0	0.8660	1.41	Q V				
14+ 5	0.8759	1.43	Q V				
14+10	0.8859	1.46	Q V				
14+15	0.8962	1.49	Q V				
14+20	0.9067	1.52	Q V				
14+25	0.9174	1.56	Q V				
14+30	0.9283	1.59	Q V				

14+35	0.9396	1.63	Q			V			
14+40	0.9511	1.67	Q			V			
14+45	0.9629	1.72	Q			V			
14+50	0.9751	1.77	Q			V			
14+55	0.9876	1.82	Q			V			
15+ 0	1.0006	1.88	Q			V			
15+ 5	1.0140	1.95	Q			V			
15+10	1.0279	2.02	Q			V			
15+15	1.0424	2.10	Q			V			
15+20	1.0575	2.19	Q			V			
15+25	1.0732	2.28	Q			V			
15+30	1.0887	2.25	Q			V			
15+35	1.1037	2.18	Q			V			
15+40	1.1192	2.25	Q			V			
15+45	1.1360	2.45	Q			V			
15+50	1.1551	2.77	Q			V			
15+55	1.1776	3.26	Q			V			
16+ 0	1.2062	4.15	Q			V			
16+ 5	1.2501	6.38		Q		V			
16+10	1.3270	11.17				Q V			
16+15	1.4161	12.93				Q V			
16+20	1.4713	8.02			Q	V			
16+25	1.5017	4.41	Q			V			
16+30	1.5220	2.96	Q			V			
16+35	1.5403	2.65	Q			V			
16+40	1.5558	2.26	Q			V			
16+45	1.5701	2.08	Q			V			
16+50	1.5834	1.93	Q			V			
16+55	1.5959	1.81	Q			V			
17+ 0	1.6077	1.71	Q			V			
17+ 5	1.6188	1.62	Q			V			
17+10	1.6295	1.55	Q			V			
17+15	1.6397	1.48	Q			V			
17+20	1.6495	1.43	Q			V			
17+25	1.6590	1.37	Q			V			
17+30	1.6681	1.33	Q			V			
17+35	1.6770	1.29	Q			V			
17+40	1.6856	1.25	Q			V			
17+45	1.6940	1.22	Q			V			
17+50	1.7021	1.18	Q			V			
17+55	1.7101	1.15	Q			V			
18+ 0	1.7178	1.13	Q			V			
18+ 5	1.7254	1.10	Q			V			
18+10	1.7328	1.07	Q			V			
18+15	1.7400	1.04	Q			V			
18+20	1.7469	1.01	Q			V			
18+25	1.7538	0.99	Q			V			
18+30	1.7605	0.97	Q			V			
18+35	1.7671	0.96	Q			V			
18+40	1.7735	0.94	Q			V			
18+45	1.7799	0.92	Q			V			
18+50	1.7862	0.91	Q			V			
18+55	1.7923	0.89	Q			V			
19+ 0	1.7984	0.88	Q			V			
19+ 5	1.8044	0.87	Q			V			
19+10	1.8103	0.86	Q			V			
19+15	1.8161	0.84	Q			V			
19+20	1.8218	0.83	Q			V			
19+25	1.8275	0.82	Q			V			

19+30	1.8331	0.81	Q				V
19+35	1.8386	0.80	Q				V
19+40	1.8440	0.79	Q				V
19+45	1.8494	0.78	Q				V
19+50	1.8547	0.77	Q				V
19+55	1.8600	0.76	Q				V
20+ 0	1.8652	0.75	Q				V
20+ 5	1.8703	0.75	Q				V
20+10	1.8754	0.74	Q				V
20+15	1.8804	0.73	Q				V
20+20	1.8854	0.72	Q				V
20+25	1.8903	0.72	Q				V
20+30	1.8952	0.71	Q				V
20+35	1.9001	0.70	Q				V
20+40	1.9049	0.70	Q				V
20+45	1.9096	0.69	Q				V
20+50	1.9143	0.68	Q				V
20+55	1.9190	0.68	Q				V
21+ 0	1.9236	0.67	Q				V
21+ 5	1.9282	0.66	Q				V
21+10	1.9327	0.66	Q				V
21+15	1.9372	0.65	Q				V
21+20	1.9417	0.65	Q				V
21+25	1.9461	0.64	Q				V
21+30	1.9505	0.64	Q				V
21+35	1.9549	0.63	Q				V
21+40	1.9592	0.63	Q				V
21+45	1.9635	0.62	Q				V
21+50	1.9677	0.62	Q				V
21+55	1.9720	0.61	Q				V
22+ 0	1.9762	0.61	Q				V
22+ 5	1.9803	0.61	Q				V
22+10	1.9845	0.60	Q				V
22+15	1.9886	0.60	Q				V
22+20	1.9927	0.59	Q				V
22+25	1.9967	0.59	Q				V
22+30	2.0008	0.58	Q				V
22+35	2.0048	0.58	Q				V
22+40	2.0087	0.58	Q				V
22+45	2.0127	0.57	Q				V
22+50	2.0166	0.57	Q				V
22+55	2.0205	0.57	Q				V
23+ 0	2.0244	0.56	Q				V
23+ 5	2.0282	0.56	Q				V
23+10	2.0321	0.56	Q				V
23+15	2.0359	0.55	Q				V
23+20	2.0397	0.55	Q				V
23+25	2.0434	0.55	Q				V
23+30	2.0472	0.54	Q				V
23+35	2.0509	0.54	Q				V
23+40	2.0546	0.54	Q				V
23+45	2.0583	0.53	Q				V
23+50	2.0619	0.53	Q				V
23+55	2.0655	0.53	Q				V
24+ 0	2.0692	0.53	Q				V
24+ 5	2.0726	0.50	Q				V
24+10	2.0750	0.36	Q				V
24+15	2.0761	0.15	Q				V
24+20	2.0764	0.05	Q				V

```
   24+25       2.0765      0.01  Q          |          |          |         V|
   24+30       2.0765      0.01  Q          |          |          |          V
-------------------------------------------------------------------------------
```

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA A2
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
6.51	1	1.20
Rainfall data for year 100		
6.51	6	3.00
Rainfall data for year 100		
6.51	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	6.51	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.65	0.100	56.0	56.0	7.86	0.266
5.86	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.160 (hours)
++
Watershed area = 6.51(Ac.)
Catchment Lag time = 0.128 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 65.1042
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 6.51(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 78.73 (CFS))	
1	7.634	6.010
2	47.879	31.686
3	85.995	30.008
4	97.049	8.703
5	99.073	1.594
6	100.000	0.729

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6890	0.1032
4	0.7730	0.0840

5	0.8452	0.0722
6	0.9092	0.0639
7	0.9670	0.0578
8	1.0200	0.0531
9	1.0692	0.0492
10	1.1153	0.0460
11	1.1586	0.0433
12	1.1996	0.0410
13	1.2498	0.0501
14	1.2981	0.0483
15	1.3447	0.0466
16	1.3899	0.0451
17	1.4336	0.0438
18	1.4762	0.0425
19	1.5176	0.0414
20	1.5580	0.0404
21	1.5973	0.0394
22	1.6358	0.0385
23	1.6734	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8165	0.0347
28	1.8506	0.0341
29	1.8842	0.0335
30	1.9171	0.0330
31	1.9495	0.0324
32	1.9815	0.0319
33	2.0129	0.0314
34	2.0439	0.0310
35	2.0744	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228

64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9353	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	2.9999	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0821	0.0203
77	3.1024	0.0202
78	3.1224	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2595	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3540	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4640	0.0181
97	3.4820	0.0180
98	3.4999	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6911	0.0170
110	3.7080	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160

123	3.9210	0.0160
124	3.9369	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	3.9999	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0465	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1230	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1832	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2719	0.0147
147	4.2865	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3588	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4016	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4440	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.4999	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132

182	4.7696	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8733	0.0128
191	4.8861	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9370	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	4.9999	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2914	0.0118
225	5.3032	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3618	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4657	0.0114
240	5.4772	0.0114

241	5.4886	0.0114
242	5.4999	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6457	0.0111
256	5.6568	0.0111
257	5.6678	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9476	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094

7	0.0106	0.0012	0.0094
8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114

66	0.0128	0.0014	0.0114
67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155

125	0.0175	0.0019	0.0156
126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0404	0.0044	0.0360
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0416

184	0.0483	0.0053	0.0430
185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0639	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0970
192	0.1419	0.0061	0.1357
193	0.4440	0.0061	0.4379
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130

243	0.0144	0.0016	0.0128
244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 19.41(CFS)

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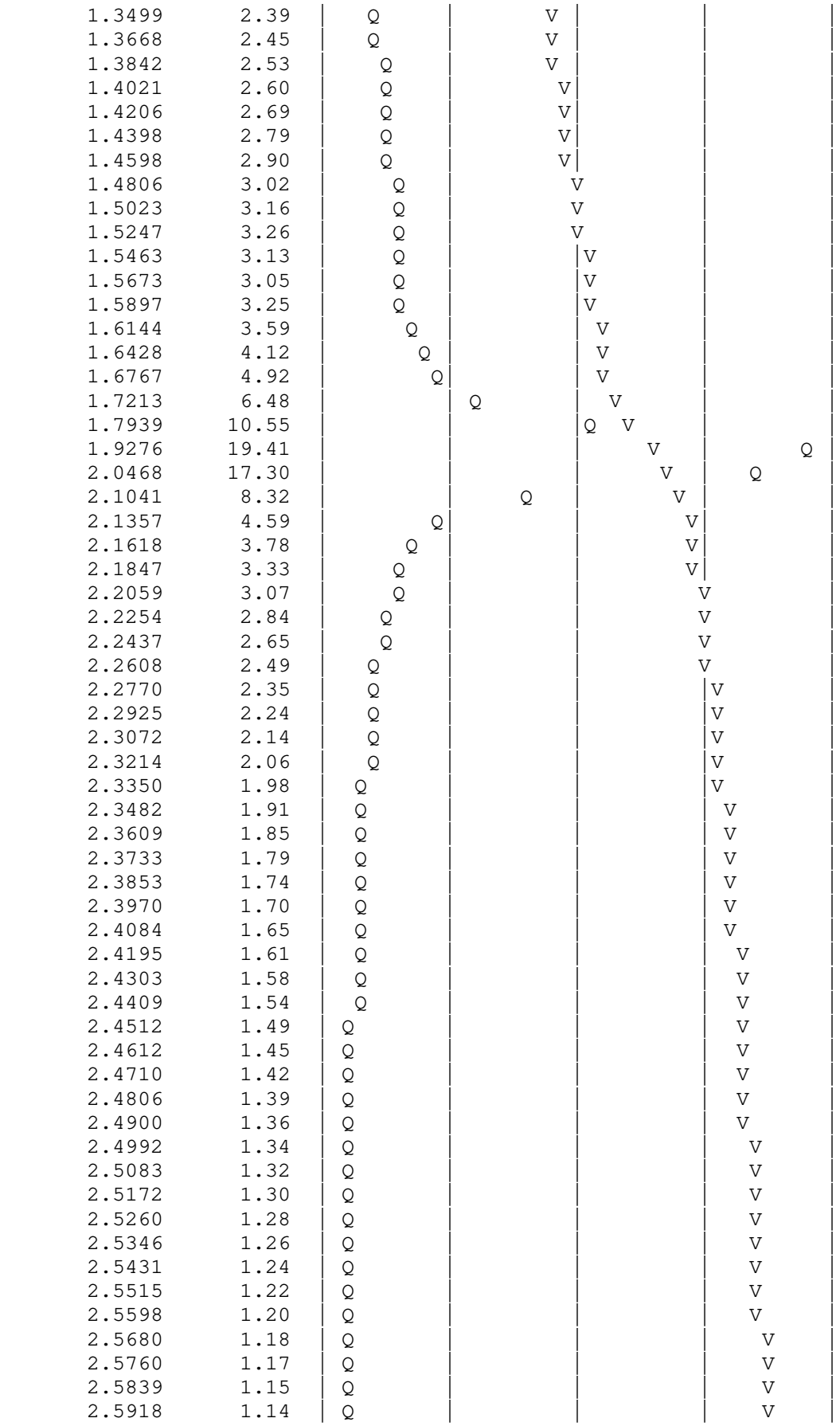
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0004	0.06	Q				
0+10	0.0028	0.35	Q				
0+15	0.0071	0.63	VQ				
0+20	0.0120	0.71	VQ				
0+25	0.0171	0.73	VQ				
0+30	0.0221	0.74	VQ				
0+35	0.0272	0.74	VQ				
0+40	0.0323	0.74	VQ				
0+45	0.0375	0.74	VQ				
0+50	0.0426	0.75	VQ				
0+55	0.0477	0.75	VQ				
1+ 0	0.0529	0.75	VQ				
1+ 5	0.0581	0.75	VQ				
1+10	0.0633	0.75	VQ				
1+15	0.0685	0.76	VQ				
1+20	0.0737	0.76	|Q				
1+25	0.0789	0.76	|Q				
1+30	0.0842	0.76	|Q				
1+35	0.0894	0.76	|Q				
1+40	0.0947	0.77	|Q				
1+45	0.1000	0.77	|Q				
1+50	0.1053	0.77	|Q				
1+55	0.1106	0.77	|Q				
2+ 0	0.1160	0.78	|Q				
2+ 5	0.1213	0.78	|Q				
2+10	0.1267	0.78	|Q				
2+15	0.1321	0.78	|Q				
2+20	0.1375	0.78	|Q				
2+25	0.1429	0.79	|Q				
2+30	0.1484	0.79	|QV				
2+35	0.1538	0.79	|QV				
2+40	0.1593	0.79	|QV				
2+45	0.1648	0.80	|QV				
2+50	0.1703	0.80	|QV				
2+55	0.1758	0.80	|QV				
3+ 0	0.1813	0.80	|QV				
3+ 5	0.1869	0.81	|QV				
3+10	0.1925	0.81	|QV				
3+15	0.1981	0.81	|QV				
3+20	0.2037	0.81	|QV				
3+25	0.2093	0.82	|QV				
3+30	0.2149	0.82	|QV				
3+35	0.2206	0.82	|Q V				
3+40	0.2263	0.83	|Q V				
3+45	0.2320	0.83	|Q V				
3+50	0.2377	0.83	|Q V				
3+55	0.2435	0.83	|Q V				
4+ 0	0.2492	0.84	|Q V				
4+ 5	0.2550	0.84	|Q V				
4+10	0.2608	0.84	|Q V				
4+15	0.2666	0.85	|Q V				
4+20	0.2725	0.85	|Q V				
4+25	0.2783	0.85	|Q V				
4+30	0.2842	0.85	|Q V				
4+35	0.2901	0.86	|Q V				
4+40	0.2960	0.86	|Q V				
4+45	0.3020	0.86	|Q V				

4+50	0.3080	0.87	Q V			
4+55	0.3140	0.87	Q V			
5+ 0	0.3200	0.87	Q V			
5+ 5	0.3260	0.88	Q V			
5+10	0.3321	0.88	Q V			
5+15	0.3381	0.88	Q V			
5+20	0.3442	0.89	Q V			
5+25	0.3504	0.89	Q V			
5+30	0.3565	0.89	Q V			
5+35	0.3627	0.90	Q V			
5+40	0.3689	0.90	Q V			
5+45	0.3751	0.90	Q V			
5+50	0.3814	0.91	Q V			
5+55	0.3877	0.91	Q V			
6+ 0	0.3940	0.91	Q V			
6+ 5	0.4003	0.92	Q V			
6+10	0.4066	0.92	Q V			
6+15	0.4130	0.93	Q V			
6+20	0.4194	0.93	Q V			
6+25	0.4259	0.93	Q V			
6+30	0.4323	0.94	Q V			
6+35	0.4388	0.94	Q V			
6+40	0.4453	0.95	Q V			
6+45	0.4519	0.95	Q V			
6+50	0.4584	0.95	Q V			
6+55	0.4650	0.96	Q V			
7+ 0	0.4717	0.96	Q V			
7+ 5	0.4783	0.97	Q V			
7+10	0.4850	0.97	Q V			
7+15	0.4918	0.98	Q V			
7+20	0.4985	0.98	Q V			
7+25	0.5053	0.99	Q V			
7+30	0.5121	0.99	Q V			
7+35	0.5190	1.00	Q V			
7+40	0.5259	1.00	Q V			
7+45	0.5328	1.01	Q V			
7+50	0.5398	1.01	Q V			
7+55	0.5467	1.02	Q V			
8+ 0	0.5538	1.02	Q V			
8+ 5	0.5608	1.03	Q V			
8+10	0.5679	1.03	Q V			
8+15	0.5751	1.04	Q V			
8+20	0.5822	1.04	Q V			
8+25	0.5895	1.05	Q V			
8+30	0.5967	1.05	Q V			
8+35	0.6040	1.06	Q V			
8+40	0.6113	1.06	Q V			
8+45	0.6187	1.07	Q V			
8+50	0.6261	1.08	Q V			
8+55	0.6336	1.08	Q V			
9+ 0	0.6411	1.09	Q V			
9+ 5	0.6486	1.10	Q V			
9+10	0.6562	1.10	Q V			
9+15	0.6638	1.11	Q V			
9+20	0.6715	1.11	Q V			
9+25	0.6792	1.12	Q V			
9+30	0.6870	1.13	Q V			
9+35	0.6948	1.14	Q V			
9+40	0.7027	1.14	Q V			

9+45	0.7106	1.15	Q	V			
9+50	0.7186	1.16	Q	V			
9+55	0.7266	1.17	Q	V			
10+ 0	0.7347	1.17	Q	V			
10+ 5	0.7428	1.18	Q	V			
10+10	0.7510	1.19	Q	V			
10+15	0.7593	1.20	Q	V			
10+20	0.7676	1.21	Q	V			
10+25	0.7760	1.21	Q	V			
10+30	0.7844	1.22	Q	V			
10+35	0.7929	1.23	Q	V			
10+40	0.8014	1.24	Q	V			
10+45	0.8101	1.25	Q	V			
10+50	0.8187	1.26	Q	V			
10+55	0.8275	1.27	Q	V			
11+ 0	0.8363	1.28	Q	V			
11+ 5	0.8452	1.29	Q	V			
11+10	0.8542	1.30	Q	V			
11+15	0.8632	1.31	Q	V			
11+20	0.8723	1.32	Q	V			
11+25	0.8815	1.34	Q	V			
11+30	0.8908	1.35	Q	V			
11+35	0.9002	1.36	Q	V			
11+40	0.9096	1.37	Q	V			
11+45	0.9192	1.38	Q	V			
11+50	0.9288	1.40	Q	V			
11+55	0.9385	1.41	Q	V			
12+ 0	0.9483	1.43	Q	V			
12+ 5	0.9583	1.44	Q	V			
12+10	0.9684	1.47	Q	V			
12+15	0.9787	1.50	Q	V			
12+20	0.9892	1.52	Q	V			
12+25	0.9997	1.53	Q	V			
12+30	1.0104	1.55	Q	V			
12+35	1.0212	1.57	Q	V			
12+40	1.0322	1.59	Q	V			
12+45	1.0432	1.61	Q	V			
12+50	1.0544	1.63	Q	V			
12+55	1.0657	1.64	Q	V			
13+ 0	1.0772	1.67	Q	V			
13+ 5	1.0888	1.69	Q	V			
13+10	1.1006	1.71	Q	V			
13+15	1.1126	1.73	Q	V			
13+20	1.1247	1.76	Q	V			
13+25	1.1369	1.78	Q	V			
13+30	1.1494	1.81	Q	V			
13+35	1.1621	1.84	Q	V			
13+40	1.1749	1.87	Q	V			
13+45	1.1880	1.90	Q	V			
13+50	1.2013	1.93	Q	V			
13+55	1.2148	1.96	Q	V			
14+ 0	1.2286	2.00	Q	V			
14+ 5	1.2426	2.04	Q	V			
14+10	1.2570	2.08	Q	V			
14+15	1.2716	2.12	Q	V			
14+20	1.2865	2.17	Q	V			
14+25	1.3018	2.22	Q	V			
14+30	1.3174	2.27	Q	V			
14+35	1.3334	2.33	Q	V			

14+40	1.3499	2.39	
14+45	1.3668	2.45	
14+50	1.3842	2.53	
14+55	1.4021	2.60	
15+ 0	1.4206	2.69	
15+ 5	1.4398	2.79	
15+10	1.4598	2.90	
15+15	1.4806	3.02	
15+20	1.5023	3.16	
15+25	1.5247	3.26	
15+30	1.5463	3.13	
15+35	1.5673	3.05	
15+40	1.5897	3.25	
15+45	1.6144	3.59	
15+50	1.6428	4.12	
15+55	1.6767	4.92	
16+ 0	1.7213	6.48	
16+ 5	1.7939	10.55	
16+10	1.9276	19.41	
16+15	2.0468	17.30	
16+20	2.1041	8.32	
16+25	2.1357	4.59	
16+30	2.1618	3.78	
16+35	2.1847	3.33	
16+40	2.2059	3.07	
16+45	2.2254	2.84	
16+50	2.2437	2.65	
16+55	2.2608	2.49	
17+ 0	2.2770	2.35	
17+ 5	2.2925	2.24	
17+10	2.3072	2.14	
17+15	2.3214	2.06	
17+20	2.3350	1.98	
17+25	2.3482	1.91	
17+30	2.3609	1.85	
17+35	2.3733	1.79	
17+40	2.3853	1.74	
17+45	2.3970	1.70	
17+50	2.4084	1.65	
17+55	2.4195	1.61	
18+ 0	2.4303	1.58	
18+ 5	2.4409	1.54	
18+10	2.4512	1.49	
18+15	2.4612	1.45	
18+20	2.4710	1.42	
18+25	2.4806	1.39	
18+30	2.4900	1.36	
18+35	2.4992	1.34	
18+40	2.5083	1.32	
18+45	2.5172	1.30	
18+50	2.5260	1.28	
18+55	2.5346	1.26	
19+ 0	2.5431	1.24	
19+ 5	2.5515	1.22	
19+10	2.5598	1.20	
19+15	2.5680	1.18	
19+20	2.5760	1.17	
19+25	2.5839	1.15	
19+30	2.5918	1.14	

19+35	2.5995	1.12	Q				V
19+40	2.6072	1.11	Q				V
19+45	2.6147	1.10	Q				V
19+50	2.6222	1.09	Q				V
19+55	2.6296	1.07	Q				V
20+ 0	2.6369	1.06	Q				V
20+ 5	2.6441	1.05	Q				V
20+10	2.6513	1.04	Q				V
20+15	2.6584	1.03	Q				V
20+20	2.6654	1.02	Q				V
20+25	2.6723	1.01	Q				V
20+30	2.6792	1.00	Q				V
20+35	2.6860	0.99	Q				V
20+40	2.6927	0.98	Q				V
20+45	2.6994	0.97	Q				V
20+50	2.7060	0.96	Q				V
20+55	2.7126	0.95	Q				V
21+ 0	2.7191	0.94	Q				V
21+ 5	2.7255	0.94	Q				V
21+10	2.7319	0.93	Q				V
21+15	2.7382	0.92	Q				V
21+20	2.7445	0.91	Q				V
21+25	2.7508	0.91	Q				V
21+30	2.7569	0.90	Q				V
21+35	2.7631	0.89	Q				V
21+40	2.7692	0.88	Q				V
21+45	2.7752	0.88	Q				V
21+50	2.7812	0.87	Q				V
21+55	2.7872	0.86	Q				V
22+ 0	2.7931	0.86	Q				V
22+ 5	2.7990	0.85	Q				V
22+10	2.8048	0.85	Q				V
22+15	2.8106	0.84	Q				V
22+20	2.8163	0.83	Q				V
22+25	2.8220	0.83	Q				V
22+30	2.8277	0.82	Q				V
22+35	2.8333	0.82	Q				V
22+40	2.8389	0.81	Q				V
22+45	2.8445	0.81	Q				V
22+50	2.8500	0.80	Q				V
22+55	2.8555	0.80	Q				V
23+ 0	2.8610	0.79	Q				V
23+ 5	2.8664	0.79	Q				V
23+10	2.8718	0.78	Q				V
23+15	2.8772	0.78	Q				V
23+20	2.8825	0.77	Q				V
23+25	2.8878	0.77	Q				V
23+30	2.8931	0.77	Q				V
23+35	2.8983	0.76	Q				V
23+40	2.9035	0.76	Q				V
23+45	2.9087	0.75	Q				V
23+50	2.9139	0.75	Q				V
23+55	2.9190	0.74	Q				V
24+ 0	2.9241	0.74	Q				V
24+ 5	2.9288	0.68	Q				V
24+10	2.9314	0.38	Q				V
24+15	2.9321	0.10	Q				V
24+20	2.9323	0.02	Q				V
24+25	2.9323	0.01	Q				V

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U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA A3
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
4.78	1	1.20
Rainfall data for year 100		
4.78	6	3.00
Rainfall data for year 100		
4.78	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	4.78	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.48	0.100	56.0	56.0	7.86	0.266
4.30	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.135 (hours)
++
Watershed area = 4.78(Ac.)
Catchment Lag time = 0.108 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 77.1605
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 4.78(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 57.81 (CFS))		
1	10.561	6.105
2	60.970	29.141
3	92.932	18.477
4	98.645	3.303
5	100.000	0.783

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7731	0.0840
5	0.8453	0.0722

6	0.9092	0.0639
7	0.9671	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1154	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3448	0.0466
16	1.3899	0.0451
17	1.4337	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0130	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227

65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9211	0.0160

124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131

183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114

242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094

8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114

67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156

126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0404	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430

185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0639	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0970
192	0.1419	0.0061	0.1358
193	0.4440	0.0061	0.4379
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128

244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 16.12(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

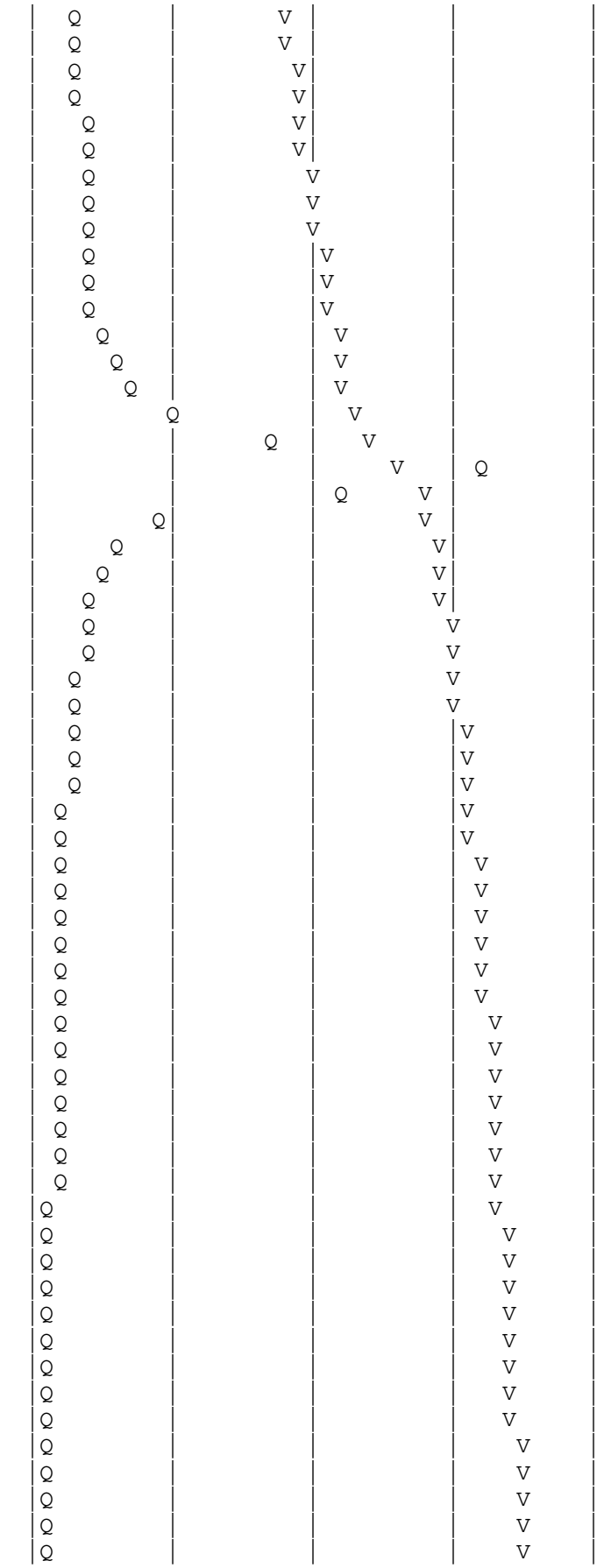
Hydrograph in 5 Minute intervals ((CFS))

Time(h+m) Volume Ac.Ft Q(CFS) 0 5.0 10.0 15.0 20.0

0+ 5	0.0004	0.06	Q				
0+10	0.0026	0.33	Q				
0+15	0.0061	0.50	Q				
0+20	0.0098	0.53	VQ				
0+25	0.0135	0.54	VQ				
0+30	0.0172	0.54	VQ				
0+35	0.0209	0.54	VQ				
0+40	0.0247	0.54	VQ				
0+45	0.0285	0.55	VQ				
0+50	0.0322	0.55	VQ				
0+55	0.0360	0.55	VQ				
1+ 0	0.0398	0.55	VQ				
1+ 5	0.0436	0.55	VQ				
1+10	0.0474	0.55	VQ				
1+15	0.0512	0.56	VQ				
1+20	0.0551	0.56	|Q				
1+25	0.0589	0.56	|Q				
1+30	0.0628	0.56	|Q				
1+35	0.0667	0.56	|Q				
1+40	0.0705	0.56	|Q				
1+45	0.0744	0.56	|Q				
1+50	0.0783	0.57	|Q				
1+55	0.0822	0.57	|Q				
2+ 0	0.0862	0.57	|Q				
2+ 5	0.0901	0.57	|Q				
2+10	0.0940	0.57	|Q				
2+15	0.0980	0.57	|Q				
2+20	0.1020	0.58	|Q				
2+25	0.1060	0.58	|Q				
2+30	0.1100	0.58	|QV				
2+35	0.1140	0.58	|QV				
2+40	0.1180	0.58	|QV				
2+45	0.1220	0.59	|QV				
2+50	0.1261	0.59	|QV				
2+55	0.1301	0.59	|QV				
3+ 0	0.1342	0.59	|QV				
3+ 5	0.1383	0.59	|QV				
3+10	0.1424	0.59	|QV				
3+15	0.1465	0.60	|QV				
3+20	0.1506	0.60	|QV				
3+25	0.1547	0.60	|QV				
3+30	0.1589	0.60	|QV				
3+35	0.1630	0.60	|Q V				
3+40	0.1672	0.61	|Q V				
3+45	0.1714	0.61	|Q V				
3+50	0.1756	0.61	|Q V				
3+55	0.1798	0.61	|Q V				
4+ 0	0.1841	0.61	|Q V				
4+ 5	0.1883	0.62	|Q V				
4+10	0.1926	0.62	|Q V				
4+15	0.1969	0.62	|Q V				
4+20	0.2012	0.62	|Q V				
4+25	0.2055	0.63	|Q V				
4+30	0.2098	0.63	|Q V				
4+35	0.2141	0.63	|Q V				
4+40	0.2185	0.63	|Q V				
4+45	0.2229	0.63	|Q V				
4+50	0.2272	0.64	|Q V				

4+55	0.2316	0.64	Q V	|	|	|	|
5+ 0	0.2361	0.64	Q V	|	|	|	|
5+ 5	0.2405	0.64	Q V	|	|	|	|
5+10	0.2449	0.65	Q V	|	|	|	|
5+15	0.2494	0.65	Q V	|	|	|	|
5+20	0.2539	0.65	Q V	|	|	|	|
5+25	0.2584	0.65	Q V	|	|	|	|
5+30	0.2629	0.66	Q V	|	|	|	|
5+35	0.2675	0.66	Q V	|	|	|	|
5+40	0.2720	0.66	Q V	|	|	|	|
5+45	0.2766	0.66	Q V	|	|	|	|
5+50	0.2812	0.67	Q V	|	|	|	|
5+55	0.2858	0.67	Q V	|	|	|	|
6+ 0	0.2904	0.67	Q V	|	|	|	|
6+ 5	0.2951	0.68	Q V	|	|	|	|
6+10	0.2998	0.68	Q V	|	|	|	|
6+15	0.3044	0.68	Q V	|	|	|	|
6+20	0.3092	0.68	Q V	|	|	|	|
6+25	0.3139	0.69	Q V	|	|	|	|
6+30	0.3186	0.69	Q V	|	|	|	|
6+35	0.3234	0.69	Q V	|	|	|	|
6+40	0.3282	0.70	Q V	|	|	|	|
6+45	0.3330	0.70	Q V	|	|	|	|
6+50	0.3378	0.70	Q V	|	|	|	|
6+55	0.3427	0.70	Q V	|	|	|	|
7+ 0	0.3476	0.71	Q V	|	|	|	|
7+ 5	0.3525	0.71	Q V	|	|	|	|
7+10	0.3574	0.71	Q V	|	|	|	|
7+15	0.3623	0.72	Q V	|	|	|	|
7+20	0.3673	0.72	Q V	|	|	|	|
7+25	0.3723	0.72	Q V	|	|	|	|
7+30	0.3773	0.73	Q V	|	|	|	|
7+35	0.3824	0.73	Q V	|	|	|	|
7+40	0.3874	0.74	Q V	|	|	|	|
7+45	0.3925	0.74	Q V	|	|	|	|
7+50	0.3976	0.74	Q V	|	|	|	|
7+55	0.4028	0.75	Q V	|	|	|	|
8+ 0	0.4079	0.75	Q V	|	|	|	|
8+ 5	0.4131	0.75	Q V	|	|	|	|
8+10	0.4183	0.76	Q V	|	|	|	|
8+15	0.4236	0.76	Q V	|	|	|	|
8+20	0.4289	0.77	Q V	|	|	|	|
8+25	0.4342	0.77	Q V	|	|	|	|
8+30	0.4395	0.77	Q V	|	|	|	|
8+35	0.4449	0.78	Q V	|	|	|	|
8+40	0.4502	0.78	Q V	|	|	|	|
8+45	0.4557	0.79	Q V	|	|	|	|
8+50	0.4611	0.79	Q V	|	|	|	|
8+55	0.4666	0.80	Q V	|	|	|	|
9+ 0	0.4721	0.80	Q V	|	|	|	|
9+ 5	0.4777	0.81	Q V	|	|	|	|
9+10	0.4832	0.81	Q V	|	|	|	|
9+15	0.4889	0.81	Q V	|	|	|	|
9+20	0.4945	0.82	Q V	|	|	|	|
9+25	0.5002	0.82	Q V	|	|	|	|
9+30	0.5059	0.83	Q V	|	|	|	|
9+35	0.5117	0.84	Q V	|	|	|	|
9+40	0.5174	0.84	Q V	|	|	|	|
9+45	0.5233	0.85	Q V	|	|	|	|

9+50	0.5291	0.85	Q V				
9+55	0.5350	0.86	Q V				
10+ 0	0.5410	0.86	Q V				
10+ 5	0.5470	0.87	Q V				
10+10	0.5530	0.87	Q V				
10+15	0.5591	0.88	Q V				
10+20	0.5652	0.89	Q V				
10+25	0.5713	0.89	Q V				
10+30	0.5775	0.90	Q V				
10+35	0.5838	0.91	Q V				
10+40	0.5901	0.91	Q V				
10+45	0.5964	0.92	Q V				
10+50	0.6028	0.93	Q V				
10+55	0.6092	0.93	Q V				
11+ 0	0.6157	0.94	Q V				
11+ 5	0.6223	0.95	Q V				
11+10	0.6289	0.96	Q V				
11+15	0.6355	0.97	Q V				
11+20	0.6422	0.97	Q V				
11+25	0.6490	0.98	Q V				
11+30	0.6558	0.99	Q V				
11+35	0.6627	1.00	Q V				
11+40	0.6697	1.01	Q V				
11+45	0.6767	1.02	Q V				
11+50	0.6838	1.03	Q V				
11+55	0.6909	1.04	Q V				
12+ 0	0.6982	1.05	Q V				
12+ 5	0.7055	1.06	Q V				
12+10	0.7130	1.09	Q V				
12+15	0.7206	1.10	Q V				
12+20	0.7283	1.12	Q V				
12+25	0.7360	1.13	Q V				
12+30	0.7439	1.14	Q V				
12+35	0.7519	1.16	Q V				
12+40	0.7599	1.17	Q V				
12+45	0.7681	1.18	Q V				
12+50	0.7763	1.20	Q V				
12+55	0.7847	1.21	Q V				
13+ 0	0.7931	1.23	Q V				
13+ 5	0.8017	1.24	Q V				
13+10	0.8103	1.26	Q V				
13+15	0.8191	1.28	Q V				
13+20	0.8281	1.30	Q V				
13+25	0.8371	1.31	Q V				
13+30	0.8463	1.33	Q V				
13+35	0.8556	1.35	Q V				
13+40	0.8651	1.38	Q V				
13+45	0.8747	1.40	Q V				
13+50	0.8846	1.42	Q V				
13+55	0.8945	1.45	Q V				
14+ 0	0.9047	1.48	Q V				
14+ 5	0.9150	1.50	Q V				
14+10	0.9256	1.54	Q V				
14+15	0.9364	1.57	Q V				
14+20	0.9474	1.60	Q V				
14+25	0.9587	1.64	Q V				
14+30	0.9703	1.68	Q V				
14+35	0.9821	1.72	Q V				
14+40	0.9942	1.77	Q V				

14+45	1.0067	1.81	
14+50	1.0196	1.87	
14+55	1.0329	1.93	
15+ 0	1.0466	1.99	
15+ 5	1.0608	2.06	
15+10	1.0756	2.15	
15+15	1.0910	2.24	
15+20	1.1072	2.35	
15+25	1.1237	2.40	
15+30	1.1393	2.26	
15+35	1.1548	2.24	
15+40	1.1715	2.43	
15+45	1.1901	2.70	
15+50	1.2117	3.14	
15+55	1.2377	3.78	
16+ 0	1.2729	5.11	
16+ 5	1.3327	8.69	
16+10	1.4437	16.12	
16+15	1.5208	11.20	
16+20	1.5536	4.75	
16+25	1.5744	3.02	
16+30	1.5919	2.54	
16+35	1.6084	2.40	
16+40	1.6236	2.21	
16+45	1.6376	2.04	
16+50	1.6508	1.91	
16+55	1.6632	1.80	
17+ 0	1.6749	1.70	
17+ 5	1.6861	1.63	
17+10	1.6968	1.56	
17+15	1.7071	1.49	
17+20	1.7170	1.44	
17+25	1.7266	1.39	
17+30	1.7359	1.35	
17+35	1.7449	1.31	
17+40	1.7537	1.27	
17+45	1.7622	1.24	
17+50	1.7705	1.21	
17+55	1.7786	1.18	
18+ 0	1.7865	1.15	
18+ 5	1.7943	1.12	
18+10	1.8017	1.09	
18+15	1.8090	1.06	
18+20	1.8162	1.04	
18+25	1.8232	1.02	
18+30	1.8300	1.00	
18+35	1.8368	0.98	
18+40	1.8434	0.96	
18+45	1.8499	0.95	
18+50	1.8564	0.93	
18+55	1.8627	0.92	
19+ 0	1.8689	0.90	
19+ 5	1.8750	0.89	
19+10	1.8811	0.88	
19+15	1.8871	0.87	
19+20	1.8930	0.86	
19+25	1.8988	0.84	
19+30	1.9045	0.83	
19+35	1.9102	0.82	

```
  19+40       1.9158      0.81  |Q          |           |           |     V     |
  19+45       1.9213      0.80  |Q          |           |           |     V     |
  19+50       1.9268      0.79  |Q          |           |           |     V     |
  19+55       1.9322      0.79  |Q          |           |           |     V     |
  20+ 0       1.9375      0.78  |Q          |           |           |     V     |
  20+ 5       1.9428      0.77  |Q          |           |           |      V    |
  20+10       1.9481      0.76  |Q          |           |           |      V    |
  20+15       1.9532      0.75  |Q          |           |           |      V    |
  20+20       1.9584      0.74  |Q          |           |           |      V    |
  20+25       1.9635      0.74  |Q          |           |           |      V    |
  20+30       1.9685      0.73  |Q          |           |           |      V    |
  20+35       1.9735      0.72  |Q          |           |           |      V    |
  20+40       1.9784      0.72  |Q          |           |           |      V    |
  20+45       1.9833      0.71  |Q          |           |           |      V    |
  20+50       1.9881      0.70  |Q          |           |           |      V    |
  20+55       1.9929      0.70  |Q          |           |           |       V   |
  21+ 0       1.9977      0.69  |Q          |           |           |       V   |
  21+ 5       2.0024      0.69  |Q          |           |           |       V   |
  21+10       2.0071      0.68  |Q          |           |           |       V   |
  21+15       2.0118      0.67  |Q          |           |           |       V   |
  21+20       2.0164      0.67  |Q          |           |           |       V   |
  21+25       2.0209      0.66  |Q          |           |           |       V   |
  21+30       2.0255      0.66  |Q          |           |           |       V   |
  21+35       2.0300      0.65  |Q          |           |           |       V   |
  21+40       2.0344      0.65  |Q          |           |           |       V   |
  21+45       2.0389      0.64  |Q          |           |           |       V   |
  21+50       2.0432      0.64  |Q          |           |           |       V   |
  21+55       2.0476      0.63  |Q          |           |           |        V  |
  22+ 0       2.0519      0.63  |Q          |           |           |        V  |
  22+ 5       2.0562      0.62  |Q          |           |           |        V  |
  22+10       2.0605      0.62  |Q          |           |           |        V  |
  22+15       2.0648      0.62  |Q          |           |           |        V  |
  22+20       2.0690      0.61  |Q          |           |           |        V  |
  22+25       2.0732      0.61  |Q          |           |           |        V  |
  22+30       2.0773      0.60  |Q          |           |           |        V  |
  22+35       2.0815      0.60  |Q          |           |           |        V  |
  22+40       2.0856      0.60  |Q          |           |           |        V  |
  22+45       2.0896      0.59  |Q          |           |           |        V  |
  22+50       2.0937      0.59  |Q          |           |           |        V  |
  22+55       2.0977      0.58  |Q          |           |           |        V  |
  23+ 0       2.1017      0.58  |Q          |           |           |         V |
  23+ 5       2.1057      0.58  |Q          |           |           |         V |
  23+10       2.1097      0.57  |Q          |           |           |         V |
  23+15       2.1136      0.57  |Q          |           |           |         V |
  23+20       2.1175      0.57  |Q          |           |           |         V |
  23+25       2.1214      0.56  |Q          |           |           |         V |
  23+30       2.1252      0.56  |Q          |           |           |         V |
  23+35       2.1291      0.56  |Q          |           |           |         V |
  23+40       2.1329      0.55  |Q          |           |           |         V |
  23+45       2.1367      0.55  |Q          |           |           |         V |
  23+50       2.1405      0.55  |Q          |           |           |         V |
  23+55       2.1442      0.55  |Q          |           |           |         V |
  24+ 0       2.1480      0.54  |Q          |           |           |         V |
  24+ 5       2.1513      0.48  Q           |           |           |         V |
  24+10       2.1528      0.21  Q           |           |           |         V |
  24+15       2.1530      0.04  Q           |           |           |         V |
  24+20       2.1531      0.01  Q           |           |           |         V |
-------------------------------------------------------------------------------
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA A4
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
7.83	1	1.20
Rainfall data for year 100		
7.83	6	3.00
Rainfall data for year 100		
7.83	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	7.83	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.78	0.100	56.0	56.0	7.86	0.266
7.05	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.234 (hours)
++
Watershed area = 7.83(Ac.)
Catchment Lag time = 0.187 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 44.5157
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 7.83(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 94.69 (CFS))		
1	3.676	3.481
2	23.958	19.205
3	59.151	33.326
4	84.298	23.812
5	94.519	9.678
6	98.070	3.363
7	99.008	0.889
8	100.000	0.444

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5858	0.1419

3	0.6890	0.1031
4	0.7730	0.0840
5	0.8452	0.0722
6	0.9091	0.0639
7	0.9669	0.0578
8	1.0200	0.0530
9	1.0692	0.0492
10	1.1152	0.0460
11	1.1585	0.0433
12	1.1996	0.0410
13	1.2497	0.0501
14	1.2980	0.0483
15	1.3446	0.0466
16	1.3898	0.0451
17	1.4336	0.0438
18	1.4761	0.0425
19	1.5175	0.0414
20	1.5579	0.0404
21	1.5973	0.0394
22	1.6358	0.0385
23	1.6734	0.0376
24	1.7102	0.0368
25	1.7463	0.0361
26	1.7817	0.0354
27	1.8165	0.0347
28	1.8506	0.0341
29	1.8841	0.0335
30	1.9171	0.0330
31	1.9495	0.0324
32	1.9814	0.0319
33	2.0129	0.0314
34	2.0439	0.0310
35	2.0744	0.0305
36	2.1045	0.0301
37	2.1342	0.0297
38	2.1635	0.0293
39	2.1925	0.0289
40	2.2210	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3047	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4895	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7328	0.0234
61	2.7560	0.0232

62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227
65	2.8470	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9353	0.0218
70	2.9570	0.0217
71	2.9785	0.0215
72	2.9999	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0821	0.0203
77	3.1023	0.0202
78	3.1224	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2595	0.0192
86	3.2786	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3353	0.0188
90	3.3540	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4459	0.0182
96	3.4640	0.0181
97	3.4820	0.0180
98	3.4999	0.0179
99	3.5177	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5706	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6911	0.0170
110	3.7080	0.0169
111	3.7248	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7748	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8567	0.0162
120	3.8729	0.0162

121	3.8890	0.0161
122	3.9051	0.0160
123	3.9210	0.0160
124	3.9369	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	3.9999	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0465	0.0155
132	4.0619	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1078	0.0152
136	4.1230	0.0152
137	4.1382	0.0151
138	4.1532	0.0151
139	4.1683	0.0150
140	4.1832	0.0150
141	4.1981	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2719	0.0147
147	4.2865	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3588	0.0144
153	4.3731	0.0143
154	4.3874	0.0143
155	4.4016	0.0142
156	4.4158	0.0142
157	4.4299	0.0141
158	4.4440	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.4999	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5551	0.0137
167	4.5688	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6232	0.0135
172	4.6367	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6903	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132

180	4.7433	0.0132
181	4.7565	0.0132
182	4.7696	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8733	0.0128
191	4.8861	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9370	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	4.9999	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0620	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1477	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1840	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2320	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2914	0.0118
225	5.3032	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3618	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115

239	5.4657	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.4999	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6235	0.0111
254	5.6347	0.0111
255	5.6457	0.0111
256	5.6568	0.0111
257	5.6678	0.0110
258	5.6788	0.0110
259	5.6898	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7770	0.0108
268	5.7879	0.0108
269	5.7986	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8842	0.0106
278	5.8949	0.0106
279	5.9054	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9476	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	5.9999	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094

5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094
8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113

64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114
67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153

123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156
126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0310
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0404	0.0044	0.0360
181	0.0425	0.0046	0.0379

182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0416
184	0.0483	0.0053	0.0430
185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0530	0.0058	0.0473
189	0.0639	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1031	0.0061	0.0970
192	0.1419	0.0061	0.1357
193	0.4440	0.0061	0.4378
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132

241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128
244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 20.73(CFS)

++

24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	7.5	15.0	22.5	30.0
0+ 5	0.0002	0.03	Q				
0+10	0.0017	0.21	Q				
0+15	0.0053	0.52	Q				
0+20	0.0104	0.74	Q				
0+25	0.0161	0.83	VQ				
0+30	0.0221	0.87	VQ				
0+35	0.0282	0.88	VQ				
0+40	0.0343	0.89	VQ				
0+45	0.0404	0.89	VQ				
0+50	0.0465	0.89	VQ				
0+55	0.0527	0.89	VQ				
1+ 0	0.0588	0.89	VQ				
1+ 5	0.0650	0.90	VQ				
1+10	0.0712	0.90	VQ				
1+15	0.0774	0.90	VQ				
1+20	0.0836	0.90	VQ				
1+25	0.0899	0.91	Q				
1+30	0.0962	0.91	Q				
1+35	0.1024	0.91	Q				
1+40	0.1087	0.92	Q				
1+45	0.1151	0.92	Q				
1+50	0.1214	0.92	Q				
1+55	0.1278	0.92	Q				
2+ 0	0.1341	0.93	Q				
2+ 5	0.1405	0.93	Q				
2+10	0.1469	0.93	Q				
2+15	0.1534	0.93	Q				
2+20	0.1598	0.94	Q				
2+25	0.1663	0.94	Q				
2+30	0.1728	0.94	Q				
2+35	0.1793	0.95	QV				
2+40	0.1858	0.95	QV				
2+45	0.1924	0.95	QV				
2+50	0.1990	0.95	QV				
2+55	0.2056	0.96	QV				
3+ 0	0.2122	0.96	QV				
3+ 5	0.2188	0.96	QV				
3+10	0.2255	0.97	QV				
3+15	0.2321	0.97	QV				
3+20	0.2388	0.97	QV				
3+25	0.2455	0.98	QV				
3+30	0.2523	0.98	QV				
3+35	0.2590	0.98	QV				
3+40	0.2658	0.99	Q V				
3+45	0.2726	0.99	Q V				
3+50	0.2795	0.99	Q V				
3+55	0.2863	1.00	Q V				
4+ 0	0.2932	1.00	Q V				
4+ 5	0.3001	1.00	Q V				
4+10	0.3070	1.01	Q V				
4+15	0.3140	1.01	Q V				
4+20	0.3209	1.01	Q V				
4+25	0.3279	1.02	Q V				
4+30	0.3350	1.02	Q V				
4+35	0.3420	1.02	Q V				

4+40	0.3491	1.03	Q V	|	|	|
4+45	0.3562	1.03	Q V	|	|	|
4+50	0.3633	1.03	Q V	|	|	|
4+55	0.3704	1.04	Q V	|	|	|
5+ 0	0.3776	1.04	Q V	|	|	|
5+ 5	0.3848	1.05	Q V	|	|	|
5+10	0.3921	1.05	Q V	|	|	|
5+15	0.3993	1.05	Q V	|	|	|
5+20	0.4066	1.06	Q V	|	|	|
5+25	0.4139	1.06	Q V	|	|	|
5+30	0.4212	1.07	Q V	|	|	|
5+35	0.4286	1.07	Q V	|	|	|
5+40	0.4360	1.07	Q V	|	|	|
5+45	0.4434	1.08	Q V	|	|	|
5+50	0.4509	1.08	Q V	|	|	|
5+55	0.4584	1.09	Q V	|	|	|
6+ 0	0.4659	1.09	Q V	|	|	|
6+ 5	0.4734	1.10	Q V	|	|	|
6+10	0.4810	1.10	Q V	|	|	|
6+15	0.4886	1.10	Q V	|	|	|
6+20	0.4963	1.11	Q V	|	|	|
6+25	0.5039	1.11	Q V	|	|	|
6+30	0.5117	1.12	Q V	|	|	|
6+35	0.5194	1.12	Q V	|	|	|
6+40	0.5272	1.13	Q V	|	|	|
6+45	0.5350	1.13	Q V	|	|	|
6+50	0.5428	1.14	Q V	|	|	|
6+55	0.5507	1.14	Q V	|	|	|
7+ 0	0.5586	1.15	Q V	|	|	|
7+ 5	0.5666	1.15	Q V	|	|	|
7+10	0.5745	1.16	Q V	|	|	|
7+15	0.5826	1.16	Q V	|	|	|
7+20	0.5906	1.17	Q V	|	|	|
7+25	0.5987	1.18	Q V	|	|	|
7+30	0.6068	1.18	Q V	|	|	|
7+35	0.6150	1.19	Q V	|	|	|
7+40	0.6232	1.19	Q V	|	|	|
7+45	0.6315	1.20	Q V	|	|	|
7+50	0.6398	1.20	Q V	|	|	|
7+55	0.6481	1.21	Q V	|	|	|
8+ 0	0.6565	1.22	Q V	|	|	|
8+ 5	0.6649	1.22	Q V	|	|	|
8+10	0.6734	1.23	Q V	|	|	|
8+15	0.6819	1.24	Q V	|	|	|
8+20	0.6904	1.24	Q V	|	|	|
8+25	0.6990	1.25	Q V	|	|	|
8+30	0.7077	1.25	Q V	|	|	|
8+35	0.7164	1.26	Q V	|	|	|
8+40	0.7251	1.27	Q V	|	|	|
8+45	0.7339	1.28	Q V	|	|	|
8+50	0.7427	1.28	Q V	|	|	|
8+55	0.7516	1.29	Q V	|	|	|
9+ 0	0.7605	1.30	Q V	|	|	|
9+ 5	0.7695	1.30	Q V	|	|	|
9+10	0.7786	1.31	Q V	|	|	|
9+15	0.7877	1.32	Q V	|	|	|
9+20	0.7968	1.33	Q V	|	|	|
9+25	0.8060	1.34	Q V	|	|	|
9+30	0.8153	1.34	Q V	|	|	|

9+35	0.8246	1.35	Q	V			
9+40	0.8340	1.36	Q	V			
9+45	0.8434	1.37	Q	V			
9+50	0.8529	1.38	Q	V			
9+55	0.8625	1.39	Q	V			
10+ 0	0.8721	1.40	Q	V			
10+ 5	0.8818	1.41	Q	V			
10+10	0.8915	1.42	Q	V			
10+15	0.9013	1.43	Q	V			
10+20	0.9112	1.44	Q	V			
10+25	0.9212	1.45	Q	V			
10+30	0.9312	1.46	Q	V			
10+35	0.9413	1.47	Q	V			
10+40	0.9515	1.48	Q	V			
10+45	0.9618	1.49	Q	V			
10+50	0.9721	1.50	Q	V			
10+55	0.9825	1.51	Q	V			
11+ 0	0.9930	1.52	Q	V			
11+ 5	1.0036	1.54	Q	V			
11+10	1.0142	1.55	Q	V			
11+15	1.0250	1.56	Q	V			
11+20	1.0358	1.57	Q	V			
11+25	1.0468	1.59	Q	V			
11+30	1.0578	1.60	Q	V			
11+35	1.0690	1.62	Q	V			
11+40	1.0802	1.63	Q	V			
11+45	1.0915	1.65	Q	V			
11+50	1.1030	1.66	Q	V			
11+55	1.1145	1.68	Q	V			
12+ 0	1.1262	1.69	Q	V			
12+ 5	1.1380	1.71	Q	V			
12+10	1.1499	1.74	Q	V			
12+15	1.1621	1.77	Q	V			
12+20	1.1745	1.80	Q	V			
12+25	1.1870	1.82	Q	V			
12+30	1.1997	1.84	Q	V			
12+35	1.2125	1.86	Q	V			
12+40	1.2255	1.88	Q	V			
12+45	1.2386	1.91	Q	V			
12+50	1.2519	1.93	Q	V			
12+55	1.2654	1.95	Q	V			
13+ 0	1.2790	1.98	Q	V			
13+ 5	1.2927	2.00	Q	V			
13+10	1.3067	2.03	Q	V			
13+15	1.3208	2.05	Q	V			
13+20	1.3352	2.08	Q	V			
13+25	1.3497	2.11	Q	V			
13+30	1.3645	2.14	Q	V			
13+35	1.3795	2.18	Q	V			
13+40	1.3947	2.21	Q	V			
13+45	1.4101	2.24	Q	V			
13+50	1.4259	2.28	Q	V			
13+55	1.4418	2.32	Q	V			
14+ 0	1.4581	2.36	Q	V			
14+ 5	1.4747	2.41	Q	V			
14+10	1.4916	2.45	Q	V			
14+15	1.5088	2.50	Q	V			
14+20	1.5264	2.56	Q	V			
14+25	1.5444	2.61	Q	V			

14+30	1.5628	2.67	Q	V			
14+35	1.5816	2.74	Q	V			
14+40	1.6010	2.80	Q	V			
14+45	1.6208	2.88	Q	V			
14+50	1.6412	2.96	Q	V			
14+55	1.6622	3.05	Q	V			
15+ 0	1.6839	3.15	Q	V			
15+ 5	1.7063	3.25	Q	V			
15+10	1.7295	3.37	Q	V			
15+15	1.7537	3.51	Q	V			
15+20	1.7789	3.66	Q	V			
15+25	1.8051	3.80	Q	V			
15+30	1.8313	3.81	Q	V			
15+35	1.8569	3.72	Q	V			
15+40	1.8829	3.77	Q	V			
15+45	1.9107	4.04	Q	V			
15+50	1.9418	4.51	Q	V			
15+55	1.9781	5.26	Q	V			
16+ 0	2.0233	6.57	Q	V			
16+ 5	2.0902	9.71	Q	V			
16+10	2.2032	16.41	Q	V			
16+15	2.3460	20.73	VQ				
16+20	2.4554	15.88	Q	V			
16+25	2.5197	9.33	Q	V			
16+30	2.5609	5.99	Q	V			
16+35	2.5924	4.58	Q	V			
16+40	2.6204	4.07	Q	V			
16+45	2.6453	3.61	Q	V			
16+50	2.6683	3.34	Q	V			
16+55	2.6898	3.12	Q	V			
17+ 0	2.7101	2.94	Q	V			
17+ 5	2.7293	2.79	Q	V			
17+10	2.7475	2.65	Q	V			
17+15	2.7650	2.54	Q	V			
17+20	2.7818	2.44	Q	V			
17+25	2.7980	2.35	Q	V			
17+30	2.8136	2.27	Q	V			
17+35	2.8288	2.20	Q	V			
17+40	2.8434	2.13	Q	V			
17+45	2.8577	2.07	Q	V			
17+50	2.8716	2.02	Q	V			
17+55	2.8851	1.97	Q	V			
18+ 0	2.8984	1.92	Q	V			
18+ 5	2.9113	1.87	Q	V			
18+10	2.9238	1.83	Q	V			
18+15	2.9361	1.77	Q	V			
18+20	2.9479	1.73	Q	V			
18+25	2.9596	1.69	Q	V			
18+30	2.9710	1.66	Q	V			
18+35	2.9822	1.63	Q	V			
18+40	2.9932	1.60	Q	V			
18+45	3.0040	1.57	Q	V			
18+50	3.0146	1.54	Q	V			
18+55	3.0251	1.52	Q	V			
19+ 0	3.0354	1.50	Q	V			
19+ 5	3.0455	1.47	Q	V			
19+10	3.0555	1.45	Q	V			
19+15	3.0654	1.43	Q	V			
19+20	3.0751	1.41	Q	V			

19+25	3.0847	1.39	Q				V
19+30	3.0942	1.38	Q				V
19+35	3.1035	1.36	Q				V
19+40	3.1128	1.34	Q				V
19+45	3.1219	1.32	Q				V
19+50	3.1309	1.31	Q				V
19+55	3.1398	1.29	Q				V
20+ 0	3.1486	1.28	Q				V
20+ 5	3.1574	1.27	Q				V
20+10	3.1660	1.25	Q				V
20+15	3.1745	1.24	Q				V
20+20	3.1830	1.23	Q				V
20+25	3.1913	1.21	Q				V
20+30	3.1996	1.20	Q				V
20+35	3.2078	1.19	Q				V
20+40	3.2159	1.18	Q				V
20+45	3.2240	1.17	Q				V
20+50	3.2319	1.16	Q				V
20+55	3.2398	1.15	Q				V
21+ 0	3.2476	1.14	Q				V
21+ 5	3.2554	1.13	Q				V
21+10	3.2631	1.12	Q				V
21+15	3.2707	1.11	Q				V
21+20	3.2783	1.10	Q				V
21+25	3.2858	1.09	Q				V
21+30	3.2932	1.08	Q				V
21+35	3.3006	1.07	Q				V
21+40	3.3080	1.06	Q				V
21+45	3.3152	1.06	Q				V
21+50	3.3224	1.05	Q				V
21+55	3.3296	1.04	Q				V
22+ 0	3.3367	1.03	Q				V
22+ 5	3.3438	1.03	Q				V
22+10	3.3508	1.02	Q				V
22+15	3.3578	1.01	Q				V
22+20	3.3647	1.00	Q				V
22+25	3.3715	1.00	Q				V
22+30	3.3784	0.99	Q				V
22+35	3.3851	0.98	Q				V
22+40	3.3919	0.98	Q				V
22+45	3.3985	0.97	Q				V
22+50	3.4052	0.96	Q				V
22+55	3.4118	0.96	Q				V
23+ 0	3.4184	0.95	Q				V
23+ 5	3.4249	0.95	Q				V
23+10	3.4314	0.94	Q				V
23+15	3.4378	0.94	Q				V
23+20	3.4442	0.93	Q				V
23+25	3.4506	0.92	Q				V
23+30	3.4569	0.92	Q				V
23+35	3.4632	0.91	Q				V
23+40	3.4695	0.91	Q				V
23+45	3.4757	0.90	Q				V
23+50	3.4819	0.90	Q				V
23+55	3.4880	0.89	Q				V
24+ 0	3.4942	0.89	Q				V
24+ 5	3.5000	0.85	Q				V
24+10	3.5046	0.67	Q				V
24+15	3.5071	0.36	Q				V

```
   24+20       3.5080      0.13  Q          |          |          |         V|
   24+25       3.5083      0.04  Q          |          |          |         V|
   24+30       3.5084      0.01  Q          |          |          |         V|
   24+35       3.5084      0.00  Q          |          |          |          V
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA A5
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
2.71	1	1.20
Rainfall data for year 100		
2.71	6	3.00
Rainfall data for year 100		
2.71	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	2.71	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.27	0.100	56.0	56.0	7.86	0.266
2.44	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.149 (hours)
++
Watershed area = 2.71(Ac.)
Catchment Lag time = 0.119 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 69.9105
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 2.71(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 32.77 (CFS))	
1	8.755	2.869
2	53.373	14.623
3	89.259	11.761
4	97.900	2.832
5	99.455	0.510
6	100.000	0.178

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5860	0.1419
3	0.6891	0.1032
4	0.7732	0.0840

5	0.8454	0.0722
6	0.9093	0.0640
7	0.9671	0.0578
8	1.0202	0.0531
9	1.0694	0.0492
10	1.1155	0.0460
11	1.1588	0.0433
12	1.1998	0.0410
13	1.2500	0.0501
14	1.2983	0.0483
15	1.3449	0.0466
16	1.3901	0.0451
17	1.4338	0.0438
18	1.4764	0.0425
19	1.5178	0.0414
20	1.5581	0.0403
21	1.5975	0.0394
22	1.6360	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8843	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9816	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228

64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9136	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1623	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160

123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0774	0.0154
134	4.0927	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5415	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5826	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7566	0.0132

182	4.7697	0.0131
183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1235	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3151	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114

241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7337	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9372	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094

7	0.0106	0.0012	0.0094
8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114

66	0.0128	0.0014	0.0114
67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155

125	0.0175	0.0019	0.0156
126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0403	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0415

184	0.0483	0.0053	0.0430
185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0640	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0971
192	0.1419	0.0061	0.1358
193	0.4441	0.0061	0.4380
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130

243	0.0144	0.0016	0.0128
244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 8.54(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0002	0.03	Q				
0+10	0.0013	0.16	Q				
0+15	0.0032	0.27	VQ				
0+20	0.0052	0.30	VQ				
0+25	0.0073	0.30	VQ				
0+30	0.0094	0.31	VQ				
0+35	0.0116	0.31	VQ				
0+40	0.0137	0.31	VQ				
0+45	0.0158	0.31	VQ				
0+50	0.0180	0.31	VQ				
0+55	0.0201	0.31	VQ				
1+ 0	0.0223	0.31	VQ				
1+ 5	0.0244	0.31	VQ				
1+10	0.0266	0.31	VQ				
1+15	0.0287	0.31	VQ				
1+20	0.0309	0.32	|Q				
1+25	0.0331	0.32	|Q				
1+30	0.0353	0.32	|Q				
1+35	0.0375	0.32	|Q				
1+40	0.0397	0.32	|Q				
1+45	0.0419	0.32	|Q				
1+50	0.0441	0.32	|Q				
1+55	0.0463	0.32	|Q				
2+ 0	0.0485	0.32	|Q				
2+ 5	0.0508	0.32	|Q				
2+10	0.0530	0.32	|Q				
2+15	0.0552	0.33	|Q				
2+20	0.0575	0.33	|Q				
2+25	0.0597	0.33	|Q				
2+30	0.0620	0.33	|QV				
2+35	0.0643	0.33	|QV				
2+40	0.0666	0.33	|QV				
2+45	0.0688	0.33	|QV				
2+50	0.0711	0.33	|QV				
2+55	0.0734	0.33	|QV				
3+ 0	0.0757	0.33	|QV				
3+ 5	0.0781	0.34	|QV				
3+10	0.0804	0.34	|QV				
3+15	0.0827	0.34	|QV				
3+20	0.0850	0.34	|QV				
3+25	0.0874	0.34	|QV				
3+30	0.0897	0.34	|QV				
3+35	0.0921	0.34	|Q V				
3+40	0.0945	0.34	|Q V				
3+45	0.0968	0.34	|Q V				
3+50	0.0992	0.35	|Q V				
3+55	0.1016	0.35	|Q V				
4+ 0	0.1040	0.35	|Q V				
4+ 5	0.1064	0.35	|Q V				
4+10	0.1088	0.35	|Q V				
4+15	0.1113	0.35	|Q V				
4+20	0.1137	0.35	|Q V				
4+25	0.1161	0.35	|Q V				
4+30	0.1186	0.36	|Q V				
4+35	0.1210	0.36	|Q V				
4+40	0.1235	0.36	|Q V				
4+45	0.1260	0.36	|Q V				

4+50	0.1285	0.36	Q V				
4+55	0.1310	0.36	Q V				
5+ 0	0.1335	0.36	Q V				
5+ 5	0.1360	0.36	Q V				
5+10	0.1385	0.37	Q V				
5+15	0.1410	0.37	Q V				
5+20	0.1436	0.37	Q V				
5+25	0.1461	0.37	Q V				
5+30	0.1487	0.37	Q V				
5+35	0.1513	0.37	Q V				
5+40	0.1539	0.37	Q V				
5+45	0.1564	0.38	Q V				
5+50	0.1590	0.38	Q V				
5+55	0.1617	0.38	Q V				
6+ 0	0.1643	0.38	Q V				
6+ 5	0.1669	0.38	Q V				
6+10	0.1696	0.38	Q V				
6+15	0.1722	0.39	Q V				
6+20	0.1749	0.39	Q V				
6+25	0.1776	0.39	Q V				
6+30	0.1803	0.39	Q V				
6+35	0.1830	0.39	Q V				
6+40	0.1857	0.39	Q V				
6+45	0.1884	0.40	Q V				
6+50	0.1911	0.40	Q V				
6+55	0.1939	0.40	Q V				
7+ 0	0.1967	0.40	Q V				
7+ 5	0.1994	0.40	Q V				
7+10	0.2022	0.40	Q V				
7+15	0.2050	0.41	Q V				
7+20	0.2078	0.41	Q V				
7+25	0.2107	0.41	Q V				
7+30	0.2135	0.41	Q V				
7+35	0.2164	0.41	Q V				
7+40	0.2192	0.42	Q V				
7+45	0.2221	0.42	Q V				
7+50	0.2250	0.42	Q V				
7+55	0.2279	0.42	Q V				
8+ 0	0.2309	0.43	Q V				
8+ 5	0.2338	0.43	Q V				
8+10	0.2368	0.43	Q V				
8+15	0.2397	0.43	Q V				
8+20	0.2427	0.43	Q V				
8+25	0.2457	0.44	Q V				
8+30	0.2487	0.44	Q V				
8+35	0.2518	0.44	Q V				
8+40	0.2548	0.44	Q V				
8+45	0.2579	0.45	Q V				
8+50	0.2610	0.45	Q V				
8+55	0.2641	0.45	Q V				
9+ 0	0.2672	0.45	Q V				
9+ 5	0.2704	0.46	Q V				
9+10	0.2735	0.46	Q V				
9+15	0.2767	0.46	Q V				
9+20	0.2799	0.46	Q V				
9+25	0.2831	0.47	Q V				
9+30	0.2864	0.47	Q V				
9+35	0.2896	0.47	Q V				
9+40	0.2929	0.48	Q V				

9+45	0.2962	0.48	Q	V			
9+50	0.2995	0.48	Q	V			
9+55	0.3029	0.49	Q	V			
10+ 0	0.3062	0.49	Q	V			
10+ 5	0.3096	0.49	Q	V			
10+10	0.3130	0.50	Q	V			
10+15	0.3165	0.50	Q	V			
10+20	0.3199	0.50	Q	V			
10+25	0.3234	0.51	Q	V			
10+30	0.3269	0.51	Q	V			
10+35	0.3305	0.51	Q	V			
10+40	0.3340	0.52	Q	V			
10+45	0.3376	0.52	Q	V			
10+50	0.3412	0.53	Q	V			
10+55	0.3449	0.53	Q	V			
11+ 0	0.3486	0.53	Q	V			
11+ 5	0.3523	0.54	Q	V			
11+10	0.3560	0.54	Q	V			
11+15	0.3598	0.55	Q	V			
11+20	0.3636	0.55	Q	V			
11+25	0.3674	0.56	Q	V			
11+30	0.3713	0.56	Q	V			
11+35	0.3752	0.57	Q	V			
11+40	0.3791	0.57	Q	V			
11+45	0.3831	0.58	Q	V			
11+50	0.3871	0.58	Q	V			
11+55	0.3911	0.59	Q	V			
12+ 0	0.3952	0.59	Q	V			
12+ 5	0.3994	0.60	Q	V			
12+10	0.4036	0.61	Q	V			
12+15	0.4079	0.62	Q	V			
12+20	0.4123	0.63	Q	V			
12+25	0.4167	0.64	Q	V			
12+30	0.4211	0.65	Q	V			
12+35	0.4256	0.65	Q	V			
12+40	0.4302	0.66	Q	V			
12+45	0.4348	0.67	Q	V			
12+50	0.4395	0.68	Q	V			
12+55	0.4442	0.69	Q	V			
13+ 0	0.4490	0.69	Q	V			
13+ 5	0.4538	0.70	Q	V			
13+10	0.4587	0.71	Q	V			
13+15	0.4637	0.72	Q	V			
13+20	0.4687	0.73	Q	V			
13+25	0.4739	0.74	Q	V			
13+30	0.4791	0.75	Q	V			
13+35	0.4843	0.77	Q	V			
13+40	0.4897	0.78	Q	V			
13+45	0.4951	0.79	Q	V			
13+50	0.5007	0.81	Q	V			
13+55	0.5063	0.82	Q	V			
14+ 0	0.5121	0.83	Q	V			
14+ 5	0.5179	0.85	Q	V			
14+10	0.5239	0.87	Q	V			
14+15	0.5300	0.89	Q	V			
14+20	0.5362	0.90	Q	V			
14+25	0.5426	0.92	Q	V			
14+30	0.5491	0.95	Q	V			
14+35	0.5558	0.97	Q	V			

14+40	0.5627	1.00	Q	V				
14+45	0.5697	1.02	Q	V				
14+50	0.5770	1.05	Q	V				
14+55	0.5845	1.09	Q	V				
15+ 0	0.5922	1.12	Q	V				
15+ 5	0.6003	1.16	Q	V				
15+10	0.6086	1.21	Q	V				
15+15	0.6173	1.26	Q	V				
15+20	0.6264	1.32	Q	V				
15+25	0.6357	1.36	Q	V				
15+30	0.6447	1.30	Q	V				
15+35	0.6534	1.27	Q	V				
15+40	0.6628	1.36	Q	V				
15+45	0.6732	1.51	Q	V				
15+50	0.6852	1.74	Q	V				
15+55	0.6996	2.09	Q	V				
16+ 0	0.7187	2.78	Q	V				
16+ 5	0.7505	4.61	Q	V				
16+10	0.8093	8.54	V	Q				
16+15	0.8567	6.88	QV					
16+20	0.8782	3.12	Q	V				
16+25	0.8906	1.80	Q	V				
16+30	0.9011	1.52	Q	V				
16+35	0.9105	1.38	Q	V				
16+40	0.9193	1.27	Q	V				
16+45	0.9273	1.17	Q	V				
16+50	0.9348	1.09	Q	V				
16+55	0.9419	1.03	Q	V				
17+ 0	0.9486	0.97	Q	V				
17+ 5	0.9550	0.93	Q	V				
17+10	0.9611	0.89	Q	V				
17+15	0.9670	0.85	Q	V				
17+20	0.9727	0.82	Q	V				
17+25	0.9781	0.79	Q	V				
17+30	0.9834	0.77	Q	V				
17+35	0.9885	0.74	Q	V				
17+40	0.9935	0.72	Q	V				
17+45	0.9984	0.70	Q	V				
17+50	1.0031	0.69	Q	V				
17+55	1.0077	0.67	Q	V				
18+ 0	1.0122	0.65	Q	V				
18+ 5	1.0166	0.64	Q	V				
18+10	1.0209	0.62	Q	V				
18+15	1.0250	0.60	Q	V				
18+20	1.0291	0.59	Q	V				
18+25	1.0331	0.58	Q	V				
18+30	1.0370	0.57	Q	V				
18+35	1.0408	0.56	Q	V				
18+40	1.0446	0.55	Q	V				
18+45	1.0483	0.54	Q	V				
18+50	1.0519	0.53	Q	V				
18+55	1.0555	0.52	Q	V				
19+ 0	1.0591	0.51	Q	V				
19+ 5	1.0626	0.51	Q	V				
19+10	1.0660	0.50	Q	V				
19+15	1.0694	0.49	Q	V				
19+20	1.0727	0.49	Q	V				
19+25	1.0760	0.48	Q	V				
19+30	1.0793	0.47	Q	V				

19+35	1.0825	0.47	Q			V	
19+40	1.0857	0.46	Q			V	
19+45	1.0888	0.46	Q			V	
19+50	1.0919	0.45	Q			V	
19+55	1.0950	0.45	Q			V	
20+ 0	1.0980	0.44	Q			V	
20+ 5	1.1011	0.44	Q			V	
20+10	1.1040	0.43	Q			V	
20+15	1.1070	0.43	Q			V	
20+20	1.1099	0.42	Q			V	
20+25	1.1128	0.42	Q			V	
20+30	1.1156	0.41	Q			V	
20+35	1.1185	0.41	Q			V	
20+40	1.1213	0.41	Q			V	
20+45	1.1240	0.40	Q			V	
20+50	1.1268	0.40	Q			V	
20+55	1.1295	0.40	Q			V	
21+ 0	1.1322	0.39	Q			V	
21+ 5	1.1349	0.39	Q			V	
21+10	1.1375	0.39	Q			V	
21+15	1.1402	0.38	Q			V	
21+20	1.1428	0.38	Q			V	
21+25	1.1454	0.38	Q			V	
21+30	1.1480	0.37	Q			V	
21+35	1.1505	0.37	Q			V	
21+40	1.1530	0.37	Q			V	
21+45	1.1556	0.37	Q			V	
21+50	1.1581	0.36	Q			V	
21+55	1.1605	0.36	Q			V	
22+ 0	1.1630	0.36	Q			V	
22+ 5	1.1654	0.35	Q			V	
22+10	1.1679	0.35	Q			V	
22+15	1.1703	0.35	Q			V	
22+20	1.1727	0.35	Q			V	
22+25	1.1750	0.34	Q			V	
22+30	1.1774	0.34	Q			V	
22+35	1.1797	0.34	Q			V	
22+40	1.1821	0.34	Q			V	
22+45	1.1844	0.34	Q			V	
22+50	1.1867	0.33	Q			V	
22+55	1.1890	0.33	Q			V	
23+ 0	1.1912	0.33	Q			V	
23+ 5	1.1935	0.33	Q			V	
23+10	1.1957	0.33	Q			V	
23+15	1.1980	0.32	Q			V	
23+20	1.2002	0.32	Q			V	
23+25	1.2024	0.32	Q			V	
23+30	1.2046	0.32	Q			V	
23+35	1.2068	0.32	Q			V	
23+40	1.2089	0.31	Q			V	
23+45	1.2111	0.31	Q			V	
23+50	1.2132	0.31	Q			V	
23+55	1.2154	0.31	Q			V	
24+ 0	1.2175	0.31	Q			V	
24+ 5	1.2194	0.28	Q			V	
24+10	1.2204	0.14	Q			V	
24+15	1.2206	0.03	Q			V	
24+20	1.2207	0.01	Q			V	
24+25	1.2207	0.00	Q			V	

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U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA A6
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
5.22	1	1.20
Rainfall data for year 100		
5.22	6	3.00
Rainfall data for year 100		
5.22	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	5.22	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.52	0.100	56.0	56.0	7.86	0.266
4.70	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.180 (hours)
++
Watershed area = 5.22(Ac.)
Catchment Lag time = 0.144 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 57.8704
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 5.22(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 63.13 (CFS))		
1	6.077	3.836
2	39.009	20.790
3	79.564	25.602
4	94.634	9.514
5	98.466	2.419
6	99.524	0.668
7	100.000	0.301

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032

4	0.7731	0.0840
5	0.8453	0.0722
6	0.9092	0.0639
7	0.9670	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1153	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2499	0.0501
14	1.2981	0.0483
15	1.3448	0.0466
16	1.3899	0.0451
17	1.4337	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8165	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9171	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0129	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230

63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1224	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4820	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7080	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161

122	3.9051	0.0160
123	3.9210	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4440	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132

181	4.7565	0.0132
182	4.7696	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114

240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9476	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094

6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094
8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113

65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114
67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154

124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156
126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0404	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390

183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430
185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0639	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0970
192	0.1419	0.0061	0.1358
193	0.4440	0.0061	0.4379
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131

242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128
244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 14.62(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0002	0.04	Q				
0+10	0.0018	0.23	Q				
0+15	0.0050	0.47	Q				
0+20	0.0089	0.56	VQ				
0+25	0.0129	0.58	VQ				
0+30	0.0169	0.59	VQ				
0+35	0.0210	0.59	VQ				
0+40	0.0251	0.59	VQ				
0+45	0.0292	0.60	VQ				
0+50	0.0333	0.60	VQ				
0+55	0.0374	0.60	VQ				
1+ 0	0.0416	0.60	VQ				
1+ 5	0.0457	0.60	VQ				
1+10	0.0499	0.60	VQ				
1+15	0.0541	0.61	VQ				
1+20	0.0582	0.61	VQ				
1+25	0.0624	0.61	|Q				
1+30	0.0666	0.61	|Q				
1+35	0.0709	0.61	|Q				
1+40	0.0751	0.61	|Q				
1+45	0.0793	0.62	|Q				
1+50	0.0836	0.62	|Q				
1+55	0.0878	0.62	|Q				
2+ 0	0.0921	0.62	|Q				
2+ 5	0.0964	0.62	|Q				
2+10	0.1007	0.63	|Q				
2+15	0.1050	0.63	|Q				
2+20	0.1094	0.63	|Q				
2+25	0.1137	0.63	|Q				
2+30	0.1181	0.63	|QV				
2+35	0.1224	0.63	|QV				
2+40	0.1268	0.64	|QV				
2+45	0.1312	0.64	|QV				
2+50	0.1356	0.64	|QV				
2+55	0.1401	0.64	|QV				
3+ 0	0.1445	0.64	|QV				
3+ 5	0.1490	0.65	|QV				
3+10	0.1534	0.65	|QV				
3+15	0.1579	0.65	|QV				
3+20	0.1624	0.65	|QV				
3+25	0.1669	0.65	|QV				
3+30	0.1714	0.66	|QV				
3+35	0.1760	0.66	|QV				
3+40	0.1805	0.66	|Q V				
3+45	0.1851	0.66	|Q V				
3+50	0.1897	0.67	|Q V				
3+55	0.1943	0.67	|Q V				
4+ 0	0.1989	0.67	|Q V				
4+ 5	0.2035	0.67	|Q V				
4+10	0.2082	0.67	|Q V				
4+15	0.2128	0.68	|Q V				
4+20	0.2175	0.68	|Q V				
4+25	0.2222	0.68	|Q V				
4+30	0.2269	0.68	|Q V				
4+35	0.2317	0.69	|Q V				
4+40	0.2364	0.69	|Q V				

4+45	0.2412	0.69	Q V	|	|	|	|
4+50	0.2460	0.69	Q V	|	|	|	|
4+55	0.2508	0.70	Q V	|	|	|	|
5+ 0	0.2556	0.70	Q V	|	|	|	|
5+ 5	0.2604	0.70	Q V	|	|	|	|
5+10	0.2653	0.70	Q V	|	|	|	|
5+15	0.2701	0.71	Q V	|	|	|	|
5+20	0.2750	0.71	Q V	|	|	|	|
5+25	0.2799	0.71	Q V	|	|	|	|
5+30	0.2849	0.72	Q V	|	|	|	|
5+35	0.2898	0.72	Q V	|	|	|	|
5+40	0.2948	0.72	Q V	|	|	|	|
5+45	0.2998	0.72	Q V	|	|	|	|
5+50	0.3048	0.73	Q V	|	|	|	|
5+55	0.3098	0.73	Q V	|	|	|	|
6+ 0	0.3149	0.73	Q V	|	|	|	|
6+ 5	0.3199	0.74	Q V	|	|	|	|
6+10	0.3250	0.74	Q V	|	|	|	|
6+15	0.3301	0.74	Q V	|	|	|	|
6+20	0.3353	0.75	Q V	|	|	|	|
6+25	0.3404	0.75	Q V	|	|	|	|
6+30	0.3456	0.75	Q V	|	|	|	|
6+35	0.3508	0.75	Q V	|	|	|	|
6+40	0.3560	0.76	Q V	|	|	|	|
6+45	0.3613	0.76	Q V	|	|	|	|
6+50	0.3665	0.76	Q V	|	|	|	|
6+55	0.3718	0.77	Q V	|	|	|	|
7+ 0	0.3771	0.77	Q V	|	|	|	|
7+ 5	0.3825	0.78	Q V	|	|	|	|
7+10	0.3878	0.78	Q V	|	|	|	|
7+15	0.3932	0.78	Q V	|	|	|	|
7+20	0.3986	0.79	Q V	|	|	|	|
7+25	0.4041	0.79	Q V	|	|	|	|
7+30	0.4095	0.79	Q V	|	|	|	|
7+35	0.4150	0.80	Q V	|	|	|	|
7+40	0.4205	0.80	Q V	|	|	|	|
7+45	0.4261	0.81	Q V	|	|	|	|
7+50	0.4317	0.81	Q V	|	|	|	|
7+55	0.4373	0.81	Q V	|	|	|	|
8+ 0	0.4429	0.82	Q V	|	|	|	|
8+ 5	0.4486	0.82	Q V	|	|	|	|
8+10	0.4542	0.83	Q V	|	|	|	|
8+15	0.4600	0.83	Q V	|	|	|	|
8+20	0.4657	0.83	Q V	|	|	|	|
8+25	0.4715	0.84	Q V	|	|	|	|
8+30	0.4773	0.84	Q V	|	|	|	|
8+35	0.4831	0.85	Q V	|	|	|	|
8+40	0.4890	0.85	Q V	|	|	|	|
8+45	0.4949	0.86	Q V	|	|	|	|
8+50	0.5008	0.86	Q V	|	|	|	|
8+55	0.5068	0.87	Q V	|	|	|	|
9+ 0	0.5128	0.87	Q V	|	|	|	|
9+ 5	0.5189	0.88	Q V	|	|	|	|
9+10	0.5249	0.88	Q V	|	|	|	|
9+15	0.5310	0.89	Q V	|	|	|	|
9+20	0.5372	0.89	Q V	|	|	|	|
9+25	0.5434	0.90	Q V	|	|	|	|
9+30	0.5496	0.90	Q V	|	|	|	|
9+35	0.5559	0.91	Q V	|	|	|	|

9+40	0.5622	0.92	Q V				
9+45	0.5685	0.92	Q V				
9+50	0.5749	0.93	Q V				
9+55	0.5813	0.93	Q V				
10+ 0	0.5878	0.94	Q V				
10+ 5	0.5943	0.95	Q V				
10+10	0.6009	0.95	Q V				
10+15	0.6075	0.96	Q V				
10+20	0.6141	0.97	Q V				
10+25	0.6208	0.97	Q V				
10+30	0.6276	0.98	Q V				
10+35	0.6344	0.99	Q V				
10+40	0.6412	0.99	Q V				
10+45	0.6481	1.00	Q V				
10+50	0.6551	1.01	Q V				
10+55	0.6621	1.02	Q V				
11+ 0	0.6692	1.03	Q V				
11+ 5	0.6763	1.03	Q V				
11+10	0.6835	1.04	Q V				
11+15	0.6907	1.05	Q V				
11+20	0.6980	1.06	Q V				
11+25	0.7054	1.07	Q V				
11+30	0.7128	1.08	Q V				
11+35	0.7203	1.09	Q V				
11+40	0.7278	1.10	Q V				
11+45	0.7355	1.11	Q V				
11+50	0.7432	1.12	Q V				
11+55	0.7510	1.13	Q V				
12+ 0	0.7588	1.14	Q V				
12+ 5	0.7668	1.15	Q V				
12+10	0.7748	1.17	Q V				
12+15	0.7831	1.20	Q V				
12+20	0.7915	1.21	Q V				
12+25	0.7999	1.23	Q V				
12+30	0.8085	1.24	Q V				
12+35	0.8171	1.26	Q V				
12+40	0.8259	1.27	Q V				
12+45	0.8347	1.28	Q V				
12+50	0.8437	1.30	Q V				
12+55	0.8527	1.32	Q V				
13+ 0	0.8619	1.33	Q V				
13+ 5	0.8712	1.35	Q V				
13+10	0.8806	1.37	Q V				
13+15	0.8901	1.39	Q V				
13+20	0.8998	1.41	Q V				
13+25	0.9096	1.43	Q V				
13+30	0.9196	1.45	Q V				
13+35	0.9297	1.47	Q V				
13+40	0.9400	1.49	Q V				
13+45	0.9505	1.52	Q V				
13+50	0.9611	1.54	Q V				
13+55	0.9719	1.57	Q V				
14+ 0	0.9829	1.60	Q V				
14+ 5	0.9941	1.63	Q V				
14+10	1.0055	1.66	Q V				
14+15	1.0172	1.69	Q V				
14+20	1.0291	1.73	Q V				
14+25	1.0413	1.77	Q V				
14+30	1.0538	1.81	Q V				

14+35	1.0666	1.86	Q	V			
14+40	1.0797	1.90	Q	V			
14+45	1.0932	1.96	Q	V			
14+50	1.1070	2.01	Q	V			
14+55	1.1213	2.08	Q	V			
15+ 0	1.1361	2.14	Q	V			
15+ 5	1.1514	2.22	Q	V			
15+10	1.1672	2.30	Q	V			
15+15	1.1838	2.40	Q	V			
15+20	1.2011	2.51	Q	V			
15+25	1.2189	2.60	Q	V			
15+30	1.2364	2.54	Q	V			
15+35	1.2533	2.45	Q	V			
15+40	1.2710	2.57	Q	V			
15+45	1.2905	2.82	Q	V			
15+50	1.3126	3.21	Q	V			
15+55	1.3389	3.82	Q	V			
16+ 0	1.3729	4.94	Q	V			
16+ 5	1.4266	7.80	Q	V			
16+10	1.5231	14.01	Q	V			
16+15	1.6238	14.62	Q	V			
16+20	1.6776	7.81	Q	V			
16+25	1.7069	4.27	Q	V			
16+30	1.7286	3.15	Q	V			
16+35	1.7480	2.82	Q	V			
16+40	1.7653	2.51	Q	V			
16+45	1.7813	2.31	Q	V			
16+50	1.7961	2.15	Q	V			
16+55	1.8100	2.02	Q	V			
17+ 0	1.8232	1.91	Q	V			
17+ 5	1.8357	1.82	Q	V			
17+10	1.8476	1.73	Q	V			
17+15	1.8591	1.66	Q	V			
17+20	1.8701	1.60	Q	V			
17+25	1.8807	1.54	Q	V			
17+30	1.8910	1.49	Q	V			
17+35	1.9010	1.45	Q	V			
17+40	1.9107	1.41	Q	V			
17+45	1.9201	1.37	Q	V			
17+50	1.9293	1.33	Q	V			
17+55	1.9382	1.30	Q	V			
18+ 0	1.9470	1.27	Q	V			
18+ 5	1.9555	1.24	Q	V			
18+10	1.9638	1.21	Q	V			
18+15	1.9719	1.17	Q	V			
18+20	1.9798	1.14	Q	V			
18+25	1.9875	1.12	Q	V			
18+30	1.9950	1.10	Q	V			
18+35	2.0025	1.08	Q	V			
18+40	2.0098	1.06	Q	V			
18+45	2.0169	1.04	Q	V			
18+50	2.0240	1.03	Q	V			
18+55	2.0310	1.01	Q	V			
19+ 0	2.0378	0.99	Q	V			
19+ 5	2.0446	0.98	Q	V			
19+10	2.0512	0.97	Q	V			
19+15	2.0578	0.95	Q	V			
19+20	2.0642	0.94	Q	V			
19+25	2.0706	0.93	Q	V			

19+30	2.0769	0.92	Q			V	
19+35	2.0832	0.90	Q			V	
19+40	2.0893	0.89	Q			V	
19+45	2.0954	0.88	Q			V	
19+50	2.1014	0.87	Q			V	
19+55	2.1073	0.86	Q			V	
20+ 0	2.1132	0.85	Q			V	
20+ 5	2.1190	0.84	Q			V	
20+10	2.1248	0.83	Q			V	
20+15	2.1304	0.83	Q			V	
20+20	2.1361	0.82	Q			V	
20+25	2.1416	0.81	Q			V	
20+30	2.1472	0.80	Q			V	
20+35	2.1526	0.79	Q			V	
20+40	2.1580	0.79	Q			V	
20+45	2.1634	0.78	Q			V	
20+50	2.1687	0.77	Q			V	
20+55	2.1740	0.76	Q			V	
21+ 0	2.1792	0.76	Q			V	
21+ 5	2.1844	0.75	Q			V	
21+10	2.1895	0.75	Q			V	
21+15	2.1946	0.74	Q			V	
21+20	2.1997	0.73	Q			V	
21+25	2.2047	0.73	Q			V	
21+30	2.2096	0.72	Q			V	
21+35	2.2146	0.72	Q			V	
21+40	2.2195	0.71	Q			V	
21+45	2.2243	0.70	Q			V	
21+50	2.2291	0.70	Q			V	
21+55	2.2339	0.69	Q			V	
22+ 0	2.2387	0.69	Q			V	
22+ 5	2.2434	0.68	Q			V	
22+10	2.2481	0.68	Q			V	
22+15	2.2527	0.67	Q			V	
22+20	2.2573	0.67	Q			V	
22+25	2.2619	0.67	Q			V	
22+30	2.2665	0.66	Q			V	
22+35	2.2710	0.66	Q			V	
22+40	2.2755	0.65	Q			V	
22+45	2.2799	0.65	Q			V	
22+50	2.2844	0.64	Q			V	
22+55	2.2888	0.64	Q			V	
23+ 0	2.2932	0.64	Q			V	
23+ 5	2.2975	0.63	Q			V	
23+10	2.3019	0.63	Q			V	
23+15	2.3062	0.63	Q			V	
23+20	2.3104	0.62	Q			V	
23+25	2.3147	0.62	Q			V	
23+30	2.3189	0.61	Q			V	
23+35	2.3231	0.61	Q			V	
23+40	2.3273	0.61	Q			V	
23+45	2.3315	0.60	Q			V	
23+50	2.3356	0.60	Q			V	
23+55	2.3397	0.60	Q			V	
24+ 0	2.3438	0.59	Q			V	
24+ 5	2.3476	0.56	Q			V	
24+10	2.3501	0.36	Q			V	
24+15	2.3510	0.12	Q			V	
24+20	2.3512	0.03	Q			V	

24+25	2.3512	0.01	Q				V
24+30	2.3513	0.00	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT AREA A7
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
2.25	1	1.20
Rainfall data for year 100		
2.25	6	3.00
Rainfall data for year 100		
2.25	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	2.25	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.23	0.100	56.0	56.0	7.86	0.266
2.02	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.135 (hours)
++
Watershed area = 2.25(Ac.)
Catchment Lag time = 0.108 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 77.1605
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 2.25(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 27.21 (CFS))	
1	10.561	2.874
2	60.970	13.717
3	92.932	8.697
4	98.645	1.555
5	100.000	0.369

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5860	0.1419
3	0.6891	0.1032
4	0.7732	0.0840
5	0.8454	0.0722

6	0.9093	0.0640
7	0.9672	0.0578
8	1.0202	0.0531
9	1.0694	0.0492
10	1.1155	0.0460
11	1.1588	0.0433
12	1.1999	0.0410
13	1.2500	0.0501
14	1.2983	0.0483
15	1.3449	0.0466
16	1.3901	0.0451
17	1.4339	0.0438
18	1.4764	0.0425
19	1.5178	0.0414
20	1.5581	0.0403
21	1.5975	0.0394
22	1.6360	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8843	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9816	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5150	0.0253
52	2.5401	0.0251
53	2.5649	0.0249
54	2.5896	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6622	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8020	0.0228
64	2.8246	0.0227

65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9136	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1623	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5882	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8406	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160

124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0774	0.0154
134	4.0927	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2131	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5415	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5826	0.0137
169	4.5962	0.0136
170	4.6098	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6771	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7566	0.0132
182	4.7697	0.0131

183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1235	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3151	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4199	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114

242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5902	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7337	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8737	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9372	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9687	0.0105
286	5.9791	0.0105
287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094

8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114

67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156

126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0403	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430

185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0640	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0971
192	0.1419	0.0061	0.1358
193	0.4441	0.0061	0.4380
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128

244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 7.59(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

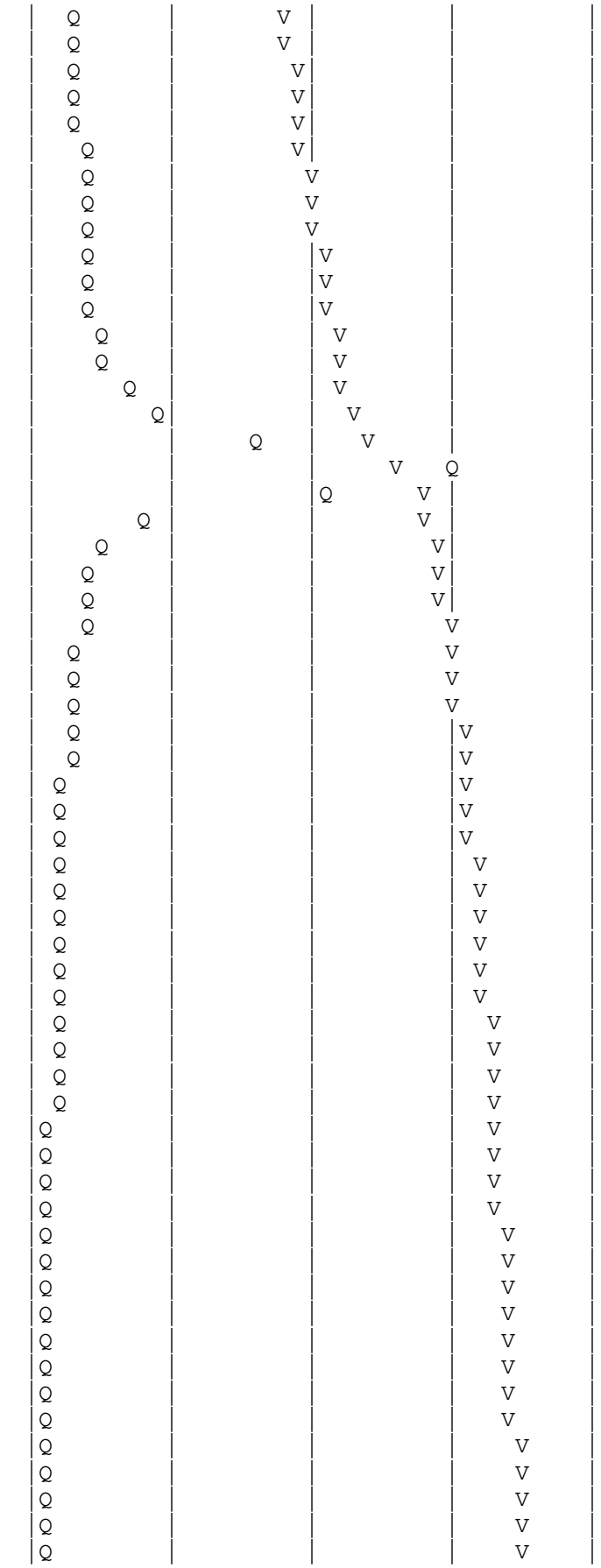
Hydrograph in 5 Minute intervals ((CFS))

Time(h+m) Volume Ac.Ft Q(CFS) 0 2.5 5.0 7.5 10.0

0+ 5	0.0002	0.03	Q				
0+10	0.0012	0.15	Q				
0+15	0.0029	0.24	Q				
0+20	0.0046	0.25	VQ				
0+25	0.0063	0.25	VQ				
0+30	0.0081	0.26	VQ				
0+35	0.0099	0.26	VQ				
0+40	0.0116	0.26	VQ				
0+45	0.0134	0.26	VQ				
0+50	0.0152	0.26	VQ				
0+55	0.0170	0.26	VQ				
1+ 0	0.0187	0.26	VQ				
1+ 5	0.0205	0.26	VQ				
1+10	0.0223	0.26	VQ				
1+15	0.0241	0.26	VQ				
1+20	0.0259	0.26	|Q				
1+25	0.0277	0.26	|Q				
1+30	0.0296	0.26	|Q				
1+35	0.0314	0.26	|Q				
1+40	0.0332	0.27	|Q				
1+45	0.0350	0.27	|Q				
1+50	0.0369	0.27	|Q				
1+55	0.0387	0.27	|Q				
2+ 0	0.0406	0.27	|Q				
2+ 5	0.0424	0.27	|Q				
2+10	0.0443	0.27	|Q				
2+15	0.0461	0.27	|Q				
2+20	0.0480	0.27	|Q				
2+25	0.0499	0.27	|Q				
2+30	0.0518	0.27	|QV				
2+35	0.0536	0.27	|QV				
2+40	0.0555	0.27	|QV				
2+45	0.0574	0.28	|QV				
2+50	0.0593	0.28	|QV				
2+55	0.0612	0.28	|QV				
3+ 0	0.0632	0.28	|QV				
3+ 5	0.0651	0.28	|QV				
3+10	0.0670	0.28	|QV				
3+15	0.0689	0.28	|QV				
3+20	0.0709	0.28	|QV				
3+25	0.0728	0.28	|QV				
3+30	0.0748	0.28	|QV				
3+35	0.0767	0.28	|Q V				
3+40	0.0787	0.29	|Q V				
3+45	0.0807	0.29	|Q V				
3+50	0.0827	0.29	|Q V				
3+55	0.0847	0.29	|Q V				
4+ 0	0.0866	0.29	|Q V				
4+ 5	0.0886	0.29	|Q V				
4+10	0.0907	0.29	|Q V				
4+15	0.0927	0.29	|Q V				
4+20	0.0947	0.29	|Q V				
4+25	0.0967	0.29	|Q V				
4+30	0.0987	0.30	|Q V				
4+35	0.1008	0.30	|Q V				
4+40	0.1028	0.30	|Q V				
4+45	0.1049	0.30	|Q V				
4+50	0.1070	0.30	|Q V				

4+55	0.1090	0.30	Q V	|	|	|	|
5+ 0	0.1111	0.30	Q V	|	|	|	|
5+ 5	0.1132	0.30	Q V	|	|	|	|
5+10	0.1153	0.30	Q V	|	|	|	|
5+15	0.1174	0.31	Q V	|	|	|	|
5+20	0.1195	0.31	Q V	|	|	|	|
5+25	0.1216	0.31	Q V	|	|	|	|
5+30	0.1238	0.31	Q V	|	|	|	|
5+35	0.1259	0.31	Q V	|	|	|	|
5+40	0.1280	0.31	Q V	|	|	|	|
5+45	0.1302	0.31	Q V	|	|	|	|
5+50	0.1324	0.31	Q V	|	|	|	|
5+55	0.1345	0.32	Q V	|	|	|	|
6+ 0	0.1367	0.32	Q V	|	|	|	|
6+ 5	0.1389	0.32	Q V	|	|	|	|
6+10	0.1411	0.32	Q V	|	|	|	|
6+15	0.1433	0.32	Q V	|	|	|	|
6+20	0.1455	0.32	Q V	|	|	|	|
6+25	0.1477	0.32	Q V	|	|	|	|
6+30	0.1500	0.32	Q V	|	|	|	|
6+35	0.1522	0.33	Q V	|	|	|	|
6+40	0.1545	0.33	Q V	|	|	|	|
6+45	0.1568	0.33	Q V	|	|	|	|
6+50	0.1590	0.33	Q V	|	|	|	|
6+55	0.1613	0.33	Q V	|	|	|	|
7+ 0	0.1636	0.33	Q V	|	|	|	|
7+ 5	0.1659	0.33	Q V	|	|	|	|
7+10	0.1682	0.34	Q V	|	|	|	|
7+15	0.1706	0.34	Q V	|	|	|	|
7+20	0.1729	0.34	Q V	|	|	|	|
7+25	0.1752	0.34	Q V	|	|	|	|
7+30	0.1776	0.34	Q V	|	|	|	|
7+35	0.1800	0.34	Q V	|	|	|	|
7+40	0.1824	0.35	Q V	|	|	|	|
7+45	0.1848	0.35	Q V	|	|	|	|
7+50	0.1872	0.35	Q V	|	|	|	|
7+55	0.1896	0.35	Q V	|	|	|	|
8+ 0	0.1920	0.35	Q V	|	|	|	|
8+ 5	0.1945	0.35	Q V	|	|	|	|
8+10	0.1969	0.36	Q V	|	|	|	|
8+15	0.1994	0.36	Q V	|	|	|	|
8+20	0.2019	0.36	Q V	|	|	|	|
8+25	0.2044	0.36	Q V	|	|	|	|
8+30	0.2069	0.36	Q V	|	|	|	|
8+35	0.2094	0.37	Q V	|	|	|	|
8+40	0.2119	0.37	Q V	|	|	|	|
8+45	0.2145	0.37	Q V	|	|	|	|
8+50	0.2171	0.37	Q V	|	|	|	|
8+55	0.2196	0.37	Q V	|	|	|	|
9+ 0	0.2222	0.38	Q V	|	|	|	|
9+ 5	0.2248	0.38	Q V	|	|	|	|
9+10	0.2275	0.38	Q V	|	|	|	|
9+15	0.2301	0.38	Q V	|	|	|	|
9+20	0.2328	0.39	Q V	|	|	|	|
9+25	0.2354	0.39	Q V	|	|	|	|
9+30	0.2381	0.39	Q V	|	|	|	|
9+35	0.2408	0.39	Q V	|	|	|	|
9+40	0.2436	0.40	Q V	|	|	|	|
9+45	0.2463	0.40	Q V	|	|	|	|

9+50	0.2491	0.40	Q	V			
9+55	0.2518	0.40	Q	V			
10+ 0	0.2546	0.41	Q	V			
10+ 5	0.2575	0.41	Q	V			
10+10	0.2603	0.41	Q	V			
10+15	0.2632	0.41	Q	V			
10+20	0.2660	0.42	Q	V			
10+25	0.2689	0.42	Q	V			
10+30	0.2718	0.42	Q	V			
10+35	0.2748	0.43	Q	V			
10+40	0.2777	0.43	Q	V			
10+45	0.2807	0.43	Q	V			
10+50	0.2837	0.44	Q	V			
10+55	0.2868	0.44	Q	V			
11+ 0	0.2898	0.44	Q	V			
11+ 5	0.2929	0.45	Q	V			
11+10	0.2960	0.45	Q	V			
11+15	0.2991	0.45	Q	V			
11+20	0.3023	0.46	Q	V			
11+25	0.3055	0.46	Q	V			
11+30	0.3087	0.47	Q	V			
11+35	0.3119	0.47	Q	V			
11+40	0.3152	0.48	Q	V			
11+45	0.3185	0.48	Q	V			
11+50	0.3219	0.48	Q	V			
11+55	0.3252	0.49	Q	V			
12+ 0	0.3286	0.49	Q	V			
12+ 5	0.3321	0.50	Q	V			
12+10	0.3356	0.51	Q	V			
12+15	0.3392	0.52	Q	V			
12+20	0.3428	0.53	Q	V			
12+25	0.3465	0.53	Q	V			
12+30	0.3502	0.54	Q	V			
12+35	0.3539	0.54	Q	V			
12+40	0.3577	0.55	Q	V			
12+45	0.3615	0.56	Q	V			
12+50	0.3654	0.56	Q	V			
12+55	0.3693	0.57	Q	V			
13+ 0	0.3733	0.58	Q	V			
13+ 5	0.3774	0.58	Q	V			
13+10	0.3814	0.59	Q	V			
13+15	0.3856	0.60	Q	V			
13+20	0.3898	0.61	Q	V			
13+25	0.3940	0.62	Q	V			
13+30	0.3984	0.63	Q	V			
13+35	0.4028	0.64	Q	V			
13+40	0.4072	0.65	Q	V			
13+45	0.4118	0.66	Q	V			
13+50	0.4164	0.67	Q	V			
13+55	0.4211	0.68	Q	V			
14+ 0	0.4258	0.69	Q	V			
14+ 5	0.4307	0.71	Q	V			
14+10	0.4357	0.72	Q	V			
14+15	0.4408	0.74	Q	V			
14+20	0.4460	0.75	Q	V			
14+25	0.4513	0.77	Q	V			
14+30	0.4567	0.79	Q	V			
14+35	0.4623	0.81	Q	V			
14+40	0.4680	0.83	Q	V			

14+45	0.4739	0.85	
14+50	0.4799	0.88	
14+55	0.4862	0.91	
15+ 0	0.4926	0.94	
15+ 5	0.4993	0.97	
15+10	0.5063	1.01	
15+15	0.5135	1.05	
15+20	0.5211	1.10	
15+25	0.5289	1.13	
15+30	0.5363	1.07	
15+35	0.5435	1.06	
15+40	0.5514	1.15	
15+45	0.5602	1.27	
15+50	0.5704	1.48	
15+55	0.5826	1.78	
16+ 0	0.5992	2.40	
16+ 5	0.6273	4.09	
16+10	0.6796	7.59	
16+15	0.7159	5.27	
16+20	0.7313	2.24	
16+25	0.7411	1.42	
16+30	0.7493	1.19	
16+35	0.7571	1.13	
16+40	0.7642	1.04	
16+45	0.7709	0.96	
16+50	0.7771	0.90	
16+55	0.7829	0.85	
17+ 0	0.7884	0.80	
17+ 5	0.7937	0.76	
17+10	0.7987	0.73	
17+15	0.8036	0.70	
17+20	0.8082	0.68	
17+25	0.8127	0.65	
17+30	0.8171	0.63	
17+35	0.8214	0.62	
17+40	0.8255	0.60	
17+45	0.8295	0.58	
17+50	0.8334	0.57	
17+55	0.8372	0.55	
18+ 0	0.8409	0.54	
18+ 5	0.8446	0.53	
18+10	0.8481	0.51	
18+15	0.8515	0.50	
18+20	0.8549	0.49	
18+25	0.8582	0.48	
18+30	0.8614	0.47	
18+35	0.8646	0.46	
18+40	0.8677	0.45	
18+45	0.8708	0.45	
18+50	0.8738	0.44	
18+55	0.8768	0.43	
19+ 0	0.8797	0.43	
19+ 5	0.8826	0.42	
19+10	0.8855	0.41	
19+15	0.8883	0.41	
19+20	0.8910	0.40	
19+25	0.8938	0.40	
19+30	0.8965	0.39	
19+35	0.8991	0.39	

19+40	0.9018	0.38	Q	|	|	|	V |
19+45	0.9044	0.38	Q	|	|	|	V |
19+50	0.9070	0.37	Q	|	|	|	V |
19+55	0.9095	0.37	Q	|	|	|	V |
20+ 0	0.9120	0.37	Q	|	|	|	V |
20+ 5	0.9145	0.36	Q	|	|	|	V |
20+10	0.9170	0.36	Q	|	|	|	V |
20+15	0.9194	0.35	Q	|	|	|	V |
20+20	0.9218	0.35	Q	|	|	|	V |
20+25	0.9242	0.35	Q	|	|	|	V |
20+30	0.9266	0.34	Q	|	|	|	V |
20+35	0.9289	0.34	Q	|	|	|	V |
20+40	0.9313	0.34	Q	|	|	|	V |
20+45	0.9336	0.33	Q	|	|	|	V |
20+50	0.9358	0.33	Q	|	|	|	V |
20+55	0.9381	0.33	Q	|	|	|	V |
21+ 0	0.9404	0.33	Q	|	|	|	V |
21+ 5	0.9426	0.32	Q	|	|	|	V |
21+10	0.9448	0.32	Q	|	|	|	V |
21+15	0.9470	0.32	Q	|	|	|	V |
21+20	0.9491	0.31	Q	|	|	|	V |
21+25	0.9513	0.31	Q	|	|	|	V |
21+30	0.9534	0.31	Q	|	|	|	V |
21+35	0.9555	0.31	Q	|	|	|	V |
21+40	0.9576	0.31	Q	|	|	|	V |
21+45	0.9597	0.30	Q	|	|	|	V |
21+50	0.9618	0.30	Q	|	|	|	V |
21+55	0.9638	0.30	Q	|	|	|	V |
22+ 0	0.9659	0.30	Q	|	|	|	V |
22+ 5	0.9679	0.29	Q	|	|	|	V |
22+10	0.9699	0.29	Q	|	|	|	V |
22+15	0.9719	0.29	Q	|	|	|	V |
22+20	0.9739	0.29	Q	|	|	|	V |
22+25	0.9759	0.29	Q	|	|	|	V |
22+30	0.9778	0.28	Q	|	|	|	V |
22+35	0.9798	0.28	Q	|	|	|	V |
22+40	0.9817	0.28	Q	|	|	|	V |
22+45	0.9836	0.28	Q	|	|	|	V |
22+50	0.9855	0.28	Q	|	|	|	V |
22+55	0.9874	0.28	Q	|	|	|	V |
23+ 0	0.9893	0.27	Q	|	|	|	V|
23+ 5	0.9912	0.27	Q	|	|	|	V|
23+10	0.9930	0.27	Q	|	|	|	V|
23+15	0.9949	0.27	Q	|	|	|	V|
23+20	0.9967	0.27	Q	|	|	|	V|
23+25	0.9986	0.27	Q	|	|	|	V|
23+30	1.0004	0.26	Q	|	|	|	V|
23+35	1.0022	0.26	Q	|	|	|	V|
23+40	1.0040	0.26	Q	|	|	|	V|
23+45	1.0058	0.26	Q	|	|	|	V|
23+50	1.0076	0.26	Q	|	|	|	V|
23+55	1.0093	0.26	Q	|	|	|	V|
24+ 0	1.0111	0.26	Q	|	|	|	V|
24+ 5	1.0126	0.23	Q	|	|	|	V|
24+10	1.0133	0.10	Q	|	|	|	V|
24+15	1.0135	0.02	Q	|	|	|	V|
24+20	1.0135	0.00	Q	|	|	|	V|

APPENDIX C.3: UNIT HYDROGRAPH ANALYSIS, AREAS "B"

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA B1
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
4.26	1	1.20
Rainfall data for year 100		
4.26	6	3.00
Rainfall data for year 100		
4.26	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	4.26	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.43	0.100	56.0	56.0	7.86	0.266
3.83	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.131 (hours)
++
Watershed area = 4.26(Ac.)
Catchment Lag time = 0.105 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 79.5165
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 4.26(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 51.52 (CFS))	
1	11.179	5.759
2	63.305	26.855
3	93.805	15.714
4	98.810	2.578
5	100.000	0.613

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7731	0.0840
5	0.8453	0.0722

6	0.9092	0.0639
7	0.9671	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1154	0.0460
11	1.1587	0.0433
12	1.1998	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3448	0.0466
16	1.3900	0.0451
17	1.4338	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7104	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0130	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4120	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227

65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9211	0.0160

124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131

183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114

242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094

8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114

67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156

126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0404	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430

185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0639	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0971
192	0.1419	0.0061	0.1358
193	0.4440	0.0061	0.4379
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128

244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 14.63(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m) Volume Ac.Ft Q(CFS) 0 5.0 10.0 15.0 20.0

0+ 5	0.0004	0.05	Q				
0+10	0.0025	0.30	Q				
0+15	0.0056	0.45	Q				
0+20	0.0088	0.47	Q				
0+25	0.0121	0.48	Q				
0+30	0.0155	0.48	Q				
0+35	0.0188	0.48	Q				
0+40	0.0221	0.49	Q				
0+45	0.0255	0.49	Q				
0+50	0.0289	0.49	Q				
0+55	0.0322	0.49	Q				
1+ 0	0.0356	0.49	Q				
1+ 5	0.0390	0.49	Q				
1+10	0.0424	0.49	Q				
1+15	0.0458	0.49	Q				
1+20	0.0492	0.50	QV				
1+25	0.0527	0.50	QV				
1+30	0.0561	0.50	QV				
1+35	0.0595	0.50	|Q				
1+40	0.0630	0.50	|Q				
1+45	0.0665	0.50	|Q				
1+50	0.0699	0.50	|Q				
1+55	0.0734	0.51	|Q				
2+ 0	0.0769	0.51	|Q				
2+ 5	0.0804	0.51	|Q				
2+10	0.0840	0.51	|Q				
2+15	0.0875	0.51	|Q				
2+20	0.0910	0.51	|Q				
2+25	0.0946	0.52	|Q				
2+30	0.0981	0.52	|QV				
2+35	0.1017	0.52	|QV				
2+40	0.1053	0.52	|QV				
2+45	0.1089	0.52	|QV				
2+50	0.1125	0.52	|QV				
2+55	0.1161	0.53	|QV				
3+ 0	0.1197	0.53	|QV				
3+ 5	0.1234	0.53	|QV				
3+10	0.1270	0.53	|QV				
3+15	0.1307	0.53	|QV				
3+20	0.1344	0.53	|QV				
3+25	0.1380	0.54	|QV				
3+30	0.1417	0.54	|QV				
3+35	0.1455	0.54	|Q V				
3+40	0.1492	0.54	|Q V				
3+45	0.1529	0.54	|Q V				
3+50	0.1567	0.54	|Q V				
3+55	0.1604	0.55	|Q V				
4+ 0	0.1642	0.55	|Q V				
4+ 5	0.1680	0.55	|Q V				
4+10	0.1718	0.55	|Q V				
4+15	0.1756	0.55	|Q V				
4+20	0.1794	0.56	|Q V				
4+25	0.1833	0.56	|Q V				
4+30	0.1871	0.56	|Q V				
4+35	0.1910	0.56	|Q V				
4+40	0.1949	0.56	|Q V				
4+45	0.1988	0.57	|Q V				
4+50	0.2027	0.57	|Q V				

4+55	0.2066	0.57	Q V	|	|	|	|
5+ 0	0.2105	0.57	Q V	|	|	|	|
5+ 5	0.2145	0.57	Q V	|	|	|	|
5+10	0.2185	0.58	Q V	|	|	|	|
5+15	0.2224	0.58	Q V	|	|	|	|
5+20	0.2264	0.58	Q V	|	|	|	|
5+25	0.2305	0.58	Q V	|	|	|	|
5+30	0.2345	0.59	Q V	|	|	|	|
5+35	0.2385	0.59	Q V	|	|	|	|
5+40	0.2426	0.59	Q V	|	|	|	|
5+45	0.2467	0.59	Q V	|	|	|	|
5+50	0.2508	0.59	Q V	|	|	|	|
5+55	0.2549	0.60	Q V	|	|	|	|
6+ 0	0.2590	0.60	Q V	|	|	|	|
6+ 5	0.2632	0.60	Q V	|	|	|	|
6+10	0.2673	0.60	Q V	|	|	|	|
6+15	0.2715	0.61	Q V	|	|	|	|
6+20	0.2757	0.61	Q V	|	|	|	|
6+25	0.2799	0.61	Q V	|	|	|	|
6+30	0.2841	0.61	Q V	|	|	|	|
6+35	0.2884	0.62	Q V	|	|	|	|
6+40	0.2927	0.62	Q V	|	|	|	|
6+45	0.2970	0.62	Q V	|	|	|	|
6+50	0.3013	0.63	Q V	|	|	|	|
6+55	0.3056	0.63	Q V	|	|	|	|
7+ 0	0.3099	0.63	Q V	|	|	|	|
7+ 5	0.3143	0.63	Q V	|	|	|	|
7+10	0.3187	0.64	Q V	|	|	|	|
7+15	0.3231	0.64	Q V	|	|	|	|
7+20	0.3275	0.64	Q V	|	|	|	|
7+25	0.3320	0.65	Q V	|	|	|	|
7+30	0.3364	0.65	Q V	|	|	|	|
7+35	0.3409	0.65	Q V	|	|	|	|
7+40	0.3455	0.66	Q V	|	|	|	|
7+45	0.3500	0.66	Q V	|	|	|	|
7+50	0.3545	0.66	Q V	|	|	|	|
7+55	0.3591	0.67	Q V	|	|	|	|
8+ 0	0.3637	0.67	Q V	|	|	|	|
8+ 5	0.3684	0.67	Q V	|	|	|	|
8+10	0.3730	0.68	Q V	|	|	|	|
8+15	0.3777	0.68	Q V	|	|	|	|
8+20	0.3824	0.68	Q V	|	|	|	|
8+25	0.3871	0.69	Q V	|	|	|	|
8+30	0.3919	0.69	Q V	|	|	|	|
8+35	0.3967	0.69	Q V	|	|	|	|
8+40	0.4015	0.70	Q V	|	|	|	|
8+45	0.4063	0.70	Q V	|	|	|	|
8+50	0.4112	0.71	Q V	|	|	|	|
8+55	0.4160	0.71	Q V	|	|	|	|
9+ 0	0.4210	0.71	Q V	|	|	|	|
9+ 5	0.4259	0.72	Q V	|	|	|	|
9+10	0.4309	0.72	Q V	|	|	|	|
9+15	0.4359	0.73	Q V	|	|	|	|
9+20	0.4409	0.73	Q V	|	|	|	|
9+25	0.4460	0.74	Q V	|	|	|	|
9+30	0.4511	0.74	Q V	|	|	|	|
9+35	0.4562	0.74	Q V	|	|	|	|
9+40	0.4614	0.75	Q V	|	|	|	|
9+45	0.4666	0.75	Q V	|	|	|	|

9+50	0.4718	0.76	Q V				
9+55	0.4770	0.76	Q V				
10+ 0	0.4823	0.77	Q V				
10+ 5	0.4877	0.77	Q V				
10+10	0.4930	0.78	Q V				
10+15	0.4985	0.79	Q V				
10+20	0.5039	0.79	Q V				
10+25	0.5094	0.80	Q V				
10+30	0.5149	0.80	Q V				
10+35	0.5205	0.81	Q V				
10+40	0.5261	0.81	Q V				
10+45	0.5317	0.82	Q V				
10+50	0.5374	0.83	Q V				
10+55	0.5432	0.83	Q V				
11+ 0	0.5490	0.84	Q V				
11+ 5	0.5548	0.85	Q V				
11+10	0.5607	0.85	Q V				
11+15	0.5666	0.86	Q V				
11+20	0.5726	0.87	Q V				
11+25	0.5786	0.88	Q V				
11+30	0.5847	0.88	Q V				
11+35	0.5909	0.89	Q V				
11+40	0.5971	0.90	Q V				
11+45	0.6033	0.91	Q V				
11+50	0.6096	0.92	Q V				
11+55	0.6160	0.93	Q V				
12+ 0	0.6225	0.94	Q V				
12+ 5	0.6290	0.95	Q V				
12+10	0.6357	0.97	Q V				
12+15	0.6424	0.98	Q V				
12+20	0.6493	1.00	Q V				
12+25	0.6562	1.01	Q V				
12+30	0.6633	1.02	Q V				
12+35	0.6704	1.03	Q V				
12+40	0.6775	1.04	Q V				
12+45	0.6848	1.05	Q V				
12+50	0.6922	1.07	Q V				
12+55	0.6996	1.08	Q V				
13+ 0	0.7071	1.09	Q V				
13+ 5	0.7148	1.11	Q V				
13+10	0.7225	1.12	Q V				
13+15	0.7303	1.14	Q V				
13+20	0.7383	1.16	Q V				
13+25	0.7464	1.17	Q V				
13+30	0.7546	1.19	Q V				
13+35	0.7629	1.21	Q V				
13+40	0.7713	1.23	Q V				
13+45	0.7799	1.25	Q V				
13+50	0.7887	1.27	Q V				
13+55	0.7976	1.29	Q V				
14+ 0	0.8066	1.32	Q V				
14+ 5	0.8159	1.34	Q V				
14+10	0.8253	1.37	Q V				
14+15	0.8349	1.40	Q V				
14+20	0.8448	1.43	Q V				
14+25	0.8548	1.46	Q V				
14+30	0.8651	1.50	Q V				
14+35	0.8757	1.53	Q V				
14+40	0.8865	1.58	Q V				

14+45	0.8977	1.62	Q		V			
14+50	0.9091	1.67	Q		V			
14+55	0.9210	1.72	Q		V			
15+ 0	0.9332	1.78	Q		V			
15+ 5	0.9459	1.84	Q		V			
15+10	0.9591	1.92	Q		V			
15+15	0.9729	2.00	Q		V			
15+20	0.9873	2.10	Q		V			
15+25	1.0021	2.14	Q		V			
15+30	1.0159	2.01	Q		V			
15+35	1.0297	2.00	Q		V			
15+40	1.0447	2.18	Q		V			
15+45	1.0613	2.41	Q		V			
15+50	1.0807	2.81	Q		V			
15+55	1.1040	3.39	Q		V			
16+ 0	1.1357	4.60	Q		V			
16+ 5	1.1901	7.90	Q	Q	V			
16+10	1.2909	14.63	Q		V	Q		
16+15	1.3576	9.68	Q	Q	V			
16+20	1.3856	4.06	Q	Q	V			
16+25	1.4038	2.64	Q	Q	V			
16+30	1.4193	2.26	Q	Q	V			
16+35	1.4340	2.13	Q	Q	V			
16+40	1.4475	1.96	Q	Q	V			
16+45	1.4600	1.82	Q	Q	V			
16+50	1.4717	1.70	Q	Q	V			
16+55	1.4827	1.60	Q	Q	V			
17+ 0	1.4931	1.52	Q	Q	V			
17+ 5	1.5031	1.45	Q	Q	V			
17+10	1.5126	1.38	Q	Q	V			
17+15	1.5218	1.33	Q	Q	V			
17+20	1.5306	1.28	Q	Q	V			
17+25	1.5391	1.24	Q	Q	V			
17+30	1.5474	1.20	Q	Q	V			
17+35	1.5554	1.16	Q	Q	V			
17+40	1.5632	1.13	Q	Q	V			
17+45	1.5708	1.10	Q	Q	V			
17+50	1.5782	1.07	Q	Q	V			
17+55	1.5854	1.05	Q	Q	V			
18+ 0	1.5925	1.02	Q	Q	V			
18+ 5	1.5993	1.00	Q	Q	V			
18+10	1.6060	0.97	Q	Q	V			
18+15	1.6125	0.94	Q	Q	V			
18+20	1.6188	0.92	Q	Q	V			
18+25	1.6251	0.90	Q	Q	V			
18+30	1.6312	0.89	Q	Q	V			
18+35	1.6372	0.87	Q	Q	V			
18+40	1.6431	0.86	Q	Q	V			
18+45	1.6489	0.84	Q	Q	V			
18+50	1.6546	0.83	Q	Q	V			
18+55	1.6603	0.82	Q	Q	V			
19+ 0	1.6658	0.81	Q	Q	V			
19+ 5	1.6713	0.79	Q	Q	V			
19+10	1.6767	0.78	Q	Q	V			
19+15	1.6820	0.77	Q	Q	V			
19+20	1.6872	0.76	Q	Q	V			
19+25	1.6924	0.75	Q	Q	V			
19+30	1.6975	0.74	Q	Q	V			
19+35	1.7026	0.73	Q	Q	V			

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  19+40       1.7076      0.72  |Q          |           |           |     V     |
  19+45       1.7125      0.72  |Q          |           |           |     V     |
  19+50       1.7174      0.71  |Q          |           |           |     V     |
  19+55       1.7222      0.70  |Q          |           |           |     V     |
  20+ 0       1.7270      0.69  |Q          |           |           |     V     |
  20+ 5       1.7317      0.68  |Q          |           |           |      V    |
  20+10       1.7363      0.68  |Q          |           |           |      V    |
  20+15       1.7409      0.67  |Q          |           |           |      V    |
  20+20       1.7455      0.66  |Q          |           |           |      V    |
  20+25       1.7500      0.66  |Q          |           |           |      V    |
  20+30       1.7545      0.65  |Q          |           |           |      V    |
  20+35       1.7590      0.64  |Q          |           |           |      V    |
  20+40       1.7634      0.64  |Q          |           |           |      V    |
  20+45       1.7677      0.63  |Q          |           |           |      V    |
  20+50       1.7720      0.63  |Q          |           |           |      V    |
  20+55       1.7763      0.62  |Q          |           |           |       V   |
  21+ 0       1.7806      0.62  |Q          |           |           |       V   |
  21+ 5       1.7848      0.61  |Q          |           |           |       V   |
  21+10       1.7889      0.61  |Q          |           |           |       V   |
  21+15       1.7931      0.60  |Q          |           |           |       V   |
  21+20       1.7972      0.60  |Q          |           |           |       V   |
  21+25       1.8012      0.59  |Q          |           |           |       V   |
  21+30       1.8053      0.59  |Q          |           |           |       V   |
  21+35       1.8093      0.58  |Q          |           |           |       V   |
  21+40       1.8133      0.58  |Q          |           |           |       V   |
  21+45       1.8172      0.57  |Q          |           |           |       V   |
  21+50       1.8211      0.57  |Q          |           |           |       V   |
  21+55       1.8250      0.56  |Q          |           |           |        V  |
  22+ 0       1.8289      0.56  |Q          |           |           |        V  |
  22+ 5       1.8327      0.56  |Q          |           |           |        V  |
  22+10       1.8365      0.55  |Q          |           |           |        V  |
  22+15       1.8403      0.55  |Q          |           |           |        V  |
  22+20       1.8441      0.55  |Q          |           |           |        V  |
  22+25       1.8478      0.54  |Q          |           |           |        V  |
  22+30       1.8515      0.54  |Q          |           |           |        V  |
  22+35       1.8552      0.53  |Q          |           |           |        V  |
  22+40       1.8588      0.53  |Q          |           |           |        V  |
  22+45       1.8625      0.53  |Q          |           |           |        V  |
  22+50       1.8661      0.52  |Q          |           |           |        V  |
  22+55       1.8697      0.52  |Q          |           |           |        V  |
  23+ 0       1.8732      0.52  |Q          |           |           |         V |
  23+ 5       1.8768      0.51  |Q          |           |           |         V |
  23+10       1.8803      0.51  |Q          |           |           |         V |
  23+15       1.8838      0.51  |Q          |           |           |         V |
  23+20       1.8873      0.51  |Q          |           |           |         V |
  23+25       1.8907      0.50  |Q          |           |           |         V |
  23+30       1.8942      0.50  Q           |           |           |         V |
  23+35       1.8976      0.50  Q           |           |           |         V |
  23+40       1.9010      0.49  Q           |           |           |         V |
  23+45       1.9044      0.49  Q           |           |           |         V |
  23+50       1.9078      0.49  Q           |           |           |         V |
  23+55       1.9111      0.49  Q           |           |           |         V |
  24+ 0       1.9144      0.48  Q           |           |           |         V |
  24+ 5       1.9174      0.43  Q           |           |           |         V |
  24+10       1.9186      0.18  Q           |           |           |         V |
  24+15       1.9188      0.03  Q           |           |           |         V |
  24+20       1.9188      0.01  Q           |           |           |          V
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U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA B2
100-YEAR 24 HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
1.61	1	1.20
Rainfall data for year 100		
1.61	6	3.00
Rainfall data for year 100		
1.61	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	1.61	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.16	0.100	56.0	56.0	7.86	0.266
1.45	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.095 (hours)
++
Watershed area = 1.61(Ac.)
Catchment Lag time = 0.076 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 109.6491
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 1.61(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 19.47 (CFS))		
1	20.403	3.973
2	84.528	12.486
3	98.652	2.750
4	100.000	0.262

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5860	0.1419
3	0.6892	0.1032
4	0.7732	0.0840
5	0.8454	0.0722
6	0.9094	0.0640

7	0.9672	0.0578
8	1.0203	0.0531
9	1.0695	0.0492
10	1.1155	0.0460
11	1.1589	0.0433
12	1.1999	0.0410
13	1.2501	0.0501
14	1.2983	0.0483
15	1.3450	0.0466
16	1.3901	0.0451
17	1.4339	0.0438
18	1.4764	0.0425
19	1.5178	0.0414
20	1.5582	0.0403
21	1.5975	0.0394
22	1.6360	0.0385
23	1.6736	0.0376
24	1.7105	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8167	0.0347
28	1.8508	0.0341
29	1.8843	0.0335
30	1.9172	0.0330
31	1.9497	0.0324
32	1.9816	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1926	0.0289
40	2.2211	0.0286
41	2.2494	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5150	0.0253
52	2.5401	0.0251
53	2.5649	0.0249
54	2.5896	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6622	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8020	0.0228
64	2.8246	0.0227
65	2.8471	0.0225

66	2.8694	0.0223
67	2.8916	0.0222
68	2.9136	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1623	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2404	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5532	0.0176
102	3.5707	0.0175
103	3.5882	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8406	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159

125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0774	0.0154
134	4.0927	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2131	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3157	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5139	0.0139
164	4.5277	0.0138
165	4.5415	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5826	0.0137
169	4.5962	0.0136
170	4.6098	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6503	0.0135
174	4.6637	0.0134
175	4.6771	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7566	0.0132
182	4.7697	0.0131
183	4.7828	0.0131

184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8348	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1235	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2082	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3151	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3852	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4199	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114

243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5453	0.0113
247	5.5565	0.0113
248	5.5678	0.0112
249	5.5790	0.0112
250	5.5902	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7337	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8737	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9372	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9687	0.0105
286	5.9791	0.0105
287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094
8	0.0106	0.0012	0.0095

9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114
67	0.0129	0.0014	0.0115

68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156
126	0.0176	0.0019	0.0157

127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0403	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430
185	0.0410	0.0045	0.0366

186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0640	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0971
192	0.1419	0.0061	0.1358
193	0.4441	0.0061	0.4380
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0321
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128
244	0.0143	0.0016	0.0127

245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 6.18(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m) Volume Ac.Ft Q(CFS) 0 2.5 5.0 7.5 10.0

0+ 5	0.0003	0.04	Q	|	|	|	|
0+10	0.0013	0.15	Q	|	|	|	|
0+15	0.0025	0.18	Q	|	|	|	|
0+20	0.0038	0.18	Q	|	|	|	|
0+25	0.0050	0.18	Q	|	|	|	|
0+30	0.0063	0.18	Q	|	|	|	|
0+35	0.0076	0.18	Q	|	|	|	|
0+40	0.0088	0.18	Q	|	|	|	|
0+45	0.0101	0.18	Q	|	|	|	|
0+50	0.0114	0.18	Q	|	|	|	|
0+55	0.0126	0.19	Q	|	|	|	|
1+ 0	0.0139	0.19	Q	|	|	|	|
1+ 5	0.0152	0.19	Q	|	|	|	|
1+10	0.0165	0.19	Q	|	|	|	|
1+15	0.0178	0.19	Q	|	|	|	|
1+20	0.0191	0.19	QV	|	|	|	|
1+25	0.0204	0.19	QV	|	|	|	|
1+30	0.0217	0.19	QV	|	|	|	|
1+35	0.0230	0.19	QV	|	|	|	|
1+40	0.0243	0.19	QV	|	|	|	|
1+45	0.0256	0.19	QV	|	|	|	|
1+50	0.0269	0.19	QV	|	|	|	|
1+55	0.0282	0.19	QV	|	|	|	|
2+ 0	0.0296	0.19	QV	|	|	|	|
2+ 5	0.0309	0.19	QV	|	|	|	|
2+10	0.0322	0.19	QV	|	|	|	|
2+15	0.0335	0.19	QV	|	|	|	|
2+20	0.0349	0.19	QV	|	|	|	|
2+25	0.0362	0.20	QV	|	|	|	|
2+30	0.0376	0.20	Q V	|	|	|	|
2+35	0.0389	0.20	Q V	|	|	|	|
2+40	0.0403	0.20	Q V	|	|	|	|
2+45	0.0416	0.20	Q V	|	|	|	|
2+50	0.0430	0.20	Q V	|	|	|	|
2+55	0.0444	0.20	Q V	|	|	|	|
3+ 0	0.0458	0.20	Q V	|	|	|	|
3+ 5	0.0471	0.20	Q V	|	|	|	|
3+10	0.0485	0.20	Q V	|	|	|	|
3+15	0.0499	0.20	Q V	|	|	|	|
3+20	0.0513	0.20	Q V	|	|	|	|
3+25	0.0527	0.20	Q V	|	|	|	|
3+30	0.0541	0.20	Q V	|	|	|	|
3+35	0.0555	0.20	Q V	|	|	|	|
3+40	0.0569	0.20	Q V	|	|	|	|
3+45	0.0583	0.21	Q V	|	|	|	|
3+50	0.0597	0.21	Q V	|	|	|	|
3+55	0.0611	0.21	Q V	|	|	|	|
4+ 0	0.0626	0.21	Q V	|	|	|	|
4+ 5	0.0640	0.21	Q V	|	|	|	|
4+10	0.0654	0.21	Q V	|	|	|	|
4+15	0.0669	0.21	Q V	|	|	|	|
4+20	0.0683	0.21	Q V	|	|	|	|
4+25	0.0698	0.21	Q V	|	|	|	|
4+30	0.0713	0.21	Q V	|	|	|	|
4+35	0.0727	0.21	Q V	|	|	|	|
4+40	0.0742	0.21	Q V	|	|	|	|
4+45	0.0757	0.21	Q V	|	|	|	|
4+50	0.0771	0.21	Q V	|	|	|	|
4+55	0.0786	0.22	Q V	|	|	|	|

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5+ 0       0.0801      0.22  Q   V     |           |           |           |
5+ 5       0.0816      0.22  Q   V     |           |           |           |
5+10       0.0831      0.22  Q   V     |           |           |           |
5+15       0.0846      0.22  Q   V     |           |           |           |
5+20       0.0861      0.22  Q   V     |           |           |           |
5+25       0.0877      0.22  Q   V     |           |           |           |
5+30       0.0892      0.22  Q   V     |           |           |           |
5+35       0.0907      0.22  Q    V    |           |           |           |
5+40       0.0922      0.22  Q    V    |           |           |           |
5+45       0.0938      0.22  Q    V    |           |           |           |
5+50       0.0953      0.23  Q    V    |           |           |           |
5+55       0.0969      0.23  Q    V    |           |           |           |
6+ 0       0.0985      0.23  Q    V    |           |           |           |
6+ 5       0.1000      0.23  Q    V    |           |           |           |
6+10       0.1016      0.23  Q    V    |           |           |           |
6+15       0.1032      0.23  Q    V    |           |           |           |
6+20       0.1048      0.23  Q    V    |           |           |           |
6+25       0.1064      0.23  Q    V    |           |           |           |
6+30       0.1080      0.23  Q    V    |           |           |           |
6+35       0.1096      0.23  Q     V   |           |           |           |
6+40       0.1112      0.23  Q     V   |           |           |           |
6+45       0.1128      0.24  Q     V   |           |           |           |
6+50       0.1145      0.24  Q     V   |           |           |           |
6+55       0.1161      0.24  Q     V   |           |           |           |
7+ 0       0.1177      0.24  Q     V   |           |           |           |
7+ 5       0.1194      0.24  Q     V   |           |           |           |
7+10       0.1210      0.24  Q     V   |           |           |           |
7+15       0.1227      0.24  Q     V   |           |           |           |
7+20       0.1244      0.24  Q     V   |           |           |           |
7+25       0.1261      0.24  Q     V   |           |           |           |
7+30       0.1278      0.25  Q      V  |           |           |           |
7+35       0.1295      0.25  Q      V  |           |           |           |
7+40       0.1312      0.25  Q      V  |           |           |           |
7+45       0.1329      0.25  Q      V  |           |           |           |
7+50       0.1346      0.25  |Q     V  |           |           |           |
7+55       0.1364      0.25  |Q     V  |           |           |           |
8+ 0       0.1381      0.25  |Q     V  |           |           |           |
8+ 5       0.1399      0.25  |Q     V  |           |           |           |
8+10       0.1416      0.26  |Q     V  |           |           |           |
8+15       0.1434      0.26  |Q     V  |           |           |           |
8+20       0.1452      0.26  |Q      V |           |           |           |
8+25       0.1470      0.26  |Q      V |           |           |           |
8+30       0.1488      0.26  |Q      V |           |           |           |
8+35       0.1506      0.26  |Q      V |           |           |           |
8+40       0.1524      0.26  |Q      V |           |           |           |
8+45       0.1542      0.27  |Q      V |           |           |           |
8+50       0.1561      0.27  |Q      V |           |           |           |
8+55       0.1579      0.27  |Q      V |           |           |           |
9+ 0       0.1598      0.27  |Q      V |           |           |           |
9+ 5       0.1616      0.27  |Q      V |           |           |           |
9+10       0.1635      0.27  |Q       V|           |           |           |
9+15       0.1654      0.28  |Q       V|           |           |           |
9+20       0.1673      0.28  |Q       V|           |           |           |
9+25       0.1692      0.28  |Q       V|           |           |           |
9+30       0.1712      0.28  |Q       V|           |           |           |
9+35       0.1731      0.28  |Q       V|           |           |           |
9+40       0.1751      0.28  |Q       V|           |           |           |
9+45       0.1770      0.29  |Q       V|           |           |           |
9+50       0.1790      0.29  |Q       V|           |           |           |
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 9+55       0.1810      0.29  |Q       V|          |          |          |
10+ 0       0.1830      0.29  |Q        V          |          |          |
10+ 5       0.1850      0.29  |Q        V          |          |          |
10+10       0.1871      0.30  |Q        V          |          |          |
10+15       0.1891      0.30  |Q        V          |          |          |
10+20       0.1912      0.30  |Q        V          |          |          |
10+25       0.1933      0.30  |Q        V          |          |          |
10+30       0.1954      0.30  |Q        V          |          |          |
10+35       0.1975      0.31  |Q        V          |          |          |
10+40       0.1996      0.31  |Q        |V         |          |          |
10+45       0.2017      0.31  |Q        |V         |          |          |
10+50       0.2039      0.31  |Q        |V         |          |          |
10+55       0.2061      0.32  |Q        |V         |          |          |
11+ 0       0.2083      0.32  |Q        |V         |          |          |
11+ 5       0.2105      0.32  |Q        |V         |          |          |
11+10       0.2127      0.32  |Q        |V         |          |          |
11+15       0.2150      0.33  |Q        |V         |          |          |
11+20       0.2172      0.33  |Q        |V         |          |          |
11+25       0.2195      0.33  |Q        | V        |          |          |
11+30       0.2218      0.34  |Q        | V        |          |          |
11+35       0.2242      0.34  |Q        | V        |          |          |
11+40       0.2265      0.34  |Q        | V        |          |          |
11+45       0.2289      0.34  |Q        | V        |          |          |
11+50       0.2313      0.35  |Q        | V        |          |          |
11+55       0.2337      0.35  |Q        | V        |          |          |
12+ 0       0.2361      0.36  |Q        |  V       |          |          |
12+ 5       0.2386      0.36  |Q        |  V       |          |          |
12+10       0.2412      0.37  |Q        |  V       |          |          |
12+15       0.2437      0.37  |Q        |  V       |          |          |
12+20       0.2463      0.38  |Q        |  V       |          |          |
12+25       0.2490      0.38  |Q        |  V       |          |          |
12+30       0.2516      0.39  |Q        |  V       |          |          |
12+35       0.2543      0.39  |Q        |   V      |          |          |
12+40       0.2571      0.40  |Q        |   V      |          |          |
12+45       0.2598      0.40  |Q        |   V      |          |          |
12+50       0.2626      0.41  |Q        |   V      |          |          |
12+55       0.2654      0.41  |Q        |   V      |          |          |
13+ 0       0.2683      0.42  |Q        |   V      |          |          |
13+ 5       0.2712      0.42  |Q        |   V      |          |          |
13+10       0.2741      0.43  |Q        |    V     |          |          |
13+15       0.2771      0.43  |Q        |    V     |          |          |
13+20       0.2801      0.44  |Q        |    V     |          |          |
13+25       0.2832      0.44  |Q        |    V     |          |          |
13+30       0.2863      0.45  |Q        |    V     |          |          |
13+35       0.2895      0.46  |Q        |    V     |          |          |
13+40       0.2927      0.47  |Q        |     V    |          |          |
13+45       0.2960      0.47  |Q        |     V    |          |          |
13+50       0.2993      0.48  |Q        |     V    |          |          |
13+55       0.3027      0.49  |Q        |     V    |          |          |
14+ 0       0.3061      0.50  | Q       |     V    |          |          |
14+ 5       0.3096      0.51  | Q       |      V   |          |          |
14+10       0.3132      0.52  | Q       |      V   |          |          |
14+15       0.3169      0.53  | Q       |      V   |          |          |
14+20       0.3206      0.54  | Q       |      V   |          |          |
14+25       0.3245      0.56  | Q       |      V   |          |          |
14+30       0.3284      0.57  | Q       |       V  |          |          |
14+35       0.3324      0.58  | Q       |       V  |          |          |
14+40       0.3366      0.60  | Q       |       V  |          |          |
14+45       0.3408      0.62  | Q       |       V  |          |          |
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14+50	0.3452	0.64	Q		V			
14+55	0.3497	0.66	Q		V			
15+ 0	0.3544	0.68	Q		V			
15+ 5	0.3593	0.70	Q		V			
15+10	0.3643	0.74	Q		V			
15+15	0.3696	0.77	Q		V			
15+20	0.3752	0.81	Q		V			
15+25	0.3807	0.81	Q		V			
15+30	0.3858	0.74	Q		V			
15+35	0.3911	0.77	Q		V			
15+40	0.3970	0.85	Q		V			
15+45	0.4035	0.95	Q		V			
15+50	0.4113	1.13	Q		V			
15+55	0.4208	1.38	Q		V			
16+ 0	0.4342	1.95	Q		V			
16+ 5	0.4598	3.72		Q	V			
16+10	0.5024	6.18		Q	V			
16+15	0.5190	2.42	Q		V			
16+20	0.5268	1.14	Q		V			
16+25	0.5327	0.85	Q		V			
16+30	0.5385	0.84	Q		V			
16+35	0.5439	0.78	Q		V			
16+40	0.5489	0.72	Q		V			
16+45	0.5535	0.67	Q		V			
16+50	0.5578	0.63	Q		V			
16+55	0.5618	0.59	Q		V			
17+ 0	0.5657	0.56	Q		V			
17+ 5	0.5694	0.54	Q		V			
17+10	0.5730	0.51	Q		V			
17+15	0.5764	0.50	Q		V			
17+20	0.5797	0.48	Q		V			
17+25	0.5829	0.46	Q		V			
17+30	0.5859	0.45	Q		V			
17+35	0.5889	0.44	Q		V			
17+40	0.5919	0.42	Q		V			
17+45	0.5947	0.41	Q		V			
17+50	0.5975	0.40	Q		V			
17+55	0.6002	0.39	Q		V			
18+ 0	0.6028	0.38	Q		V			
18+ 5	0.6054	0.37	Q		V			
18+10	0.6079	0.36	Q		V			
18+15	0.6103	0.35	Q		V			
18+20	0.6127	0.35	Q		V			
18+25	0.6150	0.34	Q		V			
18+30	0.6173	0.33	Q		V			
18+35	0.6196	0.33	Q		V			
18+40	0.6218	0.32	Q		V			
18+45	0.6240	0.32	Q		V			
18+50	0.6261	0.31	Q		V			
18+55	0.6282	0.31	Q		V			
19+ 0	0.6303	0.30	Q		V			
19+ 5	0.6324	0.30	Q		V			
19+10	0.6344	0.29	Q		V			
19+15	0.6364	0.29	Q		V			
19+20	0.6384	0.29	Q		V			
19+25	0.6403	0.28	Q		V			
19+30	0.6423	0.28	Q		V			
19+35	0.6442	0.28	Q		V			
19+40	0.6460	0.27	Q		V			

19+45	0.6479	0.27	Q				V
19+50	0.6497	0.27	Q				V
19+55	0.6515	0.26	Q				V
20+ 0	0.6533	0.26	Q				V
20+ 5	0.6551	0.26	Q				V
20+10	0.6569	0.26	Q				V
20+15	0.6586	0.25	Q				V
20+20	0.6603	0.25	Q				V
20+25	0.6620	0.25	Q				V
20+30	0.6637	0.25	Q				V
20+35	0.6654	0.24	Q				V
20+40	0.6670	0.24	Q				V
20+45	0.6687	0.24	Q				V
20+50	0.6703	0.24	Q				V
20+55	0.6719	0.23	Q				V
21+ 0	0.6735	0.23	Q				V
21+ 5	0.6751	0.23	Q				V
21+10	0.6767	0.23	Q				V
21+15	0.6782	0.23	Q				V
21+20	0.6798	0.22	Q				V
21+25	0.6813	0.22	Q				V
21+30	0.6828	0.22	Q				V
21+35	0.6843	0.22	Q				V
21+40	0.6858	0.22	Q				V
21+45	0.6873	0.22	Q				V
21+50	0.6888	0.21	Q				V
21+55	0.6903	0.21	Q				V
22+ 0	0.6917	0.21	Q				V
22+ 5	0.6932	0.21	Q				V
22+10	0.6946	0.21	Q				V
22+15	0.6960	0.21	Q				V
22+20	0.6975	0.21	Q				V
22+25	0.6989	0.20	Q				V
22+30	0.7003	0.20	Q				V
22+35	0.7016	0.20	Q				V
22+40	0.7030	0.20	Q				V
22+45	0.7044	0.20	Q				V
22+50	0.7058	0.20	Q				V
22+55	0.7071	0.20	Q				V
23+ 0	0.7085	0.20	Q				V
23+ 5	0.7098	0.19	Q				V
23+10	0.7111	0.19	Q				V
23+15	0.7124	0.19	Q				V
23+20	0.7138	0.19	Q				V
23+25	0.7151	0.19	Q				V
23+30	0.7164	0.19	Q				V
23+35	0.7176	0.19	Q				V
23+40	0.7189	0.19	Q				V
23+45	0.7202	0.19	Q				V
23+50	0.7215	0.18	Q				V
23+55	0.7227	0.18	Q				V
24+ 0	0.7240	0.18	Q				V
24+ 5	0.7250	0.14	Q				V
24+10	0.7252	0.03	Q				V
24+15	0.7252	0.00	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA B3
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
5.30	1	1.20
Rainfall data for year 100		
5.30	6	3.00
Rainfall data for year 100		
5.30	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	5.30	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.53	0.100	56.0	56.0	7.86	0.266
4.77	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.156 (hours)
++
Watershed area = 5.30(Ac.)
Catchment Lag time = 0.125 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 66.7735
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 5.30(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 64.10 (CFS))	
1	8.016	5.138
2	49.840	26.808
3	87.198	23.945
4	97.393	6.535
5	99.209	1.164
6	100.000	0.507

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6890	0.1032
4	0.7731	0.0840

5	0.8453	0.0722
6	0.9092	0.0639
7	0.9670	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1153	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2498	0.0501
14	1.2981	0.0483
15	1.3448	0.0466
16	1.3899	0.0451
17	1.4337	0.0438
18	1.4762	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8165	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9171	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0129	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228

64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1224	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4820	0.0180
98	3.4999	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7080	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160

123	3.9210	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4440	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132

182	4.7696	0.0131
183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114

241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6678	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9476	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094

7	0.0106	0.0012	0.0094
8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114

66	0.0128	0.0014	0.0114
67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155

125	0.0175	0.0019	0.0156
126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0404	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0415

184	0.0483	0.0053	0.0430
185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0639	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0970
192	0.1419	0.0061	0.1358
193	0.4440	0.0061	0.4379
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130

243	0.0144	0.0016	0.0128
244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 16.13(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	5.0	10.0	15.0	20.0
0+ 5	0.0003	0.05	Q				
0+10	0.0024	0.30	Q				
0+15	0.0060	0.52	VQ				
0+20	0.0100	0.58	VQ				
0+25	0.0141	0.59	VQ				
0+30	0.0182	0.60	VQ				
0+35	0.0223	0.60	VQ				
0+40	0.0265	0.60	VQ				
0+45	0.0307	0.61	VQ				
0+50	0.0348	0.61	VQ				
0+55	0.0390	0.61	VQ				
1+ 0	0.0432	0.61	VQ				
1+ 5	0.0474	0.61	VQ				
1+10	0.0517	0.61	VQ				
1+15	0.0559	0.62	VQ				
1+20	0.0602	0.62	|Q				
1+25	0.0644	0.62	|Q				
1+30	0.0687	0.62	|Q				
1+35	0.0730	0.62	|Q				
1+40	0.0773	0.62	|Q				
1+45	0.0816	0.63	|Q				
1+50	0.0859	0.63	|Q				
1+55	0.0903	0.63	|Q				
2+ 0	0.0946	0.63	|Q				
2+ 5	0.0990	0.63	|Q				
2+10	0.1033	0.64	|Q				
2+15	0.1077	0.64	|Q				
2+20	0.1121	0.64	|Q				
2+25	0.1165	0.64	|Q				
2+30	0.1210	0.64	|QV				
2+35	0.1254	0.64	|QV				
2+40	0.1299	0.65	|QV				
2+45	0.1343	0.65	|QV				
2+50	0.1388	0.65	|QV				
2+55	0.1433	0.65	|QV				
3+ 0	0.1478	0.65	|QV				
3+ 5	0.1523	0.66	|QV				
3+10	0.1569	0.66	|QV				
3+15	0.1614	0.66	|QV				
3+20	0.1660	0.66	|QV				
3+25	0.1706	0.67	|QV				
3+30	0.1752	0.67	|QV				
3+35	0.1798	0.67	|Q V				
3+40	0.1844	0.67	|Q V				
3+45	0.1891	0.67	|Q V				
3+50	0.1937	0.68	|Q V				
3+55	0.1984	0.68	|Q V				
4+ 0	0.2031	0.68	|Q V				
4+ 5	0.2078	0.68	|Q V				
4+10	0.2125	0.69	|Q V				
4+15	0.2173	0.69	|Q V				
4+20	0.2220	0.69	|Q V				
4+25	0.2268	0.69	|Q V				
4+30	0.2316	0.70	|Q V				
4+35	0.2364	0.70	|Q V				
4+40	0.2412	0.70	|Q V				
4+45	0.2461	0.70	|Q V				

4+50	0.2509	0.71	Q V				
4+55	0.2558	0.71	Q V				
5+ 0	0.2607	0.71	Q V				
5+ 5	0.2656	0.71	Q V				
5+10	0.2705	0.72	Q V				
5+15	0.2755	0.72	Q V				
5+20	0.2805	0.72	Q V				
5+25	0.2855	0.72	Q V				
5+30	0.2905	0.73	Q V				
5+35	0.2955	0.73	Q V				
5+40	0.3005	0.73	Q V				
5+45	0.3056	0.74	Q V				
5+50	0.3107	0.74	Q V				
5+55	0.3158	0.74	Q V				
6+ 0	0.3209	0.74	Q V				
6+ 5	0.3261	0.75	Q V				
6+10	0.3313	0.75	Q V				
6+15	0.3365	0.75	Q V				
6+20	0.3417	0.76	Q V				
6+25	0.3469	0.76	Q V				
6+30	0.3522	0.76	Q V				
6+35	0.3575	0.77	Q V				
6+40	0.3628	0.77	Q V				
6+45	0.3681	0.77	Q V				
6+50	0.3734	0.78	Q V				
6+55	0.3788	0.78	Q V				
7+ 0	0.3842	0.78	Q V				
7+ 5	0.3897	0.79	Q V				
7+10	0.3951	0.79	Q V				
7+15	0.4006	0.80	Q V				
7+20	0.4061	0.80	Q V				
7+25	0.4116	0.80	Q V				
7+30	0.4172	0.81	Q V				
7+35	0.4227	0.81	Q V				
7+40	0.4284	0.81	Q V				
7+45	0.4340	0.82	Q V				
7+50	0.4397	0.82	Q V				
7+55	0.4454	0.83	Q V				
8+ 0	0.4511	0.83	Q V				
8+ 5	0.4568	0.84	Q V				
8+10	0.4626	0.84	Q V				
8+15	0.4684	0.84	Q V				
8+20	0.4743	0.85	Q V				
8+25	0.4801	0.85	Q V				
8+30	0.4860	0.86	Q V				
8+35	0.4920	0.86	Q V				
8+40	0.4979	0.87	Q V				
8+45	0.5039	0.87	Q V				
8+50	0.5100	0.88	Q V				
8+55	0.5161	0.88	Q V				
9+ 0	0.5222	0.89	Q V				
9+ 5	0.5283	0.89	Q V				
9+10	0.5345	0.90	Q V				
9+15	0.5407	0.90	Q V				
9+20	0.5470	0.91	Q V				
9+25	0.5532	0.91	Q V				
9+30	0.5596	0.92	Q V				
9+35	0.5659	0.92	Q V				
9+40	0.5724	0.93	Q V				

9+45	0.5788	0.94	Q	V			
9+50	0.5853	0.94	Q	V			
9+55	0.5918	0.95	Q	V			
10+ 0	0.5984	0.96	Q	V			
10+ 5	0.6050	0.96	Q	V			
10+10	0.6117	0.97	Q	V			
10+15	0.6184	0.98	Q	V			
10+20	0.6252	0.98	Q	V			
10+25	0.6320	0.99	Q	V			
10+30	0.6389	1.00	Q	V			
10+35	0.6458	1.00	Q	V			
10+40	0.6528	1.01	Q	V			
10+45	0.6598	1.02	Q	V			
10+50	0.6668	1.03	Q	V			
10+55	0.6740	1.03	Q	V			
11+ 0	0.6812	1.04	Q	V			
11+ 5	0.6884	1.05	Q	V			
11+10	0.6957	1.06	Q	V			
11+15	0.7031	1.07	Q	V			
11+20	0.7105	1.08	Q	V			
11+25	0.7180	1.09	Q	V			
11+30	0.7255	1.10	Q	V			
11+35	0.7332	1.11	Q	V			
11+40	0.7409	1.12	Q	V			
11+45	0.7486	1.13	Q	V			
11+50	0.7565	1.14	Q	V			
11+55	0.7644	1.15	Q	V			
12+ 0	0.7724	1.16	Q	V			
12+ 5	0.7805	1.17	Q	V			
12+10	0.7887	1.20	Q	V			
12+15	0.7971	1.22	Q	V			
12+20	0.8057	1.24	Q	V			
12+25	0.8143	1.25	Q	V			
12+30	0.8230	1.26	Q	V			
12+35	0.8318	1.28	Q	V			
12+40	0.8407	1.29	Q	V			
12+45	0.8497	1.31	Q	V			
12+50	0.8588	1.32	Q	V			
12+55	0.8680	1.34	Q	V			
13+ 0	0.8774	1.36	Q	V			
13+ 5	0.8868	1.37	Q	V			
13+10	0.8964	1.39	Q	V			
13+15	0.9062	1.41	Q	V			
13+20	0.9160	1.43	Q	V			
13+25	0.9260	1.45	Q	V			
13+30	0.9362	1.47	Q	V			
13+35	0.9465	1.50	Q	V			
13+40	0.9570	1.52	Q	V			
13+45	0.9676	1.55	Q	V			
13+50	0.9784	1.57	Q	V			
13+55	0.9895	1.60	Q	V			
14+ 0	1.0007	1.63	Q	V			
14+ 5	1.0121	1.66	Q	V			
14+10	1.0238	1.69	Q	V			
14+15	1.0357	1.73	Q	V			
14+20	1.0479	1.77	Q	V			
14+25	1.0603	1.81	Q	V			
14+30	1.0731	1.85	Q	V			
14+35	1.0861	1.90	Q	V			

14+40	1.0995	1.95	Q	V				
14+45	1.1133	2.00	Q	V				
14+50	1.1275	2.06	Q	V				
14+55	1.1421	2.12	Q	V				
15+ 0	1.1572	2.19	Q	V				
15+ 5	1.1728	2.27	Q	V				
15+10	1.1891	2.36	Q	V				
15+15	1.2060	2.46	Q	V				
15+20	1.2238	2.58	Q	V				
15+25	1.2421	2.65	Q	V				
15+30	1.2596	2.54	Q	V				
15+35	1.2767	2.49	Q	V				
15+40	1.2950	2.65	Q	V				
15+45	1.3152	2.93	Q	V				
15+50	1.3384	3.37	Q	V				
15+55	1.3662	4.03	Q	V				
16+ 0	1.4029	5.34	Q	V				
16+ 5	1.4631	8.74	Q	V				
16+10	1.5742	16.13	V	Q				
16+15	1.6697	13.87	Q					
16+20	1.7147	6.53	Q	V				
16+25	1.7399	3.65	Q	V				
16+30	1.7608	3.04	Q	V				
16+35	1.7794	2.71	Q	V				
16+40	1.7966	2.49	Q	V				
16+45	1.8124	2.30	Q	V				
16+50	1.8272	2.15	Q	V				
16+55	1.8412	2.02	Q	V				
17+ 0	1.8543	1.91	Q	V				
17+ 5	1.8669	1.82	Q	V				
17+10	1.8789	1.74	Q	V				
17+15	1.8904	1.67	Q	V				
17+20	1.9015	1.61	Q	V				
17+25	1.9122	1.55	Q	V				
17+30	1.9225	1.50	Q	V				
17+35	1.9326	1.46	Q	V				
17+40	1.9423	1.42	Q	V				
17+45	1.9518	1.38	Q	V				
17+50	1.9611	1.34	Q	V				
17+55	1.9702	1.31	Q	V				
18+ 0	1.9790	1.28	Q	V				
18+ 5	1.9876	1.25	Q	V				
18+10	1.9960	1.21	Q	V				
18+15	2.0041	1.18	Q	V				
18+20	2.0120	1.15	Q	V				
18+25	2.0198	1.13	Q	V				
18+30	2.0275	1.11	Q	V				
18+35	2.0350	1.09	Q	V				
18+40	2.0424	1.07	Q	V				
18+45	2.0496	1.05	Q	V				
18+50	2.0568	1.04	Q	V				
18+55	2.0638	1.02	Q	V				
19+ 0	2.0707	1.01	Q	V				
19+ 5	2.0776	0.99	Q	V				
19+10	2.0843	0.98	Q	V				
19+15	2.0909	0.96	Q	V				
19+20	2.0975	0.95	Q	V				
19+25	2.1039	0.94	Q	V				
19+30	2.1103	0.93	Q	V				

19+35	2.1166	0.92	Q	|	|	|	V |
19+40	2.1228	0.90	Q	|	|	|	V |
19+45	2.1290	0.89	Q	|	|	|	V |
19+50	2.1351	0.88	Q	|	|	|	V |
19+55	2.1411	0.87	Q	|	|	|	V |
20+ 0	2.1470	0.86	Q	|	|	|	V |
20+ 5	2.1529	0.85	Q	|	|	|	V |
20+10	2.1587	0.84	Q	|	|	|	V |
20+15	2.1645	0.84	Q	|	|	|	V |
20+20	2.1702	0.83	Q	|	|	|	V |
20+25	2.1758	0.82	Q	|	|	|	V |
20+30	2.1814	0.81	Q	|	|	|	V |
20+35	2.1870	0.80	Q	|	|	|	V |
20+40	2.1925	0.80	Q	|	|	|	V |
20+45	2.1979	0.79	Q	|	|	|	V |
20+50	2.2033	0.78	Q	|	|	|	V |
20+55	2.2086	0.77	Q	|	|	|	V |
21+ 0	2.2139	0.77	Q	|	|	|	V |
21+ 5	2.2191	0.76	Q	|	|	|	V |
21+10	2.2243	0.76	Q	|	|	|	V |
21+15	2.2295	0.75	Q	|	|	|	V |
21+20	2.2346	0.74	Q	|	|	|	V |
21+25	2.2397	0.74	Q	|	|	|	V |
21+30	2.2447	0.73	Q	|	|	|	V |
21+35	2.2497	0.73	Q	|	|	|	V |
21+40	2.2547	0.72	Q	|	|	|	V |
21+45	2.2596	0.71	Q	|	|	|	V |
21+50	2.2645	0.71	Q	|	|	|	V |
21+55	2.2693	0.70	Q	|	|	|	V |
22+ 0	2.2741	0.70	Q	|	|	|	V |
22+ 5	2.2789	0.69	Q	|	|	|	V |
22+10	2.2837	0.69	Q	|	|	|	V |
22+15	2.2884	0.68	Q	|	|	|	V |
22+20	2.2931	0.68	Q	|	|	|	V |
22+25	2.2977	0.67	Q	|	|	|	V |
22+30	2.3023	0.67	Q	|	|	|	V |
22+35	2.3069	0.67	Q	|	|	|	V |
22+40	2.3115	0.66	Q	|	|	|	V |
22+45	2.3160	0.66	Q	|	|	|	V |
22+50	2.3205	0.65	Q	|	|	|	V |
22+55	2.3250	0.65	Q	|	|	|	V |
23+ 0	2.3294	0.65	Q	|	|	|	V|
23+ 5	2.3338	0.64	Q	|	|	|	V|
23+10	2.3382	0.64	Q	|	|	|	V|
23+15	2.3426	0.63	Q	|	|	|	V|
23+20	2.3469	0.63	Q	|	|	|	V|
23+25	2.3512	0.63	Q	|	|	|	V|
23+30	2.3555	0.62	Q	|	|	|	V|
23+35	2.3598	0.62	Q	|	|	|	V|
23+40	2.3640	0.62	Q	|	|	|	V|
23+45	2.3682	0.61	Q	|	|	|	V|
23+50	2.3724	0.61	Q	|	|	|	V|
23+55	2.3766	0.61	Q	|	|	|	V|
24+ 0	2.3808	0.60	Q	|	|	|	V|
24+ 5	2.3846	0.55	Q|	|	|	|	V|
24+10	2.3866	0.30	Q	|	|	|	V|
24+15	2.3871	0.08	Q	|	|	|	V|
24+20	2.3873	0.02	Q	|	|	|	V|
24+25	2.3873	0.00	Q	|	|	|	V

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U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA B4
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
3.16	1	1.20
Rainfall data for year 100		
3.16	6	3.00
Rainfall data for year 100		
3.16	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	3.16	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.32	0.100	56.0	56.0	7.86	0.266
2.84	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.120 (hours)
++
Watershed area = 3.16(Ac.)
Catchment Lag time = 0.096 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 86.8056
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 3.16(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 38.22 (CFS))		
1	13.176	5.035
2	69.924	21.687
3	95.818	9.896
4	99.265	1.317
5	100.000	0.281

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7732	0.0840
5	0.8453	0.0722

6	0.9093	0.0640
7	0.9671	0.0578
8	1.0202	0.0531
9	1.0694	0.0492
10	1.1154	0.0460
11	1.1588	0.0433
12	1.1998	0.0410
13	1.2500	0.0501
14	1.2983	0.0483
15	1.3449	0.0466
16	1.3900	0.0451
17	1.4338	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5581	0.0403
21	1.5975	0.0394
22	1.6359	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227

65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160

124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131

183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114

242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094

8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114

67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156

126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0403	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430

185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0640	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0971
192	0.1419	0.0061	0.1358
193	0.4441	0.0061	0.4379
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128

244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 11.38(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m) Volume Ac.Ft Q(CFS) 0 5.0 10.0 15.0 20.0

0+ 5	0.0003	0.05	Q				
0+10	0.0020	0.25	Q				
0+15	0.0044	0.34	Q				
0+20	0.0068	0.35	Q				
0+25	0.0093	0.36	Q				
0+30	0.0117	0.36	Q				
0+35	0.0142	0.36	Q				
0+40	0.0167	0.36	Q				
0+45	0.0192	0.36	Q				
0+50	0.0217	0.36	Q				
0+55	0.0242	0.36	Q				
1+ 0	0.0267	0.36	Q				
1+ 5	0.0292	0.37	Q				
1+10	0.0317	0.37	Q				
1+15	0.0343	0.37	Q				
1+20	0.0368	0.37	QV				
1+25	0.0393	0.37	QV				
1+30	0.0419	0.37	QV				
1+35	0.0444	0.37	QV				
1+40	0.0470	0.37	QV				
1+45	0.0496	0.37	QV				
1+50	0.0522	0.37	QV				
1+55	0.0548	0.38	QV				
2+ 0	0.0574	0.38	QV				
2+ 5	0.0600	0.38	QV				
2+10	0.0626	0.38	QV				
2+15	0.0652	0.38	QV				
2+20	0.0678	0.38	QV				
2+25	0.0704	0.38	QV				
2+30	0.0731	0.38	Q V				
2+35	0.0757	0.38	Q V				
2+40	0.0784	0.39	Q V				
2+45	0.0811	0.39	Q V				
2+50	0.0837	0.39	Q V				
2+55	0.0864	0.39	Q V				
3+ 0	0.0891	0.39	Q V				
3+ 5	0.0918	0.39	Q V				
3+10	0.0945	0.39	Q V				
3+15	0.0972	0.39	Q V				
3+20	0.1000	0.40	Q V				
3+25	0.1027	0.40	Q V				
3+30	0.1054	0.40	Q V				
3+35	0.1082	0.40	Q V				
3+40	0.1110	0.40	Q V				
3+45	0.1137	0.40	Q V				
3+50	0.1165	0.40	Q V				
3+55	0.1193	0.41	Q V				
4+ 0	0.1221	0.41	Q V				
4+ 5	0.1249	0.41	Q V				
4+10	0.1277	0.41	Q V				
4+15	0.1306	0.41	Q V				
4+20	0.1334	0.41	Q V				
4+25	0.1363	0.41	Q V				
4+30	0.1391	0.42	Q V				
4+35	0.1420	0.42	Q V				
4+40	0.1449	0.42	Q V				
4+45	0.1478	0.42	Q V				
4+50	0.1507	0.42	Q V				

4+55	0.1536	0.42	Q	V	|	|	|	|
5+ 0	0.1565	0.42	Q	V	|	|	|	|
5+ 5	0.1594	0.43	Q	V	|	|	|	|
5+10	0.1624	0.43	Q	V	|	|	|	|
5+15	0.1653	0.43	Q	V	|	|	|	|
5+20	0.1683	0.43	Q	V	|	|	|	|
5+25	0.1713	0.43	Q	V	|	|	|	|
5+30	0.1743	0.43	Q	V	|	|	|	|
5+35	0.1773	0.44	Q	V	|	|	|	|
5+40	0.1803	0.44	Q	V	|	|	|	|
5+45	0.1833	0.44	Q	V	|	|	|	|
5+50	0.1864	0.44	Q	V	|	|	|	|
5+55	0.1894	0.44	Q	V	|	|	|	|
6+ 0	0.1925	0.44	Q	V	|	|	|	|
6+ 5	0.1955	0.45	Q	V	|	|	|	|
6+10	0.1986	0.45	Q	V	|	|	|	|
6+15	0.2017	0.45	Q	V	|	|	|	|
6+20	0.2049	0.45	Q	V	|	|	|	|
6+25	0.2080	0.45	Q	V	|	|	|	|
6+30	0.2111	0.46	Q	V	|	|	|	|
6+35	0.2143	0.46	Q	V	|	|	|	|
6+40	0.2174	0.46	Q	V	|	|	|	|
6+45	0.2206	0.46	Q	V	|	|	|	|
6+50	0.2238	0.46	Q	V	|	|	|	|
6+55	0.2270	0.47	Q	V	|	|	|	|
7+ 0	0.2303	0.47	Q	V	|	|	|	|
7+ 5	0.2335	0.47	Q	V	|	|	|	|
7+10	0.2368	0.47	Q	V	|	|	|	|
7+15	0.2400	0.47	Q	V	|	|	|	|
7+20	0.2433	0.48	Q	V	|	|	|	|
7+25	0.2466	0.48	Q	V	|	|	|	|
7+30	0.2499	0.48	Q	V	|	|	|	|
7+35	0.2533	0.48	Q	V	|	|	|	|
7+40	0.2566	0.49	Q	V	|	|	|	|
7+45	0.2600	0.49	Q	V	|	|	|	|
7+50	0.2634	0.49	Q	V	|	|	|	|
7+55	0.2668	0.49	Q	V	|	|	|	|
8+ 0	0.2702	0.50	Q	V	|	|	|	|
8+ 5	0.2736	0.50	Q	V	|	|	|	|
8+10	0.2771	0.50	Q	V	|	|	|	|
8+15	0.2806	0.50	Q	V	|	|	|	|
8+20	0.2840	0.51	Q	V	|	|	|	|
8+25	0.2875	0.51	Q	V	|	|	|	|
8+30	0.2911	0.51	Q	V	|	|	|	|
8+35	0.2946	0.51	Q	V	|	|	|	|
8+40	0.2982	0.52	Q	V	|	|	|	|
8+45	0.3018	0.52	Q	V	|	|	|	|
8+50	0.3054	0.52	Q	V	|	|	|	|
8+55	0.3090	0.53	Q	V	|	|	|	|
9+ 0	0.3127	0.53	Q	V	|	|	|	|
9+ 5	0.3163	0.53	Q	V	|	|	|	|
9+10	0.3200	0.54	Q	V	|	|	|	|
9+15	0.3237	0.54	Q	V	|	|	|	|
9+20	0.3275	0.54	Q	V	|	|	|	|
9+25	0.3312	0.55	Q	V	|	|	|	|
9+30	0.3350	0.55	Q	V	|	|	|	|
9+35	0.3388	0.55	Q	V	|	|	|	|
9+40	0.3427	0.56	Q	V	|	|	|	|
9+45	0.3465	0.56	Q	V	|	|	|	|

9+50	0.3504	0.56	Q V				
9+55	0.3543	0.57	Q V				
10+ 0	0.3582	0.57	Q V				
10+ 5	0.3622	0.57	Q V				
10+10	0.3662	0.58	Q V				
10+15	0.3702	0.58	Q V				
10+20	0.3742	0.59	Q V				
10+25	0.3783	0.59	Q V				
10+30	0.3824	0.60	Q V				
10+35	0.3865	0.60	Q V				
10+40	0.3907	0.60	Q V				
10+45	0.3949	0.61	Q V				
10+50	0.3991	0.61	Q V				
10+55	0.4034	0.62	Q V				
11+ 0	0.4077	0.62	Q V				
11+ 5	0.4120	0.63	Q V				
11+10	0.4164	0.63	Q V				
11+15	0.4208	0.64	Q V				
11+20	0.4252	0.65	Q V				
11+25	0.4297	0.65	Q V				
11+30	0.4342	0.66	Q V				
11+35	0.4388	0.66	Q V				
11+40	0.4434	0.67	Q V				
11+45	0.4481	0.67	Q V				
11+50	0.4527	0.68	Q V				
11+55	0.4575	0.69	Q V				
12+ 0	0.4623	0.69	Q V				
12+ 5	0.4671	0.70	Q V				
12+10	0.4721	0.72	Q V				
12+15	0.4771	0.73	Q V				
12+20	0.4822	0.74	Q V				
12+25	0.4874	0.75	Q V				
12+30	0.4926	0.76	Q V				
12+35	0.4978	0.76	Q V				
12+40	0.5032	0.77	Q V				
12+45	0.5086	0.78	Q V				
12+50	0.5140	0.79	Q V				
12+55	0.5196	0.80	Q V				
13+ 0	0.5252	0.81	Q V				
13+ 5	0.5308	0.82	Q V				
13+10	0.5366	0.83	Q V				
13+15	0.5424	0.85	Q V				
13+20	0.5483	0.86	Q V				
13+25	0.5543	0.87	Q V				
13+30	0.5604	0.88	Q V				
13+35	0.5666	0.90	Q V				
13+40	0.5729	0.91	Q V				
13+45	0.5792	0.93	Q V				
13+50	0.5857	0.94	Q V				
13+55	0.5924	0.96	Q V				
14+ 0	0.5991	0.98	Q V				
14+ 5	0.6060	1.00	Q V				
14+10	0.6130	1.02	Q V				
14+15	0.6201	1.04	Q V				
14+20	0.6274	1.06	Q V				
14+25	0.6349	1.09	Q V				
14+30	0.6426	1.11	Q V				
14+35	0.6504	1.14	Q V				
14+40	0.6585	1.17	Q V				

14+45	0.6668	1.20	Q	V			
14+50	0.6753	1.24	Q	V			
14+55	0.6841	1.28	Q	V			
15+ 0	0.6933	1.33	Q	V			
15+ 5	0.7027	1.37	Q	V			
15+10	0.7126	1.43	Q	V			
15+15	0.7228	1.49	Q	V			
15+20	0.7336	1.56	Q	V			
15+25	0.7445	1.59	Q	V			
15+30	0.7547	1.48	Q	V			
15+35	0.7650	1.49	Q	V			
15+40	0.7762	1.63	Q	V			
15+45	0.7887	1.81	Q	V			
15+50	0.8033	2.12	Q	V			
15+55	0.8210	2.57	Q	V			
16+ 0	0.8453	3.53	Q	V			
16+ 5	0.8881	6.21	Q	V			
16+10	0.9665	11.38	Q	Q V			
16+15	1.0112	6.49	Q	V			
16+20	1.0299	2.71	Q	V			
16+25	1.0426	1.85	Q	V			
16+30	1.0541	1.67	Q	V			
16+35	1.0649	1.57	Q	V			
16+40	1.0748	1.44	Q	V			
16+45	1.0840	1.34	Q	V			
16+50	1.0926	1.25	Q	V			
16+55	1.1007	1.18	Q	V			
17+ 0	1.1084	1.12	Q	V			
17+ 5	1.1158	1.07	Q	V			
17+10	1.1228	1.02	Q	V			
17+15	1.1296	0.98	Q	V			
17+20	1.1361	0.95	Q	V			
17+25	1.1424	0.92	Q	V			
17+30	1.1485	0.89	Q	V			
17+35	1.1544	0.86	Q	V			
17+40	1.1602	0.84	Q	V			
17+45	1.1658	0.81	Q	V			
17+50	1.1713	0.79	Q	V			
17+55	1.1766	0.78	Q	V			
18+ 0	1.1818	0.76	Q	V			
18+ 5	1.1869	0.74	Q	V			
18+10	1.1919	0.72	Q	V			
18+15	1.1967	0.70	Q	V			
18+20	1.2014	0.68	Q	V			
18+25	1.2060	0.67	Q	V			
18+30	1.2105	0.66	Q	V			
18+35	1.2149	0.65	Q	V			
18+40	1.2193	0.64	Q	V			
18+45	1.2236	0.62	Q	V			
18+50	1.2279	0.61	Q	V			
18+55	1.2320	0.61	Q	V			
19+ 0	1.2361	0.60	Q	V			
19+ 5	1.2402	0.59	Q	V			
19+10	1.2442	0.58	Q	V			
19+15	1.2481	0.57	Q	V			
19+20	1.2520	0.56	Q	V			
19+25	1.2558	0.56	Q	V			
19+30	1.2596	0.55	Q	V			
19+35	1.2634	0.54	Q	V			

19+40	1.2671	0.54	Q			V	
19+45	1.2707	0.53	Q			V	
19+50	1.2743	0.52	Q			V	
19+55	1.2779	0.52	Q			V	
20+ 0	1.2814	0.51	Q			V	
20+ 5	1.2849	0.51	Q			V	
20+10	1.2884	0.50	Q			V	
20+15	1.2918	0.50	Q			V	
20+20	1.2952	0.49	Q			V	
20+25	1.2985	0.49	Q			V	
20+30	1.3018	0.48	Q			V	
20+35	1.3051	0.48	Q			V	
20+40	1.3084	0.47	Q			V	
20+45	1.3116	0.47	Q			V	
20+50	1.3148	0.46	Q			V	
20+55	1.3180	0.46	Q			V	
21+ 0	1.3211	0.46	Q			V	
21+ 5	1.3243	0.45	Q			V	
21+10	1.3273	0.45	Q			V	
21+15	1.3304	0.45	Q			V	
21+20	1.3335	0.44	Q			V	
21+25	1.3365	0.44	Q			V	
21+30	1.3395	0.43	Q			V	
21+35	1.3424	0.43	Q			V	
21+40	1.3454	0.43	Q			V	
21+45	1.3483	0.42	Q			V	
21+50	1.3512	0.42	Q			V	
21+55	1.3541	0.42	Q			V	
22+ 0	1.3570	0.42	Q			V	
22+ 5	1.3598	0.41	Q			V	
22+10	1.3626	0.41	Q			V	
22+15	1.3654	0.41	Q			V	
22+20	1.3682	0.40	Q			V	
22+25	1.3710	0.40	Q			V	
22+30	1.3737	0.40	Q			V	
22+35	1.3764	0.40	Q			V	
22+40	1.3792	0.39	Q			V	
22+45	1.3818	0.39	Q			V	
22+50	1.3845	0.39	Q			V	
22+55	1.3872	0.39	Q			V	
23+ 0	1.3898	0.38	Q			V	
23+ 5	1.3925	0.38	Q			V	
23+10	1.3951	0.38	Q			V	
23+15	1.3977	0.38	Q			V	
23+20	1.4002	0.37	Q			V	
23+25	1.4028	0.37	Q			V	
23+30	1.4054	0.37	Q			V	
23+35	1.4079	0.37	Q			V	
23+40	1.4104	0.37	Q			V	
23+45	1.4129	0.36	Q			V	
23+50	1.4154	0.36	Q			V	
23+55	1.4179	0.36	Q			V	
24+ 0	1.4204	0.36	Q			V	
24+ 5	1.4225	0.31	Q			V	
24+10	1.4233	0.11	Q			V	
24+15	1.4234	0.01	Q			V	
24+20	1.4234	0.00	Q			V	

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA B5
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
1.86	1	1.20
Rainfall data for year 100		
1.86	6	3.00
Rainfall data for year 100		
1.86	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	1.86	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.19	0.100	56.0	56.0	7.86	0.266
1.67	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.093 (hours)
++
Watershed area = 1.86(Ac.)
Catchment Lag time = 0.074 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 112.0072
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 1.86(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
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Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 22.49 (CFS))		
1	21.220	4.773
2	85.584	14.478
3	98.795	2.972
4	100.000	0.271

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5860	0.1419
3	0.6892	0.1032
4	0.7732	0.0840
5	0.8454	0.0722
6	0.9094	0.0640

7	0.9672	0.0578
8	1.0203	0.0531
9	1.0695	0.0492
10	1.1155	0.0460
11	1.1589	0.0433
12	1.1999	0.0410
13	1.2500	0.0501
14	1.2983	0.0483
15	1.3450	0.0466
16	1.3901	0.0451
17	1.4339	0.0438
18	1.4764	0.0425
19	1.5178	0.0414
20	1.5582	0.0403
21	1.5975	0.0394
22	1.6360	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8508	0.0341
29	1.8843	0.0335
30	1.9172	0.0330
31	1.9497	0.0324
32	1.9816	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1926	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3321	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5150	0.0253
52	2.5401	0.0251
53	2.5649	0.0249
54	2.5896	0.0246
55	2.6140	0.0244
56	2.6382	0.0242
57	2.6622	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8020	0.0228
64	2.8246	0.0227
65	2.8471	0.0225

66	2.8694	0.0223
67	2.8916	0.0222
68	2.9136	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0414	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1623	0.0198
81	3.1820	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2404	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5882	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8406	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161
122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159

125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0774	0.0154
134	4.0927	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2131	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3157	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4159	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5139	0.0139
164	4.5277	0.0138
165	4.5415	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5826	0.0137
169	4.5962	0.0136
170	4.6098	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6503	0.0135
174	4.6637	0.0134
175	4.6771	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7566	0.0132
182	4.7697	0.0131
183	4.7828	0.0131

184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8348	0.0129
188	4.8477	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8990	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1235	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2082	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2797	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3151	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4199	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114

243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5453	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5902	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7009	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7337	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8095	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8737	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9372	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9687	0.0105
286	5.9791	0.0105
287	5.9896	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094
8	0.0106	0.0012	0.0095

9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114
67	0.0129	0.0014	0.0115

68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156
126	0.0176	0.0019	0.0157

127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0403	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430
185	0.0410	0.0045	0.0366

186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0640	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0971
192	0.1419	0.0061	0.1358
193	0.4441	0.0061	0.4380
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0321
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128
244	0.0143	0.0016	0.0127

245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 7.14(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0

0+ 5	0.0003	0.04	Q	|	|	|	|
0+10	0.0015	0.18	Q	|	|	|	|
0+15	0.0030	0.21	Q	|	|	|	|
0+20	0.0044	0.21	Q	|	|	|	|
0+25	0.0059	0.21	Q	|	|	|	|
0+30	0.0073	0.21	Q	|	|	|	|
0+35	0.0088	0.21	Q	|	|	|	|
0+40	0.0102	0.21	Q	|	|	|	|
0+45	0.0117	0.21	Q	|	|	|	|
0+50	0.0132	0.21	Q	|	|	|	|
0+55	0.0146	0.21	Q	|	|	|	|
1+ 0	0.0161	0.21	Q	|	|	|	|
1+ 5	0.0176	0.22	Q	|	|	|	|
1+10	0.0191	0.22	Q	|	|	|	|
1+15	0.0206	0.22	Q	|	|	|	|
1+20	0.0221	0.22	QV	|	|	|	|
1+25	0.0236	0.22	QV	|	|	|	|
1+30	0.0251	0.22	QV	|	|	|	|
1+35	0.0266	0.22	QV	|	|	|	|
1+40	0.0281	0.22	QV	|	|	|	|
1+45	0.0296	0.22	QV	|	|	|	|
1+50	0.0311	0.22	QV	|	|	|	|
1+55	0.0326	0.22	QV	|	|	|	|
2+ 0	0.0342	0.22	QV	|	|	|	|
2+ 5	0.0357	0.22	QV	|	|	|	|
2+10	0.0372	0.22	QV	|	|	|	|
2+15	0.0388	0.22	QV	|	|	|	|
2+20	0.0403	0.22	QV	|	|	|	|
2+25	0.0419	0.23	QV	|	|	|	|
2+30	0.0434	0.23	Q V	|	|	|	|
2+35	0.0450	0.23	Q V	|	|	|	|
2+40	0.0466	0.23	Q V	|	|	|	|
2+45	0.0481	0.23	Q V	|	|	|	|
2+50	0.0497	0.23	Q V	|	|	|	|
2+55	0.0513	0.23	Q V	|	|	|	|
3+ 0	0.0529	0.23	Q V	|	|	|	|
3+ 5	0.0545	0.23	Q V	|	|	|	|
3+10	0.0561	0.23	Q V	|	|	|	|
3+15	0.0577	0.23	Q V	|	|	|	|
3+20	0.0593	0.23	Q V	|	|	|	|
3+25	0.0609	0.23	Q V	|	|	|	|
3+30	0.0625	0.23	Q V	|	|	|	|
3+35	0.0641	0.24	Q V	|	|	|	|
3+40	0.0658	0.24	Q V	|	|	|	|
3+45	0.0674	0.24	Q V	|	|	|	|
3+50	0.0690	0.24	Q V	|	|	|	|
3+55	0.0707	0.24	Q V	|	|	|	|
4+ 0	0.0723	0.24	Q V	|	|	|	|
4+ 5	0.0740	0.24	Q V	|	|	|	|
4+10	0.0756	0.24	Q V	|	|	|	|
4+15	0.0773	0.24	Q V	|	|	|	|
4+20	0.0790	0.24	Q V	|	|	|	|
4+25	0.0807	0.24	Q V	|	|	|	|
4+30	0.0823	0.24	Q V	|	|	|	|
4+35	0.0840	0.25	Q V	|	|	|	|
4+40	0.0857	0.25	Q V	|	|	|	|
4+45	0.0874	0.25	Q V	|	|	|	|
4+50	0.0891	0.25	Q V	|	|	|	|
4+55	0.0909	0.25	Q V	|	|	|	|

5+ 0	0.0926	0.25	Q V				
5+ 5	0.0943	0.25	Q V				
5+10	0.0961	0.25	Q V				
5+15	0.0978	0.25	Q V				
5+20	0.0995	0.25	Q V				
5+25	0.1013	0.25	Q V				
5+30	0.1031	0.26	Q V				
5+35	0.1048	0.26	Q V				
5+40	0.1066	0.26	Q V				
5+45	0.1084	0.26	Q V				
5+50	0.1102	0.26	Q V				
5+55	0.1120	0.26	Q V				
6+ 0	0.1138	0.26	Q V				
6+ 5	0.1156	0.26	Q V				
6+10	0.1174	0.26	Q V				
6+15	0.1192	0.27	Q V				
6+20	0.1211	0.27	Q V				
6+25	0.1229	0.27	Q V				
6+30	0.1248	0.27	Q V				
6+35	0.1266	0.27	Q V				
6+40	0.1285	0.27	Q V				
6+45	0.1304	0.27	Q V				
6+50	0.1323	0.27	Q V				
6+55	0.1342	0.27	Q V				
7+ 0	0.1361	0.28	Q V				
7+ 5	0.1380	0.28	Q V				
7+10	0.1399	0.28	Q V				
7+15	0.1418	0.28	Q V				
7+20	0.1437	0.28	Q V				
7+25	0.1457	0.28	Q V				
7+30	0.1477	0.28	Q V				
7+35	0.1496	0.29	Q V				
7+40	0.1516	0.29	Q V				
7+45	0.1536	0.29	Q V				
7+50	0.1556	0.29	Q V				
7+55	0.1576	0.29	Q V				
8+ 0	0.1596	0.29	Q V				
8+ 5	0.1616	0.29	Q V				
8+10	0.1636	0.30	Q V				
8+15	0.1657	0.30	Q V				
8+20	0.1678	0.30	Q V				
8+25	0.1698	0.30	Q V				
8+30	0.1719	0.30	Q V				
8+35	0.1740	0.30	Q V				
8+40	0.1761	0.31	Q V				
8+45	0.1782	0.31	Q V				
8+50	0.1803	0.31	Q V				
8+55	0.1825	0.31	Q V				
9+ 0	0.1846	0.31	Q V				
9+ 5	0.1868	0.31	Q V				
9+10	0.1890	0.32	Q V				
9+15	0.1912	0.32	Q V				
9+20	0.1934	0.32	Q V				
9+25	0.1956	0.32	Q V				
9+30	0.1978	0.32	Q V				
9+35	0.2000	0.33	Q V				
9+40	0.2023	0.33	Q V				
9+45	0.2046	0.33	Q V				
9+50	0.2069	0.33	Q V				

9+55	0.2092	0.33	Q	V			
10+ 0	0.2115	0.34	Q	V			
10+ 5	0.2138	0.34	Q	V			
10+10	0.2162	0.34	Q	V			
10+15	0.2185	0.34	Q	V			
10+20	0.2209	0.35	Q	V			
10+25	0.2233	0.35	Q	V			
10+30	0.2258	0.35	Q	V			
10+35	0.2282	0.35	Q	V			
10+40	0.2306	0.36	Q	V			
10+45	0.2331	0.36	Q	V			
10+50	0.2356	0.36	Q	V			
10+55	0.2381	0.36	Q	V			
11+ 0	0.2407	0.37	Q	V			
11+ 5	0.2432	0.37	Q	V			
11+10	0.2458	0.37	Q	V			
11+15	0.2484	0.38	Q	V			
11+20	0.2510	0.38	Q	V			
11+25	0.2537	0.38	Q	V			
11+30	0.2563	0.39	Q	V			
11+35	0.2590	0.39	Q	V			
11+40	0.2617	0.39	Q	V			
11+45	0.2645	0.40	Q	V			
11+50	0.2672	0.40	Q	V			
11+55	0.2700	0.41	Q	V			
12+ 0	0.2729	0.41	Q	V			
12+ 5	0.2757	0.42	Q	V			
12+10	0.2787	0.43	Q	V			
12+15	0.2816	0.43	Q	V			
12+20	0.2847	0.44	Q	V			
12+25	0.2877	0.44	Q	V			
12+30	0.2908	0.45	Q	V			
12+35	0.2939	0.45	Q	V			
12+40	0.2970	0.46	Q	V			
12+45	0.3002	0.46	Q	V			
12+50	0.3034	0.47	Q	V			
12+55	0.3067	0.47	Q	V			
13+ 0	0.3100	0.48	Q	V			
13+ 5	0.3134	0.49	Q	V			
13+10	0.3168	0.49	Q	V			
13+15	0.3202	0.50	Q	V			
13+20	0.3237	0.51	Q	V			
13+25	0.3272	0.51	Q	V			
13+30	0.3308	0.52	Q	V			
13+35	0.3345	0.53	Q	V			
13+40	0.3382	0.54	Q	V			
13+45	0.3420	0.55	Q	V			
13+50	0.3458	0.56	Q	V			
13+55	0.3497	0.57	Q	V			
14+ 0	0.3537	0.58	Q	V			
14+ 5	0.3578	0.59	Q	V			
14+10	0.3619	0.60	Q	V			
14+15	0.3662	0.61	Q	V			
14+20	0.3705	0.63	Q	V			
14+25	0.3749	0.64	Q	V			
14+30	0.3795	0.66	Q	V			
14+35	0.3841	0.67	Q	V			
14+40	0.3889	0.70	Q	V			
14+45	0.3938	0.71	Q	V			

14+50	0.3989	0.74	Q		V			
14+55	0.4041	0.76	Q		V			
15+ 0	0.4095	0.79	Q		V			
15+ 5	0.4152	0.81	Q		V			
15+10	0.4210	0.85	Q		V			
15+15	0.4271	0.89	Q		V			
15+20	0.4335	0.93	Q		V			
15+25	0.4400	0.93	Q		V			
15+30	0.4458	0.85	Q		V			
15+35	0.4520	0.89	Q		V			
15+40	0.4587	0.99	Q		V			
15+45	0.4663	1.10	Q		V			
15+50	0.4753	1.31	Q		V			
15+55	0.4864	1.60	Q		V			
16+ 0	0.5020	2.27	Q		V			
16+ 5	0.5320	4.36		Q	V			
16+10	0.5812	7.14			VQ			
16+15	0.5999	2.71	Q		V			
16+20	0.6088	1.29	Q		V			
16+25	0.6156	0.98	Q		V			
16+30	0.6223	0.97	Q		V			
16+35	0.6285	0.90	Q		V			
16+40	0.6342	0.83	Q		V			
16+45	0.6395	0.77	Q		V			
16+50	0.6445	0.72	Q		V			
16+55	0.6492	0.68	Q		V			
17+ 0	0.6537	0.65	Q		V			
17+ 5	0.6579	0.62	Q		V			
17+10	0.6620	0.59	Q		V			
17+15	0.6660	0.57	Q		V			
17+20	0.6698	0.55	Q		V			
17+25	0.6734	0.53	Q		V			
17+30	0.6770	0.52	Q		V			
17+35	0.6805	0.50	Q		V			
17+40	0.6838	0.49	Q		V			
17+45	0.6871	0.48	Q		V			
17+50	0.6903	0.46	Q		V			
17+55	0.6934	0.45	Q		V			
18+ 0	0.6965	0.44	Q		V			
18+ 5	0.6995	0.43	Q		V			
18+10	0.7023	0.42	Q		V			
18+15	0.7051	0.41	Q		V			
18+20	0.7079	0.40	Q		V			
18+25	0.7106	0.39	Q		V			
18+30	0.7132	0.39	Q		V			
18+35	0.7158	0.38	Q		V			
18+40	0.7184	0.37	Q		V			
18+45	0.7209	0.37	Q		V			
18+50	0.7234	0.36	Q		V			
18+55	0.7259	0.35	Q		V			
19+ 0	0.7283	0.35	Q		V			
19+ 5	0.7306	0.34	Q		V			
19+10	0.7330	0.34	Q		V			
19+15	0.7353	0.34	Q		V			
19+20	0.7376	0.33	Q		V			
19+25	0.7398	0.33	Q		V			
19+30	0.7420	0.32	Q		V			
19+35	0.7442	0.32	Q		V			
19+40	0.7464	0.31	Q		V			

19+45	0.7485	0.31	Q				V
19+50	0.7507	0.31	Q				V
19+55	0.7528	0.30	Q				V
20+ 0	0.7548	0.30	Q				V
20+ 5	0.7569	0.30	Q				V
20+10	0.7589	0.29	Q				V
20+15	0.7609	0.29	Q				V
20+20	0.7629	0.29	Q				V
20+25	0.7649	0.29	Q				V
20+30	0.7668	0.28	Q				V
20+35	0.7687	0.28	Q				V
20+40	0.7707	0.28	Q				V
20+45	0.7726	0.28	Q				V
20+50	0.7744	0.27	Q				V
20+55	0.7763	0.27	Q				V
21+ 0	0.7781	0.27	Q				V
21+ 5	0.7800	0.27	Q				V
21+10	0.7818	0.26	Q				V
21+15	0.7836	0.26	Q				V
21+20	0.7854	0.26	Q				V
21+25	0.7871	0.26	Q				V
21+30	0.7889	0.26	Q				V
21+35	0.7906	0.25	Q				V
21+40	0.7924	0.25	Q				V
21+45	0.7941	0.25	Q				V
21+50	0.7958	0.25	Q				V
21+55	0.7975	0.25	Q				V
22+ 0	0.7992	0.24	Q				V
22+ 5	0.8008	0.24	Q				V
22+10	0.8025	0.24	Q				V
22+15	0.8041	0.24	Q				V
22+20	0.8058	0.24	Q				V
22+25	0.8074	0.24	Q				V
22+30	0.8090	0.23	Q				V
22+35	0.8106	0.23	Q				V
22+40	0.8122	0.23	Q				V
22+45	0.8138	0.23	Q				V
22+50	0.8154	0.23	Q				V
22+55	0.8169	0.23	Q				V
23+ 0	0.8185	0.23	Q				V
23+ 5	0.8200	0.22	Q				V
23+10	0.8216	0.22	Q				V
23+15	0.8231	0.22	Q				V
23+20	0.8246	0.22	Q				V
23+25	0.8261	0.22	Q				V
23+30	0.8276	0.22	Q				V
23+35	0.8291	0.22	Q				V
23+40	0.8306	0.22	Q				V
23+45	0.8321	0.21	Q				V
23+50	0.8335	0.21	Q				V
23+55	0.8350	0.21	Q				V
24+ 0	0.8364	0.21	Q				V
24+ 5	0.8376	0.17	Q				V
24+10	0.8378	0.03	Q				V
24+15	0.8378	0.00	Q				V

APPENDIX C.4: UNIT HYDROGRAPH ANALYSIS, AREAS "C"

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA C1
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
4.98	1	1.20
Rainfall data for year 100		
4.98	6	3.00
Rainfall data for year 100		
4.98	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	4.98	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.50	0.100	56.0	56.0	7.86	0.266
4.48	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.140 (hours)
++
Watershed area = 4.98(Ac.)
Catchment Lag time = 0.112 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 74.4048
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 4.98(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
(K = 60.23 (CFS))		
1	9.857	5.937
2	58.164	29.094
3	91.715	20.207
4	98.412	4.033
5	100.000	0.956

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4440	0.4440
2	0.5859	0.1419
3	0.6891	0.1032
4	0.7731	0.0840
5	0.8453	0.0722

6	0.9092	0.0639
7	0.9670	0.0578
8	1.0201	0.0531
9	1.0693	0.0492
10	1.1153	0.0460
11	1.1587	0.0433
12	1.1997	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3448	0.0466
16	1.3899	0.0451
17	1.4337	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5580	0.0404
21	1.5974	0.0394
22	1.6359	0.0385
23	1.6735	0.0376
24	1.7103	0.0368
25	1.7464	0.0361
26	1.7818	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0129	0.0314
34	2.0439	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3856	0.0267
47	2.4120	0.0264
48	2.4381	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6139	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230
63	2.8019	0.0228
64	2.8246	0.0227

65	2.8471	0.0225
66	2.8694	0.0223
67	2.8915	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9570	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3726	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4820	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6571	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8078	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8729	0.0162
121	3.8890	0.0161
122	3.9051	0.0160
123	3.9210	0.0160

124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0155	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2278	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3874	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4860	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5276	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5961	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6636	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7169	0.0133
179	4.7302	0.0132
180	4.7434	0.0132
181	4.7565	0.0132
182	4.7697	0.0131

183	4.7827	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9874	0.0125
200	5.0000	0.0125
201	5.0124	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4313	0.0115
237	5.4428	0.0115
238	5.4543	0.0115
239	5.4658	0.0114
240	5.4772	0.0114
241	5.4886	0.0114

242	5.5000	0.0114
243	5.5113	0.0114
244	5.5226	0.0113
245	5.5339	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5789	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6124	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7662	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9160	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9581	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094
6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094

8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113
65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114

67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154
124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156

126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0404	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390
183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430

185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0639	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0970
192	0.1419	0.0061	0.1358
193	0.4440	0.0061	0.4379
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131
242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128

244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 16.40(CFS)

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24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m) Volume Ac.Ft Q(CFS) 0 5.0 10.0 15.0 20.0

0+ 5	0.0004	0.06	Q				
0+10	0.0026	0.33	Q				
0+15	0.0062	0.51	VQ				
0+20	0.0100	0.55	VQ				
0+25	0.0138	0.56	VQ				
0+30	0.0177	0.56	VQ				
0+35	0.0216	0.57	VQ				
0+40	0.0255	0.57	VQ				
0+45	0.0295	0.57	VQ				
0+50	0.0334	0.57	VQ				
0+55	0.0373	0.57	VQ				
1+ 0	0.0413	0.57	VQ				
1+ 5	0.0452	0.58	VQ				
1+10	0.0492	0.58	VQ				
1+15	0.0532	0.58	VQ				
1+20	0.0572	0.58	|Q				
1+25	0.0612	0.58	|Q				
1+30	0.0652	0.58	|Q				
1+35	0.0692	0.58	|Q				
1+40	0.0733	0.59	|Q				
1+45	0.0773	0.59	|Q				
1+50	0.0814	0.59	|Q				
1+55	0.0855	0.59	|Q				
2+ 0	0.0896	0.59	|Q				
2+ 5	0.0937	0.60	|Q				
2+10	0.0978	0.60	|Q				
2+15	0.1019	0.60	|Q				
2+20	0.1060	0.60	|Q				
2+25	0.1102	0.60	|Q				
2+30	0.1143	0.60	|QV				
2+35	0.1185	0.61	|QV				
2+40	0.1227	0.61	|QV				
2+45	0.1269	0.61	|QV				
2+50	0.1311	0.61	|QV				
2+55	0.1353	0.61	|QV				
3+ 0	0.1396	0.62	|QV				
3+ 5	0.1438	0.62	|QV				
3+10	0.1481	0.62	|QV				
3+15	0.1524	0.62	|QV				
3+20	0.1567	0.62	|QV				
3+25	0.1610	0.63	|QV				
3+30	0.1653	0.63	|QV				
3+35	0.1697	0.63	|Q V				
3+40	0.1740	0.63	|Q V				
3+45	0.1784	0.63	|Q V				
3+50	0.1827	0.64	|Q V				
3+55	0.1871	0.64	|Q V				
4+ 0	0.1916	0.64	|Q V				
4+ 5	0.1960	0.64	|Q V				
4+10	0.2004	0.64	|Q V				
4+15	0.2049	0.65	|Q V				
4+20	0.2094	0.65	|Q V				
4+25	0.2138	0.65	|Q V				
4+30	0.2183	0.65	|Q V				
4+35	0.2229	0.66	|Q V				
4+40	0.2274	0.66	|Q V				
4+45	0.2320	0.66	|Q V				
4+50	0.2365	0.66	|Q V				

4+55	0.2411	0.67	Q V				
5+ 0	0.2457	0.67	Q V				
5+ 5	0.2503	0.67	Q V				
5+10	0.2550	0.67	Q V				
5+15	0.2596	0.68	Q V				
5+20	0.2643	0.68	Q V				
5+25	0.2690	0.68	Q V				
5+30	0.2737	0.68	Q V				
5+35	0.2784	0.69	Q V				
5+40	0.2832	0.69	Q V				
5+45	0.2879	0.69	Q V				
5+50	0.2927	0.69	Q V				
5+55	0.2975	0.70	Q V				
6+ 0	0.3024	0.70	Q V				
6+ 5	0.3072	0.70	Q V				
6+10	0.3121	0.71	Q V				
6+15	0.3169	0.71	Q V				
6+20	0.3219	0.71	Q V				
6+25	0.3268	0.72	Q V				
6+30	0.3317	0.72	Q V				
6+35	0.3367	0.72	Q V				
6+40	0.3417	0.72	Q V				
6+45	0.3467	0.73	Q V				
6+50	0.3517	0.73	Q V				
6+55	0.3568	0.73	Q V				
7+ 0	0.3619	0.74	Q V				
7+ 5	0.3670	0.74	Q V				
7+10	0.3721	0.74	Q V				
7+15	0.3772	0.75	Q V				
7+20	0.3824	0.75	Q V				
7+25	0.3876	0.75	Q V				
7+30	0.3928	0.76	Q V				
7+35	0.3981	0.76	Q V				
7+40	0.4034	0.77	Q V				
7+45	0.4087	0.77	Q V				
7+50	0.4140	0.77	Q V				
7+55	0.4193	0.78	Q V				
8+ 0	0.4247	0.78	Q V				
8+ 5	0.4301	0.79	Q V				
8+10	0.4356	0.79	Q V				
8+15	0.4410	0.79	Q V				
8+20	0.4465	0.80	Q V				
8+25	0.4521	0.80	Q V				
8+30	0.4576	0.81	Q V				
8+35	0.4632	0.81	Q V				
8+40	0.4688	0.82	Q V				
8+45	0.4745	0.82	Q V				
8+50	0.4801	0.82	Q V				
8+55	0.4858	0.83	Q V				
9+ 0	0.4916	0.83	Q V				
9+ 5	0.4974	0.84	Q V				
9+10	0.5032	0.84	Q V				
9+15	0.5090	0.85	Q V				
9+20	0.5149	0.85	Q V				
9+25	0.5208	0.86	Q V				
9+30	0.5268	0.86	Q V				
9+35	0.5328	0.87	Q V				
9+40	0.5388	0.88	Q V				
9+45	0.5449	0.88	Q V				

9+50	0.5510	0.89	Q V				
9+55	0.5571	0.89	Q V				
10+ 0	0.5633	0.90	Q V				
10+ 5	0.5695	0.90	Q V				
10+10	0.5758	0.91	Q V				
10+15	0.5821	0.92	Q V				
10+20	0.5885	0.92	Q V				
10+25	0.5949	0.93	Q V				
10+30	0.6014	0.94	Q V				
10+35	0.6079	0.94	Q V				
10+40	0.6144	0.95	Q V				
10+45	0.6210	0.96	Q V				
10+50	0.6277	0.97	Q V				
10+55	0.6344	0.97	Q V				
11+ 0	0.6411	0.98	Q V				
11+ 5	0.6480	0.99	Q V				
11+10	0.6548	1.00	Q V				
11+15	0.6618	1.01	Q V				
11+20	0.6688	1.01	Q V				
11+25	0.6758	1.02	Q V				
11+30	0.6829	1.03	Q V				
11+35	0.6901	1.04	Q V				
11+40	0.6973	1.05	Q V				
11+45	0.7046	1.06	Q V				
11+50	0.7120	1.07	Q V				
11+55	0.7195	1.08	Q V				
12+ 0	0.7270	1.09	Q V				
12+ 5	0.7346	1.11	Q V				
12+10	0.7424	1.13	Q V				
12+15	0.7503	1.15	Q V				
12+20	0.7583	1.16	Q V				
12+25	0.7664	1.18	Q V				
12+30	0.7746	1.19	Q V				
12+35	0.7829	1.20	Q V				
12+40	0.7913	1.22	Q V				
12+45	0.7998	1.23	Q V				
12+50	0.8084	1.25	Q V				
12+55	0.8171	1.26	Q V				
13+ 0	0.8259	1.28	Q V				
13+ 5	0.8348	1.29	Q V				
13+10	0.8438	1.31	Q V				
13+15	0.8530	1.33	Q V				
13+20	0.8622	1.35	Q V				
13+25	0.8717	1.37	Q V				
13+30	0.8812	1.39	Q V				
13+35	0.8909	1.41	Q V				
13+40	0.9008	1.43	Q V				
13+45	0.9108	1.46	Q V				
13+50	0.9211	1.48	Q V				
13+55	0.9314	1.51	Q V				
14+ 0	0.9420	1.54	Q V				
14+ 5	0.9528	1.56	Q V				
14+10	0.9638	1.60	Q V				
14+15	0.9750	1.63	Q V				
14+20	0.9865	1.67	Q V				
14+25	0.9982	1.70	Q V				
14+30	1.0103	1.75	Q V				
14+35	1.0226	1.79	Q V				
14+40	1.0352	1.84	Q V				

14+45	1.0482	1.89	Q	V				
14+50	1.0616	1.94	Q	V				
14+55	1.0754	2.00	Q	V				
15+ 0	1.0897	2.07	Q	V				
15+ 5	1.1045	2.15	Q	V				
15+10	1.1198	2.23	Q	V				
15+15	1.1359	2.33	Q	V				
15+20	1.1527	2.44	Q	V				
15+25	1.1699	2.50	Q	V				
15+30	1.1862	2.37	Q	V				
15+35	1.2023	2.34	Q	V				
15+40	1.2197	2.52	Q	V				
15+45	1.2389	2.80	Q	V				
15+50	1.2613	3.24	Q	V				
15+55	1.2881	3.90	Q	V				
16+ 0	1.3242	5.24	Q	V				
16+ 5	1.3850	8.83	Q	V				
16+10	1.4980	16.40	Q	V				
16+15	1.5811	12.06	Q	V				
16+20	1.6170	5.22	Q	V				
16+25	1.6393	3.24	Q	V				
16+30	1.6576	2.65	Q	V				
16+35	1.6748	2.51	Q	V				
16+40	1.6907	2.31	Q	V				
16+45	1.7054	2.14	Q	V				
16+50	1.7192	2.00	Q	V				
16+55	1.7321	1.88	Q	V				
17+ 0	1.7444	1.78	Q	V				
17+ 5	1.7561	1.70	Q	V				
17+10	1.7673	1.62	Q	V				
17+15	1.7780	1.56	Q	V				
17+20	1.7884	1.50	Q	V				
17+25	1.7984	1.45	Q	V				
17+30	1.8081	1.41	Q	V				
17+35	1.8174	1.36	Q	V				
17+40	1.8266	1.33	Q	V				
17+45	1.8355	1.29	Q	V				
17+50	1.8441	1.26	Q	V				
17+55	1.8526	1.23	Q	V				
18+ 0	1.8609	1.20	Q	V				
18+ 5	1.8689	1.17	Q	V				
18+10	1.8767	1.13	Q	V				
18+15	1.8843	1.10	Q	V				
18+20	1.8918	1.08	Q	V				
18+25	1.8991	1.06	Q	V				
18+30	1.9062	1.04	Q	V				
18+35	1.9133	1.02	Q	V				
18+40	1.9202	1.00	Q	V				
18+45	1.9270	0.99	Q	V				
18+50	1.9337	0.97	Q	V				
18+55	1.9403	0.96	Q	V				
19+ 0	1.9468	0.94	Q	V				
19+ 5	1.9532	0.93	Q	V				
19+10	1.9595	0.92	Q	V				
19+15	1.9657	0.90	Q	V				
19+20	1.9719	0.89	Q	V				
19+25	1.9779	0.88	Q	V				
19+30	1.9839	0.87	Q	V				
19+35	1.9898	0.86	Q	V				

19+40	1.9956	0.85	Q				V
19+45	2.0014	0.84	Q				V
19+50	2.0071	0.83	Q				V
19+55	2.0128	0.82	Q				V
20+ 0	2.0183	0.81	Q				V
20+ 5	2.0238	0.80	Q				V
20+10	2.0293	0.79	Q				V
20+15	2.0347	0.78	Q				V
20+20	2.0401	0.78	Q				V
20+25	2.0453	0.77	Q				V
20+30	2.0506	0.76	Q				V
20+35	2.0558	0.75	Q				V
20+40	2.0609	0.75	Q				V
20+45	2.0660	0.74	Q				V
20+50	2.0711	0.73	Q				V
20+55	2.0761	0.73	Q				V
21+ 0	2.0810	0.72	Q				V
21+ 5	2.0860	0.71	Q				V
21+10	2.0909	0.71	Q				V
21+15	2.0957	0.70	Q				V
21+20	2.1005	0.70	Q				V
21+25	2.1053	0.69	Q				V
21+30	2.1100	0.69	Q				V
21+35	2.1147	0.68	Q				V
21+40	2.1193	0.68	Q				V
21+45	2.1239	0.67	Q				V
21+50	2.1285	0.67	Q				V
21+55	2.1331	0.66	Q				V
22+ 0	2.1376	0.66	Q				V
22+ 5	2.1421	0.65	Q				V
22+10	2.1465	0.65	Q				V
22+15	2.1509	0.64	Q				V
22+20	2.1553	0.64	Q				V
22+25	2.1597	0.63	Q				V
22+30	2.1640	0.63	Q				V
22+35	2.1683	0.63	Q				V
22+40	2.1726	0.62	Q				V
22+45	2.1769	0.62	Q				V
22+50	2.1811	0.61	Q				V
22+55	2.1853	0.61	Q				V
23+ 0	2.1894	0.61	Q				V
23+ 5	2.1936	0.60	Q				V
23+10	2.1977	0.60	Q				V
23+15	2.2018	0.59	Q				V
23+20	2.2059	0.59	Q				V
23+25	2.2099	0.59	Q				V
23+30	2.2140	0.58	Q				V
23+35	2.2180	0.58	Q				V
23+40	2.2219	0.58	Q				V
23+45	2.2259	0.57	Q				V
23+50	2.2298	0.57	Q				V
23+55	2.2338	0.57	Q				V
24+ 0	2.2377	0.57	Q				V
24+ 5	2.2412	0.51	Q				V
24+10	2.2428	0.24	Q				V
24+15	2.2431	0.05	Q				V
24+20	2.2432	0.01	Q				V

U n i t H y d r o g r a p h A n a l y s i s

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Study date 03/13/23

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San Bernardino County Synthetic Unit Hydrology Method
Manual date - August 1986

Program License Serial Number 6279

265.24 EUCLID AVE
POST-PROJECT - AREA C2
100-YEAR 24-HOUR UNIT HYDROGRAPH

Storm Event Year = 100

Antecedent Moisture Condition = 2

English (in-lb) Input Units Used

English Rainfall Data (Inches) Input Values Used

English Units used in output format

Area averaged rainfall intensity isohyetal data:

Sub-Area (Ac.)	Duration (hours)	Isohyetal (In)
Rainfall data for year 100		
3.47	1	1.20
Rainfall data for year 100		
3.47	6	3.00
Rainfall data for year 100		
3.47	24	6.00

++

******** Area-averaged max loss rate, Fm ********

SCS curve No.(AMCII)	SCS curve NO.(AMC 2)	Area (Ac.)	Area Fraction	Fp(Fig C6) (In/Hr)	Ap (dec.)	Fm (In/Hr)
56.0	56.0	3.47	1.000	0.734	0.100	0.073

Area-averaged adjusted loss rate Fm (In/Hr) = 0.073

********* Area-Averaged low loss rate fraction, Yb **********

Area (Ac.)	Area Fract	SCS CN (AMC2)	SCS CN (AMC2)	S	Pervious Yield Fr
0.35	0.100	56.0	56.0	7.86	0.266
3.12	0.900	98.0	98.0	0.20	0.960

Area-averaged catchment yield fraction, Y = 0.891
Area-averaged low loss fraction, Yb = 0.109
User entry of time of concentration = 0.188 (hours)
++
Watershed area = 3.47(Ac.)
Catchment Lag time = 0.150 hours
Unit interval = 5.000 minutes
Unit interval percentage of lag time = 55.4078
Hydrograph baseflow = 0.00(CFS)
Average maximum watershed loss rate(Fm) = 0.073(In/Hr)
Average low loss rate fraction (Yb) = 0.109 (decimal)
VALLEY DEVELOPED S-Graph Selected
Computed peak 5-minute rainfall = 0.444(In)
Computed peak 30-minute rainfall = 0.909(In)
Specified peak 1-hour rainfall = 1.200(In)
Computed peak 3-hour rainfall = 2.105(In)
Specified peak 6-hour rainfall = 3.000(In)
Specified peak 24-hour rainfall = 6.000(In)

Rainfall depth area reduction factors:
Using a total area of 3.47(Ac.) (Ref: fig. E-4)

5-minute factor = 1.000 Adjusted rainfall = 0.444(In)
30-minute factor = 1.000 Adjusted rainfall = 0.909(In)
1-hour factor = 1.000 Adjusted rainfall = 1.200(In)
3-hour factor = 1.000 Adjusted rainfall = 2.105(In)
6-hour factor = 1.000 Adjusted rainfall = 3.000(In)
24-hour factor = 1.000 Adjusted rainfall = 6.000(In)

U n i t H y d r o g r a p h
++

Interval Number	'S' Graph Mean values	Unit Hydrograph ((CFS))
	(K = 41.97 (CFS))	
1	5.583	2.343
2	36.027	12.776
3	76.684	17.062
4	93.437	7.030
5	98.164	1.984
6	99.285	0.471
7	100.000	0.300

Peak Unit Number	Adjusted mass rainfall (In)	Unit rainfall (In)
1	0.4441	0.4441
2	0.5859	0.1419
3	0.6891	0.1032

4	0.7731	0.0840
5	0.8453	0.0722
6	0.9093	0.0640
7	0.9671	0.0578
8	1.0202	0.0531
9	1.0694	0.0492
10	1.1154	0.0460
11	1.1588	0.0433
12	1.1998	0.0410
13	1.2499	0.0501
14	1.2982	0.0483
15	1.3449	0.0466
16	1.3900	0.0451
17	1.4338	0.0438
18	1.4763	0.0425
19	1.5177	0.0414
20	1.5581	0.0403
21	1.5975	0.0394
22	1.6359	0.0385
23	1.6736	0.0376
24	1.7104	0.0368
25	1.7465	0.0361
26	1.7819	0.0354
27	1.8166	0.0347
28	1.8507	0.0341
29	1.8842	0.0335
30	1.9172	0.0330
31	1.9496	0.0324
32	1.9815	0.0319
33	2.0130	0.0314
34	2.0440	0.0310
35	2.0745	0.0305
36	2.1046	0.0301
37	2.1343	0.0297
38	2.1636	0.0293
39	2.1925	0.0289
40	2.2211	0.0286
41	2.2493	0.0282
42	2.2772	0.0279
43	2.3048	0.0276
44	2.3320	0.0273
45	2.3590	0.0270
46	2.3857	0.0267
47	2.4121	0.0264
48	2.4382	0.0261
49	2.4640	0.0258
50	2.4896	0.0256
51	2.5149	0.0253
52	2.5400	0.0251
53	2.5649	0.0249
54	2.5895	0.0246
55	2.6140	0.0244
56	2.6381	0.0242
57	2.6621	0.0240
58	2.6859	0.0238
59	2.7095	0.0236
60	2.7329	0.0234
61	2.7561	0.0232
62	2.7791	0.0230

63	2.8019	0.0228
64	2.8246	0.0227
65	2.8471	0.0225
66	2.8694	0.0223
67	2.8916	0.0222
68	2.9135	0.0220
69	2.9354	0.0218
70	2.9571	0.0217
71	2.9786	0.0215
72	3.0000	0.0214
73	3.0207	0.0208
74	3.0413	0.0206
75	3.0618	0.0205
76	3.0822	0.0203
77	3.1024	0.0202
78	3.1225	0.0201
79	3.1424	0.0200
80	3.1622	0.0198
81	3.1819	0.0197
82	3.2015	0.0196
83	3.2210	0.0195
84	3.2403	0.0193
85	3.2596	0.0192
86	3.2787	0.0191
87	3.2977	0.0190
88	3.3166	0.0189
89	3.3354	0.0188
90	3.3541	0.0187
91	3.3727	0.0186
92	3.3911	0.0185
93	3.4095	0.0184
94	3.4278	0.0183
95	3.4460	0.0182
96	3.4641	0.0181
97	3.4821	0.0180
98	3.5000	0.0179
99	3.5178	0.0178
100	3.5355	0.0177
101	3.5531	0.0176
102	3.5707	0.0175
103	3.5881	0.0175
104	3.6055	0.0174
105	3.6228	0.0173
106	3.6400	0.0172
107	3.6572	0.0171
108	3.6742	0.0170
109	3.6912	0.0170
110	3.7081	0.0169
111	3.7249	0.0168
112	3.7416	0.0167
113	3.7583	0.0167
114	3.7749	0.0166
115	3.7914	0.0165
116	3.8079	0.0164
117	3.8242	0.0164
118	3.8405	0.0163
119	3.8568	0.0162
120	3.8730	0.0162
121	3.8891	0.0161

122	3.9051	0.0160
123	3.9211	0.0160
124	3.9370	0.0159
125	3.9528	0.0158
126	3.9686	0.0158
127	3.9843	0.0157
128	4.0000	0.0157
129	4.0156	0.0156
130	4.0311	0.0155
131	4.0466	0.0155
132	4.0620	0.0154
133	4.0773	0.0154
134	4.0926	0.0153
135	4.1079	0.0152
136	4.1231	0.0152
137	4.1382	0.0151
138	4.1533	0.0151
139	4.1683	0.0150
140	4.1833	0.0150
141	4.1982	0.0149
142	4.2130	0.0149
143	4.2279	0.0148
144	4.2426	0.0148
145	4.2573	0.0147
146	4.2720	0.0147
147	4.2866	0.0146
148	4.3011	0.0146
149	4.3156	0.0145
150	4.3301	0.0145
151	4.3445	0.0144
152	4.3589	0.0144
153	4.3732	0.0143
154	4.3875	0.0143
155	4.4017	0.0142
156	4.4158	0.0142
157	4.4300	0.0141
158	4.4441	0.0141
159	4.4581	0.0140
160	4.4721	0.0140
161	4.4861	0.0140
162	4.5000	0.0139
163	4.5138	0.0139
164	4.5277	0.0138
165	4.5414	0.0138
166	4.5552	0.0137
167	4.5689	0.0137
168	4.5825	0.0137
169	4.5962	0.0136
170	4.6097	0.0136
171	4.6233	0.0135
172	4.6368	0.0135
173	4.6502	0.0135
174	4.6637	0.0134
175	4.6770	0.0134
176	4.6904	0.0133
177	4.7037	0.0133
178	4.7170	0.0133
179	4.7302	0.0132
180	4.7434	0.0132

181	4.7565	0.0132
182	4.7697	0.0131
183	4.7828	0.0131
184	4.7958	0.0130
185	4.8088	0.0130
186	4.8218	0.0130
187	4.8347	0.0129
188	4.8476	0.0129
189	4.8605	0.0129
190	4.8734	0.0128
191	4.8862	0.0128
192	4.8989	0.0128
193	4.9117	0.0127
194	4.9244	0.0127
195	4.9371	0.0127
196	4.9497	0.0126
197	4.9623	0.0126
198	4.9749	0.0126
199	4.9875	0.0125
200	5.0000	0.0125
201	5.0125	0.0125
202	5.0249	0.0125
203	5.0373	0.0124
204	5.0497	0.0124
205	5.0621	0.0124
206	5.0744	0.0123
207	5.0867	0.0123
208	5.0990	0.0123
209	5.1112	0.0122
210	5.1234	0.0122
211	5.1356	0.0122
212	5.1478	0.0122
213	5.1599	0.0121
214	5.1720	0.0121
215	5.1841	0.0121
216	5.1961	0.0120
217	5.2081	0.0120
218	5.2201	0.0120
219	5.2321	0.0120
220	5.2440	0.0119
221	5.2559	0.0119
222	5.2678	0.0119
223	5.2796	0.0119
224	5.2915	0.0118
225	5.3033	0.0118
226	5.3150	0.0118
227	5.3268	0.0117
228	5.3385	0.0117
229	5.3502	0.0117
230	5.3619	0.0117
231	5.3735	0.0116
232	5.3851	0.0116
233	5.3967	0.0116
234	5.4083	0.0116
235	5.4198	0.0115
236	5.4314	0.0115
237	5.4429	0.0115
238	5.4543	0.0115
239	5.4658	0.0114

240	5.4772	0.0114
241	5.4886	0.0114
242	5.5000	0.0114
243	5.5113	0.0114
244	5.5227	0.0113
245	5.5340	0.0113
246	5.5452	0.0113
247	5.5565	0.0113
248	5.5677	0.0112
249	5.5790	0.0112
250	5.5901	0.0112
251	5.6013	0.0112
252	5.6125	0.0111
253	5.6236	0.0111
254	5.6347	0.0111
255	5.6458	0.0111
256	5.6568	0.0111
257	5.6679	0.0110
258	5.6789	0.0110
259	5.6899	0.0110
260	5.7008	0.0110
261	5.7118	0.0110
262	5.7227	0.0109
263	5.7336	0.0109
264	5.7445	0.0109
265	5.7554	0.0109
266	5.7663	0.0108
267	5.7771	0.0108
268	5.7879	0.0108
269	5.7987	0.0108
270	5.8094	0.0108
271	5.8202	0.0107
272	5.8309	0.0107
273	5.8416	0.0107
274	5.8523	0.0107
275	5.8630	0.0107
276	5.8736	0.0107
277	5.8843	0.0106
278	5.8949	0.0106
279	5.9055	0.0106
280	5.9161	0.0106
281	5.9266	0.0106
282	5.9371	0.0105
283	5.9477	0.0105
284	5.9582	0.0105
285	5.9686	0.0105
286	5.9791	0.0105
287	5.9895	0.0104
288	6.0000	0.0104

Unit Period (number)	Unit Rainfall (In)	Unit Soil-Loss (In)	Effective Rainfall (In)
1	0.0104	0.0011	0.0093
2	0.0104	0.0011	0.0093
3	0.0105	0.0011	0.0093
4	0.0105	0.0011	0.0094
5	0.0105	0.0011	0.0094

6	0.0106	0.0012	0.0094
7	0.0106	0.0012	0.0094
8	0.0106	0.0012	0.0095
9	0.0107	0.0012	0.0095
10	0.0107	0.0012	0.0095
11	0.0107	0.0012	0.0095
12	0.0107	0.0012	0.0096
13	0.0108	0.0012	0.0096
14	0.0108	0.0012	0.0096
15	0.0108	0.0012	0.0096
16	0.0108	0.0012	0.0097
17	0.0109	0.0012	0.0097
18	0.0109	0.0012	0.0097
19	0.0110	0.0012	0.0098
20	0.0110	0.0012	0.0098
21	0.0110	0.0012	0.0098
22	0.0110	0.0012	0.0098
23	0.0111	0.0012	0.0099
24	0.0111	0.0012	0.0099
25	0.0111	0.0012	0.0099
26	0.0112	0.0012	0.0100
27	0.0112	0.0012	0.0100
28	0.0112	0.0012	0.0100
29	0.0113	0.0012	0.0101
30	0.0113	0.0012	0.0101
31	0.0114	0.0012	0.0101
32	0.0114	0.0012	0.0101
33	0.0114	0.0012	0.0102
34	0.0114	0.0012	0.0102
35	0.0115	0.0013	0.0102
36	0.0115	0.0013	0.0103
37	0.0116	0.0013	0.0103
38	0.0116	0.0013	0.0103
39	0.0116	0.0013	0.0104
40	0.0117	0.0013	0.0104
41	0.0117	0.0013	0.0104
42	0.0117	0.0013	0.0105
43	0.0118	0.0013	0.0105
44	0.0118	0.0013	0.0105
45	0.0119	0.0013	0.0106
46	0.0119	0.0013	0.0106
47	0.0120	0.0013	0.0107
48	0.0120	0.0013	0.0107
49	0.0120	0.0013	0.0107
50	0.0121	0.0013	0.0108
51	0.0121	0.0013	0.0108
52	0.0122	0.0013	0.0108
53	0.0122	0.0013	0.0109
54	0.0122	0.0013	0.0109
55	0.0123	0.0013	0.0110
56	0.0123	0.0013	0.0110
57	0.0124	0.0014	0.0110
58	0.0124	0.0014	0.0111
59	0.0125	0.0014	0.0111
60	0.0125	0.0014	0.0112
61	0.0126	0.0014	0.0112
62	0.0126	0.0014	0.0112
63	0.0127	0.0014	0.0113
64	0.0127	0.0014	0.0113

65	0.0128	0.0014	0.0114
66	0.0128	0.0014	0.0114
67	0.0129	0.0014	0.0115
68	0.0129	0.0014	0.0115
69	0.0130	0.0014	0.0116
70	0.0130	0.0014	0.0116
71	0.0131	0.0014	0.0117
72	0.0131	0.0014	0.0117
73	0.0132	0.0014	0.0118
74	0.0132	0.0014	0.0118
75	0.0133	0.0015	0.0119
76	0.0133	0.0015	0.0119
77	0.0134	0.0015	0.0120
78	0.0135	0.0015	0.0120
79	0.0135	0.0015	0.0121
80	0.0136	0.0015	0.0121
81	0.0137	0.0015	0.0122
82	0.0137	0.0015	0.0122
83	0.0138	0.0015	0.0123
84	0.0138	0.0015	0.0123
85	0.0139	0.0015	0.0124
86	0.0140	0.0015	0.0124
87	0.0140	0.0015	0.0125
88	0.0141	0.0015	0.0125
89	0.0142	0.0015	0.0126
90	0.0142	0.0016	0.0127
91	0.0143	0.0016	0.0128
92	0.0144	0.0016	0.0128
93	0.0145	0.0016	0.0129
94	0.0145	0.0016	0.0129
95	0.0146	0.0016	0.0130
96	0.0147	0.0016	0.0131
97	0.0148	0.0016	0.0131
98	0.0148	0.0016	0.0132
99	0.0149	0.0016	0.0133
100	0.0150	0.0016	0.0133
101	0.0151	0.0016	0.0134
102	0.0151	0.0017	0.0135
103	0.0152	0.0017	0.0136
104	0.0153	0.0017	0.0136
105	0.0154	0.0017	0.0137
106	0.0155	0.0017	0.0138
107	0.0156	0.0017	0.0139
108	0.0157	0.0017	0.0139
109	0.0158	0.0017	0.0141
110	0.0158	0.0017	0.0141
111	0.0160	0.0017	0.0142
112	0.0160	0.0017	0.0143
113	0.0162	0.0018	0.0144
114	0.0162	0.0018	0.0145
115	0.0164	0.0018	0.0146
116	0.0164	0.0018	0.0147
117	0.0166	0.0018	0.0148
118	0.0167	0.0018	0.0148
119	0.0168	0.0018	0.0150
120	0.0169	0.0018	0.0151
121	0.0170	0.0019	0.0152
122	0.0171	0.0019	0.0153
123	0.0173	0.0019	0.0154

124	0.0174	0.0019	0.0155
125	0.0175	0.0019	0.0156
126	0.0176	0.0019	0.0157
127	0.0178	0.0019	0.0159
128	0.0179	0.0020	0.0159
129	0.0181	0.0020	0.0161
130	0.0182	0.0020	0.0162
131	0.0184	0.0020	0.0164
132	0.0185	0.0020	0.0165
133	0.0187	0.0020	0.0166
134	0.0188	0.0021	0.0167
135	0.0190	0.0021	0.0169
136	0.0191	0.0021	0.0170
137	0.0193	0.0021	0.0172
138	0.0195	0.0021	0.0173
139	0.0197	0.0021	0.0176
140	0.0198	0.0022	0.0177
141	0.0201	0.0022	0.0179
142	0.0202	0.0022	0.0180
143	0.0205	0.0022	0.0182
144	0.0206	0.0022	0.0184
145	0.0214	0.0023	0.0190
146	0.0215	0.0023	0.0192
147	0.0218	0.0024	0.0195
148	0.0220	0.0024	0.0196
149	0.0223	0.0024	0.0199
150	0.0225	0.0025	0.0200
151	0.0228	0.0025	0.0203
152	0.0230	0.0025	0.0205
153	0.0234	0.0026	0.0208
154	0.0236	0.0026	0.0210
155	0.0240	0.0026	0.0214
156	0.0242	0.0026	0.0216
157	0.0246	0.0027	0.0219
158	0.0249	0.0027	0.0222
159	0.0253	0.0028	0.0226
160	0.0256	0.0028	0.0228
161	0.0261	0.0028	0.0233
162	0.0264	0.0029	0.0235
163	0.0270	0.0029	0.0240
164	0.0273	0.0030	0.0243
165	0.0279	0.0030	0.0248
166	0.0282	0.0031	0.0251
167	0.0289	0.0032	0.0258
168	0.0293	0.0032	0.0261
169	0.0301	0.0033	0.0268
170	0.0305	0.0033	0.0272
171	0.0314	0.0034	0.0280
172	0.0319	0.0035	0.0284
173	0.0330	0.0036	0.0294
174	0.0335	0.0037	0.0299
175	0.0347	0.0038	0.0309
176	0.0354	0.0039	0.0315
177	0.0368	0.0040	0.0328
178	0.0376	0.0041	0.0335
179	0.0394	0.0043	0.0351
180	0.0403	0.0044	0.0359
181	0.0425	0.0046	0.0379
182	0.0438	0.0048	0.0390

183	0.0466	0.0051	0.0415
184	0.0483	0.0053	0.0430
185	0.0410	0.0045	0.0366
186	0.0433	0.0047	0.0386
187	0.0492	0.0054	0.0438
188	0.0531	0.0058	0.0473
189	0.0640	0.0061	0.0578
190	0.0722	0.0061	0.0661
191	0.1032	0.0061	0.0971
192	0.1419	0.0061	0.1358
193	0.4441	0.0061	0.4379
194	0.0840	0.0061	0.0779
195	0.0578	0.0061	0.0517
196	0.0460	0.0050	0.0410
197	0.0501	0.0055	0.0447
198	0.0451	0.0049	0.0402
199	0.0414	0.0045	0.0369
200	0.0385	0.0042	0.0343
201	0.0361	0.0039	0.0322
202	0.0341	0.0037	0.0304
203	0.0324	0.0035	0.0289
204	0.0310	0.0034	0.0276
205	0.0297	0.0032	0.0265
206	0.0286	0.0031	0.0255
207	0.0276	0.0030	0.0246
208	0.0267	0.0029	0.0238
209	0.0258	0.0028	0.0230
210	0.0251	0.0027	0.0224
211	0.0244	0.0027	0.0218
212	0.0238	0.0026	0.0212
213	0.0232	0.0025	0.0207
214	0.0227	0.0025	0.0202
215	0.0222	0.0024	0.0197
216	0.0217	0.0024	0.0193
217	0.0208	0.0023	0.0185
218	0.0203	0.0022	0.0181
219	0.0200	0.0022	0.0178
220	0.0196	0.0021	0.0174
221	0.0192	0.0021	0.0171
222	0.0189	0.0021	0.0168
223	0.0186	0.0020	0.0166
224	0.0183	0.0020	0.0163
225	0.0180	0.0020	0.0160
226	0.0177	0.0019	0.0158
227	0.0175	0.0019	0.0156
228	0.0172	0.0019	0.0153
229	0.0170	0.0019	0.0151
230	0.0167	0.0018	0.0149
231	0.0165	0.0018	0.0147
232	0.0163	0.0018	0.0145
233	0.0161	0.0018	0.0143
234	0.0159	0.0017	0.0142
235	0.0157	0.0017	0.0140
236	0.0155	0.0017	0.0138
237	0.0154	0.0017	0.0137
238	0.0152	0.0017	0.0135
239	0.0150	0.0016	0.0134
240	0.0149	0.0016	0.0132
241	0.0147	0.0016	0.0131

242	0.0146	0.0016	0.0130
243	0.0144	0.0016	0.0128
244	0.0143	0.0016	0.0127
245	0.0141	0.0015	0.0126
246	0.0140	0.0015	0.0125
247	0.0139	0.0015	0.0124
248	0.0137	0.0015	0.0122
249	0.0136	0.0015	0.0121
250	0.0135	0.0015	0.0120
251	0.0134	0.0015	0.0119
252	0.0133	0.0014	0.0118
253	0.0132	0.0014	0.0117
254	0.0130	0.0014	0.0116
255	0.0129	0.0014	0.0115
256	0.0128	0.0014	0.0114
257	0.0127	0.0014	0.0114
258	0.0126	0.0014	0.0113
259	0.0125	0.0014	0.0112
260	0.0125	0.0014	0.0111
261	0.0124	0.0013	0.0110
262	0.0123	0.0013	0.0109
263	0.0122	0.0013	0.0109
264	0.0121	0.0013	0.0108
265	0.0120	0.0013	0.0107
266	0.0119	0.0013	0.0106
267	0.0119	0.0013	0.0106
268	0.0118	0.0013	0.0105
269	0.0117	0.0013	0.0104
270	0.0116	0.0013	0.0104
271	0.0115	0.0013	0.0103
272	0.0115	0.0013	0.0102
273	0.0114	0.0012	0.0102
274	0.0113	0.0012	0.0101
275	0.0113	0.0012	0.0100
276	0.0112	0.0012	0.0100
277	0.0111	0.0012	0.0099
278	0.0111	0.0012	0.0099
279	0.0110	0.0012	0.0098
280	0.0109	0.0012	0.0097
281	0.0109	0.0012	0.0097
282	0.0108	0.0012	0.0096
283	0.0107	0.0012	0.0096
284	0.0107	0.0012	0.0095
285	0.0106	0.0012	0.0095
286	0.0106	0.0012	0.0094
287	0.0105	0.0011	0.0094
288	0.0105	0.0011	0.0093

Total soil rain loss = 0.59(In)
Total effective rainfall = 5.41(In)
Peak flow rate in flood hydrograph = 9.78(CFS)

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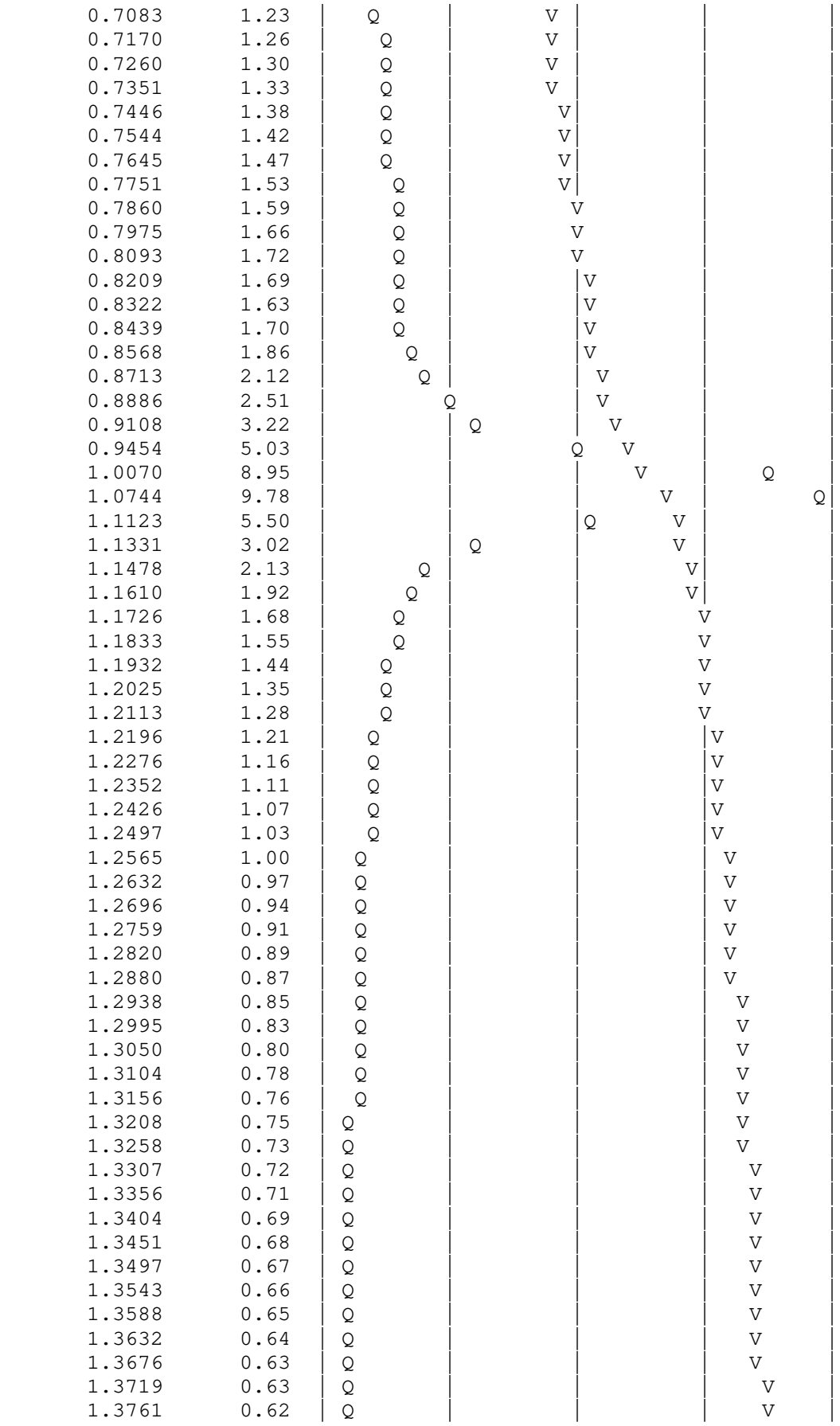
24 - H O U R S T O R M
R u n o f f H y d r o g r a p h

Hydrograph in 5 Minute intervals ((CFS))

Time(h+m)	Volume Ac.Ft	Q(CFS)	0	2.5	5.0	7.5	10.0
0+ 5	0.0001	0.02	Q				
0+10	0.0011	0.14	Q				
0+15	0.0032	0.30	VQ				
0+20	0.0057	0.37	VQ				
0+25	0.0083	0.38	VQ				
0+30	0.0110	0.39	VQ				
0+35	0.0137	0.39	VQ				
0+40	0.0165	0.39	VQ				
0+45	0.0192	0.40	VQ				
0+50	0.0219	0.40	VQ				
0+55	0.0247	0.40	VQ				
1+ 0	0.0274	0.40	VQ				
1+ 5	0.0302	0.40	VQ				
1+10	0.0329	0.40	VQ				
1+15	0.0357	0.40	VQ				
1+20	0.0385	0.40	VQ				
1+25	0.0413	0.40	|Q				
1+30	0.0441	0.41	|Q				
1+35	0.0469	0.41	|Q				
1+40	0.0497	0.41	|Q				
1+45	0.0525	0.41	|Q				
1+50	0.0553	0.41	|Q				
1+55	0.0582	0.41	|Q				
2+ 0	0.0610	0.41	|Q				
2+ 5	0.0639	0.41	|Q				
2+10	0.0667	0.42	|Q				
2+15	0.0696	0.42	|Q				
2+20	0.0725	0.42	|Q				
2+25	0.0754	0.42	|Q				
2+30	0.0783	0.42	|QV				
2+35	0.0812	0.42	|QV				
2+40	0.0841	0.42	|QV				
2+45	0.0870	0.42	|QV				
2+50	0.0899	0.43	|QV				
2+55	0.0929	0.43	|QV				
3+ 0	0.0958	0.43	|QV				
3+ 5	0.0988	0.43	|QV				
3+10	0.1017	0.43	|QV				
3+15	0.1047	0.43	|QV				
3+20	0.1077	0.43	|QV				
3+25	0.1107	0.44	|QV				
3+30	0.1137	0.44	|QV				
3+35	0.1167	0.44	|QV				
3+40	0.1198	0.44	|Q V				
3+45	0.1228	0.44	|Q V				
3+50	0.1258	0.44	|Q V				
3+55	0.1289	0.44	|Q V				
4+ 0	0.1320	0.45	|Q V				
4+ 5	0.1350	0.45	|Q V				
4+10	0.1381	0.45	|Q V				
4+15	0.1412	0.45	|Q V				
4+20	0.1443	0.45	|Q V				
4+25	0.1475	0.45	|Q V				
4+30	0.1506	0.45	|Q V				
4+35	0.1537	0.46	|Q V				
4+40	0.1569	0.46	|Q V				

4+45	0.1601	0.46	Q V	|	|	|
4+50	0.1632	0.46	Q V	|	|	|
4+55	0.1664	0.46	Q V	|	|	|
5+ 0	0.1696	0.46	Q V	|	|	|
5+ 5	0.1729	0.47	Q V	|	|	|
5+10	0.1761	0.47	Q V	|	|	|
5+15	0.1793	0.47	Q V	|	|	|
5+20	0.1826	0.47	Q V	|	|	|
5+25	0.1858	0.47	Q V	|	|	|
5+30	0.1891	0.48	Q V	|	|	|
5+35	0.1924	0.48	Q V	|	|	|
5+40	0.1957	0.48	Q V	|	|	|
5+45	0.1990	0.48	Q V	|	|	|
5+50	0.2023	0.48	Q V	|	|	|
5+55	0.2057	0.49	Q V	|	|	|
6+ 0	0.2090	0.49	Q V	|	|	|
6+ 5	0.2124	0.49	Q V	|	|	|
6+10	0.2158	0.49	Q V	|	|	|
6+15	0.2192	0.49	Q V	|	|	|
6+20	0.2226	0.50	Q V	|	|	|
6+25	0.2260	0.50	Q V	|	|	|
6+30	0.2295	0.50	Q V	|	|	|
6+35	0.2329	0.50	Q V	|	|	|
6+40	0.2364	0.50	Q V	|	|	|
6+45	0.2399	0.51	Q V	|	|	|
6+50	0.2434	0.51	Q V	|	|	|
6+55	0.2469	0.51	Q V	|	|	|
7+ 0	0.2504	0.51	Q V	|	|	|
7+ 5	0.2540	0.52	Q V	|	|	|
7+10	0.2575	0.52	Q V	|	|	|
7+15	0.2611	0.52	Q V	|	|	|
7+20	0.2647	0.52	Q V	|	|	|
7+25	0.2683	0.52	Q V	|	|	|
7+30	0.2719	0.53	Q V	|	|	|
7+35	0.2756	0.53	Q V	|	|	|
7+40	0.2793	0.53	Q V	|	|	|
7+45	0.2829	0.54	Q V	|	|	|
7+50	0.2866	0.54	Q V	|	|	|
7+55	0.2904	0.54	Q V	|	|	|
8+ 0	0.2941	0.54	Q V	|	|	|
8+ 5	0.2979	0.55	Q V	|	|	|
8+10	0.3016	0.55	Q V	|	|	|
8+15	0.3054	0.55	Q V	|	|	|
8+20	0.3093	0.55	Q V	|	|	|
8+25	0.3131	0.56	Q V	|	|	|
8+30	0.3170	0.56	Q V	|	|	|
8+35	0.3208	0.56	Q V	|	|	|
8+40	0.3247	0.57	Q V	|	|	|
8+45	0.3287	0.57	Q V	|	|	|
8+50	0.3326	0.57	Q V	|	|	|
8+55	0.3366	0.58	Q V	|	|	|
9+ 0	0.3406	0.58	Q V	|	|	|
9+ 5	0.3446	0.58	Q V	|	|	|
9+10	0.3486	0.59	Q V	|	|	|
9+15	0.3527	0.59	Q V	|	|	|
9+20	0.3568	0.59	Q V	|	|	|
9+25	0.3609	0.60	Q V	|	|	|
9+30	0.3650	0.60	Q V	|	|	|
9+35	0.3692	0.60	Q V	|	|	|

9+40	0.3734	0.61	Q	V			
9+45	0.3776	0.61	Q	V			
9+50	0.3818	0.62	Q	V			
9+55	0.3861	0.62	Q	V			
10+ 0	0.3904	0.62	Q	V			
10+ 5	0.3947	0.63	Q	V			
10+10	0.3991	0.63	Q	V			
10+15	0.4035	0.64	Q	V			
10+20	0.4079	0.64	Q	V			
10+25	0.4123	0.65	Q	V			
10+30	0.4168	0.65	Q	V			
10+35	0.4213	0.66	Q	V			
10+40	0.4259	0.66	Q	V			
10+45	0.4305	0.67	Q	V			
10+50	0.4351	0.67	Q	V			
10+55	0.4397	0.68	Q	V			
11+ 0	0.4444	0.68	Q	V			
11+ 5	0.4492	0.69	Q	V			
11+10	0.4539	0.69	Q	V			
11+15	0.4587	0.70	Q	V			
11+20	0.4636	0.70	Q	V			
11+25	0.4685	0.71	Q	V			
11+30	0.4734	0.72	Q	V			
11+35	0.4784	0.72	Q	V			
11+40	0.4834	0.73	Q	V			
11+45	0.4885	0.74	Q	V			
11+50	0.4936	0.74	Q	V			
11+55	0.4988	0.75	Q	V			
12+ 0	0.5040	0.76	Q	V			
12+ 5	0.5093	0.77	Q	V			
12+10	0.5146	0.78	Q	V			
12+15	0.5201	0.79	Q	V			
12+20	0.5257	0.81	Q	V			
12+25	0.5313	0.82	Q	V			
12+30	0.5370	0.82	Q	V			
12+35	0.5427	0.83	Q	V			
12+40	0.5485	0.84	Q	V			
12+45	0.5544	0.85	Q	V			
12+50	0.5603	0.86	Q	V			
12+55	0.5664	0.87	Q	V			
13+ 0	0.5724	0.88	Q	V			
13+ 5	0.5786	0.90	Q	V			
13+10	0.5849	0.91	Q	V			
13+15	0.5912	0.92	Q	V			
13+20	0.5976	0.93	Q	V			
13+25	0.6042	0.95	Q	V			
13+30	0.6108	0.96	Q	V			
13+35	0.6175	0.98	Q	V			
13+40	0.6243	0.99	Q	V			
13+45	0.6313	1.01	Q	V			
13+50	0.6383	1.02	Q	V			
13+55	0.6455	1.04	Q	V			
14+ 0	0.6528	1.06	Q	V			
14+ 5	0.6602	1.08	Q	V			
14+10	0.6678	1.10	Q	V			
14+15	0.6756	1.12	Q	V			
14+20	0.6835	1.15	Q	V			
14+25	0.6916	1.17	Q	V			
14+30	0.6998	1.20	Q	V			

14+35	0.7083	1.23	
14+40	0.7170	1.26	
14+45	0.7260	1.30	
14+50	0.7351	1.33	
14+55	0.7446	1.38	
15+ 0	0.7544	1.42	
15+ 5	0.7645	1.47	
15+10	0.7751	1.53	
15+15	0.7860	1.59	
15+20	0.7975	1.66	
15+25	0.8093	1.72	
15+30	0.8209	1.69	
15+35	0.8322	1.63	
15+40	0.8439	1.70	
15+45	0.8568	1.86	
15+50	0.8713	2.12	
15+55	0.8886	2.51	
16+ 0	0.9108	3.22	
16+ 5	0.9454	5.03	
16+10	1.0070	8.95	
16+15	1.0744	9.78	
16+20	1.1123	5.50	
16+25	1.1331	3.02	
16+30	1.1478	2.13	
16+35	1.1610	1.92	
16+40	1.1726	1.68	
16+45	1.1833	1.55	
16+50	1.1932	1.44	
16+55	1.2025	1.35	
17+ 0	1.2113	1.28	
17+ 5	1.2196	1.21	
17+10	1.2276	1.16	
17+15	1.2352	1.11	
17+20	1.2426	1.07	
17+25	1.2497	1.03	
17+30	1.2565	1.00	
17+35	1.2632	0.97	
17+40	1.2696	0.94	
17+45	1.2759	0.91	
17+50	1.2820	0.89	
17+55	1.2880	0.87	
18+ 0	1.2938	0.85	
18+ 5	1.2995	0.83	
18+10	1.3050	0.80	
18+15	1.3104	0.78	
18+20	1.3156	0.76	
18+25	1.3208	0.75	
18+30	1.3258	0.73	
18+35	1.3307	0.72	
18+40	1.3356	0.71	
18+45	1.3404	0.69	
18+50	1.3451	0.68	
18+55	1.3497	0.67	
19+ 0	1.3543	0.66	
19+ 5	1.3588	0.65	
19+10	1.3632	0.64	
19+15	1.3676	0.63	
19+20	1.3719	0.63	
19+25	1.3761	0.62	

19+30	1.3803	0.61	Q				V
19+35	1.3845	0.60	Q				V
19+40	1.3885	0.59	Q				V
19+45	1.3926	0.59	Q				V
19+50	1.3966	0.58	Q				V
19+55	1.4005	0.57	Q				V
20+ 0	1.4044	0.57	Q				V
20+ 5	1.4083	0.56	Q				V
20+10	1.4121	0.56	Q				V
20+15	1.4159	0.55	Q				V
20+20	1.4197	0.54	Q				V
20+25	1.4234	0.54	Q				V
20+30	1.4270	0.53	Q				V
20+35	1.4307	0.53	Q				V
20+40	1.4343	0.52	Q				V
20+45	1.4378	0.52	Q				V
20+50	1.4414	0.51	Q				V
20+55	1.4449	0.51	Q				V
21+ 0	1.4484	0.50	Q				V
21+ 5	1.4518	0.50	Q				V
21+10	1.4552	0.50	Q				V
21+15	1.4586	0.49	Q				V
21+20	1.4620	0.49	Q				V
21+25	1.4653	0.48	Q				V
21+30	1.4686	0.48	Q				V
21+35	1.4719	0.48	Q				V
21+40	1.4751	0.47	Q				V
21+45	1.4784	0.47	Q				V
21+50	1.4816	0.47	Q				V
21+55	1.4847	0.46	Q				V
22+ 0	1.4879	0.46	Q				V
22+ 5	1.4910	0.46	Q				V
22+10	1.4941	0.45	Q				V
22+15	1.4972	0.45	Q				V
22+20	1.5003	0.45	Q				V
22+25	1.5034	0.44	Q				V
22+30	1.5064	0.44	Q				V
22+35	1.5094	0.44	Q				V
22+40	1.5124	0.43	Q				V
22+45	1.5154	0.43	Q				V
22+50	1.5183	0.43	Q				V
22+55	1.5212	0.43	Q				V
23+ 0	1.5242	0.42	Q				V
23+ 5	1.5271	0.42	Q				V
23+10	1.5299	0.42	Q				V
23+15	1.5328	0.42	Q				V
23+20	1.5356	0.41	Q				V
23+25	1.5385	0.41	Q				V
23+30	1.5413	0.41	Q				V
23+35	1.5441	0.41	Q				V
23+40	1.5469	0.40	Q				V
23+45	1.5496	0.40	Q				V
23+50	1.5524	0.40	Q				V
23+55	1.5551	0.40	Q				V
24+ 0	1.5578	0.40	Q				V
24+ 5	1.5604	0.37	Q				V
24+10	1.5621	0.25	Q				V
24+15	1.5628	0.09	Q				V
24+20	1.5629	0.03	Q				V

```
   24+25       1.5630      0.01  Q          |          |          |         V|
   24+30       1.5630      0.00  Q          |          |          |          V
-------------------------------------------------------------------------------
```

APPENDIX D: OFFSITE RATIONAL METHOD CALCULATIONS

APPENDIX D.1: RATIONAL METHOD ANALYSIS, AREAS "A"

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 03/16/23

OFFSITE RATIONAL METHOD 100-YEAR HYDROLOGY, AREA A

Program License Serial Number 6279

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.200 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 2

++
Process from Point/Station 101.000 to Point/Station 103.000
**** INITIAL AREA EVALUATION ****

COMMERCIAL subarea type
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2) = 32.00
Pervious ratio(Ap) = 0.1000 Max loss rate(Fm)= 0.098(In/Hr)
Initial subarea data:
Initial area flow distance = 729.000(Ft.)
Top (of initial area) elevation = 788.000(Ft.)
Bottom (of initial area) elevation = 778.000(Ft.)
Difference in elevation = 10.000(Ft.)
Slope = 0.01372 s(%)= 1.37
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 10.012 min.
Rainfall intensity = 3.514(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.875
Subarea runoff = 30.067(CFS)
Total initial stream area = 9.780(Ac.)
Pervious area fraction = 0.100
Initial area Fm value = 0.098(In/Hr)

++
Process from Point/Station 101.000 to Point/Station 102.000
**** CONFLUENCE OF MAIN STREAMS ****

The following data inside Main Stream is listed:

```
In Main Stream number: 1
Stream flow area =      9.780(Ac.)
Runoff from this stream =     30.067(CFS)
Time of concentration =   10.01 min.
Rainfall intensity =     3.514(In/Hr)
Area averaged loss rate (Fm) =    0.0978(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Program is now starting with Main Stream No. 2


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      102.000 to Point/Station      103.000
**** INITIAL AREA EVALUATION ****
------------------------------------------------------------------------
COMMERCIAL subarea type
Decimal fraction soil group A = 1.000
Decimal fraction soil group B = 0.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 32.00
Pervious ratio(Ap) = 0.1000     Max loss rate(Fm)=     0.098(In/Hr)
Initial subarea data:
Initial area flow distance =   656.000(Ft.)
Top (of initial area) elevation =   786.000(Ft.)
Bottom (of initial area) elevation =   778.000(Ft.)
Difference in elevation =     8.000(Ft.)
Slope =    0.01220  s(%)=       1.22
TC = k(0.304)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration =    9.826 min.
Rainfall intensity =      3.553(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.875
Subarea runoff =     28.270(CFS)
Total initial stream area =        9.090(Ac.)
Pervious area fraction = 0.100
Initial area Fm value =    0.098(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      102.000 to Point/Station      103.000
**** CONFLUENCE OF MAIN STREAMS ****
------------------------------------------------------------------------
The following data inside Main Stream is listed:
In Main Stream number: 2
Stream flow area =      9.090(Ac.)
Runoff from this stream =     28.270(CFS)
Time of concentration =    9.83 min.
Rainfall intensity =     3.553(In/Hr)
Area averaged loss rate (Fm) =    0.0978(In/Hr)
Area averaged Pervious ratio (Ap) = 0.1000
Summary of stream data:

Stream Flow rate    Area    TC     Fm       Rainfall Intensity
 No.    (CFS)    (Ac.)       (min) (In/Hr)     (In/Hr)


1     30.07     9.780     10.01    0.098      3.514
2     28.27     9.090      9.83    0.098      3.553
Qmax(1) =
         1.000 *    1.000 *    30.067) +
```

```
         0.989 *    1.000 *    28.270) + =      58.013
Qmax(2) =
         1.012 *    0.981 *    30.067) +
         1.000 *    1.000 *    28.270) + =      58.122

Total of 2 main streams to confluence:
Flow rates before confluence point:
      31.067      29.270
Maximum flow rates at confluence using above data:
       58.013       58.122
Area of streams before confluence:
        9.780        9.090
Effective area values after confluence:
       18.870       18.689


Results of confluence:
Total flow rate =     58.122(CFS)
Time of concentration =     9.826 min.
Effective stream area after confluence  =     18.689(Ac.)
Study area average Pervious fraction(Ap) =  0.100
Study area average soil loss rate(Fm) =    0.098(In/Hr)
Study area total =      18.87(Ac.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      103.000 to Point/Station      104.000
**** IMPROVED CHANNEL TRAVEL TIME ****
------------------------------------------------------------------------------
Upstream point elevation =   778.000(Ft.)
Downstream point elevation =   772.000(Ft.)
Channel length thru subarea  =   631.000(Ft.)
Channel base width      =    5.000(Ft.)
Slope or 'Z' of left channel bank =  50.000
Slope or 'Z' of right channel bank =  50.000
Estimated mean flow rate at midpoint of channel =     72.855(CFS)
Manning's 'N'    = 0.015
Maximum depth of channel  =    1.000(Ft.)
Flow(q) thru subarea =     72.855(CFS)
Depth of flow =   0.538(Ft.), Average velocity =   4.249(Ft/s)
Channel flow top width =   58.774(Ft.)
Flow Velocity =    4.25(Ft/s)
Travel time  =    2.48 min.
Time of concentration =   12.30 min.
Critical depth =      0.617(Ft.)
 Adding area flow to channel
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 44.00
Pervious ratio(Ap) = 1.0000     Max loss rate(Fm)=     0.877(In/Hr)
Rainfall intensity =      3.105(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.760
Subarea runoff =     29.401(CFS) for   18.420(Ac.)
Total runoff =     87.524(CFS)
Effective area this stream =       37.11(Ac.)
Total Study Area (Main Stream No. 1) =       37.29(Ac.)
Area averaged Fm value =    0.485(In/Hr)
Depth of flow =   0.579(Ft.), Average velocity =   4.449(Ft/s)
```

```
Critical depth =      0.672(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      104.000 to Point/Station      105.000
**** IMPROVED CHANNEL TRAVEL TIME ****
------------------------------------------------------------------------
Upstream point elevation =   772.000(Ft.)
Downstream point elevation =   752.000(Ft.)
Channel length thru subarea  =  1439.000(Ft.)
Channel base width      =    5.000(Ft.)
Slope or 'Z' of left channel bank =  50.000
Slope or 'Z' of right channel bank =  50.000
Estimated mean flow rate at midpoint of channel =    108.633(CFS)
Manning's 'N'    = 0.015
Maximum depth of channel  =    1.000(Ft.)
Flow(q) thru subarea =    108.633(CFS)
Depth of flow =   0.585(Ft.), Average velocity =   5.415(Ft/s)
Channel flow top width =   63.541(Ft.)
Flow Velocity =    5.41(Ft/s)
Travel time  =    4.43 min.
Time of concentration =   16.73 min.
Critical depth =      0.734(Ft.)
 Adding area flow to channel
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 44.00
Pervious ratio(Ap) = 1.0000     Max loss rate(Fm)=     0.877(In/Hr)
Rainfall intensity =      2.582(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.661
Subarea runoff =     42.154(CFS) for   38.860(Ac.)
Total runoff =    129.678(CFS)
Effective area this stream =       75.97(Ac.)
Total Study Area (Main Stream No. 1) =       76.15(Ac.)
Area averaged Fm value =    0.685(In/Hr)
Depth of flow =   0.629(Ft.), Average velocity =   5.661(Ft/s)
Critical depth =      0.789(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      105.000 to Point/Station      106.000
**** IMPROVED CHANNEL TRAVEL TIME ****
------------------------------------------------------------------------
Upstream point elevation =   752.000(Ft.)
Downstream point elevation =   736.000(Ft.)
Channel length thru subarea  =  1300.000(Ft.)
Channel base width      =    5.000(Ft.)
Slope or 'Z' of left channel bank =  50.000
Slope or 'Z' of right channel bank =  50.000
Estimated mean flow rate at midpoint of channel =    151.764(CFS)
Manning's 'N'    = 0.015
Maximum depth of channel  =    1.000(Ft.)
Flow(q) thru subarea =    151.764(CFS)
Depth of flow =   0.686(Ft.), Average velocity =   5.627(Ft/s)
Channel flow top width =   73.617(Ft.)
Flow Velocity =    5.63(Ft/s)
Travel time  =    3.85 min.
Time of concentration =   20.58 min.
```

```
Critical depth =      0.844(Ft.)
 Adding area flow to channel
AGRICULTURE ROW CROPS subarea
Decimal fraction soil group A = 0.000
Decimal fraction soil group B = 1.000
Decimal fraction soil group C = 0.000
Decimal fraction soil group D = 0.000
SCS curve number for soil(AMC 2)  = 78.00
Pervious ratio(Ap) = 1.0000     Max loss rate(Fm)=     0.404(In/Hr)
Rainfall intensity =      2.280(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.667
Subarea runoff =     44.076(CFS) for   38.310(Ac.)
Total runoff =    173.754(CFS)
Effective area this stream =      114.28(Ac.)
Total Study Area (Main Stream No. 1) =      114.46(Ac.)
Area averaged Fm value =    0.591(In/Hr)
Depth of flow =   0.724(Ft.), Average velocity =   5.821(Ft/s)
Critical depth =      0.898(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      106.000 to Point/Station      107.000
**** IMPROVED CHANNEL TRAVEL TIME ****
------------------------------------------------------------------------
Upstream point elevation =   736.000(Ft.)
Downstream point elevation =   724.000(Ft.)
Channel length thru subarea  =  1430.000(Ft.)
Channel base width      =    5.000(Ft.)
Slope or 'Z' of left channel bank =  50.000
Slope or 'Z' of right channel bank =  50.000
Estimated mean flow rate at midpoint of channel =    185.241(CFS)
Manning's 'N'    = 0.015
Maximum depth of channel  =    1.000(Ft.)
Flow(q) thru subarea =    185.241(CFS)
Depth of flow =   0.802(Ft.), Average velocity =   5.124(Ft/s)
Channel flow top width =   85.174(Ft.)
Flow Velocity =    5.12(Ft/s)
Travel time  =    4.65 min.
Time of concentration =   25.23 min.
Critical depth =      0.922(Ft.)
 Adding area flow to channel
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 64.63
Pervious ratio(Ap) = 1.0000     Max loss rate(Fm)=     0.614(In/Hr)
Rainfall intensity =      2.018(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.634
Subarea runoff =     22.887(CFS) for   39.460(Ac.)
Total runoff =    196.642(CFS)
Effective area this stream =      153.74(Ac.)
Total Study Area (Main Stream No. 1) =      153.92(Ac.)
Area averaged Fm value =    0.597(In/Hr)
Depth of flow =   0.821(Ft.), Average velocity =   5.202(Ft/s)
Critical depth =      0.945(Ft.)
End of computations, Total Study Area =          153.92 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
```

Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.890
Area averaged SCS curve number = 56.3

APPENDIX D.2 RATIONAL METHOD ANALYSIS, AREAS "B"

San Bernardino County Rational Hydrology Program

(Hydrology Manual Date - August 1986)

CIVILCADD/CIVILDESIGN Engineering Software, (c) 1989-2014 Version 9.0
Rational Hydrology Study Date: 03/16/23

RATIONAL METHOD ANALYSIS FOR AREA B
EXISTSING CONDITION, 100 YEAR STORM EVENT
FN: ARB100

Program License Serial Number 6279

********* Hydrology Study Control Information **********

Rational hydrology study storm event year is 100.0
Computed rainfall intensity:
Storm year = 100.00 1 hour rainfall = 1.200 (In.)
Slope used for rainfall intensity curve b = 0.6000
Soil antecedent moisture condition (AMC) = 2

++
Process from Point/Station 201.000 to Point/Station 202.000
**** INITIAL AREA EVALUATION ****

Soil classification AP and SCS values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2) = 32.00
Pervious ratio(Ap) = 0.5000 Max loss rate(Fm)= 0.489(In/Hr)
Initial subarea data:
Initial area flow distance = 989.500(Ft.)
Top (of initial area) elevation = 806.000(Ft.)
Bottom (of initial area) elevation = 797.000(Ft.)
Difference in elevation = 9.000(Ft.)
Slope = 0.00910 s(%)= 0.91
TC = k(0.398)*[(length^3)/(elevation change)]^0.2
Initial area time of concentration = 16.072 min.
Rainfall intensity = 2.645(In/Hr) for a 100.0 year storm
Effective runoff coefficient used for area (Q=KCIA) is C = 0.734
Subarea runoff = 9.547(CFS)
Total initial stream area = 4.920(Ac.)
Pervious area fraction = 0.500
Initial area Fm value = 0.489(In/Hr)

++
Process from Point/Station 202.000 to Point/Station 203.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****

Top of street segment elevation = 797.000(Ft.)
End of street segment elevation = 796.000(Ft.)
Length of street segment = 355.500(Ft.)

```
Height of curb above gutter flowline  =    6.0(In.)
Width of half street (curb to crown)  =  20.000(Ft.)
Distance from crown to crossfall grade break  =  18.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [2] side(s) of the street
Distance from curb to property line  =  10.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     14.569(CFS)
Depth of flow =   0.529(Ft.), Average velocity =   1.741(Ft/s)
Warning: depth of flow exceeds top of curb
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =    1.43(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  20.000(Ft.)
Flow velocity =   1.74(Ft/s)
Travel time =    3.40 min.     TC =   19.48  min.
 Adding area flow to street
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 32.00
Pervious ratio(Ap) = 0.5000     Max loss rate(Fm)=     0.489(In/Hr)
Rainfall intensity =      2.357(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.713
Subarea runoff =      9.940(CFS) for    6.670(Ac.)
Total runoff =     19.487(CFS)
Effective area this stream =       11.59(Ac.)
Total Study Area (Main Stream No. 1) =       11.59(Ac.)
Area averaged Fm value =    0.489(In/Hr)
Street flow at end of street =     19.487(CFS)
Half street flow at end of street =      9.744(CFS)
Depth of flow =   0.573(Ft.), Average velocity =   1.882(Ft/s)
Warning: depth of flow exceeds top of curb
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =    3.63(Ft.)
Flow width (from curb towards crown)=  20.000(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      203.000 to Point/Station      204.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------
Top of street segment elevation =   796.000(Ft.)
End of street segment elevation =   793.000(Ft.)
Length of street segment  =   416.600(Ft.)
Height of curb above gutter flowline  =    6.0(In.)
Width of half street (curb to crown)  =  20.000(Ft.)
Distance from crown to crossfall grade break  =  18.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [2] side(s) of the street
Distance from curb to property line  =  10.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
```

```
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     27.673(CFS)
Depth of flow =   0.554(Ft.), Average velocity =   2.917(Ft/s)
Warning: depth of flow exceeds top of curb
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =    2.69(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  20.000(Ft.)
Flow velocity =   2.92(Ft/s)
Travel time =    2.38 min.     TC =   21.86  min.
 Adding area flow to street
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 32.00
Pervious ratio(Ap) = 0.5000     Max loss rate(Fm)=     0.489(In/Hr)
Rainfall intensity =      2.200(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.700
Subarea runoff =     16.262(CFS) for   11.630(Ac.)
Total runoff =     35.749(CFS)
Effective area this stream =       23.22(Ac.)
Total Study Area (Main Stream No. 1) =       23.22(Ac.)
Area averaged Fm value =    0.489(In/Hr)
Street flow at end of street =     35.749(CFS)
Half street flow at end of street =     17.875(CFS)
Depth of flow =   0.595(Ft.), Average velocity =   3.123(Ft/s)
Warning: depth of flow exceeds top of curb
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =    4.76(Ft.)
Flow width (from curb towards crown)=  20.000(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      204.000 to Point/Station      205.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------
Top of street segment elevation =   793.000(Ft.)
End of street segment elevation =   790.000(Ft.)
Length of street segment  =   286.900(Ft.)
Height of curb above gutter flowline  =    6.0(In.)
Width of half street (curb to crown)  =  20.000(Ft.)
Distance from crown to crossfall grade break  =  18.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [2] side(s) of the street
Distance from curb to property line  =  10.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     42.380(CFS)
Depth of flow =   0.592(Ft.), Average velocity =   3.748(Ft/s)
Warning: depth of flow exceeds top of curb
```

```
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =    4.62(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  20.000(Ft.)
Flow velocity =   3.75(Ft/s)
Travel time =    1.28 min.     TC =   23.13  min.
 Adding area flow to street
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 32.00
Pervious ratio(Ap) = 0.5000     Max loss rate(Fm)=     0.489(In/Hr)
Rainfall intensity =      2.126(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.693
Subarea runoff =     13.121(CFS) for    9.950(Ac.)
Total runoff =     48.871(CFS)
Effective area this stream =       33.17(Ac.)
Total Study Area (Main Stream No. 1) =       33.17(Ac.)
Area averaged Fm value =    0.489(In/Hr)
Street flow at end of street =     48.871(CFS)
Half street flow at end of street =     24.435(CFS)
Depth of flow =   0.617(Ft.), Average velocity =   3.892(Ft/s)
Warning: depth of flow exceeds top of curb
Note:  depth of flow exceeds top of street crown.
Distance that curb overflow reaches into property =    5.86(Ft.)
Flow width (from curb towards crown)=  20.000(Ft.)


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Process from Point/Station      205.000 to Point/Station      206.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
________________________________________________________________________
Top of street segment elevation =   790.000(Ft.)
End of street segment elevation =   784.000(Ft.)
Length of street segment  =   729.100(Ft.)
Height of curb above gutter flowline  =    8.0(In.)
Width of half street (curb to crown)  = 100.000(Ft.)
Distance from crown to crossfall grade break  =  98.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  20.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     55.709(CFS)
Depth of flow =   0.843(Ft.), Average velocity =   4.055(Ft/s)
Warning: depth of flow exceeds top of curb
Distance that curb overflow reaches into property =    8.82(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  35.824(Ft.)
Flow velocity =   4.05(Ft/s)
Travel time =    3.00 min.     TC =   26.13  min.
 Adding area flow to street
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
```

```
SCS curve number for soil(AMC 2)  = 32.00
Pervious ratio(Ap) = 0.1100     Max loss rate(Fm)=     0.108(In/Hr)
Rainfall intensity =      1.976(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.720
Subarea runoff =     13.605(CFS) for   10.750(Ac.)
Total runoff =     62.475(CFS)
Effective area this stream =       43.92(Ac.)
Total Study Area (Main Stream No. 1) =       43.92(Ac.)
Area averaged Fm value =    0.396(In/Hr)
Street flow at end of street =     62.475(CFS)
Half street flow at end of street =     62.475(CFS)
Depth of flow =   0.872(Ft.), Average velocity =   4.140(Ft/s)
Warning: depth of flow exceeds top of curb
Distance that curb overflow reaches into property =   10.29(Ft.)
Flow width (from curb towards crown)=  37.289(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      205.000 to Point/Station      206.000
**** SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 32.00
Pervious ratio(Ap) = 0.2000     Max loss rate(Fm)=     0.196(In/Hr)
Time of concentration =    26.13 min.
Rainfall intensity =      1.976(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.733
Subarea runoff =     11.570(CFS) for    7.220(Ac.)
Total runoff =     74.045(CFS)
Effective area this stream =       51.14(Ac.)
Total Study Area (Main Stream No. 1) =       51.14(Ac.)
Area averaged Fm value =    0.367(In/Hr)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      206.000 to Point/Station      207.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------
Top of street segment elevation =   784.000(Ft.)
End of street segment elevation =   766.000(Ft.)
Length of street segment  =  1313.900(Ft.)
Height of curb above gutter flowline  =    8.0(In.)
Width of half street (curb to crown)  = 100.000(Ft.)
Distance from crown to crossfall grade break  =  98.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  20.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =     91.380(CFS)
Depth of flow =   0.905(Ft.), Average velocity =   5.471(Ft/s)
```

```
Warning: depth of flow exceeds top of curb
Distance that curb overflow reaches into property =   11.93(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  38.928(Ft.)
Flow velocity =   5.47(Ft/s)
Travel time =    4.00 min.     TC =   30.13  min.
 Adding area flow to street
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 48.70
Pervious ratio(Ap) = 0.9800     Max loss rate(Fm)=     0.808(In/Hr)
Rainfall intensity =      1.814(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.614
Subarea runoff =     34.598(CFS) for   46.460(Ac.)
Total runoff =    108.643(CFS)
Effective area this stream =       97.60(Ac.)
Total Study Area (Main Stream No. 1) =       97.60(Ac.)
Area averaged Fm value =    0.577(In/Hr)
Street flow at end of street =    108.643(CFS)
Half street flow at end of street =    108.643(CFS)
Depth of flow =   0.952(Ft.), Average velocity =   5.663(Ft/s)
Warning: depth of flow exceeds top of curb
Distance that curb overflow reaches into property =   14.26(Ft.)
Flow width (from curb towards crown)=  41.260(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      207.000 to Point/Station      208.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
----------------------------------------------------------------------
Top of street segment elevation =   766.000(Ft.)
End of street segment elevation =   751.000(Ft.)
Length of street segment  =  1332.700(Ft.)
Height of curb above gutter flowline  =    8.0(In.)
Width of half street (curb to crown)  = 100.000(Ft.)
Distance from crown to crossfall grade break  =  98.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  20.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =    127.493(CFS)
Depth of flow =   1.025(Ft.), Average velocity =   5.419(Ft/s)
Warning: depth of flow exceeds top of curb
Distance that curb overflow reaches into property =   17.93(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  44.928(Ft.)
Flow velocity =   5.42(Ft/s)
Travel time =    4.10 min.     TC =   34.23  min.
 Adding area flow to street
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 70.70
```

```
Pervious ratio(Ap) = 0.9400     Max loss rate(Fm)=     0.490(In/Hr)
Rainfall intensity =      1.680(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.606
Subarea runoff =     37.642(CFS) for   46.100(Ac.)
Total runoff =    146.285(CFS)
Effective area this stream =      143.70(Ac.)
Total Study Area (Main Stream No. 1) =      143.70(Ac.)
Area averaged Fm value =    0.549(In/Hr)
Street flow at end of street =    146.285(CFS)
Half street flow at end of street =    146.285(CFS)
Depth of flow =   1.066(Ft.), Average velocity =   5.584(Ft/s)
Warning: depth of flow exceeds top of curb
Distance that curb overflow reaches into property =   19.99(Ft.)
Flow width (from curb towards crown)=  46.987(Ft.)


++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++++
Process from Point/Station      208.000 to Point/Station      209.000
**** STREET FLOW TRAVEL TIME + SUBAREA FLOW ADDITION ****
------------------------------------------------------------------------
Top of street segment elevation =   751.000(Ft.)
End of street segment elevation =   723.000(Ft.)
Length of street segment  =  2599.100(Ft.)
Height of curb above gutter flowline  =    8.0(In.)
Width of half street (curb to crown)  = 100.000(Ft.)
Distance from crown to crossfall grade break  =  98.000(Ft.)
Slope from gutter to grade break (v/hz) =   0.020
Slope from grade break to crown (v/hz)  =   0.020
Street flow is on [1] side(s) of the street
Distance from curb to property line  =  20.000(Ft.)
Slope from curb to property line (v/hz) =   0.020
Gutter width =   2.000(Ft.)
Gutter hike from flowline =  2.000(In.)
 Manning's N in gutter =  0.0150
 Manning's N from gutter to grade break =  0.0150
 Manning's N from grade break to crown =  0.0150
Estimated mean flow rate at midpoint of street =    179.262(CFS)
Depth of flow =   1.130(Ft.), Average velocity =   5.869(Ft/s)
Warning: depth of flow exceeds top of curb
Distance that curb overflow reaches into property =   23.16(Ft.)
Streetflow hydraulics at midpoint of street travel:
Halfstreet flow width =  50.157(Ft.)
Flow velocity =   5.87(Ft/s)
Travel time =    7.38 min.     TC =   41.61  min.
 Adding area flow to street
Soil classification AP and SCS  values input by user
USER INPUT of soil data for subarea
SCS curve number for soil(AMC 2)  = 75.60
Pervious ratio(Ap) = 0.9500     Max loss rate(Fm)=     0.421(In/Hr)
Rainfall intensity =      1.495(In/Hr) for a   100.0 year storm
Effective runoff coefficient used for area,(total area with modified
rational method)(Q=KCIA) is C = 0.600
Subarea runoff =     65.883(CFS) for   93.050(Ac.)
Total runoff =    212.168(CFS)
Effective area this stream =      236.75(Ac.)
Total Study Area (Main Stream No. 1) =      236.75(Ac.)
Area averaged Fm value =    0.499(In/Hr)
Street flow at end of street =    212.168(CFS)
```

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Half street flow at end of street =    212.168(CFS)
Depth of flow =   1.182(Ft.), Average velocity =   6.187(Ft/s)
Warning: depth of flow exceeds top of curb
Distance that curb overflow reaches into property =   25.78(Ft.)
Flow width (from curb towards crown)=  52.777(Ft.)
End of computations, Total Study Area =          236.75 (Ac.)
The following figures may
be used for a unit hydrograph study of the same area.
Note: These figures do not consider reduced effective area
effects caused by confluences in the rational equation.

Area averaged pervious area fraction(Ap) = 0.830
Area averaged SCS curve number =  59.9
```

APPENDIX E: PIPE SIZING CALCULATIONS

APPENDIX E.1: PIPE SIZING CALCULATIONS FOR LINE A SYSTEM

Worksheet for LINE A1 - R1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	4.00	ft
Discharge	89.30	ft^3/s

Results

Normal Depth	2.91	ft
Flow Area	9.79	ft^2
Wetted Perimeter	8.17	ft
Hydraulic Radius	1.20	ft
Top Width	3.56	ft
Critical Depth	2.87	ft
Percent Full	72.8	%
Critical Slope	0.00520	ft/ft
Velocity	9.12	ft/s
Velocity Head	1.29	ft
Specific Energy	4.20	ft
Froude Number	0.97	
Maximum Discharge	109.25	ft^3/s
Discharge Full	101.57	ft^3/s
Slope Full	0.00387	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	72.75	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE A1 - R1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	2.91	ft
Critical Depth	2.87	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00520	ft/ft

Worksheet for LINE A1 - R2

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	4.00	ft
Discharge	82.50	ft^3/s

Results

Normal Depth	2.74	ft
Flow Area	9.16	ft^2
Wetted Perimeter	7.79	ft
Hydraulic Radius	1.18	ft
Top Width	3.72	ft
Critical Depth	2.75	ft
Percent Full	68.4	%
Critical Slope	0.00492	ft/ft
Velocity	9.00	ft/s
Velocity Head	1.26	ft
Specific Energy	4.00	ft
Froude Number	1.01	
Maximum Discharge	109.25	ft^3/s
Discharge Full	101.57	ft^3/s
Slope Full	0.00330	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	68.42	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE A1 - R2

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	2.74	ft
Critical Depth	2.75	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00492	ft/ft

Worksheet for LINE A1 - R3

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	3.00	ft
Discharge	32.50	ft^3/s

Results

Normal Depth	1.83	ft
Flow Area	4.52	ft^2
Wetted Perimeter	5.38	ft
Hydraulic Radius	0.84	ft
Top Width	2.93	ft
Critical Depth	1.85	ft
Percent Full	61.0	%
Critical Slope	0.00484	ft/ft
Velocity	7.19	ft/s
Velocity Head	0.80	ft
Specific Energy	2.63	ft
Froude Number	1.02	
Maximum Discharge	50.73	ft^3/s
Discharge Full	47.16	ft^3/s
Slope Full	0.00237	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	61.01	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE A1 - R3

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.83	ft
Critical Depth	1.85	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00484	ft/ft

Worksheet for LINE A2

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	16.20	ft^3/s

Results

Normal Depth	1.34	ft
Flow Area	2.67	ft^2
Wetted Perimeter	4.10	ft
Hydraulic Radius	0.65	ft
Top Width	2.49	ft
Critical Depth	1.36	ft
Percent Full	53.4	%
Critical Slope	0.00471	ft/ft
Velocity	6.07	ft/s
Velocity Head	0.57	ft
Specific Energy	1.91	ft
Froude Number	1.04	
Maximum Discharge	31.20	ft^3/s
Discharge Full	29.00	ft^3/s
Slope Full	0.00156	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	53.42	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE A2

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.34	ft
Critical Depth	1.36	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00471	ft/ft

Worksheet for LINE A3

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	19.70	ft^3/s

Results

Normal Depth	1.51	ft
Flow Area	3.10	ft^2
Wetted Perimeter	4.45	ft
Hydraulic Radius	0.70	ft
Top Width	2.44	ft
Critical Depth	1.51	ft
Percent Full	60.4	%
Critical Slope	0.00505	ft/ft
Velocity	6.35	ft/s
Velocity Head	0.63	ft
Specific Energy	2.14	ft
Froude Number	0.99	
Maximum Discharge	31.20	ft^3/s
Discharge Full	29.00	ft^3/s
Slope Full	0.00231	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	60.44	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE A3

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.51	ft
Critical Depth	1.51	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00505	ft/ft

Worksheet for LINE A4 - R1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	23.50	ft³/s

Results

Normal Depth	1.71	ft
Flow Area	3.57	ft²
Wetted Perimeter	4.86	ft
Hydraulic Radius	0.73	ft
Top Width	2.33	ft
Critical Depth	1.65	ft
Percent Full	68.3	%
Critical Slope	0.00549	ft/ft
Velocity	6.58	ft/s
Velocity Head	0.67	ft
Specific Energy	2.38	ft
Froude Number	0.94	
Maximum Discharge	31.20	ft³/s
Discharge Full	29.00	ft³/s
Slope Full	0.00328	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	68.30	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE A4 - R1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.71	ft
Critical Depth	1.65	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00549	ft/ft

Worksheet for LINE A4 - R2

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.00	ft
Discharge	9.00	ft³/s

Results

Normal Depth	1.07	ft
Flow Area	1.72	ft²
Wetted Perimeter	3.29	ft
Hydraulic Radius	0.52	ft
Top Width	1.99	ft
Critical Depth	1.07	ft
Percent Full	53.7	%
Critical Slope	0.00504	ft/ft
Velocity	5.24	ft/s
Velocity Head	0.43	ft
Specific Energy	1.50	ft
Froude Number	1.00	
Maximum Discharge	17.21	ft³/s
Discharge Full	16.00	ft³/s
Slope Full	0.00158	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	53.66	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE A4 - R2

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.07	ft
Critical Depth	1.07	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00504	ft/ft

Worksheet for LINE A5 - R1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	19.70	ft³/s

Results

Normal Depth	1.51	ft
Flow Area	3.10	ft²
Wetted Perimeter	4.45	ft
Hydraulic Radius	0.70	ft
Top Width	2.44	ft
Critical Depth	1.51	ft
Percent Full	60.4	%
Critical Slope	0.00505	ft/ft
Velocity	6.35	ft/s
Velocity Head	0.63	ft
Specific Energy	2.14	ft
Froude Number	0.99	
Maximum Discharge	31.20	ft³/s
Discharge Full	29.00	ft³/s
Slope Full	0.00231	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	60.44	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE A5 - R1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.51	ft
Critical Depth	1.51	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00505	ft/ft

Worksheet for LINE A5 - R2

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.00	ft
Discharge	12.80	ft³/s

Results

Normal Depth	1.35	ft
Flow Area	2.26	ft²
Wetted Perimeter	3.86	ft
Hydraulic Radius	0.59	ft
Top Width	1.87	ft
Critical Depth	1.29	ft
Percent Full	67.7	%
Critical Slope	0.00576	ft/ft
Velocity	5.66	ft/s
Velocity Head	0.50	ft
Specific Energy	1.85	ft
Froude Number	0.91	
Maximum Discharge	17.21	ft³/s
Discharge Full	16.00	ft³/s
Slope Full	0.00320	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	67.67	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE A5 - R2

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.35	ft
Critical Depth	1.29	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00576	ft/ft

Worksheet for LAT A4-1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	15.40	ft³/s

Results

Normal Depth	1.30	ft
Flow Area	2.57	ft²
Wetted Perimeter	4.02	ft
Hydraulic Radius	0.64	ft
Top Width	2.50	ft
Critical Depth	1.32	ft
Percent Full	51.8	%
Critical Slope	0.00465	ft/ft
Velocity	6.00	ft/s
Velocity Head	0.56	ft
Specific Energy	1.85	ft
Froude Number	1.04	
Maximum Discharge	31.20	ft³/s
Discharge Full	29.00	ft³/s
Slope Full	0.00141	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	51.82	%
Downstream Velocity	Infinity	ft/s

Worksheet for LAT A4-1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.30	ft
Critical Depth	1.32	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00465	ft/ft

Worksheet for LAT A5-1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	20.70	ft^3/s

Results

Normal Depth	1.56	ft
Flow Area	3.22	ft^2
Wetted Perimeter	4.56	ft
Hydraulic Radius	0.71	ft
Top Width	2.42	ft
Critical Depth	1.55	ft
Percent Full	62.5	%
Critical Slope	0.00516	ft/ft
Velocity	6.42	ft/s
Velocity Head	0.64	ft
Specific Energy	2.20	ft
Froude Number	0.98	
Maximum Discharge	31.20	ft^3/s
Discharge Full	29.00	ft^3/s
Slope Full	0.00255	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	62.45	%
Downstream Velocity	Infinity	ft/s

Worksheet for LAT A5-1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.56	ft
Critical Depth	1.55	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00516	ft/ft

APPENDIX E.2 PIPE SIZING CALCULATIONS FOR LINE B SYSTEM

Worksheet for LINE B1 - R1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	3.50	ft
Discharge	52.80	ft^3/s

Results

Normal Depth	2.25	ft
Flow Area	6.52	ft^2
Wetted Perimeter	6.50	ft
Hydraulic Radius	1.00	ft
Top Width	3.36	ft
Critical Depth	2.27	ft
Percent Full	64.1	%
Critical Slope	0.00482	ft/ft
Velocity	8.10	ft/s
Velocity Head	1.02	ft
Specific Energy	3.26	ft
Froude Number	1.02	
Maximum Discharge	76.52	ft^3/s
Discharge Full	71.14	ft^3/s
Slope Full	0.00275	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	64.15	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE B1 - R1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	2.25	ft
Critical Depth	2.27	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00482	ft/ft

Worksheet for LINE B1 - R2

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	3.00	ft
Discharge	27.50	ft^3/s

Results

Normal Depth	1.65	ft
Flow Area	3.97	ft^2
Wetted Perimeter	5.00	ft
Hydraulic Radius	0.79	ft
Top Width	2.99	ft
Critical Depth	1.70	ft
Percent Full	54.8	%
Critical Slope	0.00454	ft/ft
Velocity	6.93	ft/s
Velocity Head	0.75	ft
Specific Energy	2.39	ft
Froude Number	1.06	
Maximum Discharge	50.73	ft^3/s
Discharge Full	47.16	ft^3/s
Slope Full	0.00170	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	54.85	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE B1 - R2

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.65	ft
Critical Depth	1.70	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00454	ft/ft

Worksheet for LINE B2 - R1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	20.40	ft^3/s

Results

Normal Depth	1.55	ft
Flow Area	3.19	ft^2
Wetted Perimeter	4.52	ft
Hydraulic Radius	0.70	ft
Top Width	2.43	ft
Critical Depth	1.53	ft
Percent Full	61.8	%
Critical Slope	0.00512	ft/ft
Velocity	6.40	ft/s
Velocity Head	0.64	ft
Specific Energy	2.18	ft
Froude Number	0.98	
Maximum Discharge	31.20	ft^3/s
Discharge Full	29.00	ft^3/s
Slope Full	0.00247	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	61.84	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE B2 - R1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.55	ft
Critical Depth	1.53	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00512	ft/ft

Worksheet for LINE B2 - R2

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	15.30	ft^3/s

Results

Normal Depth	1.29	ft
Flow Area	2.56	ft^2
Wetted Perimeter	4.01	ft
Hydraulic Radius	0.64	ft
Top Width	2.50	ft
Critical Depth	1.32	ft
Percent Full	51.6	%
Critical Slope	0.00464	ft/ft
Velocity	5.99	ft/s
Velocity Head	0.56	ft
Specific Energy	1.85	ft
Froude Number	1.04	
Maximum Discharge	31.20	ft^3/s
Discharge Full	29.00	ft^3/s
Slope Full	0.00139	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	51.62	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE B2 - R2

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.29	ft
Critical Depth	1.32	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00464	ft/ft

Worksheet for LAT B1-1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	17.10	ft³/s

Results

Normal Depth	1.38	ft
Flow Area	2.78	ft²
Wetted Perimeter	4.19	ft
Hydraulic Radius	0.66	ft
Top Width	2.49	ft
Critical Depth	1.40	ft
Percent Full	55.2	%
Critical Slope	0.00479	ft/ft
Velocity	6.15	ft/s
Velocity Head	0.59	ft
Specific Energy	1.97	ft
Froude Number	1.03	
Maximum Discharge	31.20	ft³/s
Discharge Full	29.00	ft³/s
Slope Full	0.00174	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	55.22	%
Downstream Velocity	Infinity	ft/s

Worksheet for LAT B1-1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.38	ft
Critical Depth	1.40	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00479	ft/ft

Worksheet for LAT B1-2

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.00	ft
Discharge	12.00	ft³/s

Results

Normal Depth	1.29	ft
Flow Area	2.15	ft²
Wetted Perimeter	3.73	ft
Hydraulic Radius	0.57	ft
Top Width	1.91	ft
Critical Depth	1.24	ft
Percent Full	64.6	%
Critical Slope	0.00559	ft/ft
Velocity	5.59	ft/s
Velocity Head	0.49	ft
Specific Energy	1.78	ft
Froude Number	0.93	
Maximum Discharge	17.21	ft³/s
Discharge Full	16.00	ft³/s
Slope Full	0.00281	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	64.62	%
Downstream Velocity	Infinity	ft/s

Worksheet for LAT B1-2

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.29	ft
Critical Depth	1.24	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00559	ft/ft

Worksheet for LAT B2-1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.00	ft
Discharge	7.00	ft^3/s

Results

Normal Depth	0.93	ft
Flow Area	1.42	ft^2
Wetted Perimeter	2.99	ft
Hydraulic Radius	0.48	ft
Top Width	1.99	ft
Critical Depth	0.94	ft
Percent Full	46.3	%
Critical Slope	0.00476	ft/ft
Velocity	4.92	ft/s
Velocity Head	0.38	ft
Specific Energy	1.30	ft
Froude Number	1.03	
Maximum Discharge	17.21	ft^3/s
Discharge Full	16.00	ft^3/s
Slope Full	0.00096	ft/ft
Flow Type	SuperCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	46.27	%
Downstream Velocity	Infinity	ft/s

Worksheet for LAT B2-1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	0.93	ft
Critical Depth	0.94	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00476	ft/ft

APPENDIX E.3 PIPE SIZING CALCULATIONS FOR LINE C SYSTEM

Worksheet for LINE C1

Project Description

Friction Method	Manning Formula
Solve For	Normal Depth

Input Data

Roughness Coefficient	0.013	
Channel Slope	0.00500	ft/ft
Diameter	2.50	ft
Discharge	25.90	ft^3/s

Results

Normal Depth	1.84	ft
Flow Area	3.88	ft^2
Wetted Perimeter	5.16	ft
Hydraulic Radius	0.75	ft
Top Width	2.20	ft
Critical Depth	1.73	ft
Percent Full	73.7	%
Critical Slope	0.00582	ft/ft
Velocity	6.68	ft/s
Velocity Head	0.69	ft
Specific Energy	2.54	ft
Froude Number	0.89	
Maximum Discharge	31.20	ft^3/s
Discharge Full	29.00	ft^3/s
Slope Full	0.00399	ft/ft
Flow Type	SubCritical	

GVF Input Data

Downstream Depth	0.00	ft
Length	0.00	ft
Number Of Steps	0	

GVF Output Data

Upstream Depth	0.00	ft
Profile Description		
Profile Headloss	0.00	ft
Average End Depth Over Rise	0.00	%
Normal Depth Over Rise	73.69	%
Downstream Velocity	Infinity	ft/s

Worksheet for LINE C1

GVF Output Data

Upstream Velocity	Infinity	ft/s
Normal Depth	1.84	ft
Critical Depth	1.73	ft
Channel Slope	0.00500	ft/ft
Critical Slope	0.00582	ft/ft

APPENDIX F: SUBSURFACE STORAGE SIZING CALCULATIONS

APPENDIX F.1: WATER QUALITY VOLUME CALCULATIONS

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A1 (DMA A1)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
200811.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 20,247

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A2 (DMA A2)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
283575.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 28,592

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A3 (DMA A3)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
208216.8		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 20,994

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A4 (DMA A4)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
341074.8		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 34,389

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A5 (DMA A5)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
118047.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 11,902

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A6 (DMA A6)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
227383.2		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 22,926

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A7 (DMA A7)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
98010		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 9,882

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B1 (DMA B1)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
185565.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 18,710

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B2 (DMA B2)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
70131.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 7,071

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B3 (DMA B3)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
230868		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 23,277

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B4 (DMA B4)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
137649.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 13,879

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B5 (DMA B5)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
81021.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 8,169

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA C1 (DMA C1)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
216928.8		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 21,872

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA C2 (DMA C2)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
151153.2		*$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$*

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 15,240

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

APPENDIX F.2 STORAGE VOLUME REQUIRED CALCULATIONS

265.24 EUCLID MIXED USE SPECIFIC PLAN

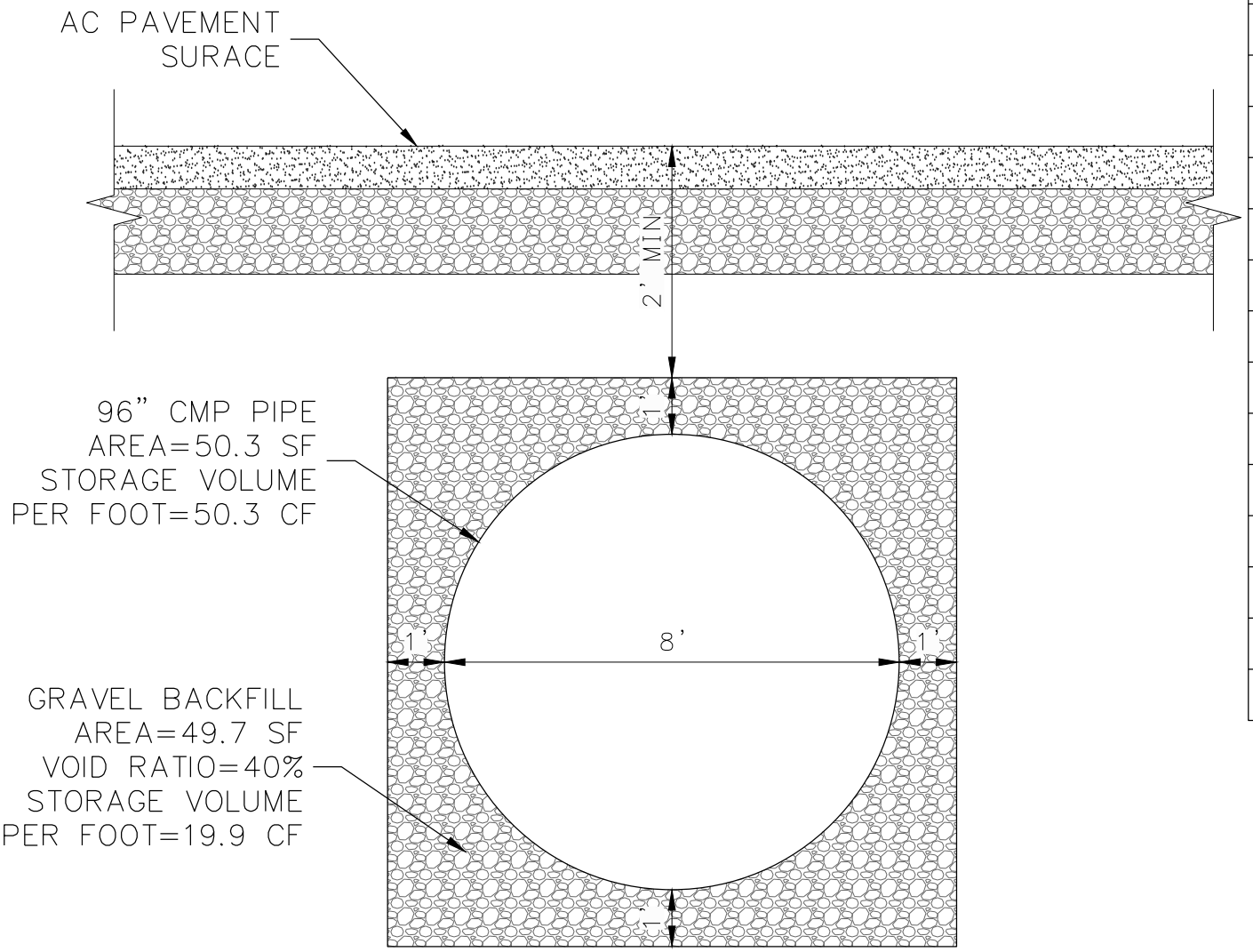
Subsurface Basin Sizing Volume Calculations

Area	Post-Project Peak Flow Rate (cfs)	Pre-Project Peak Flow Rate (cfs)	80% of Pre-Project Flow Rate (cfs)	Runoff Mitigation Volume (acres)	Runoff Mitigation Volume (cf)	Water Quality Volume (cf)	Total Volume (cf)
A1	12.93	5.32	4.26	0.296	12894	20247	33141
A2	19.41	8.69	6.95	0.415	18077	28592	46669
A3	16.12	6.96	5.57	0.281	12240	20994	33234
A4	20.73	8.14	6.51	0.583	25395	34389	59784
A5	8.54	3.80	3.04	0.172	7492	11902	19394
A6	14.62	6.34	5.07	0.334	14549	22926	37475
A7	7.59	3.28	2.62	0.132	5750	9882	15632
B1	14.63	6.26	5.01	0.250	10890	18710	29600
B2	6.18	2.96	2.37	0.093	4051	7071	11122
B3	16.13	7.20	5.76	0.337	14680	23277	37957
B4	11.38	4.97	3.98	0.185	8059	13879	21938
B5	7.14	3.45	2.76	0.107	4661	8169	12830
C1	16.40	7.17	5.74	0.293	12763	21872	34635
C2	9.78	4.15	3.32	0.222	9670	15240	24910

APPENDIX F.3 TYPICAL 96" SUBSURFACE SYSTEM CROSS-SECTION

TYPICAL 96" SUBSURFACE STORAGE CROSS SECTION AND STORAGE VOLUME PER FOOT

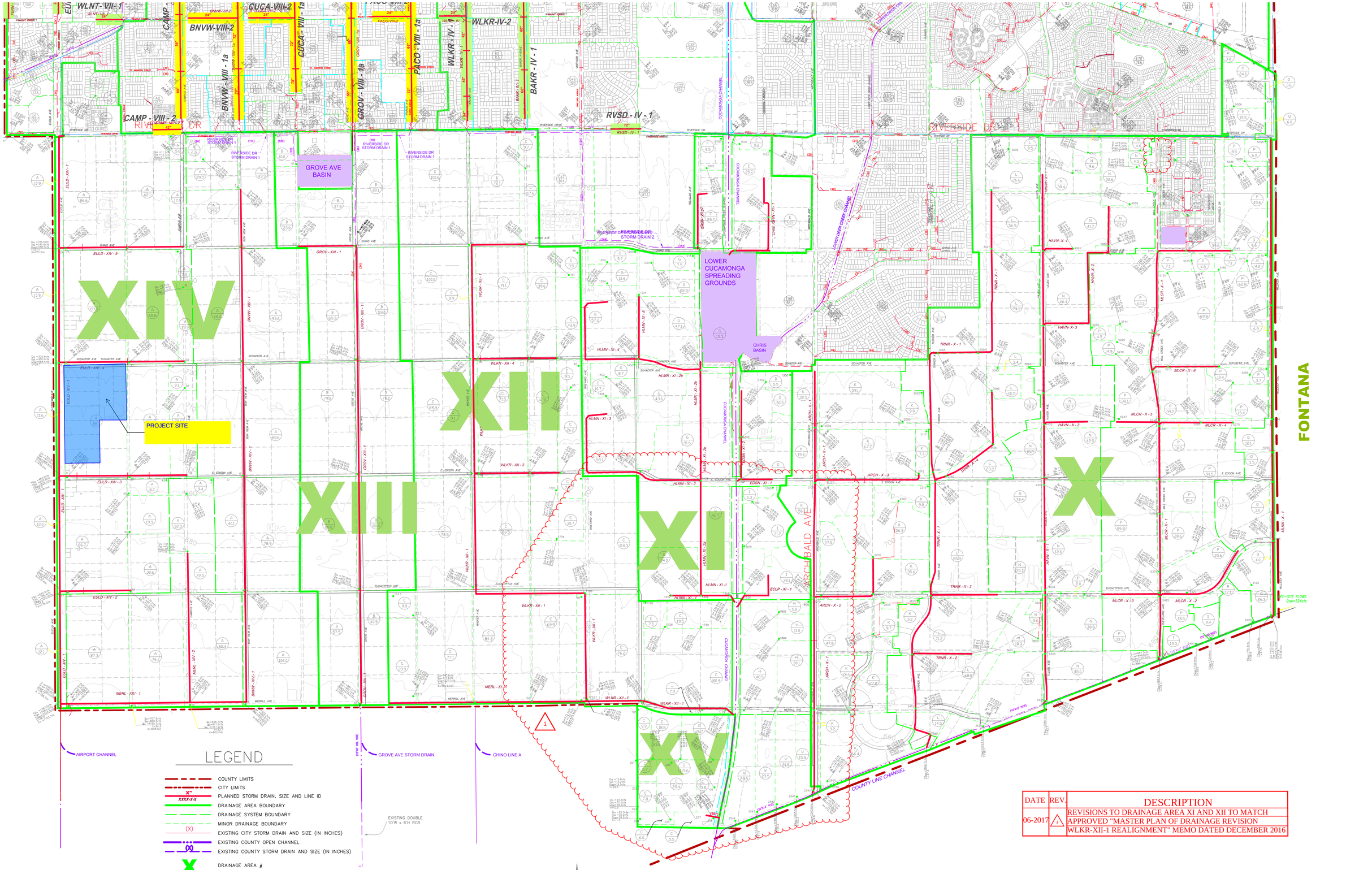
96" CMP SUBSURFACE STORAGE VOLUME CALCULATION
SUBSURFACE STORAGE PER FOOT=70.2 CF



AREA	REQUIRED VOLUME (CF)	MINIMUM SYSTEM LENGTH (FT)
A1	33,200	480
A2	46,700	670
A3	33,300	480
A4	59,800	860
A5	19,400	280
A6	37,500	540
A7	15,700	230
B1	29,700	430
B2	11,200	170
B3	38,000	550
B4	22,000	320
B5	12,900	190
C1	34,700	500
C2	25,000	360

EXCERPTS

EXCERPT A: CITY OF ONTARIO MASTER DRAINAGE PLAN HYDROLOGY MAP



LEGEND

- COUNTY LIMITS
- CITY LIMITS
- X" / XXXX-X-X — PLANNED STORM DRAIN, SIZE AND LINE ID
- DRAINAGE AREA BOUNDARY
- DRAINAGE SYSTEM BOUNDARY
- MINOR DRAINAGE BOUNDARY
- (X) — EXISTING CITY STORM DRAIN AND SIZE (IN INCHES)
- EXISTING COUNTY OPEN CHANNEL
- Ø — EXISTING COUNTY STORM DRAIN AND SIZE (IN INCHES)
- X — DRAINAGE AREA #
- DRAINAGE SYSTEM NAME / WLKR - XII - 3 — SYSTEM IDENTIFICATION
  - DRAINAGE AREA NUMBER
  - LINE NUMBER
- X / XX.X — AREA DESIGNATION, AREA ACREAGE (IN ACRES)
- Q_{10} =861.0cfs, Q_{25} =981.1cfs, Q_{100}=1213.7cfs — PEAK FLOW RATE
- t=36.1, A=942.7ac — TIME OF CONCENTRATION, AREA

SCALE: 1" = 800'

800 400 0 800 2400
GRAPHIC SCALE 1"=800'

DATE	REV.	DESCRIPTION
06-2017	1	REVISIONS TO DRAINAGE AREA XI AND XII TO MATCH APPROVED "MASTER PLAN OF DRAINAGE REVISION WLKR-XII-1 REALIGNMENT" MEMO DATED DECEMBER 2016

MARCH 2012

REVISIONS
5-20-2017: REVISED TO MERGE DRAINAGE AREA XII AND XIII.

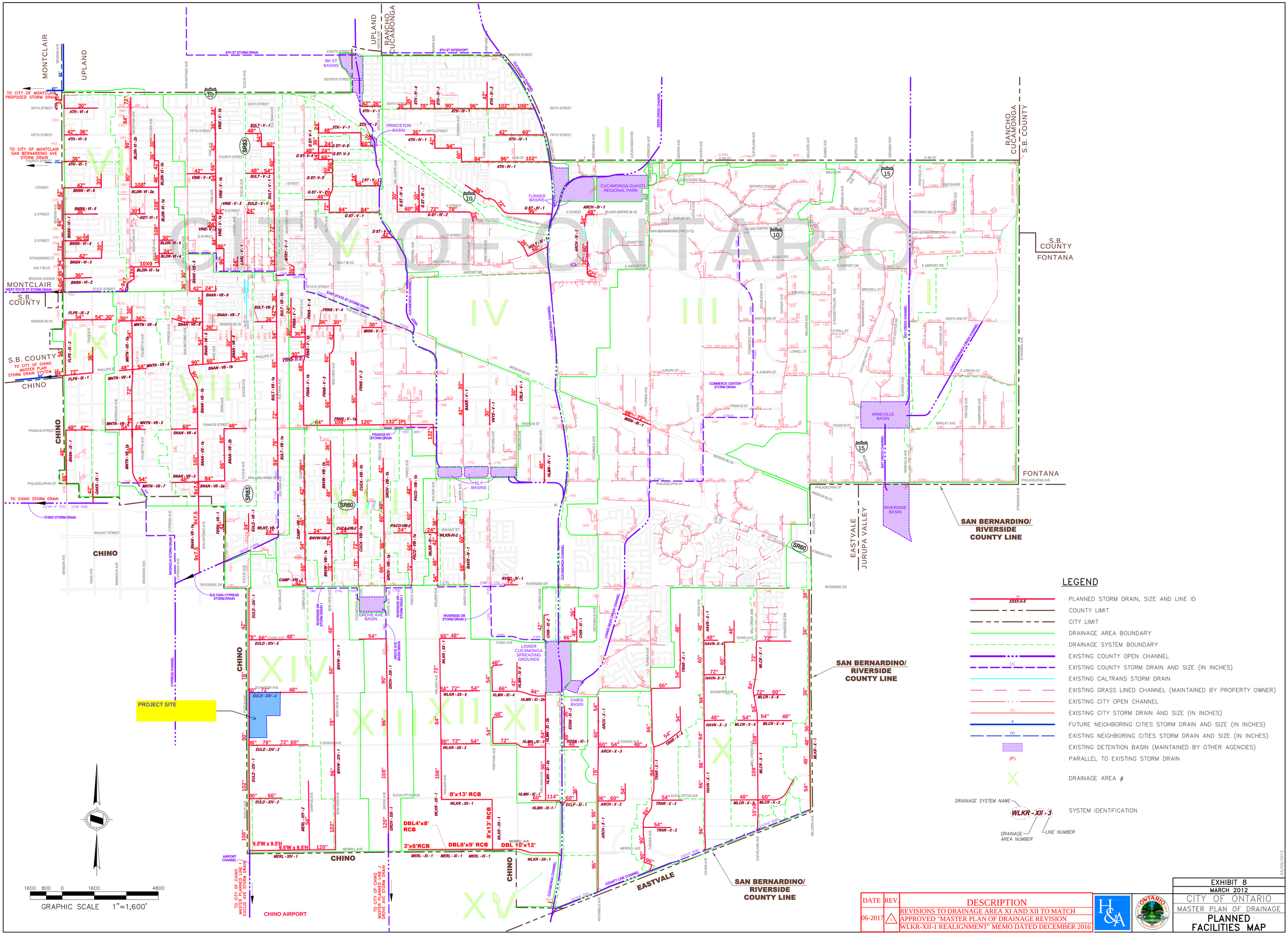
CITY OF ONTARIO
MASTER PLAN OF DRAINAGE
HYDROLOGY MAP
NEW MODEL COLONY

HUNSAKER & ASSOCIATES IRVINE, INC
PLANNING ■ ENGINEERING ■ SURVEYING
Three Hughes Irvine, CA 92618 PH: (949) 583-1010 FX: (949) 583-0759

SHEET 3 OF 3

PLOTTED 12/12/2017 1:53 PM \\TUSFS1\HFIProject\140152\Eng\140152-0000\Hm\Hydrology Report\MPD Update\Civil 3D Files\New Model Hydrology Map Update.dwg

EXCERPT B: CITY OF ONTARIO MASTER DRAINAGE PLAN PLANED FACILITIES MAP



LEGEND

- PLANNED STORM DRAIN, SIZE AND LINE ID (XXXX-X-X)
- COUNTY LIMIT
- CITY LIMIT
- DRAINAGE AREA BOUNDARY
- DRAINAGE SYSTEM BOUNDARY
- EXISTING COUNTY OPEN CHANNEL
- EXISTING COUNTY STORM DRAIN AND SIZE (IN INCHES) (X)
- EXISTING CALTRANS STORM DRAIN
- EXISTING GRASS LINED CHANNEL (MAINTAINED BY PROPERTY OWNER)
- EXISTING CITY OPEN CHANNEL
- EXISTING CITY STORM DRAIN AND SIZE (IN INCHES) (X)
- FUTURE NEIGHBORING CITIES STORM DRAIN AND SIZE (IN INCHES) X
- EXISTING NEIGHBORING CITIES STORM DRAIN AND SIZE (IN INCHES) (XX)
- EXISTING DETENTION BASIN (MAINTAINED BY OTHER AGENCIES)
- (P) PARALLEL TO EXISTING STORM DRAIN
- X DRAINAGE AREA #
- DRAINAGE SYSTEM NAME — WLKR - XII - 3 — SYSTEM IDENTIFICATION (DRAINAGE AREA NUMBER / LINE NUMBER)

DATE	REV.	DESCRIPTION
06-2017	1	REVISIONS TO DRAINAGE AREA XI AND XII TO MATCH APPROVED "MASTER PLAN OF DRAINAGE REVISION WLKR-XII-1 REALIGNMENT" MEMO DATED DECEMBER 2016

EXHIBIT 8
MARCH 2012
CITY OF ONTARIO
MASTER PLAN OF DRAINAGE
PLANNED FACILITIES MAP

03/09/2017

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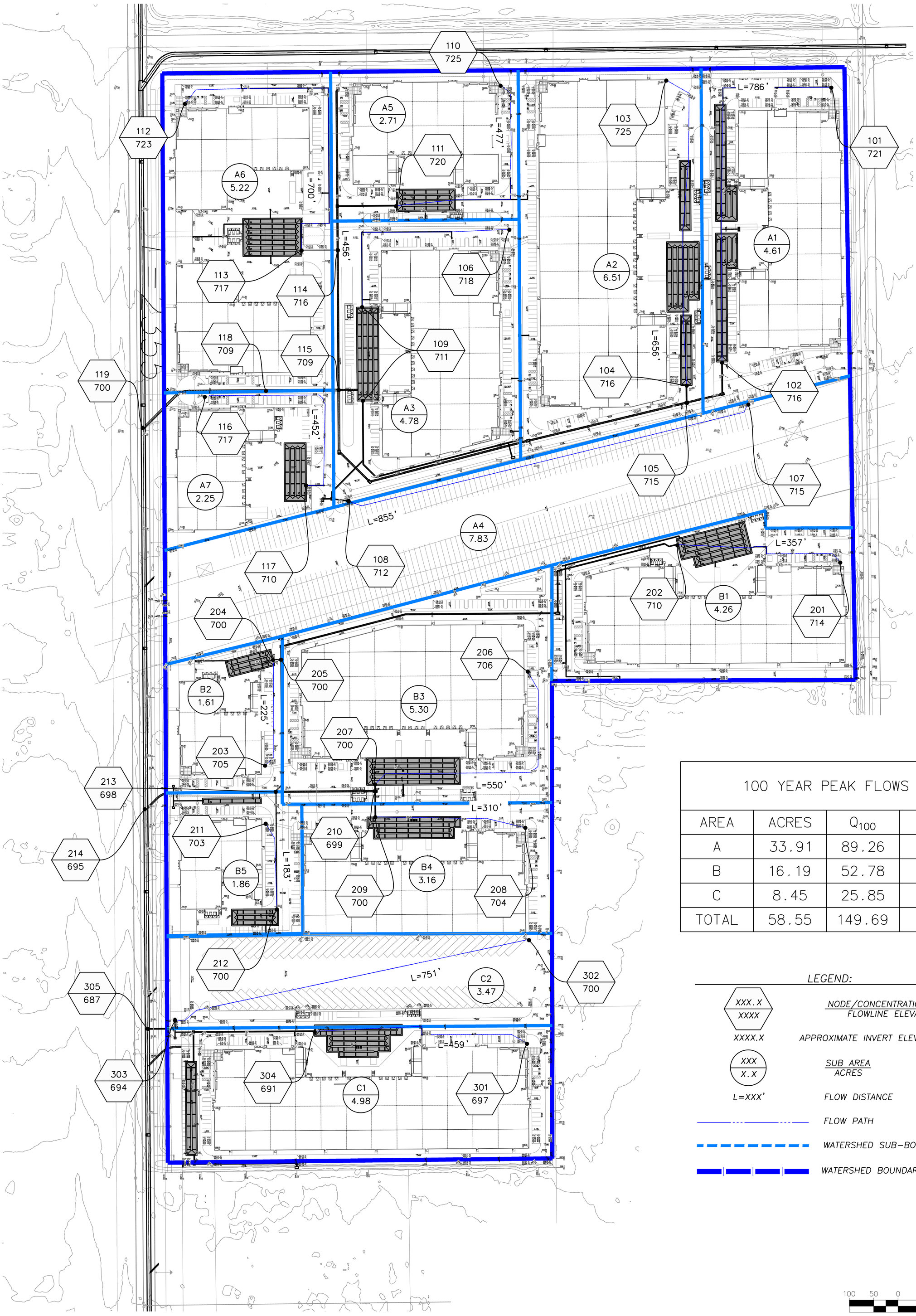
EXHIBITS

EXHIBIT A: ONSITE HYDROLOGY MAP

EUCLID MIXED USE SPECIFIC PLAN

IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

ONSITE HYDROLOGY MAP



100 YEAR PEAK FLOWS			
AREA	ACRES	Q_{100}	T_C
A	33.91	89.26	12.89
B	16.19	52.78	8.24
C	8.45	25.85	9.02
TOTAL	58.55	149.69	13.36

LEGEND:

- XXX.X / XXXX — NODE/CONCENTRATION POINT / FLOWLINE ELEVATION
- XXXX.X — APPROXIMATE INVERT ELEVATION
- XXX / X.X — SUB AREA / ACRES
- L=XXX' — FLOW DISTANCE
- FLOW PATH
- WATERSHED SUB-BOUNDARY
- WATERSHED BOUNDARY

SCALE 1"=100'

100 50 0 100 200 300

SCALE: 1"=100'

EXHIBIT "A"

EUCLID MIXED USE SPECIFIC PLAN

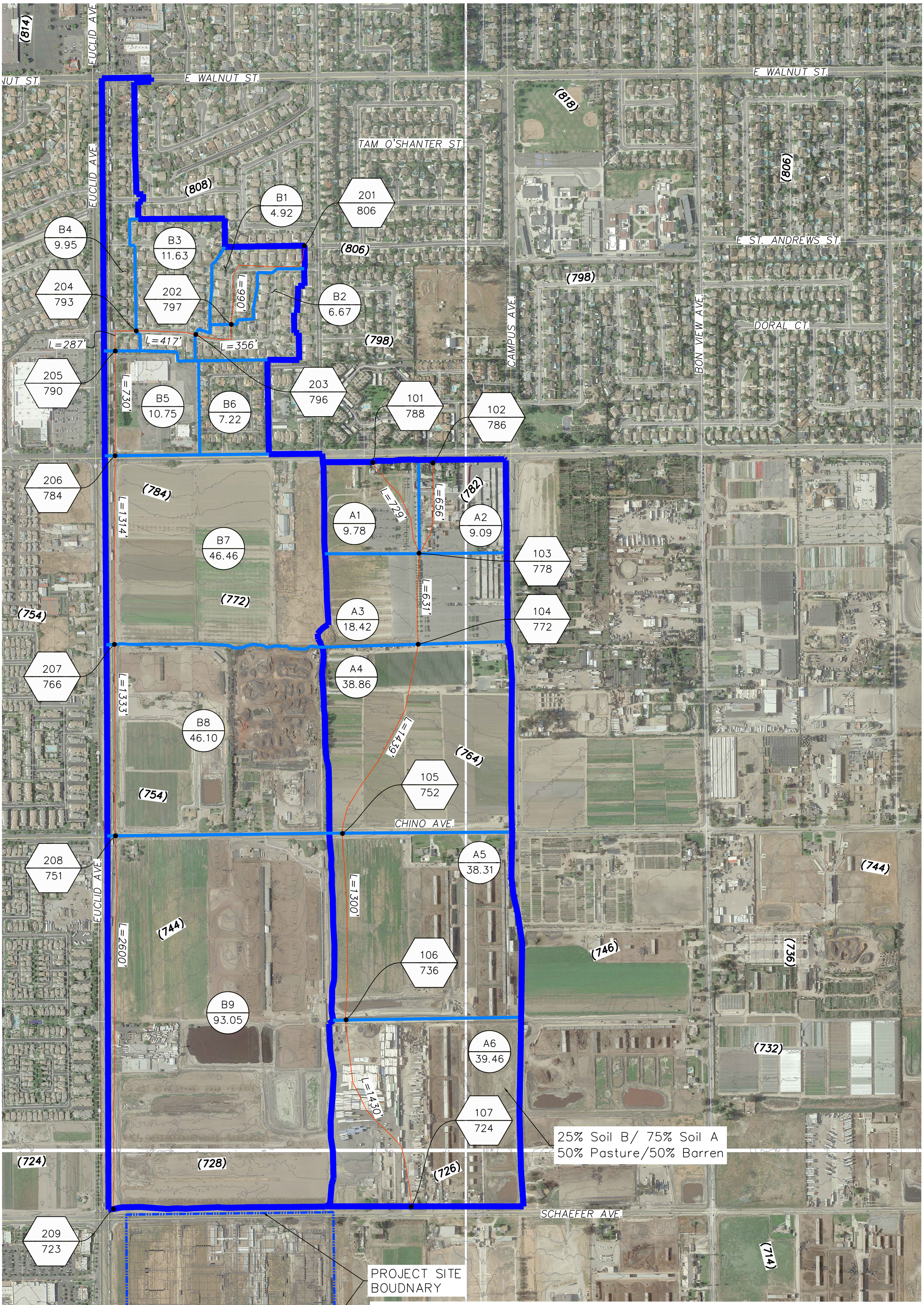
ONSITE HYDROLOGY MAP

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits\Exhibit A - Onsite Hydrology Map.dwg
Last Opened: Mar 15, 2023 - 1:08pm by mhunt

EXHIBIT B: OFFSITE HYDROLOGY MAP



Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits\EXHIBIT B_OFFSITE HYDROLOGY.dwg
Last Opened: Mar 16, 2023 - 1:36pm by stanner

EXHIBIT "B"

EUCLID MIXED USE SPECIFIC PLAN
OFFSITE HYDROLOGY ASSESSMENT

EXISTING CONDITION OFFSITE HYDROLOGY MAP

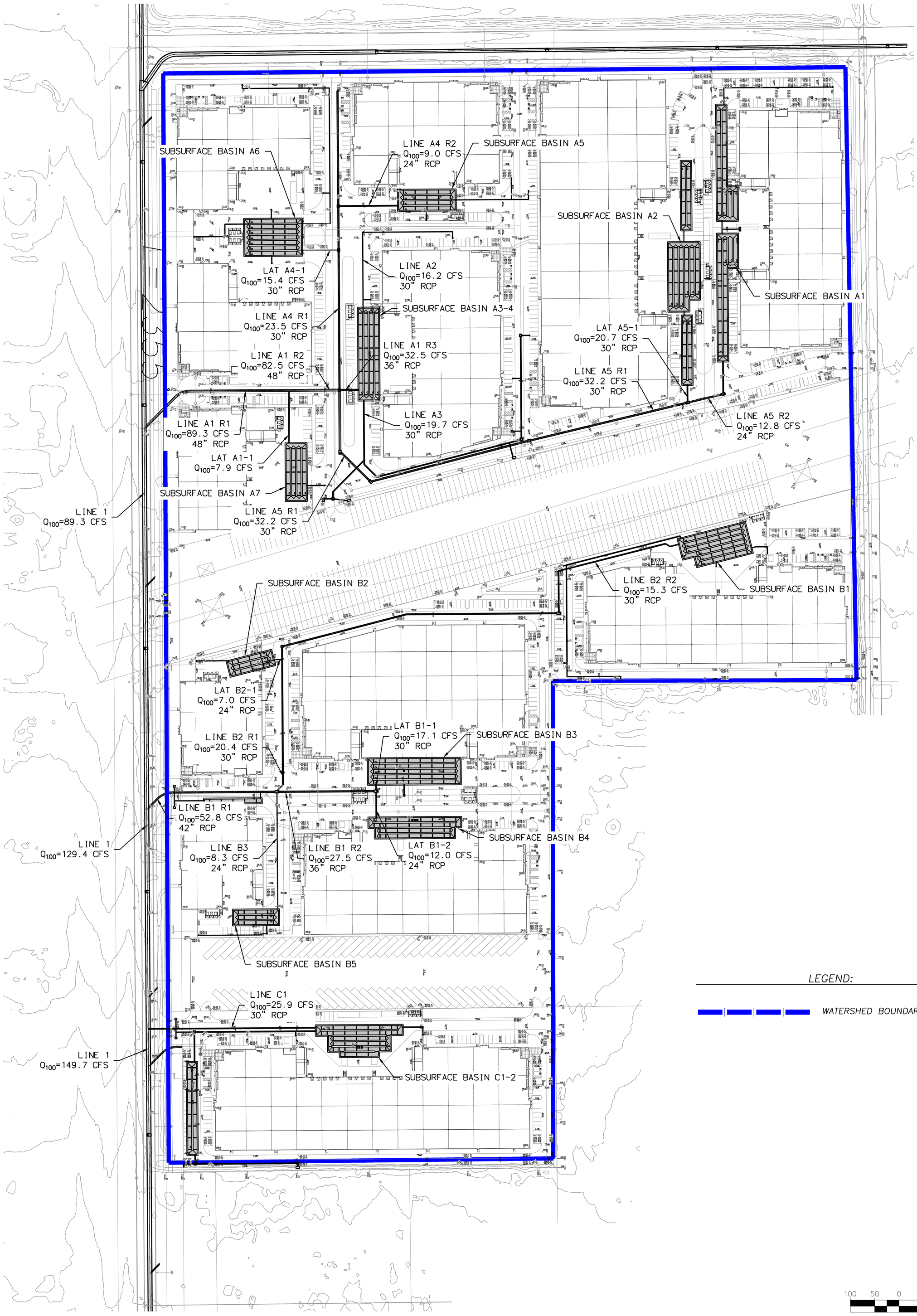
JLC Engineering & Consulting, Inc.
41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

EXHIBIT C: ONSITE DRAINAGE FACILITIES MAP

EUCLID MIXED USE SPECIFIC PLAN

IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

DRAINAGE FACILITIES MAP



LEGEND:

WATERSHED BOUNDARY

SCALE 1"=100'

100 50 0 100 200 300

SCALE: 1"=100'

EXHIBIT C

EUCLID MIXED USE SPECIFIC PLAN

DRAINAGE FACILITIES MAP

JLC Engineering & Consulting, Inc.

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MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

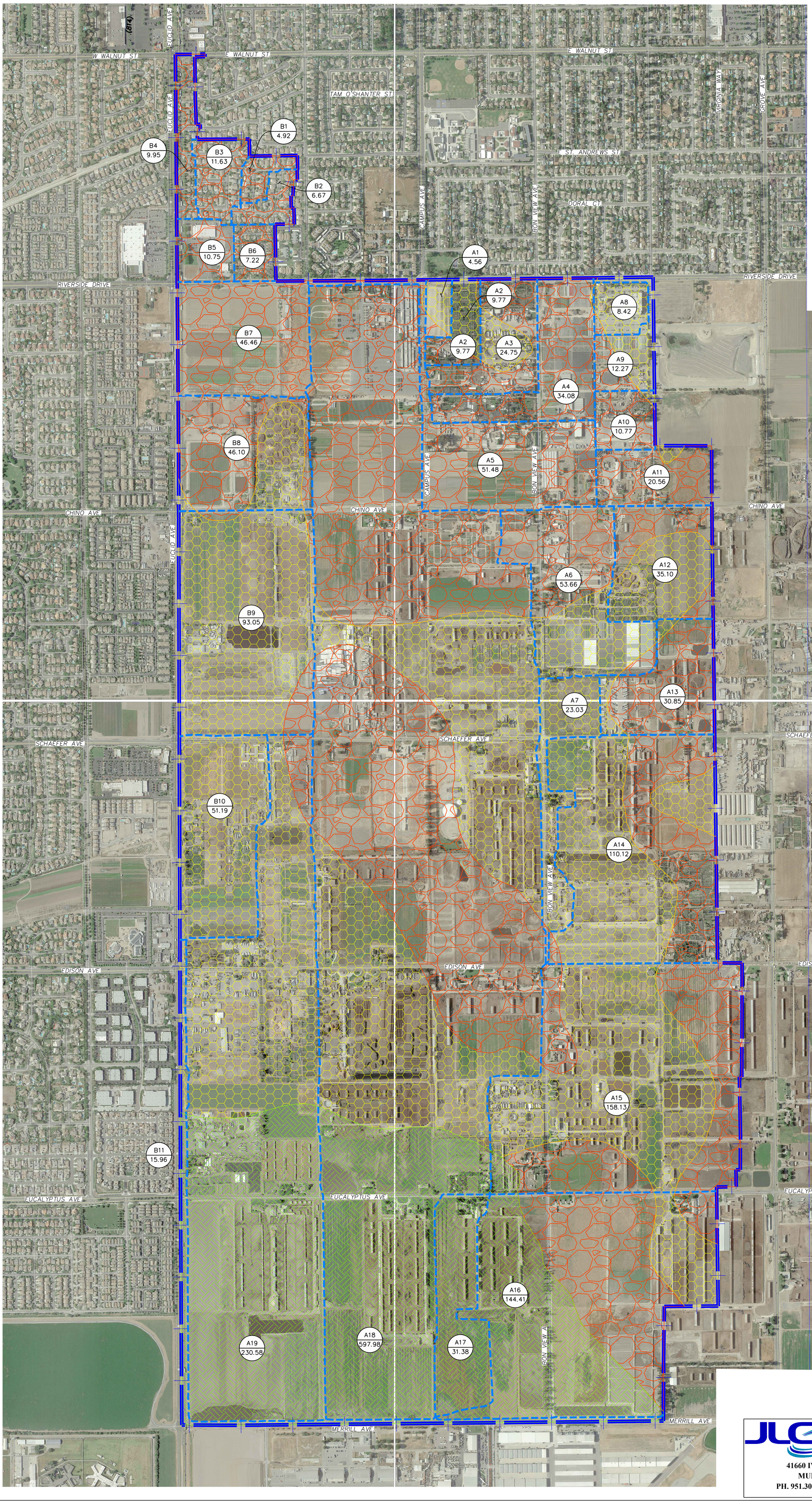
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Last Opened: Mar 15, 2023 - 3:55pm by mhunt

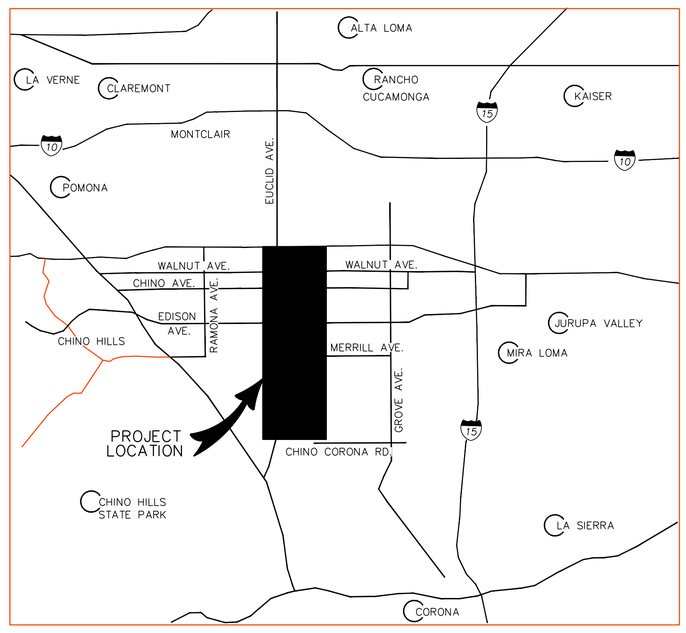
EXHIBIT D: SOILS MAP

EUCLID MIXED USE SPECIFIC PLAN

IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

SOILS MAP





VICINITY MAP

N.T.S.

TXN – RXW SECTION X

LEGEND:

SOIL A

SOIL B

SOIL C

SOIL D

GRAPHIC SCALE

400' 0 200' 400' 800'

1" = 400'

EXHIBIT "D"

EUCLID MIXED USE SPECIFIC PLAN

SOILS MAP

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

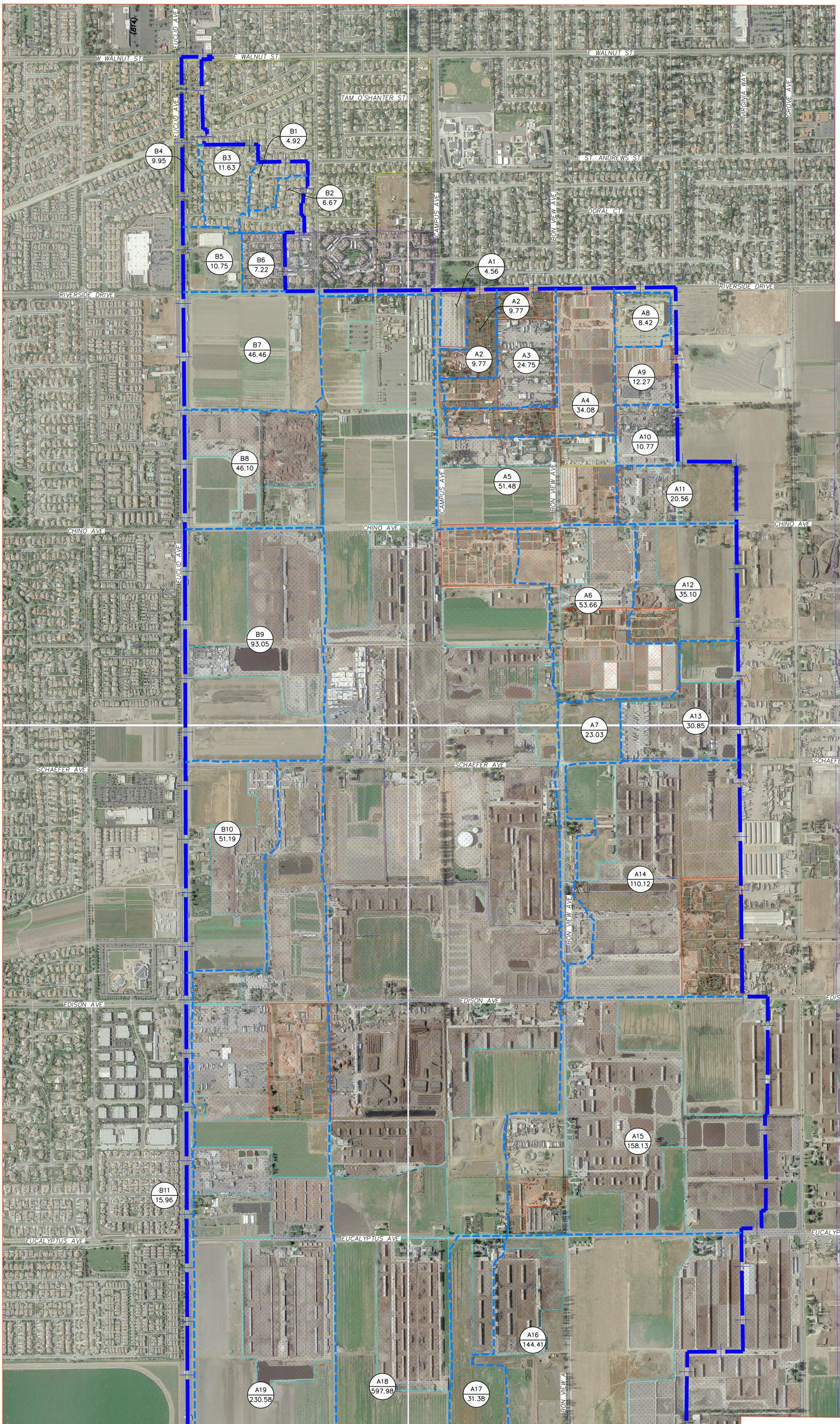
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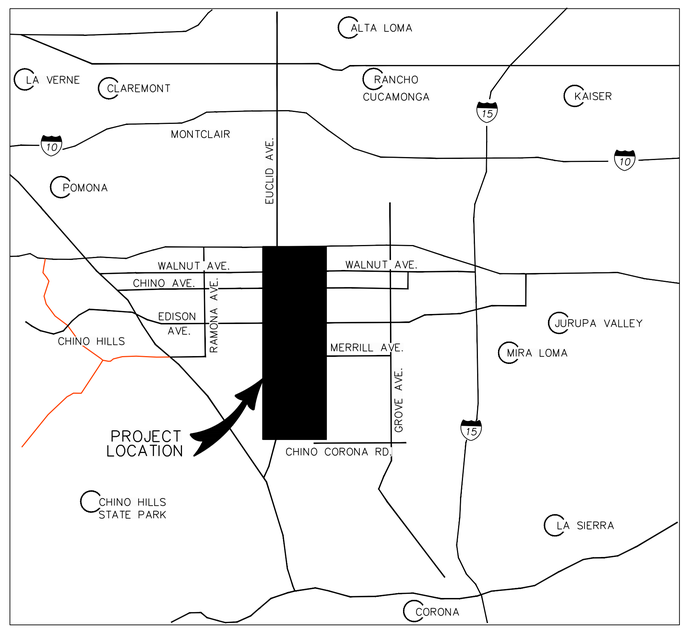
EXHIBIT E: LAND USE MAP

EUCLID MIXED USE SPECIFIC PLAN

IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

LAND USE MAP





VICINITY MAP

N.T.S.

TXN – RXW SECTION X

LEGEND:

- RESIDENTIAL
- RESIDENTIAL – HIGH
- COMMERCIAL
- PASTURE
- BARREN
- ORCHARD FAIR

GRAPHIC SCALE

400' 0 200' 400' 800'

1" = 400'

EXHIBIT "E"

EUCLID MIXED USE SPECIFIC PLAN

LAND USE MAP

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

Drawing Name: C:\265.24.23\Engineering\Hydrology_Plan\Exhibits\Exhibit E – Land Use Map.dwg
Last Opened: Mar 15, 2023 – 1:30pm by mhunt

EUCLID MIXED USE SPECIFIC PLAN

HYDRAULIC REPORT
IN SUPPORT OF
EUCLID AVENUE STORM DRAIN
(EULD-XIV-1)

CITY OF ONTARIO
CALIFORNIA

PREPARED FOR:

WESTLAND GROUP, INC.
4150 CONCOURS, ONTARIO CA

PREPARED BY:

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552
FAX 951.304.3568

MAY 10, 2023
REVISED:

This report has been prepared by or under the direction of the following registered civil engineer who attests to the technical information contained herein. The registered civil engineer has also judged the qualifications of any technical specialists providing engineering data upon which recommendations, conclusions, and decisions are based.



05/10/2023

Joseph L. Castaneda RCE 59835 Registered Civil Engineer	Date	Seal

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I. PURPOSE AND SCOPE 1
II. PROJECT DESCRIPTION AND MASTER DRAINAGE PLAN OVERVIEW 1
III. OFFSITE HYDRAULICS 2
IV. CONCLUSION 3
V. REFERENCES 3

FIGURES

FIGURE 1: **VICINITY MAP**
FIGURE 2: **EXISTING MDP DRAINAGE FACILITIES MAP**
FIGURE 3: **PROPOSED MDP DRAINAGE FACILITIES MAP**

APPENDICES

APPENDIX A: **STORM DRAIN HYDRAULIC CALCULATIONS**
APPENDIX A.1: EUCLID AVENUE WSPG MODEL
APPENDIX A.2: LINE B WSPG MODEL
APPENDIX A.3: LINE C WSPG MODEL

EXCERPTS

EXCERPT A: CITY OF ONTARIO MASTER DRAINAGE PLAN HYDROLOGY MAP
EXCERPT B: CITY OF ONTARIO MASTER DRAINAGE PLAN PLANNED FACILITIES MAP
EXCERPT C: STORM DRAIN IMPROVEMENT PLAN FOR PM-20016 EUCLID AVENUE (SR83) FROM 3350' SOUTH MERRILL AVENUE TO EUCALYPTUS AVENUE

EXHIBITS

EXHIBIT A: EUCLID AVENUE STORM DRAIN DRAINAGE FACILITIES MAP

I. PURPOSE AND SCOPE

The purpose of this study is to evaluate the offsite storm drain systems located in Euclid Avenue and proposed as part of the Euclid Mixed Use Specific Plan (EMUSP) project. The EMUSP project site is located within the City of Ontario Master Drainage Plan Area XIV and plans to construct several City of Ontario Master Drainage Plan storm drain facilities.

The scope of the study includes the following:

1. Determination of the 100-year peak flow rates for the Euclid Avenue storm drain systems based on the City of Ontario Master Drainage Plan.
2. Hydraulically assess the proposed mainline storm drain systems located in Euclid Avenue.
3. Preparation of a drainage report, which consists of hydraulic and analytical results and exhibits.

II. PROJECT DESCRIPTION AND MASTER DRAINAGE PLAN OVERVIEW

Euclid Mixed Use Specific Plan (EMUSP) is a proposed industrial development within the City of Ontario. The project site is bounded by Schaefer Avenue to the north, Euclid Avenue to the west, Edison Avenue to the south, and Sultana Avenue to the east, as shown on Figure 1 Vicinity Map. The Euclid Avenue mainline storm drain systems which are the focus of this report are located on Euclid Avenue from Eucalyptus Avenue to Schaefer Avenue, as shown on Figure 1 Vicinity Map. The project site is located within the City of Ontario's Master Drainage Plan (MDP) Area XIV, see Excerpt A. The City of Ontario's Master Drainage Plan Planned Facilities Map has been included as Excerpt B.

The MDP Area XIV is approximately bounded by Riverside Drive to the north, between Bon View Avenue and Grove Avenue to the east, Merrill Avenue to the south, and Euclid Avenue to the west, see Figure 1 Vicinity Map. Runoff flows to the south and is collected in storm drain facilities which ultimately discharge into the City of Chino Line I system located south of the southwestern corner of Area XIV near the intersection of Merrill Avenue and Euclid Avenue.

As part of the PM 20016 Project (Ontario Ranch Business Park) storm drain infrastructure is being constructed along Euclid Avenue, Eucalyptus Avenue, Merrill Avenue, Sultana Avenue, Campus Avenue, and Bon View Avenue. The EMUSP project was assessed based on the downstream storm drain construction being completed and operational. The existing MDP facilities constructed per PM 20016 are shown on Figure 2.

The EMUSP project proposes the following Master Drainage Plan Facilities, as shown on Figure 3:

1. EULD-XIV-1 located on Euclid Avenue between Eucalyptus Avenue and Schaefer Avenue.

2. EULD-XIV-3 located on Edison Avenue east of Euclid Avenue
3. EULD-XIV-4 located on Schaefer Avenue east of Euclid Avenue

This report focuses on the mainline analysis for the proposed MDP systems located on Euclid Avenue:

MDP System	Location	Name used in this report and on the SD Improvement Plans	Flow Rate per MDP (see Excerpt A)
EULD-XIV-1	Euclid Ave, north of Schaefer Ave	Euclid Ave SD / Line A	338.5 ft^3/s
EULD-XIV-1	Euclid Ave, south of Schaefer Ave, north of Edison Ave	Euclid Ave SD / Line A	568.4 ft^3/s
EULD-XIV-1	Euclid Ave, south of Edison Ave	Euclid Ave SD / Line A	829.1 ft^3/s
EULD-XIV-3*	Edison Avenue	Line B	289.0 ft^3/s
EULD-XIV-4*	Schaefer Avenue	Line C	234.5 ft^3/s

*Only the portions of the EULD-XIV-3 and EULD-XIV-4 storm drain systems located within Euclid Avenue were included in the analysis for this report. Separate reports shall be prepared to assess the rest of the EULD-XIV-3 and EULD-XIV-4 systems proposed as part of the EMUSP project.

III. OFFSITE HYDRAULICS

A Drainage Facilities Map has been provided, see Exhibit A. The Euclid Avenue storm drain systems were hydraulically assessed using the WSPG program.

The flow rates used for the hydraulic analysis are per the flow rates established by the City of Ontario Master Drainage Plan. The flow rates used are listed on the table in the previous section and shown on the Drainage Facilities Map, Exhibit A.

The downstream control for the Euclid Ave/Line A system was 649.82 per the storm drain plans for the downstream storm drain system. The hydraulic grade line calculated for Euclid Ave/Line A was used as the downstream control for Line B and Line C. The improvement plans for the downstream storm drain system have been included as Excerpt C.

The WSPG calculations are included in Appendix A.

IV. CONCLUSION

The study evaluated the storm drain improvements located in Euclid Avenue associated with the Euclid Mixed Use Specific Plan project. It has been concluded that:

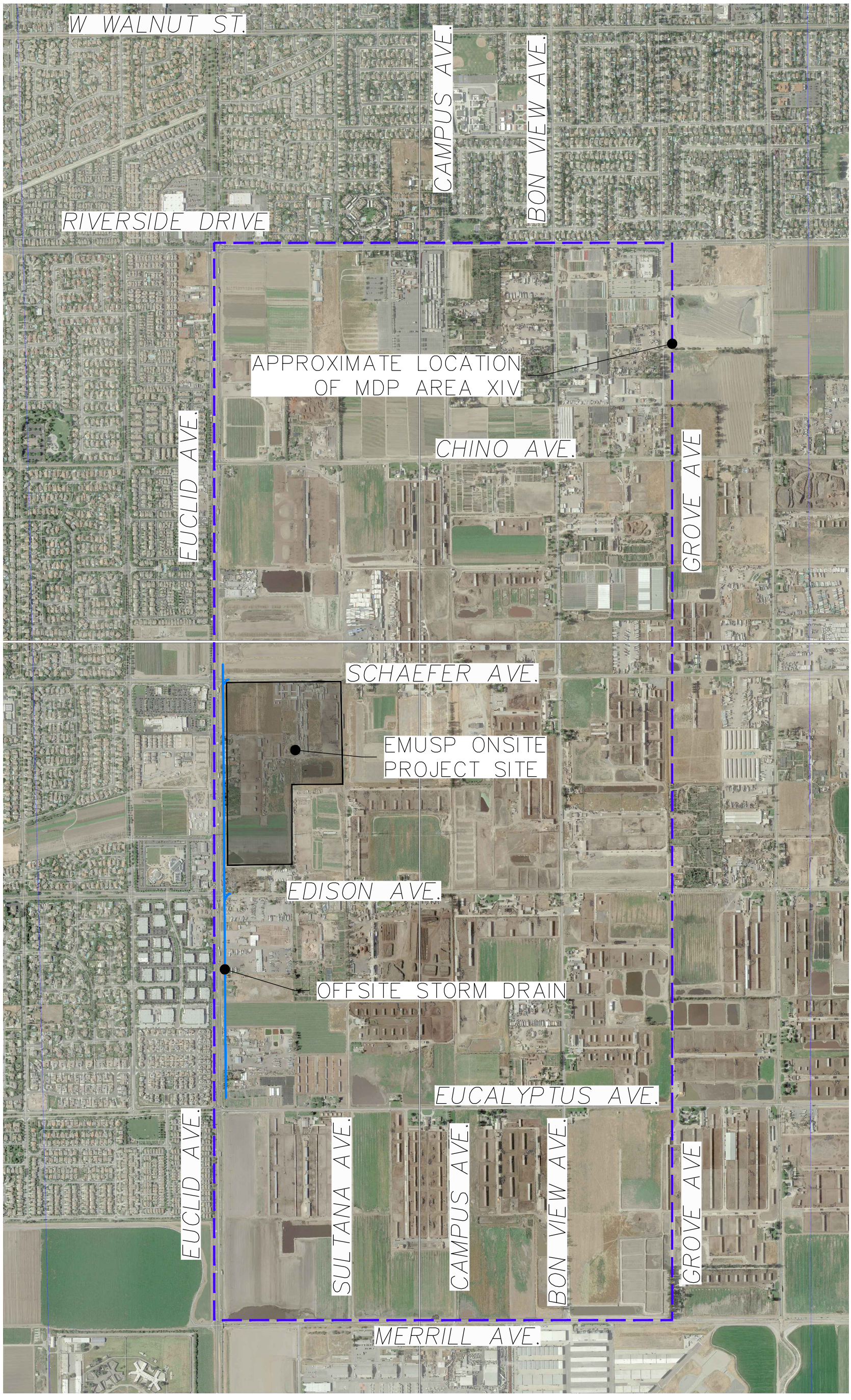
1. The proposed project is located within the City of Ontario Master Drainage Plan Area XIV which provides the regional storm drain system to flood protect the area.
2. The proposed Euclid Avenue storm drain systems are City of Ontario Master Drainage Plan planned facilities. The MDP has established flow rates for the proposed storm drain systems.
3. A hydraulic grade line has been established for the proposed storm drain systems.

V. REFERENCES

1. San Bernardino Flood Control Hydrology Manual, August 1986.
2. City of Ontario Master Plan of Drainage, Revised June 2017

FIGURES

FIGURE 1: VICINITY MAP



SCALE 1"=1200'

VICINITY MAP

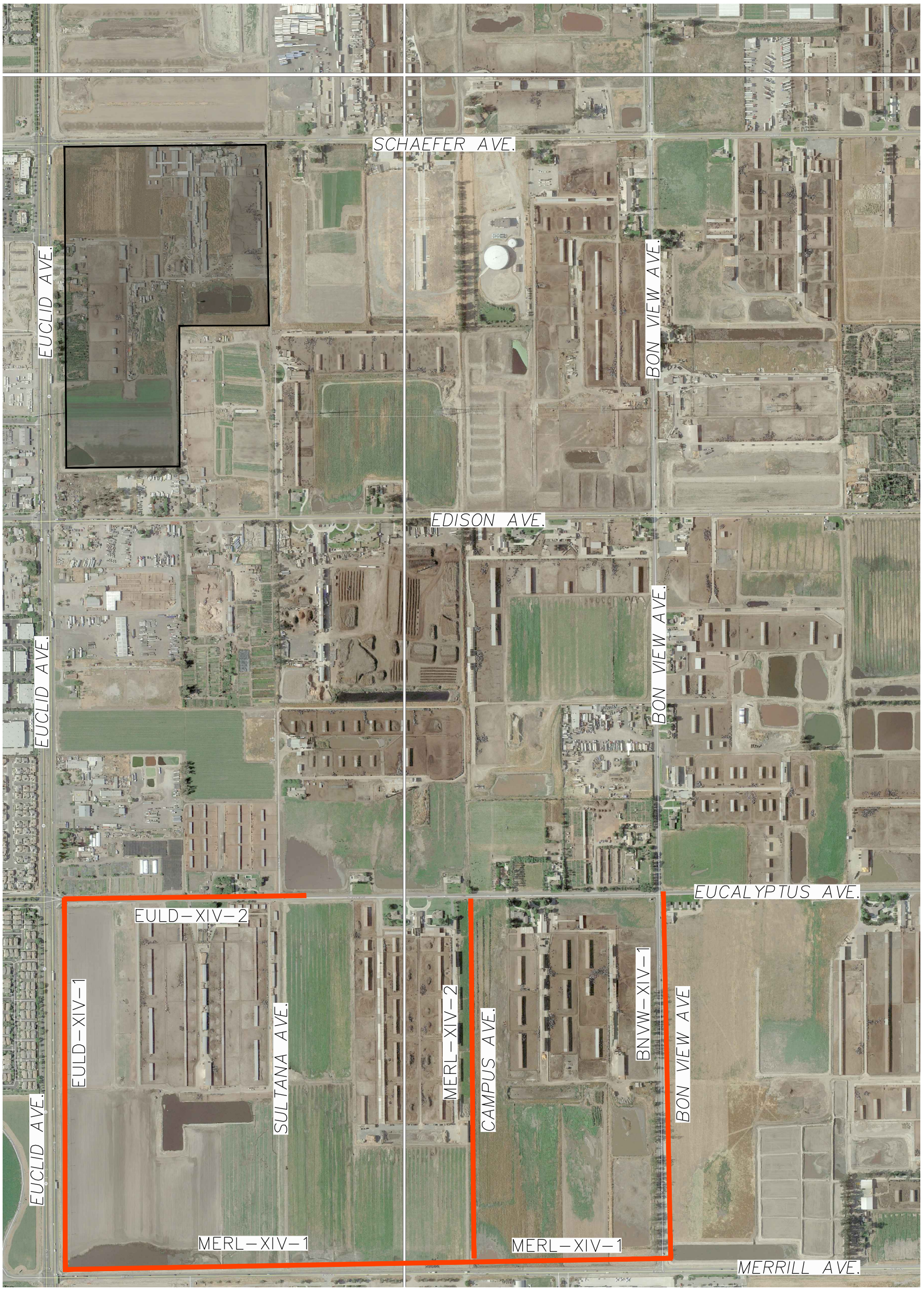
FIGURE 1

JLC Engineering & Consulting, Inc.
41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits_Offsite_Hydraulics\FIGURE-1-VICINITY-MAP.dwg
Last Opened: May 10, 2023 - 10:48am by stanner

FIGURE 2: EXISTING MDP DRAINAGE FACILITIES MAP

EXISTING MDP DRAINAGE FACILITIES MAP



SCALE 1"=700'

LEGEND:

EXISTING MDP SYSTEMS PER PM 20016

EMUSP ONSITE PROJECT SITE

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

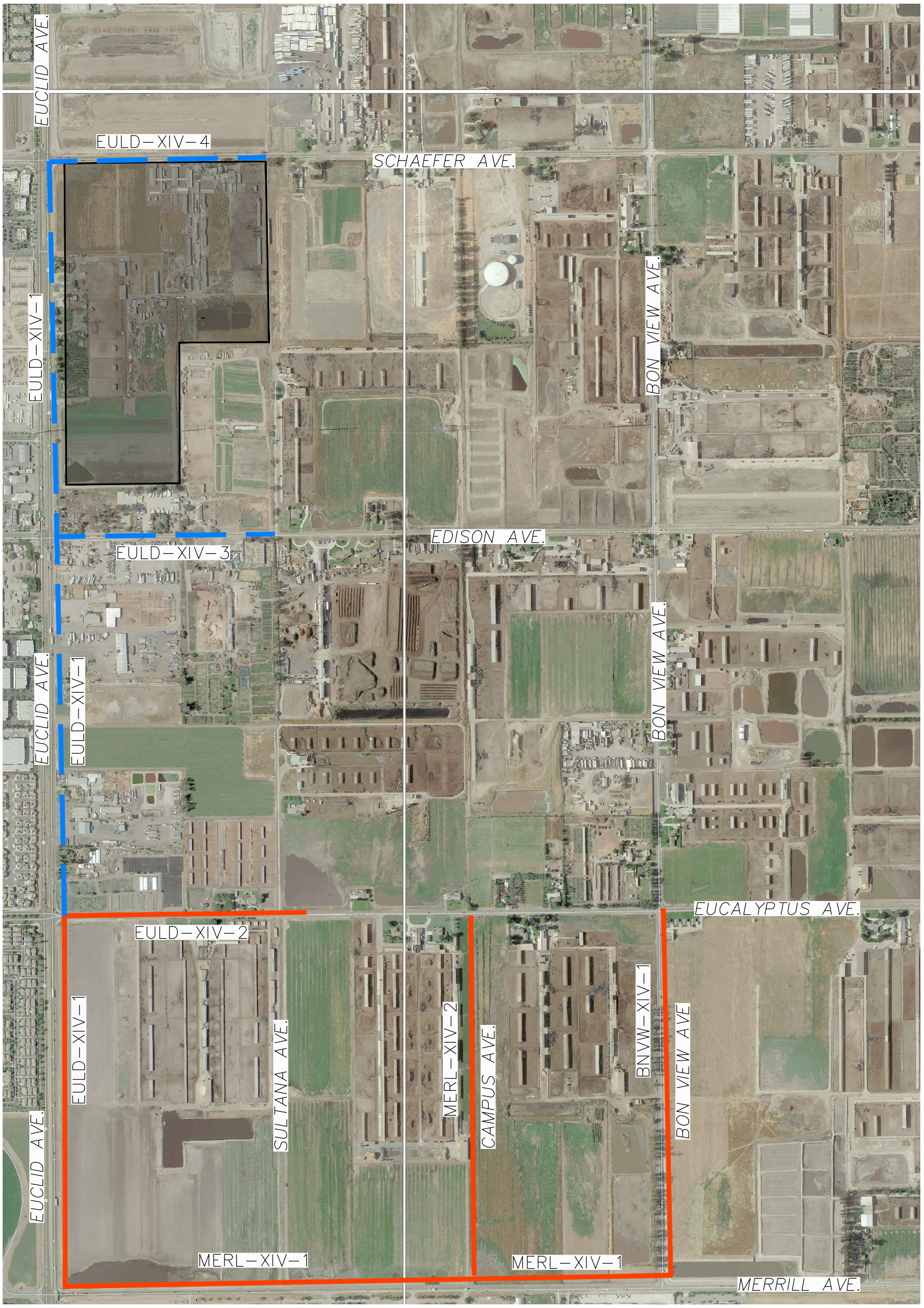
FIGURE 2

EXISTING MDP DRAINAGE FACILITIES MAP

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits_Offsite_Hydraulics\FIGURE-2-EXISTING-MDP.dwg
Last Opened: May 10, 2023 - 10:51am by stanner

FIGURE 3: PROPOSED MDP DRAINAGE FACILITIES MAP

PROPOSED MDP DRAINAGE FACILITIES MAP



SCALE 1"=700'

LEGEND:

- EXISTING MDP SYSTEMS PER PM 20016
- PROPOSED MDP SYSTEMS PER EMUSP
- EMUSP ONSITE PROJECT SITE

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

FIGURE 3

PROPOSED MDP DRAINAGE FACILITIES MAP

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits_Offsite_Hydraulics\FIGURE-3-PROPOSED-MDP.dwg
Last Opened: May 10, 2023 - 2:02pm by stanner

APPENDICES

APPENDIX A: STORM DRAIN HYDRAULIC CALCULATIONS

APPENDIX A.1: EUCLID AVENUE WSPG MODEL

```
T1 265.24.22
T2 WSPG RUN FOR EUCLID AVENUE (SR83)
T3 FN: EUCLID.WSW
SO   3762.560 639.170  1                          649.820
R    3935.350 640.730  1      .013                                .000    .000 0
R    6192.240 664.650  1      .013                                .000    .000 0
JX   6212.400 665.150  3  2   .013  260.700          664.920        45.0         .000
R    8821.510 692.810  3      .013                                .000    .000 0
JX   8841.670 693.310  5  4   .013  229.900          692.820        45.0         .000
R    9084.670 695.890  5      .013                                .000    .000 0
SH   9084.670 695.890  5                          695.890
CD   1  4   1    .000   8.500     .000  .000  .000   .00
CD   2  4   1    .000   8.000     .000  .000  .000   .00
CD   3  4   1    .000   7.500     .000  .000  .000   .00
CD   4  4   1    .000   7.500     .000  .000  .000   .00
CD   5  4   1    .000   6.500     .000  .000  .000   .00
Q           338.500   .0
```

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:53:48

265.24.22

WSPG RUN FOR EUCLID AVENUE (SR83)

FN: EUCLID.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
3762.560	639.170	10.650	649.820	829.10	14.61	3.31	653.13	.00	7.15	.00	8.500	.000	.00	1 .0
172.790	.0090					.0060	1.03	10.65	.00	5.82	.013	.00	.00	PIPE
3935.350	640.730	10.123	650.853	829.10	14.61	3.31	654.17	.00	7.15	.00	8.500	.000	.00	1 .0
253.820	.0106					.0060	1.52	10.12	.00	5.50	.013	.00	.00	PIPE
4189.170	643.420	8.950	652.370	829.10	14.61	3.31	655.68	.00	7.15	.00	8.500	.000	.00	1 .0
HYDRAULIC JUMP														
4189.170	643.420	5.498	648.918	829.10	21.35	7.08	656.00	.00	7.15	8.13	8.500	.000	.00	1 .0
824.484	.0106					.0106	8.74	5.50	1.72	5.50	.013	.00	.00	PIPE
5013.654	652.159	5.498	657.657	829.10	21.35	7.08	664.74	.00	7.15	8.13	8.500	.000	.00	1 .0
698.644	.0106					.0102	7.11	5.50	1.72	5.50	.013	.00	.00	PIPE
5712.297	659.563	5.664	665.227	829.10	20.64	6.62	671.84	.00	7.15	8.02	8.500	.000	.00	1 .0
255.673	.0106					.0092	2.36	5.66	1.63	5.50	.013	.00	.00	PIPE
5967.970	662.273	5.911	668.184	829.10	19.68	6.02	674.20	.00	7.15	7.82	8.500	.000	.00	1 .0
117.552	.0106					.0082	.97	5.91	1.49	5.50	.013	.00	.00	PIPE
6085.522	663.519	6.178	669.697	829.10	18.77	5.47	675.17	.00	7.15	7.58	8.500	.000	.00	1 .0
63.649	.0106					.0074	.47	6.18	1.37	5.50	.013	.00	.00	PIPE
6149.171	664.194	6.469	670.662	829.10	17.89	4.97	675.63	.00	7.15	7.25	8.500	.000	.00	1 .0
32.814	.0106					.0066	.22	6.47	1.25	5.50	.013	.00	.00	PIPE

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:53:48

265.24.22

WSPG RUN FOR EUCLID AVENUE (SR83)

FN: EUCLID.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
6181.985	664.541	6.790	671.331	829.10	17.06	4.52	675.85	.00	7.15	6.82	8.500	.000	.00	1 .0
10.255	.0106					.0060	.06	6.79	1.13	5.50	.013	.00	.00	PIPE
6192.240	664.650	7.155	671.805	829.10	16.26	4.11	675.91	.00	7.15	6.21	8.500	.000	.00	1 .0
JUNCT STR	.0248					.0056	.11	7.15	1.00		.013	.00	.00	PIPE
6212.400	665.150	10.172	675.322	568.40	12.87	2.57	677.89	.00	6.14	.00	7.500	.000	.00	1 .0
474.593	.0106					.0055	2.60	10.17	.00	4.71	.013	.00	.00	PIPE
6686.993	670.181	7.741	677.922	568.40	12.87	2.57	680.49	.00	6.14	.00	7.500	.000	.00	1 .0
HYDRAULIC JUMP														
6686.993	670.181	4.707	674.889	568.40	19.47	5.89	680.78	.00	6.14	7.25	7.500	.000	.00	1 .0
1233.438	.0106					.0106	13.08	4.71	1.71	4.71	.013	.00	.00	PIPE
7920.431	683.257	4.707	687.965	568.40	19.47	5.89	693.85	.00	6.14	7.25	7.500	.000	.00	1 .0
566.900	.0106					.0101	5.70	4.71	1.71	4.71	.013	.00	.00	PIPE
8487.331	689.267	4.888	694.156	568.40	18.64	5.39	699.55	.00	6.14	7.15	7.500	.000	.00	1 .0
172.320	.0106					.0090	1.55	4.89	1.59	4.71	.013	.00	.00	PIPE
8659.651	691.094	5.099	696.193	568.40	17.77	4.90	701.10	.00	6.14	7.00	7.500	.000	.00	1 .0
84.289	.0106					.0080	.67	5.10	1.47	4.71	.013	.00	.00	PIPE
8743.940	691.988	5.325	697.313	568.40	16.94	4.46	701.77	.00	6.14	6.81	7.500	.000	.00	1 .0
46.346	.0106					.0071	.33	5.32	1.35	4.71	.013	.00	.00	PIPE

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:53:48

265.24.22

WSPG RUN FOR EUCLID AVENUE (SR83)

FN: EUCLID.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
8790.286	692.479	5.570	698.049	568.40	16.16	4.05	702.10	.00	6.14	6.56	7.500	.000	.00	1 .0
23.871	.0106					.0064	.15	5.57	1.23	4.71	.013	.00	.00	PIPE
8814.157	692.732	5.838	698.570	568.40	15.40	3.68	702.25	.00	6.14	6.23	7.500	.000	.00	1 .0
7.353	.0106					.0058	.04	5.84	1.12	4.71	.013	.00	.00	PIPE
8821.510	692.810	6.139	698.949	568.40	14.69	3.35	702.30	.00	6.14	5.78	7.500	.000	.00	1 .0
JUNCT STR	.0248					.0048	.10	6.14	1.00		.013	.00	.00	PIPE
8841.670	693.310	9.234	702.544	338.50	10.20	1.62	704.16	.00	4.94	.00	6.500	.000	.00	1 .0
243.000	.0106					.0042	1.01	9.23	.00	3.73	.013	.00	.00	PIPE
9084.670	695.890	7.667	703.557	338.50	10.20	1.62	705.17	.00	4.94	.00	6.500	.000	.00	1 .0

APPENDIX A.2: LINE B WSPG MODEL

```
T1 265.24.22
T2 WSPG RUN FOR LINE B
T3 FN: LINEB.WSW
SO   1017.100 664.990  1                          675.322
R    1065.020 665.230  1      .013                              .000    .000 0
R    1107.900 665.440  1      .013                            54.597    .000 0
SH   1107.900 665.440  1                          665.440
CD   1  4   1    .000   8.000     .000  .000  .000   .00
Q           289.000   .0
```

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:53:54

265.24.22

WSPG RUN FOR LINE B

FN: LINEB.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1017.100	664.990	10.332	675.322	289.00	5.75	.51	675.84	.00	4.29	.00	8.000	.000	.00	1 .0
47.920	.0050					.0010	.05	10.33	.00	3.75	.013	.00	.00	PIPE
1065.020	665.230	10.140	675.370	289.00	5.75	.51	675.88	.00	4.29	.00	8.000	.000	.00	1 .0
42.880	.0049					.0010	.04	.00	.00	3.78	.013	.00	.00	PIPE
1107.900	665.440	10.053	675.493	289.00	5.75	.51	676.01	.00	4.29	.00	8.000	.000	.00	1 .0

APPENDIX A.3: LINE C WSPG MODEL

```
T1 265.24.22
T2 WSPG RUN FOR LINE C
T3 FN: LINEC.WSW
SO   1016.150 692.890  1                          702.544
R    1079.620 693.210  1      .013                              .000    .000 0
R    1122.560 693.420  1      .013                            54.597    .000 0
SH   1122.560 693.420  1                          693.420
CD   1  4   1    .000   7.500     .000  .000  .000   .00
Q           234.500   .0
```

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:54: 0

265.24.22

WSPG RUN FOR LINE C

FN: LINEC.WSW

Station / L/Elem	Invert Elev / Ch Slope	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head / SF Ave	Energy Grd.El. / HF	Super Elev / SE Dpth	Critical Depth / Froude N	Flow Top Width / Norm Dp	Height/ Dia.-FT / "N"	Base Wt or I.D. / X-Fall	ZL / ZR	No Wth Prs/Pip / Type Ch
1016.150	692.890	9.654	702.544	234.50	5.31	.44	702.98	.00	3.92	.00	7.500	.000	.00	1 .0
63.470	.0050					.0009	.06	9.65	.00	3.44	.013	.00	.00	PIPE
1079.620	693.210	9.393	702.603	234.50	5.31	.44	703.04	.00	3.92	.00	7.500	.000	.00	1 .0
42.940	.0049					.0009	.04	.00	.00	3.47	.013	.00	.00	PIPE
1122.560	693.420	9.291	702.711	234.50	5.31	.44	703.15	.00	3.92	.00	7.500	.000	.00	1 .0

EXCERPTS

EXCERPT A: CITY OF ONTARIO MASTER DRAINAGE PLAN HYDROLOGY MAP

XIV

XII

XIII

XI

X

XV

FONTANA

RIVERSIDE

GROVE AVE BASIN

RIVERSIDE DR STORM DRAIN 1

RIVERSIDE DR STORM DRAIN 2

LOWER CUCAMONGA SPREADING GROUNDS

CHRIS BASIN

EUCLID MIXED USE SPECIFIC PLAN ONISTE PROJECT SITE

CUCAMONGA CHANNEL

LOWER DEER CREEK CHANNEL

ARCHIBALD AVE

AIRPORT CHANNEL

GROVE AVE STORM DRAIN

CHINO LINE A

COUNTY LINE CHANNEL

OFF-SITE FLOWS Q100=524cfs

EXISTING DOUBLE 10'W x 6'H RCB

LEGEND

- COUNTY LIMITS
- CITY LIMITS
- PLANNED STORM DRAIN, SIZE AND LINE ID (X" / XXXX-X-X)
- DRAINAGE AREA BOUNDARY
- DRAINAGE SYSTEM BOUNDARY
- MINOR DRAINAGE BOUNDARY
- (X) EXISTING CITY STORM DRAIN AND SIZE (IN INCHES)
- EXISTING COUNTY OPEN CHANNEL
- EXISTING COUNTY STORM DRAIN AND SIZE (IN INCHES)
- X DRAINAGE AREA #
- DRAINAGE SYSTEM NAME / WLKR - XII - 3 SYSTEM IDENTIFICATION (DRAINAGE AREA NUMBER / LINE NUMBER)
- X / XX AREA DESIGNATION, AREA ACREAGE (IN ACRES)
- Q_{10} =861.0cfs, Q_{25} =981.1cfs, Q_{100}=1213.7cfs — PEAK FLOW RATE
- t=36.1, A=942.7ac — TIME OF CONCENTRATION, AREA

SCALE: 1" = 800'

800 400 0 800 2400

GRAPHIC SCALE 1"=800'

DATE	REV.	DESCRIPTION
06-2017	1	REVISIONS TO DRAINAGE AREA XI AND XII TO MATCH APPROVED "MASTER PLAN OF DRAINAGE REVISION WLKR-XII-1 REALIGNMENT" MEMO DATED DECEMBER 2016

REVISIONS
5-20-2017: REVISED TO MERGE DRAINAGE AREA XII AND XIII.

MARCH 2012

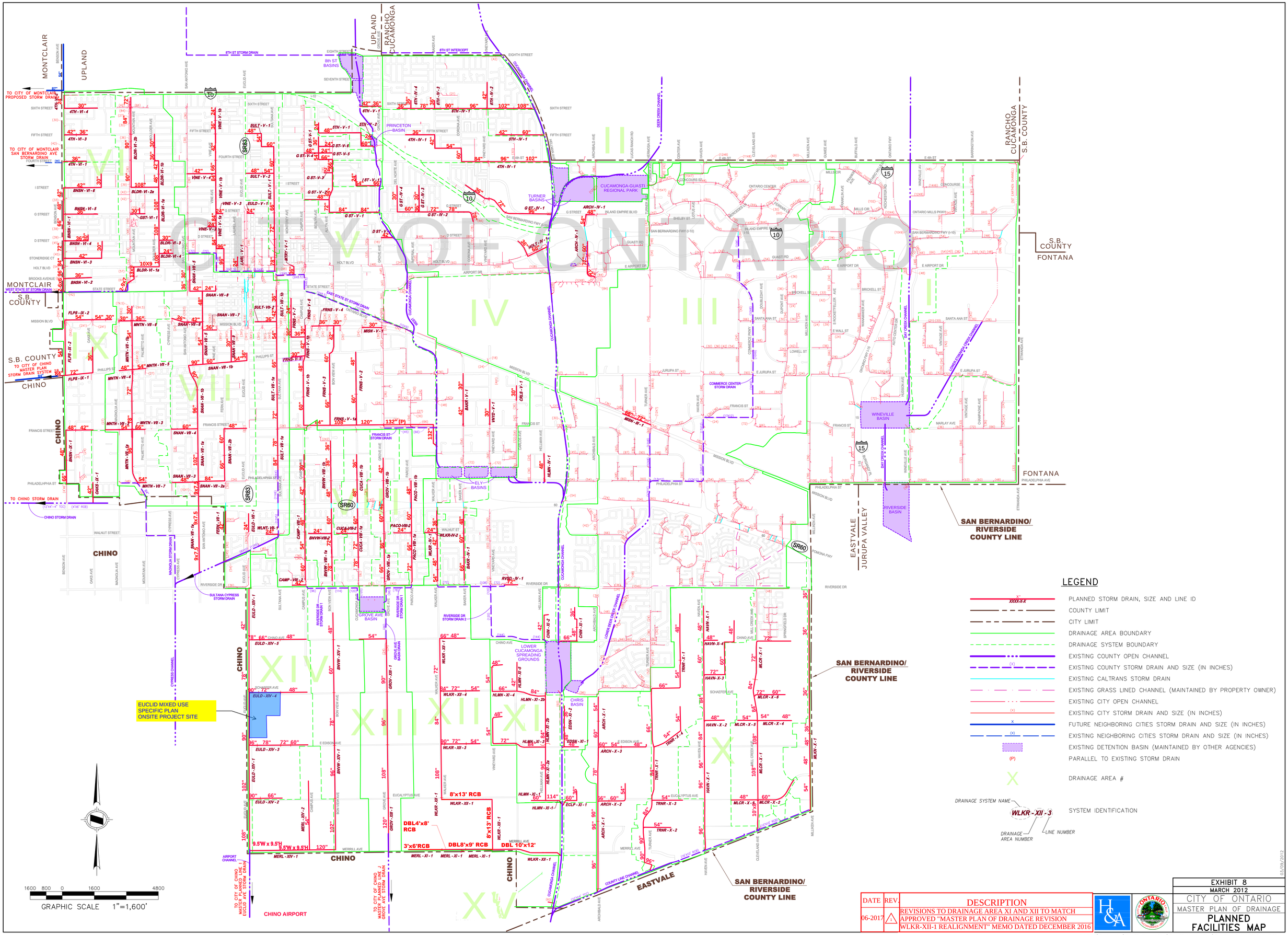
CITY OF ONTARIO
MASTER PLAN OF DRAINAGE
HYDROLOGY MAP
NEW MODEL COLONY

HUNSAKER & ASSOCIATES IRVINE, INC
PLANNING ■ ENGINEERING ■ SURVEYING
Three Hughes Irvine, CA 92618 PH: (949) 583-1010 FX: (949) 583-0759

SHEET 3 OF 3

PLOTTED 12/12/2017 1:53 PM
\\TUSFS1\HFIProject\140152\Eng\140152-0000\Hm\Hydrology Report\MPD Update\Civil 3D Files\New Model Hydrology Map Update.dwg

EXCERPT B: CITY OF ONTARIO MASTER DRAINAGE PLAN PLANED FACILITIES MAP



LEGEND

- PLANNED STORM DRAIN, SIZE AND LINE ID (XXXX-X-X)
- COUNTY LIMIT
- CITY LIMIT
- DRAINAGE AREA BOUNDARY
- DRAINAGE SYSTEM BOUNDARY
- EXISTING COUNTY OPEN CHANNEL
- EXISTING COUNTY STORM DRAIN AND SIZE (IN INCHES) (X)
- EXISTING CALTRANS STORM DRAIN
- EXISTING GRASS LINED CHANNEL (MAINTAINED BY PROPERTY OWNER)
- EXISTING CITY OPEN CHANNEL
- EXISTING CITY STORM DRAIN AND SIZE (IN INCHES) (X)
- FUTURE NEIGHBORING CITIES STORM DRAIN AND SIZE (IN INCHES) X
- EXISTING NEIGHBORING CITIES STORM DRAIN AND SIZE (IN INCHES) (XX)
- EXISTING DETENTION BASIN (MAINTAINED BY OTHER AGENCIES)
- (P) PARALLEL TO EXISTING STORM DRAIN
- X DRAINAGE AREA #
- DRAINAGE SYSTEM NAME — WLKR - XII - 3 — SYSTEM IDENTIFICATION (DRAINAGE AREA NUMBER / LINE NUMBER)

DATE	REV.	DESCRIPTION
06-2017	1	REVISIONS TO DRAINAGE AREA XI AND XII TO MATCH APPROVED "MASTER PLAN OF DRAINAGE REVISION WLKR-XII-1 REALIGNMENT" MEMO DATED DECEMBER 2016

EXHIBIT 8
MARCH 2012
CITY OF ONTARIO
MASTER PLAN OF DRAINAGE
PLANNED FACILITIES MAP

03/09/2012

F:\0641\Engineering\SY_SD Master Plan\Rpt_SD Master Plan\Exh 8 - PLANNED FACILITIES.dwg

EXCERPT C: **STORM DRAIN IMPROVEMENT PLAN FOR PM-20016 EUCLID AVENUE (SR83) FROM 3350' SOUTH MERRILL AVENUE TO EUCALYPTUS AVENUE**

STORM DRAIN IMPROVEMENT PLAN

FOR
PM-20016
EUCLID AVENUE (SR83)
FROM 3350' SOUTH MERRILL AVENUE TO EUCALYPTUS AVENUE
IN THE CITY OF ONTARIO

CITY OF ONTARIO GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE CURRENT CITY OF ONTARIO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS AND CURRENT STANDARD SPECIFICATIONS AND STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION AND CALTRANS PERMIT UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS/HER OPERATIONS, WHETHER OR NOT THE FACILITY IS SHOWN ON THESE PLANS.
3. ALL OBSTRUCTIONS WITHIN THE AREA TO BE IMPROVED SHALL BE REMOVED AND/OR RELOCATED AT THE DIRECTION OF THE CITY ENGINEER. UTILITIES ARE TO BE RELOCATED BY THEIR RESPECTIVE OWNERS UNLESS NOTED OTHERWISE. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. UTILITY LINE LOCATIONS WERE TAKEN FROM AVAILABLE RECORD DATA AND WERE NOT LOCATED IN THE FIELD, UNLESS OTHERWISE NOTED ON THE PLAN. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
5. IN CASE OF ANY ACCIDENTS INVOLVING SAFETY MATTERS COVERED BY SECTION 6409(B) OF THE CALIFORNIA LABOR CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE DIVISION OF INDUSTRIAL SAFETY.
6. STATE LAW (SB 3019) REQUIRES THE CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT AND OBTAIN AN IDENTIFICATION NUMBER PRIOR TO THE ISSUANCE OF CITY'S ENCROACHMENT PERMITS. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 1-800-422-4133 A MINIMUM OF 48-HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
7. PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL OBTAIN A BUSINESS LICENSE FROM THE CITY OF ONTARIO. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE ENGINEERING DEPARTMENT NO LESS THAN 48 HOURS PRIOR TO START OF ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY.
8. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT 48 HOURS PRIOR TO TIME OF CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS REFERRED TO SECTION 7-10.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
9. THE CONTRACTOR SHALL RENEW OR REPLACE ANY EXISTING TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS, WHICH DURING HIS OPERATIONS HAVE BEEN EITHER REMOVED OR THE EFFECTIVENESS OF WHICH HAS BEEN REDUCED. RENEWAL OF TRAFFIC STRIPING AND MARKINGS SHALL BE DONE USING REFLECTIVE THERMO-PLASTIC MARKINGS IN CONFORMANCE WITH SECTION 84 & 85 OF THE CALTRANS STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. ALL REGULATORY, WARNING, AND GUIDE SIGNS SHALL HAVE 3M DIAMOND, VIP GRADE SHEETING WITH SERIES 1160 PROTECTIVE OVERLAY FILM.
10. THE LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS & PROFESSIONAL CODE, AND SECTIONS 732.5, 1492-5, 1810-5 OF THE STREETS AND HIGHWAY CODE REQUIRE THAT SURVEY MONUMENTS SHALL BE PROTECTED AND PERPETUATED.

    "IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR OTHERS PERFORMING THE CONSTRUCTION WORK TO RETAIN A QUALIFIED REGISTERED CIVIL ENGINEER AND/OR LICENSED LAND SURVEYOR PRIOR TO THE START OF CONSTRUCTION TO LOCATE, REFERENCE AND FILE THE NECESSARY CORNER RECORDS WITH THE COUNTY SURVEYOR'S OFFICE FOR SURVEY CONTROL POINTS/MONUMENTS THAT EXIST AS SHOWN ON RECORDED TRACT MAPS, PARCEL MAPS, RECORDS OF SURVEYS AND HIGHWAY MAPS, AND MAY BE DISTRIBUTED OR DAMAGED BY THE PROPOSED CONSTRUCTION"

    AFTER THE COMPLETION OF THE PROPOSED CONSTRUCTION, SAID MONUMENTS AND/OR CONTROL SURVEY POINTS SHALL BE RESET TO THE NEW SURFACE IN ACCORDANCE WITH THE CURRENT PROFESSIONAL LAND SURVEYING PRACTICES. CORNER RECORDS SHALL BE FILED WITH THE COUNTY SURVEYOR FOR ALL THE NEW MONUMENTS SET.
11. THE DEVELOPER SHALL PROVIDE THE CITY WITH A COMPLETED SET OF "AS BUILT", MYLAR DRAWINGS PRIOR TO THE FINAL INSPECTION.
12. A CITY ACCEPTED/APPROVED SET OF PLANS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
13. A PRE-CONSTRUCTION MEETING SHALL OCCUR PRIOR TO CONSTRUCTION. ATTENDEES SHALL INCLUDE A CITY REPRESENTATIVE AND THE CONTRACTOR WHO WILL PERFORM THE WORK. "CUT-SHEETS" SHALL BE PROVIDED TO THE CITY AT THIS MEETING FOR ITS REVIEW.
14. CITY ACCEPTANCE OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM RESPONSIBILITY FOR THE CORRECTION OF ERROR AND OMISSION DISCOVERED DURING CONSTRUCTION. UPON REQUEST OF THE CITY INSPECTOR, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR REVIEW.
15. ANY REQUIRED RIGHT-OF-WAY OR EASEMENT SHALL BE DEDICATED TO AND ACCEPTED BY THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE IMPROVEMENTS WITHIN THE REQUIRED RIGHT-OF-WAY OR EASEMENT.
16. WHERE UTILITIES NEED TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH A.P.W.A. STANDARD 224-1 UNLESS OTHERWISE INDICATED.
17. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING SEWER MAIN(S) AND NOTIFY THE DESIGN ENGINEER OF ANY VARIATION FROM DESIGN.
18. THE PIPE SHOWN HEREON SHALL BE INSTALLED IN ACCORDANCE WITH CASE III BEDDING AS SHOWN ON L.A.C.D.P.W. STANDARD 3080-2, UNLESS OTHERWISE SHOWN. "W" VALUE SHALL BE AS SPECIFIED ON L.A.C.D.P.W. STANDARD 3080-2 FOR CASE III BEDDING, NOTES 3 (A), 3 (B), AND 3 (C). IF THE "W" VALUE AT THE TOP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED. ALL PROPOSED MODIFICATIONS TO THIS REQUIREMENT SHALL BE APPROVED BY THE CITY ENGINEER.
19. MINIMUM COVER OF STORM DRAIN MAIN SHALL BE 7 FEET FROM THE FINISHED SURFACE PER STANDARD DRAWING 1302-1304.
20. STORM DRAIN MAIN STATIONING IS PER PIPE CENTERLINE.
21. STREET CENTERLINE STATIONING IS PER THE STREET IMPROVEMENT PLANS AND PROVIDED FOR REFERENCE.
22. CONTRACTOR SHALL NOT BACKFILL TRENCH UNTIL THE CITY INSPECTOR HAS OBTAINED AS-BUILT STATIONING ON ALL STRUCTURES.
23. UPON COMPLETION OF CONSTRUCTION OF ALL STORM DRAIN LINES AND PRIOR TO PAVING, THE DEVELOPER SHALL HIRE A CITY APPROVED VIDEO COMPANY TO VIDEO TAPE THE PIPELINES. CITY SHALL REVIEW SAID VIDEOTAPES FOR POTENTIAL CONSTRUCTION DEFECTS PRIOR TO ACCEPTANCE OF THE PROJECT.

BASIS OF BEARING

BEARINGS ARE BASED UPON THE CENTERLINE OF EUCLID AVENUE BEING N89°26'19"E AS SHOWN ON RECORD OF SURVEY 92/97 RECORDED AS INSTRUMENT NO. 1991-447293 OF OFFICIAL RECORDS OF THE COUNTY OF SAN BERNARDINO.

UTILITY PURVEYORS:

CITY OF ONTARIO, MUNICIPAL UTILITIES AGENCY
DAYTIME PH: (909) 395-2678
24-HOUR EMERGENCY: (909) 986-6711

CITY OF ONTARIO, COMMUNITY & PUBLIC SERVICES AGENCY
DAYTIME PH: (909) 395-2633
24-HOUR EMERGENCY: (909) 986-6711

INLAND EMPIRE UTILITY AGENCY
DAYTIME PH: (909) 944-6000
24-HOUR EMERGENCY: (909) 987-2591

SOUTHERN CALIFORNIA EDISON
24-HOUR EMERGENCY: (800) 611-1911

SOUTHERN CALIFORNIA GAS COMPANY
DAYTIME PH: (800) 423-1391
24-HOUR EMERGENCY: (800) 423-1391

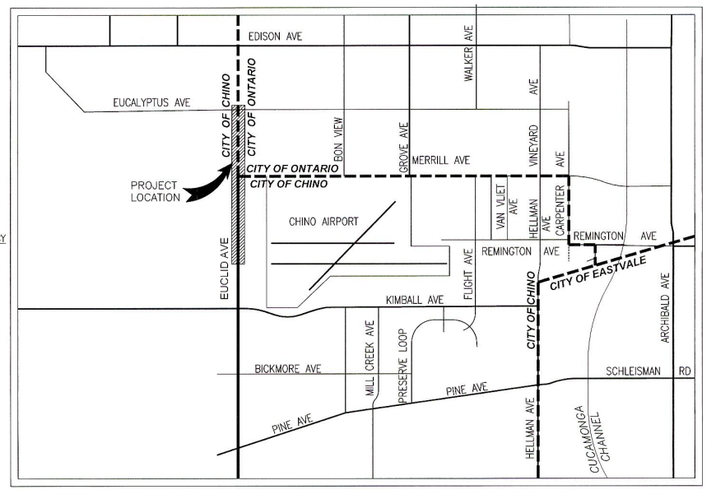
TIME WARNER CABLE / WEST COAST COMMUNICATIONS
24-HOUR EMERGENCY: (888) 892-2253

VERIZON
24-HOUR EMERGENCY: (800) 483-2000

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOTS 1, 2, 3, 16, 17, 18, 19, 20, 21, 34, 35 AND 36 IN SECTION 19, TOWNSHIP 2 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO MAP OF SUBDIVISION OF PART OF THE RANCHO SANTA ANA DEL CHINO, RECORDED IN BOOK 6, PAGE 15 OF MAPS, RECORDS OF SAID COUNTY.



VICINITY MAP

N.T.S.

INDEX OF DRAWINGS

INDEX NO.	DESCRIPTION
SHEET 1	TITLE SHEET
SHEET 2	SHEET INDEX AND TYPICAL SECTIONS
SHEET 3	EUCLID AVENUE - FROM MERRILL AVE TO 912' NORTH OF MERRILL AVE
SHEET 4	EUCLID AVENUE - FROM 912' TO 1812' NORTH OF MERRILL AVE
SHEET 5	EUCLID AVENUE - FROM 1812' NORTH OF MERRILL AVE TO EUCALYPTUS AVE
SHEET 6	EUCLID AVENUE - FROM 2171' TO 3071' NORTH OF KIMBALL AVE
SHEET 7	EUCLID AVENUE - FROM 3071' NORTH OF KIMBALL AVE TO 1310' SOUTH OF MERRILL AVE
SHEET 8	EUCLID AVENUE - FROM 1310' TO 590' SOUTH OF MERRILL AVE
SHEET 9	EUCLID AVENUE - FROM 590' SOUTH OF MERRILL AVE TO MERRILL AVE
SHEET 10	CDS & UTILITY CROSSING DETAILS
SHEET 11-21	DETAILS

OWNER/DEVELOPER:

REDA
4100 MACARTHUR, SUITE 120
NEWPORT BEACH, CA 92660

CONTACT: JEFF JOHNSTON
PHONE: (949) 945-6809
EMAIL: JJOHNSTON@REDALLC.COM

CIVIL ENGINEER

WESTLAND GROUP INC.
4150 CONCOURS STREET, SUITE 100
ONTARIO, CA 91764

CONTACT: SIARA R. MACKINNEY, P.E.
PHONE: (909)-403-5647

GEOTECHNICAL ENGINEER:

SOUTHERN CALIFORNIA GEOTECHNICAL
22885 EAST SAVI RANCH PARKWAY, SUITE E
YORBA LINDA, CA 92887

CONTACT: GREGORY K. MITCHELL
PHONE: (714) 685-1115

REFERENCE DRAWINGS

DESCRIPTION	REFERENCE
PROPOSED 8" RECYCLED WATER AT EUCLID AVE	PM 20016 RECYCLED WATER IMPROVEMENT
PROPOSED 16" DOMESTIC WATER AT EUCLID AVE	PM 20016 DOMESTIC WATER IMPROVEMENT PLAN
PROPOSED 36" SEWER AT EUCLID AVE	M-1219 SEWER IMPROVEMENT PLANS
PROPOSED 20" SEWER AT EUCLID AVE	PM 20016 SEWER IMPROVEMENT PLAN

HYDROLOGY LEGEND

Q_{ULT-O} = PEAK FLOW RATE BASED ON THE CITY OF ONTARIO MPD
Q_{ULT-C} = PEAK FLOW RATE BASED ON THE CITY OF CHINO MASTER PLAN UPDATE.
NOTE:
THE CITY OF ONTARIO Q_{ULT-O}=2234.5 FT³/S COMPARED TO THE CITY OF CHINO Q_{ULT-C}=2196.2 FT³/S.

$Q_{INTERIM}$ = PEAK FLOW RATE BASED ON CURRENT LAND COVER.

NOTE:
THE CITY OF ONTARIO $Q_{INTERIM}$=900.1 FT³/S COMPARED TO THE CITY OF CHINO $Q_{INTERIM}$=1142.7 FT³/S.

H_{ULT-O} BASED ON CITY OF ONTARIO Q_{ULT}
H_{ULT-C} BASED ON CITY OF CHINO Q_{ULT}
$H_{INTERIM}$ BASED ON CITY OF CHINO $Q_{INTERIM}$= 1142.7 FT³/S.

$V_{ULT-100}$ = FOUND USING $Q_{ULT-100}$
$V_{INT-100}$ = FOUND USING $Q_{INT-100}$

CIVIL ENGINEERS NOTICE TO CONTRACTOR

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF MY KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTION AND ANY MEASURES TO PROTECT THE UTILITIES AND STRUCTURES SHOWN AND OTHER LINES OR STRUCTURES NOT OF RECORD OR NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO, THESE UTILITY LINES OR STRUCTURES.
2. THE CONTRACTOR AGREES THAT HE WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY AND NOT BE LIMITED TO A NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER, OR ANY PUBLIC AGENCY.
3. THE ESTIMATES OF IMPROVEMENT QUANTITIES AS SHOWN HEREON ARE PROVIDED ONLY FOR THE PURPOSE OF SATISFYING DISTRICT PLAN INFORMATION REQUIREMENTS. THE CONTRACTOR SHALL PERFORM AN INDEPENDENT ESTIMATE OF ALL IMPROVEMENT QUANTITIES AND SHALL USE SAME AS A BASIS FOR HIS BID(S) AND CONTRACT(S).
4. CONTRACTOR TO VERIFY CLEARANCE AT ALL UTILITY CROSSINGS. IF INTERFERENCE OCCURS, OTHER THAN NOTED ON PLAN, CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER FOR POSSIBLE REDESIGN. IF REDESIGN IS NOT FEASIBLE, CONTRACTOR TO RELOCATE UTILITY AT NO EXPENSE TO ENGINEER.
5. CONTRACTOR SHALL TAKE EXTREME CARE DURING STORM DRAIN CONSTRUCTION AND IS RESPONSIBLE FOR TRENCHING AND SHORING. CONTRACTOR SHALL SUBMIT A DETAILED SHORING PLAN PER SECTION 7-10.4.2.2 OF SPPWC AND A PERMIT FROM STATE DIVISION OF INDUSTRIAL SAFETY PRIOR TO COMMENCING WORK.
6. CONTRACTOR SHALL VERIFY PAVEMENT ELEVATION AT RIM PRIOR TO SETTING CONE.

CONSTRUCTION NOTES

ITEM	DESCRIPTION	QUANTITY	
1	CONSTRUCT 108" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	2531	LF
2	CONSTRUCT 102" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	174	LF
3	CONSTRUCT 90" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	101	LF
4	CONSTRUCT 2-24" TEMPORARY HDPE PIPE. BEDDING & BACKFILL PER DETAIL 4 ON SHEET 11, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET ON 20	5550	LF
5	CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 320-2, DETAIL ON SHEET 20	5	EA
6	CONSTRUCT 30" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	38	LF
7	CONSTRUCT PRECAST DBL 10'x10' RCB PER CALTRANS STD D83A & D83B, ALTERNATIVE TO CONSTRUCT CAST-IN-PLACE 10'X10'- WITH SLOPED INVERT RCB PER CALTRANS STD. D81 & D82. BEDDING & BACKFILL PER CALTRANS STD. A62G, DETAILS ON SHEETS 13-18 TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET 20	600	LF
8	CONSTRUCT PRECAST 9.5'x9.5' RCB PER CALTRANS STD D83A & D83B, ALTERNATIVE TO CONSTRUCT CAST-IN-PLACE 9.5'X9.5' INCLUDE V INVERT RCB PER CALTRANS STD. D80. BEDDING & BACKFILL PER CALTRANS STD. A62G, DETAILS ON SHEETS 14, 15, 17 AND 19 TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET 20	56	LF
9	CONSTRUCT TRANSITION STRUCTURE PIPE TO PIPE PER SPPWC STD. 340-2, DETAIL ON SHEET 14	1	EA
10	CONSTRUCT TRANSITION STRUCTURE SINGLE RCB TO DOUBLE RCB PER SPPWC STD. 343-2, DETAIL ON SHEET 12	1	EA
11	CONSTRUCT 36" STORM DRAIN MANHOLE SHAFT WITHOUT REDUCER PER SPPWC STD. 326-2, DETAIL ON SHEET 11	5	EA
12	CONSTRUCT CATCH BASIN NO. 2 PER CITY OF ONTARIO STD. DWG. NO. 3003 & 3015, "W" AND "V" PER PLAN	4	EA
13	CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. NO. 3005, REFER TO PERMIT PM 20016 STREET IMPROVEMENT PLANS FOR DETAILS.	4	EA
14	CONSTRUCT BRICK & MORTAR BULKHEAD PER DETAIL 14 ON SHEET 11	3	EA
15	CONSTRUCT RCB WINDOW PER SPPWC STD 382-2, DETAIL ON SHEET 21	1	EA
16	CONSTRUCT RCB STAND PIPE OUTLET RISER PER DETAIL16 ON SHEET 11	36	EA
17	CONSTRUCT 12" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	260	LF
18	INSTALL TEMPORARY CONCRETE BOTTOM TO CATCH BASIN, PER DETAIL 18 ON SHEET 11	4	EA
19	CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 321-2, DETAIL ON SHEET 16	10	EA
20	CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11	4	EA
21	INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO RIVER" OR EQUIVALENT	4	EA
22	CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 331-3, DETAIL ON SHEET 15	6	EA
23	CONSTRUCT JUNCTION STRUCTURE PIPE TO RCB PER SPPWC STD. 333-2, DETAIL ON SHEET 13	1	EA
24	CONSTRUCT RIP-RAP PER SAN DIEGO REGIONAL STD. DWG. D-40 DETAIL ON SHEET 12	60	CY
25	CONSTRUCT ENDWALL PER DETAIL 25 ON SHEET 18	1	EA
26	CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 19	9	EA
27	CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2, DETAIL ON SHEET 12	4	EA
28	CONSTRUCT PRESSURE MANHOLE SHAFT AND PRESSURE PLATE, PER SPPWC 329-2, DETAIL ON SHEET 17	10	EA
29	CONSTRUCT 24" TEMPORARY HDPE 45° BEND	4	EA
30	CONSTRUCT 12" RCP CONCRETE COLLAR PER SPPWC STD. 380-4, DETAIL ON SHEET 21	1	EA
31	CONSTRUCT CDS UNIT, SIZE PER PLAN PER DETAIL 31 ON SHEET 21	3	EA
32	CONSTRUCT 24" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	20	LF
33	INSTALL SURVEY MONITORING POINTS AND SETTLEMENT ROD PER CALTRANS TR-0151 AND TR-0152 ON SHEET 18	2	EA

LEGEND OF ABBREVIATIONS

BC	BEGIN CURVE	LT	LEFT
BCR	BEGIN CURB RETURN	LP	LOW POINT
BNDY	BOUNDARY	MIN	MINIMUM
C+G	CURB AND GUTTER	PCC	POINT OF COMPOUND CURVE
CB	CATCH BASIN	℄ OR P/L OR PL	PROPERTY LINE
CFS	CUBIC FEET PER SECOND	PRC	POINT OF REVERSE CURVE
℄ OR C/L OR CL	CENTERLINE	PVC	POLYVINYL CHLORIDE
DBL	DOUBLE	RCB	REINFORCED CONCRETE BOX
DW	DOMESTIC WATER	RCP	REINFORCED CONCRETE PIPE
EC	END CURVE	RT	RIGHT
ECR	END CURB RETURN	RW	RECYCLED WATER
EP	EDGE OF PAVEMENT	R/W	RIGHT OF WAY
ESMT	EASEMENT	SD	STORM DRAIN
EX, EXIST.	EXISTING	SL	STREET LIGHT
FH	FIRE HYDRANT	SP	STAND PIPE (RCP)
FL	FLOW LINE	SS	SANITARY SEWER
FS	FINISHED SURFACE	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
FT/S	FEET PER SECOND	STA	STATION
GB	GRADE BREAK	TC	TOP OF CURB
HDPE	HIGH DENSITY POLY ETHYLENE	TYP	TYPICAL
HP	HIGH POINT	ULT	ULTIMATE
INT	INTERIM		
INV	INVERT		

LEGEND OF SYMBOLS

EXISTING CONTOURS
PROP. CONTOUR
EXIST. EASEMENT
FLOW RATE
CENTERLINE
FIRE HYDRANT
SIGN
PROPOSED STORM DRAIN MH
PROPOSED CATCH BASIN
PROPOSED STORM DRAIN
BOUNDARY LINE
FENCE LINE
STREET LIGHT

811 Know what's below. Call 811 before you dig.

RECOMMENDED FOR ACCEPTANCE
TECK, C. LOH, P.E.
HARRIS AND ASSOCIATES — DATE 7/13/2022

CITY OF CHINO
RECOMMENDED BY: CITY ENGINEER — DATE 8/8/2022

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO
RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/26/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/28/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA ROSE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. — Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. 85559 R.C.E. NO. — DATE 6/22/22

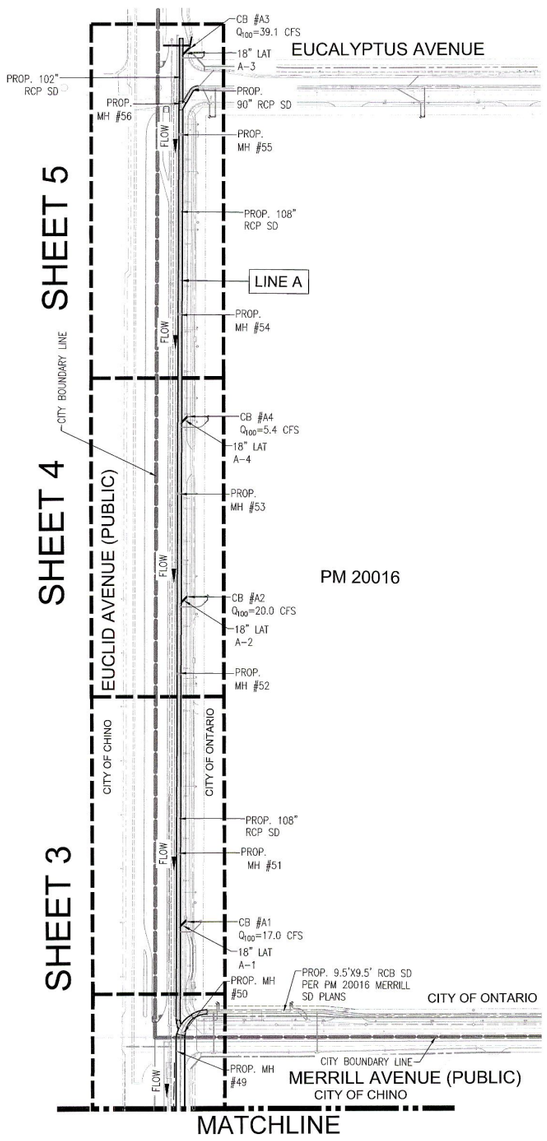
STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
TITLE SHEET

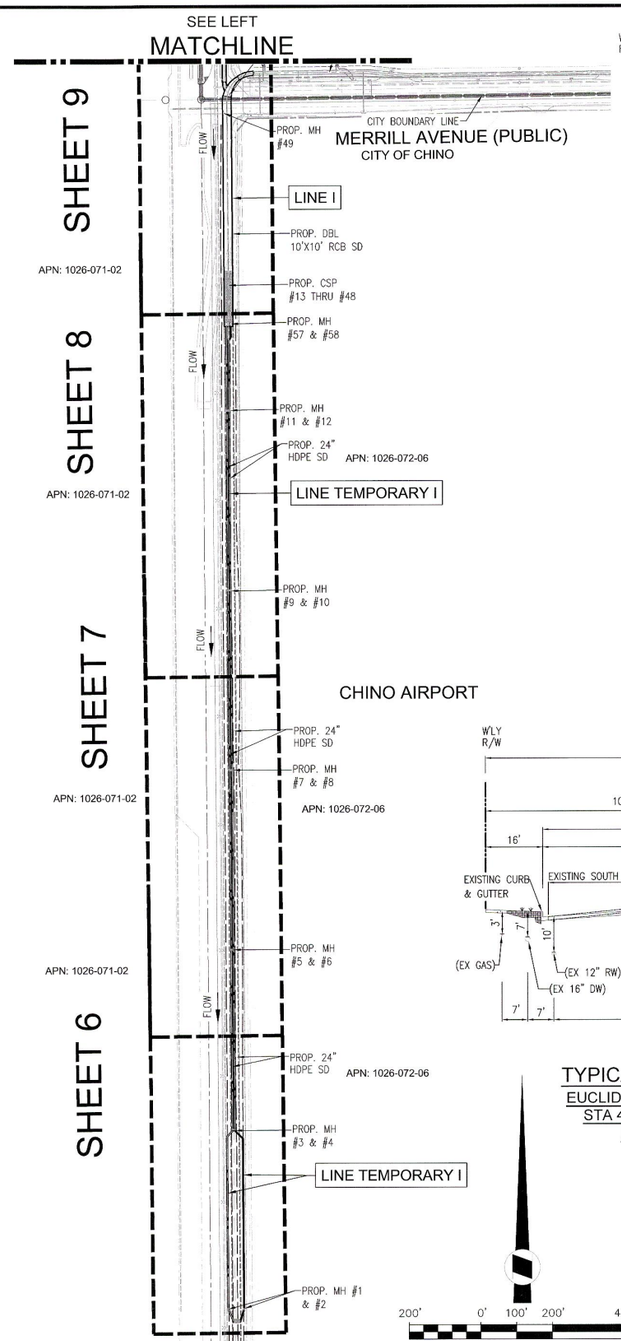
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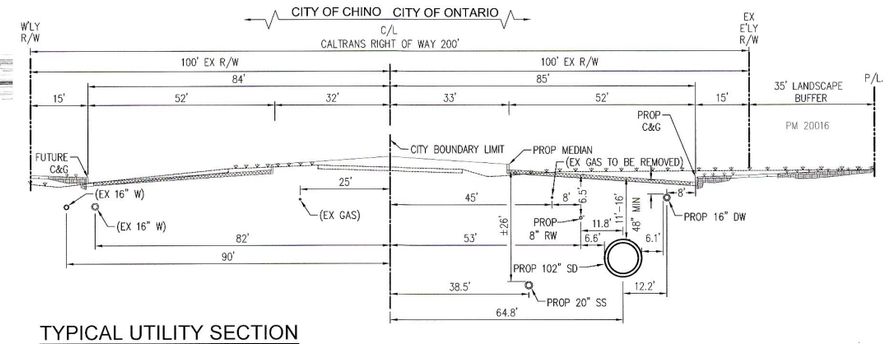
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06/16/2022

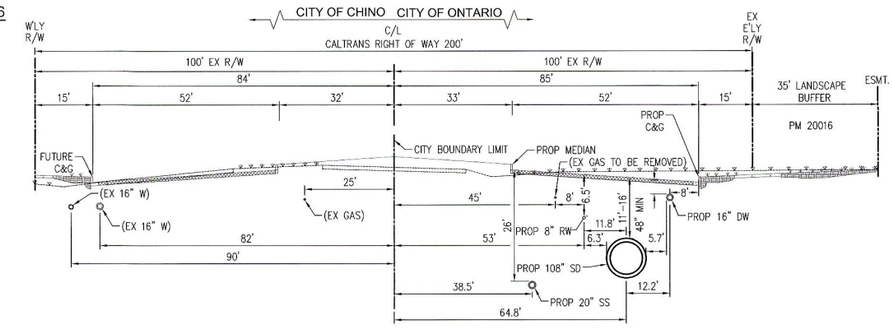
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Last Opened: Jun 16, 2022 - 3:14pm by: Brent.King



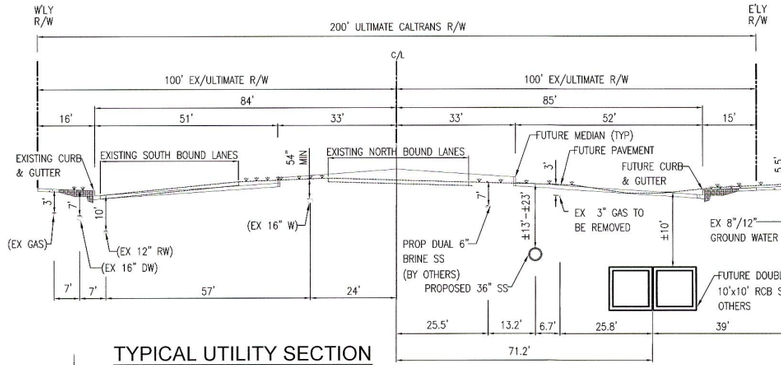




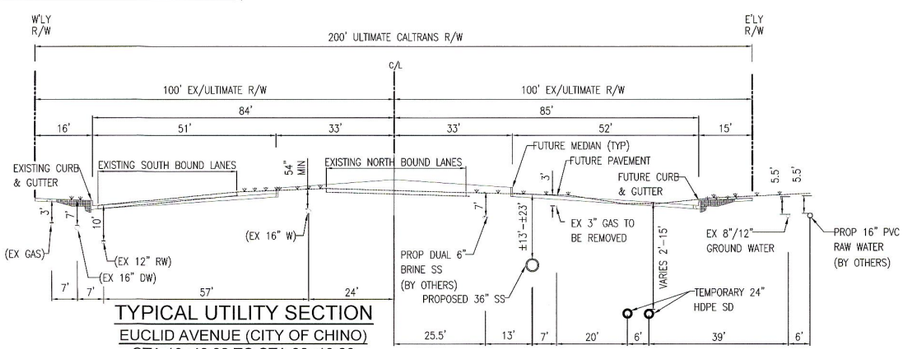
TYPICAL UTILITY SECTION
EUCLID AVENUE
STA 35+87.99 TO STA 37+62.56
LINE A STATIONING
N.T.S.



TYPICAL UTILITY SECTION
EUCLID AVENUE
STA 10+33.24 TO STA 35+64.75
LINE A STATIONING
N.T.S.



TYPICAL UTILITY SECTION
EUCLID AVENUE (CITY OF CHINO)
STA 4+04.72 TO STA 10+03.77
LINE I STATIONING
N.T.S.



TYPICAL UTILITY SECTION
EUCLID AVENUE (CITY OF CHINO)
STA 10+46.32 TO STA 38+19.29
LINE TEMPORARY I STATIONING
N.T.S.

SHEET INDEX/SYSTEM MAP

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — 7/19/22 DATE
ACCEPTED BY: KHOI DO, P.E. CITY ENGINEER — 7/19/22 DATE

CITY OF CHINO

RECOMMENDED BY: CITY ENGINEER — 8/8/22 DATE

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1," SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF EOR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA REBE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE

SHEET INDEX AND TYPICAL SECTIONS

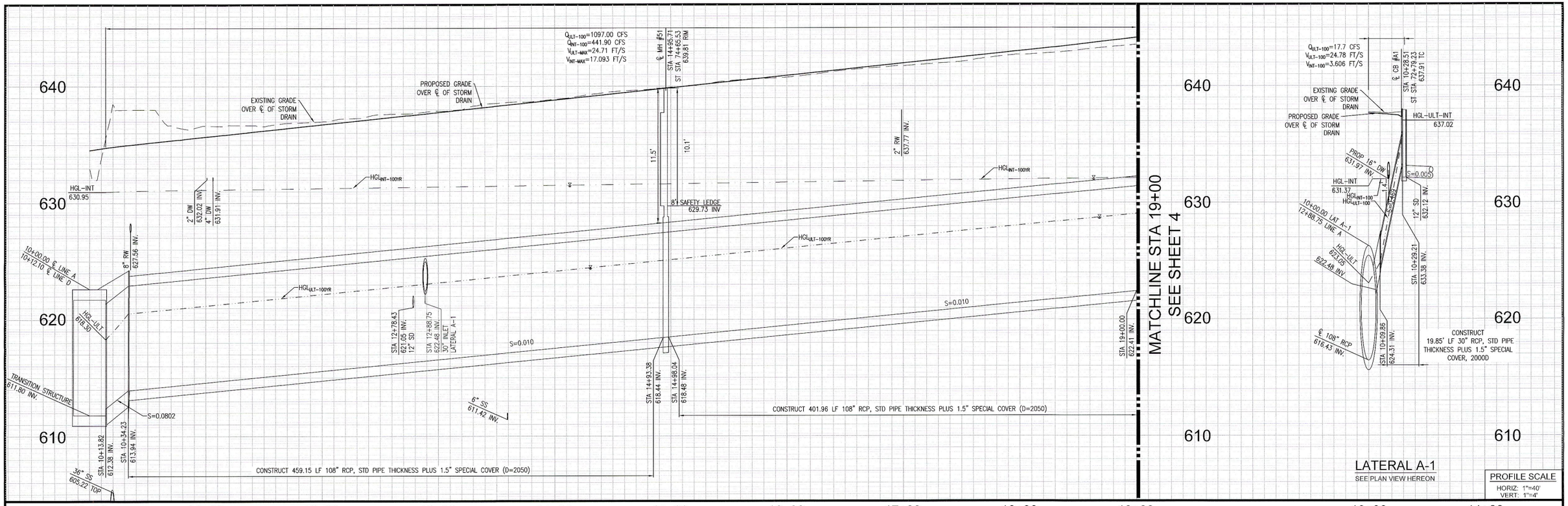
CALTRANS # 08-22-6-UT-0007

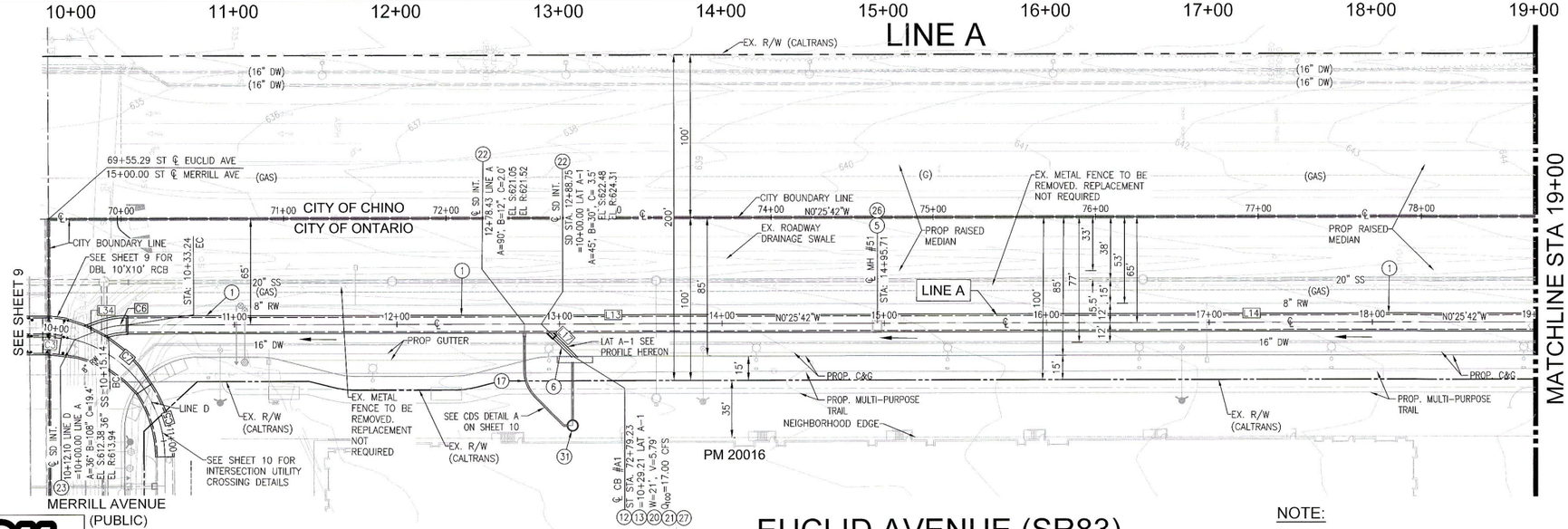
PM-20016

SHEET 2 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

06/03/2022

Drawing Name: P:\Year_2020\2020-015 RDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\02_2020-015_SD-USM.dwg
Last Opened: Jun 03, 2022 - 3:46pm by: BrentKing





CONSTRUCTION NOTES

1. CONSTRUCT 108" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
5. CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 320-2, DETAIL ON SHEET 20
6. CONSTRUCT 30" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
12. CONSTRUCT CATCH BASIN NO. 2 PER CITY OF ONTARIO STD. DWG. NO. 3003 & 3015, "W" AND "V" PER PLAN
13. CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. NO. 3005, REFER TO PERMIT PM 20016 STREET IMPROVEMENT PLANS FOR DETAILS.
17. CONSTRUCT 12" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
20. CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11
21. INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO RIVER" OR EQUIVALENT
22. CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 331-3, DETAIL ON SHEET 15
23. CONSTRUCT JUNCTION STRUCTURE PIPE TO RCB PER SPPWC STD. 333-2, DETAIL ON SHEET 13
26. CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 19
27. CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2, DETAIL ON SHEET 12
31. CONSTRUCT CDS UNIT, SIZE PER PLAN PER DETAIL 31 ON SHEET 21

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
C5	033°39'48.2"	44.07'	75.00'	22.69
C6	020°49'26.7"	16.36'	45.00'	8.27
C7	047°22'56.9"	62.02'	75.00'	32.91
L13	N0°25'42"W	460.14'		
L14	N0°25'42"W	495.34'		
L17	N44°34'18"E	17.93'		

NOTE:

- CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ON SITE PROPERTY OWNER PER WQMP MANAGEMENT AGREEMENT
- NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

LEGEND

STORM DRAIN FLOW DIRECTION

40' 0' 20' 40' 80'

SCALE: 1" = 40'

811 Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/28/22

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/28/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF EGR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER SIARA ROSE MACKINNEY No.85559 Exp. 9/30/2022 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. 85559 R.C.E. NO. 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE

FROM MERRILL AVE TO 912' NORTH OF MERRILL AVE

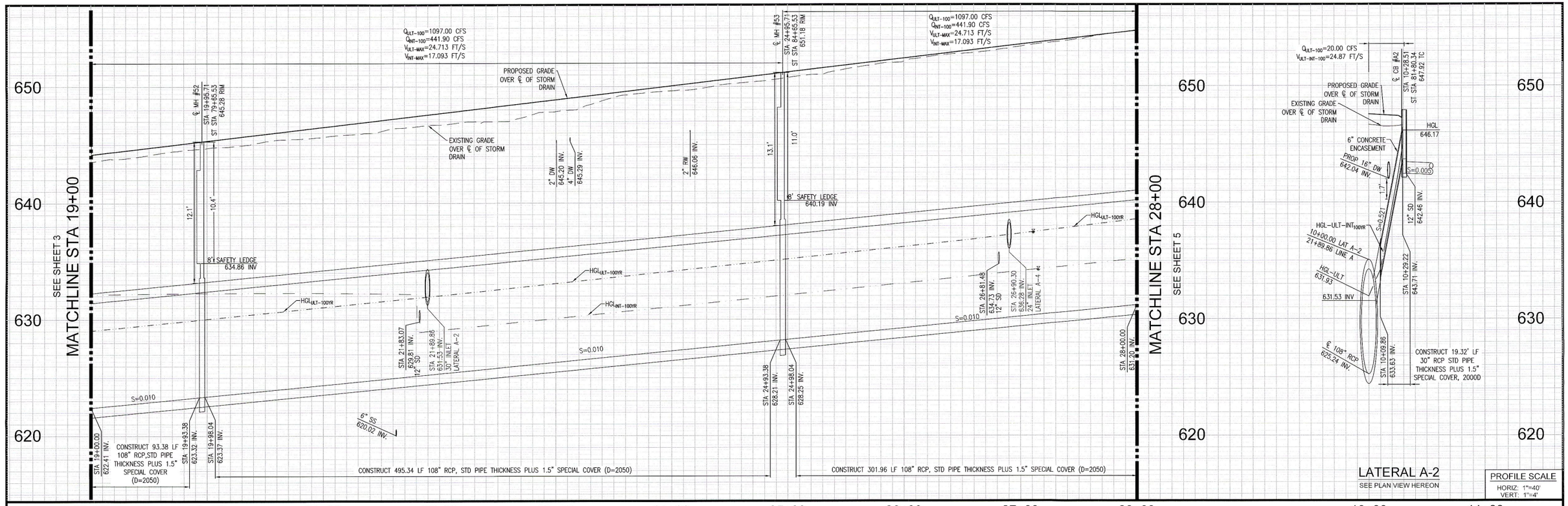
CALTRANS # 08-22-6-UT-0007

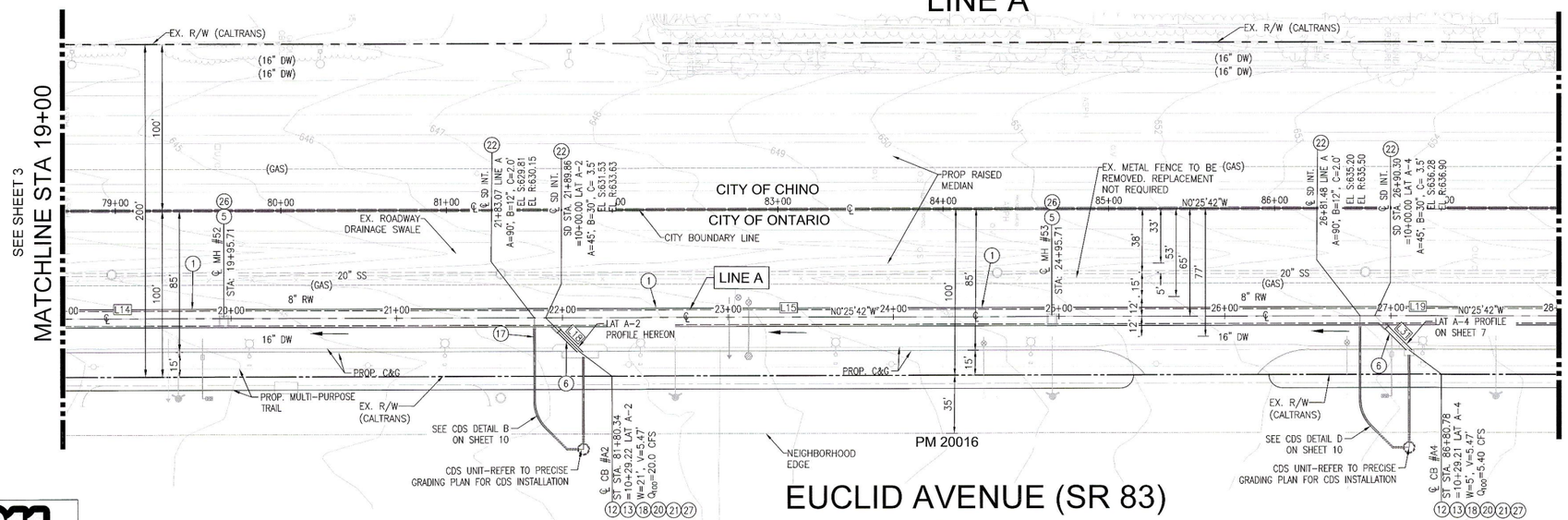
PM-20016

SHEET 3 OF 21
CONTRACT
ACCOUNT
DWG. NO. D14487
AA 5949 SD

06/16/2022

Drawing Name: P:\Yep-2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\03_2020-015_SD-PP.dwg
Last Opened: Jun 16, 2022 - 2:49pm by: BrentKing





CONSTRUCTION NOTES

1. CONSTRUCT 108" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
5. CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 320-2, DETAIL ON SHEET 20
6. CONSTRUCT 30" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
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13. CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. NO. 3005, REFER TO PERMIT PM 20016 STREET IMPROVEMENT PLANS FOR DETAILS.
17. CONSTRUCT 12" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
18. INSTALL TEMPORARY CONCRETE BOTTOM TO CATCH BASIN, PER DETAIL 18 ON SHEET 11
20. CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11
21. INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO RIVER" OR EQUIVALENT
22. CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 331-3, DETAIL ON SHEET 15
26. CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 19
27. CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2, DETAIL ON SHEET 12

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L14	N0°25'42"W	495.34'		
L15	N0°25'42"W	495.34'		
L18	N44°33'24"E	17.94'		
L19	N0°25'42"W	495.34'		
L31	N44°33'51"E	19.37'		

NOTE:

- WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED.
- CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ON SITE PROPERTY OWNER PER WQMP MANAGEMENT AGREEMENT
- NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

LEGEND

STORM DRAIN FLOW DIRECTION

40' 0' 20' 40' 80'

SCALE: 1" = 40'

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/8/22
ACCEPTED BY: KHOI DO, P.E. CITY ENGINEER — DATE 7/12/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF EGR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA ROSE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE

FROM 912' TO 1812' NORTH OF MERRILL AVE

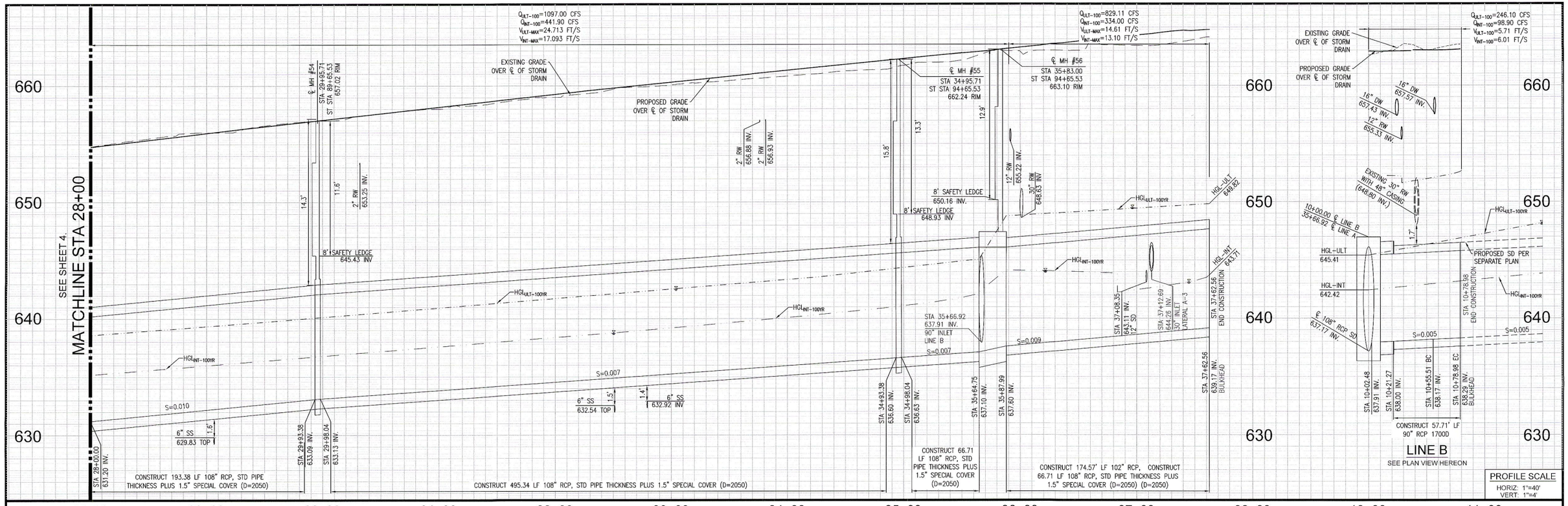
CALTRANS # 08-22-6-UT-0007

PM-20016

SHEET 4 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 59449 SD

06/16/2022

Drawing Name: P:\Eng\2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\04_2020-015_SD-PP.dwg
Last Opened: Jun 16, 2022 - 2:25pm by: BrentKing



STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
C4	059°45'58.3"	23.47'	22.50'	12.93
L16	N0°25'42"W	174.57'		
L19	N0°25'42"W	495.34'		
L21	N0°25'42"W	28.79'		

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L22	N29°32'41"E	55.51'		
L27	N0°25'42"W	495.34'		
L28	N0°25'42"W	66.72'		
L33	N44°34'18"E	20.20'		

NOTE:
- WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED.
- CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ON SITE PROPERTY OWNER PER WQMP MANAGEMENT AGREEMENT
- NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

811 Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRIAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/28/22

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/28/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER SIARA REE MACKINNEY No.85559 Exp. 9/30/2022 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE

FROM 1812' NORTH OF MERRILL AVE TO EUCALYPTUS AVE

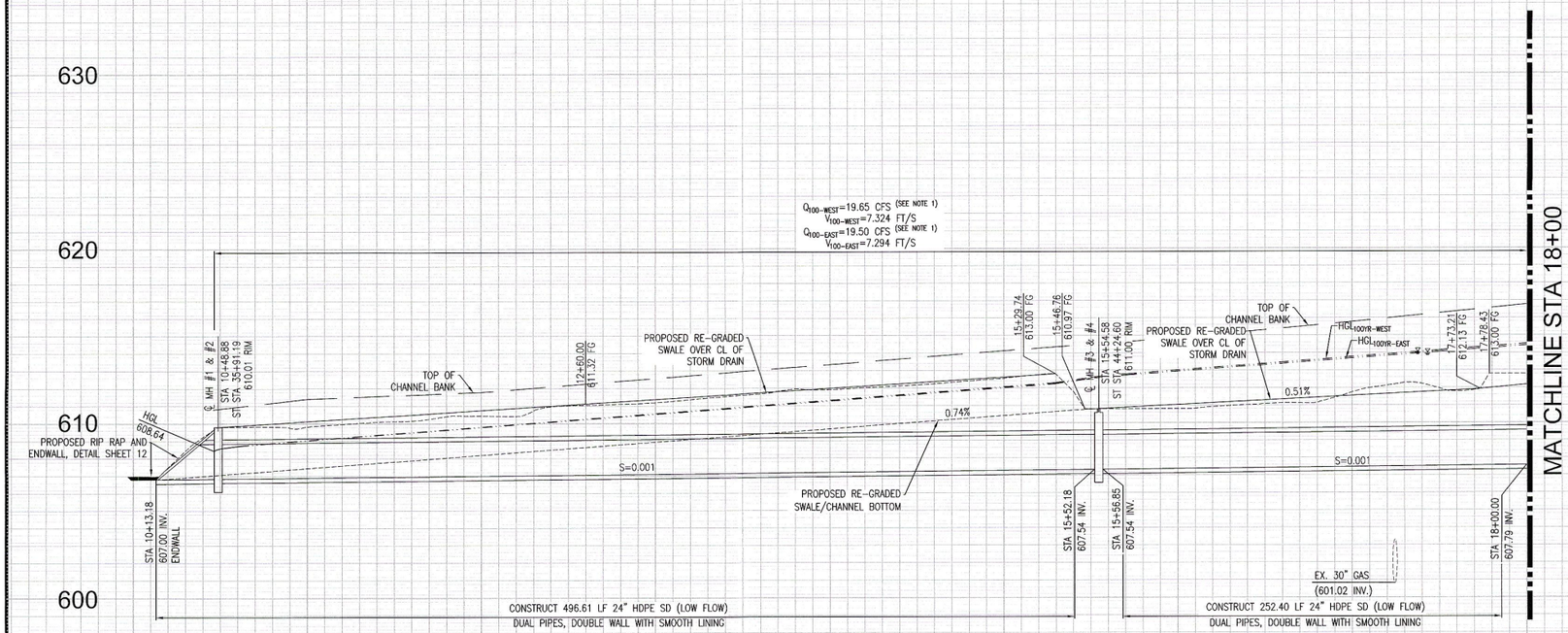
CALTRANS # 08-22-6-UT-0007

PM-20016

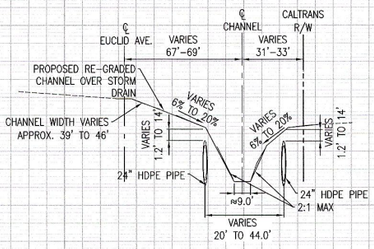
SHEET 5 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 3D

06/16/2022

Drawing Name: P:\PROJECTS\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\05_2020-015_3D-PP.dwg
Last Opened: Jun 16, 2022 - 5:03pm by: BenKuang

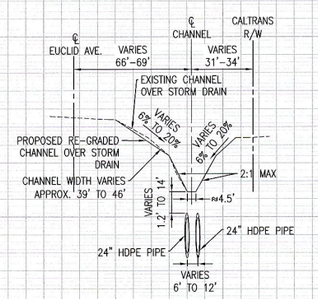


NOTE 1: THE 39 CFS IS BASED ON THE MAXIMUM FLOW RATE THAT CAN BE CONVEYED BY THE DOUBLE 24-INCH STORM DRAIN SYSTEM; THE 39 CFS IN AN INTERIM CONDITION UNTIL SUCH TIME ULTIMATE LINE "I" IS CONSTRUCTED WITHIN THE CITY OF CHINO.



TYPICAL CROSS SECTION

STA: 10+13.18 TO STA: 15+54.58



TYPICAL CROSS SECTION

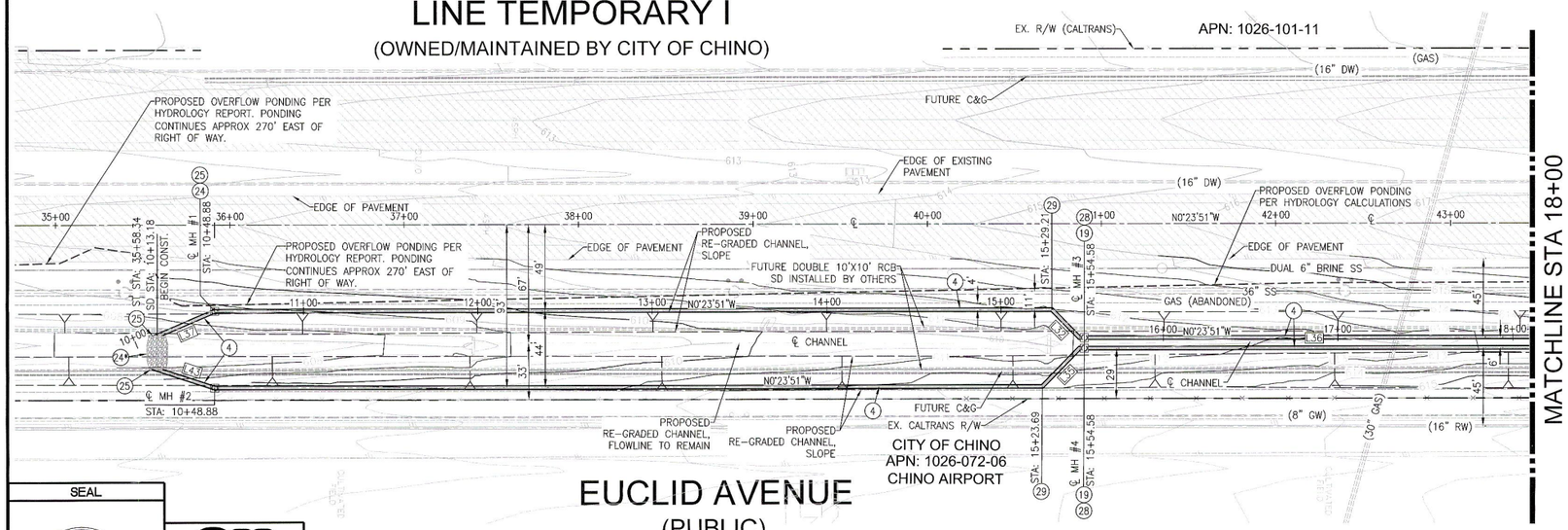
STA: 15+54.58 TO STA: 38+28.61

PROFILE SCALE
HORIZ: 1"=40'
VERT: 1"=4'

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00

LINE TEMPORARY I

(OWNED/MAINTAINED BY CITY OF CHINO)



EUCLID AVENUE

(PUBLIC)

CONSTRUCTION NOTES

(4) CONSTRUCT 2-24" TEMPORARY HDPE PIPE. BEDDING & BACKFILL PER DETAIL 4 ON SHEET 11, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET ON 20

(19) CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 321-2, DETAIL ON SHEET 16

(24) CONSTRUCT RIP-RAP PER SAN DIEGO REGIONAL STD. DWG. D-40 DETAIL ON SHEET 12

(25) CONSTRUCT ENDWALL PER DETAIL 25 ON SHEET 18

(28) CONSTRUCT PRESSURE MANHOLE SHAFT AND PRESSURE PLATE, PER SPPWC 329-2, DETAIL ON SHEET 17

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L32	S45°02'17"W	22.61'		
L35	S45°50'14"E	30.52'		
L36	N0°23'51"W	495.89'		
L37	S23°25'44"E	35.70'		
L43	N17°41'12"E	29.81'		

SEAL

REGISTERED PROFESSIONAL ENGINEER — JOHN REE MOTAMED — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

6/22/22

811 Know what's below. Call 811 before you dig.

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/20/22

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER for — DATE 7/19/22

PAVEMENT LEGEND

EXISTING AC PAVEMENT TO REMAIN

* PROPOSED RIP RAP SHALL BE ½ TON ROCK WITH FOLLOWING GRADATION
½ TON – 0 TO 5% PASSING
200 LB – 50 TO 100% PASSING
75 LB – 90 TO 100% PASSING

NOTE:
NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

LEGEND

STORM DRAIN FLOW DIRECTION

40' 0' 20' 40' 80'
SCALE: 1" = 40'

CALTRANS # 08-22-6-UT-0007

PREPARED BY	REVISIONS	MADE BY	MADE DATE	RECOMMENDED BY	RECOMMENDED DATE	BENCH MARK DATA
FIRM: WESTLAND GROUP, INC.						BENCH MARK No. GG-18-1
ADDRESS: 4150 CONCOURS, ONTARIO, CA 91764						ELEV. 635.314' (NAVD '88) LEVELED 2018
TELEPHONE: (909) 989-9789 FAX: (909) 989-9660						LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.
SIGNATURE RCE 85559 DATE						

REFERENCE DRAWINGS	REVIEWED BY STAFF	BY	DATE
	WATER:		
	SEWER:		
	FIRE:		
	PLANNING:		
	TRAFFIC:		
	ENVIRONMENTAL:		

CITY ENGINEER'S STAFF	BY	DATE
DRAWN:		
DESIGNED:		
CHECKED:		
RECOMMENDED:		

RECOMMENDED BY:
CITY ENGINEER
DATE: 8/8/22

CITY OF CHINO ENGINEERING DIVISION

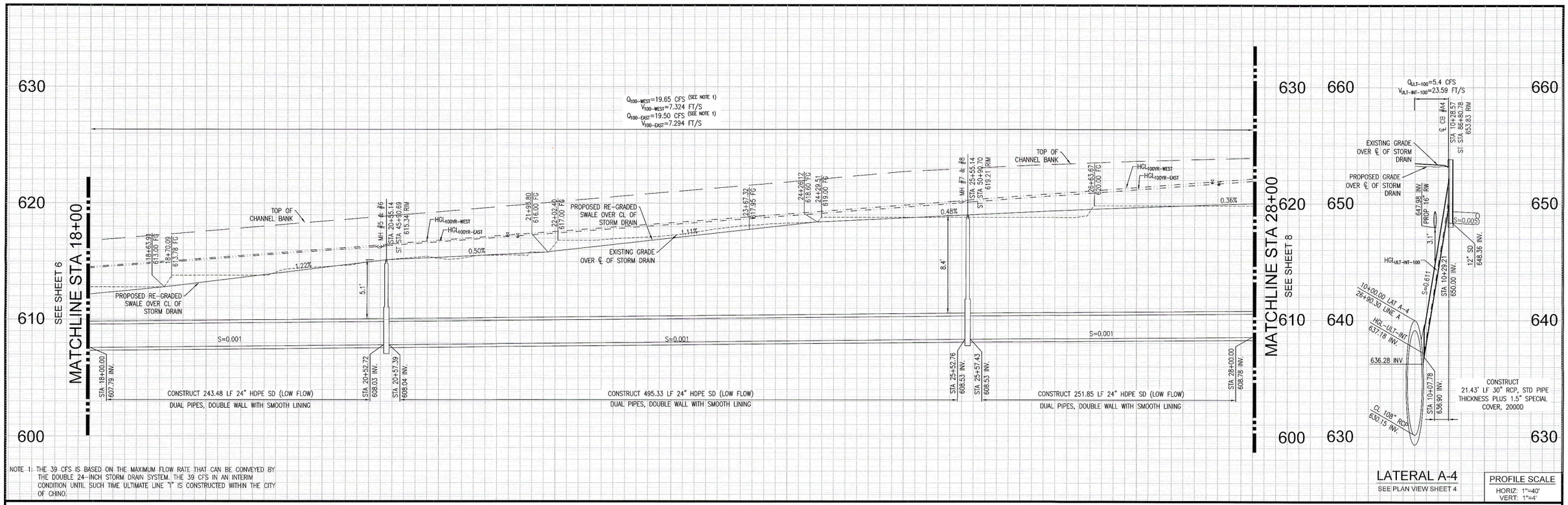
STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE
FROM 2171' TO 3071' NORTH OF KIMBALL AVE

PROJECT NO. PM-20016
SHEET 6 OF 21
DRAWING NO. AA 5940 SD D14990

06/08/2022

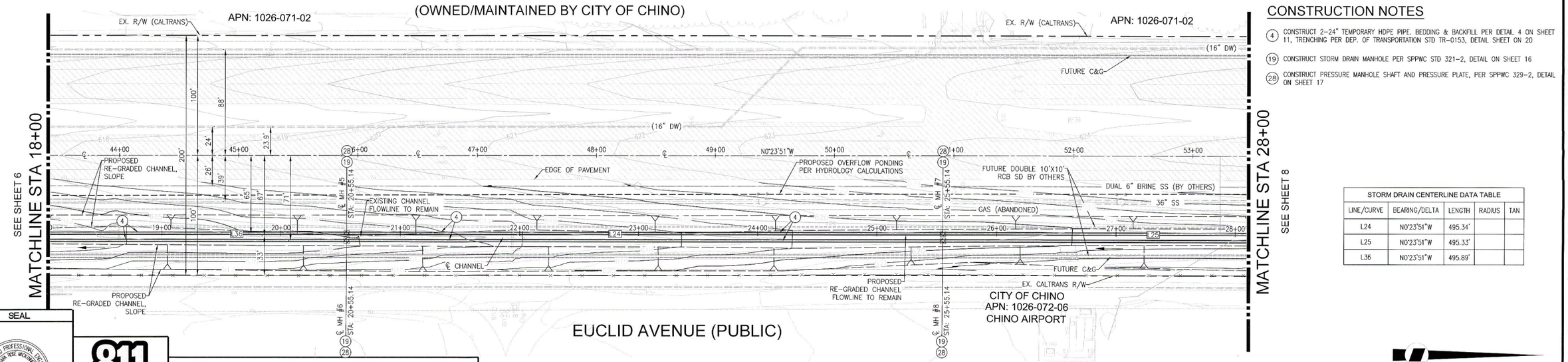
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Last Opened: Jun 08, 2022 - 2:32pm By: BrentLong



NOTE 1: THE 39 CFS IS BASED ON THE MAXIMUM FLOW RATE THAT CAN BE CONVEYED BY THE DOUBLE 24-INCH STORM DRAIN SYSTEM. THE 39 CFS IN AN INTERIM CONDITION UNTIL SUCH TIME ULTIMATE LINE "I" IS CONSTRUCTED WITHIN THE CITY OF CHINO.

LINE TEMPORARY I

(OWNED/MAINTAINED BY CITY OF CHINO)



CONSTRUCTION NOTES

(4) CONSTRUCT 2-24" TEMPORARY HDPE PIPE. BEDDING & BACKFILL PER DETAIL 4 ON SHEET 11, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET ON 20

(19) CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 321-2, DETAIL ON SHEET 16

(28) CONSTRUCT PRESSURE MANHOLE SHAFT AND PRESSURE PLATE, PER SPPWC 329-2, DETAIL ON SHEET 17

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L24	N0°23'51"W	495.34'		
L25	N0°23'51"W	495.33'		
L36	N0°23'51"W	495.89'		

PAVEMENT LEGEND

EXISTING AC PAVEMENT TO REMAIN

NOTE:
NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

LEGEND

STORM DRAIN FLOW DIRECTION

40' 0' 20' 40' 80'
SCALE: 1" = 40'

CALTRANS # 08-22-6-UT-0007

SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 85559
Exp. 9/30/2022
CIVIL
STATE OF CALIFORNIA
10/22/22

Know what's below. Call 811 before you dig.

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/28/22

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/28/22

PREPARED BY	REVISIONS	MADE BY	MADE DATE	RECOMMENDED BY	RECOMMENDED DATE	BENCH MARK DATA	REFERENCE DRAWINGS	REVIEWED BY STAFF	BY	DATE	CITY ENGINEER'S STAFF	BY	DATE	RECOMMENDED BY:
FIRM: WESTLAND GROUP, INC.	1					BENCH MARK No. GG-18-1		WATER:			DRAWN:			
ADDRESS: 4150 CONCOURS, ONTARIO, CA 91764	2					ELEV. 635.314' (NAVD '88) LEVELED 2018		SEWER:			DESIGNED:			
TELEPHONE: (909) 989-9789 FAX: (909) 989-9660	3					LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.		FIRE:			PLANNING:			
	4							PLANNING:			CHECKED:			
	5							TRAFFIC:						
SIGNATURE RCE 85559 DATE	6							ENVIRONMENTAL:			RECOMMENDED:			CITY ENGINEER DATE: 8/8/22

CITY OF CHINO ENGINEERING DIVISION

STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE

FROM 3071' NORTH OF KIMBALL AVE TO 1310' SOUTH OF MERRILL AVE

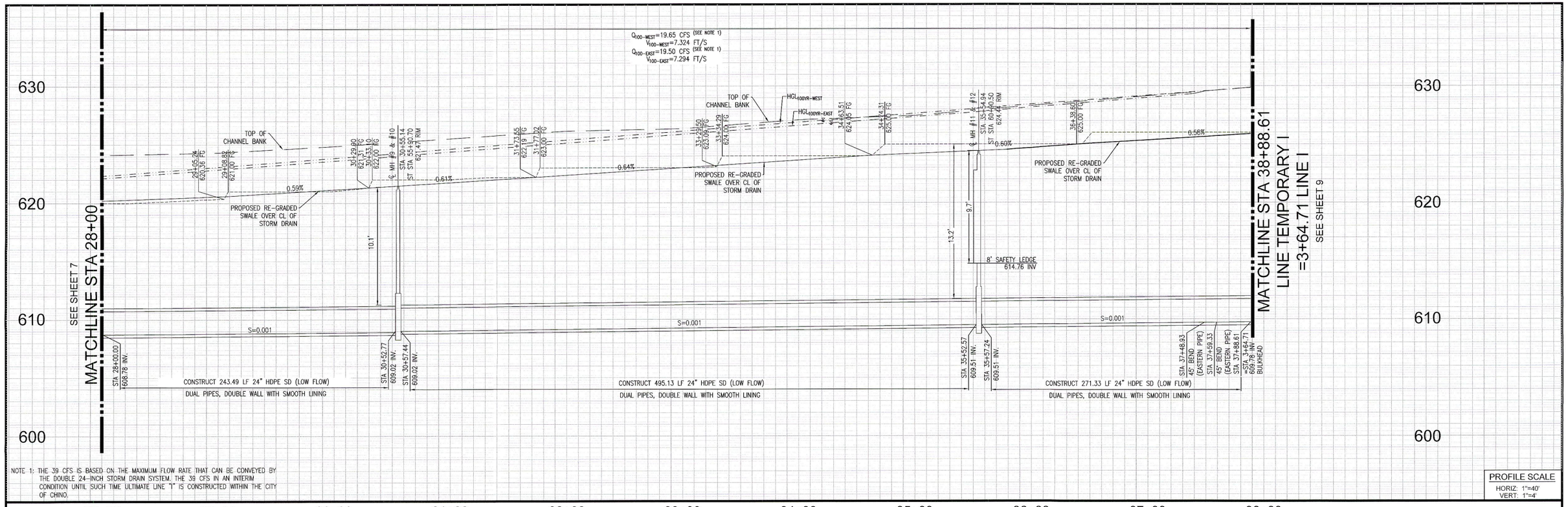
PROJECT NO. PM-20016

SHEET 7 OF 21

DRAWING NO. AA 5949 SD D14-01

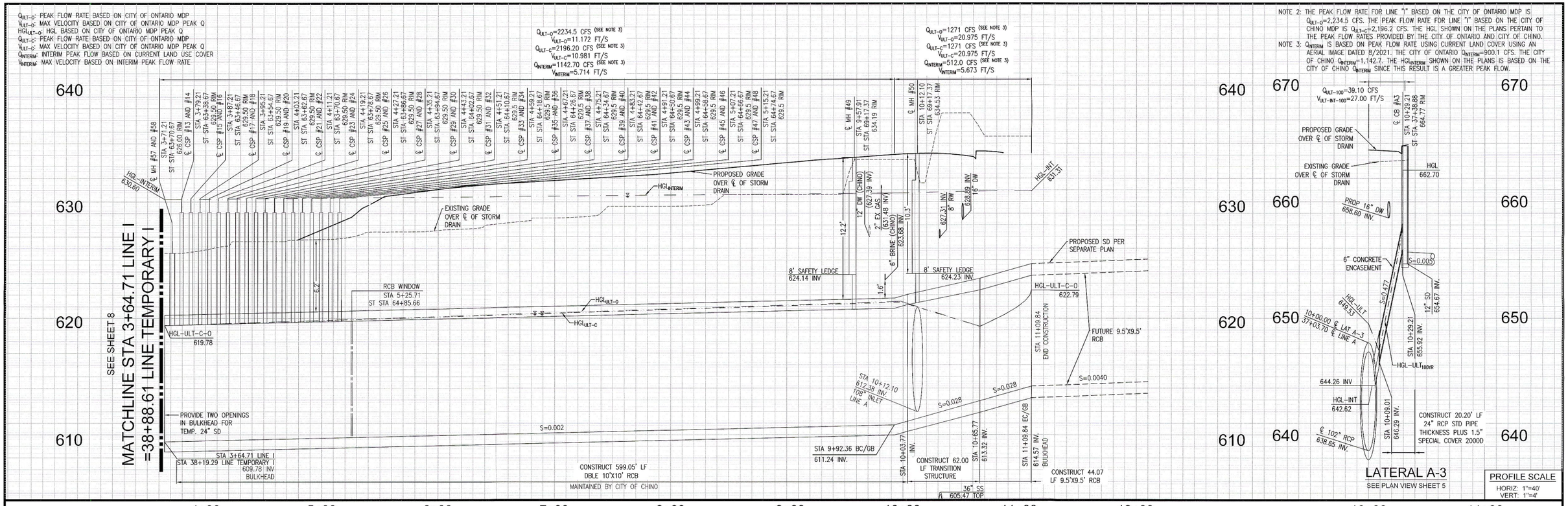
06/16/2022

Drawing Name: P:\Year_2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\06_09_2020-015_SD-PP.dwg
Last Opened: Jun 16, 2022 - 9:03am by: Brent.King

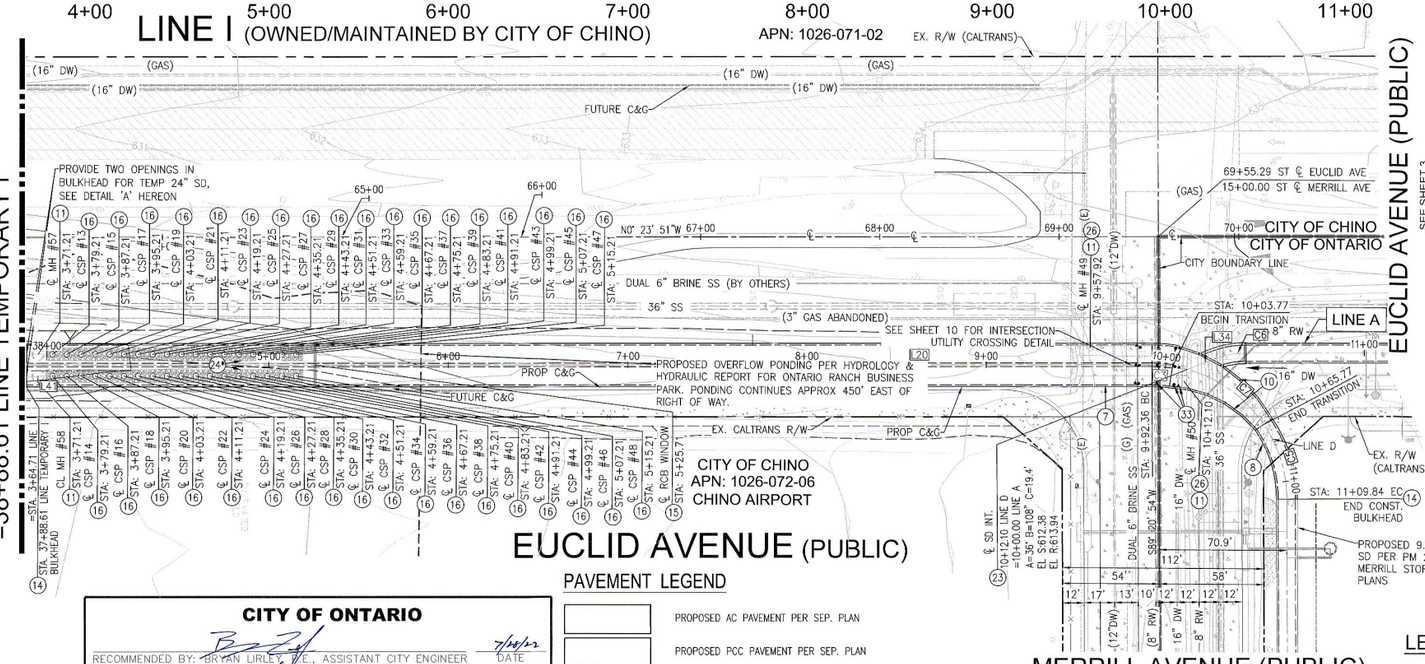

Q100-WEST=19.65 CFS (SEE NOTE 1)
V100-WEST=7.324 FT/S
Q100-EAST=19.50 CFS (SEE NOTE 1)
V100-EAST=7.294 FT/S
630
620
610
600
SEE SHEET 7
MATCHLINE STA 28+00
TOP OF CHANNEL BANK
294+05.24 620.36 FG
294+08.82 621.00 FG
PROPOSED RE-GRADED SWALE OVER CL OF STORM DRAIN
0.59%
0.61%
0.64%
0.60%
0.56%
10.1'
13.2'
9.7'
8" SAFETY LEDGE 614.76 INV
S=0.001
STA 28+00.00 608.78 INV.
STA 30+52.77 609.02 INV.
STA 30+57.44 609.02 INV.
STA 35+52.57 609.51 INV.
STA 35+57.24 609.51 INV.
CONSTRUCT 243.49 LF 24" HDPE SD (LOW FLOW)
DUAL PIPES, DOUBLE WALL WITH SMOOTH LINING
CONSTRUCT 495.13 LF 24" HDPE SD (LOW FLOW)
DUAL PIPES, DOUBLE WALL WITH SMOOTH LINING
CONSTRUCT 271.33 LF 24" HDPE SD (LOW FLOW)
DUAL PIPES, DOUBLE WALL WITH SMOOTH LINING
STA 37+48.93 45° BEND (EASTERN PIPE)
STA 37+59.33 45° BEND (EASTERN PIPE)
STA 37+88.61 =STA 3+64.71 BULKHEAD
MATCHLINE STA 38+88.61 LINE TEMPORARY I =3+64.71 LINE I
SEE SHEET 9
PROFILE SCALE
HORIZ: 1"=40'
VERT: 1"=4'
NOTE 1: THE 39 CFS IS BASED ON THE MAXIMUM FLOW RATE THAT CAN BE CONVEYED BY THE DOUBLE 24-INCH STORM DRAIN SYSTEM. THE 39 CFS IN AN INTERIM CONDITION UNTIL SUCH TIME ULTIMATE LINE "I" IS CONSTRUCTED WITHIN THE CITY OF CHINO.
28+00
29+00
30+00
31+00
32+00
33+00
34+00
35+00
36+00
37+00
38+00
LINE TEMPORARY I
(OWNED/MAINTAINED BY CITY OF CHINO)
APN: 1026-071-02
EX. R/W (CALTRANS)
(GAS)
(16" DW)
FUTURE C&G
PROPOSED OVERFLOW PONDING PER HYDROLOGY & HYDRAULIC REPORT FOR ONTARIO RANCH BUSINESS PARK. PONDING CONTINUES APPROX 450' EAST OF RIGHT OF WAY.
PROPOSED OVERFLOW PONDING PER HYDROLOGY CALCULATIONS
PROPOSED RE-GRADED CHANNEL, SLOPE
EDGE OF PAVEMENT
DUAL 6" BRINE SS (BY OTHERS)
GAS (ABANDONED)
FUTURE DOUBLE 10'X10' RCB SD INSTALLED BY OTHERS
36" SS
N0°23'51"W
PROPOSED RE-GRADED CHANNEL, FLOWLINE TO REMAIN
PROPOSED RE-GRADED CHANNEL, SLOPE
CITY OF CHINO
APN: 1026-072-06
CHINO AIRPORT
EX. CALTRANS R/W
EUCLID AVENUE
(PUBLIC)
MATCHLINE STA 37+88.61 LINE TEMPORARY I
=3+64.71 LINE I
SEE SHEET 9
CONSTRUCTION NOTES
4 CONSTRUCT 2-24" TEMPORARY HDPE PIPE. BEDDING & BACKFILL PER DETAIL 4 ON SHEET 11, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET ON 20
14 CONSTRUCT BRICK & MORTAR BULKHEAD PER DETAIL 14 ON SHEET 11
19 CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 321-2, DETAIL ON SHEET 16
26 CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 19
28 CONSTRUCT PRESSURE MANHOLE SHAFT AND PRESSURE PLATE, PER SPPWC 329-2, DETAIL ON SHEET 17
29 CONSTRUCT 24" TEMPORARY HDPE 45° BEND
STORM DRAIN CENTERLINE DATA TABLE
LINE/CURVE | BEARING/DELTA | LENGTH | RADIUS | TAN
L25 | N0°23'51"W | 495.33' | |
L26 | N0°23'51"W | 495.13' | |
L39 | N0°23'51"W | 191.66' | |
L40 | N29°36'09"E | 12.00' | |
L41 | N0°23'51"W | 69.28' | |
L42 | N0°23'51"W | 271.33' |
40' 0' 20' 40' 80'
SCALE: 1" = 40'
NOTE:
NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS
PAVEMENT LEGEND
PROPOSED AC PAVEMENT PER SEP. PLAN
EXISTING AC PAVEMENT TO REMAIN
LEGEND
STORM DRAIN FLOW DIRECTION
SEAL
REGISTERED PROFESSIONAL ENGINEER
SEAN REE MCINNIS
No.85559
Exp. 9/30/2022
CIVIL
STATE OF CALIFORNIA
6/22/22
811
Know what's below.
Call 811 before you dig.
CITY OF ONTARIO
RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER 7/26/22 DATE
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER 7/28/22 DATE
CALTRANS # 08-22-6-UT-0007
PREPARED BY
FIRM: WESTLAND GROUP, INC.
ADDRESS: 4150 CONCOURS, ONTARIO, CA 91764
TELEPHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE RCE 85559 DATE
REVISIONS
MADE BY DATE
RECOMMENDED BY DATE
BENCH MARK DATA
BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.
REFERENCE DRAWINGS
REVIEWED BY STAFF | BY | DATE
WATER:
SEWER:
FIRE:
PLANNING:
TRAFFIC:
ENVIRONMENTAL:
CITY ENGINEER'S STAFF | BY | DATE
DRAWN:
DESIGNED:
CHECKED:
RECOMMENDED:
RECOMMENDED BY:
CITY ENGINEER
DATE: 8/8/22
CITY OF CHINO ENGINEERING DIVISION
STORM DRAIN IMPROVEMENT PLAN & PROFILE
EUCLID AVENUE
FROM 1310' TO 590' SOUTH OF MERRILL AVE
PROJECT NO.
PM-20016
SHEET 8 OF 21
DRAWING NO.
AA 5049-2D
B14492
06/16/2022
Drawing Name: P:\PM\2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\06_09_2020-015_SD-PP.dwg
Last Opened: Jun 16, 2022 - 8:05am By: BrentKing

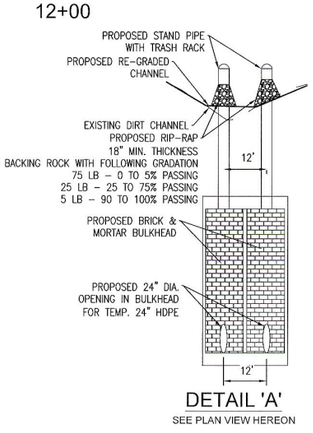
Q_{ULT-O}: PEAK FLOW RATE BASED ON CITY OF ONTARIO MDP
V_{ULT-O}: MAX VELOCITY BASED ON CITY OF ONTARIO MDP PEAK Q
HGL_{ULT-O}: HGL BASED ON CITY OF ONTARIO MDP PEAK Q
Q_{ULT-C}: PEAK FLOW RATE BASED ON CITY OF ONTARIO MDP
V_{ULT-C}: MAX VELOCITY BASED ON CITY OF ONTARIO MDP PEAK Q
$Q_{INTERIM}$: INTERIM PEAK FLOW BASED ON CURRENT LAND USE COVER
$V_{INTERIM}$: MAX VELOCITY BASED ON INTERIM PEAK FLOW RATE

NOTE 2: THE PEAK FLOW RATE FOR LINE "I" BASED ON THE CITY OF ONTARIO MDP IS Q_{ULT-O}=2,234.5 CFS. THE PEAK FLOW RATE FOR LINE "I" BASED ON THE CITY OF CHINO MDP IS Q_{ULT-C}=2,196.2 CFS. THE HGL SHOWN ON THE PLANS PERTAIN TO THE PEAK FLOW RATES PROVIDED BY THE CITY OF ONTARIO AND CITY OF CHINO.
NOTE 3: $Q_{INTERIM}$ IS BASED ON PEAK FLOW RATE USING CURRENT LAND COVER USING AN AERIAL IMAGE DATED 8/2021. THE CITY OF ONTARIO $Q_{INTERIM}$=900.1 CFS. THE CITY OF CHINO $Q_{INTERIM}$=1,142.7. THE $HGL_{INTERIM}$ SHOWN ON THE PLANS IS BASED ON THE CITY OF CHINO $Q_{INTERIM}$ SINCE THIS RESULT IS A GREATER PEAK FLOW.



* PROPOSED RIP RAP SHALL BE NO. 2 BACKING ROCK WITH FOLLOWING GRADATION
75 LB – 0 TO 5% PASSING
25 LB – 25 TO 75% PASSING
5 LB – 90 TO 100% PASSING





DETAIL 'A'
SEE PLAN VIEW HEREON

CONSTRUCTION NOTES

(7) CONSTRUCT PRECAST DBL 10'x10' RCB PER CALTRANS STD D83A & D83B, ALTERNATIVE TO CONSTRUCT CAST–IN–PLACE 10'X10'– WITH SLOPED INVERT RCB PER CALTRANS STD. D81 & D82. BEDDING & BACKFILL PER CALTRANS STD. A62G, DETAILS ON SHEETS 13–18 TRENCHING PER DEP. OF TRANSPORTATION STD TR–0153, DETAIL SHEET 20

(8) CONSTRUCT PRECAST 9.5'x9.5' RCB PER CALTRANS STD D83A & D83B, ALTERNATIVE TO CONSTRUCT CAST–IN–PLACE 9.5'X9.5' INCLUDE V INVERT RCB PER CALTRANS STD. D80. BEDDING & BACKFILL PER CALTRANS STD. A62G, DETAILS ON SHEETS 14, 15, 17 AND 19 TRENCHING PER DEP. OF TRANSPORTATION STD TR–0153, DETAIL SHEET 20

(10) CONSTRUCT TRANSITION STRUCTURE SINGLE RCB TO DOUBLE RCB PER SPPWC STD. 343–2, DETAIL ON SHEET 12

(11) CONSTRUCT 36" STORM DRAIN MANHOLE SHAFT WITHOUT REDUCER PER SPPWC STD. 326–2, DETAIL ON SHEET 11

(14) CONSTRUCT BRICK & MORTAR BULKHEAD PER DETAIL 14 ON SHEET 11

(15) CONSTRUCT RCB WINDOW PER SPPWC STD 382–2, DETAIL ON SHEET 21

(16) CONSTRUCT RCB STAND PIPE OUTLET RISER PER DETAIL16 ON SHEET 11

(23) CONSTRUCT JUNCTION STRUCTURE PIPE TO RCB PER SPPWC STD. 333–2, DETAIL ON SHEET 13

(24) CONSTRUCT RIP–RAP PER SAN DIEGO REGIONAL STD. DWG. D–40 DETAIL ON SHEET 12

(26) CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330–2, DETAIL ON SHEET 19

(33) INSTALL SURVEY MONITORING POINTS AND SETTLEMENT ROD PER CALTRANS TR–0151 AND TR–0152 ON SHEET 18

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
C3	008°43'08.0"	11.41'	75.00'	5.72
C5	033°39'48.2"	44.07'	75.00'	22.69
C6	020°49'26.7"	16.36'	45.00'	8.27
C7	047°22'56.9"	62.02'	75.00'	32.91
L20	N0°23'51"W	492.37'		
L34	N21°15'08"W	16.88'		

LEGEND
STORM DRAIN FLOW DIRECTION

NOTE:
NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

40' 0' 20' 40' 80'
SCALE: 1" = 40'

CALTRANS # 08-22-6-UT-0007

Know what's below. Call 811 before you dig.

SEAL
REGISTERED PROFESSIONAL ENGINEER — JOHN KEE MOHRET — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA
Lisa A Kelly 6/22/22

CITY OF ONTARIO
RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/20/22
ACCEPTED BY: KUOI DO, P.E., CITY ENGINEER — DATE 7/25/22

PAVEMENT LEGEND
PROPOSED AC PAVEMENT PER SEP. PLAN
PROPOSED PCC PAVEMENT PER SEP. PLAN
EXISTING AC PAVEMENT TO REMAIN

PREPARED BY	REVISIONS	MADE BY	MADE DATE	RECOMMENDED BY	RECOMMENDED DATE
FIRM: WESTLAND GROUP, INC.					
ADDRESS: 4150 CONCOURS, ONTARIO, CA 91764					
TELEPHONE: (909) 989-9789 FAX: (909) 989-9660					
SIGNATURE RCE 85559 DATE					

BENCH MARK DATA
BENCH MARK No. GG–18–1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG–18–1." SET ON TOP OF CURB, APPROX 5' +/– SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REFERENCE DRAWINGS

REVIEWED BY STAFF	BY	DATE	CITY ENGINEER'S STAFF	BY	DATE
WATER:			DRAWN:		
SEWER:			DESIGNED:		
FIRE:			CHECKED:		
PLANNING:			RECOMMENDED:		
TRAFFIC:					
ENVIRONMENTAL:					

RECOMMENDED BY:
CITY ENGINEER
DATE: 8/8/22

CITY OF CHINO ENGINEERING DIVISION

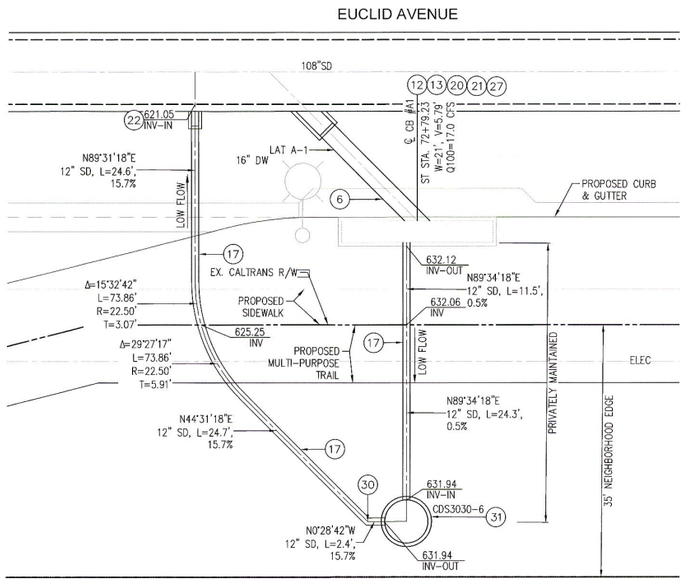
STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE
FROM 590' SOUTH OF MERRILL AVE TO MERRILL AVE

PROJECT NO. PM-20016
SHEET 9 OF 21
DRAWING NO. AA 5949.3D D14493

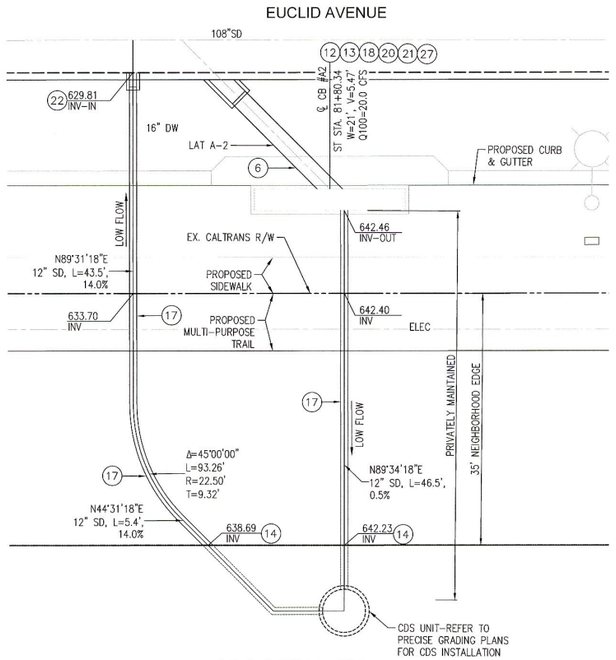
06/16/2022

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Last Opened: Jun 16, 2022 - 3:11pm by: Brent.King



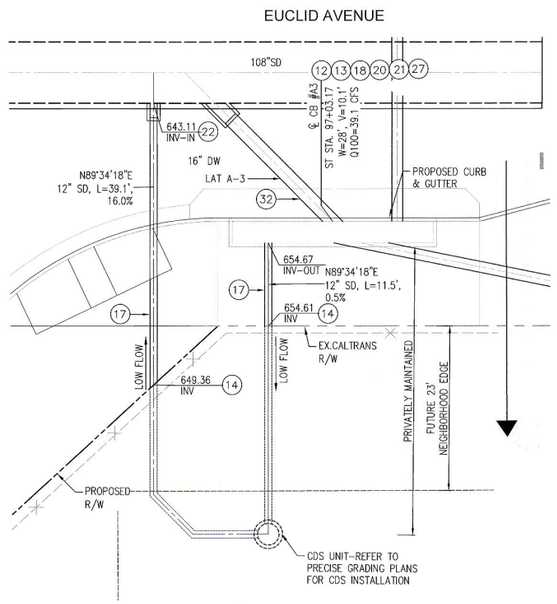
CDS DETAIL "A"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'
SEE SHEET 3



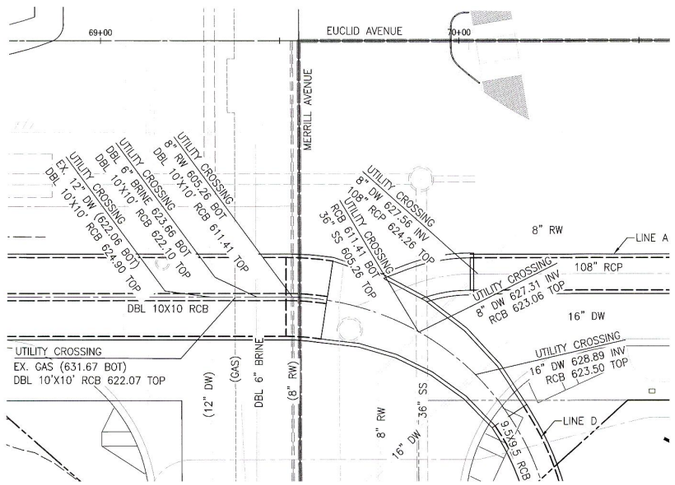
CDS DETAIL "B"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'
SEE SHEET 4



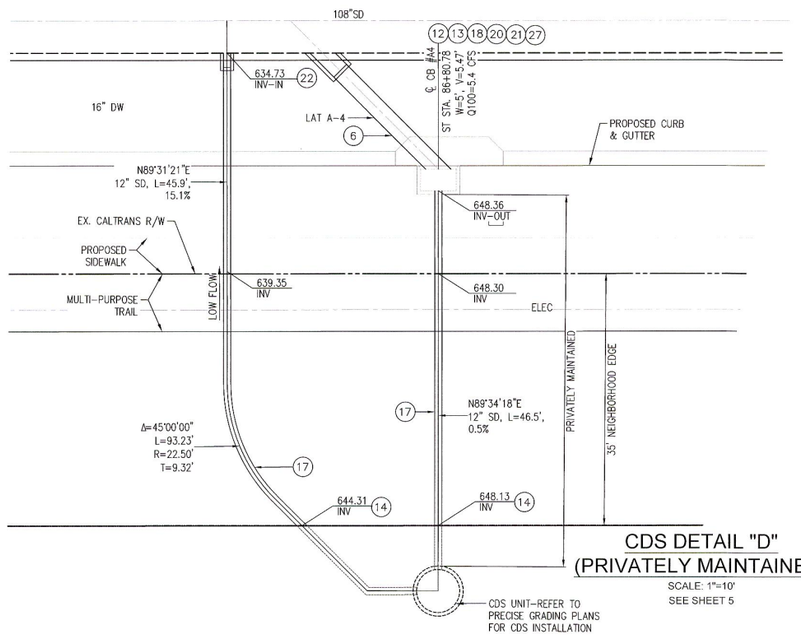
CDS DETAIL "C"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'
SEE SHEET 5



EUCLID AND MERRILL INTERSECTION
UTILITY CROSSING DETAIL

SCALE: 1"=20'
SEE SHEET 9



CDS DETAIL "D"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'
SEE SHEET 5

CONSTRUCTION NOTES

6	CONSTRUCT 30" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
12	CONSTRUCT CATCH BASIN NO. 2 PER CITY OF ONTARIO STD. DWG. NO. 3003 & 3015, "W" AND "V" PER PLAN
13	CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. NO. 3005, REFER TO PERMIT PM 20016 STREET IMPROVEMENT PLANS FOR DETAILS.
14	CONSTRUCT BRICK & MORTAR BULKHEAD PER DETAIL 14 ON SHEET 11
17	CONSTRUCT 12" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
18	INSTALL TEMPORARY CONCRETE BOTTOM TO CATCH BASIN, PER DETAIL 18 ON SHEET 11
20	CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11
21	INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO RIVER" OR EQUIVALENT
22	CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 331-3, DETAIL ON SHEET 15
20	CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11
27	CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2, DETAIL ON SHEET 12
30	CONSTRUCT 12" RCP CONCRETE COLLAR PER SPPWC STD. 380-4, DETAIL ON SHEET 21
31	CONSTRUCT CDS UNIT, SIZE PER PLAN PER DETAIL 31 ON SHEET 21
32	CONSTRUCT 24" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20

NOTE:

CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ONTARIO PROPERTY OWNERS PER WQMP MALIGNANCE. AGREEMENT.
WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT, AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED.

811 Know what's below. Call 811 before you dig.

CALTRANS # 08-22-6-UT-0007

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRIAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/19/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/19/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1," SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA RODE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

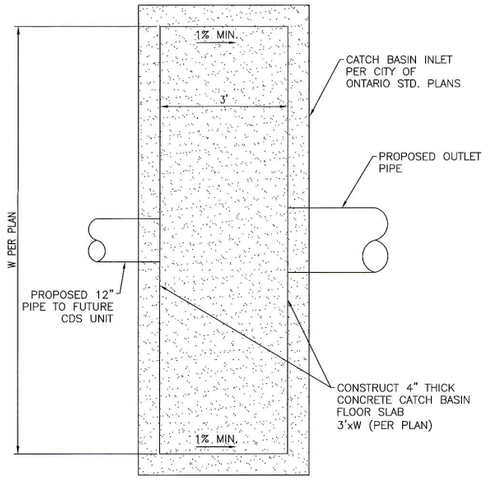
STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
CDS & UTILITY CROSSING DETAILS

PM-20016

SHEET 10 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

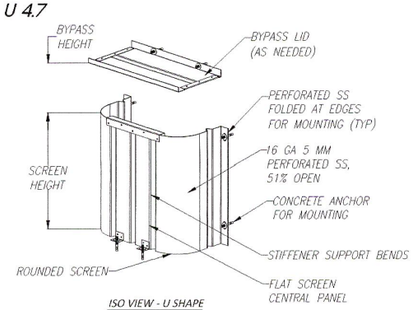
DKH4H 06/16/2022

Drawing Name: P:\Proj-2020\2020-015 RDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\10_2020-015_SD-CB DET.dwg
Last Updated: Jun 16, 2022 - 10:22am by: BrentKing



CATCH BASIN - PLAN VIEW

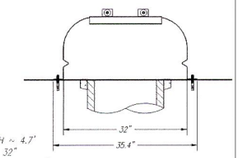
CONNECTOR PIPE SCREEN (CPS) U 4.7



ISO VIEW - U SHAPE

CPS U WITH 4.7 FT SCREEN LENGTH	
CPS HEIGHT (IN)	SCREEN FLOW (CFS)
12	6.67
18	12.26
24	18.88
30	26.40
36	34.71

NOTE: BYPASS FLOW RATES VARY WITH VAULT DEPTH AND BYPASS HEIGHT. CONTACT BIO CLEAN FOR ADDITIONAL INFORMATION.



TOTAL SCREEN LENGTH ~ 4.7'
SPAN LENGTH = 32"
COMPATIBLE WITH PIPES UP TO Ø24"

TOP SECTION VIEW - U SHAPE

GENERAL NOTES

1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE.
3. THIS CPS UNIT IS DESIGNED FOR TREATMENT FLOWS THROUGH THE SCREEN. FLOWS GREATER THAN THE TREATMENT FLOW RATE WILL BYPASS OVER THE SCREEN.
4. A BYPASS LID IS REQUIRED WHEN THE OUTLET PIPE IS DIRECTLY BELOW THE CURB OPENING.
5. CPS IS COMPRISED OF 304 STAINLESS STEEL. THICKNESS IS 16 GAUGE. SCREEN PERFORATIONS ARE 5 MILLIMETERS IN DIAMETER. THE SCREEN AREA IS 51% OPEN SPACE.

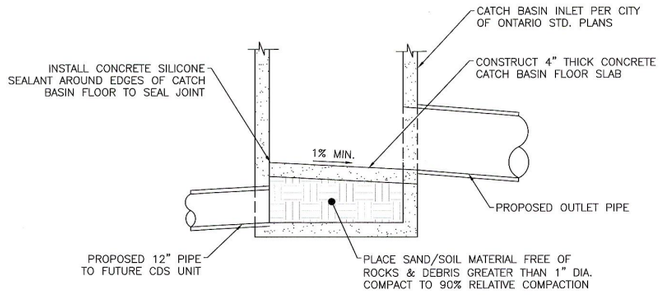
INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO INSTALL THE CPS UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. POSITION THE CPS SO IT IS EVENLY SPACED AROUND THE CONNECTOR PIPE, ENSURING A MIN. OF 4" SPACING AWAY FROM ANY CORNERS. SCREEN BOTTOM SHALL BE FLUSH WITH THE CATCH BASIN FLOOR, OR WITH GAPS NO GREATER THAN 5 MM.
3. IF A BYPASS LID IS REQUIRED, VERIFY THE BYPASS HEIGHT NEEDED AND MARK THAT LOCATION ON THE WALL DIRECTLY ABOVE THE BASE UPRIGHTS. LIFT THE LID IN PLACE AND MARK THE HOLE LOCATIONS FOR THE LID MOUNTING BRACKETS. SECURE THE LID WITH STAINLESS STEEL NUTS.

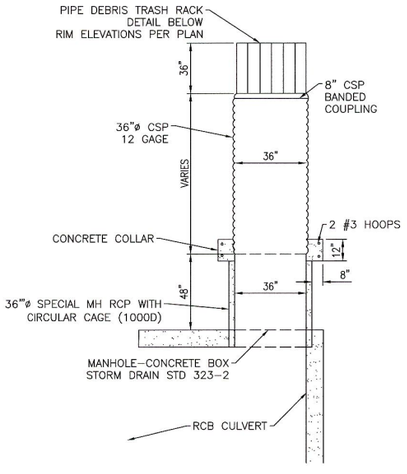
WARRANTY: 3 YEAR MANUFACTURER'S		MEETS FULL CAPTURE REQUIREMENTS	
BIO CLEAN ENVIRONMENTAL SERVICES, INC. 398 VIA EL CENTRO, OCEANSIDE CA 92058 PHONE: 760-433-7640		REVISIONS:	DATE:
DATE: 1/17/2020	SCALE: NTS	REVISIONS:	DATE:
DRAFTER: G.M.S.	UNITS = INCHES	REVISIONS:	DATE:

Bio Clean
A Forterra Company

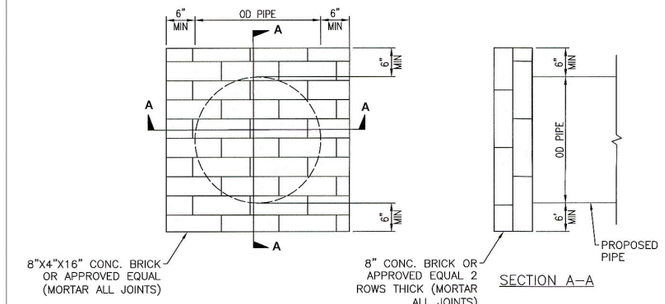
18 CATCH BASIN - TEMPORARY FLOOR CONSTRUCTION DETAIL
N.T.S.



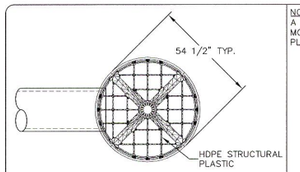
CATCH BASIN - PROFILE VIEW



16 RCB STAND PIPE OUTLET RISER
N.T.S.



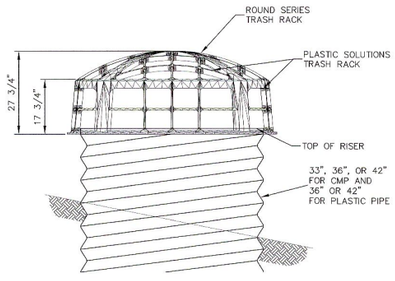
14 BRICK AND MORTAR BULKHEAD DETAIL



NOTE:
A 3/4" ROUND GALV PIPE MOUNTING KIT IS PROVIDED BY PLASTIC SOLUTIONS, INC.



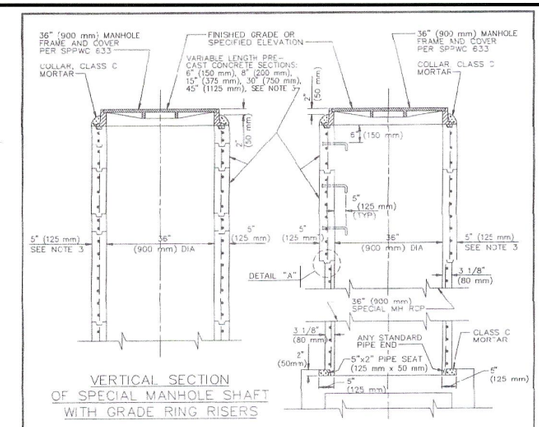
TRASH RACK ASSEMBLY



ELEV. A-A

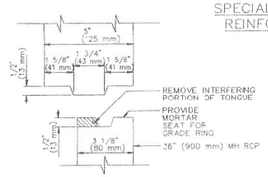
NOTE: **MOUNTING KIT INCLUDED**

PART NO	48" ROUND SERIES TRASH RACK	PLASTIC SOLUTIONS INC.	240 McGhee Road P.O. Box 4386 Winchester, VA 22604 540-722-4694 www.plastic-solution.com
RSP-48	WITH METAL OR PLASTIC RISER		



VERTICAL SECTION OF SPECIAL MANHOLE SHAFT WITH GRADE RING RISERS

VERTICAL SECTION OF SPECIAL MANHOLE SHAFT WITH REINFORCED CONCRETE PIPE



DETAIL "A"

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1992 REV. 1998, 2009	MANHOLE SHAFT 36"(900 mm) WITHOUT REDUCER USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN 326-2 SHEET 1 OF 2

NOTES

1. UNLESS OTHERWISE INDICATED THIS STRUCTURE SHALL CONFORM TO ASTM C 478 (ASTM C 478M). ALL STEEL SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES AND ALL CONCRETE SHALL BE PER SSPWC.
2. WHERE A 36" (900 mm) MANHOLE IS CONSTRUCTED WITH 36" (900 mm) MANHOLE RCP, THE RCP SECTION SHALL CONTAIN A CIRCULAR CAGE AND HAVE A LOAD CARRYING CAPACITY OF AT LEAST 1000D (50D). SPECIAL MANHOLE SHAFT SHALL BE PER THIS STANDARD AND 36" (900 mm) MANHOLE FRAME AND COVER SHALL BE PER SPPWC 633.
3. THE MANHOLE SHAFT AND RINGS MAY BE PLAIN CONCRETE. FOR PLAIN CONCRETE SECTIONS THE MINIMUM THICKNESS SHALL BE 6" (150 mm).
4. ALL JOINTS SHALL BE SEALED BY FILLING THE ANNULAR SPACES WITH CLASS C MORTAR. THE INSIDE OF THE SHAFT AT EACH JOINT SHALL BE WIPED CLEAN OF EXCESS MORTAR.
5. PROTECTIVE PLASTIC LINER (T LOCK) OR ENGINEER-APPROVED COATINGS WHERE REQUIRED BY THE PLANS SHALL BE IN ACCORDANCE WITH SSPWC AND THE MANUFACTURER'S DIRECTIONS.
6. STEPS SHALL CONFORM TO SPPWC 635 OR 636. THE TOP STEP SHALL BE PLACED 6" (150 mm) BENEATH THE MANHOLE COVER FRAME. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC.
7. THE PRECAST CONCRETE MANHOLE STRUCTURES WILL BE INSPECTED BY THE ENGINEER WHO WILL INDICATE ACCEPTANCE FOR SHIPMENT TO THE JOB BY MARKING THE STRUCTURES WITH THE AGENCY'S STAMP.
8. THE VERTICAL SIDES OF THE MANHOLE SHAFT SHALL BE LOCATED ABOVE AND IN LINE WITH THE SIDE OF THE STORM DRAIN CONDUIT.
9. CONSTRUCT MANHOLE SAFETY LEDGE PER SPPWC 330 IF DEPTH OF MANHOLE TO INVERT IS GREATER THAN 20 (6 m) AND MANHOLE SHAFT IS GREATER THAN 10' (3 m).
10. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:

    633 36" (900 mm) MANHOLE FRAME AND COVER
    635 STEEL STEP
    636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
	MANHOLE SHAFT 36"(900 mm) WITHOUT REDUCER	STANDARD PLAN 326-2 SHEET 2 OF 2

NOTE:
WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED

Know what's below. Call 811 before you dig.

CALTRANS # 08-22-6-UT-0007

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN EIRLE, P.E., ASSISTANT CITY ENGINEER — DATE 7/29/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/29/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA REE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

STORM DRAIN IMPROVEMENT PLAN

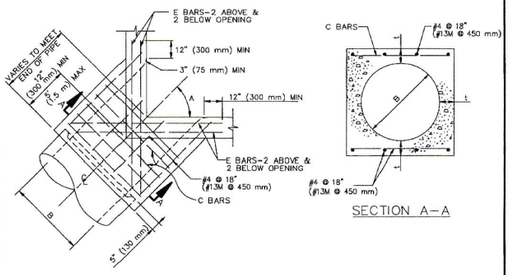
EUCLID AVENUE
DETAILS

PM-20016

SHEET 11 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 594935

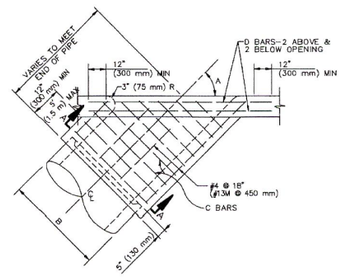
D14995 06/16/2022

Drawing Name: P:\Projects\2020\2020-015 RCFA Private II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11_21_2020-015_SD_DET.dwg
Last Opened: Jun 16, 2022 - 10:27am by: BenLong



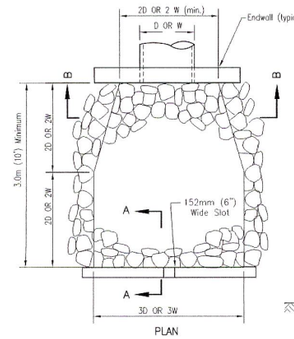
SECTION A–A

PLAN
CORNER CONNECTION



PLAN
SIDE CONNECTION

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC., GREENBOOK COMMITTEE 1994 REV. 1996, 2006	MONOLITHIC CATCH BASIN CONNECTION	STANDARD PLAN 308–2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

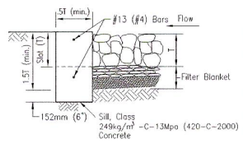


PLAN

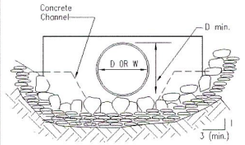
Design Velocity m/sec (ft/sec)*	Rock Classification	T (min)
1.8–3 (6–10)	No. 2 Backing	320mm (1.1ft)
3–3.7 (10–12)	220 kg (1/4 ton)	823mm (2.7ft)
3.7–4.3 (12–14)	450 kg (1/2 ton)	1.1m (3.5ft)
4.3–4.9 (14–16)	900 kg (1 ton)	1.3m (4.4ft)
4.9–5.5 (16–18)	1.8 tonne (2 ton)	1.6m (5.4ft)

*over 5.5 mps (18 fps) requires special design

D = Pipe Diameter
W = Bottom Width of Channel



SECTION A–A



SECTION B–B

NOTES

1. Plans shall specify:
   A) Rock Class and thickness (T).
   B) Filter material, number of layers and thickness.
2. Rip rap shall be either quarry stone or broken concrete (if shown on the plans.) Cobbles are not acceptable.
3. Rip rap shall be placed over filter blanket which may be either granular material or filter fabric (woven filter slit film fabric shall not be used).
4. See Regional Supplement Amendments for selection of filter blanket.
5. Rip rap energy dissipators shall be designated as either Type 1 or Type 2. Type 1 shall be with concrete sill; Type 2 shall be without sill.

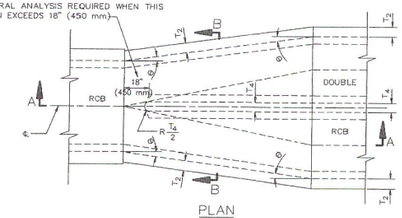
Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Add Rip Rap Table		S. Brady	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

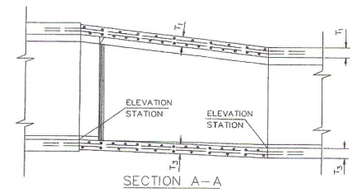
RIP RAP
ENERGY DISSIPATOR

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Gregerson R.C.E. 19246 Date 04/27/2006
DRAWING NUMBER D-40

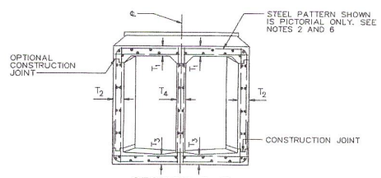
STRUCTURAL ANALYSIS REQUIRED WHEN THIS DIMENSION EXCEEDS 18" (450 mm)



PLAN



SECTION A–A



SECTION B–B

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1992 REV. 1995, 2000	TRANSITION STRUCTURE SINGLE RCB TO DOUBLE RCB	STANDARD PLAN 343–2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES

1. THE HORIZONTAL ANGLE OF DIVERGENCE OR CONVERGENCE, θ, SHALL NOT EXCEED 5° 45'.
2. REINFORCING STEEL BAR SIZE, SPACING AND OUTSIDE COVER SHALL BE THAT OF DOUBLE RCB SECTION. FOR CURVED TRANSITIONS, SPACE BARS ON CENTER LINE AND PLACE TRANSVERSE STEEL RADIALLY. THE BAR LENGTHS AND DIMENSIONS SHALL VARY UNIFORMLY THROUGHOUT TRANSITION. LONGITUDINAL BARS SHALL BE CONTINUED THROUGH THE JOINTS WITH THE TRANSITION STRUCTURE.
3. THE CONCRETE THICKNESS SHALL BE THAT OF THE DOUBLE RCB SECTION.
4. PLAN AS SHOWN IS FOR DOUBLE RCB SECTION DOWNSTREAM. WHEN DOUBLE RCB SECTION IS UPSTREAM TAPER THE LAST 24" (600 mm) OF CENTER WALL TO END IN 1 1/2" (40 mm) RADIUS.
5. f'_c = 4000 PSI (28 MPa) AT 28 DAYS AND THE CONCRETE SHALL BE THE SAME MIX AS THE ADJACENT RCB.
6. ALL STEEL, EXCEPT LONGITUDINAL STEEL SHALL BE GRADE 60 (400) BILLET STEEL CONFORMING TO ASTM A 615 (A 615 M) AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
7. TRANSVERSE JOINT KEYWAYS, AS DETAILED FOR LONGITUDINAL JOINT KEYWAYS AT BASE OF OUTER WALLS ON THE PLANS, SHALL BE PLACED IN BOTH SLABS AND WALLS AT THE END OF EACH POUR.
8. THE TRANSITION STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STRUCTURAL NOTES APPLYING TO RCB STRUCTURES SHOWN ON THE PLANS.

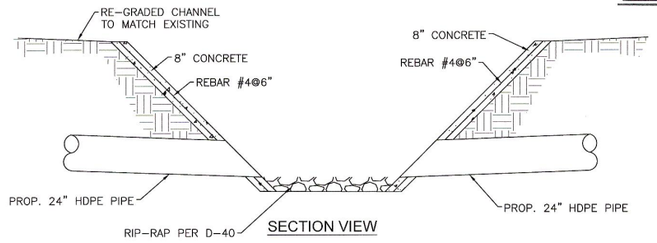
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
TRANSITION STRUCTURE SINGLE RCB TO DOUBLE RCB	343–2
	SHEET 2 OF 2

STRUCTURAL DATA							
B	t	C BARS	D&E BARS	B	t	C BARS	D&E BARS
12" (300 mm)	4" (115 mm)	#4 @ 5" (#13M @ 150 mm)	#5 (#16M)	42" (1050 mm)	7 1/2" (190 mm)	#5 @ 5" (#16M @ 150 mm)	#6 (#19M)
15" (375 mm)	4–1/4" (115 mm)			45" (1125 mm)	7 3/4" (190 mm)		
18" (450 mm)	4–1/2" (115 mm)			48" (1200 mm)	8" (215 mm)		
21" (525 mm)	5" (140 mm)			51" (1275 mm)	8 1/2" (215 mm)		
24" (600 mm)	5 1/4" (140 mm)			54" (1350 mm)	9" (240 mm)		
27" (675 mm)	5 1/2" (140 mm)			57" (1425 mm)	9 1/4" (240 mm)		
30" (750 mm)	6" (165 mm)			60" (1500 mm)	9 1/2" (240 mm)		
33" (825 mm)	6 1/4" (165 mm)			63" (1575 mm)	10" (250 mm)		
36" (900 mm)	6 1/2" (165 mm)			66" (1650 mm)	10 1/4" (260 mm)		
39" (975 mm)	7" (180 mm)			69" (1725 mm)	10 3/4" (280 mm)		
				72" (1800 mm)	11" (280 mm)		
FOR B GREATER THAN 72" (1800 mm) SEE PLANS							

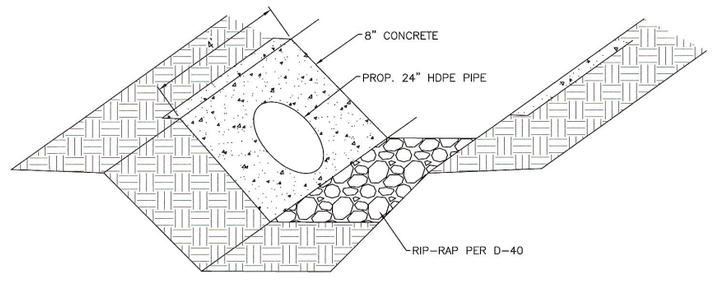
NOTES

1. REINFORCING STEEL SHALL BE 1–1/2" (40 mm) CLEAR FROM FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
2. REINFORCING STEEL FOR INSIDE FACE OF CATCH BASIN SHALL BE CUT AT CENTER OF OPENING AND BENT INTO WALLS OF MONOLITHIC CATCH BASIN CONNECTION. REINFORCING STEEL FOR OUTSIDE FACE OF CATCH BASIN SHALL BE CUT 2" (50 mm) CLEAR OF OPENING.
3. CONNECTION SHALL BE PLACED MONOLITHIC WITH CATCH BASIN. THE ROUNDED EDGE OF OUTLET SHALL BE CONSTRUCTED BY PLACING CONCRETE WITH THE SAME CLASS OF CONCRETE AS THE CATCH BASIN AGAINST A CURVED FORM WITH A RADIUS OF 3" (75 mm).
4. CONNECTIONS SHALL BE CONSTRUCTED WHEN:
   (A) PIPES INLET OR OUTLET THROUGH CORNER OF CATCH BASIN
   (B) ANGLE A FOR PIPES THROUGH 30" (750 mm) IN DIAMETER IS LESS THAN 70° OR GREATER THAN 110°.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
MONOLITHIC CATCH BASIN CONNECTION	308–2
	SHEET 2 OF 2



SECTION VIEW



ISOMETRIC VIEW

(25) CHANNEL CONCRETE END WALL DETAIL
N.T.S.

CITY OF CHINO

RECOMMENDED BY: _____ CITY ENGINEER 8/8/22 DATE

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: _____ BRIAN LIRLEY, P.E., ASSISTANT CITY ENGINEER 7/28/22 DATE
ACCEPTED BY: _____ KHOI DO, P.E., CITY ENGINEER 7/29/22 DATE

BENCH MARK No. GG–18–1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG–18–1," SET ON TOP OF CURB, APPROX 5' +/– SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER SIARA ROSE MACKINNEY No.85559 Exp. 9/30/2022 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989–9789 FAX: (909) 989–9660

SIGNATURE: SIARA R. MACKINNEY, P.E. 85559 R.C.E. NO. 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

CALTRANS # 08-22-6-UT-0007

PM-20016

SHEET 12 OF 21
CONTRACT _____
ACCOUNT _____
DWG. NO. AA 5949 SD

D14R16 06/08/2022

Drawing Name: P:\Projects\2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11_21_2020-015_SD_DET.dwg
Last Updated: Jun 08, 2022 - 4:45pm by: Brent King

DESIGN NOTES:

Design Specifications:
AASHTO LRFD Bridge Design Specifications, 6th Edition with California Amendments.

Loading:
Live load: (AASHTO LRFD 3.6.1.2)
HL-93 consists of design truck or design tandem and design lane load.

Impact Factor: (Apply to roof slab only)
$IM = 33(1.0\text{-}0.125D_E) \geq 0\%$ (AASHTO LRFD 3.6.2.2)
D_E = minimum depth of earth cover

Earth load:
Earth pressure for two conditions:
140 pcf vertical, 42 pcf horizontal
140 pcf vertical, 140 pcf horizontal

Load Factors:
AASHTO LRFD Table 3.4.1.1 & Table 3.4.1.2

Unit stresses:
f'_c = 3600 psi
f_y = 60,000 psi

Distribution "d" bars:
Up to and including 10'-0" cover
Express as a percentage of main positive reinforcement required: $\frac{100}{\sqrt{S}}$, Max 50%,
Over 10'-0" cover,
4 @ 12 maximum

Shear:
$V_c = (2.14\sqrt{f'_c}+4600\frac{A_s}{bd}\frac{Vud_e}{Mu})\,b_v d_e \leq 4.0\sqrt{f'_c}\,b_v d_e$ (Pounds)
V_c shall not be less than $3.00\sqrt{f'_c}\,b_v d_e$ for frame members and $2.5\sqrt{f'_c}\,b_v d_e$ for simply supported members.

Exclusion:
Compressive reinforcement and negative moment reduction (for continuity) do not apply.
Axial loading on members has not been considered.

CONSTRUCTION NOTES:

Construction loads:
Strutting required as shown on Standard Plan D88.
Strutting may be required on culvert extensions when existing parapet is removed.

Expansion joints:
Invert:
No expansion joints shall be permitted.

Roof and Walls:
When cover is less than span length-
Place ½" premolded expansion joint filler at 30'-0" ± centers outside the paved roadway lanes and place Bridge Detail 3-2, Standard Plan B0-3, at 30'-0" centers under paved roadway lanes.
When cover is more than span length-
Place ½" premolded expansion joint filler at 30'-0" ± centers and additional ½" premolded expansion joints at locations of change in foundation character, as directed by the Engineer.

Construction joints:
Temporary joints may be permitted if normal (or radial) to ℄ of RCB. Otherwise, the contractor is to submit a proposal for consideration.

Cutoff walls:
4'-0" cutoff walls are to be provided at inlet and/or outlet unless adjacent channel is lined and unless otherwise shown. These walls are to be extended if scour conditions warrant.

Earthwork:
See Standard Plan A62E.

Backfill:
See Standard Specifications, except that the difference in level of backfill (against outside walls) shall not exceed 2'-0".

GENERAL NOTES:

Designation:
Standard single or multiple box culverts are shown on plans as span times height with maximum cover over roof thus: 8' x 5' RCB with 10' or double 10' x 5' RCB with 20', followed by alternatives.

Alternatives:
Single cell: Invert will be sloped unless "trapezoidal invert", "flat invert" or "V invert" is included in designation.
Multiple cell: Invert will be vee unless "flat invert" is specified. Ends of culvert will be rounded unless "square ends" are designated. Parapets will be as shown unless designated in plans. Such designations may be different for inlet and outlet ends.

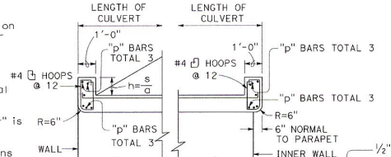
Quantities:
Quantities do not include the following:
- Concrete for parapet, paving notches and cut-off wall.
- Reinforcement for 2% splices, parapets, paving notches, cut-off wall and additional required bars for exposed top slab (D-80, Note 9).

Reinforcement placement:
Main reinforcement is to be placed transversely or, for curved culverts, radially. When radial, reinforcing spacing of the "a", "f" and "g" bars is measured along the centerline. Stagger splices not shown. Hooks may be rotated or tilted, as necessary, for clearance.

Special reinforcement coverage:
Box standard plans are not to be used for culverts in a corrosive environment or where there is a severe abrasive flow condition or in freeze-thaw locations.

Special designs
Required for culverts with conditions, loads, design bearing pressures or sizes greater than those given on this plan or Standard Plans D80 & D81. Also required for multiple cell culverts with unequal spans. For culverts with railroad loading, see the current AREMA design specification.

3 or more cells:
For culverts with more than two cells, use dimensions and reinforcement for the standard "double box culvert" and adjust quantities accordingly.



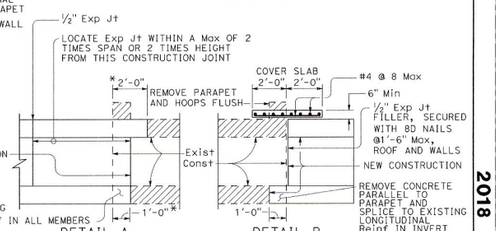
SINGLE SPAN MULTIPLE SPAN

PARAPET DETAIL

s = Clear span (ft)
a = 12 cosine skew angle
h = Height, 1'-0" Min

PARAPET "p" BARS			
SKEW ANGLE / SPAN	0° TO 15°	16° TO 30°	31° TO 45°
4'	#4	#4	#4
6'	#4	#4	#5
8'	#4	#5	#6
10'	#5	#6	#7
12'	#6	#7	#8
14'	#7	#8	#9

PARAPET REINFORCEMENT



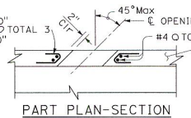
DETAIL A

DETAIL B

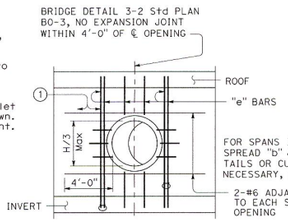
20° maximum skew as shown. If existing longitudinal and transverse reinforcing bars in top slab are lap spliced with new longitudinal and transverse reinforcing bars, the 20° skew may be exceeded. Lap splicing may require removal of top slab in excess of 2'-0" shown.

Single cell only, no skew allowed, 1'-0" minimum cover.

* Measured perpendicular to parapet



PART PLAN-SECTION

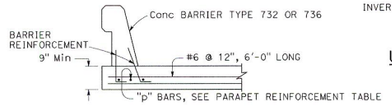


LONGITUDINAL SECTION

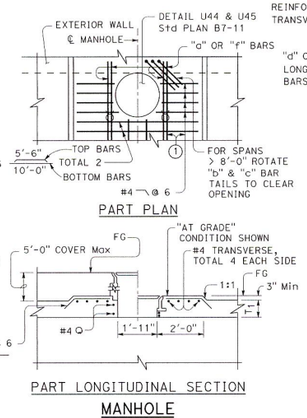
UTILITY OPENING-WALL

H=Height of box

① Adjacent to each side of the opening, place additional bars equivalent to half the interrupted main reinforcement.



BARRIER SECTION (30'-0" MINIMUM)

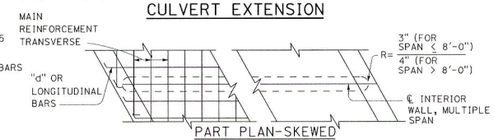


PART PLAN

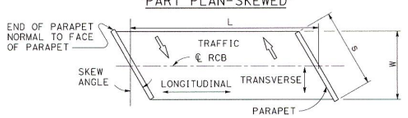
PART LONGITUDINAL SECTION

MANHOLE

CULVERT EXTENSION



PART PLAN-SKEWED



RCB TERMINOLOGY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE REINFORCED CONCRETE BOX CULVERT MISCELLANEOUS DETAILS

NO SCALE

D82

1-29-18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

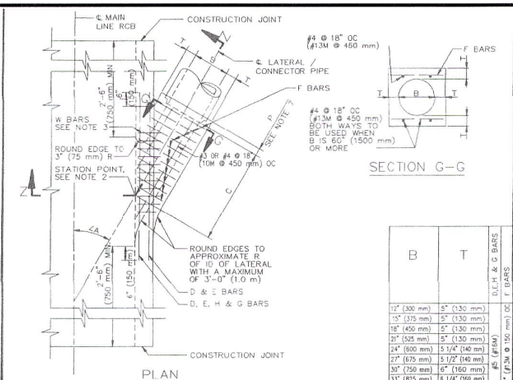
REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

Carl W. Dunn
No. C59976
Exp. 6-30-18
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

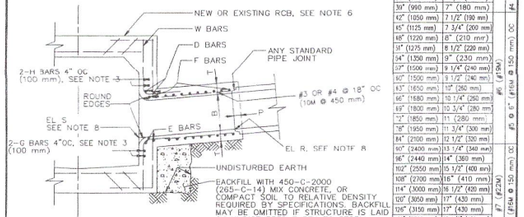
2018 STANDARD PLAN D82



PLAN

SECTION G-G

B	T	D,E,H & G BARS	F BARS
12" (300 mm)	5" (130 mm)		
15" (375 mm)	5" (130 mm)		
18" (450 mm)	5" (130 mm)		
21" (525 mm)	5" (130 mm)		
24" (600 mm)	5 1/4" (140 mm)		
27" (675 mm)	5 1/2" (140 mm)		
30" (750 mm)	6" (160 mm)		
33" (825 mm)	6 1/4" (159 mm)		
36" (975 mm)	6 1/2" (170 mm)		
39" (990 mm)	7" (180 mm)		
42" (1050 mm)	7 1/2" (190 mm)		
45" (1125 mm)	7 3/4" (200 mm)		
48" (1220 mm)	8" (210 mm)		
51" (1275 mm)	8 1/2" (220 mm)		
54" (1350 mm)	9" (230 mm)		
57" (1500 mm)	9 1/4" (240 mm)		
60" (1550 mm)	9 1/2" (240 mm)		
63" (1650 mm)	10" (260 mm)		
66" (1680 mm)	10 1/4" (260 mm)		
69" (1800 mm)	10 3/4" (280 mm)		
72" (1850 mm)	11" (280 mm)		
78" (1950 mm)	11 3/4" (300 mm)		
84" (2100 mm)	12 1/2" (320 mm)		
90" (2400 mm)	13 1/4" (340 mm)		
96" (2440 mm)	14" (360 mm)		
102" (2550 mm)	15 1/2" (400 mm)		
108" (2700 mm)	16" (410 mm)		
114" (3000 mm)	16 1/2" (420 mm)		
120" (3050 mm)	17" (430 mm)		
126" (3150 mm)	17" (430 mm)		
132" (3300 mm)	17 1/2" (450 mm)		
138" (3450 mm)	17 1/2" (450 mm)		
144" (3600 mm)	18" (460 mm)		



SECTION Z Z

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1934 REV. 1996, 2009	JUNCTION STRUCTURE – PIPE TO RCB	STANDARD PLAN 333-2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES

1. VALUES FOR A, B AND C SHALL BE SHOWN ON THE PLANS. *ELEVATION R AND ELEVATION S SHALL BE SHOWN WHEN REQUIRED PER* NOTE 8.
2. STATIONS SPECIFIED ON THE PLANS APPLY AT THE INTERSECTION OF CENTERLINES OF MAIN LINE AND LATERALS, EXCEPT THAT STATIONS FOR CATCH BASIN CONNECTOR PIPES APPLY AT NSIDE WALL OF STRUCTURE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 40, (ASTM A 615M, GRADE 300), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACE UNLESS OTHERWISE SHOWN.
   a. W BARS ARE OF SIZE AND SPACING SPECIFIED FOR WALL STEEL ON PLANS, AND SHALL BE CUT IN CENTER OF OPENING AND BENT INTO TOP AND BOTTOM OF JUNCTION STRUCTURE.
   b. OMIT H BARS WHEN SOFFIT OF SPUR IS 12" (300 mm) OR LESS BELOW SOFFIT OF MAIN LINE, AND OMIT G BARS WHEN INVERT OF SPUR IS 12" (300 mm) OR LESS ABOVE FLOOR OF MAIN LINE.
4. JUNCTION STRUCTURE SHALL BE POURED MONOLITHICALLY WITH MAIN LINE, MANHOLE OR TRANSITION STRUCTURE.
5. FLOOR OF STRUCTURE SHALL BE STEEL-TROWELED TO THE SPRING LINE.
6. WHEN CONNECTING TO EXISTING RCD, BREAKOUT LIMITS AND DETAILS SHALL BE SHOWN ON THE PLANS.
7. EMBEDMENT P, SHALL BE 5" (130 mm) FOR B = 96" (2400 mm) OR LESS 8" (200 mm) FOR B OVER 96" (2400 mm).
8. IF ELEVATION R AND ELEVATION S ARE NOT SHOWN ON THE PLANS *THEN THE INLET OPENING SHALL FALL 6" (150 mm) BELOW* THE SOFFIT OF THE MAIN LINE WITH THE INLET PIPE LAID ON A STRAIGHT GRADE FROM MAIN LINE TO CATCH BASIN OR TO GRADE BREAK IN INLET LINE. ELEVATION S SHALL BE SHOWN ON THE PLANS IF THE INLET OPENING FALLS MORE THAN 6" (150 mm) BELOW THE SOFFIT OF THE MAIN LINE WITH THE INLET PIPE LAID ON A STRAIGHT GRADE AS STATED ABOVE.
   ELEVATION R SHALL BE SHOWN ON THE PLANS ONLY WHEN A STUB IS TO BE PROVIDED FOR A FUTURE CONNECTION.
9. LATERALS OR CONNECTOR PIPES 24" (600 mm) OR LESS IN DIAMETER SHALL BE NO MORE THAN 5' (1.5 m) ABOVE THE INVERT. LATERALS OR CONNECTOR PIPES 27" (675 mm) OR LARGER IN DIAMETER SHALL BE NO MORE THAN 18" (450 mm) ABOVE THE INVERT, WITH THE EXCEPTION THAT CATCH BASIN CONNECTOR PIPES LESS THAN 50' (15 m) IN LENGTH SHALL NOT BE MORE THAN 5' (1.5 m) ABOVE THE INVERT.
10. THE NEED FOR AN EDGE BEAM AND/OR ADDITIONAL REINFORCEMENT SHALL BE INVESTIGATED BY THE ENGINEER FOR ANY ONE OF THE FOLLOWING CONDITIONS:
    a. ANGLE A IS LESS THAN 30°
    b. TOP OF INLET PIPE IS LESS THAN 6" (150 mm) BELOW THE SOFFIT
    c. FLOW LINE OF INLET PIPE IS LESS THAN 7" (180 mm) ABOVE THE THE FLOOR OF THE RCB AT THE INSIDE FACE

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
JUNCTION STRUCTURE – PIPE TO RCB	333-2
	SHEET 2 OF 2

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — 7/18/22 DATE
ACCEPTED BY: KAIDI DO, P.E., CITY ENGINEER — 7/18/22 DATE

CITY OF CHINO

RECOMMENDED BY: CITY ENGINEER — 8/8/22 DATE

BENCH MARK No. CC-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO CC-18-1," SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA REE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

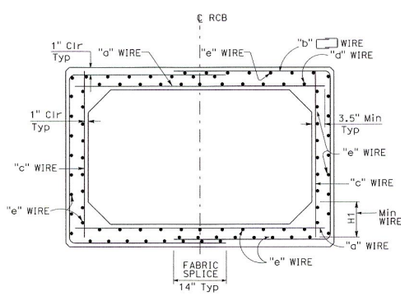
CALTRANS # 08-22-6-UT-0007

PM-20016

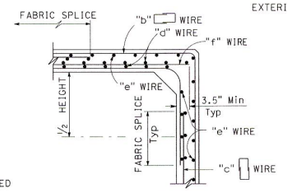
SHEET 13 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

D14497 06/03/2022

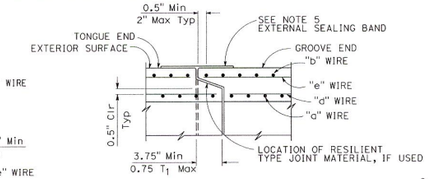
Drawing Name: P:\Year 2020\2020-015 RDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11-21-2020-015_SD_DET.dwg
Last Opened: Jun 03, 2022 - 4:05pm by: Brent.King



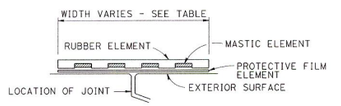
TYPICAL SECTION - SPANS 4'-0" THRU 12'-0"



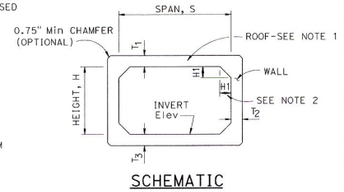
ALTERNATIVE DETAILING OPTION



END JOINT DETAIL



EXTERNAL SEALING BAND SCHEMATIC



SCHEMATIC

TABLE	
SPAN	EXTERNAL SEALING BAND WIDTH
4'-6'	9"
7'-8'	11"
10'-12'	13"

SPAN, S			4′						5′						6′						7′					
HEIGHT, H			2′		3′		4′		2′		3′		4′		5′		3′		4′		5′		6′		7′	
MAXIMUM EARTH COVER			10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′
CONCRETE (INCH)	ROOF	T_1	5.5	5.5	5.5	5.5	5.5	5.5	6"	6"	6"	6"	6"	6"	6"	6"	7"	7"	7"	7"	7"	7"	7"	7"	8"	8"	8"	8"
	SIDE WALL	T_2	5.5	5.5	5.5	5.5	5.5	5.5	6"	6"	6"	6"	6"	6"	6"	6"	7"	7"	7"	7"	7"	7"	7"	7"	8"	8"	8"	8"
	INVERT	T_3	5.5	5.5	5.5	5.5	5.5	5.5	6"	6"	6"	6"	6"	6"	6"	6"	7"	7"	7"	7"	7"	7"	7"	7"	8"	8"	8"	8"
MINIMUM WELDED WIRE FABRIC ($inch^2/ft$)		"a"	.33	.47	.34	.49	.34	.50	.40	.62	.41	.62	.42	.64	.43	.64	.44	.67	.45	.70	.46	.71	.47	.72	.47	.72	.48	.75
		"b"	.23	.28	.23	.25	.21	.23	.26	.36	.24	.36	.24	.33	.24	.30	.28	.44	.27	.40	.27	.37	.27	.38	.33	.52	.31	.48
		"c"	.11	.11	.11	.12	.18	.24	.11	.11	.11	.11	.13	.23	.24	.34	.11	.11	.11	.12	.19	.27	.27	.42	.11	.11	.11	.11
		"d"	.16	.11	.16	.11	.16	.11	.17	.11	.18	.11	.18	.11	.18	.11	.17	.11	.18	.11	.18	.11	.18	.11	.17	.11	.17	.11
		"e"	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
		"f"	.22	.36	.23	.37	.22	.26	.29	.51	.30	.51	.29	.41	.26	.30	.33	.56	.34	.58	.27	.44	.21	.30	.36	.61	.37	.64
* QUANTITY	Conc	CY/LF	.31		.34		.38		.37		.41		.44		.48		.51		.56		.60		.64		.63		.68	
	Reinf	LB/LF	35	41	39	45	45	51	49	58	49	62	54	69	62	78	60	79	64	83	72	93	80	107	72	98	76	102
** SOIL PRESSURE (ksf)			2.3	4.4	2.4	4.5	2.4	4.5	3.1	4.4	3.1	4.5	3.1	4.5	3.2	4.5	2.7	4.5	2.8	4.5	2.8	4.6	2.8	4.6	2.5	4.5

SPAN, S			8′						10′								12′							
HEIGHT, H			4′		5′		6′		7′		8′		5′		6′		7′		8′		9′		10′	
MAXIMUM EARTH COVER			10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′
CONCRETE (INCH)	ROOF	T_1	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
	SIDE WALL	T_2	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
	INVERT	T_3	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
MINIMUM WELDED WIRE FABRIC ($inch^2/ft$)		"a"	.55	.87	.56	.90	.57	.92	.58	.93	.58	.94	.66	1.07	.67	1.10	.69	1.13	.70	1.14	.70	1.16	.71	1.16
		"b"	.37	.59	.35	.55	.33	.52	.33	.52	.36	.57	.45	.74	.43	.70	.41	.67	.40	.64	.43	.67	.48	.67
		"c"	.11	.11	.11	.11	.20	.31	.31	.42	.38	.62	.11	.11	.11	.11	.22	.31	.36	.42	.40	.62	.54	.86
		"d"	.19	.11	.19	.11	.20	.11	.20	.11	.20	.11	.20	.11	.20	.11	.21	.11	.21	.11	.21	.11	.21	.11
		"e"	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
		"f"	.44	.76	.45	.79	.37	.61	.27	.52	.20	.31	.55	.96	.56	.99	.47	.81	.34	.73	.31	.53	.16	.30
* QUANTITY	Conc	CY/LF	.78		.83		.88		.94		.99		1.10		1.17		1.23		1.29		1.35		1.41	
	Reinf	LB/LF	93	129	97	133	105	148	117	161	131	189	133	191	138	196	148	212	191	225	176	253	201	282
** SOIL PRESSURE (ksf)			2.5	4.6	2.5	4.6	2.5	4.6	2.5	4.6	2.5	4.6	3.8	4.6	3.8	4.7	3.8	4.7	4.6	4.7	3.9	4.7	3.9	4.8

SPAN, S			12′											
HEIGHT, H			6′		7′		8′		9′		10′		11′	12′
MAXIMUM EARTH COVER			10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′ 20′	10′ 20′
CONCRETE (INCH)	ROOF	T_1	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12" 12"	12" 12"
	SIDE WALL	T_2	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12" 12"	12" 12"
	INVERT	T_3	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12" 12"	12" 12"
MINIMUM WELDED WIRE FABRIC ($inch^2/ft$)		"a"	.73	1.21	1.21	1.24	.77	1.27	1.24	1.29	1.27	1.31	.78 1.32	1.29 1.32
		"b"	.51	.85	.85	.81	.49	.77	.81	.74	.77	.77	.53 .79	.74 .79
		"c"	.11	.11	.11	.11	.23	.30	.37	.42	.42	.60	.54 .82	.42 1.06
		"d"	.20	.11	.20	.11	.21	.11	.22	.11	.22	.11	.22 .11	.22 .11
		"e"	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11 .11	.11 .11
		"f"	.62	1.10	1.10	1.13	.64	.97	1.13	.87	.97	.71	.40 .50	.87 .26
* QUANTITY	Conc	CY/LF	1.56		1.63		1.70		1.78		1.85		1.93	2.00
	Reinf	LB/LF	174	255	179	261	191	279	207	293	223	323	249 357	281 393
** SOIL PRESSURE (ksf)			3.6	4.7	3.7	4.7	3.7	4.8	3.7	4.8	3.7	4.8	3.8 4.9	3.8 4.9

* See Note 3 ** See Note 6

NOTES:

1. The inside and outside surfaces of the RCB roof shall be marked "TOP".
2. H1 minimum shall equal the wall thickness. H1 maximum shall be 8" for spans through 8' and 14" for spans over 8'.
3. Quantities are approximate and for design purposes only.
4. For design and details not shown see Standard Plan D83B.
5. For external sealing band applications see Standard Plan A62G.
6. Soil pressures shown are factored per AASHTO LRFD and include soil weight of fill over box, self weight of box and live load where applicable.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PRECAST REINFORCED CONCRETE BOX CULVERT

NO SCALE

D83A

1-29-18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

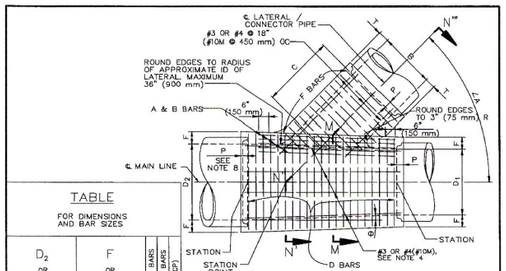
REGISTERED CIVIL ENGINEER — May 31, 2018 — PLANS APPROVAL DATE

Carl W. Dush, No. C59976, Exp. 6-30-18, CIVIL, STATE OF CALIFORNIA

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2018 STANDARD PLAN D83A

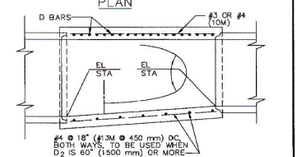
224



TABLE

FOR DIMENSIONS AND BAR SIZES

D_2 OR B (INCHES)	D_2 OR B (mm)	F OR T (INCHES)	F OR T (mm)	A OR B BARS	D OR F BARS	P (Min)
12	300	4	110	#3 @ 18" (#10M @ 450 mm) OC	#3 @ 18" (#10M @ 450 mm) OC	5" (125 mm)
15	375	4 1/4	110			
18	450	4 1/2	120			
21	525	5	130			
24	600	5 1/4	140			
27	675	5 1/2	140			
30	750	6	160			
33	825	6 1/4	160			
36	900	6 1/2	170			
39	975	7	180			
42	1050	7 1/2	190			
45	1125	7 3/4	200			
48	1200	8	210			
51	1275	8 1/2	220	#3 @ 18" (#10M @ 450 mm) OC	#3 @ 18" (#10M @ 450 mm) OC	5" (125 mm)
54	1350	9	230			
57	1425	9 1/4	240			
60	1500	9 1/2	250			
63	1575	10	260			
66	1650	10 1/4	260			
69	1725	10 3/4	280			
72	1800	11	280	#3 @ 18" (#10M @ 450 mm) OC OR #4 @ 18" (#13M @ 450 mm) OC	#3 @ 18" (#10M @ 450 mm) OC OR #4 @ 18" (#13M @ 450 mm) OC	5" (125 mm)
78	1950	11 3/4	300			
84	2100	12 1/2	320			
90	2250	13 1/4	340			
96	2400	14	360			
102	2550	15 1/2	400			
108	2700	16	410			
114	2850	16 1/2	420			
120	3000	17	440			
126	3150	17	440			
132	3300	17 1/2	450	#4 @ 18" (#13M @ 450 mm) OC OR #5 @ 18" (#16M @ 450 mm) OC	#4 @ 18" (#13M @ 450 mm) OC OR #5 @ 18" (#16M @ 450 mm) OC	8" (200 mm)
138	3450	17 1/2	450			
144	3600	18	460			



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1962 REV. 1995, 2009

TRANSITION STRUCTURE PIPE TO PIPE

STANDARD PLAN 340-2

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

SHEET 1 OF 2

NOTES

1. THE HORIZONTAL ANGLE OF CONVERGENCE OR DIVERGENCE, θ, SHALL NOT EXCEED 5° 45'.
2. VALUES FOR A, B, C, D_1 AND D_2 ARE SHOWN ON THE PLANS. ELEVATION R AND ELEVATION S ARE SHOWN WHEN REQUIRED BY NOTE 10.
3. FLOOR OF STRUCTURE SHALL BE STEEL TROWELED TO SPRING LINE.
4. REINFORCEMENT STEEL SHALL CONFORM TO ASTM A 615 (A 615 M), GRADE 300 (40), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN. LONGITUDINAL BARS SHALL BE #3 OR #4 @ 18" (#10M @ 450 mm) OC OR LESS.
5. ELEVATION S APPLIES AT INSIDE WALL OF STRUCTURE.
6. TRANSITION STRUCTURE SHALL BE POURED IN ONE CONTINUOUS OPERATION, EXCEPT THAT THE CONTRACTOR SHALL HAVE THE OPTION OF PLACING AT THE SPRING LINE A CONSTRUCTION JOINT LONGITUDINAL KEYWAY.
7. THE LENGTH OF THE STRUCTURE MAY BE INCREASED AT THE OPTION OF THE CONTRACTOR TO MEET RCP ENDS, USING D BARS, LONGITUDINAL AND BOTTOM REINFORCEMENT IN EXTENDED PORTION OF SAME DIAMETER AND SPACING AS SPECIFIED IN THE TABLE, BUT ANY CHANGE IN THE LOCATION OF SPUR MUST BE APPROVED BY THE ENGINEER.
8. EMBEDMENT P SHALL BE AS SPECIFIED IN THE TABLE, UNLESS OTHERWISE SHOWN ON THE PLANS.
9. WHEN THERE IS NO SPUR REQUIRED, A & B BARS SHALL BE OMITTED.
10. WHEN ELEVATION R AND ELEVATION S ARE NOT SHOWN ON PLANS, INLET PIPE SHALL ENTER MAIN LINE RADIALLY. WHEN INLET PIPE ENTERS MAIN LINE OTHER THAN RADIALLY, ELEVATION S SHALL BE SHOWN ON PLANS, AND INLET PIPE SHALL BE LAID ON A STRAIGHT GRADE FROM ELEVATION S TO CATCH BASIN OR GRADE BREAK IN INLET LINE. ELEVATION R SHALL BE SHOWN ON THE PLANS ONLY WHEN STUB IS TO BE PROVIDED IN MAIN LINE FOR FUTURE CONSTRUCTION OF INLET PIPE.
11. THE MAXIMUM COVER ABOVE THIS STRUCTURE SHALL BE 25' (7.5 m). IF THE COVER EXCEEDS 25' (7.5 m') A SPECIAL STRUCTURE SHALL BE DESIGNED FOR THE COVER AND DETAILED ON THE PLANS.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

TRANSITION STRUCTURE PIPE TO PIPE

STANDARD PLAN 340-2

SHEET 2 OF 2

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/18/22
ACCEPTED BY: KUSH DO, P.E., CITY ENGINEER — DATE 7/20/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SHAH REZA MOJARRAD — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE

DETAILS

CALTRANS # 08-22-6-UT-0007

PM-20016

SHEET 14 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

D14498 06/03/2022

Drawing Name: P:\Yer-2020\2020-015 REDA Phase II Final Engineering\DS Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11_21_2020-015_SD_DET.dwg
Last Opened: Jun 03, 2022 - 4:06pm by: BrentKing

DESIGN NOTES:

Specifications:
AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments.

Earth load:
Earth pressures for two conditions:
140 pcf Vert, 42 pcf Horiz
140 pcf Vert, 140 pcf Horiz

Unit stresses:
f'c = 5.0 ksi
fy = 65.0 ksi for weld wire fabric
n = 7

Shear:
Based on
$V_c = (2.14\sqrt{f'_c}+4600\ \frac{A_s}{bd_e}\frac{V_u d_e}{M_u})\, b.d_e \le 4.0\sqrt{f'_c} b.d_e$ (Pounds)
V_c shall not be less than $3.00\sqrt{f'_c} b.d_e$
for frame members and $2.5\sqrt{f'_c} b.d_e$
for simply supported members.

Exclusion:
Axial loading on the members has not been considered.

GENERAL NOTES:

Designation:
Standard single or multiple precast box culverts are shown on the plans as span times height with maximum cover over roof thus: 8' x 5' RCB with 10'-0" or double 10' x 5' RCB with 20'-0", followed by alternatives.

Alternatives:
Single cell:
Standard dimensions of AASHTO Material Specification 'M259' or 'M273'.
Multiple cell:
Constructed by placing single cells adjacent to each other. Inlet and outlet ends of culvert will be rounded unless square ends are designated. Parapet will be shown unless designated in plans. Such designation may be different for inlet and outlet ends.

Limitations:
Where the overfill is less than 12", Precast RCB culverts are not to be used. Precast RCB culverts are not to be used in siphon or pressurized installations unless appropriate "watertight" jointing is provided.

Special reinforcement coverage:
Precast RCB culvert standard plans are not to be used in a corrosive environment or where there is a severe abrasive flow condition or freeze-thaw locations.

Special design:
Required for culvert with different conditions, loads or design bearing pressures greater than those given on these plans. Required for culverts where end details need higher skew angles, higher parapets or barrier sections.

CONSTRUCTION NOTES:

Cutoff walls:
4'-0" Cutoff walls are to be provided at inlet and/or outlet unless channel is lined and unless otherwise shown. These walls are to be extended if scour conditions warrant. See Standard Plans D84, D85 and D86A.

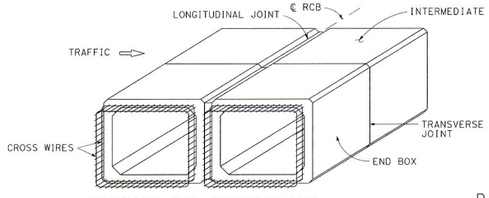
Wingwalls:
Wingwalls shall be cast-in-place and shall conform to standard plan details for box culvert wingwalls. See Standard Plans D84, D85 and D86A.

Earthwork:
See Standard Plan A62G.

Construction loads:
Strutting may be required near temporary ends. For construction loads on culverts, See Standard Plan D88.

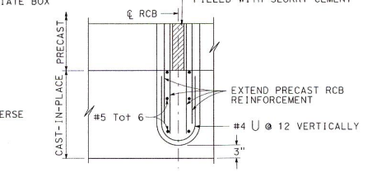
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
May 31, 2018
PLANS APPROVAL DATE
Cori W. Dunn, No. C59976, Exp. 6-30-18, CIVIL, STATE OF CALIFORNIA
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PRECAST RCB TERMINOLOGY

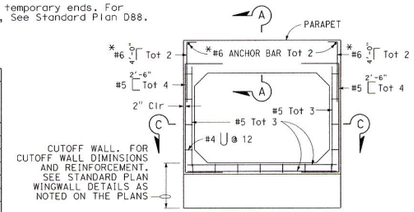
NOTE: Inner and outer reinforcement to be exposed as required to tie to cast-in-place construction. A minimum of two cross wires shall be exposed on all sides.



PARTIAL PLAN INTERIOR WALL MULTICELL CULVERT

PARAPET "P" BARS			
SKEW ANGLE / SPAN	0° TO 15°	16° TO 30°	31° TO 45°
4'-0"	#5	#5	#5
5'-0"	#5	#5	#6
6'-0"	#6	#6	#6
7'-0"	#7	#7	#7
8'-0"	#7	#7	#8
10'-0"	#8	#8	#9
12'-0"	#9	#9	#10

BARRIER PARAPET REINFORCEMENT

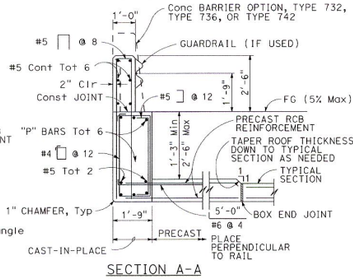


CAST-IN-PLACE END ELEVATION

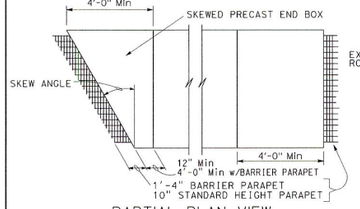
* Reinforcing required for barrier parapet application only.



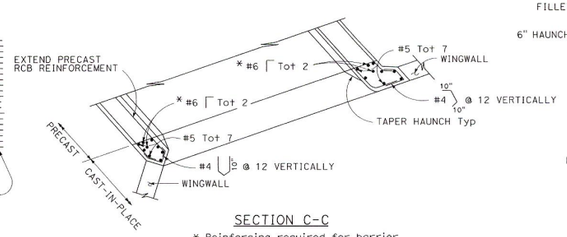
SECTION A-A (Standard Height Parapet)



SECTION A-A (Barrier Parapet)



PARTIAL PLAN VIEW
For illustrative purposes only. For correct skew direction see plans.



SECTION C-C
* Reinforcing required for barrier parapet application only.

TYPICAL CULVERT END DETAILS
For wall and invert reinforcement not shown, See "End Elevation" detail.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

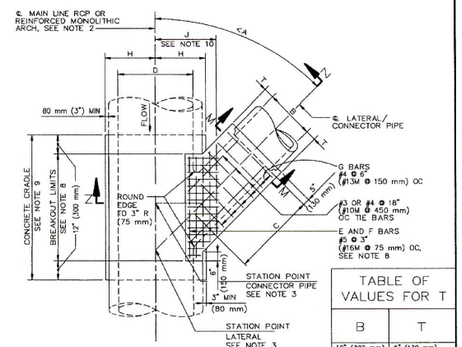
PRECAST REINFORCED CONCRETE BOX CULVERT MISCELLANEOUS DETAILS

NO SCALE

D83B

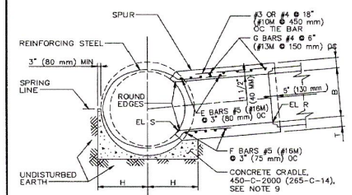
1-29-18

2018 STANDARD PLAN D83B



PLAN

TABLE OF VALUES FOR T	
B	T
12" (300 mm)	5" (130 mm)
15" (375 mm)	5" (130 mm)
18" (450 mm)	5" (130 mm)
21" (525 mm)	5" (130 mm)
24" (600 mm)	5 1/2" (140 mm)
27" (675 mm)	5 1/2" (140 mm)
30" (750 mm)	6" (150 mm)
33" (825 mm)	6 1/2" (170 mm)
36" (900 mm)	6 1/2" (170 mm)
39" (975 mm)	7" (180 mm)



SECTION Z-Z

SECTION M-M

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE. REV. 1990, 1999, 2009	JUNCTION STRUCTURE – PIPE TO PIPE INLET ID ≥ 24" (600 mm) OR OD > 1/2 MAIN LINE ID	STANDARD PLAN 331-3
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES

1. THIS JUNCTION STRUCTURE SHALL BE USED WHEN THE OUTSIDE DIAMETER OF THE LATERAL IS GREATER THAN 1/2 THE INSIDE DIAMETER D OF THE MAIN LINE; OR WHEN THE INSIDE DIAMETER B OF THE LATERAL IS GREATER THAN 24" (600 mm). B SHALL NOT EXCEED 0.75 D OR 39" (975 mm).
2. IF THE MAIN LINE IS A REINFORCED MONOLITHIC ARCH STORM DRAIN, D SHALL REFER TO THE CLEAR SPAN OF THE ARCH. REINFORCING STEEL SHALL BE CUT AND BENT INTO THE JUNCTION STRUCTURE IN THE SAME MANNER AS FOR A PIPE. A CONCRETE CRADLE IS NOT REQUIRED FOR A REINFORCED MONOLITHIC ARCH.
3. STATIONS SHOWN ON THE PLANS FOR LATERALS APPLY AT THE INTERSECTION OF CENTERLINES OF MAIN LINE AND LATERAL. STATIONS SHOWN ON THE PLANS FOR CATCH BASIN CONNECTOR PIPES APPLY AT THE INTERSECTION OF THE INSIDE WALL OF THE MAIN LINE WITH THE CONNECTOR PIPE CENTERLINE.
4. VALUES FOR A, B, C AND D SHALL BE SHOWN ON THE PLANS. ELEVATION R AND ELEVATION S SHALL BE SHOWN ONLY WHEN REQUIRED PER NOTE 5.
5. a. ELEVATIONS R AND S NEED NOT BE SHOWN ON THE PLANS IF THE INLET PIPE IS TO ENTER THE MAIN LINE RADIALLY.
   b. ELEVATION R SHALL BE SHOWN ON THE PLANS ONLY IF A STUB IS TO BE PROVIDED IN THE MAIN LINE FOR FUTURE CONNECTION OF AN INLET PIPE.
   c. ELEVATION S SHALL BE SHOWN ON THE PLANS IF AN INLET PIPE IS TO ENTER THE MAIN LINE OTHER THAN RADIALLY. INLET PIPE SHALL BE LAID ON A STRAIGHT GRADE FROM ELEVATION S TO THE CATCH BASIN OR GRADE BREAK IN LINE.
6. THE INLET PIPE SHALL ENTER THE MAIN LINE RADIALLY UNLESS OTHERWISE INDICATED. THE INLET PIPE MAY ENTER THE MAIN LINE OTHER THAN RADIALLY IF ANGLE A IS GREATER THAN 45°, B IS LESS THAN OR EQUAL TO 24" (600 mm) AND THE OUTSIDE DIAMETER OF THE INLET PIPE IS LESS THAN 0.5 D; OTHERWISE, SPPWC 340 SHALL BE USED.
7. NO MORE THAN ONE OPENING SHALL BE MADE IN ANY ONE SECTION OF PIPE.
8. THE OPENING FOR THE BREAKOUT SHALL BE RECTANGULAR AND CUT NORMAL TO THE PIPE SURFACE WITHOUT DAMAGING THE REINFORCING STEEL. THE TRANSVERSE REINFORCEMENT OF THE MAIN LINE SHALL BE CUT AT THE CENTER OF THE OPENING AND BENT INTO THE TOP AND BOTTOM SLABS OF THE SPUR.
9. THE MAIN LINE SHALL BE REINFORCED WITH A CONCRETE CRADLE AND ENCASEMENT (AS APPLICABLE). A CONCRETE ENCASEMENT IS REQUIRED IF A JOINT IN THE MAIN LINE FALLS WITHIN THE LIMITS OF THE CRADLE. THE CONCRETE ENCASEMENT SHALL EXTEND 12" (300 mm) ABOVE THE TOP OF THE MAIN LINE AND TO THE LIMITS OF THE CRADLE. IF CONNECTING TO AN EXISTING STORM DRAIN, PORTION OF CRADLE OPPOSITE INLET MAY BE OMITTED.
10. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 40, (ASTM A 615M, GRADE 300), AND BE PLACED 1 1/2" (40 mm) CLEAR FROM CONCRETE SURFACES, UNLESS OTHERWISE SHOWN F BARS SHALL BE CARRIED TO A POINT NOT LESS THAN J DISTANCE FROM CENTER LINE WITH J=7D/12 + 6" (150 mm).
11. FLOOR OF THE SPUR SHALL BE STEEL-TROWELED TO THE SPRING LINE OF THE SPUR.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
JUNCTION STRUCTURE–PIPE TO PIPE INLET ID≥24" (600 mm) OR OD>1/2 MAIN LINE ID	331-3
	SHEET 2 OF 2

Know what's below. Call 811 before you dig.

CITY OF CHINO

RECOMMENDED BY: _____ CITY ENGINEER — DATE 7/8/22

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/18/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/19/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF EOR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER, SIMA ROZ MOJAHED, No.85559, Exp. 9/30/2022, CIVIL, STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

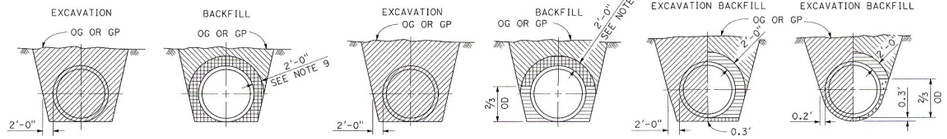
REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

CALTRANS # 08-22-6-UT-0007
PM-20016
SHEET 15 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD
D14499 06/03/2022

Drawing Name: P:\Esr_2020\2020-015.REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11_21_2020-015_SD_DET.dwg
Last Opened: Jun 03, 2022 - 4:43pm by: BrentKing



MINIMUM ALLOWABLE CLASSES OF RCP FOR METHOD 1

COVER	MINIMUM CLASS AND D-LOAD
5.9'	CLASS II 1000D
6.0' - 7.9'	CLASS III 1350D
8.0' - 9.9'	CLASS III SPECIAL 1700D
10.0' - 11.9'	CLASS IV 2000D
12.0' - 13.9'	CLASS IV SPECIAL 2500D
14.0' - 16.9'	CLASS V 3000D
17.0' - 20.0'	CLASS V SPECIAL 3600D

See Notes 6 and 9

METHOD 1

MINIMUM ALLOWABLE CLASSES OF RCP FOR METHOD 2

COVER	MINIMUM CLASS AND D-LOAD
15.9'	CLASS II 1000D
16.0' - 19.9'	CLASS III 1350D
20.0' - 24.9'	CLASS III SPECIAL 1700D
25.0' - 27.9'	CLASS IV 2000D
28.0' - 34.9'	CLASS IV SPECIAL 2500D
35.0' - 41.9'	CLASS V 3000D
42.0' - 50.0'	CLASS V SPECIAL 3600D

See Notes 8 and 9

METHOD 2

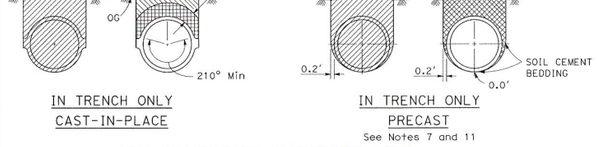
REINFORCED CONCRETE PIPE

See Notes 1, 2, 7 and 10

MINIMUM ALLOWABLE CLASSES OF RCP FOR METHOD 3

COVER	MINIMUM CLASS AND D-LOAD
25.9'	Class II 1000D
26.0' - 31.9'	Class III 1350D
32.0' - 37.9'	Class III Special 1700D
38.0' - 44.9'	Class IV 2000D
45.0' - 55.9'	Class IV Special 2500D
56.0' - 67.9'	Class V 3000D
68.0' - 80.0'	Class V Special 3600D

METHOD 3



NON-REINFORCED CONCRETE PIPE

NOTES:

1. Unless otherwise shown on the plans or specified in the special provisions, the Contractor shall have the option of selecting the class of RCP and the method of backfill to be used, provided the height of cover does not exceed the value shown for the RCP selected.
   Example:
   2'-0" RCP culvert with maximum cover of 19'-0" the options are:
   a) Class V Special or stronger with Method 1.
   b) Class III or stronger with Method 2.
   c) Class II or stronger with Method 3.
   Cover is defined as the maximum vertical distance from top of pipe to finished grade within the length of any given culvert.
2. The class of RCP, method of backfill and bedding selected shall be the same throughout the length of any given culvert.
3. The "length of any culvert" is defined as the culvert between:
   a) Successive drainage structures (inlets, junction boxes, headwalls, etc.).
   b) A drainage structure and the inlet or outlet end of the culvert.
   c) The inlet and outlet end of the culvert when there are no intervening drainage structures.
4. Slope or shore excavation sides as necessary.
5. Embankment height prior to excavation for installation of all classes of RCP under Methods 2 and 3A shall be as follows:
   Pipe sizes 1'-0" to 3'-6", I D = 2'-6"
   Pipe sizes 4'-0" to 7'-0", I D = 2/3 OD
   Pipe sizes larger than 7'-0", I D = 5'-0"
6. The maximum size for all classes of RCP placed under Method 1 is 6'-6" ID.
7. Non-reinforced precast pipe sizes 3'-0" or smaller may also be placed under Methods 1, 2 or 3.
8. Oval or arch shaped RCP shall be placed under Method 2 only.
9. Embankment compaction requirements govern over the 90% relative compaction backfill requirement within 2'-6" of finished grade.
10. Backfill shall be placed full width of excavation except where dimensions are shown for backfill width or thickness. Dimensions shown are minimums.
11. Where the precast non-reinforced concrete pipe is used as a substitute for the cast-in-place pipe, both the wall thickness and the concrete strength shall be at least as great as that specified for the cast-in-place pipe. The fill height allowed shall not exceed that shown for the cast-in-place pipe.

LEGEND

- STRUCTURE EXCAVATION (CULVERT)
- STRUCTURE BACKFILL (CULVERT) 95% RELATIVE COMPACTION
- STRUCTURE BACKFILL (CULVERT) 90% RELATIVE COMPACTION
- LOOSE BACKFILL
- SAND BEDDING
- SOIL CEMENT BEDDING
- ROADWAY EMBANKMENT

OD = OUTSIDE DIAMETER FOR CIRCULAR PIPES AND MAXIMUM VERTICAL DIMENSION FOR OTHER SHAPES

ID = INSIDE DIAMETER FOR CIRCULAR PIPES AND MINIMUM VERTICAL DIMENSION FOR OTHER SHAPES

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
Carl W. Dunn
No. C59976
Exp. 6-30-18
CIVIL
STATE OF CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

EXCAVATION AND BACKFILL CONCRETE PIPE CULVERTS

NO SCALE

A62D

1-26-18

2018 STANDARD PLAN A62D

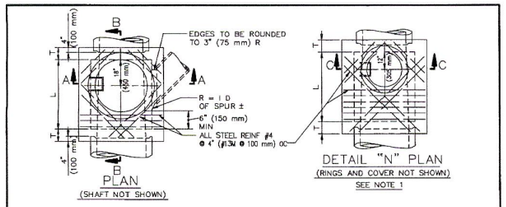


TABLE OF VALUES FOR M (SEE NOTE 1)

SECTION	PAVED STREET MAX	PAVED STREET MIN	UNPAVED STREET MAX	UNPAVED STREET MIN
A-A		2'-10 1/2" (867 mm)		3'-6" (1060 mm)
C-C	11" (282 mm)	8 1/2" (217 mm)	16" (410 mm)	15" (380 mm)

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1922 REV. 1998, 2009

MANHOLE PIPE-TO-PIPE (ONE OR BOTH MAIN LINE IDS 33" (825 mm) OR SMALLER)

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN **321-2** SHEET 1 OF 3

NOTES

1. WHEN DEPTH M FROM STREET GRADE TO THE TOP OF THE BOX IS LESS THAN 2'-10 1/2" (867 mm) FOR PAVED STREETS OR 3'-6" (1060 mm) FOR UNPAVED STREETS, CONSTRUCT SHAFT PER SECTION C-C AND DETAIL "N". DEPTH M MAY BE REDUCED TO AN ABSOLUTE LIMIT OF 6" (150 mm) WHEN LARGER VALUES OF M WOULD REDUCE H IN SECTION C-C TO 3'-6" (1060 mm) OR LESS.
2. H (IN SECTION A-A AND B-B) SHALL NOT BE LESS THAN 4'-0" (1.2 m), BUT MAY BE INCREASED PROVIDED THAT THE VALUE OF M SHALL NOT BE LESS THAN THE MINIMUM SPECIFIED AND THAT THE REDUCER SHALL BE USED. FOR H (IN SECTION C-C) SEE NOTE 1.
3. L SHALL BE 4'-0" (1.2 m) UNLESS OTHERWISE SHOWN. L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS, BUT ANY CHANGE IN LOCATION OF THE SPUR MUST BE APPROVED BY THE ENGINEER.
4. T SHALL BE 8" (200 mm) FOR VALUES OF H UP TO AND INCLUDING 8'-0" (2.4 m) AND 10" (250 mm) FOR VALUES OF H OVER 8'-0" (2.4 m).
5. STATIONS OF MANHOLES SHOWN ON PLANS APPLY AT CENTERLINE OF SHAFT. ELEVATIONS ARE SHOWN AT CENTERLINE OF SHAFT AND REFER TO THE PROLONGED INVERT GRADE LINES. SEE NOTE 3.
6. REINFORCEMENT SHALL CONFORM TO ASTM A 615, GRADE 40 (ASTM A 615M, GRADE 300), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
7. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
8. BODY OF MANHOLE SHALL BE POURED IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT SPRING LINE.
9. THICKNESS OF THE DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL SEAT BUT SHALL NOT BE LESS THAN 8" (200 mm).
10. STEPS SHALL CONFORM TO SPPWC 635 OR 636, UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC. THE LOWEST STEP SHALL NOT BE MORE THAN 24" (600 mm) ABOVE THE LEDGE AT THE SIDE OF THE MANHOLE.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

MANHOLE PIPE-TO-PIPE (ONE OR BOTH MAIN LINE IDS = 33" (825 mm) OR SMALLER)

STANDARD PLAN **321-2** SHEET 2 OF 3

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — 7/14/22 DATE
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — 7/18/22 DATE

CITY OF CHINO

RECOMMENDED BY: _____ CITY ENGINEER — 8/8/22 DATE

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SHAWN ROSE MACKINNEY — No. 85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE

DETAILS

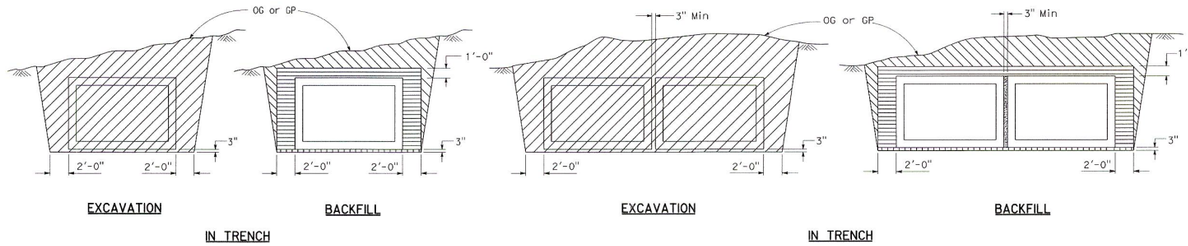
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PM-20016

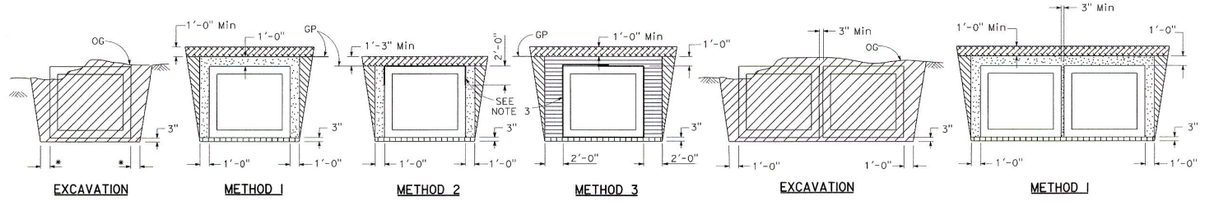
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CONTRACT _____
ACCOUNT _____
DWG. NO. AA 59493D

D 14500 06/03/2022

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Last Opened: Jun 03, 2022 - 4:06pm by: Brent.King



FILL HEIGHT GREATER THAN 2'-0"



FILL HEIGHT 2'-0" OR LESS

* 1'-0" Where Method 1 or 2 Backfill is used.
2'-0" Where Method 3 Backfill is used.

LEGEND:

- STRUCTURE EXCAVATION (CULVERT)
- STRUCTURE BACKFILL (CULVERT) 95% RELATIVE COMPACTION
- ROADWAY EMBANKMENT
- SLURRY CEMENT BACKFILL
- SAND BEDDING (CULVERT)
- ROADWAY PAVEMENT STRUCTURE

NOTES:

1. Slope or shore excavation sides as necessary.
2. Dimensions shown are minimum.
3. Method 2 and 3 for single or multiple boxes requires an approved external sealing band. See Standard Plan D83A.
4. Construction of Roadway Pavement Structure in Method 2 or Method 3 shall not disturb the external sealing band installation.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — Carl W. Dunn — No. C59976 — Exp. 6-30-18 — CIVIL — STATE OF CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

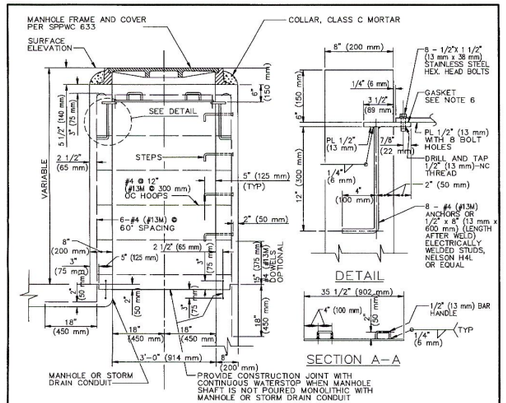
EXCAVATION AND BACKFILL PRECAST REINFORCED CONCRETE BOX CULVERT

NO SCALE

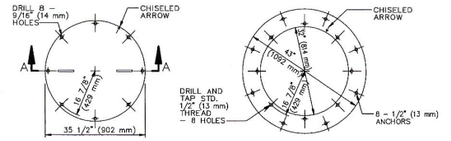
A62G

1-29-18

2018 STANDARD PLAN A62G



VERTICAL SECTION OF SPECIAL PRESSURE MANHOLE SHAFT



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1302 REV. 1998, 2009

PRESSURE MANHOLE SHAFT AND PRESSURE PLATE DETAIL 36" (914 mm) WITHOUT REDUCER

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 329-2 SHEET 1 OF 2

NOTES

1. THIS STRUCTURE MAY BE USED FOR HYDROSTATIC HEADS UP TO 25' (7.5 m) ABOVE THE PRESSURE PLATE.
2. 36" (914 mm) MANHOLE FRAME AND COVER PER SPPWC 633 SHALL BE USED.
3. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 40 AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN. HOOPS MAY BE ELECTRICALLY BUTT WELDED OR THE ENDS LAPPED 18" (450 mm).
4. THE MANHOLE SHAFT SHALL BE LOCATED ABOVE AND IN LINE WITH THE SIDE OF THE CONDUIT BELOW.
5. STEPS SHALL CONFORM TO SPPWC 635 OR 636. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC.
6. GASKET MATERIAL SHALL BE NEOPRENE (OR EQUAL) 1/16" (2 mm) THICK BY 1 1/4" (32 mm) WIDE.
7. BOLTS SHALL BE STAINLESS STEEL CONFORMING TO ASTM A 320 (ASTM A 320M), GRADE B8.
8. PRESSURE PLATE AND PRESSURE PLATE RING SHALL BE STEEL CONFORMING TO ASTM A 36 (ASTM A 36M) AND SHALL BE GALVANIZED. PLATES SHALL BE MARKED IN SETS AND A CHISELED ARROW STAMPED ON BOTH PLATES, AFTER DRILLING AND TAPPING, TO FACILITATE FIELD ASSEMBLY.
9. SEE CONTRACT SPECIFICATIONS FOR PHYSICAL REQUIREMENTS OF WATERSTOP.
10. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:

    633 36" (914 mm) MANHOLE FRAME AND COVER
    635 STEEL STEP
    636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PRESSURE MANHOLE SHAFT AND PRESSURE PLATE DETAIL 36" (914mm) WITHOUT REDUCER

STANDARD PLAN 329-2 SHEET 2 OF 2

CALTRANS # 08-22-6-UT-0007

811 Know what's below. Call 811 before you dig.

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WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE
DETAILS

PM-20016

SHEET 17 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 59498D

D14501 06/03/2022

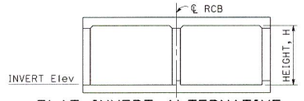
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Last Updated: Jun 03, 2022 - 4:06pm by: BrentJung

SPAN, S		4′				5′				6′				7′				8′			
HEIGHT, H		2′	3′	4′		2′	3′	4′	5′	3′	4′	5′	6′	3′	4′	5′	6′	7′	4′	5′	6′	7′	8′
MAXIMUM EARTH COVER		10′ 20′	10′ 20′	10′ 20′		10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′
Conc	ROOF T_1	7″ 7″	7″ 7½″	7″ 7½″		7″ 7″	7″ 7½″	7″ 7½″	9″ 9″	7″ 7″	7″ 10½″	7″ 10½″	9″ 9″	7″ 7″	7″ 10½″	7″ 10½″	9″ 9″	7″ 10½″	7½″ 11½″	7½″ 11½″	7½″ 11½″	7½″ 11½″	8½″ 11½″
	WALLS T_2	6″ 6½″	6½″ 7″	7″ 7″		8″ 6″	6½″ 6½″	7″ 7½″	7½″ 8″	8″ 6″	8½″ 7½″	10″ 8½″	11″ 9½″	6½″ 7½″	7″ 8½″	7½″ 10″	8½″ 11″	9½″ 12″	7½″ 9½″	8½″ 11″	9½″ 13″	10½″ 13″	11½″ 13″
	INVERT T_3	7″ 7½″	7″ 7½″	7″ 7½″		7″ 7½″	7″ 7½″	9″ 7½″	9″ 9″	7″ 8½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	9½″ 12″	9½″ 12″	9½″ 12″	9½″ 12″	10½″ 13½″
	SPACING	12″ 12″	12″ 12″	12″ 12″		12″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11″ 10½″	11″ 10½″	11″ 10½″	11″ 10½″	11″ 10½″
Reinf	"g" SIZE BAR	#4 #7	#4 #7	#4 #7		#4 #7	#4 #7	#4 #7	#4 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7
	"f" SIZE BAR	#5 #5	#5 #5	#5 #5		#5 #5	#5 #5	#5 #5	#5 #5	#5 #5	#5 #5	#5 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5
	"a" SIZE BAR	#6 #4	#6 #4	#6 #4		#6 #4	#6 #4	#6 #4	#6 #4	#6 #4	#6 #4	#7 #4	#7 #4	#7 #4	#7 #4	#7 #4	#7 #4	#7 #4	#6 #4	#6 #4	#6 #4	#6 #4	#6 #4
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QUANTITIES	CONCRETE CF/LF	14.1 15.1	15.9 17.1	17.9 19.6		16.9 20.5	18.8 22.9	21.7 25.1	24.0 28.5	22.3 29.3	24.3 32.0	26.5 35.6	29.5 38.5	26.8 36.1	29.3 38.3	31.1 41.9	34.0 46.0	38.0 51.3	34.2 46.7	36.9 50.4	39.9 55.2	43.2 59.9	47.7 66.0
	REINFORCEMENT LB/LF	109 109	115 122	130 141		133 130	139 145	156 164	163 192	202 167	218 188	239 213	250 243	237 209	254 232	275 262	287 298	299 317	334 287	345 301	376 317	390 359	406 378
**	SOIL PRESSURE (ksf)	2.1 4.1	2.2 4.1	2.2 4.1		3.2 4.1	3.2 4.1	3.2 4.1	3.3 4.2	3.1 4.1	3.1 4.2	3.1 4.2	3.1 4.2	3.0 4.1	3.0 4.2	3.0 4.2	3.0 4.2	3.1 4.3	2.9 4.2	2.9 4.2	3.0 4.3	3.0 4.3	3.0 4.4

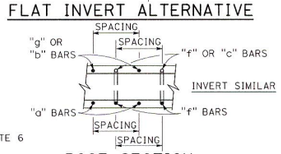
SPAN, S		10′							12′							14′							
HEIGHT, H		5′	6′	7′	8′	9′	10′		6′	7′	8′	9′	10′	11′	12′	7′	8′	9′	10′	11′	12′	13′	14′
MAXIMUM EARTH COVER		10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′		10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′
Conc	ROOF T_1	10½″ 12½″	10½″ 15½″	10½″ 15½″	10½″ 15½″	10½″ 15½″	10½″ 15½″		11½″ 18″	11½″ 18″	11½″ 18″	11½″ 18″	11½″ 18″	11½″ 18″	11½″ 18″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″
	WALLS T_2	8½″ 8½″	8½″ 9½″	8½″ 10½″	9″ 12″	10″ 13½″	11″ 15″		8½″ 9½″	8½″ 10½″	9″ 12″	10″ 13½″	11″ 15″	12½″ 16½″	13½″ 18½″	9″ 11″	9″ 12″	10″ 13½″	11½″ 15″	12½″ 17″	13½″ 18½″	15″ 20″	16½″ 22″
	INVERT T_3	10½″ 16″	10½″ 16″	10½″ 16″	10½″ 16″	10½″ 16″	10½″ 16″		12″ 19″	12″ 19″	12″ 19″	12″ 19″	12″ 19″	12″ 19″	12″ 19″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″
	SPACING	11″ 7½″	10½″ 7½″	10″ 8″	10″ 8″	10½″ 8″	10½″ 8½″		9″ 8″	9″ 8″	8″ 7½″	8″ 7½″	7½″ 8½″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	9″ 8″	9″ 8″
Reinf	"g" SIZE BAR	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7		#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #8	#8 #8	#8 #8	#8 #8	#8 #8	#8 #8	#8 #8	#8 #8
	"f" SIZE BAR	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6		#7 #6	#7 #8	#7 #8	#7 #7	#7 #7	#7 #7	#7 #8	#8 #8	#7 #8	#7 #8	#8 #8	#7 #8	#7 #8	#7 #8	#7 #8	#8 #8
	"a" SIZE BAR	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4		#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #5	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4
	SIZE BAR	#5 #5	#5 #4	#5 #5	#5 #6	#5 #6	#6 #6		#6 #6	#6 #6	#6 #6	#6 #6	#6 #6	#5 #6	#6 #6	#6 #6	#6 #5	#6 #6	#6 #5	#6 #5	#6 #6	#6 #6	#7 #7	#7 #7
	"b" Dim "B" ft-inch	1-9 2-7	2-0 2-9	2-3 2-9	2-7 3-1	2-7 3-1	2-7 3-1		2-7 3-1	3-0 3-2	3-6 3-2	3-6 3-4	3-9 3-4	3-9 3-4	3-9 3-4	3-4 2-7	2-7 3-3	3-3 3-4	4-0 4-0	4-0 4-0	4-7 4-4	4-7 4-11	5-3 4-11	5-3 4-11
	Dim "Bw" ft-inch	4-0 4-11	4-0 4-11	4-0 4-11	4-0 4-11	4-0 4-11	4-0 4-11		4-0 4-11	4-0 4-11	4-1 3-4	4-1 3-4	4-1 3-7	3-9 3-7	3-7 3-7	3-9 3-7	3-7 3-7	3-7 3-7	5-0 3-9	5-0 4-6	5-0 5-0	5-0 5-0	4-9 5-6	4-9 6-2	5-2 6-2	5-2 6-2
	"c" SIZE BAR	#5 #6	#6 #6	#6 #6	#6 #6	#6 #6	#7 #7		#6 #6	#6 #6	#6 #6	#6 #6	#6 #6	#7 #7	#7 #7	#7 #6	#6 #6	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#8 #8
	Dim "C" ft-inch	3-1 2-9	3-9 3-3	4-6 4-3	5-6 4-6	6-0 4-9	6-0 4-9		3-10 3-7	4-6 4-4	5-7 5-0	6-6 5-2	7-2 5-4	7-5 5-7	7-5 5-7	4-3 3-11	5-6 5-2	7-9 5-8	8-6 6-5	8-10 6-6	9-0 6-10	9-3 6-10	9-3 6-10	
*	"e" SIZE BAR	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#5 #5		#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#5 #5	#5 #5	#5 #4	#4 #4	#4 #4	#4 #4	#4 #4	#5 #5	#5 #5	#5 #6	#6 #6
QUANTITIES	CONCRETE CF/LF	49.1 68.4	51.1 71.9	53.2 75.8	56.1 80.8	60.1 86.4	64.4 92.5		63.6 94.4	65.7 98.4	68.6 104	72.6 109	76.9 115	82.6 122	87.7 131	88.8 124	84.0 129	88.0 134	93.4 141	98 149	103 156	110 164	117 174
	REINFORCEMENT LB/LF	393 520	427 542	473 538	509 559	534 599	568 636		563 686	584 711	691 721	715 745	700 764	767 867	804 890	734 878	785 919	842 956	892 985	916 1015	964 1120	980 1141	1095 1269
**	SOIL PRESSURE (ksf)	2.8 4.8	2.8 4.9	2.9 4.9	2.9 4.9	2.9 4.9	2.9 5.0		2.8 4.8	2.8 4.9	2.8 4.9	2.8 4.9	2.8 4.9	2.9 5.0	2.9 5.0	2.8 4.8	2.8 4.9	2.8 4.9	2.8 4.9	2.8 5.0	2.9 5.0	2.9 5.0	2.9 5.0	2.9 5.1

NOTES:

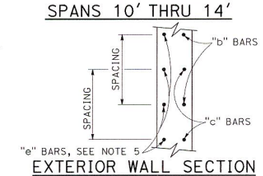
1. For boxes with span or height less than any of those shown in table, use next greater size box concrete dimensions and reinforcement. Make necessary changes in bar lengths and quantities.
2. For boxes with span or height or cover greater than those shown in tables, a special design is required.
3. Quantities are approximate and for design purposes only.
4. It is permissible to eliminate the 180° hooks on every other "e" bar.
5. "e" bars are at half spacing.
6. Provide paving notch when top is exposed and when pavement is concrete, and adjust quantities.
7. For design and details not shown, see Standard Plan D82.
8. This plan sheet may be used for multiple cell culverts by making necessary adjustments.
9. Soil pressures shown are factored per AASHTO LRFD and include soil weight of fill over box, self weight of box and live load where applicable.



FLAT INVERT ALTERNATIVE



ROOF SECTION
SPANS 10′ THRU 14′



EXTERIOR WALL SECTION
SPANS 10′ THRU 14′

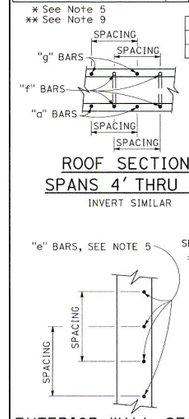
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE REINFORCED CONCRETE DOUBLE BOX CULVERT

NO SCALE

D81

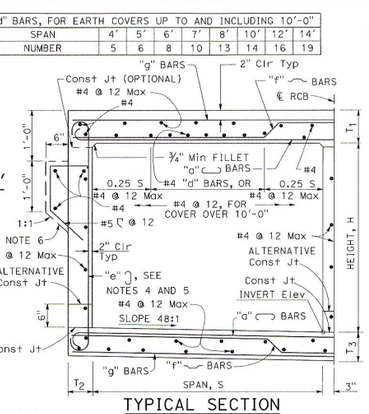
1-29-18



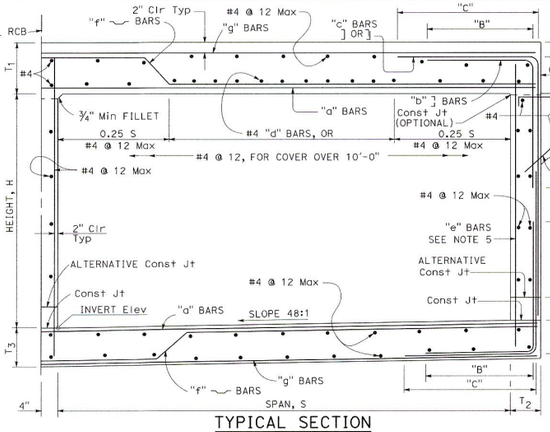
ROOF SECTION
SPANS 4′ THRU 8′
INVERT SIMILAR

EXTERIOR WALL SECTION
SPANS 4′ THRU 8′

"d" BARS, FOR EARTH COVERS UP TO AND INCLUDING 10′-0"							
SPAN	4′	5′	6′	7′	8′	10′	12′	14′
NUMBER	5	6	8	10	13	14	16	19



TYPICAL SECTION
SPANS 4′ THRU 8′



TYPICAL SECTION
SPANS 10′ THRU 14′

CONTINGENCY PLAN
(DEFORMATION LIMITS AND CORRECTIVE ACTION)

A. DEFORMATION LIMITS IDENTIFIED HEREIN AS THRESHOLD VALUES, CONTRACTOR CORRECTIVE ACTION VALUES, AND PROJECT SHUTDOWN VALUES FOR VARIOUS FEATURES BEING MONITORED ARE PROVIDED IN TABLE 1, RESPONSE VALUES OF MEASURED DEFORMATION.
B. CONTRACTOR'S CORRECTIVE ACTIONS, AS REQUIRED HEREIN, SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
C. WHEN ANY OF THOSE ESTABLISHED MONITORING POINT'S MEASUREMENT INDICATES MOVEMENT EQUALS TO 50 PERCENT OF THE SHUTDOWN VALUE HAS OCCURRED, THE THRESHOLD VALUE IS SAID TO HAVE BEEN REACHED. AT THIS TIME, THE CONTRACTOR SHALL MEET WITH THE DEPARTMENT TO DISCUSS HIS/HER CONSTRUCTION MEANS AND METHODS TO DETERMINE WHAT CHANGES, IF ANY, SHALL BE MADE TO BETTER CONTROL GROUND MOVEMENT AND PREVENT DEFORMATION OF MONITORED FEATURES. MEASUREMENTS SHALL BE REQUIRED EVERY 2–HOURS, UNLESS MORE STRINGENTLY SPECIFIED, UNTIL FIVE CONSECUTIVE WORKING DAYS OF READINGS OBSERVED BEING BELOW THE THRESHOLD VALUE.
D. WHEN ANY OF THOSE ESTABLISHED MONITORING POINT'S MEASUREMENT INDICATES MOVEMENT EQUALS TO 75 PERCENT OF THE SHUTDOWN VALUE HAS OCCURRED, CONTRACTORS CORRECTIVE ACTION VALUE IS SAID TO HAVE BEEN REACHED. AT THIS TIME, THE CONTRACTOR SHALL ACTIVELY CONTROL GROUND MOVEMENT IN ACCORDANCE WITH THE APPROVED PLAN TO PREVENT DEFORMATION BEYOND THE CONTRACTOR CORRECTIVE ACTION VALUE. MEASUREMENTS SHALL BE REQUIRED EVERY 2–HOURS, UNLESS MORE STRINGENTLY SPECIFIED, UNTIL FIVE CONSECUTIVE WORKING DAYS OF READINGS OBSERVED BEING BELOW THE THRESHOLD VALUE.
E. WHEN ANY OF THOSE ESTABLISHED MONITORING POINT'S MEASUREMENT INDICATES MOVEMENT EQUALS TO 100 PERCENT OF THE SHUTDOWN VALUE HAS OCCURRED, THE SHUTDOWN VALUE IS SAID TO HAVE BEEN REACHED. AT THIS TIME, THE CONTRACTOR SHALL STOP ALL EXCAVATION WORK IMMEDIATELY, AND SHALL CONTINUE IMPLEMENTING MEASURES TO PREVENT FURTHER DEFORMATIONS, AND SHALL MEET THE DEPARTMENT TO DEVELOP A PLAN OF ACTION BEFORE EXCAVATION WORK CAN BE RESUMED.

PROTECTION AND PLACEMENT

A. ALL INSTRUMENTS AND INSTRUMENTATION POINTS SHALL BE PROTECTED FROM DAMAGE.
B. ALL INSTRUMENTS AND INSTRUMENTATION POINT DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS, WEATHER, TRAFFIC, OR VANDALISM SHALL BE REPAIRED OR REPLACED AND RE–INSTALLED AT NO ADDITIONAL COST PRIOR TO CONTINUING TUNNELING, OR AS REQUIRED BY THE DEPARTMENT.

TABLE 1 - RESPONSE VALUES OF MEASURED DEFORMATION				
INSTRUMENTATION DEVISE	MONITORED FEATURE	THRESHOLD VALUE (FEET)	CONTRACTOR CORRECTIVE ACTION VALUE (FEET)	SHUTDOWN VALUE (FEET)
TOTAL MOVEMENT OF INDIVIDUAL SETTLEMENT MONUMENTS	ROADWAY (SR-83 BETWEEN PM 3.92-4.42	0.01	0.015	0.02

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — 7/28/22 DATE
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER FOR — 7/28/22 DATE

CITY OF CHINO

RECOMMENDED BY: CITY ENGINEER — 8/8/22 DATE

BENCH MARK No. GG–18–1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG–18–1," SET ON TOP OF CURB. APPROX 5' +/– SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA ROSE MACKINNEY — No. 85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989–9789 FAX: (909) 989–9660
SIGNATURE: SIARA A. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE
DETAILS

CALTRANS # 08-22-6-UT-0007

PM-20016

SHEET 18 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 594985

D14502 06/03/2022

Drawing Name: P:\Year_2020\2020-015 REDA, Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11_21_2020-015_SD_DET.dwg
Last Opened: Jun 03, 2022 - 4:06pm by: Brent.King

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT SURVEY GRID
TR-0151 (REV. 09/2006)

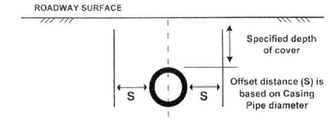
LEGEND:

- Octagon Data Points required when the diameter is < 8′.
- Octagon & Triangle Data Points required when the diameter is > 8′.
- Settlement Rod may be required when the diameter is > 5′. (Settlement Rod Detail is located in Appendix E of the Encroachment Permits Manual)
- EP — Edge of Pavement
- ETW — Edge of Travel Way (Fog line, Yellow Stripe, etc.)
- S — Offset Distance away from the pipe alignment, as follows:
  - 3′ for casing pipe diameters < 30″
  - 5′ for casing pipe diameters 30″ - 72″
  - 10′ for casing pipe diameters 72″ - 108″
  - 15′ for casing pipe diameters > 108″

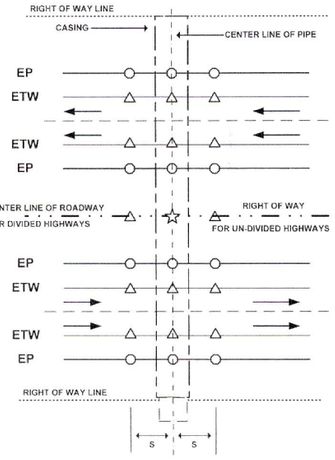
NOTES:

Survey data is to be collected at the specific points along the casing alignment at the following times:

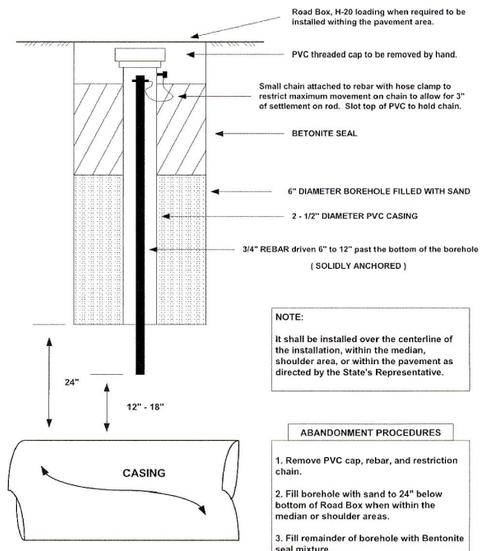
1. Prior to Start of Work.
2. Every two (2) hours continuously throughout the project.
3. Upon completion of the project.
4. Every two (2) months, during a six month period after the date of completion, and or As Required by the Department.



PROFILE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT SETTLEMENT ROD DETAIL
TR-0152 (REV. 09/2006)



NOTE:

It shall be installed over the centerline of the installation, within the median, shoulder area, or within the pavement as directed by the State's Representative.

ABANDONMENT PROCEDURES

1. Remove PVC cap, rebar, and restriction chain.
2. Fill borehole with sand to 24" below bottom of Road Box when within the median or shoulder areas.
3. Fill remainder of borehole with Bentonite seal mixture.
4. Remove Road Box and back fill with an approved backfill.

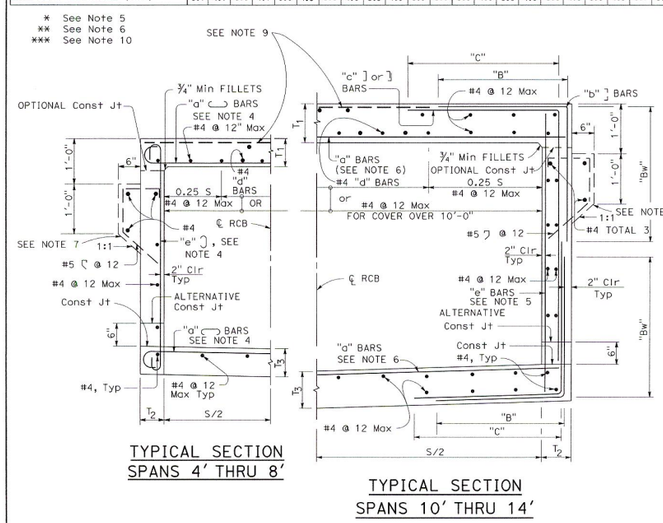
2018 STANDARD PLAN D81

SPAN, S		4'			5'			6'				7'				8'				
HEIGHT, H		2'	3'	4'	2'	3'	4'	5'	3'	4'	5'	6'	3'	4'	5'	6'	7'	4'	5'	6'	7'	8'
MAXIMUM EARTH COVER		10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'
Conc	ROOF T_1	7" 7½"	7" 7½"	7" 7½"	7" 7½"	7½" 8"	7½" 8"	7½" 8"	8" 9"	8" 9"	8" 9"	8" 9"	8" 10"	8" 10"	8" 10"	8" 10"	8½" 10½"	8½" 10½"	8½" 10½"	8½" 10½"	8½" 11½"	8½" 11½"
	WALLS T_2	6" 6"	6" 6½"	6½" 6½"	7" 7½"	6" 6"	6" 6½"	6½" 6½"	7" 7"	7" 7"	7" 7"	7½" 8"	8" 9½"	8" 9½"	8" 11"	9" 12½"	6½" 7½"	7" 8"	7½" 9½"	8½" 11"	9" 12½"	
	INVERT T_3	7" 7½"	7" 7½"	7" 7½"	7½" 8"	8" 11½"	8" 11½"	8" 11½"	8" 9"	8" 9"	8" 9½"	8" 9½"	8" 10½"	8" 10½"	8" 10½"	8½" 12"	8½" 11½"	8½" 11½"	8½" 11½"	8½" 12"	8½" 12"	
Reinf	SPACING	7" 6"	7" 6"	7" 6"	8½" 6"	8½" 5½"	8" 5½"	8" 5"	7½" 5"	7½" 5"	7" 5"	7" 4½"	6" 4½"	6" 4½"	6" 5½"	6" 5½"	6" 5½"	5½" 5"	5½" 5"	5" 5"	5" 4½"	5½" 4½"
	"a" SIZE BAR	#6 #6	#6 #6	#6 #6	#7 #7	#7 #7	#7 #7	#7 #7	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7
	"e" SIZE BAR	#4 #4	#4 #5	#6 #5	#6 #4	#4 #4	#5 #5	#5 #6	#6 #6	#6 #7	#6 #7	#6 #7	#4 #4	#5 #5	#6 #6	#7 #7	#7 #7	#7 #7	#5 #6	#6 #6	#7 #7	#7 #7
QUANTITIES	CONCRETE CF/LF	7.8 8.3	9.2 9.6	10.7 11.6	9.5 10.0	10.9 11.4	12.4 12.9	14.1 15.1	13.1 14.3	14.2 15.4	15.9 18.0	17.8 21.2	14.0 17.5	15.1 19.1	16.7 21.1	18.8 24.5	21.8 28.3	17.2 22.7	18.8 25.1	20.6 28.3	23.3 32.1	25.5 36.4
	REINFORCEMENT LB/LF	47.7 51.1	57.8 71.4	63.5 80.8	57.8 73.7	66.6 92.5	83.0 111	101 114	77.6 94.7	96.6 114	110 126	132 152	102 106	115 124	134 166	160 181	173 196	135 166	156 177	184 208	197 252	209 269
*** SOIL PRESSURE (ksf)		2.4 4.5	2.4 4.5	2.5 4.6	2.4 4.5	2.4 4.5	2.5 4.6	2.5 4.6	2.4 4.6	2.5 4.6	2.5 4.7	2.4 4.6	2.4 4.6	2.4 4.6	2.5 4.6	2.5 4.7	2.5 4.7	2.6 4.8	2.4 4.6	2.5 4.7	2.5 4.7	2.6 4.8	2.6 4.9

SPAN, S		10'						12'							14'									
HEIGHT, H		5'	6'	7'	8'	9'	10'	6'	7'	8'	9'	10'	11'	12'	7'	8'	9'	10'	11'	12'	13'	14'		
MAXIMUM EARTH COVER		10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'		
Conc	ROOF T_1	9½" 12"	9½" 12"	9½" 12"	9½" 12"	9½" 12"	9½" 12"	10½" 14½"	10½" 14½"	10½" 14½"	10½" 14½"	10½" 14½"	10½" 14½"	10½" 14½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"		
	WALLS T_2	8½" 8½"	8½" 9½"	9" 10½"	9" 12"	10" 13½"	11" 15"	9" 10½"	9" 10½"	9½" 12"	10" 13½"	11" 15"	11" 15"	11½" 15"	9½" 11"	9½" 12"	10" 13½"	11½" 15"	12½" 16½"	13½" 18"	15" 19½"	16½" 21½"		
	INVERT T_3	10" 12½"	10" 12½"	10" 12½"	10" 13"	10" 13"	10" 13"	11" 14½"	11" 15"	11" 15"	11" 15"	11" 15"	11½" 15"	11½" 15½"	12½" 17"	12½" 17"	12½" 17"	12½" 17"	12½" 17"	12½" 17½"	13" 18"	13" 18"		
Reinf	SPACING	11" 12"	12" 12"	11" 11"	10" 11"	10" 10"	11" 10"	9" 10"	9" 10"	9" 10"	10" 8"	10" 8"	10" 8"	9" 8"	10" 9"	10" 8"	9" 8"	8" 8"	10" 10"	10" 10"	10" 10"	10" 9"		
	**"a" SIZE BAR	#7 #8	#7 #8	#7 #8	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #7	#7 #8	#7 #8	#7 #7	#7 #7	#7 #6	#8 #7	#7 #7	#7 #7	
	"b" SIZE BAR	#7 #7	#7 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#7 #8	#7 #8	#7 #8	#6 #7	#7 #7	#7 #7	#7 #7	#7 #8	#7 #7	#7 #8	#7 #8	#8 #8	#8 #8	
	DIMENSION "B" ft-inch	2-11 2-11	2-11 3-0	2-11 3-0	2-11 3-9	2-11 3-9	2-11 3-9	2-11 3-9	3-1 3-2	3-9 3-9	3-9 3-9	3-7 3-9	3-7 4-4	3-7 4-4	4-4 4-4	4-4 4-4	4-4 4-4	2-9 4-2	3-4 4-4	3-4 4-4	3-4 4-6	3-5 4-6	3-6 4-6	
	DIMENSION "Bw" ft-inch	4-10 5-0	4-10 5-0	4-10 5-0	4-10 5-0	4-10 5-0	4-10 5-0	4-10 5-0	5-10 6-2	6-7 6-2	6-7 6-2	6-7 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11		
	"c" SIZE BAR #	#6 #7	#6 #7	#7 #6	#7 #6	#7 #7	#7 #7	#7 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#8 #8	#8 #8
	DIMENSION "c" ft-inch	3-4 3-6	7-4 4-8	7-7 4-8	8-2 4-8	7-7 5-2	7-7 5-11	4-4 3-10	8-1 5-7	8-1 5-7	8-1 5-7	8-1 5-7	8-1 6-4	8-1 6-4	6-10 4-3	4-2 6-9	6-9 5-10	5-10 6-0	6-4 8-11	6-4 8-11	7-0 8-11	7-7 8-11	7-9	
	*"e" SIZE BAR	#4 #4	#4 #5	#6 #6	#6 #6	#7 #7	#7 #8	#8 #8	#4 #4	#4 #4	#4 #4	#5 #4	#5 #5	#6 #6	#6 #6	#4 #4	#4 #4	#4 #4	#4 #4	#5 #5	#5 #5	#5 #5	#6 #7	#7 #7	#7 #7	
QUANTITIES	CONCRETE CF/LF	25.1 30.4	27.1 33.1	29.2 36.2	30.7 41	34 45.8	37.6 51	33.2 43.7	34.7 46.1	37 50.4	39.5 55.3	43.7 60.6	48.7 67.1	53.1 73.5	42.9 57	44.5 60.7	47 65.6	51.7 71.8	55.8 77.1	60.9 84.2	66.9 91.8	73.4 101		
	REINFORCEMENT LB/LF	271 296	278 333	341 366	359 406	428 469	487 530	322 371	379 417	390 449	430 477	499 500	527 610	530 614	413 529	467 595	467 608	526 632	633 651	630 717	688 737	747 861		
*** SOIL PRESSURE (ksf)		3.7 4.7	3.8 4.7	3.8 4.8	3.8 4.8	3.9 4.9	3.9 5.0	3.6 4.8	3.6 4.8	3.6 4.9	3.6 4.9	3.7 5.0	3.7 5.0	3.8 5.1	3.4 4.9	3.5 4.9	3.5 4.9	3.5 4.9	3.5 5.0	3.6 5.1	3.6 5.1	3.7 5.2	3.7 5.3	

"d" BARS, FOR EARTH COVERS UP TO AND INCLUDING 10'-0"									
SPAN	4'	5'	6'	7'	8'	10'	12'	14'
NUMBER	7	8	9	10	11	12	15	20

* See Note 5
** See Note 6
*** See Note 10

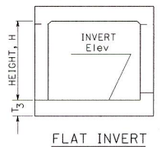


TYPICAL SECTION
SPANS 4' THRU 8'

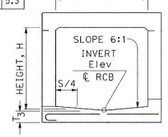
TYPICAL SECTION
SPANS 10' THRU 14'

ROOF SECTION
SPANS 10' THRU 14'
INVERT SIMILAR

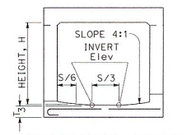
WALL SECTION
SPANS 10' THRU 14'



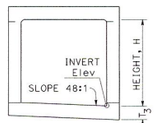
FLAT INVERT



V INVERT



TRAPEZOIDAL INVERT



SLOPED INVERT

ALTERNATIVE INVERTS

NOTES:

1. For boxes with span or height less than any of those shown in table, use next greater size box concrete dimensions and reinforcement. Make necessary changes in bar lengths and quantities.
2. Quantities are approximate and for design purposes only.
3. For boxes with span or height or cover greater than those shown in tables, a special design is required.
4. It is permissible to eliminate the 180° hooks on every other bar.
5. "e" bars are at half spacing (spans 10' - 14' only).
6. "a" bars are at half spacing (spans 10' - 14' only).
7. Provide paving notch when top is exposed and when pavement is concrete, and adjust quantities.
8. For design and details not shown, see Standard Plan D82.
9. For exposed top, provide #4 @ 12 each way, lap "c" bars 2'-0" or use full span length.
10. Soil pressures shown are factored per AASHTO LRFD and include soil weight of fill over box, self weight of box and live load where applicable.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE REINFORCED CONCRETE SINGLE BOX CULVERT

NO SCALE

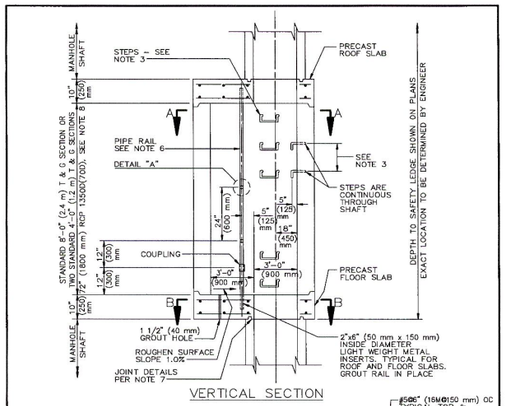
D80

1-29-18

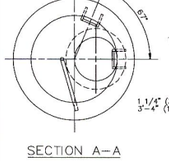
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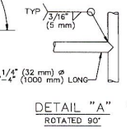
REGISTERED CIVIL ENGINEER
May 31, 2018
PLANS APPROVAL DATE
Carl M. Dunn
No. C59976
Exp. 6-30-18
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

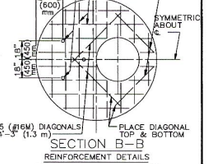
2018 STANDARD PLAN D80



VERTICAL SECTION







STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1992 REV. 1996, 2009

MANHOLE SHAFT SAFETY LEDGE

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 330–2 SHEET 1 OF 2

NOTES

1. MANHOLE SHAFT SAFETY LEDGE WILL BE NOTED ON THE PLANS WHEN REQUIRED. IT IS TO BE CONSTRUCTED WHEN DEPTH OF MANHOLE TO INVERT IS GREATER THAN 20' (6 m) AND MANHOLE SHAFT IS GREATER THAN 10' (3 m).
2. A SAFETY LEDGE SHALL NOT BE USED IF A PRESSURE MANHOLE IS REQUIRED.
3. STEPS SHALL CONFORM TO SPPWC 635 OR 636 AND SHALL BE ANCHORED 4" (100 mm) IN THE WALL OF THE STRUCTURE. STEPS SHALL BE PLACED TO MATCH THE SPACING OF THE MANHOLE SHAFT.
4. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 40 (ASTM A 615M, GRADE 300) AND SHALL TERMINATE 2" (50 mm) CLEAR OF CONCRETE SURFACE UNLESS OTHERWISE SHOWN.
5. GROUT HOLES, PIPE AND FITTINGS SHALL BE PROVIDED IN THE FLOOR SLAB. PRESSURE GROUTING SHALL BE USED TO FILL VOIDS AND TO SECURE UNIFORM BEARING. THE GROUT SHALL BE NEAT CEMENT GROUT AND GROUTING PRESSURES SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER.
6. PIPE RAIL SHALL BE FABRICATED OF 1 1/4" (32 mm) STANDARD GALVANIZED PIPE COMPOSED OF TWO SECTIONS 7'–6" (2.25 m) & 18" (450 mm) IN LENGTH JOINED BY A GALVANIZED COUPLING. THE COUPLING SHALL BE THREADED A MINIMUM OF 2" (50 mm) ON EACH PIPE LENGTH.
7. ROOF AND FLOOR SLABS SHALL BE PRECAST AND KEYED FOR REINFORCED CONCRETE PIPE SECTIONS AS SHOWN. ALL JOINTS SHALL BE FILLED WITH CLASS C MORTAR AND NEATLY POINTED OR WIPED ON THE INSIDE.
8. 72" (1800 mm) RCP SHALL BE PROVIDED WITH TWO CIRCULAR CAGES OF REINFORCEMENT.
9. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:

   324 MANHOLE SHAFT – WITH ECCENTRIC REDUCER
   326 MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER
   635 STEEL STEP
   636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

MANHOLE SHAFT SAFETY LEDGE

STANDARD PLAN 330–2 SHEET 2 OF 2

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/28/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/29/22

CITY OF CHINO

RECOMMENDED BY: CITY ENGINEER — DATE 8/8/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

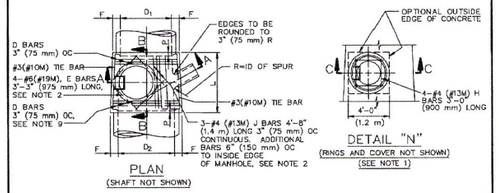
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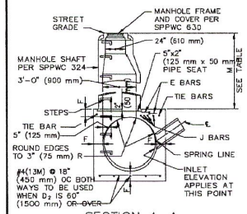
SHEET 19 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

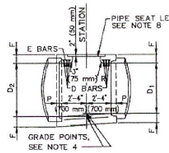
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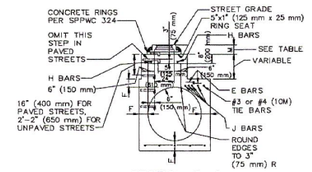
D14503 06/03/2022

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Last Opened: Jun 10, 2022 - 4:09pm by: BrentKing









STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1992 REV. 1996, 2009

MANHOLE PIPE-TO-PIPE
MAIN LINE ID=36" (900 mm) OR LARGER
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 320-2
SHEET 1 OF 4

NOTES

1. WHEN DEPTH M FROM STREET GRADE TO THE TOP OF THE BOX IS LESS THAN 2'-10 1/2" (867 mm) FOR PAVED STREETS OR 3'-6" (1060 mm) FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT PER SECTION C-C AND DETAIL "N". SHAFT FOR ANY DEPTH OF MANHOLE MAY BE CONSTRUCTED PER SECTION C-C. WHEN DIAMETER D_1 IS 48" (1200 mm) OR LESS, CENTER OF SHAFT MAY BE LOCATED PER NOTE 2.
2. CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTER LINE OF STORM DRAIN WHEN DIAMETER D_1 IS 48" (1200 mm) OR LESS, IN WHICH CASE PLACE E BARS SYMMETRICALLY AROUND SHAFT AT 45° WITH CENTERLINE AND OMIT J BARS.
3. L AND P SHALL HAVE THE FOLLOWING VALUES UNLESS OTHERWISE SHOWN ON THE PROJECT DRAWINGS:
   A. D_2=96" (2400 mm) OR LESS, L=5'-6" (1.7 m), P=5" (130 mm)
   B. D_2 OVER 96" (2400 mm), L=6'-0" (1.8 m), P=8" (210 mm)
   L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS. WHEN L GREATER THAN THAT SHOWN ABOVE IS SPECIFIED, D BARS SHALL BE CONTINUED 6" (150 mm) OC.
4. STATIONS OF MANHOLES SHOWN ON PLANS APPLY AT CENTERLINE OF SHAFT. ELEVATIONS ARE SHOWN AT CENTERLINE OF SHAFT AND REFER TO THE PROLONGED INVERT GRADE LINES.
5. REINFORCEMENT SHALL CONFORM TO ASTM A 615M, GRADE 300 (ASTM A 615, GRADE 40), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
6. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
7. BODY OF MANHOLE SHALL BE POURED IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT SPRING LINE.
8. THICKNESS OF THE DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL SEAT BUT SHALL NOT BE LESS THAN THE TABULAR VALUES FOR F SHOWN ON SHEET 2.
9. D BARS SHALL BE #4 (#13M) FOR D_2=39" (975 mm) OR LESS, #5 (#16M) FOR D_2= 42" (1050 mm) TO 84" (2100 mm) INCLUSIVE AND #6 (#19M) FOR D_2= 90" (2250 mm) OR OVER.
10. CENTERLINE OF INLET PIPE SHALL INTERSECT INSIDE FACE OF CONE AT SPRING LINE UNLESS OTHERWISE SHOWN.
11. STEPS SHALL CONFORM TO SPPWC 635 OR 636. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC. THE LOWEST STEP SHALL NOT BE MORE THAN 24" (600 mm) ABOVE THE INVERT.
12. THE FOLLOWING CRITERIA SHALL BE USED FOR THIS MANHOLE:
   A. MAIN LINE = 36" (900 mm) INSIDE DIAMETER OR LARGER, EXCEPT IF THE MAIN LINE RCP DOWNSTREAM OF MANHOLE IS 36" (900 mm) TO 42" (1050 mm) INSIDE DIAMETER AND THE MAIN LINE RCP UPSTREAM IS 33" (825 mm) OR LESS SPPWC 321 SHALL BE USED.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE
MAIN LINE ID = 36" (900 mm) OR LARGER
STANDARD PLAN 320-2
SHEET 3 OF 4

TABLE OF VALUES FOR F	
D_2	F
36" (900 mm)	6 1/2" (165 mm)
39" (975 mm)	7" (180 mm)
42" (1050 mm)	7 1/2" (190 mm)
45" (1125 mm)	7 3/4" (195 mm)
48" (1200 mm)	8" (205 mm)
51" (1275 mm)	8 1/2" (215 mm)
54" (1350 mm)	9" (230 mm)
57" (1425 mm)	9 1/4" (235 mm)
60" (1500 mm)	9 1/2" (240 mm)
63" (1575 mm)	10" (255 mm)
66" (1650 mm)	10 1/4" (260 mm)
69" (1725 mm)	10 3/4" (275 mm)
72" (1800 mm)	11" (280 mm)
78" (1950 mm)	11 3/4" (300 mm)
84" (2100 mm)	12 1/2" (320 mm)
90" (2250 mm)	13 1/4" (335 mm)
96" (2400 mm)	14" (355 mm)
102" (2550 mm)	15 1/2" (395 mm)
108" (2700 mm)	16" (405 mm)
114" (2850 mm)	16 1/2" (420 mm)
120" (3000 mm)	17" (430 mm)
126" (3150 mm)	17" (430 mm)
132" (3300 mm)	17 1/2" (445 mm)
138" (3450 mm)	17 1/2" (445 mm)
144" (3600 mm)	18" (455 mm)

TABLE OF VALUES FOR M (SEE NOTE 1)				
SECTION	PAVED STREET		UNPAVED STREET	
	MAX	MIN	MAX	MIN
A-A		2'-10 1/2" (867 mm)		3'-6" (1060 mm)
C-C	11" (282 mm)	8 1/2" (217 mm)	16" (410 mm)	15" (380 mm)

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE
MAIN LINE ID = 36" (900 mm) OR LARGER
STANDARD PLAN 320-2
SHEET 2 OF 4

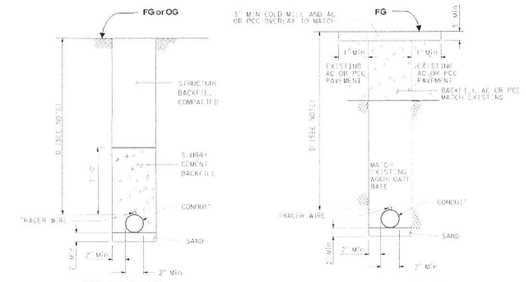
B. THE OUTSIDE DIAMETER OF THE LATERAL MUST BE LESS THAN OR EQUAL TO 1/2 THE INSIDE DIAMETER OF THE MAIN LINE. IF THE UPSTREAM AND DOWNSTREAM DIAMETERS OF THE MANHOLE ARE NOT THE SAME, THE GOVERNING INSIDE DIAMETER OF THE MAIN LINE SHALL BE CONSIDERED TO BE THAT WHERE THE EXTENDED CENTERLINE OF THE LATERAL ENTERS THE MANHOLE.
C. IN NO INSTANCE SHALL THE INSIDE DIAMETER OF THE LATERAL TO THE MANHOLE BE GREATER THAN 30" (750 mm).

13. MANHOLE FRAME AND COVER SHALL CONFORM TO SPPWC 630 UNLESS OTHERWISE SHOWN.
14. MANHOLE SHAFT SHALL CONFORM TO SPPWC 324 UNLESS OTHERWISE SHOWN.
15. WHERE A MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 326.
16. WHERE A PRESSURE MANHOLE SHAFT – WITH ECCENTRIC REDUCER IS SPECIFIED REFER TO SPPWC 328.
17. WHERE A PRESSURE MANHOLE SHAFT – 914 mm (36") WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 329.
18. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:
    324 MANHOLE SHAFT – WITH ECCENTRIC REDUCER
    326 MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER
    328 PRESSURE MANHOLE SHAFT – WITH ECCENTRIC
    329 PRESSURE MANHOLE SHAFT 36" (914 mm) WITHOUT REDUCER
    630 24" (610 mm) MANHOLE FRAME AND COVER
    633 36" (914 mm) MANHOLE FRAME AND COVER
    635 STEEL STEP
    636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE
MAIN LINE ID = 36" (900 mm) OR LARGER
STANDARD PLAN 320-2
SHEET 4 OF 4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT TRENCH DETAIL
TR-0153(Rev. 11/2019) Page 1 of 2

TYPICAL TRENCH DETAIL (NOT TO SCALE)



Notes: D - Depth of cover as identified & approved based on submitted plans.

FG - Finish Grade.

OG - Original Ground.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT TRENCH DETAIL
TR-0153(Rev. 11/2019) Page 2 of 2

- **All work must be authorized by the encroachment permit, and/or as directed by the State's representative.**
- **A tracer wire must be placed on top of the conduit unless specified not to.**
- **Clearance between the trench wall and encroachment work less than 6 inches in width shall be a minimum of 2 inches. Clearance between the trench wall and encroachment work greater than 6 inches width shall be a minimum of 6 inches.**
- **When the trench width is less than 2' the backfill for subgrade must consist of either slurry cement or Controlled Low-Strength Material (CLSM).**
- **When trench width is greater than 2' compacted aggregate base may be used for backfill.**
- **Structure backfill must conform to Section 19-3.02C of the Standard Specifications.**
- **For trench located under unimproved surface, structure backfill can use the original soil. Soil must be compacted by mechanical means. Ponding, jetting or flooding are not allowed. Slurry cement backfill is optional at the discretion of the Caltrans District.**
- **Slurry cement backfill must conform to Section 19-3.02E of the Standard Specifications.**
- **Aggregate base shall conform to Section 26 of the Standard Specifications.**
- **CLSM must conform to Section 19-3.02G of the Standard Specifications. When CLSM is utilized the mix design and test results must be submitted to the State's representative. See Appendix H of the Encroachment Permits Manual for additional information.**
- **Cold planed surface and overlay shall be to the nearest lane line for the entire length of the trench/disturbed areas, and/or as directed by the State's representative.**
- **A paving notch ("T" Cut) shall be cold planed in exist asphalt concrete to a minimum width of 1.0' beyond each side of the trench and to a depth of 3" for the final layer of HMA.**
- **HMA or PCC to replace pavement section shall match existing pavement depth, unless directed otherwise by the State's representative.**
- **Hot mix asphalt must conform to Section 39 of the Standard Specifications.**
- **A tack coat of asphaltic emulsion conforming to Section 39-2.01C (3) (f) shall be applied.**
- **When the trench is within 4' of curb and gutter, additional cold planing may be required at the discretion of the State's representative.**
- **Pavement markings and/or striping removed or damaged during construction must be replaced as directed by the State's representative.**
- **Other trench related details are shown in Chapter 6 of the Encroachment Permits Manual as well as the Trenching and Shoring Manual. Both publications can be found on the State of California, Department of Transportation's website.**

811 Know what's below. Call 811 before you dig.

CITY OF CHINO
RECOMMENDED BY: _____ CITY ENGINEER 8/8/22 DATE

CITY OF ONTARIO
RECOMMENDED BY: _____ BRIAN LIRLEY, P.E., ASSISTANT CITY ENGINEER 7/28/22 DATE
ACCEPTED BY: _____ for KHOI DO, P.E., CITY ENGINEER 7/28/22 DATE

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER SIARA REZE MACKINNEY No.85559 Exp. 9/30/2022 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. 85559 R.C.E. NO. 6/22/22 DATE

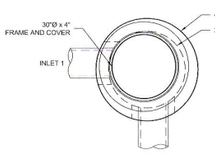
REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

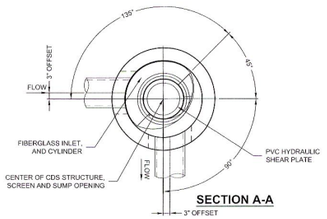
STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

CALTRANS # 08-22-6-UT-0007
PM-20016
SHEET 20 OF 21
CONTRACT _____
ACCOUNT _____
DWG. NO. AA 59493D
D14584 06/03/2022

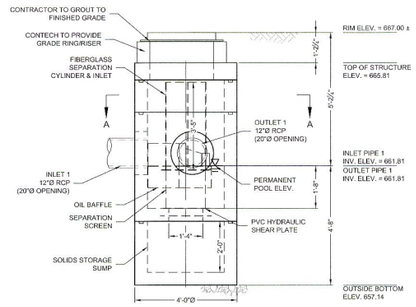
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Last Opened: Jun 03, 2022 - 4:06pm by: Brent.King



PLAN VIEW



SECTION A-A



ELEVATION VIEW

MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	FIBERGLASS INLET AND CYLINDER	CONTECH
1	4700 micron, 1.5' O.D. x 1.5' SEP. SCREEN	CONTECH
1	3/16 INCH PVC HYDRAULIC SHEAR PLATE *	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
1 PLC	GRADE RINGS/RISERS	CONTRACTOR
1	30"Ø x 4" FRAME & COVER, EJ#0018101119A01, OR EQUIV.	CONTRACTOR

* SEE HYDRAULIC SHEAR PLATE DETAIL

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
6. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 4000 LBS.
STRUCTURE IS DELIVERED IN 4 PIECES

MAX FOOTPRINT = Ø4'

CONTECH
CONTRACT
DRAWING

CDS1515-3-C - 686090-10
MERRILL AVE
ONTARIO, CA
###

CONTECH ENGINEERED SOLUTIONS LLC
800.925.5240 513.645.7000 513.645.7993 FAX
9025 Centre Pointe Drive, Suite 400, West Chester, OH 45069
www.ContechES.com

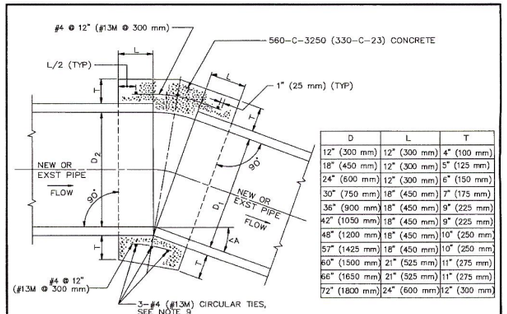
CDS

DATE: 08/16/21 | SCALE: 3/8" = 1'-0"
DESIGNED: RLH | DRAWN: RLH
CHECKED: ### | APPROVED: ###
PROJECT No.: 686090 | SEQUENCE No.: 10
SHEET: 1 OF 1

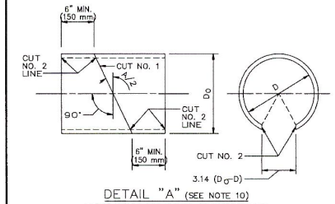
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LAYOUT 4A
1515-3-FGS
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BY	REVISION DESCRIPTION	DATE	MARK

The drawings and specifications and copies thereof furnished by CONTECH ENGINEERED SOLUTIONS LLC are and shall remain the property of CONTECH ENGINEERED SOLUTIONS LLC. They are to be used only with respect to this project and are not to be used on any other project. With the exception of one contract set for bona fide use in the execution of the work of this project, they are not to be loaned, copied or disclosed without the written consent of CONTECH ENGINEERED SOLUTIONS LLC. All drawings, specifications and copies thereof furnished by CONTECH ENGINEERED SOLUTIONS LLC and not used in connection with this project are to be promptly returned to CONTECH ENGINEERED SOLUTIONS LLC. All reproductions must bear the copyright notice of CONTECH ENGINEERED SOLUTIONS LLC. The visual rights shall apply to both graphical and textual embodiments of the drawings, specifications and copies thereof furnished by CONTECH ENGINEERED SOLUTIONS LLC. Any reuse without written verification or adaptation by CONTECH ENGINEERED SOLUTIONS LLC for the specific purpose intended will be at user's sole risk and without liability or legal exposure to CONTECH ENGINEERED SOLUTIONS LLC. User shall indemnify and hold harmless CONTECH ENGINEERED SOLUTIONS LLC from all claims, damages, losses, expenses, including attorney's fees arising out of or resulting therefrom. Any optimization of design, shop testing, or redesign provided by CONTECH ENGINEERED SOLUTIONS LLC in response to these reuse documents will be subject to additional charges.

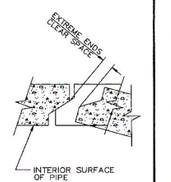


D	L	T
12" (300 mm)	12" (300 mm)	4" (100 mm)
18" (450 mm)	12" (300 mm)	5" (125 mm)
24" (600 mm)	12" (300 mm)	6" (150 mm)
30" (750 mm)	18" (450 mm)	7" (175 mm)
36" (900 mm)	18" (450 mm)	9" (225 mm)
42" (1050 mm)	18" (450 mm)	9" (225 mm)
48" (1200 mm)	18" (450 mm)	10" (250 mm)
57" (1425 mm)	18" (450 mm)	10" (250 mm)
60" (1500 mm)	21" (525 mm)	11" (275 mm)
66" (1650 mm)	21" (525 mm)	11" (275 mm)
72" (1800 mm)	24" (600 mm)	12" (300 mm)



DETAIL "A" (SEE NOTE 10)
SONO-TUBE, OR EQUAL, INTERIOR FORM

CUT NO. 1: SAW THE TUBE AT AN ANGLE OF A/2 WITH THE TRANSVERSE PLANE. REVERSE ONE SECTION AND TAPE BOTH SECTIONS TOGETHER FORMING THE DEFLECTION ANGLE A.
CUT NO. 2: SAW THE TUBE LONGITUDINALLY REMOVING A STRIP 3.14 (D_2-D) WIDE ON THE SIDE OPPOSITE THE OPEN JOINT. BEND THE ENDS OF THE CUT TOGETHER AND INSERT THE TUBE IN THE PIPE.



DETAIL "B"
TYPICAL JOINT FOR
REINFORCED CONCRETE PIPE

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE REV. 1996, 1997, 1999, 2009	CONCRETE COLLAR FOR RCB 12" (300 mm) THROUGH 72" (1800 mm)	STANDARD PLAN 380-4
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES

1. A CONCRETE COLLAR IS REQUIRED WHERE THE CHANGE IN GRADE EXCEEDS 10%.
2. FOR CURVE JOINTS (SEE DETAIL B, SHEET 1)
   IF THE EXTREME ENDS OF THE PIPE LEAVE A CLEAR SPACE THAT IS GREATER THAN 1" (25 mm), BUT IS LESS THAN 3" (75 mm) A CONCRETE COVER IS REQUIRED IN ACCORDANCE WITH SSPWC 306-1.2.4.
   IF THE EXTREME ENDS OF THE PIPE LEAVE A CLEAR SPACE THAT IS EQUAL TO OR GREATER THAN 3" (75 mm), BUT LESS THAN 6" (150 mm), A CONCRETE COLLAR IS REQUIRED. IF THE CLEAR SPACE IS 6" (150 mm) OR GREATER, A TRANSITION STRUCTURE IS REQUIRED.
3. CONCRETE COLLAR SHALL NOT BE USED FOR A SIZE CHANGE ON THE MAIN LINE.
4. CONNECTOR PIPES
   A. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR, L AND T SHALL BE THOSE OF THE LARGER PIPE. D=D_1 OR D_2, WHICHEVER IS GREATER.
   B. WHEN D_1 IS EQUAL TO OR LESS THAN D_2, JOIN INVERTS AND WHEN D_1 IS GREATER THAN D_2, JOIN SOFFITS.
5. FOR PIPE LARGER THAN 72" (1800 mm) SPECIAL COLLAR DETAILS ARE REQUIRED.
6. FOR PIPE SIZE NOT LISTED USE NEXT SIZE LARGER.
7. REINFORCEMENT SHALL CONFORM TO ASTM A 615 (A 615 M) GRADE 40 (300).
8. WHERE REINFORCING IS REQUIRED THE DIAMETER OF THE CIRCULAR TIES SHALL BE D+(2X WALL THICKNESS) + T.
9. REINFORCING SHALL BE USED WHERE THE PIPE DIAMETER IS GREATER THAN 21" (525 mm) AND ON ALL PIPES WHERE THE SPACES BETWEEN THE EXTREME OUTER ENDS IS 3" (75 mm) OR LARGER.

CIRCULAR TIES:

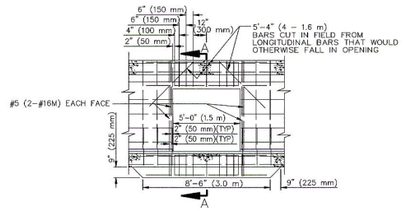
PIPE DIAMETER	NO. OF CIRCULAR TIES
21" (525 mm) OR LESS	3
24" (600 mm) TO 30" (750 mm)	3
33" (825 mm) TO 57" (1425 mm)	4
60" (1500 mm) TO 72" (1800 mm)	5

WHERE THE SPACE BETWEEN PIPE ENDS EXCEEDS 3" (75 mm), THE NUMBER OF CIRCULAR TIES SHALL BE INCREASED TO MAINTAIN AN APPROXIMATE SPACING OF 6" (150 mm) O.C.

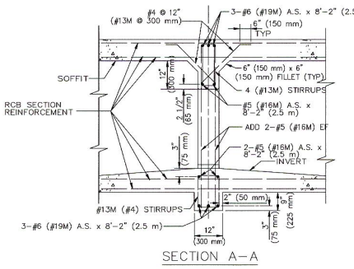
10. WHERE THE PIPE IS 21" (525 mm) OR LESS IN DIAMETER AN INTERIOR FORM OF UNSEALED SONO-TUBE OR EQUAL SHALL BE USED TO PROVIDE A SMOOTH INTERIOR JOINT. THE PAPER FORM MAY BE LEFT IN PLACE (SEE DETAIL A). WHEN THE PIPE IS 24" (600 mm) OR LARGER A REMOVABLE INTERIOR FORM SHALL BE USED OR THE INTERIOR JOINT SHALL BE COMPLETELY FILLED WITH MORTAR AND NEATLY POINTED.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
CONCRETE COLLAR FOR RCB 12" (300 mm) THROUGH 72" (1800 mm)	380-4
	SHEET 2 OF 2

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1964 REV. 1996, 2009	WINDOW DETAILS FOR MULTIPLE RCB STRUCTURES	STANDARD PLAN 382-2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2



ELEVATION



SECTION A-A

NOTES

1. THIS STRUCTURE MAY BE USED WHERE:
   a. DEPTH OF COVER DOES NOT EXCEED 10' (3.0 m).
   b. CLEAR SPAN OF ONE BARREL DOES NOT EXCEED 12' (3.6 m). WHEN THESE LIMITS ARE EXCEEDED, WINDOW OPENING DETAILS SHALL BE AS SHOWN ON PLANS.
2. LONGITUDINAL BARS SHALL BE CUT IN THE FIELD 2" (50 mm) FROM OPENING.
3. ROUND ALL EDGES TO 2" (50 mm) RADIUS.
4. NO TRANSVERSE CONSTRUCTION JOINT SHALL BE PLACED WITHIN 5'-0" (1.5 m) OF WINDOW.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
WINDOW DETAILS FOR MULTIPLE RCB STRUCTURES	382-2
	SHEET 2 OF 2

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/14/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER for — DATE 7/18/22

BENCH MARK No. CG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA REE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

PM-20016

SHEET 21 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

CALTRANS # 08-22-6-UT-0007

D14505 06/03/2022

Drawing Name: P:\Year-2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\XFF-SITE\STORM DRAIN EUCLID\V1_21_2020-015_SD_DET.dwg
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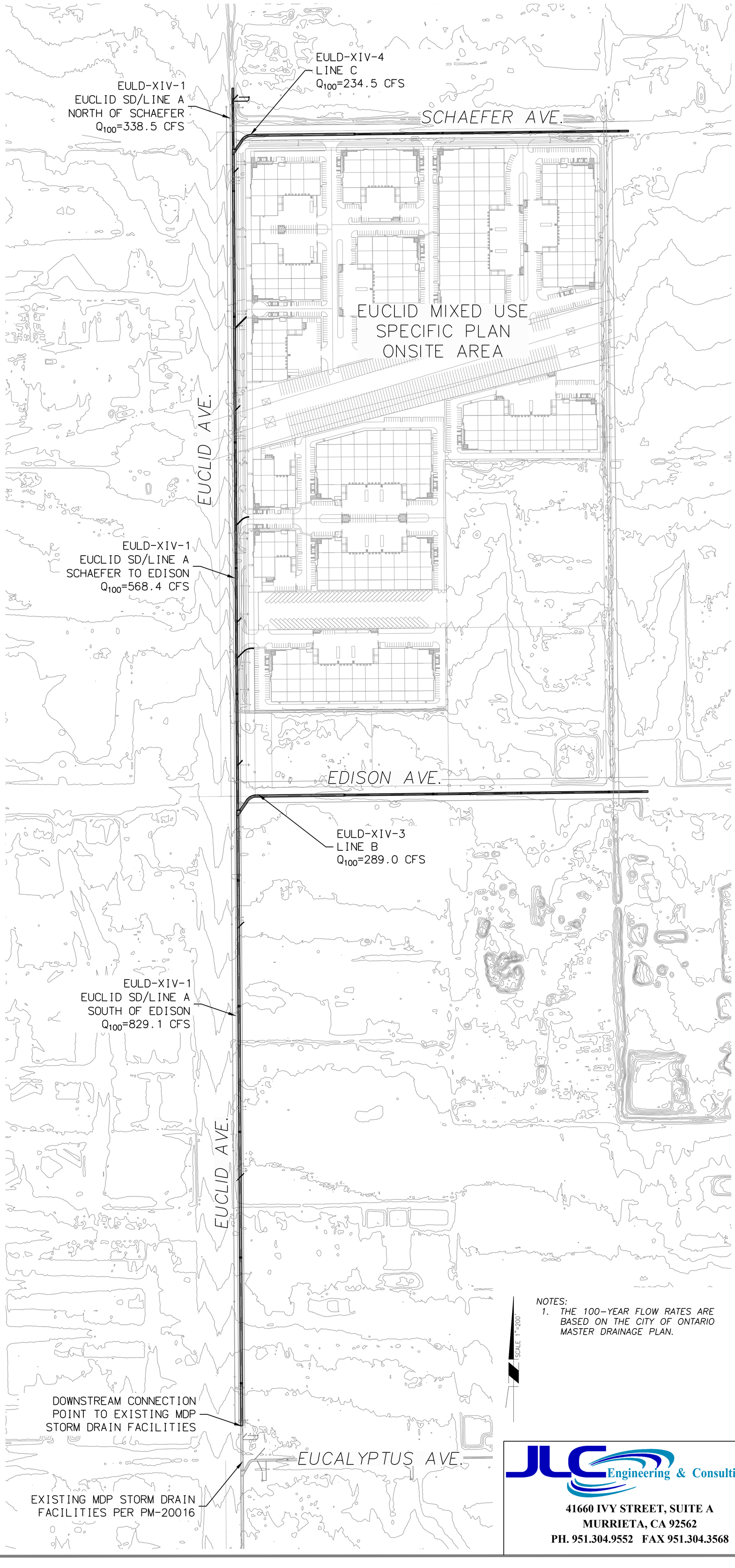
EXHIBITS

EXHIBIT A: EUCLID AVENUE STORM DRAIN DRAINAGE FACILITIES MAP

EUCLID MIXED USE SPECIFIC PLAN

IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

EUCLID AVENUE STORM DRAIN
DRAINAGE FACILITIES MAP



NOTES:
1. THE 100-YEAR FLOW RATES ARE BASED ON THE CITY OF ONTARIO MASTER DRAINAGE PLAN.

EXHIBIT "A"

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

EUCLID MIXED USE SPECIFIC PLAN

EUCLID AVENUE STORM DRAIN
DRAINAGE FACILITIES MAP

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits_Offsite_Euclid_Hydraulics\Exhibit-A-Offsite-Drainage-Facilities.dwg
Last Opened: May 10, 2023 - 3:45pm by stanner

EUCLID MIXED USE SPECIFIC PLAN

HYDRAULIC REPORT
IN SUPPORT OF
EUCLID AVENUE STORM DRAIN
(EULD-XIV-4)

CITY OF ONTARIO
CALIFORNIA

PREPARED FOR:

WESTLAND GROUP, INC.
4150 CONCOURS, ONTARIO CA

PREPARED BY:

JLC Engineering & Consulting, Inc.
41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552
FAX 951.304.3568

JULY 10, 2023

This report has been prepared by or under the direction of the following registered civil engineer who attests to the technical information contained herein. The registered civil engineer has also judged the qualifications of any technical specialists providing engineering data upon which recommendations, conclusions, and decisions are based.



Joseph L. Castaneda RCE 59835 Registered Civil Engineer	07/10/2023 Date	Seal

TABLE OF CONTENTS

I. PURPOSE AND SCOPE 1
II. PROJECT DESCRIPTION AND MASTER DRAINAGE PLAN OVERVIEW 1
III. OFFSITE HYDRAULICS 2
IV. CONCLUSION 3
V. REFERENCES 3

FIGURES

FIGURE 1: **VICINITY MAP**
FIGURE 2: **EXISTING MDP DRAINAGE FACILITIES MAP**
FIGURE 3: **PROPOSED MDP DRAINAGE FACILITIES MAP**

APPENDICES

APPENDIX A: **STORM DRAIN HYDRAULIC CALCULATIONS**
APPENDIX A.1: EUCLID AVENUE WSPG MODEL
APPENDIX A.2: SCHAEFER AVENUE WSPG MODEL
APPENDIX A.3: LINE B WSPG MODEL
APPENDIX A.4: LINE C WSPG MODEL

EXCERPTS

EXCERPT A: CITY OF ONTARIO MASTER DRAINAGE PLAN HYDROLOGY MAP
EXCERPT B: CITY OF ONTARIO MASTER DRAINAGE PLAN PLANNED FACILITIES MAP
EXCERPT C: STORM DRAIN IMPROVEMENT PLAN FOR PM-20016 EUCLID AVENUE (SR83) FROM 3350' SOUTH MERRILL AVENUE TO EUCALYPTUS AVENUE
EXCERPT D: STORM DRAIN IMPROVEMENT PLAN FOR PM-20714 SCHAEFER AVENUE FROM EUCLID AVENUE TO SULTANA AVENUE

EXHIBITS

EXHIBIT A: EUCLID AVENUE STORM DRAIN DRAINAGE FACILITIES MAP

I. PURPOSE AND SCOPE

The purpose of this study is to evaluate the offsite storm drain systems located in Euclid Avenue and Schaefer Avenue which is proposed as part of the Euclid Mixed Use Specific Plan (EMUSP) project. The EMUSP project site is located within the City of Ontario Master Drainage Plan Area XIV and plans to construct several City of Ontario Master Drainage Plan storm drain facilities.

The scope of the study includes the following:

1. Determination of the 100-year peak flow rates for the Euclid Avenue and Schaefer Avenue storm drain systems based on the City of Ontario Master Drainage Plan.
2. Hydraulically assess the proposed mainline and lateral storm drain systems located in Euclid Avenue and Schaefer Avenue.
3. Preparation of a drainage report, which consists of hydraulic and analytical results and exhibits.

II. PROJECT DESCRIPTION AND MASTER DRAINAGE PLAN OVERVIEW

Euclid Mixed Use Specific Plan (EMUSP) is a proposed industrial development within the City of Ontario. The project site is bounded by Schaefer Avenue to the north, Euclid Avenue to the west, Edison Avenue to the south, and Sultana Avenue to the east, as shown on Figure 1 Vicinity Map. The Euclid Avenue mainline and Schaefer Avenue lateral storm drain systems which are the focus of this report are located on Euclid Avenue from Eucalyptus Avenue to Schaefer Avenue and within Schaefer Avenue, respectively, as shown on Figure 1 Vicinity Map. The project site is located within the City of Ontario's Master Drainage Plan (MDP) Area XIV, see Excerpt A. The City of Ontario's Master Drainage Plan Planned Facilities Map has been included as Excerpt B.

The MDP Area XIV is approximately bounded by Riverside Drive to the north, between Bon View Avenue and Grove Avenue to the east, Merrill Avenue to the south, and Euclid Avenue to the west, see Figure 1 Vicinity Map. Runoff flows to the south and is collected in storm drain facilities which ultimately discharge into the City of Chino Line I system located south of the southwestern corner of Area XIV near the intersection of Merrill Avenue and Euclid Avenue.

As part of the PM 20016 Project (Ontario Ranch Business Park) storm drain infrastructure is being constructed along Euclid Avenue, Eucalyptus Avenue, Merrill Avenue, Sultana Avenue, Campus Avenue, and Bon View Avenue. Similarly, the PM 20714 Project (Excerpt D) will seek to construct storm drain within Schaefer Avenue stemming from the Euclid Avenue mainline. The EMUSP project was assessed based on the downstream storm drain construction being completed and operational. The existing MDP facilities constructed per PM 20016 are shown on Figure 2.

The EMUSP project proposes the following Master Drainage Plan Facilities, as shown on Figure 3:

1. EULD-XIV-1 located on Euclid Avenue between Eucalyptus Avenue and Schaefer Avenue.
2. EULD-XIV-4 located on Schaefer Avenue east of Euclid Avenue

This report focuses on the mainline analysis for the proposed MDP systems located on Euclid Avenue and the lateral analysis for the proposed system in Schaefer Avenue which stems from the Euclid Avenue mainline:

MDP System	Location	Name used in this report and on the SD Improvement Plans	Flow Rate per MDP (see Excerpt A)
EULD-XIV-1	Euclid Ave, north of Schaefer Ave	Euclid Ave SD / Line A	338.5 ft^3/s
EULD-XIV-1	Euclid Ave, south of Schaefer Ave, north of Edison Ave	Euclid Ave SD / Line A	568.4 ft^3/s
EULD-XIV-1	Euclid Ave, south of Edison Ave	Euclid Ave SD / Line A	829.1 ft^3/s
EULD-XIV-3*	Edison Avenue	Line B	289.0 ft^3/s
EULD-XIV-4*	Schaefer Avenue	Line C	234.5 ft^3/s

*Only the portions of the EULD-XIV-3 and EULD-XIV-4 storm drain systems located within Euclid Avenue were included in the analysis for this report. Separate reports shall be prepared to assess the rest of the EULD-XIV-3 and EULD-XIV-4 systems proposed as part of the EMUSP project.

III. OFFSITE HYDRAULICS

A Drainage Facilities Map has been provided, see Exhibit A. The Euclid Avenue and Schaefer Avenue storm drain systems were hydraulically assessed using the WSPG program.

The flow rates used for the hydraulic analysis are per the flow rates established by the City of Ontario Master Drainage Plan. The flow rates used are listed on the table in the previous section and shown on the Drainage Facilities Map, Exhibit A.

The downstream control for the Euclid Ave/Line A system was 649.82 per the storm drain plans for the downstream storm drain system. The hydraulic grade line calculated for Euclid Ave/Line A was used as the downstream control for Line B and Line C. The improvement plans for the downstream storm drain system have been included as Excerpt C. Moreover, the downstream control for the Euclid Ave/Schaefer Ave system was 702.54 per the results of the Euclid Avenue analysis contained in Appendix A.1. All WSPG calculations are included in Appendix A.

It should be noted that at this time the Schaefer Avenue lateral (EULD-XIV-4) which stems from the Euclid Avenue mainline (EULD-XIV-1) does not currently account for the dissemination of the anticipated inflows along the alignment. Therefore, EULD-XIV-4 has been conservatively modeled with WSPG assuming the maximum expected MDP flowrate of 234.5 ft^3/s is propagated along the entire alignment. The calculations in the current WSPG output suggest that the design is sufficient under this assumption; however, the ultimate behavior of this alignment will improve once a more nuanced consideration of where the lateral will capture inflows has been assessed.

IV. CONCLUSION

The study evaluated the storm drain improvements located in Euclid Avenue and Schaefer Avenue associated with the Euclid Mixed Use Specific Plan project. It has been concluded that:

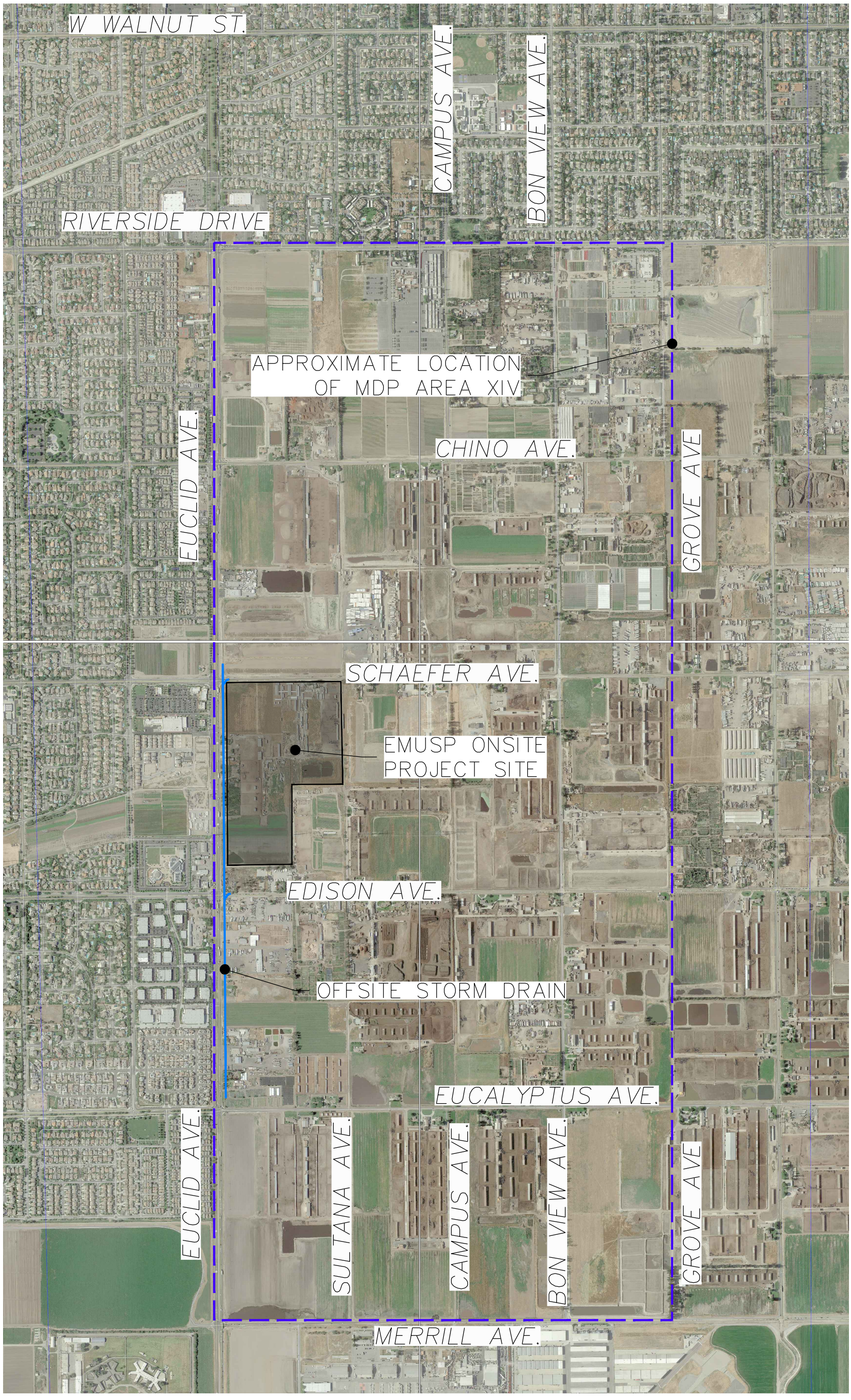
1. The proposed project is located within the City of Ontario Master Drainage Plan Area XIV which provides the regional storm drain system to flood protect the area.
2. The proposed Euclid Avenue storm drain systems are City of Ontario Master Drainage Plan planned facilities. The MDP has established flow rates for the proposed storm drain systems.
3. A hydraulic grade line has been established for the proposed storm drain systems.

V. REFERENCES

1. San Bernardino Flood Control Hydrology Manual, August 1986.
2. City of Ontario Master Plan of Drainage, Revised June 2017

FIGURES

FIGURE 1: VICINITY MAP



SCALE 1"=1200'

VICINITY MAP

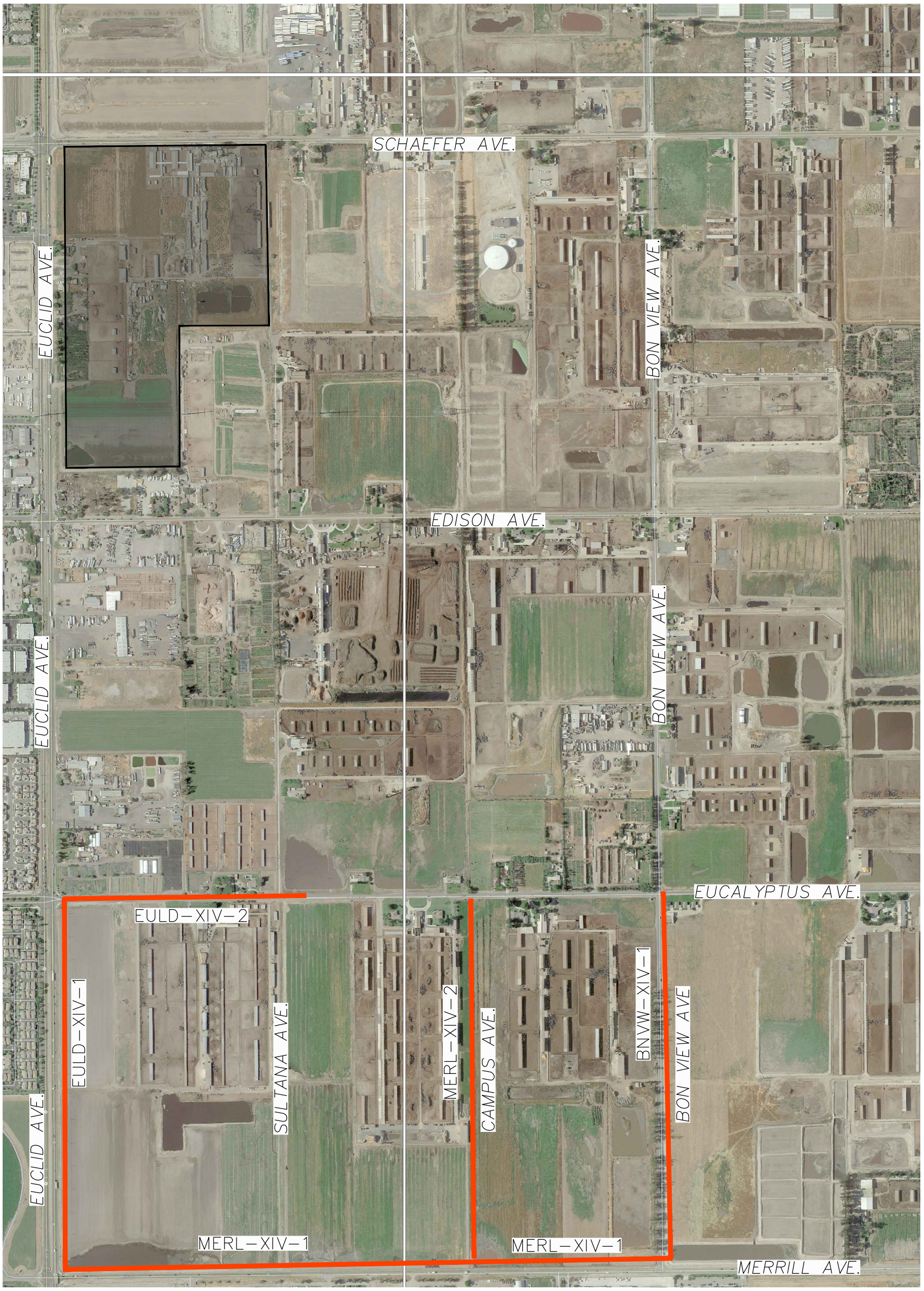
FIGURE 1

JLC Engineering & Consulting, Inc.
41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits_Offsite_Hydraulics\FIGURE-1-VICINITY-MAP.dwg
Last Opened: May 10, 2023 - 10:48am by stanner

FIGURE 2: EXISTING MDP DRAINAGE FACILITIES MAP

EXISTING MDP DRAINAGE FACILITIES MAP



SCALE 1"=700'

LEGEND:

EXISTING MDP SYSTEMS PER PM 20016

EMUSP ONSITE PROJECT SITE

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

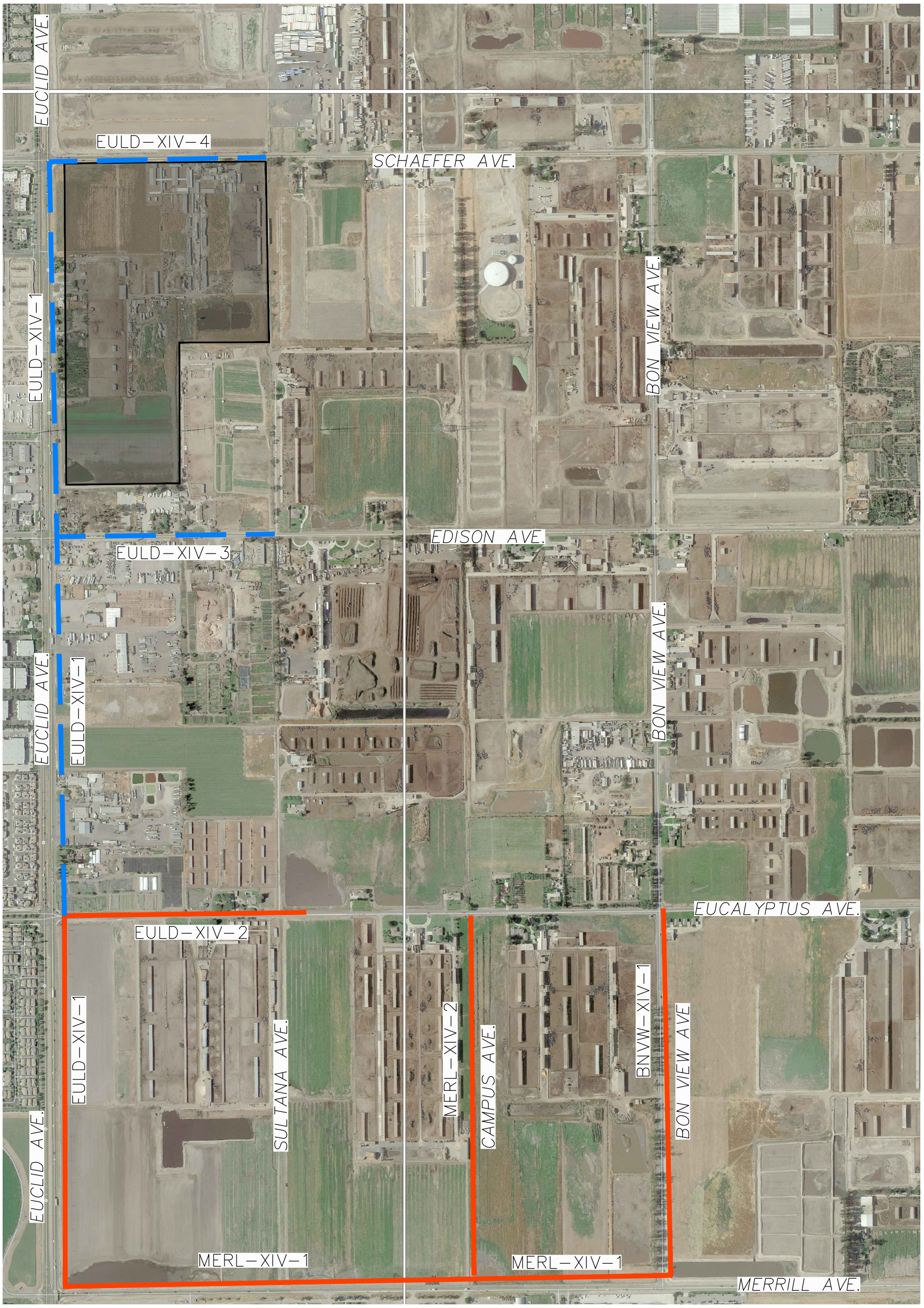
FIGURE 2

EXISTING MDP DRAINAGE FACILITIES MAP

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits_Offsite_Hydraulics\FIGURE-2-EXISTING-MDP.dwg
Last Opened: May 10, 2023 - 10:51am by stanner

FIGURE 3: PROPOSED MDP DRAINAGE FACILITIES MAP

PROPOSED MDP DRAINAGE FACILITIES MAP



SCALE 1"=700'

LEGEND:

- EXISTING MDP SYSTEMS PER PM 20016
- PROPOSED MDP SYSTEMS PER EMUSP
- EMUSP ONSITE PROJECT SITE

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

FIGURE 3

PROPOSED MDP DRAINAGE FACILITIES MAP

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits_Offsite_Hydraulics\FIGURE-3-PROPOSED-MDP.dwg
Last Opened: May 10, 2023 - 2:02pm by stanner

APPENDICES

APPENDIX A: STORM DRAIN HYDRAULIC CALCULATIONS

APPENDIX A.1: EUCLID AVENUE WSPG MODEL

```
T1 265.24.22
T2 WSPG RUN FOR EUCLID AVENUE (SR83)
T3 FN: EUCLID.WSW
SO   3762.560 639.170  1                          649.820
R    3935.350 640.730  1      .013                                .000    .000 0
R    6192.240 664.650  1      .013                                .000    .000 0
JX   6212.400 665.150  3  2   .013  260.700          664.920        45.0         .000
R    8821.510 692.810  3      .013                                .000    .000 0
JX   8841.670 693.310  5  4   .013  229.900          692.820        45.0         .000
R    9084.670 695.890  5      .013                                .000    .000 0
SH   9084.670 695.890  5                          695.890
CD   1  4   1    .000   8.500     .000  .000  .000   .00
CD   2  4   1    .000   8.000     .000  .000  .000   .00
CD   3  4   1    .000   7.500     .000  .000  .000   .00
CD   4  4   1    .000   7.500     .000  .000  .000   .00
CD   5  4   1    .000   6.500     .000  .000  .000   .00
Q           338.500   .0
```

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:53:48

265.24.22

WSPG RUN FOR EUCLID AVENUE (SR83)

FN: EUCLID.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
3762.560	639.170	10.650	649.820	829.10	14.61	3.31	653.13	.00	7.15	.00	8.500	.000	.00	1 .0
172.790	.0090					.0060	1.03	10.65	.00	5.82	.013	.00	.00	PIPE
3935.350	640.730	10.123	650.853	829.10	14.61	3.31	654.17	.00	7.15	.00	8.500	.000	.00	1 .0
253.820	.0106					.0060	1.52	10.12	.00	5.50	.013	.00	.00	PIPE
4189.170	643.420	8.950	652.370	829.10	14.61	3.31	655.68	.00	7.15	.00	8.500	.000	.00	1 .0
HYDRAULIC JUMP														
4189.170	643.420	5.498	648.918	829.10	21.35	7.08	656.00	.00	7.15	8.13	8.500	.000	.00	1 .0
824.484	.0106					.0106	8.74	5.50	1.72	5.50	.013	.00	.00	PIPE
5013.654	652.159	5.498	657.657	829.10	21.35	7.08	664.74	.00	7.15	8.13	8.500	.000	.00	1 .0
698.644	.0106					.0102	7.11	5.50	1.72	5.50	.013	.00	.00	PIPE
5712.297	659.563	5.664	665.227	829.10	20.64	6.62	671.84	.00	7.15	8.02	8.500	.000	.00	1 .0
255.673	.0106					.0092	2.36	5.66	1.63	5.50	.013	.00	.00	PIPE
5967.970	662.273	5.911	668.184	829.10	19.68	6.02	674.20	.00	7.15	7.82	8.500	.000	.00	1 .0
117.552	.0106					.0082	.97	5.91	1.49	5.50	.013	.00	.00	PIPE
6085.522	663.519	6.178	669.697	829.10	18.77	5.47	675.17	.00	7.15	7.58	8.500	.000	.00	1 .0
63.649	.0106					.0074	.47	6.18	1.37	5.50	.013	.00	.00	PIPE
6149.171	664.194	6.469	670.662	829.10	17.89	4.97	675.63	.00	7.15	7.25	8.500	.000	.00	1 .0
32.814	.0106					.0066	.22	6.47	1.25	5.50	.013	.00	.00	PIPE

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:53:48

265.24.22

WSPG RUN FOR EUCLID AVENUE (SR83)

FN: EUCLID.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
6181.985	664.541	6.790	671.331	829.10	17.06	4.52	675.85	.00	7.15	6.82	8.500	.000	.00	1 .0
10.255	.0106					.0060	.06	6.79	1.13	5.50	.013	.00	.00	PIPE
6192.240	664.650	7.155	671.805	829.10	16.26	4.11	675.91	.00	7.15	6.21	8.500	.000	.00	1 .0
JUNCT STR	.0248					.0056	.11	7.15	1.00		.013	.00	.00	PIPE
6212.400	665.150	10.172	675.322	568.40	12.87	2.57	677.89	.00	6.14	.00	7.500	.000	.00	1 .0
474.593	.0106					.0055	2.60	10.17	.00	4.71	.013	.00	.00	PIPE
6686.993	670.181	7.741	677.922	568.40	12.87	2.57	680.49	.00	6.14	.00	7.500	.000	.00	1 .0
HYDRAULIC JUMP														
6686.993	670.181	4.707	674.889	568.40	19.47	5.89	680.78	.00	6.14	7.25	7.500	.000	.00	1 .0
1233.438	.0106					.0106	13.08	4.71	1.71	4.71	.013	.00	.00	PIPE
7920.431	683.257	4.707	687.965	568.40	19.47	5.89	693.85	.00	6.14	7.25	7.500	.000	.00	1 .0
566.900	.0106					.0101	5.70	4.71	1.71	4.71	.013	.00	.00	PIPE
8487.331	689.267	4.888	694.156	568.40	18.64	5.39	699.55	.00	6.14	7.15	7.500	.000	.00	1 .0
172.320	.0106					.0090	1.55	4.89	1.59	4.71	.013	.00	.00	PIPE
8659.651	691.094	5.099	696.193	568.40	17.77	4.90	701.10	.00	6.14	7.00	7.500	.000	.00	1 .0
84.289	.0106					.0080	.67	5.10	1.47	4.71	.013	.00	.00	PIPE
8743.940	691.988	5.325	697.313	568.40	16.94	4.46	701.77	.00	6.14	6.81	7.500	.000	.00	1 .0
46.346	.0106					.0071	.33	5.32	1.35	4.71	.013	.00	.00	PIPE

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:53:48

265.24.22

WSPG RUN FOR EUCLID AVENUE (SR83)

FN: EUCLID.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
8790.286	692.479	5.570	698.049	568.40	16.16	4.05	702.10	.00	6.14	6.56	7.500	.000	.00	1 .0
23.871	.0106					.0064	.15	5.57	1.23	4.71	.013	.00	.00	PIPE
8814.157	692.732	5.838	698.570	568.40	15.40	3.68	702.25	.00	6.14	6.23	7.500	.000	.00	1 .0
7.353	.0106					.0058	.04	5.84	1.12	4.71	.013	.00	.00	PIPE
8821.510	692.810	6.139	698.949	568.40	14.69	3.35	702.30	.00	6.14	5.78	7.500	.000	.00	1 .0
JUNCT STR	.0248					.0048	.10	6.14	1.00		.013	.00	.00	PIPE
8841.670	693.310	9.234	702.544	338.50	10.20	1.62	704.16	.00	4.94	.00	6.500	.000	.00	1 .0
243.000	.0106					.0042	1.01	9.23	.00	3.73	.013	.00	.00	PIPE
9084.670	695.890	7.667	703.557	338.50	10.20	1.62	705.17	.00	4.94	.00	6.500	.000	.00	1 .0

APPENDIX A.2: SCHAEFER AVENUE WSPG MODEL

```
T1 265.24.22
T2 WSPG RUN FOR SCHAEFER AVENUE (SR83)

T3 FN: SCHAEFER.WSW

SO   1122.560 693.420  3                          702.544

R    1521.110 695.410  3      .013                                .000    .000 0

TS   1525.810 696.940  3      .013                                .000
R    1871.110 698.660  5      .013                                .000    .000 0

R    1875.810 698.690  5      .013                                .000    .000 0
R    2221.110 700.410  5      .013                                .000    .000 0

R    2225.800 700.440  5      .013                                .000    .000 0
R    2536.050 701.990  5      .013                                .000    .000 0

TS   2540.720 704.010  5      .013                                .000
R    2613.100 704.370  6      .013                                .000    .000 0

SH   2613.100 704.370  6                          704.370

CD   1  4   1    .000   8.500     .000  .000  .000   .00

CD   2  4   1    .000   8.000     .000  .000  .000   .00

CD   3  4   1    .000   7.500     .000  .000  .000   .00

CD   4  4   1    .000   6.500     .000  .000  .000   .00
CD   5  4   1    .000   6.000     .000  .000  .000   .00
CD   6  4   1    .000   4.000     .000  .000  .000   .00

Q           234.500   .0
```

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 7- 7-2023 Time: 1:39:53

265.24.22

WSPG RUN FOR SCHAEFER AVENUE (SR83)

FN: SCHAEFER.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1122.560	693.420	9.124	702.544	234.50	5.31	.44	702.98	.00	3.92	.00	7.500	.000	.00	1 .0
398.550	.0050					.0009	.37	9.12	.00	3.45	.013	.00	.00	PIPE
1521.110	695.410	7.506	702.916	234.50	5.31	.44	703.35	.00	3.92	.00	7.500	.000	.00	1 .0
TRANS STR	.3255					.0010	.00	7.51	.00		.013	.00	.00	PIPE
1525.810	696.940	5.827	702.767	234.50	8.36	1.09	703.85	.00	4.19	2.01	6.000	.000	.00	1 .0
147.990	.0050					.0027	.40	5.83	.39	4.00	.013	.00	.00	PIPE
1673.800	697.677	5.382	703.059	234.50	8.77	1.19	704.25	.00	4.19	3.65	6.000	.000	.00	1 .0
87.833	.0050					.0028	.25	5.38	.57	4.00	.013	.00	.00	PIPE
1761.633	698.115	5.072	703.186	234.50	9.20	1.31	704.50	.00	4.19	4.34	6.000	.000	.00	1 .0
66.481	.0050					.0031	.20	5.07	.67	4.00	.013	.00	.00	PIPE
1828.114	698.446	4.812	703.258	234.50	9.65	1.45	704.70	.00	4.19	4.78	6.000	.000	.00	1 .0
42.996	.0050					.0033	.14	4.81	.75	4.00	.013	.00	.00	PIPE
1871.110	698.660	4.626	703.286	234.50	10.03	1.56	704.85	.00	4.19	5.04	6.000	.000	.00	1 .0
4.700	.0064					.0035	.02	4.63	.82	3.67	.013	.00	.00	PIPE
1875.810	698.690	4.582	703.272	234.50	10.12	1.59	704.86	.00	4.19	5.10	6.000	.000	.00	1 .0
35.686	.0050					.0037	.13	4.58	.84	4.00	.013	.00	.00	PIPE
1911.496	698.868	4.397	703.264	234.50	10.56	1.73	705.00	.00	4.19	5.31	6.000	.000	.00	1 .0
HYDRAULIC JUMP														

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 7- 7-2023 Time: 1:39:53

265.24.22

WSPG RUN FOR SCHAEFER AVENUE (SR83)

FN: SCHAEFER.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1911.496	698.868	4.002	702.870	234.50	11.70	2.13	705.00	.00	4.19	5.66	6.000	.000	.00	1 .0
120.299	.0050					.0051	.61	4.00	1.10	4.00	.013	.00	.00	PIPE
2031.796	699.467	3.949	703.416	234.50	11.88	2.19	705.61	.00	4.19	5.69	6.000	.000	.00	1 .0
114.727	.0050					.0055	.63	3.95	1.12	4.00	.013	.00	.00	PIPE
2146.523	700.038	3.789	703.828	234.50	12.46	2.41	706.24	.00	4.19	5.79	6.000	.000	.00	1 .0
74.587	.0050					.0062	.46	3.79	1.22	4.00	.013	.00	.00	PIPE
2221.110	700.410	3.639	704.049	234.50	13.07	2.65	706.70	.00	4.19	5.86	6.000	.000	.00	1 .0
4.690	.0064					.0066	.03	3.64	1.32	3.67	.013	.00	.00	PIPE
2225.800	700.440	3.638	704.078	234.50	13.08	2.65	706.73	.00	4.19	5.86	6.000	.000	.00	1 .0
34.192	.0050					.0068	.23	3.64	1.32	4.00	.013	.00	.00	PIPE
2259.992	700.611	3.561	704.172	234.50	13.41	2.79	706.97	.00	4.19	5.89	6.000	.000	.00	1 .0
57.026	.0050					.0075	.43	3.56	1.37	4.00	.013	.00	.00	PIPE
2317.018	700.896	3.424	704.319	234.50	14.07	3.07	707.39	.00	4.19	5.94	6.000	.000	.00	1 .0
50.979	.0050					.0085	.43	3.42	1.48	4.00	.013	.00	.00	PIPE
2367.997	701.150	3.293	704.444	234.50	14.75	3.38	707.82	.00	4.19	5.97	6.000	.000	.00	1 .0
46.583	.0050					.0096	.45	3.29	1.59	4.00	.013	.00	.00	PIPE
2414.581	701.383	3.170	704.553	234.50	15.47	3.72	708.27	.00	4.19	5.99	6.000	.000	.00	1 .0
43.175	.0050					.0109	.47	3.17	1.71	4.00	.013	.00	.00	PIPE

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 7- 7-2023 Time: 1:39:53

265.24.22

WSPG RUN FOR SCHAEFER AVENUE (SR83)

FN: SCHAEFER.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
2457.756	701.599	3.052	704.651	234.50	16.23	4.09	708.74	.00	4.19	6.00	6.000	.000	.00	1 .0
40.346	.0050					.0124	.50	3.05	1.84	4.00	.013	.00	.00	PIPE
2498.102	701.800	2.940	704.740	234.50	17.02	4.50	709.24	.00	4.19	6.00	6.000	.000	.00	1 .0
37.948	.0050					.0140	.53	2.94	1.98	4.00	.013	.00	.00	PIPE
2536.050	701.990	2.833	704.823	234.50	17.85	4.95	709.77	.00	4.19	5.99	6.000	.000	.00	1 .0
TRANS STR	.4326					.0097	.05	2.83	2.12		.013	.00	.00	PIPE
2540.720	704.010	4.193	708.203	234.50	11.11	1.92	710.12	.00	4.19	5.51	6.000	.000	.00	1 .0
2540.720	704.010	3.916	707.926	234.50	18.76	5.46	713.39	.00	3.92	1.14	4.000	.000	.00	1 .0
1.424	.0050					.0247	.04	3.92	1.00	4.00	.013	.00	.00	PIPE
2542.144	704.017	4.000	708.017	234.50	18.66	5.41	713.42	.00	3.92	.00	4.000	.000	.00	1 .0
70.956	.0050					.0261	1.85	4.00	.00	4.00	.013	.00	.00	PIPE
2613.100	704.370	5.538	709.908	234.50	18.66	5.41	715.32	.00	3.92	.00	4.000	.000	.00	1 .0

APPENDIX A.3: LINE B WSPG MODEL

```
T1 265.24.22
T2 WSPG RUN FOR LINE B
T3 FN: LINEB.WSW
SO   1017.100 664.990  1                          675.322
R    1065.020 665.230  1      .013                              .000    .000 0
R    1107.900 665.440  1      .013                            54.597    .000 0
SH   1107.900 665.440  1                          665.440
CD   1  4   1    .000   8.000     .000  .000  .000   .00
Q           289.000   .0
```

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:53:54

265.24.22

WSPG RUN FOR LINE B

FN: LINEB.WSW

Station	Invert Elev	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head	Energy Grd.El.	Super Elev	Critical Depth	Flow Top Width	Height/ Dia.-FT	Base Wt or I.D.	ZL	No Wth Prs/Pip
L/Elem	Ch Slope					SF Ave	HF	SE Dpth	Froude N	Norm Dp	"N"	X-Fall	ZR	Type Ch
1017.100	664.990	10.332	675.322	289.00	5.75	.51	675.84	.00	4.29	.00	8.000	.000	.00	1 .0
47.920	.0050					.0010	.05	10.33	.00	3.75	.013	.00	.00	PIPE
1065.020	665.230	10.140	675.370	289.00	5.75	.51	675.88	.00	4.29	.00	8.000	.000	.00	1 .0
42.880	.0049					.0010	.04	.00	.00	3.78	.013	.00	.00	PIPE
1107.900	665.440	10.053	675.493	289.00	5.75	.51	676.01	.00	4.29	.00	8.000	.000	.00	1 .0

APPENDIX A.4: LINE C WSPG MODEL

```
T1 265.24.22
T2 WSPG RUN FOR LINE C
T3 FN: LINEC.WSW
SO   1016.150 692.890  1                          702.544
R    1079.620 693.210  1      .013                              .000    .000 0
R    1122.560 693.420  1      .013                            54.597    .000 0
SH   1122.560 693.420  1                          693.420
CD   1  4   1    .000   7.500     .000  .000  .000   .00
Q           234.500   .0
```

Program Package Serial Number: 7028

WATER SURFACE PROFILE LISTING Date: 5-10-2023 Time: 2:54: 0

265.24.22

WSPG RUN FOR LINE C

FN: LINEC.WSW

Station / L/Elem	Invert Elev / Ch Slope	Depth (FT)	Water Elev	Q (CFS)	Vel (FPS)	Vel Head / SF Ave	Energy Grd.El. / HF	Super Elev / SE Dpth	Critical Depth / Froude N	Flow Top Width / Norm Dp	Height/ Dia.-FT / "N"	Base Wt or I.D. / X-Fall	ZL / ZR	No Wth Prs/Pip / Type Ch
1016.150	692.890	9.654	702.544	234.50	5.31	.44	702.98	.00	3.92	.00	7.500	.000	.00	1 .0
63.470	.0050					.0009	.06	9.65	.00	3.44	.013	.00	.00	PIPE
1079.620	693.210	9.393	702.603	234.50	5.31	.44	703.04	.00	3.92	.00	7.500	.000	.00	1 .0
42.940	.0049					.0009	.04	.00	.00	3.47	.013	.00	.00	PIPE
1122.560	693.420	9.291	702.711	234.50	5.31	.44	703.15	.00	3.92	.00	7.500	.000	.00	1 .0

EXCERPTS

EXCERPT A: CITY OF ONTARIO MASTER DRAINAGE PLAN HYDROLOGY MAP

XIV

XII

XIII

XI

X

XV

FONTANA

RIVERSIDE

GROVE AVE BASIN

RIVERSIDE DR STORM DRAIN 1

RIVERSIDE DR STORM DRAIN 2

LOWER CUCAMONGA SPREADING GROUNDS

CHRIS BASIN

EUCLID MIXED USE SPECIFIC PLAN ONISTE PROJECT SITE

CUCAMONGA CHANNEL

LOWER DEER CREEK CHANNEL

ARCHIBALD AVE

AIRPORT CHANNEL

GROVE AVE STORM DRAIN

CHINO LINE A

COUNTY LINE CHANNEL

OFF-SITE FLOWS Q100=524cfs

EXISTING DOUBLE 10'W x 6'H RCB

LEGEND

- COUNTY LIMITS
- CITY LIMITS
- PLANNED STORM DRAIN, SIZE AND LINE ID (X" / XXXX-X-X)
- DRAINAGE AREA BOUNDARY
- DRAINAGE SYSTEM BOUNDARY
- MINOR DRAINAGE BOUNDARY
- (X) EXISTING CITY STORM DRAIN AND SIZE (IN INCHES)
- EXISTING COUNTY OPEN CHANNEL
- EXISTING COUNTY STORM DRAIN AND SIZE (IN INCHES)
- X DRAINAGE AREA #
- DRAINAGE SYSTEM NAME / WLKR - XII - 3 SYSTEM IDENTIFICATION (DRAINAGE AREA NUMBER / LINE NUMBER)
- X / XX AREA DESIGNATION, AREA ACREAGE (IN ACRES)
- Q_{10} =861.0cfs, Q_{25} =981.1cfs, Q_{100}=1213.7cfs — PEAK FLOW RATE
- t=36.1, A=942.7ac — TIME OF CONCENTRATION, AREA

SCALE: 1" = 800'

800 400 0 800 2400

GRAPHIC SCALE 1"=800'

DATE	REV.	DESCRIPTION
06-2017	1	REVISIONS TO DRAINAGE AREA XI AND XII TO MATCH APPROVED "MASTER PLAN OF DRAINAGE REVISION WLKR-XII-1 REALIGNMENT" MEMO DATED DECEMBER 2016

REVISIONS
5-20-2017: REVISED TO MERGE DRAINAGE AREA XII AND XIII.

MARCH 2012

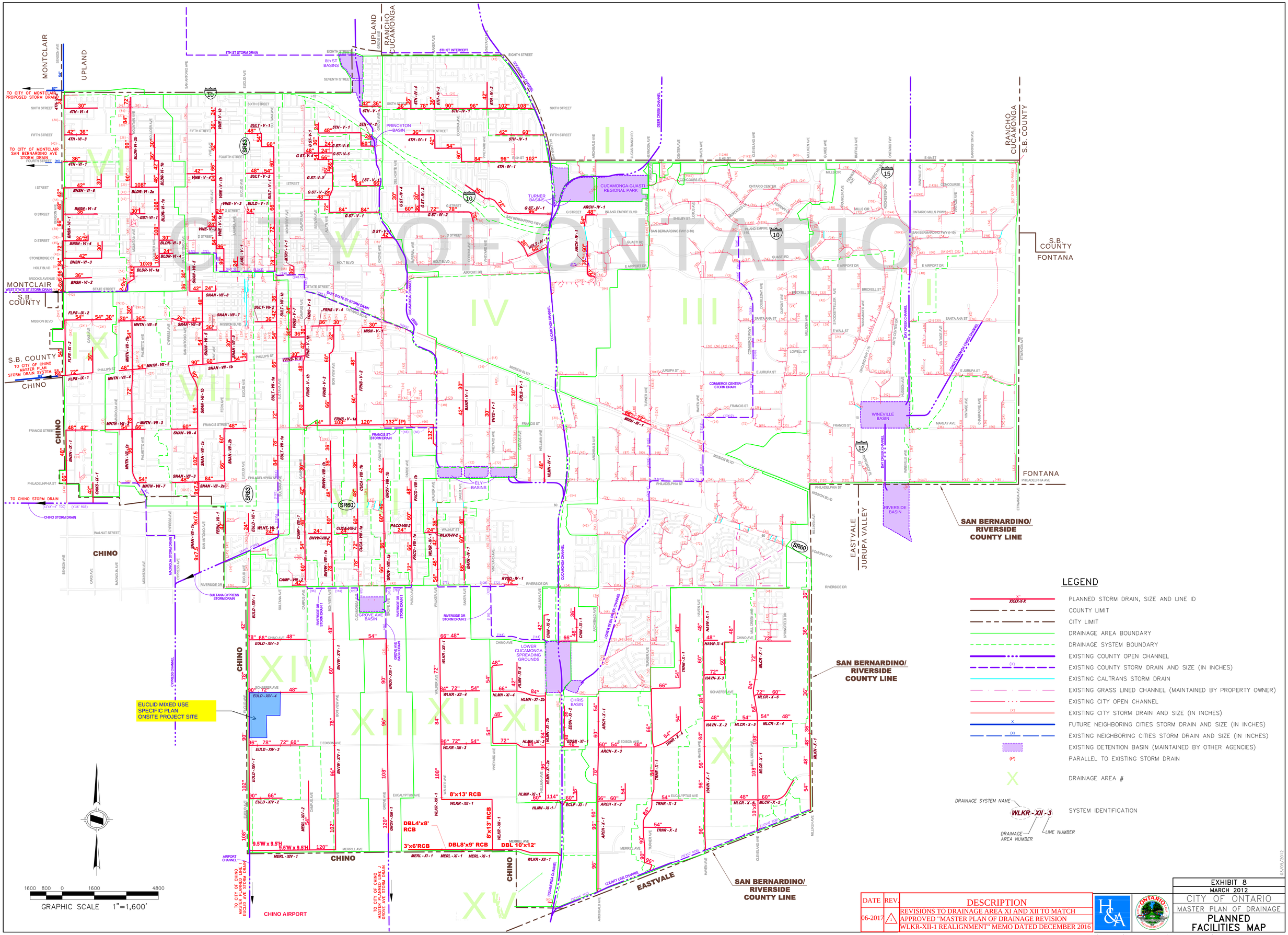
CITY OF ONTARIO
MASTER PLAN OF DRAINAGE
HYDROLOGY MAP
NEW MODEL COLONY

HUNSAKER & ASSOCIATES IRVINE, INC
PLANNING ■ ENGINEERING ■ SURVEYING
Three Hughes Irvine, CA 92618 PH: (949) 583-1010 FX: (949) 583-0759

SHEET 3 OF 3

PLOTTED 12/12/2017 1:53 PM
\\TUSFS1\HFIProject\140152\Eng\140152-0000\Hm\Hydrology Report\MPD Update\Civil 3D Files\New Model Hydrology Map Update.dwg

EXCERPT B: CITY OF ONTARIO MASTER DRAINAGE PLAN PLANED FACILITIES MAP



LEGEND

- PLANNED STORM DRAIN, SIZE AND LINE ID (XXXX-X-X)
- COUNTY LIMIT
- CITY LIMIT
- DRAINAGE AREA BOUNDARY
- DRAINAGE SYSTEM BOUNDARY
- EXISTING COUNTY OPEN CHANNEL
- EXISTING COUNTY STORM DRAIN AND SIZE (IN INCHES) (X)
- EXISTING CALTRANS STORM DRAIN
- EXISTING GRASS LINED CHANNEL (MAINTAINED BY PROPERTY OWNER)
- EXISTING CITY OPEN CHANNEL
- EXISTING CITY STORM DRAIN AND SIZE (IN INCHES) (X)
- FUTURE NEIGHBORING CITIES STORM DRAIN AND SIZE (IN INCHES) X
- EXISTING NEIGHBORING CITIES STORM DRAIN AND SIZE (IN INCHES) (XX)
- EXISTING DETENTION BASIN (MAINTAINED BY OTHER AGENCIES)
- (P) PARALLEL TO EXISTING STORM DRAIN
- X DRAINAGE AREA #
- DRAINAGE SYSTEM NAME — WLKR - XII - 3 — SYSTEM IDENTIFICATION (DRAINAGE AREA NUMBER / LINE NUMBER)

DATE	REV.	DESCRIPTION
06-2017	1	REVISIONS TO DRAINAGE AREA XI AND XII TO MATCH APPROVED "MASTER PLAN OF DRAINAGE REVISION WLKR-XII-1 REALIGNMENT" MEMO DATED DECEMBER 2016

EXHIBIT 8
MARCH 2012
CITY OF ONTARIO
MASTER PLAN OF DRAINAGE
PLANNED FACILITIES MAP

03/09/2012

F:\0641\Engineering\SY_SD Master Plan\Rpt_SD Master Plan\Exh 8 - PLANNED FACILITIES.dwg

EXCERPT C: **STORM DRAIN IMPROVEMENT PLAN FOR PM-20016 EUCLID AVENUE (SR83) FROM 3350' SOUTH MERRILL AVENUE TO EUCALYPTUS AVENUE**

STORM DRAIN IMPROVEMENT PLAN

FOR
PM-20016
EUCLID AVENUE (SR83)
FROM 3350' SOUTH MERRILL AVENUE TO EUCALYPTUS AVENUE
IN THE CITY OF ONTARIO

CITY OF ONTARIO GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE CURRENT CITY OF ONTARIO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS AND CURRENT STANDARD SPECIFICATIONS AND STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION AND CALTRANS PERMIT UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS/HER OPERATIONS, WHETHER OR NOT THE FACILITY IS SHOWN ON THESE PLANS.
3. ALL OBSTRUCTIONS WITHIN THE AREA TO BE IMPROVED SHALL BE REMOVED AND/OR RELOCATED AT THE DIRECTION OF THE CITY ENGINEER. UTILITIES ARE TO BE RELOCATED BY THEIR RESPECTIVE OWNERS UNLESS NOTED OTHERWISE. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. UTILITY LINE LOCATIONS WERE TAKEN FROM AVAILABLE RECORD DATA AND WERE NOT LOCATED IN THE FIELD, UNLESS OTHERWISE NOTED ON THE PLAN. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
5. IN CASE OF ANY ACCIDENTS INVOLVING SAFETY MATTERS COVERED BY SECTION 6409(B) OF THE CALIFORNIA LABOR CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE DIVISION OF INDUSTRIAL SAFETY.
6. STATE LAW (SB 3019) REQUIRES THE CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT AND OBTAIN AN IDENTIFICATION NUMBER PRIOR TO THE ISSUANCE OF CITY'S ENCROACHMENT PERMITS. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 1-800-422-4133 A MINIMUM OF 48-HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
7. PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL OBTAIN A BUSINESS LICENSE FROM THE CITY OF ONTARIO. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE ENGINEERING DEPARTMENT NO LESS THAN 48 HOURS PRIOR TO START OF ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY.
8. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT 48 HOURS PRIOR TO TIME OF CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS REFERRED TO SECTION 7-10.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
9. THE CONTRACTOR SHALL RENEW OR REPLACE ANY EXISTING TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS, WHICH DURING HIS OPERATIONS HAVE BEEN EITHER REMOVED OR THE EFFECTIVENESS OF WHICH HAS BEEN REDUCED. RENEWAL OF TRAFFIC STRIPING AND MARKINGS SHALL BE DONE USING REFLECTIVE THERMO-PLASTIC MARKINGS IN CONFORMANCE WITH SECTION 84 & 85 OF THE CALTRANS STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. ALL REGULATORY, WARNING, AND GUIDE SIGNS SHALL HAVE 3M DIAMOND, VIP GRADE SHEETING WITH SERIES 1160 PROTECTIVE OVERLAY FILM.
10. THE LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS & PROFESSIONAL CODE, AND SECTIONS 732.5, 1492-5, 1810-5 OF THE STREETS AND HIGHWAY CODE REQUIRE THAT SURVEY MONUMENTS SHALL BE PROTECTED AND PERPETUATED.

    "IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR OTHERS PERFORMING THE CONSTRUCTION WORK TO RETAIN A QUALIFIED REGISTERED CIVIL ENGINEER AND/OR LICENSED LAND SURVEYOR PRIOR TO THE START OF CONSTRUCTION TO LOCATE, REFERENCE AND FILE THE NECESSARY CORNER RECORDS WITH THE COUNTY SURVEYOR'S OFFICE FOR SURVEY CONTROL POINTS/MONUMENTS THAT EXIST AS SHOWN ON RECORDED TRACT MAPS, PARCEL MAPS, RECORDS OF SURVEYS AND HIGHWAY MAPS, AND MAY BE DISTRIBUTED OR DAMAGED BY THE PROPOSED CONSTRUCTION"

    AFTER THE COMPLETION OF THE PROPOSED CONSTRUCTION, SAID MONUMENTS AND/OR CONTROL SURVEY POINTS SHALL BE RESET TO THE NEW SURFACE IN ACCORDANCE WITH THE CURRENT PROFESSIONAL LAND SURVEYING PRACTICES. CORNER RECORDS SHALL BE FILED WITH THE COUNTY SURVEYOR FOR ALL THE NEW MONUMENTS SET.
11. THE DEVELOPER SHALL PROVIDE THE CITY WITH A COMPLETED SET OF "AS BUILT", MYLAR DRAWINGS PRIOR TO THE FINAL INSPECTION.
12. A CITY ACCEPTED/APPROVED SET OF PLANS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
13. A PRE-CONSTRUCTION MEETING SHALL OCCUR PRIOR TO CONSTRUCTION. ATTENDEES SHALL INCLUDE A CITY REPRESENTATIVE AND THE CONTRACTOR WHO WILL PERFORM THE WORK. "CUT-SHEETS" SHALL BE PROVIDED TO THE CITY AT THIS MEETING FOR ITS REVIEW.
14. CITY ACCEPTANCE OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM RESPONSIBILITY FOR THE CORRECTION OF ERROR AND OMISSION DISCOVERED DURING CONSTRUCTION. UPON REQUEST OF THE CITY INSPECTOR, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR REVIEW.
15. ANY REQUIRED RIGHT-OF-WAY OR EASEMENT SHALL BE DEDICATED TO AND ACCEPTED BY THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE IMPROVEMENTS WITHIN THE REQUIRED RIGHT-OF-WAY OR EASEMENT.
16. WHERE UTILITIES NEED TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH A.P.W.A. STANDARD 224-1 UNLESS OTHERWISE INDICATED.
17. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING SEWER MAIN(S) AND NOTIFY THE DESIGN ENGINEER OF ANY VARIATION FROM DESIGN.
18. THE PIPE SHOWN HEREON SHALL BE INSTALLED IN ACCORDANCE WITH CASE III BEDDING AS SHOWN ON L.A.C.D.P.W. STANDARD 3080-2, UNLESS OTHERWISE SHOWN. "W" VALUE SHALL BE AS SPECIFIED ON L.A.C.D.P.W. STANDARD 3080-2 FOR CASE III BEDDING, NOTES 3 (A), 3 (B), AND 3 (C). IF THE "W" VALUE AT THE TOP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED. ALL PROPOSED MODIFICATIONS TO THIS REQUIREMENT SHALL BE APPROVED BY THE CITY ENGINEER.
19. MINIMUM COVER OF STORM DRAIN MAIN SHALL BE 7 FEET FROM THE FINISHED SURFACE PER STANDARD DRAWING 1302-1304.
20. STORM DRAIN MAIN STATIONING IS PER PIPE CENTERLINE.
21. STREET CENTERLINE STATIONING IS PER THE STREET IMPROVEMENT PLANS AND PROVIDED FOR REFERENCE.
22. CONTRACTOR SHALL NOT BACKFILL TRENCH UNTIL THE CITY INSPECTOR HAS OBTAINED AS-BUILT STATIONING ON ALL STRUCTURES.
23. UPON COMPLETION OF CONSTRUCTION OF ALL STORM DRAIN LINES AND PRIOR TO PAVING, THE DEVELOPER SHALL HIRE A CITY APPROVED VIDEO COMPANY TO VIDEO TAPE THE PIPELINES. CITY SHALL REVIEW SAID VIDEOTAPES FOR POTENTIAL CONSTRUCTION DEFECTS PRIOR TO ACCEPTANCE OF THE PROJECT.

BASIS OF BEARING

BEARINGS ARE BASED UPON THE CENTERLINE OF EUCLID AVENUE BEING N89°26'19"E AS SHOWN ON RECORD OF SURVEY 92/97 RECORDED AS INSTRUMENT NO. 1991-447293 OF OFFICIAL RECORDS OF THE COUNTY OF SAN BERNARDINO.

UTILITY PURVEYORS:

CITY OF ONTARIO, MUNICIPAL UTILITIES AGENCY
DAYTIME PH: (909) 395-2678
24-HOUR EMERGENCY: (909) 986-6711

CITY OF ONTARIO, COMMUNITY & PUBLIC SERVICES AGENCY
DAYTIME PH: (909) 395-2633
24-HOUR EMERGENCY: (909) 986-6711

INLAND EMPIRE UTILITY AGENCY
DAYTIME PH: (909) 944-6000
24-HOUR EMERGENCY: (909) 987-2591

SOUTHERN CALIFORNIA EDISON
24-HOUR EMERGENCY: (800) 611-1911

SOUTHERN CALIFORNIA GAS COMPANY
DAYTIME PH: (800) 423-1391
24-HOUR EMERGENCY: (800) 423-1391

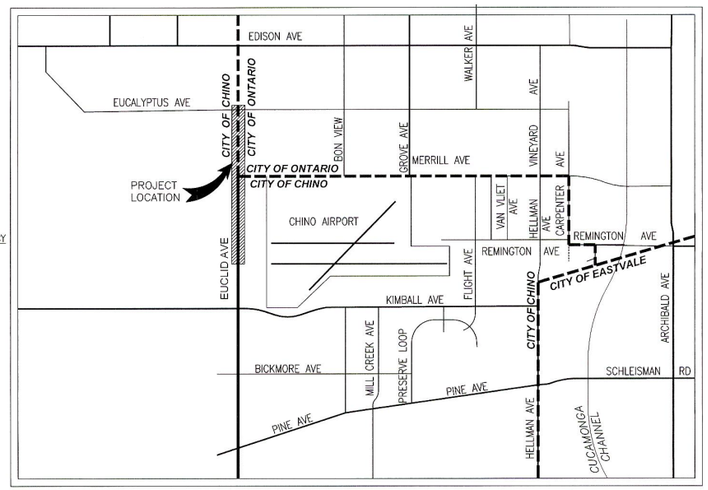
TIME WARNER CABLE / WEST COAST COMMUNICATIONS
24-HOUR EMERGENCY: (888) 892-2253

VERIZON
24-HOUR EMERGENCY: (800) 483-2000

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOTS 1, 2, 3, 16, 17, 18, 19, 20, 21, 34, 35 AND 36 IN SECTION 19, TOWNSHIP 2 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, ACCORDING TO MAP OF SUBDIVISION OF PART OF THE RANCHO SANTA ANA DEL CHINO, RECORDED IN BOOK 6, PAGE 15 OF MAPS, RECORDS OF SAID COUNTY.



VICINITY MAP

N.T.S.

INDEX OF DRAWINGS

INDEX NO.	DESCRIPTION
SHEET 1	TITLE SHEET
SHEET 2	SHEET INDEX AND TYPICAL SECTIONS
SHEET 3	EUCLID AVENUE - FROM MERRILL AVE TO 912' NORTH OF MERRILL AVE
SHEET 4	EUCLID AVENUE - FROM 912' TO 1812' NORTH OF MERRILL AVE
SHEET 5	EUCLID AVENUE - FROM 1812' NORTH OF MERRILL AVE TO EUCALYPTUS AVE
SHEET 6	EUCLID AVENUE - FROM 2171' TO 3071' NORTH OF KIMBALL AVE
SHEET 7	EUCLID AVENUE - FROM 3071' NORTH OF KIMBALL AVE TO 1310' SOUTH OF MERRILL AVE
SHEET 8	EUCLID AVENUE - FROM 1310' TO 590' SOUTH OF MERRILL AVE
SHEET 9	EUCLID AVENUE - FROM 590' SOUTH OF MERRILL AVE TO MERRILL AVE
SHEET 10	CDS & UTILITY CROSSING DETAILS
SHEET 11-21	DETAILS

OWNER/DEVELOPER:

REDA
4100 MACARTHUR, SUITE 120
NEWPORT BEACH, CA 92660

CONTACT: JEFF JOHNSTON
PHONE: (949) 945-6809
EMAIL: JJOHNSTON@REDALLC.COM

CIVIL ENGINEER

WESTLAND GROUP INC.
4150 CONCOURS STREET, SUITE 100
ONTARIO, CA 91764

CONTACT: SIARA R. MACKINNEY, P.E.
PHONE: (909)-403-5647

GEOTECHNICAL ENGINEER:

SOUTHERN CALIFORNIA GEOTECHNICAL
22885 EAST SAVI RANCH PARKWAY, SUITE E
YORBA LINDA, CA 92887

CONTACT: GREGORY K. MITCHELL
PHONE: (714) 685-1115

REFERENCE DRAWINGS

DESCRIPTION	REFERENCE
PROPOSED 8" RECYCLED WATER AT EUCLID AVE	PM 20016 RECYCLED WATER IMPROVEMENT
PROPOSED 16" DOMESTIC WATER AT EUCLID AVE	PM 20016 DOMESTIC WATER IMPROVEMENT PLAN
PROPOSED 36" SEWER AT EUCLID AVE	M-1219 SEWER IMPROVEMENT PLANS
PROPOSED 20" SEWER AT EUCLID AVE	PM 20016 SEWER IMPROVEMENT PLAN

HYDROLOGY LEGEND

Q_{ULT-O} = PEAK FLOW RATE BASED ON THE CITY OF ONTARIO MPD
Q_{ULT-C} = PEAK FLOW RATE BASED ON THE CITY OF CHINO MASTER PLAN UPDATE.
NOTE:
THE CITY OF ONTARIO Q_{ULT-O}=2234.5 FT³/S COMPARED TO THE CITY OF CHINO Q_{ULT-C}=2196.2 FT³/S.

$Q_{INTERIM}$ = PEAK FLOW RATE BASED ON CURRENT LAND COVER.

NOTE:
THE CITY OF ONTARIO $Q_{INTERIM}$=900.1 FT³/S COMPARED TO THE CITY OF CHINO $Q_{INTERIM}$=1142.7 FT³/S.

H_{ULT-O} BASED ON CITY OF ONTARIO Q_{ULT}
H_{ULT-C} BASED ON CITY OF CHINO Q_{ULT}
$H_{INTERIM}$ BASED ON CITY OF CHINO $Q_{INTERIM}$= 1142.7 FT³/S.

$V_{ULT-100}$ = FOUND USING $Q_{ULT-100}$
$V_{INT-100}$ = FOUND USING $Q_{INT-100}$

CIVIL ENGINEERS NOTICE TO CONTRACTOR

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF MY KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTION AND ANY MEASURES TO PROTECT THE UTILITIES AND STRUCTURES SHOWN AND OTHER LINES OR STRUCTURES NOT OF RECORD OR NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO, THESE UTILITY LINES OR STRUCTURES.
2. THE CONTRACTOR AGREES THAT HE WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY AND NOT BE LIMITED TO A NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER, OR ANY PUBLIC AGENCY.
3. THE ESTIMATES OF IMPROVEMENT QUANTITIES AS SHOWN HEREON ARE PROVIDED ONLY FOR THE PURPOSE OF SATISFYING DISTRICT PLAN INFORMATION REQUIREMENTS. THE CONTRACTOR SHALL PERFORM AN INDEPENDENT ESTIMATE OF ALL IMPROVEMENT QUANTITIES AND SHALL USE SAME AS A BASIS FOR HIS BID(S) AND CONTRACT(S).
4. CONTRACTOR TO VERIFY CLEARANCE AT ALL UTILITY CROSSINGS. IF INTERFERENCE OCCURS, OTHER THAN NOTED ON PLAN, CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER FOR POSSIBLE REDESIGN. IF REDESIGN IS NOT FEASIBLE, CONTRACTOR TO RELOCATE UTILITY AT NO EXPENSE TO ENGINEER.
5. CONTRACTOR SHALL TAKE EXTREME CARE DURING STORM DRAIN CONSTRUCTION AND IS RESPONSIBLE FOR TRENCHING AND SHORING. CONTRACTOR SHALL SUBMIT A DETAILED SHORING PLAN PER SECTION 7-10.4.2.2 OF SPPWC AND A PERMIT FROM STATE DIVISION OF INDUSTRIAL SAFETY PRIOR TO COMMENCING WORK.
6. CONTRACTOR SHALL VERIFY PAVEMENT ELEVATION AT RIM PRIOR TO SETTING CONE.

CONSTRUCTION NOTES

ITEM	DESCRIPTION	QUANTITY	
1	CONSTRUCT 108" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	2531	LF
2	CONSTRUCT 102" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	174	LF
3	CONSTRUCT 90" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	101	LF
4	CONSTRUCT 2-24" TEMPORARY HDPE PIPE. BEDDING & BACKFILL PER DETAIL 4 ON SHEET 11, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET ON 20	5550	LF
5	CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 320-2, DETAIL ON SHEET 20	5	EA
6	CONSTRUCT 30" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	38	LF
7	CONSTRUCT PRECAST DBL 10'x10' RCB PER CALTRANS STD D83A & D83B, ALTERNATIVE TO CONSTRUCT CAST-IN-PLACE 10'X10'- WITH SLOPED INVERT RCB PER CALTRANS STD. D81 & D82. BEDDING & BACKFILL PER CALTRANS STD. A62G, DETAILS ON SHEETS 13-18 TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET 20	600	LF
8	CONSTRUCT PRECAST 9.5'x9.5' RCB PER CALTRANS STD D83A & D83B, ALTERNATIVE TO CONSTRUCT CAST-IN-PLACE 9.5'X9.5' INCLUDE V INVERT RCB PER CALTRANS STD. D80. BEDDING & BACKFILL PER CALTRANS STD. A62G, DETAILS ON SHEETS 14, 15, 17 AND 19 TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET 20	56	LF
9	CONSTRUCT TRANSITION STRUCTURE PIPE TO PIPE PER SPPWC STD. 340-2, DETAIL ON SHEET 14	1	EA
10	CONSTRUCT TRANSITION STRUCTURE SINGLE RCB TO DOUBLE RCB PER SPPWC STD. 343-2, DETAIL ON SHEET 12	1	EA
11	CONSTRUCT 36" STORM DRAIN MANHOLE SHAFT WITHOUT REDUCER PER SPPWC STD. 326-2, DETAIL ON SHEET 11	5	EA
12	CONSTRUCT CATCH BASIN NO. 2 PER CITY OF ONTARIO STD. DWG. NO. 3003 & 3015, "W" AND "V" PER PLAN	4	EA
13	CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. NO. 3005, REFER TO PERMIT PM 20016 STREET IMPROVEMENT PLANS FOR DETAILS.	4	EA
14	CONSTRUCT BRICK & MORTAR BULKHEAD PER DETAIL 14 ON SHEET 11	3	EA
15	CONSTRUCT RCB WINDOW PER SPPWC STD 382-2, DETAIL ON SHEET 21	1	EA
16	CONSTRUCT RCB STAND PIPE OUTLET RISER PER DETAIL16 ON SHEET 11	36	EA
17	CONSTRUCT 12" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	260	LF
18	INSTALL TEMPORARY CONCRETE BOTTOM TO CATCH BASIN, PER DETAIL 18 ON SHEET 11	4	EA
19	CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 321-2, DETAIL ON SHEET 16	10	EA
20	CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11	4	EA
21	INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO RIVER" OR EQUIVALENT	4	EA
22	CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 331-3, DETAIL ON SHEET 15	6	EA
23	CONSTRUCT JUNCTION STRUCTURE PIPE TO RCB PER SPPWC STD. 333-2, DETAIL ON SHEET 13	1	EA
24	CONSTRUCT RIP-RAP PER SAN DIEGO REGIONAL STD. DWG. D-40 DETAIL ON SHEET 12	60	CY
25	CONSTRUCT ENDWALL PER DETAIL 25 ON SHEET 18	1	EA
26	CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 19	9	EA
27	CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2, DETAIL ON SHEET 12	4	EA
28	CONSTRUCT PRESSURE MANHOLE SHAFT AND PRESSURE PLATE, PER SPPWC 329-2, DETAIL ON SHEET 17	10	EA
29	CONSTRUCT 24" TEMPORARY HDPE 45° BEND	4	EA
30	CONSTRUCT 12" RCP CONCRETE COLLAR PER SPPWC STD. 380-4, DETAIL ON SHEET 21	1	EA
31	CONSTRUCT CDS UNIT, SIZE PER PLAN PER DETAIL 31 ON SHEET 21	3	EA
32	CONSTRUCT 24" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20	20	LF
33	INSTALL SURVEY MONITORING POINTS AND SETTLEMENT ROD PER CALTRANS TR-0151 AND TR-0152 ON SHEET 18	2	EA

LEGEND OF ABBREVIATIONS

BC	BEGIN CURVE	LT	LEFT
BCR	BEGIN CURB RETURN	LP	LOW POINT
BNDY	BOUNDARY	MIN	MINIMUM
C+G	CURB AND GUTTER	PCC	POINT OF COMPOUND CURVE
CB	CATCH BASIN	℄ OR P/L OR PL	PROPERTY LINE
CFS	CUBIC FEET PER SECOND	PRC	POINT OF REVERSE CURVE
℄ OR C/L OR CL	CENTERLINE	PVC	POLYVINYL CHLORIDE
DBL	DOUBLE	RCB	REINFORCED CONCRETE BOX
DW	DOMESTIC WATER	RCP	REINFORCED CONCRETE PIPE
EC	END CURVE	RT	RIGHT
ECR	END CURB RETURN	RW	RECYCLED WATER
EP	EDGE OF PAVEMENT	R/W	RIGHT OF WAY
ESMT	EASEMENT	SD	STORM DRAIN
EX, EXIST.	EXISTING	SL	STREET LIGHT
FH	FIRE HYDRANT	SP	STAND PIPE (RCP)
FL	FLOW LINE	SS	SANITARY SEWER
FS	FINISHED SURFACE	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
FT/S	FEET PER SECOND	STA	STATION
GB	GRADE BREAK	TC	TOP OF CURB
HDPE	HIGH DENSITY POLY ETHYLENE	TYP	TYPICAL
HP	HIGH POINT	ULT	ULTIMATE
INT	INTERIM		
INV	INVERT		

LEGEND OF SYMBOLS

EXISTING CONTOURS
PROP. CONTOUR
EXIST. EASEMENT
FLOW RATE
CENTERLINE
FIRE HYDRANT
SIGN
PROPOSED STORM DRAIN MH
PROPOSED CATCH BASIN
PROPOSED STORM DRAIN
BOUNDARY LINE
FENCE LINE
STREET LIGHT

811 Know what's below. Call 811 before you dig.

RECOMMENDED FOR ACCEPTANCE
TECK, C. LOH, P.E.
HARRIS AND ASSOCIATES — DATE 7/13/2022

CITY OF CHINO
RECOMMENDED BY: CITY ENGINEER — DATE 8/8/2022

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO
RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/26/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/28/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA ROSE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. — Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. 85559 R.C.E. NO. — DATE 6/22/22

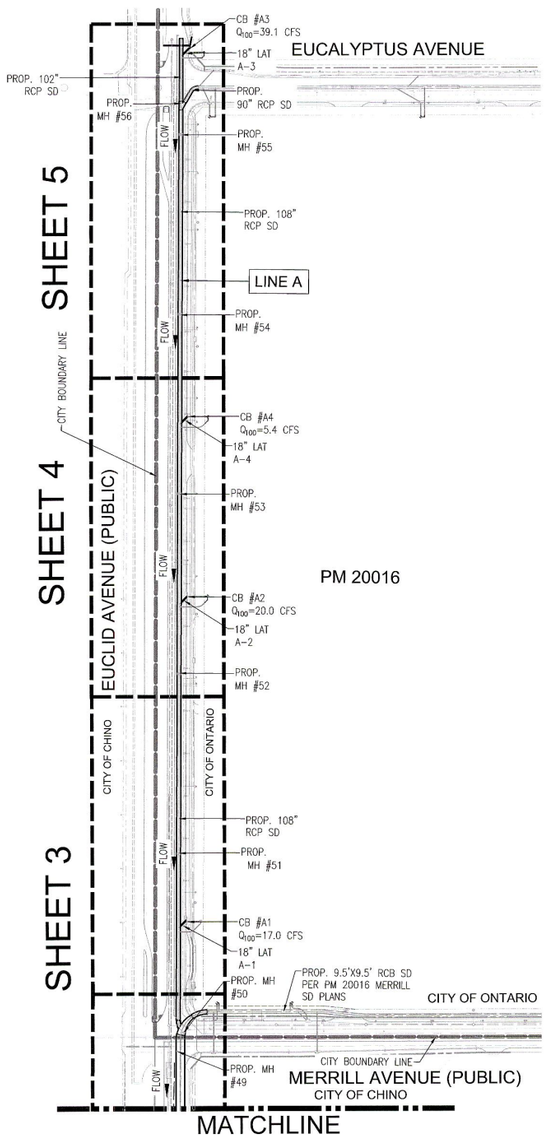
STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
TITLE SHEET

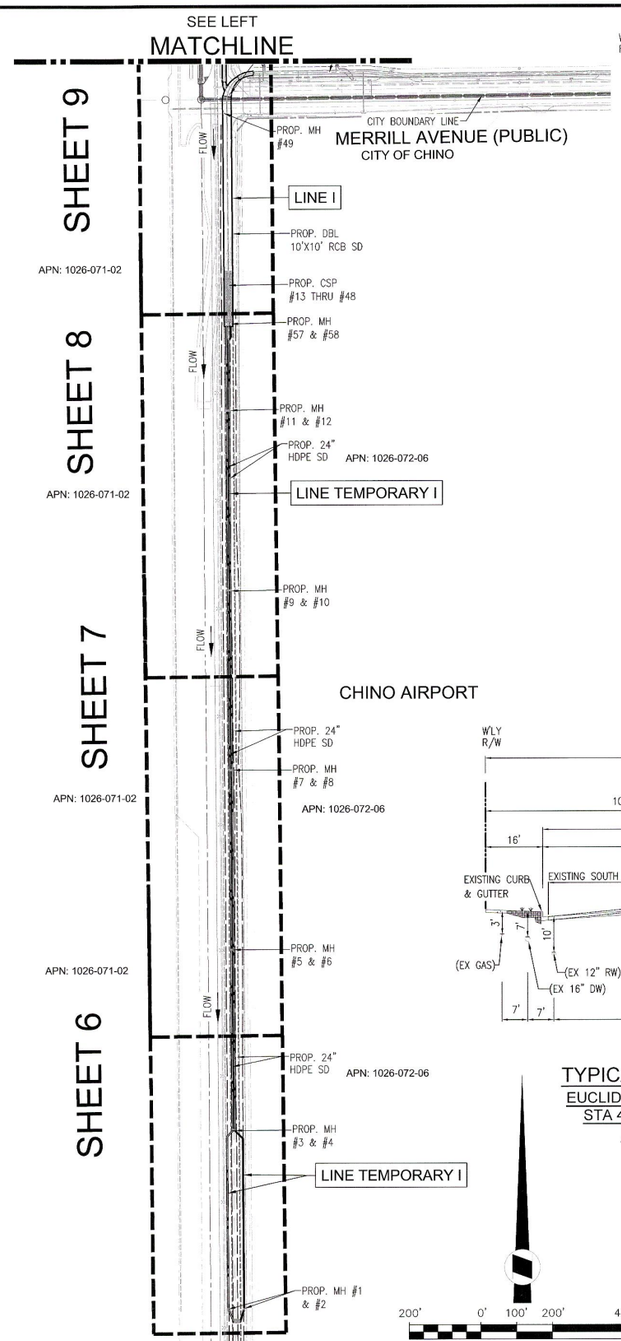
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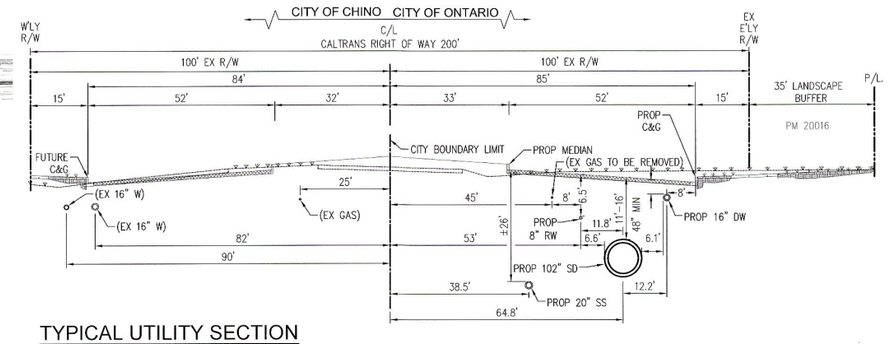
SHEET 1 OF 21
CONTRACT
ACCOUNT
DWG. NO. D14485
AA 5949SD

06/16/2022

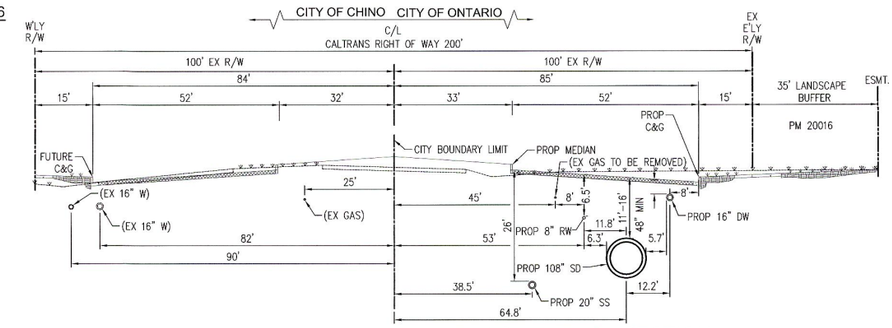
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Last Opened: Jun 16, 2022 - 3:14pm by: Brent.King



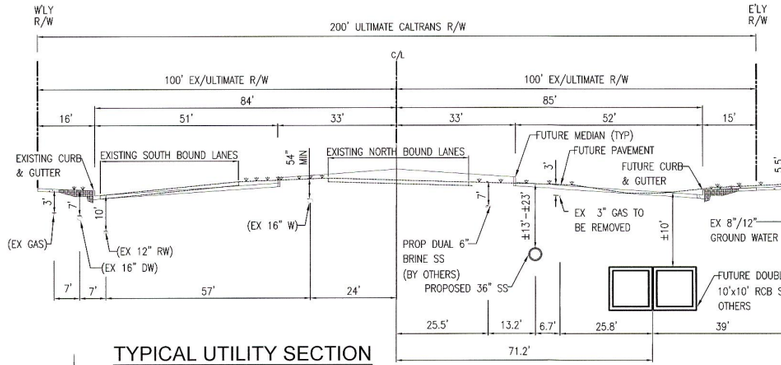




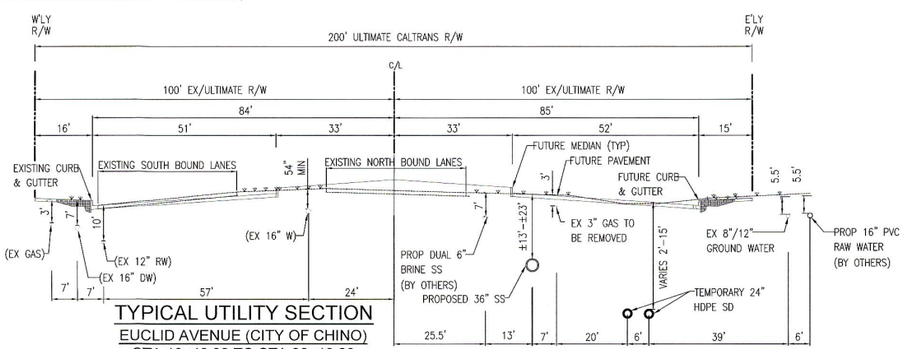
TYPICAL UTILITY SECTION
EUCLID AVENUE
STA 35+87.99 TO STA 37+62.56
LINE A STATIONING
N.T.S.



TYPICAL UTILITY SECTION
EUCLID AVENUE
STA 10+33.24 TO STA 35+64.75
LINE A STATIONING
N.T.S.



TYPICAL UTILITY SECTION
EUCLID AVENUE (CITY OF CHINO)
STA 4+04.72 TO STA 10+03.77
LINE I STATIONING
N.T.S.



TYPICAL UTILITY SECTION
EUCLID AVENUE (CITY OF CHINO)
STA 10+46.32 TO STA 38+19.29
LINE TEMPORARY I STATIONING
N.T.S.

SHEET INDEX/SYSTEM MAP

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — 7/19/22 DATE
ACCEPTED BY: KHOI DO, P.E. CITY ENGINEER — 7/19/22 DATE

CITY OF CHINO

RECOMMENDED BY: CITY ENGINEER — 8/8/22 DATE

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1," SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF EOR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA REBE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE

SHEET INDEX AND TYPICAL SECTIONS

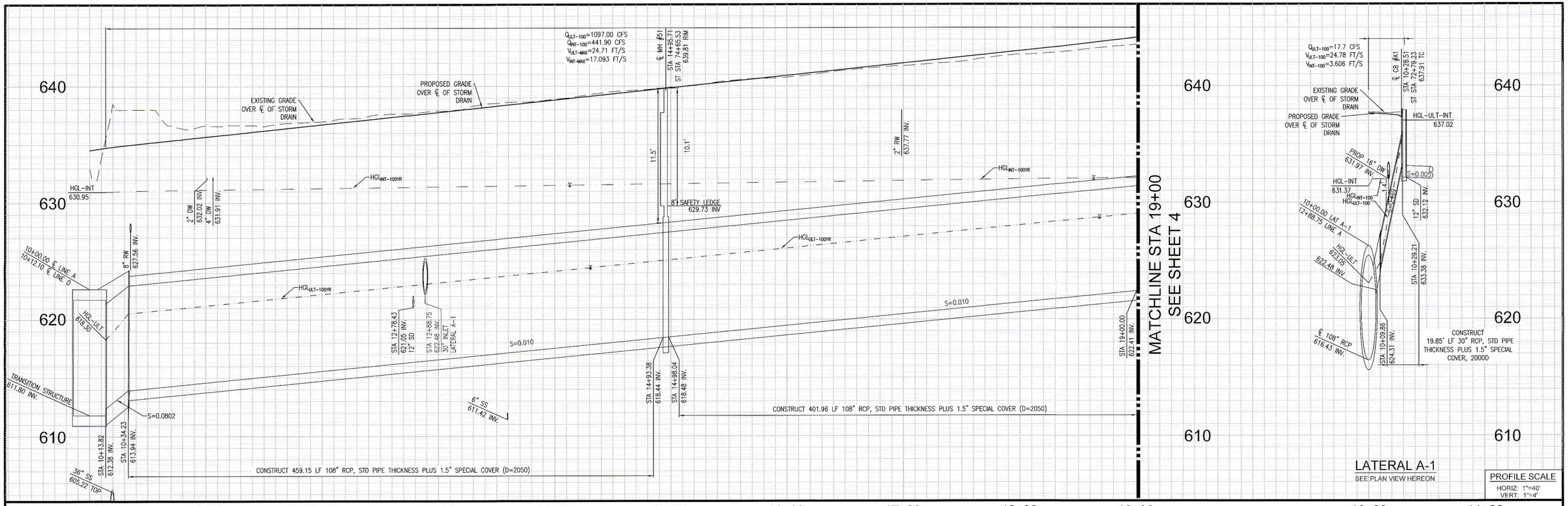
CALTRANS # 08-22-6-UT-0007

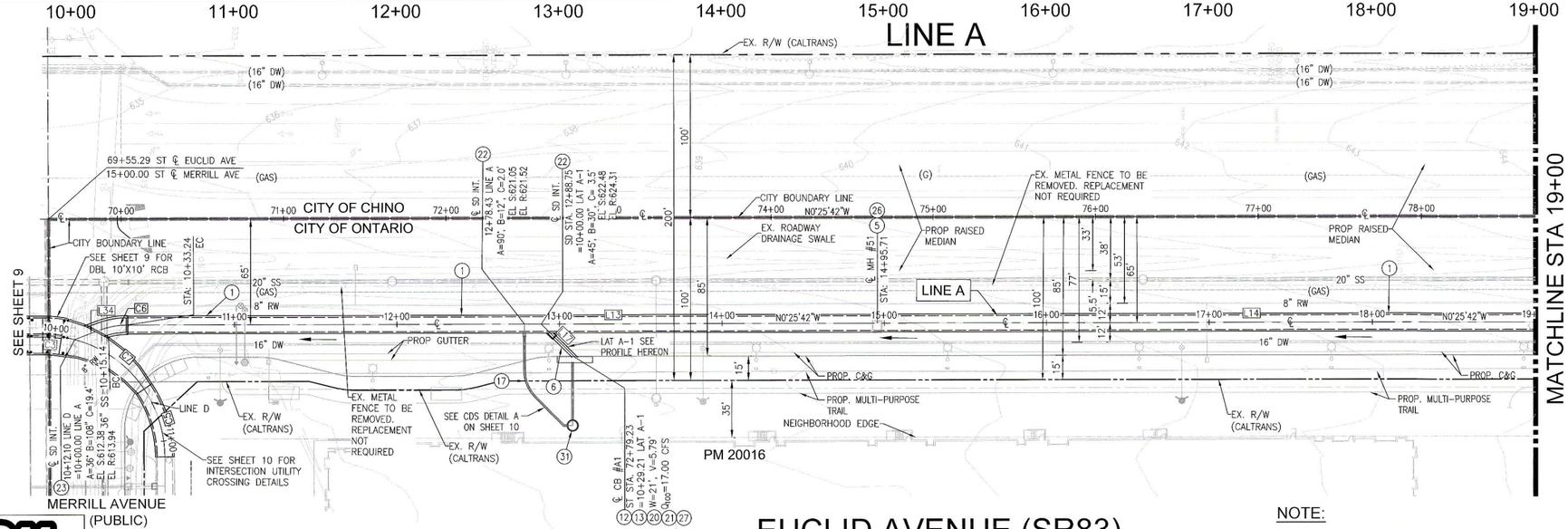
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SHEET 2 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

06/03/2022

Drawing Name: P:\Year_2020\2020-015 RDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\02_2020-015_SD-USM.dwg
Last Opened: Jun 03, 2022 - 3:46pm by: BrentKing





CONSTRUCTION NOTES

1. CONSTRUCT 108" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
5. CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 320-2, DETAIL ON SHEET 20
6. CONSTRUCT 30" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
12. CONSTRUCT CATCH BASIN NO. 2 PER CITY OF ONTARIO STD. DWG. NO. 3003 & 3015, "W" AND "V" PER PLAN
13. CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. NO. 3005, REFER TO PERMIT PM 20016 STREET IMPROVEMENT PLANS FOR DETAILS.
17. CONSTRUCT 12" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
20. CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11
21. INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO RIVER" OR EQUIVALENT
22. CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 331-3, DETAIL ON SHEET 15
23. CONSTRUCT JUNCTION STRUCTURE PIPE TO RCB PER SPPWC STD. 333-2, DETAIL ON SHEET 13
26. CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 19
27. CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2, DETAIL ON SHEET 12
31. CONSTRUCT CDS UNIT, SIZE PER PLAN PER DETAIL 31 ON SHEET 21

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
C5	033°39'48.2"	44.07'	75.00'	22.69
C6	020°49'26.7"	16.36'	45.00'	8.27
C7	047°22'56.9"	62.02'	75.00'	32.91
L13	N0°25'42"W	460.14'		
L14	N0°25'42"W	495.34'		
L17	N44°34'18"E	17.93'		

NOTE:

- CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ON SITE PROPERTY OWNER PER WQMP MANAGEMENT AGREEMENT
- NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

LEGEND

STORM DRAIN FLOW DIRECTION

40' 0' 20' 40' 80'

SCALE: 1" = 40'

811 Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/28/22

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/28/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF EGR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER SIARA ROSE MACKINNEY No.85559 Exp. 9/30/2022 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. 85559 R.C.E. NO. 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE

FROM MERRILL AVE TO 912' NORTH OF MERRILL AVE

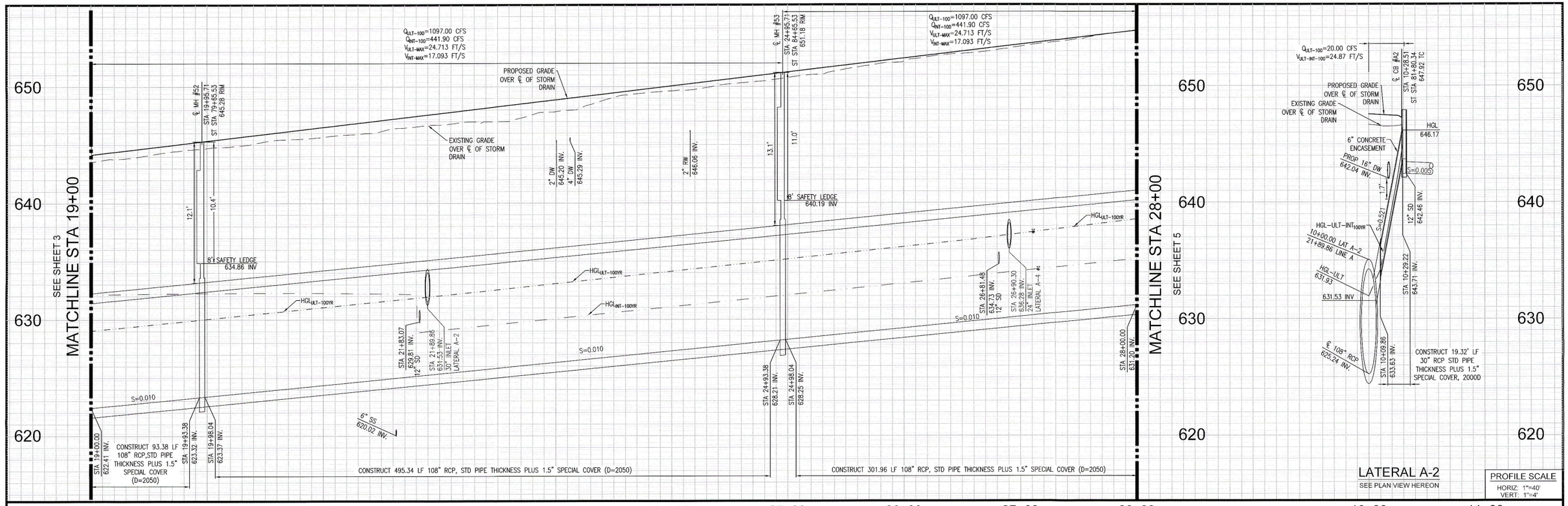
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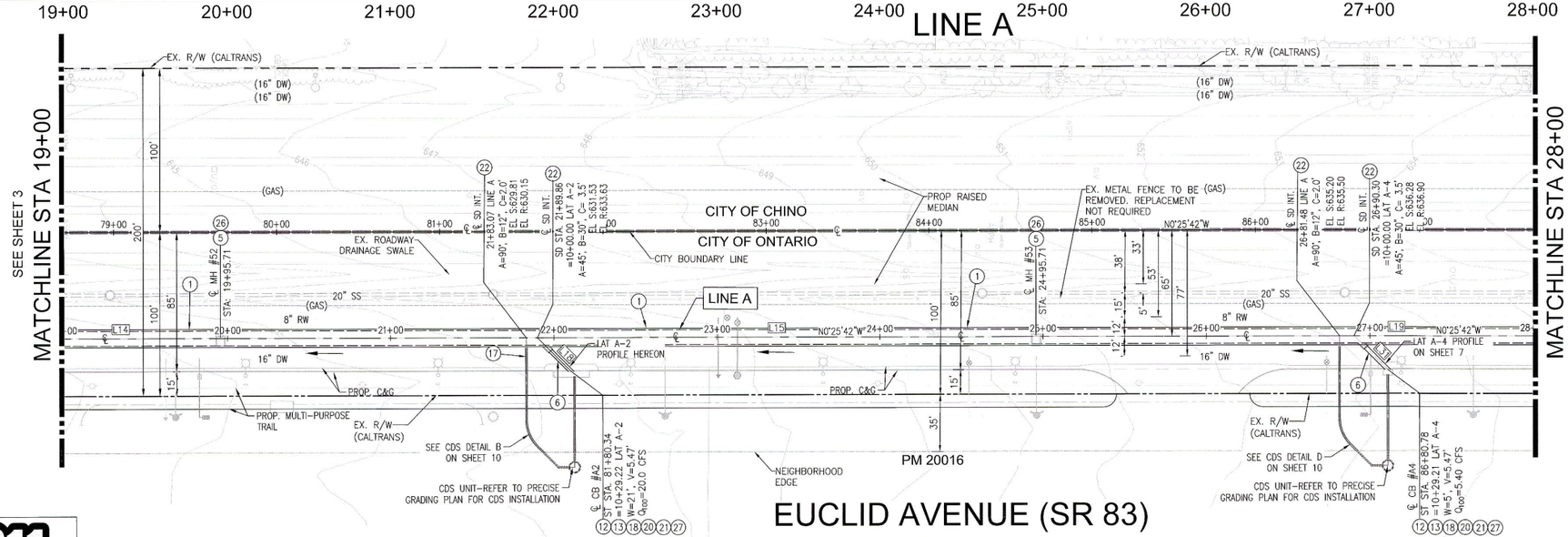
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SHEET 3 OF 21
CONTRACT
ACCOUNT
DWG. NO. D14487
AA 5949 SD

06/16/2022

Drawing Name: P:\Yep-2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\03_2020-015_SD-PP.dwg
Last Opened: Jun 16, 2022 - 2:49pm by: BrentKing





CONSTRUCTION NOTES

1. CONSTRUCT 108" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
5. CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 320-2, DETAIL ON SHEET 20
6. CONSTRUCT 30" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
12. CONSTRUCT CATCH BASIN NO. 2 PER CITY OF ONTARIO STD. DWG. NO. 3003 & 3015, "W" AND "V" PER PLAN
13. CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. NO. 3005, REFER TO PERMIT PM 20016 STREET IMPROVEMENT PLANS FOR DETAILS.
17. CONSTRUCT 12" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
18. INSTALL TEMPORARY CONCRETE BOTTOM TO CATCH BASIN, PER DETAIL 18 ON SHEET 11
20. CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11
21. INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO RIVER" OR EQUIVALENT
22. CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 331-3, DETAIL ON SHEET 15
26. CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 19
27. CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2, DETAIL ON SHEET 12

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L14	N0°25'42"W	495.34'		
L15	N0°25'42"W	495.34'		
L18	N44°33'24"E	17.94'		
L19	N0°25'42"W	495.34'		
L31	N44°33'51"E	19.37'		

NOTE:

- WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED.
- CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ON SITE PROPERTY OWNER PER WQMP MANAGEMENT AGREEMENT
- NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

LEGEND

STORM DRAIN FLOW DIRECTION

40' 0' 20' 40' 80'

SCALE: 1" = 40'

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/8/22

ACCEPTED BY: KHOI DO, P.E. CITY ENGINEER — DATE 7/12/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF EGR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA ROSE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE

FROM 912' TO 1812' NORTH OF MERRILL AVE

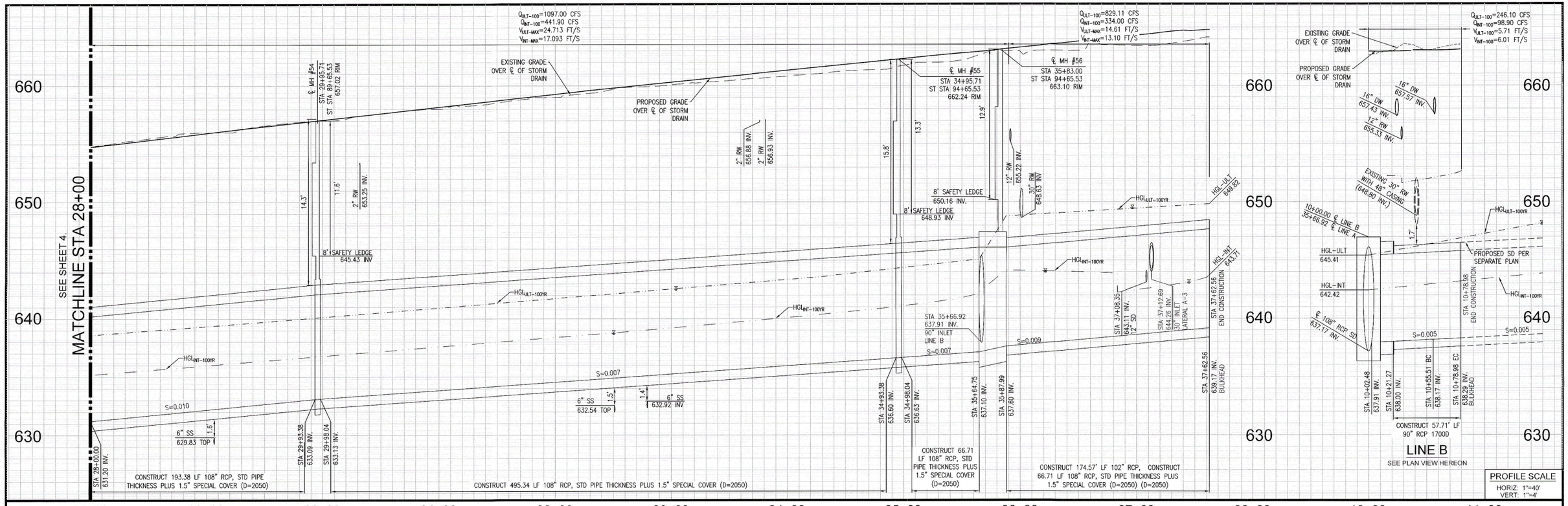
CALTRANS # 08-22-6-UT-0007

PM-20016

SHEET 4 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 59495D

06/16/2022

Drawing Name: P:\Eng\2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\04_2020-015_SD-PP.dwg
Last Opened: Jun 16, 2022 - 2:25pm by: BrentKing



STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
C4	059°45'58.3"	23.47'	22.50'	12.93
L16	N0°25'42"W	174.57'		
L19	N0°25'42"W	495.34'		
L21	N0°25'42"W	28.79'		

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L22	N29°32'41"E	55.51'		
L27	N0°25'42"W	495.34'		
L28	N0°25'42"W	66.72'		
L33	N44°34'18"E	20.20'		

NOTE:
- WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED.
- CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ON SITE PROPERTY OWNER PER WQMP MANAGEMENT AGREEMENT
- NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

811 Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRIAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/28/22

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/28/22

BENCH MARK No. GG-18-1
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REGISTERED PROFESSIONAL ENGINEER SIARA REE MACKINNEY No.85559 Exp. 9/30/2022 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE

FROM 1812' NORTH OF MERRILL AVE TO EUCALYPTUS AVE

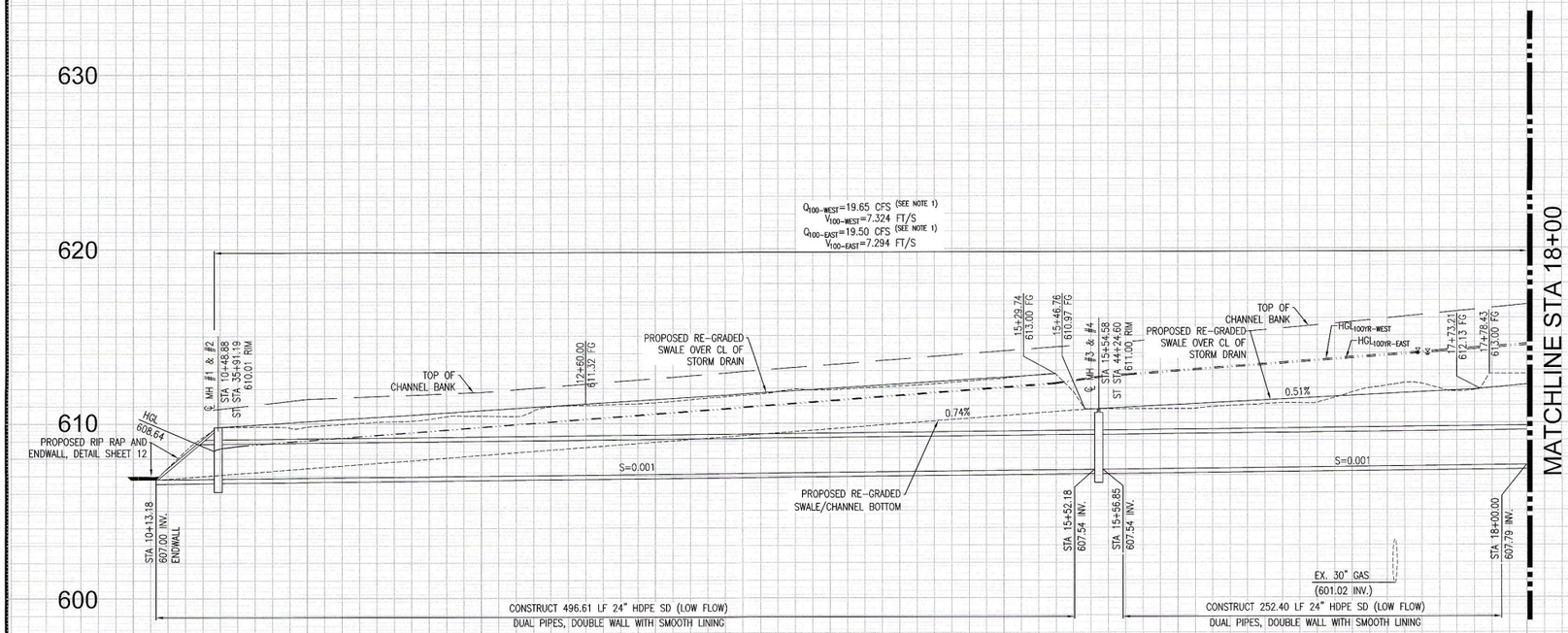
CALTRANS # 08-22-6-UT-0007

PM-20016

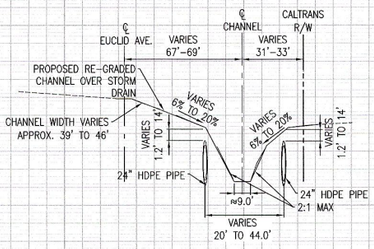
SHEET 5 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 3D

06/16/2022

Drawing Name: P:\PROJECTS\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\05_2020-015_3D-PP.dwg
Last Opened: Jun 16, 2022 - 5:03pm by: BenKuang

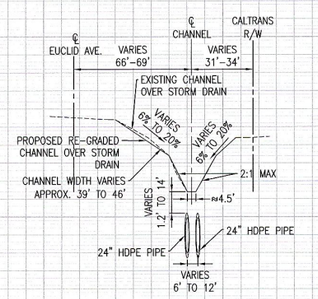


NOTE 1: THE 39 CFS IS BASED ON THE MAXIMUM FLOW RATE THAT CAN BE CONVEYED BY THE DOUBLE 24-INCH STORM DRAIN SYSTEM; THE 39 CFS IN AN INTERIM CONDITION UNTIL SUCH TIME ULTIMATE LINE "I" IS CONSTRUCTED WITHIN THE CITY OF CHINO.



TYPICAL CROSS SECTION

STA: 10+13.18 TO STA: 15+54.58



TYPICAL CROSS SECTION

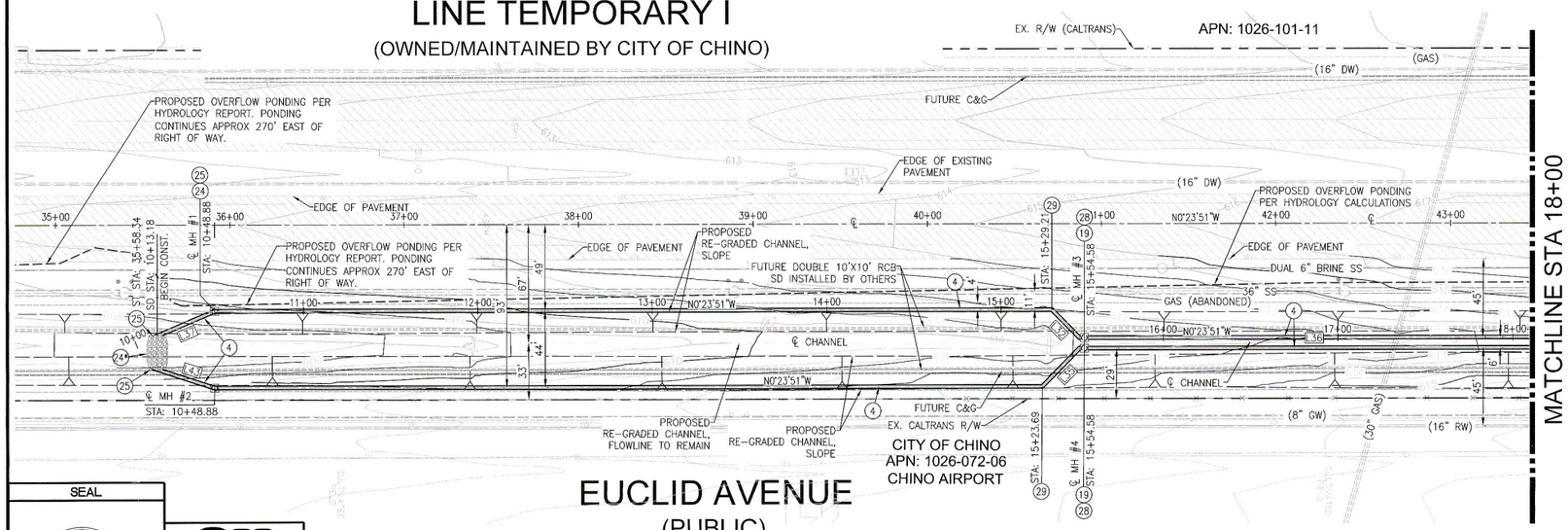
STA: 15+54.58 TO STA: 38+28.61

PROFILE SCALE
HORIZ: 1"=40'
VERT: 1"=4'

10+00 11+00 12+00 13+00 14+00 15+00 16+00 17+00 18+00

LINE TEMPORARY I

(OWNED/MAINTAINED BY CITY OF CHINO)



EUCLID AVENUE

(PUBLIC)

CONSTRUCTION NOTES

(4) CONSTRUCT 2-24" TEMPORARY HDPE PIPE. BEDDING & BACKFILL PER DETAIL 4 ON SHEET 11, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET ON 20

(19) CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 321-2, DETAIL ON SHEET 16

(24) CONSTRUCT RIP-RAP PER SAN DIEGO REGIONAL STD. DWG. D-40 DETAIL ON SHEET 12

(25) CONSTRUCT ENDWALL PER DETAIL 25 ON SHEET 18

(28) CONSTRUCT PRESSURE MANHOLE SHAFT AND PRESSURE PLATE, PER SPPWC 329-2, DETAIL ON SHEET 17

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L32	S45°02'17"W	22.61'		
L35	S45°50'14"E	30.52'		
L36	N0°23'51"W	495.89'		
L37	S23°25'44"E	35.70'		
L43	N17°41'12"E	29.81'		

SEAL

REGISTERED PROFESSIONAL ENGINEER — JOHN REE MOTAMED — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

6/22/22

811 Know what's below. Call 811 before you dig.

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/20/22

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER for — DATE 7/19/22

PAVEMENT LEGEND

EXISTING AC PAVEMENT TO REMAIN

* PROPOSED RIP RAP SHALL BE ½ TON ROCK WITH FOLLOWING GRADATION
½ TON – 0 TO 5% PASSING
200 LB – 50 TO 100% PASSING
75 LB – 90 TO 100% PASSING

NOTE:
NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

LEGEND

STORM DRAIN FLOW DIRECTION

40' 0' 20' 40' 80'
SCALE: 1" = 40'

CALTRANS # 08-22-6-UT-0007

PREPARED BY	REVISIONS	MADE BY	MADE DATE	RECOMMENDED BY	RECOMMENDED DATE	BENCH MARK DATA
FIRM: WESTLAND GROUP, INC.						BENCH MARK No. GG-18-1
ADDRESS: 4150 CONCOURS, ONTARIO, CA 91764						ELEV. 635.314' (NAVD '88) LEVELED 2018
TELEPHONE: (909) 989-9789 FAX: (909) 989-9660						LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.
SIGNATURE RCE 85559 DATE						

REFERENCE DRAWINGS	REVIEWED BY STAFF	BY	DATE
	WATER:		
	SEWER:		
	FIRE:		
	PLANNING:		
	TRAFFIC:		
	ENVIRONMENTAL:		

CITY ENGINEER'S STAFF	BY	DATE
DRAWN:		
DESIGNED:		
CHECKED:		
RECOMMENDED:		

RECOMMENDED BY:
CITY ENGINEER
DATE: 8/8/22

CITY OF CHINO ENGINEERING DIVISION

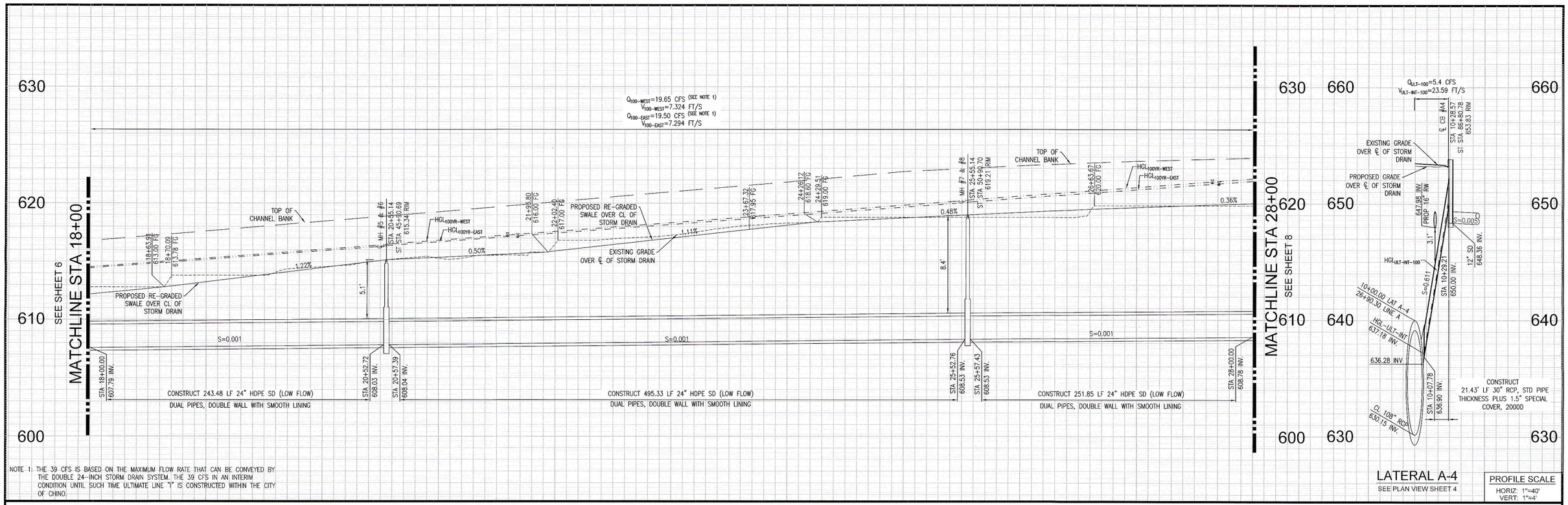
STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE
FROM 2171' TO 3071' NORTH OF KIMBALL AVE

PROJECT NO. PM-20016
SHEET 6 OF 21
DRAWING NO. AA 5940 SD D14990

06/08/2022

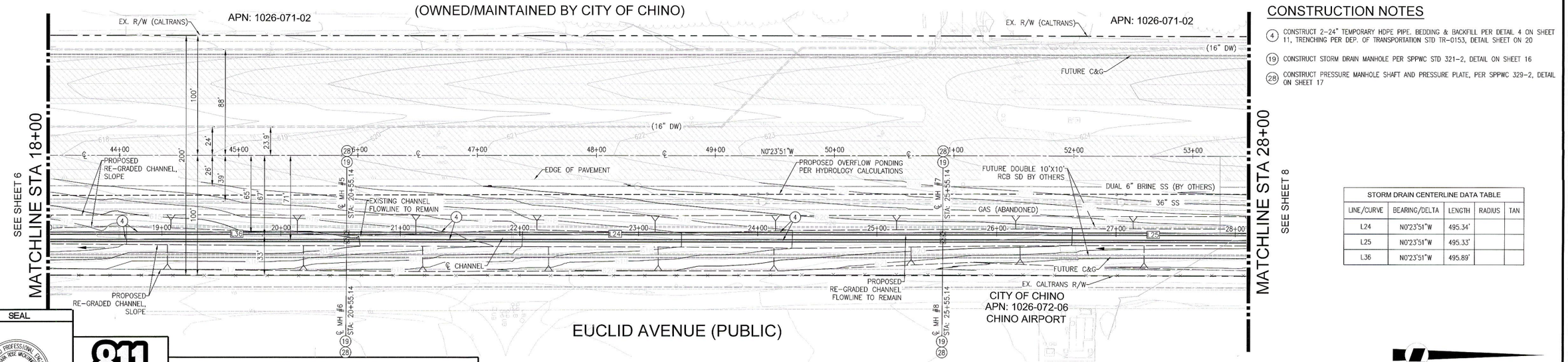
Drawing Name: R:\Yard 2020\2020-015 RDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\06_09_2020-015_SD-PF.dwg
Last Opened: Jun 08, 2022 - 2:32pm By: BrentLong



NOTE 1: THE 39 CFS IS BASED ON THE MAXIMUM FLOW RATE THAT CAN BE CONVEYED BY THE DOUBLE 24-INCH STORM DRAIN SYSTEM. THE 39 CFS IN AN INTERIM CONDITION UNTIL SUCH TIME ULTIMATE LINE "I" IS CONSTRUCTED WITHIN THE CITY OF CHINO.

LINE TEMPORARY I

(OWNED/MAINTAINED BY CITY OF CHINO)



CONSTRUCTION NOTES

(4) CONSTRUCT 2-24" TEMPORARY HDPE PIPE. BEDDING & BACKFILL PER DETAIL 4 ON SHEET 11, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET ON 20

(19) CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 321-2, DETAIL ON SHEET 16

(28) CONSTRUCT PRESSURE MANHOLE SHAFT AND PRESSURE PLATE, PER SPPWC 329-2, DETAIL ON SHEET 17

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L24	N0°23'51"W	495.34'		
L25	N0°23'51"W	495.33'		
L36	N0°23'51"W	495.89'		

PAVEMENT LEGEND

EXISTING AC PAVEMENT TO REMAIN

NOTE:
NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

LEGEND

STORM DRAIN FLOW DIRECTION

40' 0' 20' 40' 80'
SCALE: 1" = 40'

CALTRANS # 08-22-6-UT-0007

SEAL

REGISTERED PROFESSIONAL ENGINEER
No. 85559
Exp. 9/30/2022
CIVIL
STATE OF CALIFORNIA
10/22/22

Know what's below. Call 811 before you dig.

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/28/22

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/28/22

PREPARED BY	REVISIONS	MADE BY	MADE DATE	RECOMMENDED BY	RECOMMENDED DATE	BENCH MARK DATA	REFERENCE DRAWINGS	REVIEWED BY STAFF	BY	DATE	CITY ENGINEER'S STAFF	BY	DATE	RECOMMENDED BY:
FIRM: WESTLAND GROUP, INC.	1					BENCH MARK No. GG-18-1		WATER:			DRAWN:			
ADDRESS: 4150 CONCOURS, ONTARIO, CA 91764	2					ELEV. 635.314' (NAVD '88) LEVELED 2018		SEWER:			DESIGNED:			
TELEPHONE: (909) 989-9789 FAX: (909) 989-9660	3					LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.		FIRE:			PLANNING:			
	4							PLANNING:			CHECKED:			
	5							TRAFFIC:						
SIGNATURE RCE 85559 DATE	6							ENVIRONMENTAL:			RECOMMENDED:			CITY ENGINEER DATE: 8/8/22

CITY OF CHINO ENGINEERING DIVISION

STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE

FROM 3071' NORTH OF KIMBALL AVE TO 1310' SOUTH OF MERRILL AVE

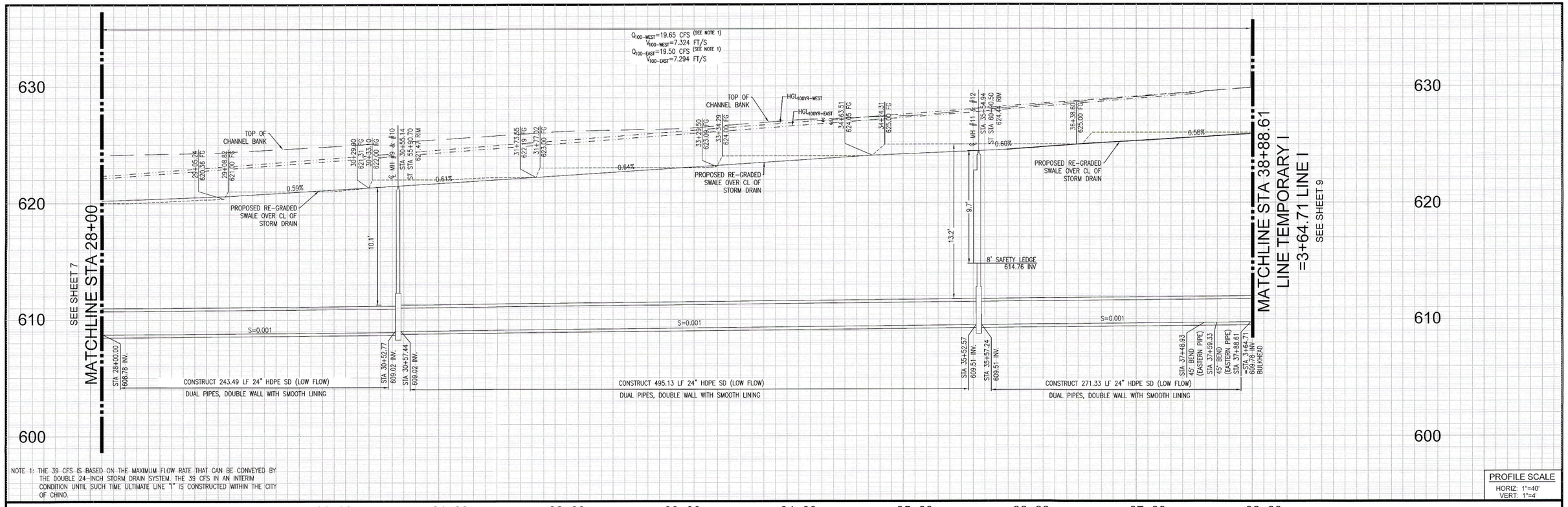
PROJECT NO. PM-20016

SHEET 7 OF 21

DRAWING NO. AA 5949 SD D14-01

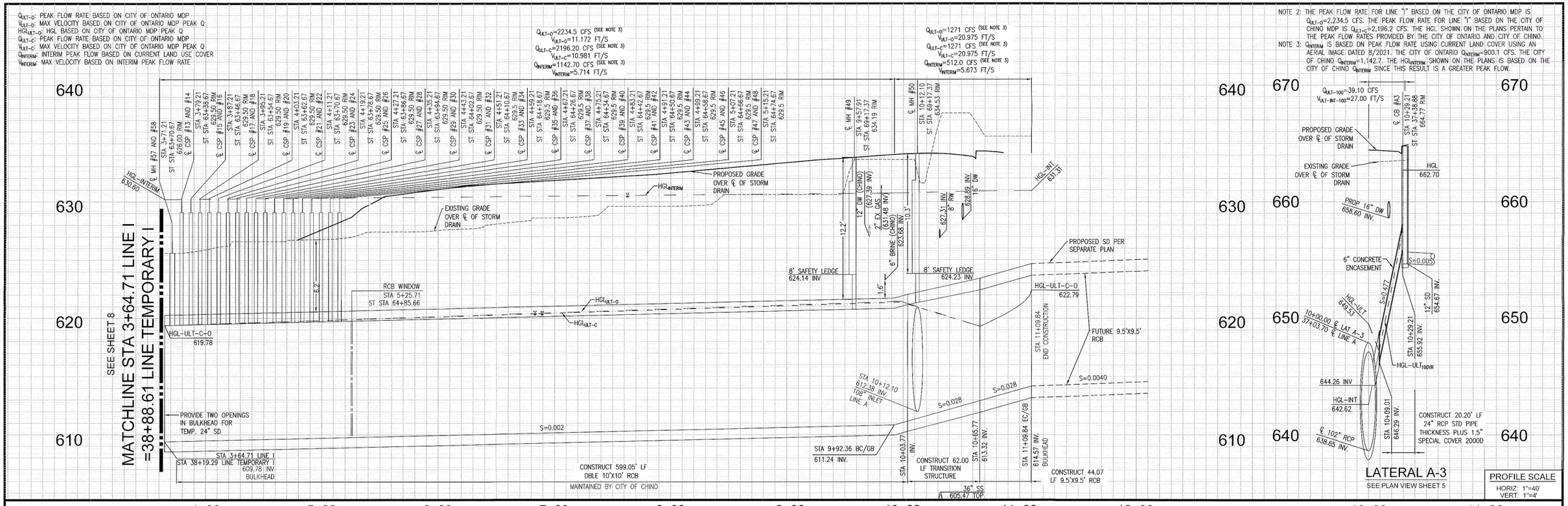
06/16/2022

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Last Opened: Jun 16, 2022 - 9:03am by: Brent.King

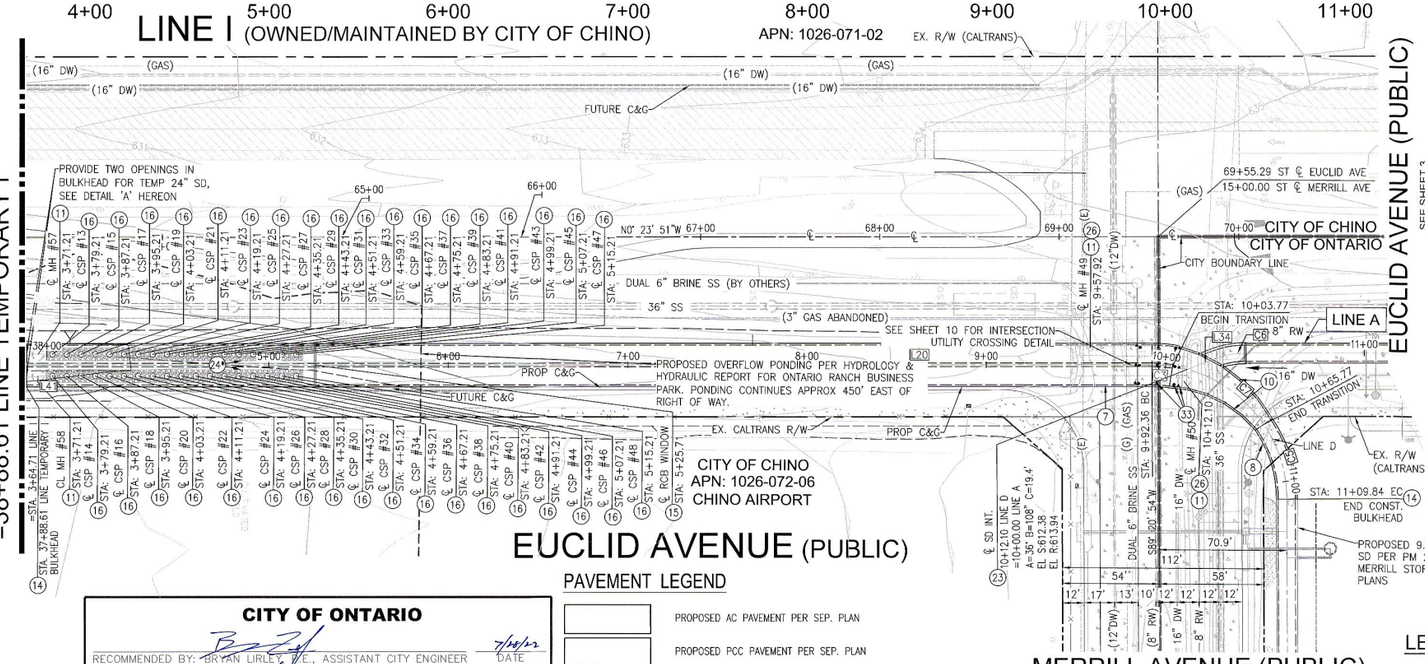

Q100-WEST=19.65 CFS (SEE NOTE 1)
V100-WEST=7.324 FT/S
Q100-EAST=19.50 CFS (SEE NOTE 1)
V100-EAST=7.294 FT/S
630
620
610
600
SEE SHEET 7
MATCHLINE STA 28+00
TOP OF CHANNEL BANK
294+05.24 620.36 FG
294+08.82 621.00 FG
PROPOSED RE-GRADED SWALE OVER CL OF STORM DRAIN
0.59%
0.61%
0.64%
0.60%
0.56%
10.1'
13.2'
9.7'
8" SAFETY LEDGE 614.76 INV
S=0.001
STA 28+00.00 608.78 INV.
STA 30+52.77 609.02 INV.
STA 30+57.44 609.02 INV.
STA 35+52.57 609.51 INV.
STA 35+57.24 609.51 INV.
CONSTRUCT 243.49 LF 24" HDPE SD (LOW FLOW)
DUAL PIPES, DOUBLE WALL WITH SMOOTH LINING
CONSTRUCT 495.13 LF 24" HDPE SD (LOW FLOW)
DUAL PIPES, DOUBLE WALL WITH SMOOTH LINING
CONSTRUCT 271.33 LF 24" HDPE SD (LOW FLOW)
DUAL PIPES, DOUBLE WALL WITH SMOOTH LINING
STA 37+48.93 45° BEND (EASTERN PIPE)
STA 37+59.33 45° BEND (EASTERN PIPE)
STA 37+88.61 =STA 3+64.71 BULKHEAD
MATCHLINE STA 38+88.61 LINE TEMPORARY I =3+64.71 LINE I
SEE SHEET 9
PROFILE SCALE
HORIZ: 1"=40'
VERT: 1"=4'
NOTE 1: THE 39 CFS IS BASED ON THE MAXIMUM FLOW RATE THAT CAN BE CONVEYED BY THE DOUBLE 24-INCH STORM DRAIN SYSTEM. THE 39 CFS IN AN INTERIM CONDITION UNTIL SUCH TIME ULTIMATE LINE "I" IS CONSTRUCTED WITHIN THE CITY OF CHINO.
28+00
29+00
30+00
31+00
32+00
33+00
34+00
35+00
36+00
37+00
38+00
LINE TEMPORARY I
(OWNED/MAINTAINED BY CITY OF CHINO)
APN: 1026-071-02
EX. R/W (CALTRANS)
(GAS)
(16" DW)
FUTURE C&G
PROPOSED OVERFLOW PONDING PER HYDROLOGY & HYDRAULIC REPORT FOR ONTARIO RANCH BUSINESS PARK. PONDING CONTINUES APPROX 450' EAST OF RIGHT OF WAY.
PROPOSED OVERFLOW PONDING PER HYDROLOGY CALCULATIONS
PROPOSED RE-GRADED CHANNEL, SLOPE
EDGE OF PAVEMENT
DUAL 6" BRINE SS (BY OTHERS)
GAS (ABANDONED)
FUTURE DOUBLE 10'X10' RCB SD INSTALLED BY OTHERS
36" SS
N0°23'51"W
PROPOSED RE-GRADED CHANNEL, FLOWLINE TO REMAIN
PROPOSED RE-GRADED CHANNEL, SLOPE
CITY OF CHINO
APN: 1026-072-06
CHINO AIRPORT
EX. CALTRANS R/W
EUCLID AVENUE
(PUBLIC)
MATCHLINE STA 37+88.61 LINE TEMPORARY I
=3+64.71 LINE I
SEE SHEET 9
CONSTRUCTION NOTES
4 CONSTRUCT 2-24" TEMPORARY HDPE PIPE. BEDDING & BACKFILL PER DETAIL 4 ON SHEET 11, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL SHEET ON 20
14 CONSTRUCT BRICK & MORTAR BULKHEAD PER DETAIL 14 ON SHEET 11
19 CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD 321-2, DETAIL ON SHEET 16
26 CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 19
28 CONSTRUCT PRESSURE MANHOLE SHAFT AND PRESSURE PLATE, PER SPPWC 329-2, DETAIL ON SHEET 17
29 CONSTRUCT 24" TEMPORARY HDPE 45° BEND
STORM DRAIN CENTERLINE DATA TABLE
LINE/CURVE | BEARING/DELTA | LENGTH | RADIUS | TAN
L25 | N0°23'51"W | 495.33' | |
L26 | N0°23'51"W | 495.13' | |
L39 | N0°23'51"W | 191.66' | |
L40 | N29°36'09"E | 12.00' | |
L41 | N0°23'51"W | 69.28' | |
L42 | N0°23'51"W | 271.33' |
40' 0' 20' 40' 80'
SCALE: 1" = 40'
NOTE:
NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS
PAVEMENT LEGEND
PROPOSED AC PAVEMENT PER SEP. PLAN
EXISTING AC PAVEMENT TO REMAIN
LEGEND
STORM DRAIN FLOW DIRECTION
SEAL
REGISTERED PROFESSIONAL ENGINEER
SEAN REE MCINNIS
No.85559
Exp. 9/30/2022
CIVIL
STATE OF CALIFORNIA
6/22/22
811
Know what's below.
Call 811 before you dig.
CITY OF ONTARIO
RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER 7/26/22 DATE
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER 7/28/22 DATE
CALTRANS # 08-22-6-UT-0007
PREPARED BY
FIRM: WESTLAND GROUP, INC.
ADDRESS: 4150 CONCOURS, ONTARIO, CA 91764
TELEPHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE RCE 85559 DATE
REVISIONS
MADE BY DATE
RECOMMENDED BY DATE
BENCH MARK DATA
BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.
REFERENCE DRAWINGS
REVIEWED BY STAFF | BY | DATE
WATER:
SEWER:
FIRE:
PLANNING:
TRAFFIC:
ENVIRONMENTAL:
CITY ENGINEER'S STAFF | BY | DATE
DRAWN:
DESIGNED:
CHECKED:
RECOMMENDED:
RECOMMENDED BY:
CITY ENGINEER
DATE: 8/8/22
CITY OF CHINO ENGINEERING DIVISION
STORM DRAIN IMPROVEMENT PLAN & PROFILE
EUCLID AVENUE
FROM 1310' TO 590' SOUTH OF MERRILL AVE
PROJECT NO.
PM-20016
SHEET 8 OF 21
DRAWING NO.
AA 5049-2D
B14492
06/16/2022
Drawing Name: P:\PM\2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\06_09_2020-015_SD-PP.dwg
Last Opened: Jun 16, 2022 - 8:05am By: BrentKing

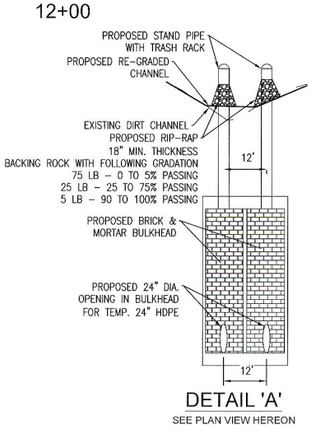
Q_{ULT-O}: PEAK FLOW RATE BASED ON CITY OF ONTARIO MDP
V_{ULT-O}: MAX VELOCITY BASED ON CITY OF ONTARIO MDP PEAK Q
HGL_{ULT-O}: HGL BASED ON CITY OF ONTARIO MDP PEAK Q
Q_{ULT-C}: PEAK FLOW RATE BASED ON CITY OF ONTARIO MDP
V_{ULT-C}: MAX VELOCITY BASED ON CITY OF ONTARIO MDP PEAK Q
$Q_{INTERIM}$: INTERIM PEAK FLOW BASED ON CURRENT LAND USE COVER
$V_{INTERIM}$: MAX VELOCITY BASED ON INTERIM PEAK FLOW RATE

NOTE 2: THE PEAK FLOW RATE FOR LINE "I" BASED ON THE CITY OF ONTARIO MDP IS Q_{ULT-O}=2,234.5 CFS. THE PEAK FLOW RATE FOR LINE "I" BASED ON THE CITY OF CHINO MDP IS Q_{ULT-C}=2,196.2 CFS. THE HGL SHOWN ON THE PLANS PERTAIN TO THE PEAK FLOW RATES PROVIDED BY THE CITY OF ONTARIO AND CITY OF CHINO.
NOTE 3: $Q_{INTERIM}$ IS BASED ON PEAK FLOW RATE USING CURRENT LAND COVER USING AN AERIAL IMAGE DATED 8/2021. THE CITY OF ONTARIO $Q_{INTERIM}$=900.1 CFS. THE CITY OF CHINO $Q_{INTERIM}$=1,142.7. THE $HGL_{INTERIM}$ SHOWN ON THE PLANS IS BASED ON THE CITY OF CHINO $Q_{INTERIM}$ SINCE THIS RESULT IS A GREATER PEAK FLOW.



* PROPOSED RIP RAP SHALL BE NO. 2 BACKING ROCK WITH FOLLOWING GRADATION
75 LB – 0 TO 5% PASSING
25 LB – 25 TO 75% PASSING
5 LB – 90 TO 100% PASSING





DETAIL 'A'
SEE PLAN VIEW HEREON

CONSTRUCTION NOTES

(7) CONSTRUCT PRECAST DBL 10'x10' RCB PER CALTRANS STD D83A & D83B, ALTERNATIVE TO CONSTRUCT CAST–IN–PLACE 10'X10'– WITH SLOPED INVERT RCB PER CALTRANS STD. D81 & D82. BEDDING & BACKFILL PER CALTRANS STD. A62G, DETAILS ON SHEETS 13–18 TRENCHING PER DEP. OF TRANSPORTATION STD TR–0153, DETAIL SHEET 20

(8) CONSTRUCT PRECAST 9.5'x9.5' RCB PER CALTRANS STD D83A & D83B, ALTERNATIVE TO CONSTRUCT CAST–IN–PLACE 9.5'X9.5' INCLUDE V INVERT RCB PER CALTRANS STD. D80. BEDDING & BACKFILL PER CALTRANS STD. A62G, DETAILS ON SHEETS 14, 15, 17 AND 19 TRENCHING PER DEP. OF TRANSPORTATION STD TR–0153, DETAIL SHEET 20

(10) CONSTRUCT TRANSITION STRUCTURE SINGLE RCB TO DOUBLE RCB PER SPPWC STD. 343–2, DETAIL ON SHEET 12

(11) CONSTRUCT 36" STORM DRAIN MANHOLE SHAFT WITHOUT REDUCER PER SPPWC STD. 326–2, DETAIL ON SHEET 11

(14) CONSTRUCT BRICK & MORTAR BULKHEAD PER DETAIL 14 ON SHEET 11

(15) CONSTRUCT RCB WINDOW PER SPPWC STD 382–2, DETAIL ON SHEET 21

(16) CONSTRUCT RCB STAND PIPE OUTLET RISER PER DETAIL16 ON SHEET 11

(23) CONSTRUCT JUNCTION STRUCTURE PIPE TO RCB PER SPPWC STD. 333–2, DETAIL ON SHEET 13

(24) CONSTRUCT RIP–RAP PER SAN DIEGO REGIONAL STD. DWG. D–40 DETAIL ON SHEET 12

(26) CONSTRUCT MANHOLE SHAFT SAFETY LEDGE PER SPPWC 330–2, DETAIL ON SHEET 19

(33) INSTALL SURVEY MONITORING POINTS AND SETTLEMENT ROD PER CALTRANS TR–0151 AND TR–0152 ON SHEET 18

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
C3	008°43'08.0"	11.41'	75.00'	5.72
C5	033°39'48.2"	44.07'	75.00'	22.69
C6	020°49'26.7"	16.36'	45.00'	8.27
C7	047°22'56.9"	62.02'	75.00'	32.91
L20	N0°23'51"W	492.37'		
L34	N21°15'08"W	16.88'		

LEGEND
STORM DRAIN FLOW DIRECTION

NOTE:
NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

40' 0' 20' 40' 80'
SCALE: 1" = 40'

CALTRANS # 08-22-6-UT-0007

Know what's below. Call 811 before you dig.

SEAL
REGISTERED PROFESSIONAL ENGINEER — JOHN KEE MOHRET — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA
Lisa A Kelly 6/22/22

CITY OF ONTARIO
RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/20/22
ACCEPTED BY: KUOI DO, P.E., CITY ENGINEER — DATE 7/25/22

PAVEMENT LEGEND
PROPOSED AC PAVEMENT PER SEP. PLAN
PROPOSED PCC PAVEMENT PER SEP. PLAN
EXISTING AC PAVEMENT TO REMAIN

PREPARED BY	REVISIONS	MADE BY	MADE DATE	RECOMMENDED BY	RECOMMENDED DATE
FIRM: WESTLAND GROUP, INC.					
ADDRESS: 4150 CONCOURS, ONTARIO, CA 91764					
TELEPHONE: (909) 989-9789 FAX: (909) 989-9660					
SIGNATURE RCE 85559 DATE					

BENCH MARK DATA
BENCH MARK No. GG–18–1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG–18–1." SET ON TOP OF CURB, APPROX 5' +/– SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REFERENCE DRAWINGS

REVIEWED BY STAFF	BY	DATE	CITY ENGINEER'S STAFF	BY	DATE
WATER:			DRAWN:		
SEWER:			DESIGNED:		
FIRE:			CHECKED:		
PLANNING:			RECOMMENDED:		
TRAFFIC:					
ENVIRONMENTAL:					

RECOMMENDED BY:
CITY ENGINEER
DATE: 8/8/22

CITY OF CHINO ENGINEERING DIVISION

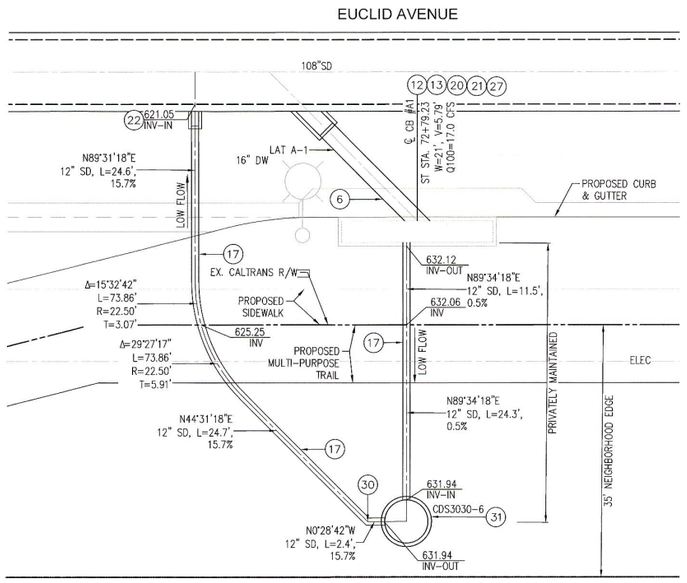
STORM DRAIN IMPROVEMENT PLAN & PROFILE

EUCLID AVENUE
FROM 590' SOUTH OF MERRILL AVE TO MERRILL AVE

PROJECT NO. PM-20016
SHEET 9 OF 21
DRAWING NO. AA 5949.3D D14493

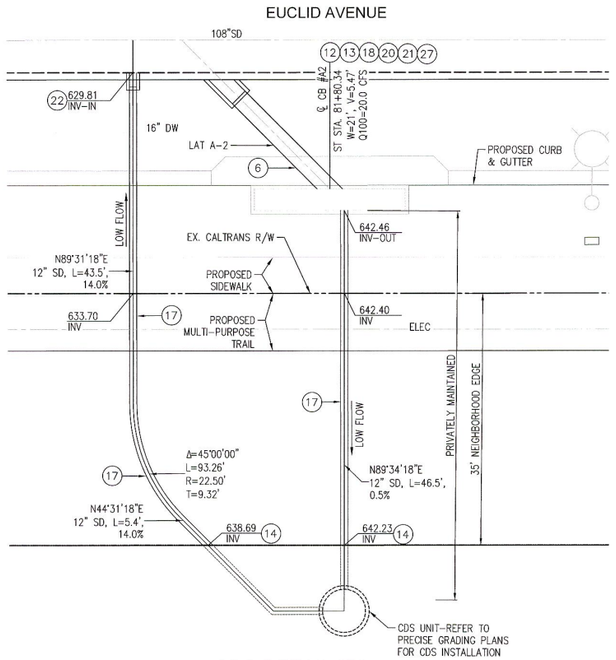
06/16/2022

Drawing Name: P:\Dec_2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\06_09_2020-015_SD-PP.dwg
Last Opened: Jun 16, 2022 - 3:11pm by: Brent.King



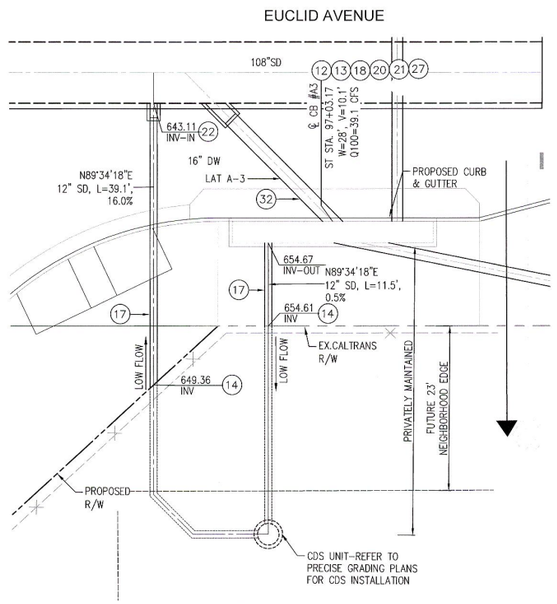
CDS DETAIL "A"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'
SEE SHEET 3



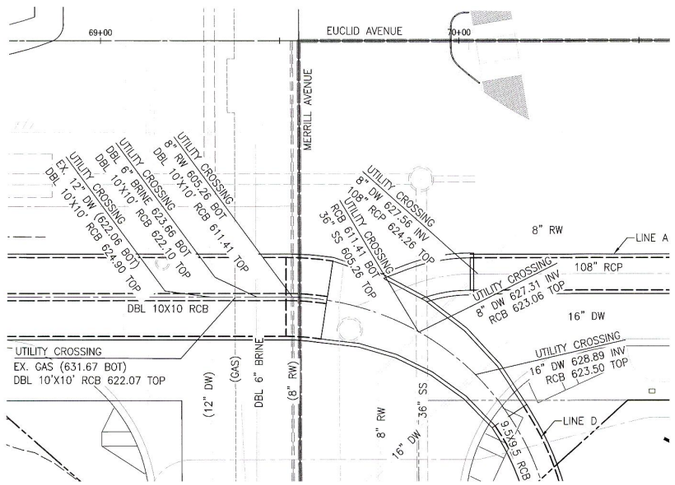
CDS DETAIL "B"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'
SEE SHEET 4



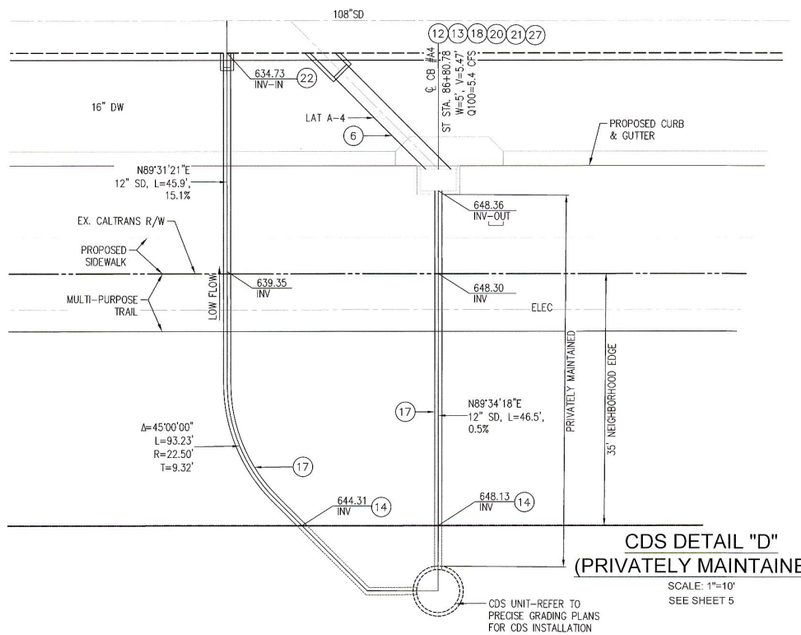
CDS DETAIL "C"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'
SEE SHEET 5



EUCLID AND MERRILL INTERSECTION
UTILITY CROSSING DETAIL

SCALE: 1"=20'
SEE SHEET 9



CDS DETAIL "D"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'
SEE SHEET 5

CONSTRUCTION NOTES

6	CONSTRUCT 30" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
12	CONSTRUCT CATCH BASIN NO. 2 PER CITY OF ONTARIO STD. DWG. NO. 3003 & 3015, "W" AND "V" PER PLAN
13	CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. NO. 3005, REFER TO PERMIT PM 20016 STREET IMPROVEMENT PLANS FOR DETAILS.
14	CONSTRUCT BRICK & MORTAR BULKHEAD PER DETAIL 14 ON SHEET 11
17	CONSTRUCT 12" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL ON SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20
18	INSTALL TEMPORARY CONCRETE BOTTOM TO CATCH BASIN, PER DETAIL 18 ON SHEET 11
20	CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11
21	INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO RIVER" OR EQUIVALENT
22	CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 331-3, DETAIL ON SHEET 15
20	CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE, PER DETAIL 20 ON SHEET 11
27	CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2, DETAIL ON SHEET 12
30	CONSTRUCT 12" RCP CONCRETE COLLAR PER SPPWC STD. 380-4, DETAIL ON SHEET 21
31	CONSTRUCT CDS UNIT, SIZE PER PLAN PER DETAIL 31 ON SHEET 21
32	CONSTRUCT 24" RCP. BEDDING & BACKFILL PER CALTRANS STD. A62D, D-LOAD PER PLAN, DETAIL SHEET 16, TRENCHING PER DEP. OF TRANSPORTATION STD TR-0153, DETAIL ON SHEET 20

NOTE:

CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ONTARIO PROPERTY OWNERS PER WQMP MALIGNANCE. AGREEMENT.
WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT, AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED.

811 Know what's below. Call 811 before you dig.

CALTRANS # 08-22-6-UT-0007

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRIAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/19/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/19/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1," SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA RODE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

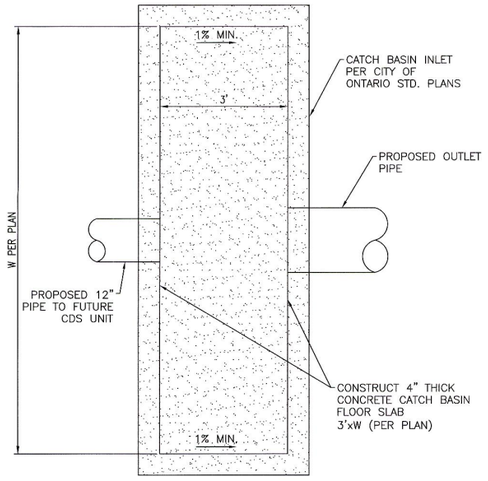
STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
CDS & UTILITY CROSSING DETAILS

PM-20016

SHEET 10 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

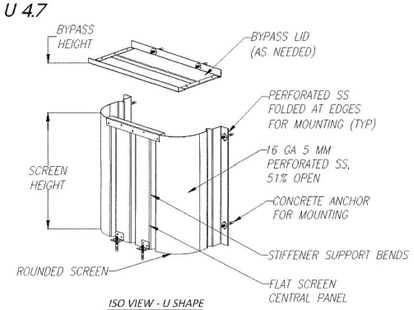
DKH4H 06/16/2022

Drawing Name: P:\Proj-2020\2020-015 RDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\10_2020-015_SD-CB DET.dwg
Last Updated: Jun 16, 2022 - 10:22am by: BrentKing



CATCH BASIN - PLAN VIEW

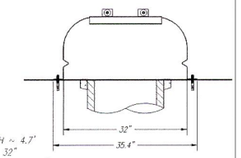
CONNECTOR PIPE SCREEN (CPS) U 4.7



ISO VIEW - U SHAPE

CPS U WITH 4.7 FT SCREEN LENGTH	
CPS HEIGHT (IN)	SCREEN FLOW (CFS)
12	6.67
18	12.26
24	18.88
30	26.40
36	34.71

NOTE: BYPASS FLOW RATES VARY WITH VAULT DEPTH AND BYPASS HEIGHT. CONTACT BIO CLEAN FOR ADDITIONAL INFORMATION.



TOTAL SCREEN LENGTH ~ 4.7'
SPAN LENGTH = 32"
COMPATIBLE WITH PIPES UP TO Ø24"

TOP SECTION VIEW - U SHAPE

GENERAL NOTES

1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE.
3. THIS CPS UNIT IS DESIGNED FOR TREATMENT FLOWS THROUGH THE SCREEN. FLOWS GREATER THAN THE TREATMENT FLOW RATE WILL BYPASS OVER THE SCREEN.
4. A BYPASS LID IS REQUIRED WHEN THE OUTLET PIPE IS DIRECTLY BELOW THE CURB OPENING.
5. CPS IS COMPRISED OF 304 STAINLESS STEEL. THICKNESS IS 16 GAUGE. SCREEN PERFORATIONS ARE 5 MILLIMETERS IN DIAMETER. THE SCREEN AREA IS 51% OPEN SPACE.

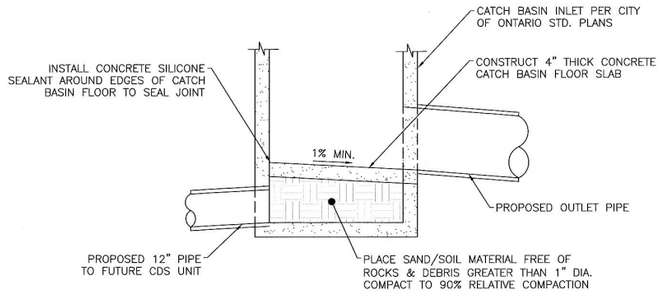
INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO INSTALL THE CPS UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. POSITION THE CPS SO IT IS EVENLY SPACED AROUND THE CONNECTOR PIPE, ENSURING A MIN. OF 4" SPACING AWAY FROM ANY CORNERS. SCREEN BOTTOM SHALL BE FLUSH WITH THE CATCH BASIN FLOOR, OR WITH GAPS NO GREATER THAN 5 MM.
3. IF A BYPASS LID IS REQUIRED, VERIFY THE BYPASS HEIGHT NEEDED AND MARK THAT LOCATION ON THE WALL DIRECTLY ABOVE THE BASE UPRIGHTS. LIFT THE LID IN PLACE AND MARK THE HOLE LOCATIONS FOR THE LID MOUNTING BRACKETS. SECURE THE LID WITH STAINLESS STEEL NUTS.

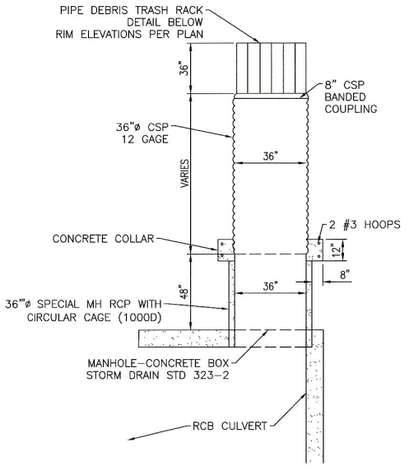
WARRANTY: 3 YEAR MANUFACTURER'S		MEETS FULL CAPTURE REQUIREMENTS	
BIO CLEAN ENVIRONMENTAL SERVICES, INC. 398 VIA EL CENTRO, OCEANSIDE CA 92058 PHONE: 760-433-7640		REVISIONS:	DATE:
DATE: 1/17/2020	SCALE: NTS	REVISIONS:	DATE:
DRAFTER: G.M.S.	UNITS = INCHES	REVISIONS:	DATE:

Bio Clean
A Forterra Company

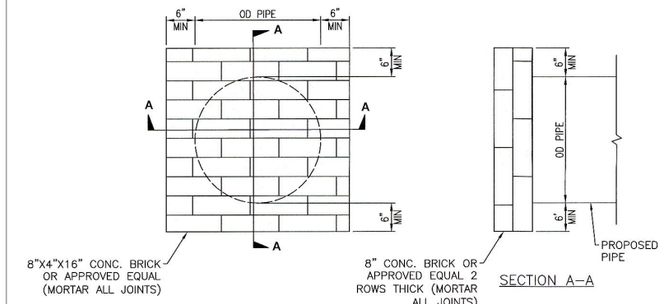
18 CATCH BASIN - TEMPORARY FLOOR CONSTRUCTION DETAIL
N.T.S.



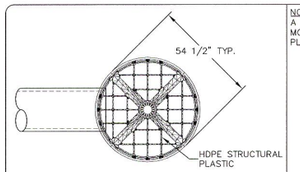
CATCH BASIN - PROFILE VIEW



16 RCB STAND PIPE OUTLET RISER
N.T.S.



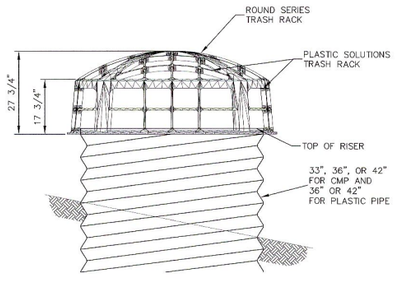
14 BRICK AND MORTAR BULKHEAD DETAIL



NOTE:
A 3/4" ROUND GALV PIPE MOUNTING KIT IS PROVIDED BY PLASTIC SOLUTIONS, INC.



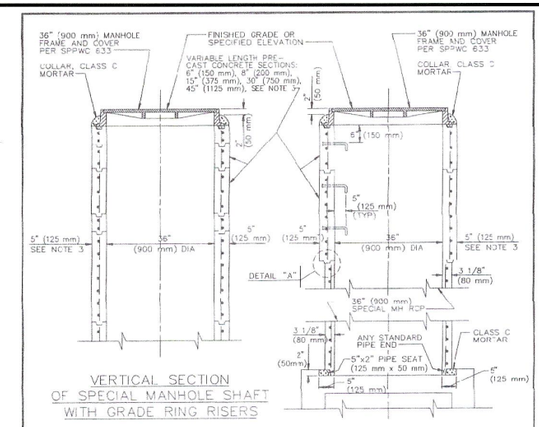
TRASH RACK ASSEMBLY



ELEV. A-A

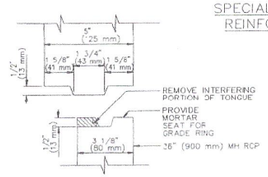
NOTE: **MOUNTING KIT INCLUDED**

PART NO	48" ROUND SERIES TRASH RACK	PLASTIC SOLUTIONS INC.	240 McGhee Road P.O. Box 4386 Winchester, VA 22604 540-722-4694 www.plastic-solution.com
RSP-48	WITH METAL OR PLASTIC RISER		



VERTICAL SECTION OF SPECIAL MANHOLE SHAFT WITH GRADE RING RISERS

VERTICAL SECTION OF SPECIAL MANHOLE SHAFT WITH REINFORCED CONCRETE PIPE



DETAIL "A"

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1992 REV. 1998, 2009	MANHOLE SHAFT 36"(900 mm) WITHOUT REDUCER USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN 326-2 SHEET 1 OF 2

NOTES

1. UNLESS OTHERWISE INDICATED THIS STRUCTURE SHALL CONFORM TO ASTM C 478 (ASTM C 478M). ALL STEEL SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES AND ALL CONCRETE SHALL BE PER SSPWC.
2. WHERE A 36" (900 mm) MANHOLE IS CONSTRUCTED WITH 36" (900 mm) MANHOLE RCP, THE RCP SECTION SHALL CONTAIN A CIRCULAR CAGE AND HAVE A LOAD CARRYING CAPACITY OF AT LEAST 1000D (50D). SPECIAL MANHOLE SHAFT SHALL BE PER THIS STANDARD AND 36" (900 mm) MANHOLE FRAME AND COVER SHALL BE PER SPPWC 633.
3. THE MANHOLE SHAFT AND RINGS MAY BE PLAIN CONCRETE. FOR PLAIN CONCRETE SECTIONS THE MINIMUM THICKNESS SHALL BE 6" (150 mm).
4. ALL JOINTS SHALL BE SEALED BY FILLING THE ANNULAR SPACES WITH CLASS C MORTAR. THE INSIDE OF THE SHAFT AT EACH JOINT SHALL BE WIPED CLEAN OF EXCESS MORTAR.
5. PROTECTIVE PLASTIC LINER (T LOCK) OR ENGINEER-APPROVED COATINGS WHERE REQUIRED BY THE PLANS SHALL BE IN ACCORDANCE WITH SSPWC AND THE MANUFACTURER'S DIRECTIONS.
6. STEPS SHALL CONFORM TO SPPWC 635 OR 636. THE TOP STEP SHALL BE PLACED 6" (150 mm) BENEATH THE MANHOLE COVER FRAME. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC.
7. THE PRECAST CONCRETE MANHOLE STRUCTURES WILL BE INSPECTED BY THE ENGINEER WHO WILL INDICATE ACCEPTANCE FOR SHIPMENT TO THE JOB BY MARKING THE STRUCTURES WITH THE AGENCY'S STAMP.
8. THE VERTICAL SIDES OF THE MANHOLE SHAFT SHALL BE LOCATED ABOVE AND IN LINE WITH THE SIDE OF THE STORM DRAIN CONDUIT.
9. CONSTRUCT MANHOLE SAFETY LEDGE PER SPPWC 330 IF DEPTH OF MANHOLE TO INVERT IS GREATER THAN 20 (6 m) AND MANHOLE SHAFT IS GREATER THAN 10' (3 m).
10. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:

    633 36" (900 mm) MANHOLE FRAME AND COVER
    635 STEEL STEP
    636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
	MANHOLE SHAFT 36"(900 mm) WITHOUT REDUCER	STANDARD PLAN 326-2 SHEET 2 OF 2

NOTE:
WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED

Know what's below. Call 811 before you dig.

CALTRANS # 08-22-6-UT-0007

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN EIRLE, P.E., ASSISTANT CITY ENGINEER — DATE 7/29/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/29/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA REE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

STORM DRAIN IMPROVEMENT PLAN

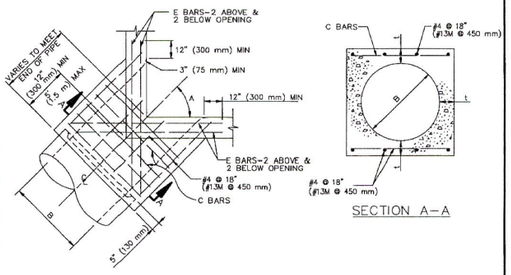
EUCLID AVENUE
DETAILS

PM-20016

SHEET 11 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 594935

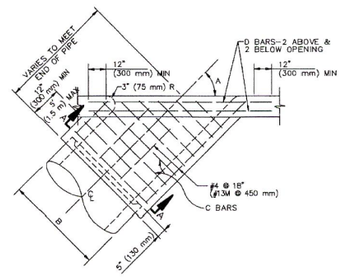
D14995 06/16/2022

Drawing Name: P:\Projects\2020\2020-015 RCFA Private II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11_21_2020-015_SD_DET.dwg
Last Opened: Jun 16, 2022 - 10:27am by: BenLong



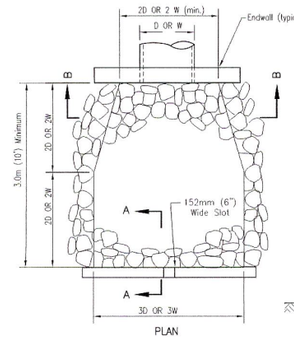
SECTION A–A

PLAN
CORNER CONNECTION



PLAN
SIDE CONNECTION

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC., GREENBOOK COMMITTEE 1994 REV. 1996, 2006	MONOLITHIC CATCH BASIN CONNECTION	STANDARD PLAN 308–2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

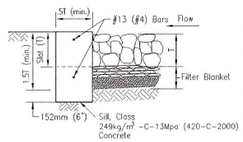


PLAN

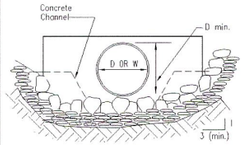
Design Velocity m/sec (ft/sec)*	Rock Classification	T (min)
1.8–3 (6–10)	No. 2 Backing	320mm (1.1ft)
3–3.7 (10–12)	220 kg (1/4 ton)	823mm (2.7ft)
3.7–4.3 (12–14)	450 kg (1/2 ton)	1.1m (3.5ft)
4.3–4.9 (14–16)	900 kg (1 ton)	1.3m (4.4ft)
4.9–5.5 (16–18)	1.8 tonne (2 ton)	1.6m (5.4ft)

*over 5.5 mps (18 fps) requires special design

D = Pipe Diameter
W = Bottom Width of Channel



SECTION A–A



SECTION B–B

NOTES

1. Plans shall specify:
   A) Rock Class and thickness (T).
   B) Filter material, number of layers and thickness.
2. Rip rap shall be either quarry stone or broken concrete (if shown on the plans.) Cobbles are not acceptable.
3. Rip rap shall be placed over filter blanket which may be either granular material or filter fabric (woven filter slit film fabric shall not be used).
4. See Regional Supplement Amendments for selection of filter blanket.
5. Rip rap energy dissipators shall be designated as either Type 1 or Type 2. Type 1 shall be with concrete sill; Type 2 shall be without sill.

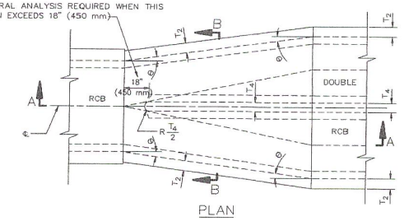
Revision	By	Approved	Date
ORIGINAL		Kercheval	12/75
Add Metric		T. Stanton	03/03
Add Rip Rap Table		S. Brady	04/06

SAN DIEGO REGIONAL STANDARD DRAWING

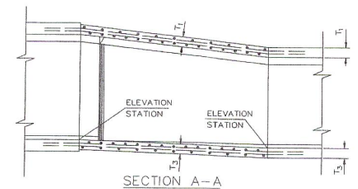
RIP RAP
ENERGY DISSIPATOR

RECOMMENDED BY THE SAN DIEGO REGIONAL STANDARDS COMMITTEE
Gregerson R.C.E. 19246 Date 04/27/2006
DRAWING NUMBER D-40

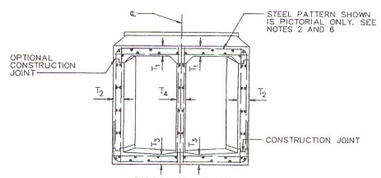
STRUCTURAL ANALYSIS REQUIRED WHEN THIS DIMENSION EXCEEDS 18" (450 mm)



PLAN



SECTION A–A



SECTION B–B

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1992 REV. 1995, 2000	TRANSITION STRUCTURE SINGLE RCB TO DOUBLE RCB	STANDARD PLAN 343–2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES

1. THE HORIZONTAL ANGLE OF DIVERGENCE OR CONVERGENCE, θ, SHALL NOT EXCEED 5° 45'.
2. REINFORCING STEEL BAR SIZE, SPACING AND OUTSIDE COVER SHALL BE THAT OF DOUBLE RCB SECTION. FOR CURVED TRANSITIONS, SPACE BARS ON CENTER LINE AND PLACE TRANSVERSE STEEL RADIALLY. THE BAR LENGTHS AND DIMENSIONS SHALL VARY UNIFORMLY THROUGHOUT TRANSITION. LONGITUDINAL BARS SHALL BE CONTINUED THROUGH THE JOINTS WITH THE TRANSITION STRUCTURE.
3. THE CONCRETE THICKNESS SHALL BE THAT OF THE DOUBLE RCB SECTION.
4. PLAN AS SHOWN IS FOR DOUBLE RCB SECTION DOWNSTREAM. WHEN DOUBLE RCB SECTION IS UPSTREAM TAPER THE LAST 24" (600 mm) OF CENTER WALL TO END IN 1 1/2" (40 mm) RADIUS.
5. f'_c = 4000 PSI (28 MPa) AT 28 DAYS AND THE CONCRETE SHALL BE THE SAME MIX AS THE ADJACENT RCB.
6. ALL STEEL, EXCEPT LONGITUDINAL STEEL SHALL BE GRADE 60 (400) BILLET STEEL CONFORMING TO ASTM A 615 (A 615 M) AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
7. TRANSVERSE JOINT KEYWAYS, AS DETAILED FOR LONGITUDINAL JOINT KEYWAYS AT BASE OF OUTER WALLS ON THE PLANS, SHALL BE PLACED IN BOTH SLABS AND WALLS AT THE END OF EACH POUR.
8. THE TRANSITION STRUCTURE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STRUCTURAL NOTES APPLYING TO RCB STRUCTURES SHOWN ON THE PLANS.

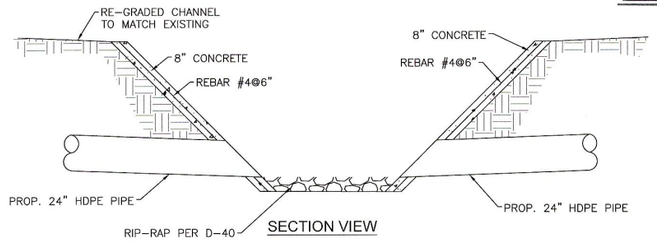
STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
TRANSITION STRUCTURE SINGLE RCB TO DOUBLE RCB	343–2
	SHEET 2 OF 2

STRUCTURAL DATA							
B	t	C BARS	D&E BARS	B	t	C BARS	D&E BARS
12" (300 mm)	4" (115 mm)	#4 @ 5" (#13M @ 150 mm)	#5 (#16M)	42" (1050 mm)	7 1/2" (190 mm)	#5 @ 5" (#16M @ 150 mm)	#6 (#19M)
15" (375 mm)	4–1/4" (115 mm)			45" (1125 mm)	7 3/4" (190 mm)		
18" (450 mm)	4–1/2" (115 mm)			48" (1200 mm)	8" (215 mm)		
21" (525 mm)	5" (140 mm)			51" (1275 mm)	8 1/2" (215 mm)		
24" (600 mm)	5 1/4" (140 mm)			54" (1350 mm)	9" (240 mm)		
27" (675 mm)	5 1/2" (140 mm)			57" (1425 mm)	9 1/4" (240 mm)		
30" (750 mm)	6" (165 mm)			60" (1500 mm)	9 1/2" (240 mm)		
33" (825 mm)	6 1/4" (165 mm)			63" (1575 mm)	10" (250 mm)		
36" (900 mm)	6 1/2" (165 mm)			66" (1650 mm)	10 1/4" (260 mm)		
39" (975 mm)	7" (180 mm)			69" (1725 mm)	10 3/4" (280 mm)		
				72" (1800 mm)	11" (280 mm)		
FOR B GREATER THAN 72" (1800 mm) SEE PLANS							

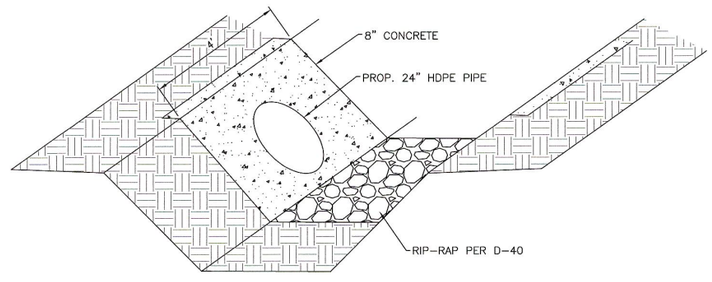
NOTES

1. REINFORCING STEEL SHALL BE 1–1/2" (40 mm) CLEAR FROM FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
2. REINFORCING STEEL FOR INSIDE FACE OF CATCH BASIN SHALL BE CUT AT CENTER OF OPENING AND BENT INTO WALLS OF MONOLITHIC CATCH BASIN CONNECTION. REINFORCING STEEL FOR OUTSIDE FACE OF CATCH BASIN SHALL BE CUT 2" (50 mm) CLEAR OF OPENING.
3. CONNECTION SHALL BE PLACED MONOLITHIC WITH CATCH BASIN. THE ROUNDED EDGE OF OUTLET SHALL BE CONSTRUCTED BY PLACING CONCRETE WITH THE SAME CLASS OF CONCRETE AS THE CATCH BASIN AGAINST A CURVED FORM WITH A RADIUS OF 3" (75 mm).
4. CONNECTIONS SHALL BE CONSTRUCTED WHEN:
   (A) PIPES INLET OR OUTLET THROUGH CORNER OF CATCH BASIN
   (B) ANGLE A FOR PIPES THROUGH 30" (750 mm) IN DIAMETER IS LESS THAN 70° OR GREATER THAN 110°.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
MONOLITHIC CATCH BASIN CONNECTION	308–2
	SHEET 2 OF 2



SECTION VIEW



ISOMETRIC VIEW

(25) CHANNEL CONCRETE END WALL DETAIL
N.T.S.

CITY OF CHINO

RECOMMENDED BY: _____ CITY ENGINEER 8/8/22 DATE

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: _____ BRIAN LIRLEY, P.E., ASSISTANT CITY ENGINEER 7/28/22 DATE
ACCEPTED BY: _____ KHOI DO, P.E., CITY ENGINEER 7/29/22 DATE

BENCH MARK No. GG–18–1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG–18–1," SET ON TOP OF CURB, APPROX 5' +/– SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER SIARA ROSE MACKINNEY No.85559 Exp. 9/30/2022 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989–9789 FAX: (909) 989–9660

SIGNATURE: SIARA R. MACKINNEY, P.E. 85559 R.C.E. NO. 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

CALTRANS # 08-22-6-UT-0007

PM-20016

SHEET 12 OF 21
CONTRACT _____
ACCOUNT _____
DWG. NO. AA 5949 SD

D14R16 06/08/2022

Drawing Name: P:\Projects\2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11_21_2020-015_SD_DET.dwg
Last Updated: Jun 08, 2022 - 4:45pm by: Brent King

DESIGN NOTES:

Design Specifications:
AASHTO LRFD Bridge Design Specifications, 6th Edition with California Amendments.

Loading:
Live load: (AASHTO LRFD 3.6.1.2)
HL-93 consists of design truck or design tandem and design lane load.

Impact Factor: (Apply to roof slab only)
$IM = 33(1.0\text{-}0.125D_E) \geq 0\%$ (AASHTO LRFD 3.6.2.2)
D_E = minimum depth of earth cover

Earth load:
Earth pressure for two conditions:
140 pcf vertical, 42 pcf horizontal
140 pcf vertical, 140 pcf horizontal

Load Factors:
AASHTO LRFD Table 3.4.1.1 & Table 3.4.1.2

Unit stresses:
f'_c = 3600 psi
f_y = 60,000 psi

Distribution "d" bars:
Up to and including 10'-0" cover
Express as a percentage of main positive reinforcement required: $\frac{100}{\sqrt{S}}$, Max 50%,
Over 10'-0" cover,
4 @ 12 maximum

Shear:
$V_c = (2.14\sqrt{f'_c}+4600\frac{A_s}{bd}\frac{Vud_e}{Mu})\,b_v d_e \leq 4.0\sqrt{f'_c}\,b_v d_e$ (Pounds)
V_c shall not be less than $3.00\sqrt{f'_c}\,b_v d_e$ for frame members and $2.5\sqrt{f'_c}\,b_v d_e$ for simply supported members.

Exclusion:
Compressive reinforcement and negative moment reduction (for continuity) do not apply.
Axial loading on members has not been considered.

CONSTRUCTION NOTES:

Construction loads:
Strutting required as shown on Standard Plan D88.
Strutting may be required on culvert extensions when existing parapet is removed.

Expansion joints:
Invert:
No expansion joints shall be permitted.

Roof and Walls:
When cover is less than span length-
Place ½" premolded expansion joint filler at 30'-0" ± centers outside the paved roadway lanes and place Bridge Detail 3-2, Standard Plan B0-3, at 30'-0" centers under paved roadway lanes.
When cover is more than span length-
Place ½" premolded expansion joint filler at 30'-0" ± centers and additional ½" premolded expansion joints at locations of change in foundation character, as directed by the Engineer.

Construction joints:
Temporary joints may be permitted if normal (or radial) to ℄ of RCB. Otherwise, the contractor is to submit a proposal for consideration.

Cutoff walls:
4'-0" cutoff walls are to be provided at inlet and/or outlet unless adjacent channel is lined and unless otherwise shown. These walls are to be extended if scour conditions warrant.

Earthwork:
See Standard Plan A62E.

Backfill:
See Standard Specifications, except that the difference in level of backfill (against outside walls) shall not exceed 2'-0".

GENERAL NOTES:

Designation:
Standard single or multiple box culverts are shown on plans as span times height with maximum cover over roof thus: 8' x 5' RCB with 10' or double 10' x 5' RCB with 20', followed by alternatives.

Alternatives:
Single cell: Invert will be sloped unless "trapezoidal invert", "flat invert" or "V invert" is included in designation.
Multiple cell: Invert will be vee unless "flat invert" is specified. Ends of culvert will be rounded unless "square ends" are designated. Parapets will be as shown unless designated in plans. Such designations may be different for inlet and outlet ends.

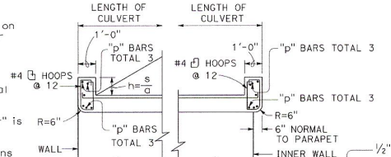
Quantities:
Quantities do not include the following:
- Concrete for parapet, paving notches and cut-off wall.
- Reinforcement for 2% splices, parapets, paving notches, cut-off wall and additional required bars for exposed top slab (D-80, Note 9).

Reinforcement placement:
Main reinforcement is to be placed transversely or, for curved culverts, radially. When radial, reinforcing spacing of the "a", "f" and "g" bars is measured along the centerline. Stagger splices not shown. Hooks may be rotated or tilted, as necessary, for clearance.

Special reinforcement coverage:
Box standard plans are not to be used for culverts in a corrosive environment or where there is a severe abrasive flow condition or in freeze-thaw locations.

Special designs
Required for culverts with conditions, loads, design bearing pressures or sizes greater than those given on this plan or Standard Plans D80 & D81. Also required for multiple cell culverts with unequal spans. For culverts with railroad loading, see the current AREMA design specification.

3 or more cells:
For culverts with more than two cells, use dimensions and reinforcement for the standard "double box culvert" and adjust quantities accordingly.



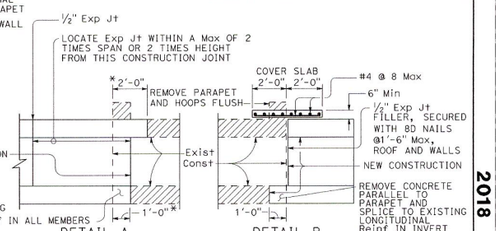
SINGLE SPAN MULTIPLE SPAN

PARAPET DETAIL

s = Clear span (ft)
a = 12 cosine skew angle
h = Height, 1'-0" Min

PARAPET "p" BARS			
SKEW ANGLE / SPAN	0° TO 15°	16° TO 30°	31° TO 45°
4'	#4	#4	#4
6'	#4	#4	#5
8'	#4	#5	#6
10'	#5	#6	#7
12'	#6	#7	#8
14'	#7	#8	#9

PARAPET REINFORCEMENT



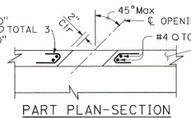
DETAIL A

DETAIL B

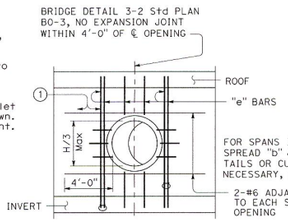
20° maximum skew as shown. If existing longitudinal and transverse reinforcing bars in top slab are lap spliced with new longitudinal and transverse reinforcing bars, the 20° skew may be exceeded. Lap splicing may require removal of top slab in excess of 2'-0" shown.

Single cell only, no skew allowed, 1'-0" minimum cover.

* Measured perpendicular to parapet



PART PLAN-SECTION

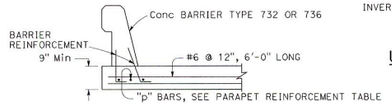


LONGITUDINAL SECTION

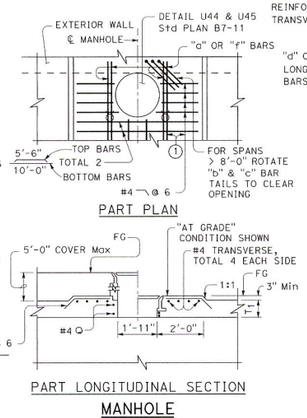
UTILITY OPENING-WALL

H=Height of box

① Adjacent to each side of the opening, place additional bars equivalent to half the interrupted main reinforcement.



BARRIER SECTION (30'-0" MINIMUM)

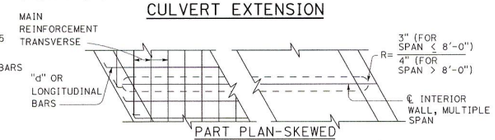


PART PLAN

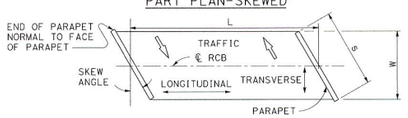
PART LONGITUDINAL SECTION

MANHOLE

CULVERT EXTENSION



PART PLAN-SKEWED



RCB TERMINOLOGY

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE REINFORCED CONCRETE BOX CULVERT MISCELLANEOUS DETAILS

NO SCALE

D82

1-29-18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

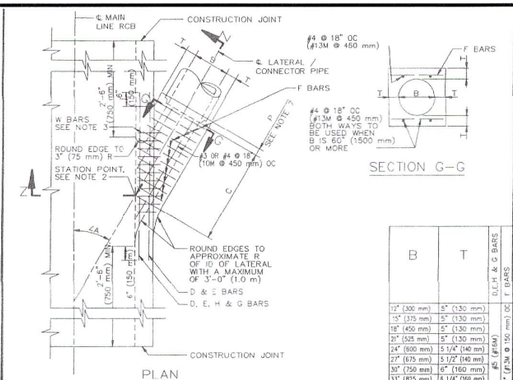
REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

Carl W. Dunn
No. C59976
Exp. 6-30-18
CIVIL
STATE OF CALIFORNIA

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

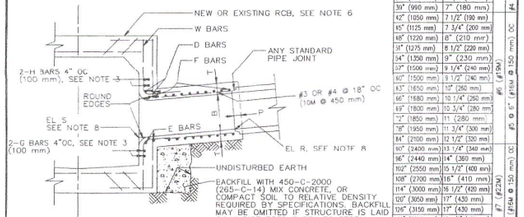
2018 STANDARD PLAN D82



PLAN

SECTION G-G

B	T	D,E,H & G BARS	F BARS
12" (300 mm)	5" (130 mm)		
15" (375 mm)	5" (130 mm)		
18" (450 mm)	5" (130 mm)		
21" (525 mm)	5" (130 mm)		
24" (600 mm)	5 1/4" (140 mm)		
27" (675 mm)	5 1/2" (140 mm)		
30" (750 mm)	6" (160 mm)		
33" (825 mm)	6 1/4" (159 mm)		
36" (975 mm)	6 1/2" (170 mm)		
39" (990 mm)	7" (180 mm)		
42" (1050 mm)	7 1/2" (190 mm)		
45" (1125 mm)	7 3/4" (200 mm)		
48" (1220 mm)	8" (210 mm)		
51" (1275 mm)	8 1/2" (220 mm)		
54" (1350 mm)	9" (230 mm)		
57" (1500 mm)	9 1/4" (240 mm)		
60" (1550 mm)	9 1/2" (240 mm)		
63" (1650 mm)	10" (260 mm)		
66" (1680 mm)	10 1/4" (260 mm)		
69" (1800 mm)	10 3/4" (280 mm)		
72" (1850 mm)	11" (280 mm)		
78" (1950 mm)	11 3/4" (300 mm)		
84" (2100 mm)	12 1/2" (320 mm)		
90" (2400 mm)	13 1/4" (340 mm)		
96" (2440 mm)	14" (360 mm)		
102" (2550 mm)	15 1/2" (400 mm)		
108" (2700 mm)	16" (410 mm)		
114" (3000 mm)	16 1/2" (420 mm)		
120" (3050 mm)	17" (430 mm)		
126" (3150 mm)	17" (430 mm)		
132" (3300 mm)	17 1/2" (450 mm)		
138" (3450 mm)	17 1/2" (450 mm)		
144" (3600 mm)	18" (460 mm)		



SECTION Z Z

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1934 REV. 1996, 2009	JUNCTION STRUCTURE – PIPE TO RCB	STANDARD PLAN 333-2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES

1. VALUES FOR A, B AND C SHALL BE SHOWN ON THE PLANS. *ELEVATION R AND ELEVATION S SHALL BE SHOWN WHEN REQUIRED PER* NOTE 8.
2. STATIONS SPECIFIED ON THE PLANS APPLY AT THE INTERSECTION OF CENTERLINES OF MAIN LINE AND LATERALS, EXCEPT THAT STATIONS FOR CATCH BASIN CONNECTOR PIPES APPLY AT NSIDE WALL OF STRUCTURE.
3. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 40, (ASTM A 615M, GRADE 300), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACE UNLESS OTHERWISE SHOWN.
   a. W BARS ARE OF SIZE AND SPACING SPECIFIED FOR WALL STEEL ON PLANS, AND SHALL BE CUT IN CENTER OF OPENING AND BENT INTO TOP AND BOTTOM OF JUNCTION STRUCTURE.
   b. OMIT H BARS WHEN SOFFIT OF SPUR IS 12" (300 mm) OR LESS BELOW SOFFIT OF MAIN LINE, AND OMIT G BARS WHEN INVERT OF SPUR IS 12" (300 mm) OR LESS ABOVE FLOOR OF MAIN LINE.
4. JUNCTION STRUCTURE SHALL BE POURED MONOLITHICALLY WITH MAIN LINE, MANHOLE OR TRANSITION STRUCTURE.
5. FLOOR OF STRUCTURE SHALL BE STEEL-TROWELED TO THE SPRING LINE.
6. WHEN CONNECTING TO EXISTING RCD, BREAKOUT LIMITS AND DETAILS SHALL BE SHOWN ON THE PLANS.
7. EMBEDMENT P, SHALL BE 5" (130 mm) FOR B = 96" (2400 mm) OR LESS 8" (200 mm) FOR B OVER 96" (2400 mm).
8. IF ELEVATION R AND ELEVATION S ARE NOT SHOWN ON THE PLANS *THEN THE INLET OPENING SHALL FALL 6" (150 mm) BELOW* THE SOFFIT OF THE MAIN LINE WITH THE INLET PIPE LAID ON A STRAIGHT GRADE FROM MAIN LINE TO CATCH BASIN OR TO GRADE BREAK IN INLET LINE. ELEVATION S SHALL BE SHOWN ON THE PLANS IF THE INLET OPENING FALLS MORE THAN 6" (150 mm) BELOW THE SOFFIT OF THE MAIN LINE WITH THE INLET PIPE LAID ON A STRAIGHT GRADE AS STATED ABOVE.
   ELEVATION R SHALL BE SHOWN ON THE PLANS ONLY WHEN A STUB IS TO BE PROVIDED FOR A FUTURE CONNECTION.
9. LATERALS OR CONNECTOR PIPES 24" (600 mm) OR LESS IN DIAMETER SHALL BE NO MORE THAN 5' (1.5 m) ABOVE THE INVERT. LATERALS OR CONNECTOR PIPES 27" (675 mm) OR LARGER IN DIAMETER SHALL BE NO MORE THAN 18" (450 mm) ABOVE THE INVERT, WITH THE EXCEPTION THAT CATCH BASIN CONNECTOR PIPES LESS THAN 50' (15 m) IN LENGTH SHALL NOT BE MORE THAN 5' (1.5 m) ABOVE THE INVERT.
10. THE NEED FOR AN EDGE BEAM AND/OR ADDITIONAL REINFORCEMENT SHALL BE INVESTIGATED BY THE ENGINEER FOR ANY ONE OF THE FOLLOWING CONDITIONS:
    a. ANGLE A IS LESS THAN 30°
    b. TOP OF INLET PIPE IS LESS THAN 6" (150 mm) BELOW THE SOFFIT
    c. FLOW LINE OF INLET PIPE IS LESS THAN 7" (180 mm) ABOVE THE THE FLOOR OF THE RCB AT THE INSIDE FACE

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
JUNCTION STRUCTURE – PIPE TO RCB	333-2
	SHEET 2 OF 2

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — 7/18/22 DATE
ACCEPTED BY: KAIDI DO, P.E., CITY ENGINEER — 7/18/22 DATE

CITY OF CHINO

RECOMMENDED BY: CITY ENGINEER — 8/8/22 DATE

BENCH MARK No. CC-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO CC-18-1," SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA REE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

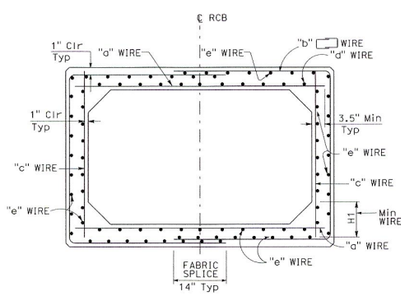
CALTRANS # 08-22-6-UT-0007

PM-20016

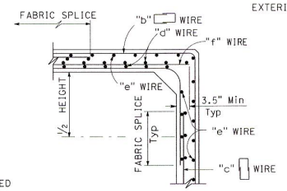
SHEET 13 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

D14497 06/03/2022

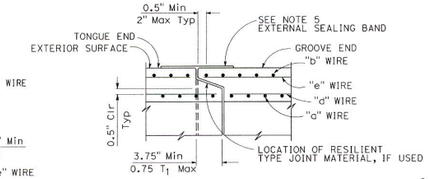
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Last Opened: Jun 03, 2022 - 4:05pm by: Brent.King



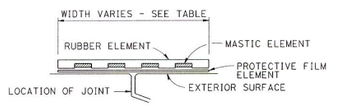
TYPICAL SECTION - SPANS 4'-0" THRU 12'-0"



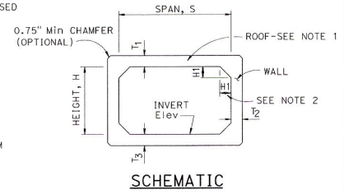
ALTERNATIVE DETAILING OPTION



END JOINT DETAIL



EXTERNAL SEALING BAND SCHEMATIC



SCHEMATIC

TABLE	
SPAN	EXTERNAL SEALING BAND WIDTH
4'-6'	9"
7'-8'	11"
10'-12'	13"

SPAN, S			4′						5′						6′						7′					
HEIGHT, H			2′		3′		4′		2′		3′		4′		5′		3′		4′		5′		6′		7′	
MAXIMUM EARTH COVER			10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′
CONCRETE (INCH)	ROOF	T_1	5.5	5.5	5.5	5.5	5.5	5.5	6"	6"	6"	6"	6"	6"	6"	6"	7"	7"	7"	7"	7"	7"	7"	7"	8"	8"	8"	8"
	SIDE WALL	T_2	5.5	5.5	5.5	5.5	5.5	5.5	6"	6"	6"	6"	6"	6"	6"	6"	7"	7"	7"	7"	7"	7"	7"	7"	8"	8"	8"	8"
	INVERT	T_3	5.5	5.5	5.5	5.5	5.5	5.5	6"	6"	6"	6"	6"	6"	6"	6"	7"	7"	7"	7"	7"	7"	7"	7"	8"	8"	8"	8"
MINIMUM WELDED WIRE FABRIC ($inch^2/ft$)		"a"	.33	.47	.34	.49	.34	.50	.40	.62	.41	.62	.42	.64	.43	.64	.44	.67	.45	.70	.46	.71	.47	.72	.47	.72	.48	.75
		"b"	.23	.28	.23	.25	.21	.23	.26	.36	.24	.36	.24	.33	.24	.30	.28	.44	.27	.40	.27	.37	.27	.38	.33	.52	.31	.48
		"c"	.11	.11	.11	.12	.18	.24	.11	.11	.11	.11	.13	.23	.24	.34	.11	.11	.11	.12	.19	.27	.27	.42	.11	.11	.11	.11
		"d"	.16	.11	.16	.11	.16	.11	.17	.11	.18	.11	.18	.11	.18	.11	.17	.11	.18	.11	.18	.11	.18	.11	.17	.11	.17	.11
		"e"	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
		"f"	.22	.36	.23	.37	.22	.26	.29	.51	.30	.51	.29	.41	.26	.30	.33	.56	.34	.58	.27	.44	.21	.30	.36	.61	.37	.64
* QUANTITY	Conc	CY/LF	.31		.34		.38		.37		.41		.44		.48		.51		.56		.60		.64		.63		.68	
	Reinf	LB/LF	35	41	39	45	45	51	49	58	49	62	54	69	62	78	60	79	64	83	72	93	80	107	72	98	76	102
** SOIL PRESSURE (ksf)			2.3	4.4	2.4	4.5	2.4	4.5	3.1	4.4	3.1	4.5	3.1	4.5	3.2	4.5	2.7	4.5	2.8	4.5	2.8	4.6	2.8	4.6	2.5	4.5

SPAN, S			8′						10′								12′							
HEIGHT, H			4′		5′		6′		7′		8′		5′		6′		7′		8′		9′		10′	
MAXIMUM EARTH COVER			10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′	20′
CONCRETE (INCH)	ROOF	T_1	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
	SIDE WALL	T_2	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
	INVERT	T_3	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	8.5"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"	10"
MINIMUM WELDED WIRE FABRIC ($inch^2/ft$)		"a"	.55	.87	.56	.90	.57	.92	.58	.93	.58	.94	.66	1.07	.67	1.10	.69	1.13	.70	1.14	.70	1.16	.71	1.16
		"b"	.37	.59	.35	.55	.33	.52	.33	.52	.36	.57	.45	.74	.43	.70	.41	.67	.40	.64	.43	.67	.48	.67
		"c"	.11	.11	.11	.11	.20	.31	.31	.42	.38	.62	.11	.11	.11	.11	.22	.31	.36	.42	.40	.62	.54	.86
		"d"	.19	.11	.19	.11	.20	.11	.20	.11	.20	.11	.20	.11	.20	.11	.21	.11	.21	.11	.21	.11	.21	.11
		"e"	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11
		"f"	.44	.76	.45	.79	.37	.61	.27	.52	.20	.31	.55	.96	.56	.99	.47	.81	.34	.73	.31	.53	.16	.30
* QUANTITY	Conc	CY/LF	.78		.83		.88		.94		.99		1.10		1.17		1.23		1.29		1.35		1.41	
	Reinf	LB/LF	93	129	97	133	105	148	117	161	131	189	133	191	138	196	148	212	191	225	176	253	201	282
** SOIL PRESSURE (ksf)			2.5	4.6	2.5	4.6	2.5	4.6	2.5	4.6	2.5	4.6	3.8	4.6	3.8	4.7	3.8	4.7	4.6	4.7	3.9	4.7	3.9	4.8

SPAN, S			12′											
HEIGHT, H			6′		7′		8′		9′		10′		11′	12′
MAXIMUM EARTH COVER			10′	20′	10′	20′	10′	20′	10′	20′	10′	20′	10′ 20′	10′ 20′
CONCRETE (INCH)	ROOF	T_1	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12" 12"	12" 12"
	SIDE WALL	T_2	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12" 12"	12" 12"
	INVERT	T_3	12"	12"	12"	12"	12"	12"	12"	12"	12"	12"	12" 12"	12" 12"
MINIMUM WELDED WIRE FABRIC ($inch^2/ft$)		"a"	.73	1.21	1.21	1.24	.77	1.27	1.24	1.29	1.27	1.31	.78 1.32	1.29 1.32
		"b"	.51	.85	.85	.81	.49	.77	.81	.74	.77	.77	.53 .79	.74 .79
		"c"	.11	.11	.11	.11	.23	.30	.37	.42	.42	.60	.54 .82	.42 1.06
		"d"	.20	.11	.20	.11	.21	.11	.22	.11	.22	.11	.22 .11	.22 .11
		"e"	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11	.11 .11	.11 .11
		"f"	.62	1.10	1.10	1.13	.64	.97	1.13	.87	.97	.71	.40 .50	.87 .26
* QUANTITY	Conc	CY/LF	1.56		1.63		1.70		1.78		1.85		1.93	2.00
	Reinf	LB/LF	174	255	179	261	191	279	207	293	223	323	249 357	281 393
** SOIL PRESSURE (ksf)			3.6	4.7	3.7	4.7	3.7	4.8	3.7	4.8	3.7	4.8	3.8 4.9	3.8 4.9

* See Note 3 ** See Note 6

NOTES:

1. The inside and outside surfaces of the RCB roof shall be marked "TOP".
2. H1 minimum shall equal the wall thickness. H1 maximum shall be 8" for spans through 8' and 14" for spans over 8'.
3. Quantities are approximate and for design purposes only.
4. For design and details not shown see Standard Plan D83B.
5. For external sealing band applications see Standard Plan A62G.
6. Soil pressures shown are factored per AASHTO LRFD and include soil weight of fill over box, self weight of box and live load where applicable.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

PRECAST REINFORCED CONCRETE BOX CULVERT

NO SCALE

D83A

1-29-18

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

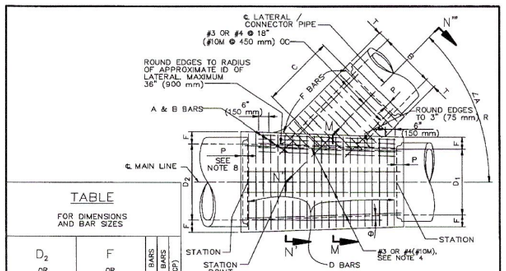
REGISTERED CIVIL ENGINEER — May 31, 2018 — PLANS APPROVAL DATE

Carl W. Dush, No. C59976, Exp. 6-30-18, CIVIL, STATE OF CALIFORNIA

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2018 STANDARD PLAN D83A

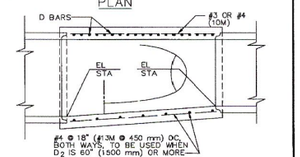
224



TABLE

FOR DIMENSIONS AND BAR SIZES

D_2 OR B (INCHES)	D_2 OR B (mm)	F OR T (INCHES)	F OR T (mm)	A OR B BARS	D OR F BARS	P (Min)
12	300	4	110	#3 @ 18" (#10M @ 450 mm) OC	#3 @ 18" (#10M @ 450 mm) OC	5" (125 mm)
15	375	4 1/4	110			
18	450	4 1/2	120			
21	525	5	130			
24	600	5 1/4	140			
27	675	5 1/2	140			
30	750	6	160			
33	825	6 1/4	160			
36	900	6 1/2	170			
39	975	7	180			
42	1050	7 1/2	190			
45	1125	7 3/4	200			
48	1200	8	210			
51	1275	8 1/2	220	#3 @ 18" (#10M @ 450 mm) OC	#3 @ 18" (#10M @ 450 mm) OC	5" (125 mm)
54	1350	9	230			
57	1425	9 1/4	240			
60	1500	9 1/2	250			
63	1575	10	260			
66	1650	10 1/4	260			
69	1725	10 3/4	280			
72	1800	11	280	#3 @ 18" (#10M @ 450 mm) OC OR #4 @ 18" (#13M @ 450 mm) OC	#3 @ 18" (#10M @ 450 mm) OC OR #4 @ 18" (#13M @ 450 mm) OC	5" (125 mm)
78	1950	11 3/4	300			
84	2100	12 1/2	320			
90	2250	13 1/4	340			
96	2400	14	360			
102	2550	15 1/2	400			
108	2700	16	410			
114	2850	16 1/2	420			
120	3000	17	440			
126	3150	17	440			
132	3300	17 1/2	450	#4 @ 18" (#13M @ 450 mm) OC OR #5 @ 18" (#16M @ 450 mm) OC	#4 @ 18" (#13M @ 450 mm) OC OR #5 @ 18" (#16M @ 450 mm) OC	8" (200 mm)
138	3450	17 1/2	450			
144	3600	18	460			



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1962 REV. 1995, 2009

TRANSITION STRUCTURE PIPE TO PIPE

STANDARD PLAN 340-2

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

SHEET 1 OF 2

NOTES

1. THE HORIZONTAL ANGLE OF CONVERGENCE OR DIVERGENCE, θ, SHALL NOT EXCEED 5° 45'.
2. VALUES FOR A, B, C, D_1 AND D_2 ARE SHOWN ON THE PLANS. ELEVATION R AND ELEVATION S ARE SHOWN WHEN REQUIRED BY NOTE 10.
3. FLOOR OF STRUCTURE SHALL BE STEEL TROWELED TO SPRING LINE.
4. REINFORCEMENT STEEL SHALL CONFORM TO ASTM A 615 (A 615 M), GRADE 300 (40), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN. LONGITUDINAL BARS SHALL BE #3 OR #4 @ 18" (#10M @ 450 mm) OC OR LESS.
5. ELEVATION S APPLIES AT INSIDE WALL OF STRUCTURE.
6. TRANSITION STRUCTURE SHALL BE POURED IN ONE CONTINUOUS OPERATION, EXCEPT THAT THE CONTRACTOR SHALL HAVE THE OPTION OF PLACING AT THE SPRING LINE A CONSTRUCTION JOINT LONGITUDINAL KEYWAY.
7. THE LENGTH OF THE STRUCTURE MAY BE INCREASED AT THE OPTION OF THE CONTRACTOR TO MEET RCP ENDS, USING D BARS, LONGITUDINAL AND BOTTOM REINFORCEMENT IN EXTENDED PORTION OF SAME DIAMETER AND SPACING AS SPECIFIED IN THE TABLE, BUT ANY CHANGE IN THE LOCATION OF SPUR MUST BE APPROVED BY THE ENGINEER.
8. EMBEDMENT P SHALL BE AS SPECIFIED IN THE TABLE, UNLESS OTHERWISE SHOWN ON THE PLANS.
9. WHEN THERE IS NO SPUR REQUIRED, A & B BARS SHALL BE OMITTED.
10. WHEN ELEVATION R AND ELEVATION S ARE NOT SHOWN ON PLANS, INLET PIPE SHALL ENTER MAIN LINE RADIALLY. WHEN INLET PIPE ENTERS MAIN LINE OTHER THAN RADIALLY, ELEVATION S SHALL BE SHOWN ON PLANS, AND INLET PIPE SHALL BE LAID ON A STRAIGHT GRADE FROM ELEVATION S TO CATCH BASIN OR GRADE BREAK IN INLET LINE. ELEVATION R SHALL BE SHOWN ON THE PLANS ONLY WHEN STUB IS TO BE PROVIDED IN MAIN LINE FOR FUTURE CONSTRUCTION OF INLET PIPE.
11. THE MAXIMUM COVER ABOVE THIS STRUCTURE SHALL BE 25' (7.5 m). IF THE COVER EXCEEDS 25' (7.5 m') A SPECIAL STRUCTURE SHALL BE DESIGNED FOR THE COVER AND DETAILED ON THE PLANS.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

TRANSITION STRUCTURE PIPE TO PIPE

STANDARD PLAN 340-2

SHEET 2 OF 2

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/18/22
ACCEPTED BY: KUSH DO, P.E., CITY ENGINEER — DATE 7/20/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SHAH REZA MOJARRAD — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE

DETAILS

CALTRANS # 08-22-6-UT-0007

PM-20016

SHEET 14 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

D14498 06/03/2022

Drawing Name: P:\Yer-2020\2020-015 REDA Phase II Final Engineering\DS Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11_21_2020-015_SD_DET.dwg
Last Opened: Jun 03, 2022 - 4:06pm by: BrentKing

DESIGN NOTES:

Specifications:
AASHTO LRFD Bridge Design Specifications, 4th Edition with California Amendments.

Earth load:
Earth pressures for two conditions:
140 pcf Vert, 42 pcf Horiz
140 pcf Vert, 140 pcf Horiz

Unit stresses:
f'c = 5.0 ksi
fy = 65.0 ksi for weld wire fabric
n = 7

Shear:
Based on
$V_c = (2.14\sqrt{f'_c}+4600\ \frac{A_s}{bd_e}\frac{V_u d_e}{M_u})\, b.d_e \le 4.0\sqrt{f'_c} b.d_e$ (Pounds)
V_c shall not be less than $3.00\sqrt{f'_c} b.d_e$
for frame members and $2.5\sqrt{f'_c} b.d_e$
for simply supported members.

Exclusion:
Axial loading on the members has not been considered.

GENERAL NOTES:

Designation:
Standard single or multiple precast box culverts are shown on the plans as span times height with maximum cover over roof thus: 8' x 5' RCB with 10'-0" or double 10' x 5' RCB with 20'-0", followed by alternatives.

Alternatives:
Single cell:
Standard dimensions of AASHTO Material Specification 'M259' or 'M273'.
Multiple cell:
Constructed by placing single cells adjacent to each other. Inlet and outlet ends of culvert will be rounded unless square ends are designated. Parapet will be shown unless designated in plans. Such designation may be different for inlet and outlet ends.

Limitations:
Where the overfill is less than 12", Precast RCB culverts are not to be used. Precast RCB culverts are not to be used in siphon or pressurized installations unless appropriate "watertight" jointing is provided.

Special reinforcement coverage:
Precast RCB culvert standard plans are not to be used in a corrosive environment or where there is a severe abrasive flow condition or freeze-thaw locations.

Special design:
Required for culvert with different conditions, loads or design bearing pressures greater than those given on these plans. Required for culverts where end details need higher skew angles, higher parapets or barrier sections.

CONSTRUCTION NOTES:

Cutoff walls:
4'-0" Cutoff walls are to be provided at inlet and/or outlet unless channel is lined and unless otherwise shown. These walls are to be extended if scour conditions warrant. See Standard Plans D84, D85 and D86A.

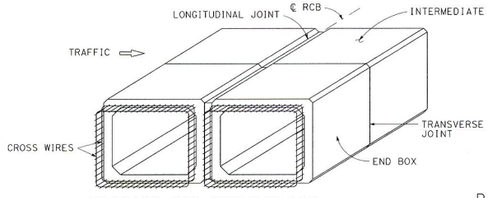
Wingwalls:
Wingwalls shall be cast-in-place and shall conform to standard plan details for box culvert wingwalls. See Standard Plans D84, D85 and D86A.

Earthwork:
See Standard Plan A62G.

Construction loads:
Strutting may be required near temporary ends. For construction loads on culverts, See Standard Plan D88.

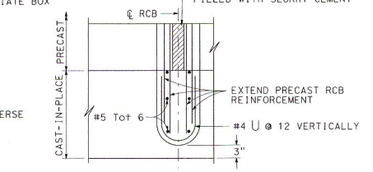
Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER
May 31, 2018
PLANS APPROVAL DATE
Cori W. Dunn, No. C59976, Exp. 6-30-18, CIVIL, STATE OF CALIFORNIA
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PRECAST RCB TERMINOLOGY

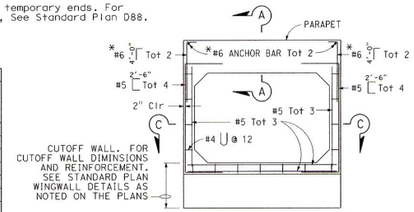
NOTE: Inner and outer reinforcement to be exposed as required to tie to cast-in-place construction. A minimum of two cross wires shall be exposed on all sides.



PARTIAL PLAN INTERIOR WALL MULTICELL CULVERT

PARAPET "P" BARS			
SKEW ANGLE / SPAN	0° TO 15°	16° TO 30°	31° TO 45°
4'-0"	#5	#5	#5
5'-0"	#5	#5	#6
6'-0"	#6	#6	#6
7'-0"	#7	#7	#7
8'-0"	#7	#7	#8
10'-0"	#8	#8	#9
12'-0"	#9	#9	#10

BARRIER PARAPET REINFORCEMENT

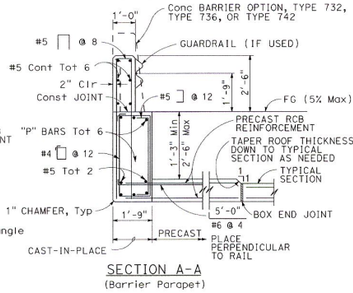


CAST-IN-PLACE END ELEVATION

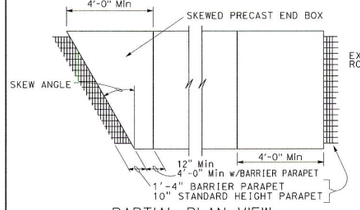
* Reinforcing required for barrier parapet application only.



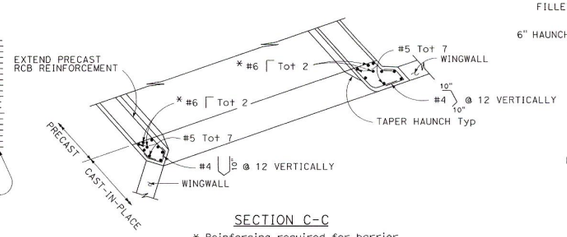
SECTION A-A (Standard Height Parapet)



SECTION A-A (Barrier Parapet)



PARTIAL PLAN VIEW
For illustrative purposes only. For correct skew direction see plans.



SECTION C-C
* Reinforcing required for barrier parapet application only.

TYPICAL CULVERT END DETAILS
For wall and invert reinforcement not shown, See "End Elevation" detail.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

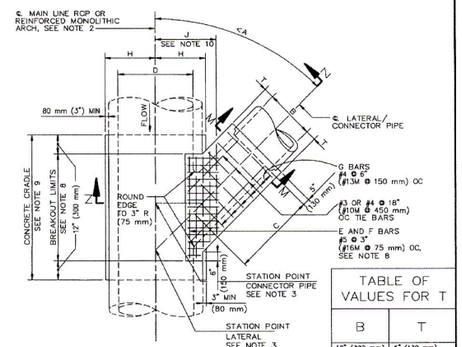
PRECAST REINFORCED CONCRETE BOX CULVERT MISCELLANEOUS DETAILS

NO SCALE

D83B

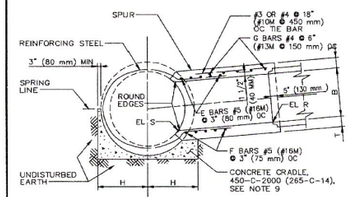
1-29-18

2018 STANDARD PLAN D83B



PLAN

TABLE OF VALUES FOR T	
B	T
12" (300 mm)	5" (130 mm)
15" (375 mm)	5" (130 mm)
18" (450 mm)	5" (130 mm)
21" (525 mm)	5" (130 mm)
24" (600 mm)	5 1/2" (140 mm)
27" (675 mm)	5 1/2" (140 mm)
30" (750 mm)	6" (150 mm)
33" (825 mm)	6 1/2" (170 mm)
36" (900 mm)	6 1/2" (170 mm)
39" (975 mm)	7" (180 mm)



SECTION Z-Z

SECTION M-M

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE. REV. 1990, 1999, 2009	JUNCTION STRUCTURE – PIPE TO PIPE INLET ID ≥ 24" (600 mm) OR OD > 1/2 MAIN LINE ID	STANDARD PLAN 331-3
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES

1. THIS JUNCTION STRUCTURE SHALL BE USED WHEN THE OUTSIDE DIAMETER OF THE LATERAL IS GREATER THAN 1/2 THE INSIDE DIAMETER D OF THE MAIN LINE; OR WHEN THE INSIDE DIAMETER B OF THE LATERAL IS GREATER THAN 24" (600 mm). B SHALL NOT EXCEED 0.75 D OR 39" (975 mm).
2. IF THE MAIN LINE IS A REINFORCED MONOLITHIC ARCH STORM DRAIN, D SHALL REFER TO THE CLEAR SPAN OF THE ARCH. REINFORCING STEEL SHALL BE CUT AND BENT INTO THE JUNCTION STRUCTURE IN THE SAME MANNER AS FOR A PIPE. A CONCRETE CRADLE IS NOT REQUIRED FOR A REINFORCED MONOLITHIC ARCH.
3. STATIONS SHOWN ON THE PLANS FOR LATERALS APPLY AT THE INTERSECTION OF CENTERLINES OF MAIN LINE AND LATERAL. STATIONS SHOWN ON THE PLANS FOR CATCH BASIN CONNECTOR PIPES APPLY AT THE INTERSECTION OF THE INSIDE WALL OF THE MAIN LINE WITH THE CONNECTOR PIPE CENTERLINE.
4. VALUES FOR A, B, C AND D SHALL BE SHOWN ON THE PLANS. ELEVATION R AND ELEVATION S SHALL BE SHOWN ONLY WHEN REQUIRED PER NOTE 5.
5. a. ELEVATIONS R AND S NEED NOT BE SHOWN ON THE PLANS IF THE INLET PIPE IS TO ENTER THE MAIN LINE RADIALLY.
   b. ELEVATION R SHALL BE SHOWN ON THE PLANS ONLY IF A STUB IS TO BE PROVIDED IN THE MAIN LINE FOR FUTURE CONNECTION OF AN INLET PIPE.
   c. ELEVATION S SHALL BE SHOWN ON THE PLANS IF AN INLET PIPE IS TO ENTER THE MAIN LINE OTHER THAN RADIALLY. INLET PIPE SHALL BE LAID ON A STRAIGHT GRADE FROM ELEVATION S TO THE CATCH BASIN OR GRADE BREAK IN LINE.
6. THE INLET PIPE SHALL ENTER THE MAIN LINE RADIALLY UNLESS OTHERWISE INDICATED. THE INLET PIPE MAY ENTER THE MAIN LINE OTHER THAN RADIALLY IF ANGLE A IS GREATER THAN 45°, B IS LESS THAN OR EQUAL TO 24" (600 mm) AND THE OUTSIDE DIAMETER OF THE INLET PIPE IS LESS THAN 0.5 D; OTHERWISE, SPPWC 340 SHALL BE USED.
7. NO MORE THAN ONE OPENING SHALL BE MADE IN ANY ONE SECTION OF PIPE.
8. THE OPENING FOR THE BREAKOUT SHALL BE RECTANGULAR AND CUT NORMAL TO THE PIPE SURFACE WITHOUT DAMAGING THE REINFORCING STEEL. THE TRANSVERSE REINFORCEMENT OF THE MAIN LINE SHALL BE CUT AT THE CENTER OF THE OPENING AND BENT INTO THE TOP AND BOTTOM SLABS OF THE SPUR.
9. THE MAIN LINE SHALL BE REINFORCED WITH A CONCRETE CRADLE AND ENCASEMENT (AS APPLICABLE). A CONCRETE ENCASEMENT IS REQUIRED IF A JOINT IN THE MAIN LINE FALLS WITHIN THE LIMITS OF THE CRADLE. THE CONCRETE ENCASEMENT SHALL EXTEND 12" (300 mm) ABOVE THE TOP OF THE MAIN LINE AND TO THE LIMITS OF THE CRADLE. IF CONNECTING TO AN EXISTING STORM DRAIN, PORTION OF CRADLE OPPOSITE INLET MAY BE OMITTED.
10. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 40, (ASTM A 615M, GRADE 300), AND BE PLACED 1 1/2" (40 mm) CLEAR FROM CONCRETE SURFACES, UNLESS OTHERWISE SHOWN F BARS SHALL BE CARRIED TO A POINT NOT LESS THAN J DISTANCE FROM CENTER LINE WITH J=7D/12 + 6" (150 mm).
11. FLOOR OF THE SPUR SHALL BE STEEL-TROWELED TO THE SPRING LINE OF THE SPUR.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
JUNCTION STRUCTURE–PIPE TO PIPE INLET ID≥24" (600 mm) OR OD>1/2 MAIN LINE ID	331-3
	SHEET 2 OF 2

Know what's below. Call 811 before you dig.

CITY OF CHINO

RECOMMENDED BY: _____ CITY ENGINEER — DATE 7/8/22

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/18/22

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/19/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF EOR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER, SIMA ROE MOHMD, No.85559, Exp. 9/30/2022, CIVIL, STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

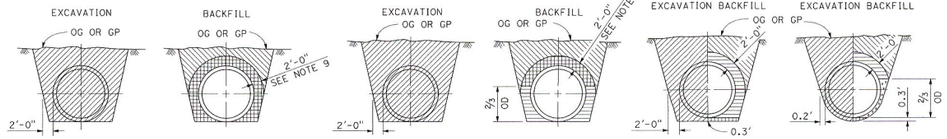
CALTRANS # 08-22-6-UT-0007

PM-20016

SHEET 15 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

D 14499 06/03/2022

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Last Opened: Jun 03, 2022 - 4:43pm by: BrentKing



MINIMUM ALLOWABLE CLASSES OF RCP FOR METHOD 1

COVER	MINIMUM CLASS AND D-LOAD
5.9'	CLASS II 1000D
6.0' - 7.9'	CLASS III 1350D
8.0' - 9.9'	CLASS III SPECIAL 1700D
10.0' - 11.9'	CLASS IV 2000D
12.0' - 13.9'	CLASS IV SPECIAL 2500D
14.0' - 16.9'	CLASS V 3000D
17.0' - 20.0'	CLASS V SPECIAL 3600D

See Notes 6 and 9

METHOD 1

MINIMUM ALLOWABLE CLASSES OF RCP FOR METHOD 2

COVER	MINIMUM CLASS AND D-LOAD
15.9'	CLASS II 1000D
16.0' - 19.9'	CLASS III 1350D
20.0' - 24.9'	CLASS III SPECIAL 1700D
25.0' - 27.9'	CLASS IV 2000D
28.0' - 34.9'	CLASS IV SPECIAL 2500D
35.0' - 41.9'	CLASS V 3000D
42.0' - 50.0'	CLASS V SPECIAL 3600D

See Notes 8 and 9

METHOD 2

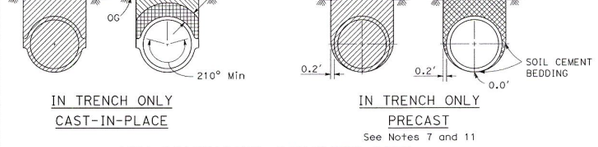
REINFORCED CONCRETE PIPE

See Notes 1, 2, 7 and 10

MINIMUM ALLOWABLE CLASSES OF RCP FOR METHOD 3

COVER	MINIMUM CLASS AND D-LOAD
25.9'	Class II 1000D
26.0' - 31.9'	Class III 1350D
32.0' - 37.9'	Class III Special 1700D
38.0' - 44.9'	Class IV 2000D
45.0' - 55.9'	Class IV Special 2500D
56.0' - 67.9'	Class V 3000D
68.0' - 80.0'	Class V Special 3600D

METHOD 3



NON-REINFORCED CONCRETE PIPE

NOTES:

1. Unless otherwise shown on the plans or specified in the special provisions, the Contractor shall have the option of selecting the class of RCP and the method of backfill to be used, provided the height of cover does not exceed the value shown for the RCP selected.
   Example:
   2'-0" RCP culvert with maximum cover of 19'-0" the options are:
   a) Class V Special or stronger with Method 1.
   b) Class III or stronger with Method 2.
   c) Class II or stronger with Method 3.
   Cover is defined as the maximum vertical distance from top of pipe to finished grade within the length of any given culvert.
2. The class of RCP, method of backfill and bedding selected shall be the same throughout the length of any given culvert.
3. The "length of any culvert" is defined as the culvert between:
   a) Successive drainage structures (inlets, junction boxes, headwalls, etc.).
   b) A drainage structure and the inlet or outlet end of the culvert.
   c) The inlet and outlet end of the culvert when there are no intervening drainage structures.
4. Slope or shore excavation sides as necessary.
5. Embankment height prior to excavation for installation of all classes of RCP under Methods 2 and 3A shall be as follows:
   Pipe sizes 1'-0" to 3'-6", I D = 2'-6"
   Pipe sizes 4'-0" to 7'-0", I D = 2/3 OD
   Pipe sizes larger than 7'-0", I D = 5'-0"
6. The maximum size for all classes of RCP placed under Method 1 is 6'-6" ID.
7. Non-reinforced precast pipe sizes 3'-0" or smaller may also be placed under Methods 1, 2 or 3.
8. Oval or arch shaped RCP shall be placed under Method 2 only.
9. Embankment compaction requirements govern over the 90% relative compaction backfill requirement within 2'-6" of finished grade.
10. Backfill shall be placed full width of excavation except where dimensions are shown for backfill width or thickness. Dimensions shown are minimums.
11. Where the precast non-reinforced concrete pipe is used as a substitute for the cast-in-place pipe, both the wall thickness and the concrete strength shall be at least as great as that specified for the cast-in-place pipe. The fill height allowed shall not exceed that shown for the cast-in-place pipe.

LEGEND

- STRUCTURE EXCAVATION (CULVERT)
- STRUCTURE BACKFILL (CULVERT) 95% RELATIVE COMPACTION
- STRUCTURE BACKFILL (CULVERT) 90% RELATIVE COMPACTION
- LOOSE BACKFILL
- SAND BEDDING
- SOIL CEMENT BEDDING
- ROADWAY EMBANKMENT

OD = OUTSIDE DIAMETER FOR CIRCULAR PIPES AND MAXIMUM VERTICAL DIMENSION FOR OTHER SHAPES

ID = INSIDE DIAMETER FOR CIRCULAR PIPES AND MINIMUM VERTICAL DIMENSION FOR OTHER SHAPES

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

REGISTERED PROFESSIONAL ENGINEER
Carl W. Dunn
No. C59976
Exp. 6-30-18
CIVIL
STATE OF CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

EXCAVATION AND BACKFILL CONCRETE PIPE CULVERTS

NO SCALE

A62D

1-26-18

2018 STANDARD PLAN A62D

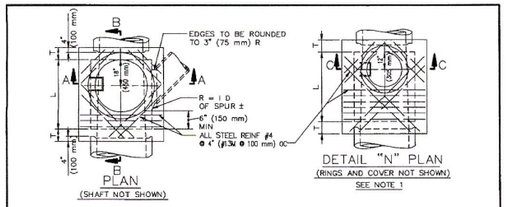


TABLE OF VALUES FOR M (SEE NOTE 1)

SECTION	PAVED STREET MAX	PAVED STREET MIN	UNPAVED STREET MAX	UNPAVED STREET MIN
A-A		2'-10 1/2" (867 mm)		3'-6" (1060 mm)
C-C	11" (282 mm)	8 1/2" (217 mm)	16" (410 mm)	15" (380 mm)

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1922 REV. 1998, 2009

MANHOLE PIPE-TO-PIPE (ONE OR BOTH MAIN LINE IDS 33" (825 mm) OR SMALLER)

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN **321-2** SHEET 1 OF 3

NOTES

1. WHEN DEPTH M FROM STREET GRADE TO THE TOP OF THE BOX IS LESS THAN 2'-10 1/2" (867 mm) FOR PAVED STREETS OR 3'-6" (1060 mm) FOR UNPAVED STREETS, CONSTRUCT SHAFT PER SECTION C-C AND DETAIL "N". DEPTH M MAY BE REDUCED TO AN ABSOLUTE LIMIT OF 6" (150 mm) WHEN LARGER VALUES OF M WOULD REDUCE H IN SECTION C-C TO 3'-6" (1060 mm) OR LESS.
2. H (IN SECTION A-A AND B-B) SHALL NOT BE LESS THAN 4'-0" (1.2 m), BUT MAY BE INCREASED PROVIDED THAT THE VALUE OF M SHALL NOT BE LESS THAN THE MINIMUM SPECIFIED AND THAT THE REDUCER SHALL BE USED. FOR H (IN SECTION C-C) SEE NOTE 1.
3. L SHALL BE 4'-0" (1.2 m) UNLESS OTHERWISE SHOWN. L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS, BUT ANY CHANGE IN LOCATION OF THE SPUR MUST BE APPROVED BY THE ENGINEER.
4. T SHALL BE 8" (200 mm) FOR VALUES OF H UP TO AND INCLUDING 8'-0" (2.4 m) AND 10" (250 mm) FOR VALUES OF H OVER 8'-0" (2.4 m).
5. STATIONS OF MANHOLES SHOWN ON PLANS APPLY AT CENTERLINE OF SHAFT. ELEVATIONS ARE SHOWN AT CENTERLINE OF SHAFT AND REFER TO THE PROLONGED INVERT GRADE LINES. SEE NOTE 3.
6. REINFORCEMENT SHALL CONFORM TO ASTM A 615, GRADE 40 (ASTM A 615M, GRADE 300), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
7. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
8. BODY OF MANHOLE SHALL BE POURED IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT SPRING LINE.
9. THICKNESS OF THE DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL SEAT BUT SHALL NOT BE LESS THAN 8" (200 mm).
10. STEPS SHALL CONFORM TO SPPWC 635 OR 636, UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC. THE LOWEST STEP SHALL NOT BE MORE THAN 24" (600 mm) ABOVE THE LEDGE AT THE SIDE OF THE MANHOLE.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

MANHOLE PIPE-TO-PIPE (ONE OR BOTH MAIN LINE IDS = 33" (825 mm) OR SMALLER)

STANDARD PLAN **321-2** SHEET 2 OF 3

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — 7/14/22 DATE
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — 7/18/22 DATE

CITY OF CHINO

RECOMMENDED BY: _____ CITY ENGINEER — 8/8/22 DATE

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SHAWN ROSE MACKINNEY — No. 85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE

DETAILS

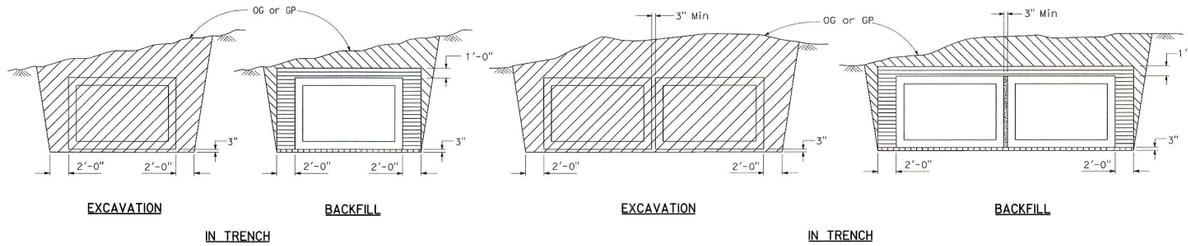
CALTRANS # 08-22-6-UT-0007

PM-20016

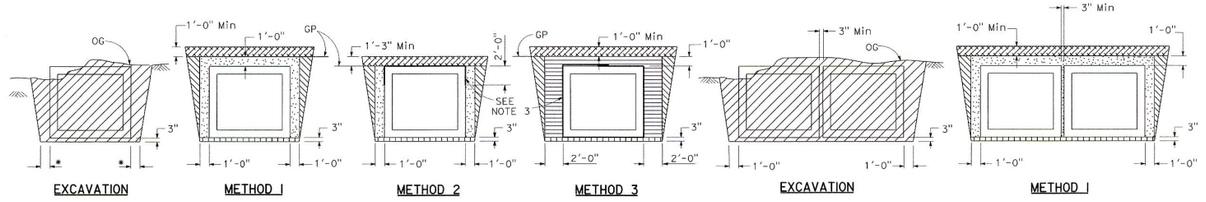
SHEET 16 OF 21
CONTRACT _____
ACCOUNT _____
DWG. NO. AA 59493D

D 14500 06/03/2022

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Last Opened: Jun 03, 2022 - 4:06pm by: Brent.King



FILL HEIGHT GREATER THAN 2'-0"



FILL HEIGHT 2'-0" OR LESS

* 1'-0" Where Method 1 or 2 Backfill is used.
2'-0" Where Method 3 Backfill is used.

LEGEND:

- STRUCTURE EXCAVATION (CULVERT)
- STRUCTURE BACKFILL (CULVERT) 95% RELATIVE COMPACTION
- ROADWAY EMBANKMENT
- SLURRY CEMENT BACKFILL
- SAND BEDDING (CULVERT)
- ROADWAY PAVEMENT STRUCTURE

NOTES:

1. Slope or shore excavation sides as necessary.
2. Dimensions shown are minimum.
3. Method 2 and 3 for single or multiple boxes requires an approved external sealing band. See Standard Plan D83A.
4. Construction of Roadway Pavement Structure in Method 2 or Method 3 shall not disturb the external sealing band installation.

Dist	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET No.	TOTAL SHEETS

REGISTERED CIVIL ENGINEER

May 31, 2018
PLANS APPROVAL DATE

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REGISTERED PROFESSIONAL ENGINEER — Carl W. Dunn — No. C59976 — Exp. 6-30-18 — CIVIL — STATE OF CALIFORNIA

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

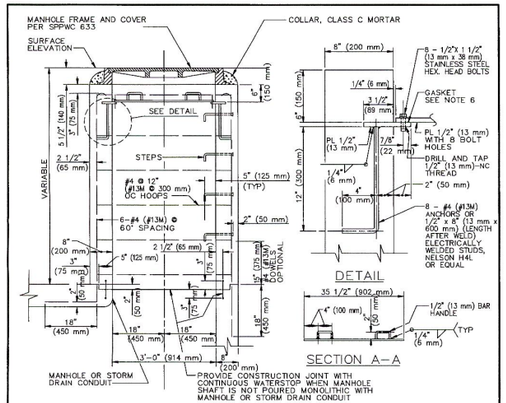
EXCAVATION AND BACKFILL PRECAST REINFORCED CONCRETE BOX CULVERT

NO SCALE

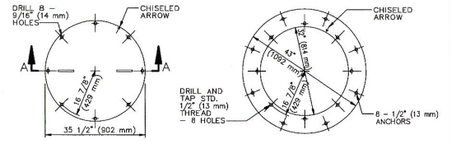
A62G

1-29-18

2018 STANDARD PLAN A62G



VERTICAL SECTION OF SPECIAL PRESSURE MANHOLE SHAFT



STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1302 REV. 1998, 2009

PRESSURE MANHOLE SHAFT AND PRESSURE PLATE DETAIL 36" (914 mm) WITHOUT REDUCER

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 329-2 SHEET 1 OF 2

NOTES

1. THIS STRUCTURE MAY BE USED FOR HYDROSTATIC HEADS UP TO 25' (7.5 m) ABOVE THE PRESSURE PLATE.
2. 36" (914 mm) MANHOLE FRAME AND COVER PER SPPWC 633 SHALL BE USED.
3. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 40 AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN. HOOPS MAY BE ELECTRICALLY BUTT WELDED OR THE ENDS LAPPED 18" (450 mm).
4. THE MANHOLE SHAFT SHALL BE LOCATED ABOVE AND IN LINE WITH THE SIDE OF THE CONDUIT BELOW.
5. STEPS SHALL CONFORM TO SPPWC 635 OR 636. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC.
6. GASKET MATERIAL SHALL BE NEOPRENE (OR EQUAL) 1/16" (2 mm) THICK BY 1 1/4" (32 mm) WIDE.
7. BOLTS SHALL BE STAINLESS STEEL CONFORMING TO ASTM A 320 (ASTM A 320M), GRADE B8.
8. PRESSURE PLATE AND PRESSURE PLATE RING SHALL BE STEEL CONFORMING TO ASTM A 36 (ASTM A 36M) AND SHALL BE GALVANIZED. PLATES SHALL BE MARKED IN SETS AND A CHISELED ARROW STAMPED ON BOTH PLATES, AFTER DRILLING AND TAPPING, TO FACILITATE FIELD ASSEMBLY.
9. SEE CONTRACT SPECIFICATIONS FOR PHYSICAL REQUIREMENTS OF WATERSTOP.
10. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:

    633 36" (914 mm) MANHOLE FRAME AND COVER
    635 STEEL STEP
    636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PRESSURE MANHOLE SHAFT AND PRESSURE PLATE DETAIL 36" (914mm) WITHOUT REDUCER

STANDARD PLAN 329-2 SHEET 2 OF 2

CALTRANS # 08-22-6-UT-0007

811 Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — 7/18/22 DATE
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CITY OF CHINO

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REGISTERED PROFESSIONAL ENGINEER — No. 85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE
DETAILS

PM-20016

SHEET 17 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 59498D

D14501 06/03/2022

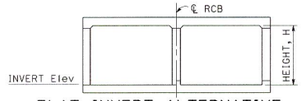
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Last Updated: Jun 03, 2022 - 4:06pm by: BrentJung

SPAN, S		4′				5′				6′				7′				8′			
HEIGHT, H		2′	3′	4′		2′	3′	4′	5′	3′	4′	5′	6′	3′	4′	5′	6′	7′	4′	5′	6′	7′	8′
MAXIMUM EARTH COVER		10′ 20′	10′ 20′	10′ 20′		10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′
Conc	ROOF T_1	7″ 7″	7″ 7½″	7″ 7½″		7″ 7″	7″ 7½″	7″ 7½″	9″ 9″	7″ 7″	7″ 10½″	7″ 10½″	9″ 9″	7″ 7″	7″ 10½″	7″ 10½″	9″ 9″	7″ 10½″	7½″ 11½″	7½″ 11½″	7½″ 11½″	7½″ 11½″	8½″ 11½″
	WALLS T_2	6″ 6½″	6½″ 7″	7″ 7″		8″ 6″	6½″ 6½″	7″ 7½″	7½″ 8″	8″ 6″	8½″ 7½″	10″ 8½″	11″ 9½″	6½″ 7½″	7″ 8½″	7½″ 10″	8½″ 11″	9½″ 12″	7½″ 9½″	8½″ 11″	9½″ 13″	10½″ 13″	11½″ 13″
	INVERT T_3	7″ 7½″	7″ 7½″	7″ 7½″		7″ 7½″	7″ 7½″	9″ 7½″	9″ 9″	7″ 8½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	8½″ 10½″	9½″ 12″	9½″ 12″	9½″ 12″	9½″ 12″	10½″ 13½″
	SPACING	12″ 12″	12″ 12″	12″ 12″		12″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11½″ 12″	11″ 10½″	11″ 10½″	11″ 10½″	11″ 10½″	11″ 10½″
Reinf	"g" SIZE BAR	#4 #7	#4 #7	#4 #7		#4 #7	#4 #7	#4 #7	#4 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7
	"f" SIZE BAR	#5 #5	#5 #5	#5 #5		#5 #5	#5 #5	#5 #5	#5 #5	#5 #5	#5 #5	#5 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5	#6 #5
	"a" SIZE BAR	#6 #4	#6 #4	#6 #4		#6 #4	#6 #4	#6 #4	#6 #4	#6 #4	#6 #4	#7 #4	#7 #4	#7 #4	#7 #4	#7 #4	#7 #4	#7 #4	#6 #4	#6 #4	#6 #4	#6 #4	#6 #4
	"e" SIZE BAR	#4 #4	#4 #4	#5 #5		#6 #4	#4 #4	#5 #5	#6 #5	#6 #6	#6 #6	#7 #6	#7 #6	#4 #5	#5 #6	#6 #6	#6 #6	#7 #6	#7 #5	#6 #5	#6 #6	#6 #6	#7 #6
QUANTITIES	CONCRETE CF/LF	14.1 15.1	15.9 17.1	17.9 19.6		16.9 20.5	18.8 22.9	21.7 25.1	24.0 28.5	22.3 29.3	24.3 32.0	26.5 35.6	29.5 38.5	26.8 36.1	29.3 38.3	31.1 41.9	34.0 46.0	38.0 51.3	34.2 46.7	36.9 50.4	39.9 55.2	43.2 59.9	47.7 66.0
	REINFORCEMENT LB/LF	109 109	115 122	130 141		133 130	139 145	156 164	163 192	202 167	218 188	239 213	250 243	237 209	254 232	275 262	287 298	299 317	334 287	345 301	376 317	390 359	406 378
**	SOIL PRESSURE (ksf)	2.1 4.1	2.2 4.1	2.2 4.1		3.2 4.1	3.2 4.1	3.2 4.1	3.3 4.2	3.1 4.1	3.1 4.2	3.1 4.2	3.1 4.2	3.0 4.1	3.0 4.2	3.0 4.2	3.0 4.2	3.1 4.3	2.9 4.2	2.9 4.2	3.0 4.3	3.0 4.3	3.0 4.4

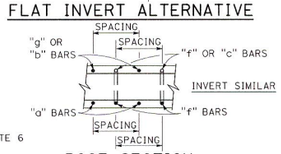
SPAN, S		10′							12′							14′							
HEIGHT, H		5′	6′	7′	8′	9′	10′		6′	7′	8′	9′	10′	11′	12′	7′	8′	9′	10′	11′	12′	13′	14′
MAXIMUM EARTH COVER		10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′		10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′	10′ 20′
Conc	ROOF T_1	10½″ 12½″	10½″ 15½″	10½″ 15½″	10½″ 15½″	10½″ 15½″	10½″ 15½″		11½″ 18″	11½″ 18″	11½″ 18″	11½″ 18″	11½″ 18″	11½″ 18″	11½″ 18″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″	13″ 20½″
	WALLS T_2	8½″ 8½″	8½″ 9½″	8½″ 10½″	9″ 12″	10″ 13½″	11″ 15″		8½″ 9½″	8½″ 10½″	9″ 12″	10″ 13½″	11″ 15″	12½″ 16½″	13½″ 18½″	9″ 11″	9″ 12″	10″ 13½″	11½″ 15″	12½″ 17″	13½″ 18½″	15″ 20″	16½″ 22″
	INVERT T_3	10½″ 16″	10½″ 16″	10½″ 16″	10½″ 16″	10½″ 16″	10½″ 16″		12″ 19″	12″ 19″	12″ 19″	12″ 19″	12″ 19″	12″ 19″	12″ 19″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″	13½″ 21½″
	SPACING	11″ 7½″	10½″ 7½″	10″ 8″	10″ 8″	10½″ 8″	10½″ 8½″		9″ 8″	9″ 8″	8″ 7½″	8″ 7½″	7½″ 8½″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	8½″ 8″	9″ 8″	9″ 8″
Reinf	"g" SIZE BAR	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7		#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #8	#8 #8	#8 #8	#8 #8	#8 #8	#8 #8	#8 #8	#8 #8
	"f" SIZE BAR	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6		#7 #6	#7 #8	#7 #8	#7 #7	#7 #7	#7 #7	#7 #8	#8 #8	#7 #8	#7 #8	#8 #8	#7 #8	#7 #8	#7 #8	#7 #8	#8 #8
	"a" SIZE BAR	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4		#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #5	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4
	SIZE BAR	#5 #5	#5 #4	#5 #5	#5 #6	#5 #6	#6 #6		#6 #6	#6 #6	#6 #6	#6 #6	#6 #6	#5 #6	#6 #6	#6 #6	#6 #5	#6 #6	#6 #5	#6 #5	#6 #6	#6 #6	#7 #7	#7 #7
	"b" Dim "B" ft-inch	1-9 2-7	2-0 2-9	2-3 2-9	2-7 3-1	2-7 3-1	2-7 3-1		2-7 3-1	3-0 3-2	3-6 3-2	3-6 3-4	3-9 3-4	3-9 3-4	3-9 3-4	3-4 2-7	2-7 3-3	3-3 3-4	4-0 4-0	4-0 4-0	4-7 4-4	4-7 4-11	5-3 4-11	5-3 4-11
	Dim "Bw" ft-inch	4-0 4-11	4-0 4-11	4-0 4-11	4-0 4-11	4-0 4-11	4-0 4-11		4-0 4-11	4-0 4-11	4-1 3-4	4-1 3-4	4-1 3-7	3-9 3-7	3-7 3-7	3-9 3-7	3-7 3-7	3-7 3-7	5-0 3-9	5-0 4-6	5-0 5-0	5-0 5-0	4-9 5-6	4-9 6-2	5-2 6-2	5-2 6-2
	"c" SIZE BAR	#5 #6	#6 #6	#6 #6	#6 #6	#6 #6	#7 #7		#6 #6	#6 #6	#6 #6	#6 #6	#6 #6	#7 #7	#7 #7	#7 #6	#6 #6	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#8 #8
	Dim "C" ft-inch	3-1 2-9	3-9 3-3	4-6 4-3	5-6 4-6	6-0 4-9	6-0 4-9		3-10 3-7	4-6 4-4	5-7 5-0	6-6 5-2	7-2 5-4	7-5 5-7	7-5 5-7	4-3 3-11	5-6 5-2	7-9 5-8	8-6 6-5	8-10 6-6	9-0 6-10	9-3 6-10	9-3 6-10	
*	"e" SIZE BAR	#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#5 #5		#4 #4	#4 #4	#4 #4	#4 #4	#4 #4	#5 #5	#5 #5	#5 #4	#4 #4	#4 #4	#4 #4	#4 #4	#5 #5	#5 #5	#5 #6	#6 #6
QUANTITIES	CONCRETE CF/LF	49.1 68.4	51.1 71.9	53.2 75.8	56.1 80.8	60.1 86.4	64.4 92.5		63.6 94.4	65.7 98.4	68.6 104	72.6 109	76.9 115	82.6 122	87.7 131	88.8 124	84.0 129	88.0 134	93.4 141	98 149	103 156	110 164	117 174
	REINFORCEMENT LB/LF	393 520	427 542	473 538	509 559	534 599	568 636		563 686	584 711	691 721	715 745	700 764	767 867	804 890	734 878	785 919	842 956	892 985	916 1015	964 1120	980 1141	1095 1269
**	SOIL PRESSURE (ksf)	2.8 4.8	2.8 4.9	2.9 4.9	2.9 4.9	2.9 4.9	2.9 5.0		2.8 4.8	2.8 4.9	2.8 4.9	2.8 4.9	2.8 4.9	2.9 5.0	2.9 5.0	2.8 4.8	2.8 4.9	2.8 4.9	2.8 4.9	2.8 5.0	2.9 5.0	2.9 5.0	2.9 5.0	2.9 5.1

NOTES:

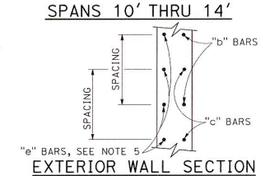
1. For boxes with span or height less than any of those shown in table, use next greater size box concrete dimensions and reinforcement. Make necessary changes in bar lengths and quantities.
2. For boxes with span or height or cover greater than those shown in tables, a special design is required.
3. Quantities are approximate and for design purposes only.
4. It is permissible to eliminate the 180° hooks on every other "e" bar.
5. "e" bars are at half spacing.
6. Provide paving notch when top is exposed and when pavement is concrete, and adjust quantities.
7. For design and details not shown, see Standard Plan D82.
8. This plan sheet may be used for multiple cell culverts by making necessary adjustments.
9. Soil pressures shown are factored per AASHTO LRFD and include soil weight of fill over box, self weight of box and live load where applicable.



FLAT INVERT ALTERNATIVE



ROOF SECTION
SPANS 10′ THRU 14′



EXTERIOR WALL SECTION
SPANS 10′ THRU 14′

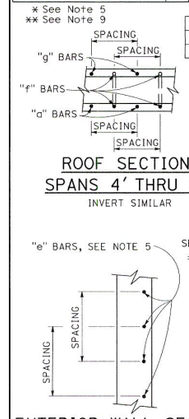
STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE REINFORCED CONCRETE DOUBLE BOX CULVERT

NO SCALE

D81

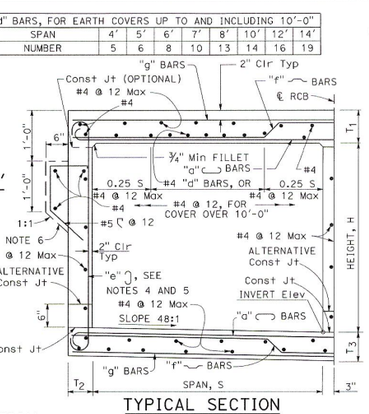
1-29-18



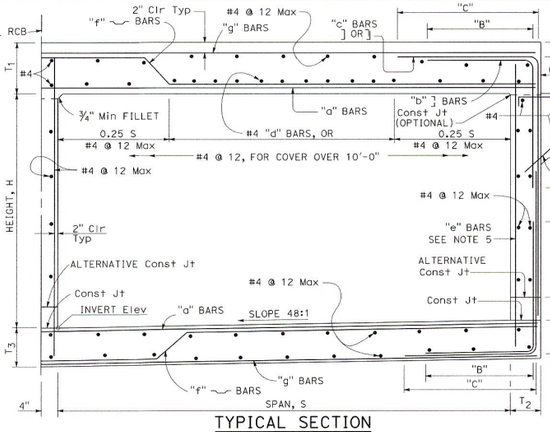
ROOF SECTION
SPANS 4′ THRU 8′
INVERT SIMILAR

EXTERIOR WALL SECTION
SPANS 4′ THRU 8′

"d" BARS, FOR EARTH COVERS UP TO AND INCLUDING 10′-0"							
SPAN	4′	5′	6′	7′	8′	10′	12′	14′
NUMBER	5	6	8	10	13	14	16	19



TYPICAL SECTION
SPANS 4′ THRU 8′



TYPICAL SECTION
SPANS 10′ THRU 14′

CONTINGENCY PLAN
(DEFORMATION LIMITS AND CORRECTIVE ACTION)

A. DEFORMATION LIMITS IDENTIFIED HEREIN AS THRESHOLD VALUES, CONTRACTOR CORRECTIVE ACTION VALUES, AND PROJECT SHUTDOWN VALUES FOR VARIOUS FEATURES BEING MONITORED ARE PROVIDED IN TABLE 1, RESPONSE VALUES OF MEASURED DEFORMATION.
B. CONTRACTOR'S CORRECTIVE ACTIONS, AS REQUIRED HEREIN, SHALL BE APPROVED BY THE DEPARTMENT PRIOR TO IMPLEMENTATION.
C. WHEN ANY OF THOSE ESTABLISHED MONITORING POINT'S MEASUREMENT INDICATES MOVEMENT EQUALS TO 50 PERCENT OF THE SHUTDOWN VALUE HAS OCCURRED, THE THRESHOLD VALUE IS SAID TO HAVE BEEN REACHED. AT THIS TIME, THE CONTRACTOR SHALL MEET WITH THE DEPARTMENT TO DISCUSS HIS/HER CONSTRUCTION MEANS AND METHODS TO DETERMINE WHAT CHANGES, IF ANY, SHALL BE MADE TO BETTER CONTROL GROUND MOVEMENT AND PREVENT DEFORMATION OF MONITORED FEATURES. MEASUREMENTS SHALL BE REQUIRED EVERY 2–HOURS, UNLESS MORE STRINGENTLY SPECIFIED, UNTIL FIVE CONSECUTIVE WORKING DAYS OF READINGS OBSERVED BEING BELOW THE THRESHOLD VALUE.
D. WHEN ANY OF THOSE ESTABLISHED MONITORING POINT'S MEASUREMENT INDICATES MOVEMENT EQUALS TO 75 PERCENT OF THE SHUTDOWN VALUE HAS OCCURRED, CONTRACTORS CORRECTIVE ACTION VALUE IS SAID TO HAVE BEEN REACHED. AT THIS TIME, THE CONTRACTOR SHALL ACTIVELY CONTROL GROUND MOVEMENT IN ACCORDANCE WITH THE APPROVED PLAN TO PREVENT DEFORMATION BEYOND THE CONTRACTOR CORRECTIVE ACTION VALUE. MEASUREMENTS SHALL BE REQUIRED EVERY 2–HOURS, UNLESS MORE STRINGENTLY SPECIFIED, UNTIL FIVE CONSECUTIVE WORKING DAYS OF READINGS OBSERVED BEING BELOW THE THRESHOLD VALUE.
E. WHEN ANY OF THOSE ESTABLISHED MONITORING POINT'S MEASUREMENT INDICATES MOVEMENT EQUALS TO 100 PERCENT OF THE SHUTDOWN VALUE HAS OCCURRED, THE SHUTDOWN VALUE IS SAID TO HAVE BEEN REACHED. AT THIS TIME, THE CONTRACTOR SHALL STOP ALL EXCAVATION WORK IMMEDIATELY, AND SHALL CONTINUE IMPLEMENTING MEASURES TO PREVENT FURTHER DEFORMATIONS, AND SHALL MEET THE DEPARTMENT TO DEVELOP A PLAN OF ACTION BEFORE EXCAVATION WORK CAN BE RESUMED.

PROTECTION AND PLACEMENT

A. ALL INSTRUMENTS AND INSTRUMENTATION POINTS SHALL BE PROTECTED FROM DAMAGE.
B. ALL INSTRUMENTS AND INSTRUMENTATION POINT DAMAGE RESULTING FROM CONSTRUCTION OPERATIONS, WEATHER, TRAFFIC, OR VANDALISM SHALL BE REPAIRED OR REPLACED AND RE–INSTALLED AT NO ADDITIONAL COST PRIOR TO CONTINUING TUNNELING, OR AS REQUIRED BY THE DEPARTMENT.

TABLE 1 - RESPONSE VALUES OF MEASURED DEFORMATION				
INSTRUMENTATION DEVISE	MONITORED FEATURE	THRESHOLD VALUE (FEET)	CONTRACTOR CORRECTIVE ACTION VALUE (FEET)	SHUTDOWN VALUE (FEET)
TOTAL MOVEMENT OF INDIVIDUAL SETTLEMENT MONUMENTS	ROADWAY (SR-83 BETWEEN PM 3.92-4.42	0.01	0.015	0.02

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — 7/28/22 DATE
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER FOR — 7/28/22 DATE

CITY OF CHINO

RECOMMENDED BY: CITY ENGINEER — 8/8/22 DATE

BENCH MARK No. GG–18–1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG–18–1," SET ON TOP OF CURB. APPROX 5' +/– SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA ROSE MACKINNEY — No. 85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989–9789 FAX: (909) 989–9660
SIGNATURE: SIARA A. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN

EUCLID AVENUE
DETAILS

CALTRANS # 08-22-6-UT-0007

PM-20016

SHEET 18 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 594985

D14502 06/03/2022

Drawing Name: P:\Year_2020\2020-015 REDA, Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\11_21_2020-015_SD_DET.dwg
Last Opened: Jun 03, 2022 - 4:06pm by: Brent.King

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT SURVEY GRID
TR-0151 (REV. 09/2006)

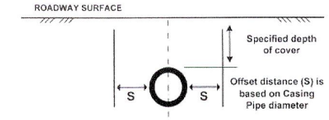
LEGEND:

- Octagon Data Points required when the diameter is < 8′.
- Octagon & Triangle Data Points required when the diameter is > 8′.
- Settlement Rod may be required when the diameter is > 5′. (Settlement Rod Detail is located in Appendix E of the Encroachment Permits Manual)
- EP — Edge of Pavement
- ETW — Edge of Travel Way (Fog line, Yellow Stripe, etc.)
- S — Offset Distance away from the pipe alignment, as follows:
  - 3′ for casing pipe diameters < 30″
  - 5′ for casing pipe diameters 30″ - 72″
  - 10′ for casing pipe diameters 72″ - 108″
  - 15′ for casing pipe diameters > 108″

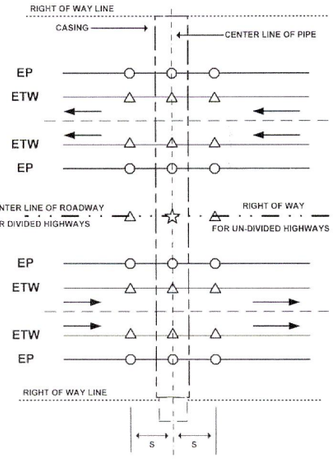
NOTES:

Survey data is to be collected at the specific points along the casing alignment at the following times:

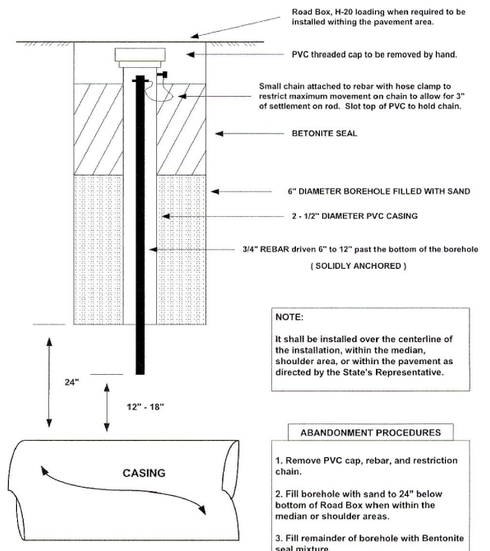
1. Prior to Start of Work.
2. Every two (2) hours continuously throughout the project.
3. Upon completion of the project.
4. Every two (2) months, during a six month period after the date of completion, and or As Required by the Department.



PROFILE



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT SETTLEMENT ROD DETAIL
TR-0152 (REV. 09/2006)



NOTE:

It shall be installed over the centerline of the installation, within the median, shoulder area, or within the pavement as directed by the State's Representative.

ABANDONMENT PROCEDURES

1. Remove PVC cap, rebar, and restriction chain.
2. Fill borehole with sand to 24" below bottom of Road Box when within the median or shoulder areas.
3. Fill remainder of borehole with Bentonite seal mixture.
4. Remove Road Box and back fill with an approved backfill.

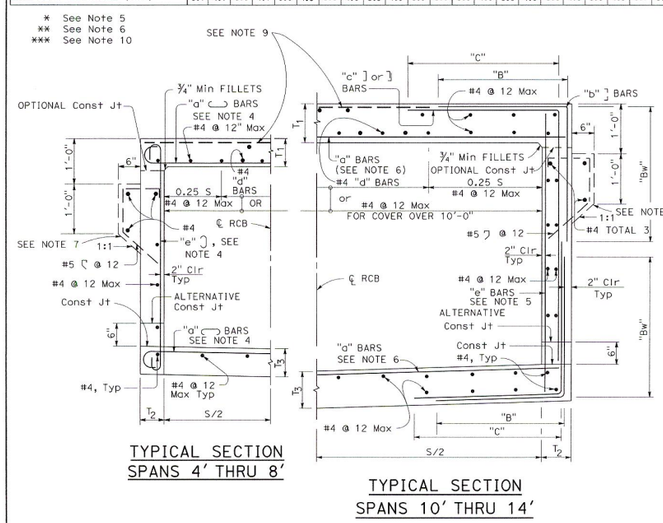
2018 STANDARD PLAN D81

SPAN, S		4'			5'			6'				7'				8'				
HEIGHT, H		2'	3'	4'	2'	3'	4'	5'	3'	4'	5'	6'	3'	4'	5'	6'	7'	4'	5'	6'	7'	8'
MAXIMUM EARTH COVER		10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'
Conc	ROOF T_1	7" 7½"	7" 7½"	7" 7½"	7" 7½"	7½" 8"	7½" 8"	7½" 8"	8" 9"	8" 9"	8" 9"	8" 9"	8" 10"	8" 10"	8" 10"	8" 10"	8½" 10½"	8½" 10½"	8½" 10½"	8½" 10½"	8½" 11½"	8½" 11½"
	WALLS T_2	6" 6"	6" 6½"	6½" 6½"	7" 7½"	6" 6"	6" 6½"	6½" 6½"	7" 7"	7" 7"	7" 7"	7½" 8"	8" 9½"	8" 9½"	8" 11"	9" 12½"	6½" 7½"	7" 8"	7½" 9½"	8½" 11"	9" 12½"	
	INVERT T_3	7" 7½"	7" 7½"	7" 7½"	7½" 8"	8" 11½"	8" 11½"	8" 11½"	8" 9"	8" 9"	8" 9½"	8" 9½"	8" 10½"	8" 10½"	8" 10½"	8½" 12"	8½" 11½"	8½" 11½"	8½" 11½"	8½" 12"	8½" 12"	
Reinf	SPACING	7" 6"	7" 6"	7" 6"	8½" 6"	8½" 5½"	8" 5½"	8" 5"	7½" 5"	7½" 5"	7" 5"	7" 4½"	6" 4½"	6" 4½"	6" 5½"	6" 5½"	6" 5½"	5½" 5"	5½" 5"	5" 5"	5" 4½"	5½" 4½"
	"a" SIZE BAR	#6 #6	#6 #6	#6 #6	#7 #7	#7 #7	#7 #7	#7 #7	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7
	"e" SIZE BAR	#4 #4	#4 #5	#6 #5	#6 #4	#4 #4	#5 #5	#5 #6	#6 #6	#6 #7	#6 #7	#6 #7	#4 #4	#5 #5	#6 #6	#7 #7	#7 #7	#7 #7	#5 #6	#6 #6	#7 #7	#7 #7
QUANTITIES	CONCRETE CF/LF	7.8 8.3	9.2 9.6	10.7 11.6	9.5 10.0	10.9 11.4	12.4 12.9	14.1 15.1	13.1 14.3	14.2 15.4	15.9 18.0	17.8 21.2	14.0 17.5	15.1 19.1	16.7 21.1	18.8 24.5	21.8 28.3	17.2 22.7	18.8 25.1	20.6 28.3	23.3 32.1	25.5 36.4
	REINFORCEMENT LB/LF	47.7 51.1	57.8 71.4	63.5 80.8	57.8 73.7	66.6 92.5	83.0 111	101 114	77.6 94.7	96.6 114	110 126	132 152	102 106	115 124	134 166	160 181	173 196	135 166	156 177	184 208	197 252	209 269
*** SOIL PRESSURE (ksf)		2.4 4.5	2.4 4.5	2.5 4.6	2.4 4.5	2.4 4.5	2.5 4.6	2.5 4.6	2.4 4.6	2.5 4.6	2.5 4.7	2.4 4.6	2.4 4.6	2.4 4.6	2.5 4.6	2.5 4.7	2.5 4.7	2.6 4.8	2.4 4.6	2.5 4.7	2.5 4.7	2.6 4.8	2.6 4.9

SPAN, S		10'						12'							14'									
HEIGHT, H		5'	6'	7'	8'	9'	10'	6'	7'	8'	9'	10'	11'	12'	7'	8'	9'	10'	11'	12'	13'	14'		
MAXIMUM EARTH COVER		10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'	10' 20'		
Conc	ROOF T_1	9½" 12"	9½" 12"	9½" 12"	9½" 12"	9½" 12"	9½" 12"	10½" 14½"	10½" 14½"	10½" 14½"	10½" 14½"	10½" 14½"	10½" 14½"	10½" 14½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"	12" 16½"		
	WALLS T_2	8½" 8½"	8½" 9½"	9" 10½"	9" 12"	10" 13½"	11" 15"	9" 10½"	9" 10½"	9½" 12"	10" 13½"	11" 15"	11" 15"	11½" 15"	9½" 11"	9½" 12"	10" 13½"	11½" 15"	12½" 16½"	13½" 18"	15" 19½"	16½" 21½"		
	INVERT T_3	10" 12½"	10" 12½"	10" 12½"	10" 13"	10" 13"	10" 13"	11" 14½"	11" 15"	11" 15"	11" 15"	11" 15"	11½" 15"	11½" 15½"	12½" 17"	12½" 17"	12½" 17"	12½" 17"	12½" 17"	12½" 17½"	13" 18"	13" 18"		
Reinf	SPACING	11" 12"	12" 12"	11" 11"	10" 11"	10" 10"	11" 10"	9" 10"	9" 10"	9" 10"	10" 8"	10" 8"	10" 8"	9" 8"	10" 9"	10" 8"	9" 8"	8" 8"	10" 10"	10" 10"	10" 10"	10" 9"		
	**"a" SIZE BAR	#7 #8	#7 #8	#7 #8	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #6	#7 #7	#7 #8	#7 #8	#7 #7	#7 #7	#7 #6	#8 #7	#7 #7	#7 #7	
	"b" SIZE BAR	#7 #7	#7 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#7 #8	#7 #8	#7 #8	#6 #7	#7 #7	#7 #7	#7 #7	#7 #8	#7 #7	#7 #8	#7 #8	#8 #8	#8 #8	
	DIMENSION "B" ft-inch	2-11 2-11	2-11 3-0	2-11 3-0	2-11 3-9	2-11 3-9	2-11 3-9	2-11 3-9	3-1 3-2	3-9 3-9	3-9 3-9	3-7 3-9	3-7 4-4	3-7 4-4	4-4 4-4	4-4 4-4	4-4 4-4	2-9 4-2	3-4 4-4	3-4 4-4	3-4 4-6	3-5 4-6	3-6 4-6	
	DIMENSION "Bw" ft-inch	4-10 5-0	4-10 5-0	4-10 5-0	4-10 5-0	4-10 5-0	4-10 5-0	4-10 5-0	5-10 6-2	6-7 6-2	6-7 6-2	6-7 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11	4-11 4-11		
	"c" SIZE BAR #	#6 #7	#6 #7	#7 #6	#7 #6	#7 #7	#7 #7	#7 #7	#6 #7	#6 #7	#6 #7	#6 #7	#6 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#7 #7	#8 #8	#8 #8
	DIMENSION "c" ft-inch	3-4 3-6	7-4 4-8	7-7 4-8	8-2 4-8	7-7 5-2	7-7 5-11	4-4 3-10	8-1 5-7	8-1 5-7	8-1 5-7	8-1 5-7	8-1 6-4	8-1 6-4	6-10 4-3	4-2 6-9	6-9 5-10	5-10 6-0	6-4 8-11	6-4 8-11	7-0 8-11	7-7 8-11	7-9	
	*"e" SIZE BAR	#4 #4	#4 #5	#6 #6	#6 #6	#7 #7	#7 #8	#8 #8	#4 #4	#4 #4	#4 #4	#5 #4	#5 #5	#6 #6	#6 #6	#4 #4	#4 #4	#4 #4	#4 #4	#5 #5	#5 #5	#5 #5	#6 #7	#7 #7	#7 #7	
QUANTITIES	CONCRETE CF/LF	25.1 30.4	27.1 33.1	29.2 36.2	30.7 41	34 45.8	37.6 51	33.2 43.7	34.7 46.1	37 50.4	39.5 55.3	43.7 60.6	48.7 67.1	53.1 73.5	42.9 57	44.5 60.7	47 65.6	51.7 71.8	55.8 77.1	60.9 84.2	66.9 91.8	73.4 101		
	REINFORCEMENT LB/LF	271 296	278 333	341 366	359 406	428 469	487 530	322 371	379 417	390 449	430 477	499 500	527 610	530 614	413 529	467 595	467 608	526 632	633 651	630 717	688 737	747 861		
*** SOIL PRESSURE (ksf)		3.7 4.7	3.8 4.7	3.8 4.8	3.8 4.8	3.9 4.9	3.9 5.0	3.6 4.8	3.6 4.8	3.6 4.9	3.6 4.9	3.7 5.0	3.7 5.0	3.8 5.1	3.4 4.9	3.5 4.9	3.5 4.9	3.5 4.9	3.5 5.0	3.6 5.1	3.6 5.1	3.7 5.2	3.7 5.3	

"d" BARS, FOR EARTH COVERS UP TO AND INCLUDING 10'-0"									
SPAN	4'	5'	6'	7'	8'	10'	12'	14'
NUMBER	7	8	9	10	11	12	15	20

* See Note 5
** See Note 6
*** See Note 10

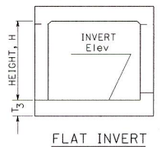


TYPICAL SECTION
SPANS 4' THRU 8'

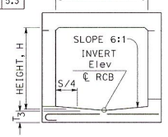
TYPICAL SECTION
SPANS 10' THRU 14'

ROOF SECTION
SPANS 10' THRU 14'
INVERT SIMILAR

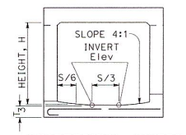
WALL SECTION
SPANS 10' THRU 14'



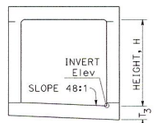
FLAT INVERT



V INVERT



TRAPEZOIDAL INVERT



SLOPED INVERT

ALTERNATIVE INVERTS

NOTES:

1. For boxes with span or height less than any of those shown in table, use next greater size box concrete dimensions and reinforcement. Make necessary changes in bar lengths and quantities.
2. Quantities are approximate and for design purposes only.
3. For boxes with span or height or cover greater than those shown in tables, a special design is required.
4. It is permissible to eliminate the 180° hooks on every other bar.
5. "e" bars are at half spacing (spans 10' - 14' only).
6. "a" bars are at half spacing (spans 10' - 14' only).
7. Provide paving notch when top is exposed and when pavement is concrete, and adjust quantities.
8. For design and details not shown, see Standard Plan D82.
9. For exposed top, provide #4 @ 12 each way, lap "c" bars 2'-0" or use full span length.
10. Soil pressures shown are factored per AASHTO LRFD and include soil weight of fill over box, self weight of box and live load where applicable.

STATE OF CALIFORNIA
DEPARTMENT OF TRANSPORTATION

CAST-IN-PLACE REINFORCED CONCRETE SINGLE BOX CULVERT

NO SCALE

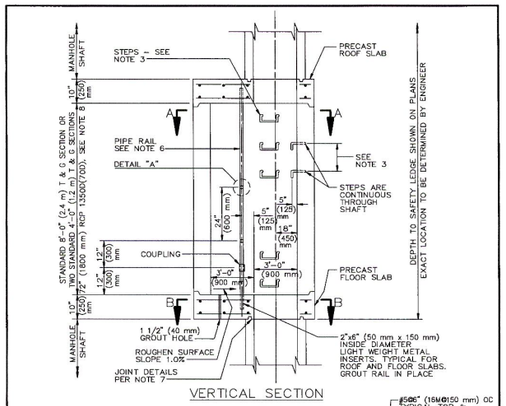
D80

1-29-18

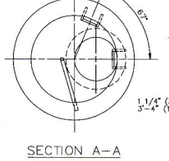
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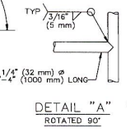
REGISTERED CIVIL ENGINEER
May 31, 2018
PLANS APPROVAL DATE
Carl M. Dunn
No. C59976
Exp. 6-30-18
CIVIL
REGISTERED PROFESSIONAL ENGINEER
STATE OF CALIFORNIA
THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

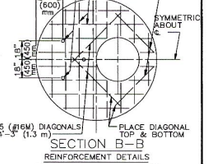
2018 STANDARD PLAN D80



VERTICAL SECTION







STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1992 REV. 1996, 2009

MANHOLE SHAFT SAFETY LEDGE

USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 330–2 SHEET 1 OF 2

NOTES

1. MANHOLE SHAFT SAFETY LEDGE WILL BE NOTED ON THE PLANS WHEN REQUIRED. IT IS TO BE CONSTRUCTED WHEN DEPTH OF MANHOLE TO INVERT IS GREATER THAN 20' (6 m) AND MANHOLE SHAFT IS GREATER THAN 10' (3 m).
2. A SAFETY LEDGE SHALL NOT BE USED IF A PRESSURE MANHOLE IS REQUIRED.
3. STEPS SHALL CONFORM TO SPPWC 635 OR 636 AND SHALL BE ANCHORED 4" (100 mm) IN THE WALL OF THE STRUCTURE. STEPS SHALL BE PLACED TO MATCH THE SPACING OF THE MANHOLE SHAFT.
4. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 40 (ASTM A 615M, GRADE 300) AND SHALL TERMINATE 2" (50 mm) CLEAR OF CONCRETE SURFACE UNLESS OTHERWISE SHOWN.
5. GROUT HOLES, PIPE AND FITTINGS SHALL BE PROVIDED IN THE FLOOR SLAB. PRESSURE GROUTING SHALL BE USED TO FILL VOIDS AND TO SECURE UNIFORM BEARING. THE GROUT SHALL BE NEAT CEMENT GROUT AND GROUTING PRESSURES SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER.
6. PIPE RAIL SHALL BE FABRICATED OF 1 1/4" (32 mm) STANDARD GALVANIZED PIPE COMPOSED OF TWO SECTIONS 7'–6" (2.25 m) & 18" (450 mm) IN LENGTH JOINED BY A GALVANIZED COUPLING. THE COUPLING SHALL BE THREADED A MINIMUM OF 2" (50 mm) ON EACH PIPE LENGTH.
7. ROOF AND FLOOR SLABS SHALL BE PRECAST AND KEYED FOR REINFORCED CONCRETE PIPE SECTIONS AS SHOWN. ALL JOINTS SHALL BE FILLED WITH CLASS C MORTAR AND NEATLY POINTED OR WIPED ON THE INSIDE.
8. 72" (1800 mm) RCP SHALL BE PROVIDED WITH TWO CIRCULAR CAGES OF REINFORCEMENT.
9. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:

   324 MANHOLE SHAFT – WITH ECCENTRIC REDUCER
   326 MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER
   635 STEEL STEP
   636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

MANHOLE SHAFT SAFETY LEDGE

STANDARD PLAN 330–2 SHEET 2 OF 2

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/28/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE 7/29/22

CITY OF CHINO

RECOMMENDED BY: CITY ENGINEER — DATE 8/8/22

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 6/22/22 DATE

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

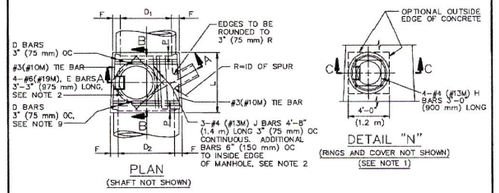
PM-20016

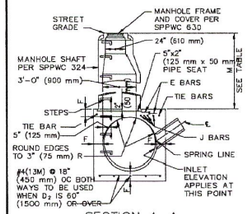
SHEET 19 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

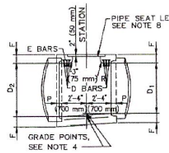
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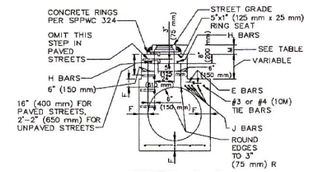
D14503 06/03/2022

Drawing Name: P:\Yrec 2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\OFF-SITE\STORM DRAIN EUCLID\T1_21_2020-015_SD_DET.dwg
Last Opened: Jun 10, 2022 - 4:09pm by: BrentKing









STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION

PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1992 REV. 1996, 2009

MANHOLE PIPE-TO-PIPE
MAIN LINE ID=36" (900 mm) OR LARGER
USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

STANDARD PLAN 320-2
SHEET 1 OF 4

NOTES

1. WHEN DEPTH M FROM STREET GRADE TO THE TOP OF THE BOX IS LESS THAN 2'-10 1/2" (867 mm) FOR PAVED STREETS OR 3'-6" (1060 mm) FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT PER SECTION C-C AND DETAIL "N". SHAFT FOR ANY DEPTH OF MANHOLE MAY BE CONSTRUCTED PER SECTION C-C. WHEN DIAMETER D_1 IS 48" (1200 mm) OR LESS, CENTER OF SHAFT MAY BE LOCATED PER NOTE 2.
2. CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTER LINE OF STORM DRAIN WHEN DIAMETER D_1 IS 48" (1200 mm) OR LESS, IN WHICH CASE PLACE E BARS SYMMETRICALLY AROUND SHAFT AT 45° WITH CENTERLINE AND OMIT J BARS.
3. L AND P SHALL HAVE THE FOLLOWING VALUES UNLESS OTHERWISE SHOWN ON THE PROJECT DRAWINGS:
   A. D_2=96" (2400 mm) OR LESS, L=5'-6" (1.7 m), P=5" (130 mm)
   B. D_2 OVER 96" (2400 mm), L=6'-0" (1.8 m), P=8" (210 mm)
   L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS. WHEN L GREATER THAN THAT SHOWN ABOVE IS SPECIFIED, D BARS SHALL BE CONTINUED 6" (150 mm) OC.
4. STATIONS OF MANHOLES SHOWN ON PLANS APPLY AT CENTERLINE OF SHAFT. ELEVATIONS ARE SHOWN AT CENTERLINE OF SHAFT AND REFER TO THE PROLONGED INVERT GRADE LINES.
5. REINFORCEMENT SHALL CONFORM TO ASTM A 615M, GRADE 300 (ASTM A 615, GRADE 40), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
6. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
7. BODY OF MANHOLE SHALL BE POURED IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT SPRING LINE.
8. THICKNESS OF THE DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL SEAT BUT SHALL NOT BE LESS THAN THE TABULAR VALUES FOR F SHOWN ON SHEET 2.
9. D BARS SHALL BE #4 (#13M) FOR D_2=39" (975 mm) OR LESS, #5 (#16M) FOR D_2= 42" (1050 mm) TO 84" (2100 mm) INCLUSIVE AND #6 (#19M) FOR D_2= 90" (2250 mm) OR OVER.
10. CENTERLINE OF INLET PIPE SHALL INTERSECT INSIDE FACE OF CONE AT SPRING LINE UNLESS OTHERWISE SHOWN.
11. STEPS SHALL CONFORM TO SPPWC 635 OR 636. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC. THE LOWEST STEP SHALL NOT BE MORE THAN 24" (600 mm) ABOVE THE INVERT.
12. THE FOLLOWING CRITERIA SHALL BE USED FOR THIS MANHOLE:
   A. MAIN LINE = 36" (900 mm) INSIDE DIAMETER OR LARGER, EXCEPT IF THE MAIN LINE RCP DOWNSTREAM OF MANHOLE IS 36" (900 mm) TO 42" (1050 mm) INSIDE DIAMETER AND THE MAIN LINE RCP UPSTREAM IS 33" (825 mm) OR LESS SPPWC 321 SHALL BE USED.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE
MAIN LINE ID = 36" (900 mm) OR LARGER
STANDARD PLAN 320-2
SHEET 3 OF 4

TABLE OF VALUES FOR F	
D_2	F
36" (900 mm)	6 1/2" (165 mm)
39" (975 mm)	7" (180 mm)
42" (1050 mm)	7 1/2" (190 mm)
45" (1125 mm)	7 3/4" (195 mm)
48" (1200 mm)	8" (205 mm)
51" (1275 mm)	8 1/2" (215 mm)
54" (1350 mm)	9" (230 mm)
57" (1425 mm)	9 1/4" (235 mm)
60" (1500 mm)	9 1/2" (240 mm)
63" (1575 mm)	10" (255 mm)
66" (1650 mm)	10 1/4" (260 mm)
69" (1725 mm)	10 3/4" (275 mm)
72" (1800 mm)	11" (280 mm)
78" (1950 mm)	11 3/4" (300 mm)
84" (2100 mm)	12 1/2" (320 mm)
90" (2250 mm)	13 1/4" (335 mm)
96" (2400 mm)	14" (355 mm)
102" (2550 mm)	15 1/2" (395 mm)
108" (2700 mm)	16" (405 mm)
114" (2850 mm)	16 1/2" (420 mm)
120" (3000 mm)	17" (430 mm)
126" (3150 mm)	17" (430 mm)
132" (3300 mm)	17 1/2" (445 mm)
138" (3450 mm)	17 1/2" (445 mm)
144" (3600 mm)	18" (455 mm)

TABLE OF VALUES FOR M (SEE NOTE 1)				
SECTION	PAVED STREET		UNPAVED STREET	
	MAX	MIN	MAX	MIN
A-A		2'-10 1/2" (867 mm)		3'-6" (1060 mm)
C-C	11" (282 mm)	8 1/2" (217 mm)	16" (410 mm)	15" (380 mm)

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE
MAIN LINE ID = 36" (900 mm) OR LARGER
STANDARD PLAN 320-2
SHEET 2 OF 4

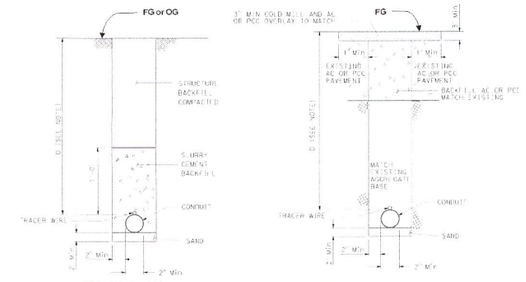
B. THE OUTSIDE DIAMETER OF THE LATERAL MUST BE LESS THAN OR EQUAL TO 1/2 THE INSIDE DIAMETER OF THE MAIN LINE. IF THE UPSTREAM AND DOWNSTREAM DIAMETERS OF THE MANHOLE ARE NOT THE SAME, THE GOVERNING INSIDE DIAMETER OF THE MAIN LINE SHALL BE CONSIDERED TO BE THAT WHERE THE EXTENDED CENTERLINE OF THE LATERAL ENTERS THE MANHOLE.
C. IN NO INSTANCE SHALL THE INSIDE DIAMETER OF THE LATERAL TO THE MANHOLE BE GREATER THAN 30" (750 mm).

13. MANHOLE FRAME AND COVER SHALL CONFORM TO SPPWC 630 UNLESS OTHERWISE SHOWN.
14. MANHOLE SHAFT SHALL CONFORM TO SPPWC 324 UNLESS OTHERWISE SHOWN.
15. WHERE A MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 326.
16. WHERE A PRESSURE MANHOLE SHAFT – WITH ECCENTRIC REDUCER IS SPECIFIED REFER TO SPPWC 328.
17. WHERE A PRESSURE MANHOLE SHAFT – 914 mm (36") WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 329.
18. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:
    324 MANHOLE SHAFT – WITH ECCENTRIC REDUCER
    326 MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER
    328 PRESSURE MANHOLE SHAFT – WITH ECCENTRIC
    329 PRESSURE MANHOLE SHAFT 36" (914 mm) WITHOUT REDUCER
    630 24" (610 mm) MANHOLE FRAME AND COVER
    633 36" (914 mm) MANHOLE FRAME AND COVER
    635 STEEL STEP
    636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
MANHOLE PIPE-TO-PIPE
MAIN LINE ID = 36" (900 mm) OR LARGER
STANDARD PLAN 320-2
SHEET 4 OF 4

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT TRENCH DETAIL
TR-0153(Rev. 11/2019) Page 1 of 2

TYPICAL TRENCH DETAIL (NOT TO SCALE)



Notes: D - Depth of cover as identified & approved based on submitted plans.

FG - Finish Grade.

OG - Original Ground.

STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENCROACHMENT PERMIT TRENCH DETAIL
TR-0153(Rev. 11/2019) Page 2 of 2

- **All work must be authorized by the encroachment permit, and/or as directed by the State's representative.**
- **A tracer wire must be placed on top of the conduit unless specified not to.**
- **Clearance between the trench wall and encroachment work less than 6 inches in width shall be a minimum of 2 inches. Clearance between the trench wall and encroachment work greater than 6 inches width shall be a minimum of 6 inches.**
- **When the trench width is less than 2' the backfill for subgrade must consist of either slurry cement or Controlled Low-Strength Material (CLSM).**
- **When trench width is greater than 2' compacted aggregate base may be used for backfill.**
- **Structure backfill must conform to Section 19-3.02C of the Standard Specifications.**
- **For trench located under unimproved surface, structure backfill can use the original soil. Soil must be compacted by mechanical means. Ponding, jetting or flooding are not allowed. Slurry cement backfill is optional at the discretion of the Caltrans District.**
- **Slurry cement backfill must conform to Section 19-3.02E of the Standard Specifications.**
- **Aggregate base shall conform to Section 26 of the Standard Specifications.**
- **CLSM must conform to Section 19-3.02G of the Standard Specifications. When CLSM is utilized the mix design and test results must be submitted to the State's representative. See Appendix H of the Encroachment Permits Manual for additional information.**
- **Cold planed surface and overlay shall be to the nearest lane line for the entire length of the trench/disturbed areas, and/or as directed by the State's representative.**
- **A paving notch ("T" Cut) shall be cold planed in exist asphalt concrete to a minimum width of 1.0' beyond each side of the trench and to a depth of 3" for the final layer of HMA.**
- **HMA or PCC to replace pavement section shall match existing pavement depth, unless directed otherwise by the State's representative.**
- **Hot mix asphalt must conform to Section 39 of the Standard Specifications.**
- **A tack coat of asphaltic emulsion conforming to Section 39-2.01C (3) (f) shall be applied.**
- **When the trench is within 4' of curb and gutter, additional cold planing may be required at the discretion of the State's representative.**
- **Pavement markings and/or striping removed or damaged during construction must be replaced as directed by the State's representative.**
- **Other trench related details are shown in Chapter 6 of the Encroachment Permits Manual as well as the Trenching and Shoring Manual. Both publications can be found on the State of California, Department of Transportation's website.**

811 Know what's below. Call 811 before you dig.

CITY OF CHINO
RECOMMENDED BY: _____ CITY ENGINEER 8/8/22 DATE

CITY OF ONTARIO
RECOMMENDED BY: _____ BRIAN LIRLEY, P.E., ASSISTANT CITY ENGINEER 7/28/22 DATE
ACCEPTED BY: _____ for KHOI DO, P.E., CITY ENGINEER 7/28/22 DATE

BENCH MARK No. GG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB, APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER SIARA REZE MACKINNEY No.85559 Exp. 9/30/2022 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. 85559 R.C.E. NO. 6/22/22 DATE

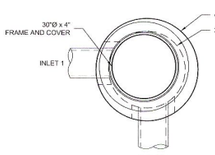
REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK DATE: 04/26/2022
DRAWN BY: PK/BK DATE: 04/26/2022
CHECKED BY: DATE:

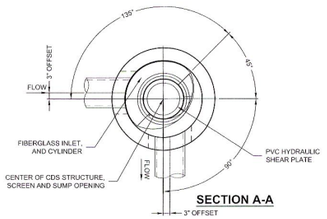
STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

CALTRANS # 08-22-6-UT-0007
PM-20016
SHEET 20 OF 21
CONTRACT _____
ACCOUNT _____
DWG. NO. AA 59493D
D14584 06/03/2022

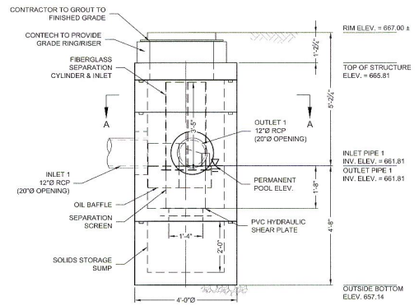
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Last Opened: Jun 03, 2022 - 4:06pm by: Brent.King



PLAN VIEW



SECTION A-A



ELEVATION VIEW

MATERIAL LIST (PROVIDED BY CONTECH)

COUNT	DESCRIPTION	INSTALLED BY
1	FIBERGLASS INLET AND CYLINDER	CONTECH
1	4700 micron, 1.5' O.D. x 1.5' SEP. SCREEN	CONTECH
1	3/16 INCH PVC HYDRAULIC SHEAR PLATE *	CONTECH
1	SEALANT FOR JOINTS	CONTRACTOR
1 PLC	GRADE RINGS/RISERS	CONTRACTOR
1	30"Ø x 4" FRAME & COVER, EJ#0018101119A01, OR EQUIV.	CONTRACTOR

* SEE HYDRAULIC SHEAR PLATE DETAIL

GENERAL NOTES
1. CONTECH TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR FABRICATION DRAWINGS WITH DETAILED STRUCTURE DIMENSIONS AND WEIGHT, PLEASE CONTACT YOUR CONTECH ENGINEERED SOLUTIONS LLC REPRESENTATIVE. www.ContechES.com
3. CDS WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING. CONTRACTOR TO CONFIRM STRUCTURE MEETS REQUIREMENTS OF PROJECT.
4. STRUCTURE SHALL MEET AASHTO HS-20 LOAD RATING, ASSUMING EARTH COVER OF 0' - 2', AND GROUNDWATER ELEVATION AT, OR BELOW, THE OUTLET PIPE INVERT ELEVATION. ENGINEER OF RECORD TO CONFIRM ACTUAL GROUNDWATER ELEVATION. CASTINGS SHALL MEET AASHTO M306 AND BE CAST WITH THE CONTECH LOGO.
5. IF REQUIRED, PVC HYDRAULIC SHEAR PLATE IS PLACED ON SHELF AT BOTTOM OF SCREEN CYLINDER. REMOVE AND REPLACE AS NECESSARY DURING MAINTENANCE CLEANING.
6. CDS STRUCTURE SHALL BE PRECAST CONCRETE CONFORMING TO ASTM C-478 AND AASHTO LOAD FACTOR DESIGN METHOD.

INSTALLATION NOTES
A. ANY SUB-BASE, BACKFILL DEPTH, AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CDS MANHOLE STRUCTURE.
C. CONTRACTOR TO INSTALL JOINT SEALANT BETWEEN ALL STRUCTURE SECTIONS AND ASSEMBLE STRUCTURE.
D. CONTRACTOR TO PROVIDE, INSTALL, AND GROUT INLET AND OUTLET PIPE(S). MATCH PIPE INVERTS WITH ELEVATIONS SHOWN. ALL PIPE CENTERLINES TO MATCH PIPE OPENING CENTERLINES.
E. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO ASSURE UNIT IS WATER TIGHT, HOLDING WATER TO FLOWLINE INVERT MINIMUM. IT IS SUGGESTED THAT ALL JOINTS BELOW PIPE INVERTS ARE GROUTED.

STRUCTURE WEIGHT
APPROXIMATE HEAVIEST PICK = 4000 LBS.
STRUCTURE IS DELIVERED IN 4 PIECES

MAX FOOTPRINT = Ø4'

CONTECH
CONTRACT
DRAWING

CDS1515-3-C - 686090-10
MERRILL AVE
ONTARIO, CA
###

CONTECH ENGINEERED SOLUTIONS LLC
800.925.5240 513.645.7000 513.645.7993 FAX
9025 Centre Pointe Drive, Suite 400, West Chester, OH 45069
www.ContechES.com

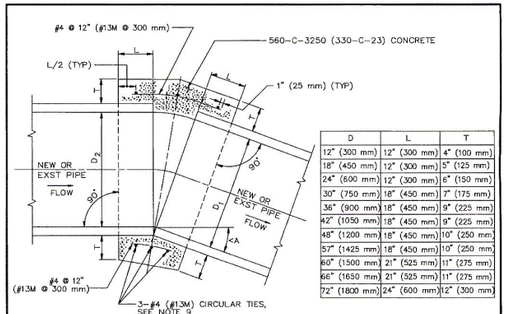
CDS

DATE: 08/16/21 | SCALE: 3/8" = 1'-0"
DESIGNED: RLH | DRAWN: RLH
CHECKED: ### | APPROVED: ###
PROJECT No.: 686090 | SEQUENCE No.: 10
SHEET: 1 OF 1

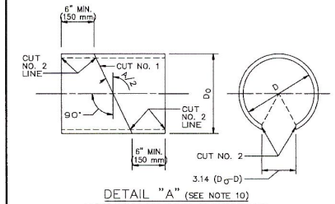
PREC5
LAYOUT 4A
1515-3-FGS
5850 / 453627

BY	REVISION DESCRIPTION	DATE	MARK

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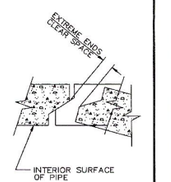


D	L	T
12" (300 mm)	12" (300 mm)	4" (100 mm)
18" (450 mm)	12" (300 mm)	5" (125 mm)
24" (600 mm)	12" (300 mm)	6" (150 mm)
30" (750 mm)	18" (450 mm)	7" (175 mm)
36" (900 mm)	18" (450 mm)	9" (225 mm)
42" (1050 mm)	18" (450 mm)	9" (225 mm)
48" (1200 mm)	18" (450 mm)	10" (250 mm)
57" (1425 mm)	18" (450 mm)	10" (250 mm)
60" (1500 mm)	21" (525 mm)	11" (275 mm)
66" (1650 mm)	21" (525 mm)	11" (275 mm)
72" (1800 mm)	24" (600 mm)	12" (300 mm)



DETAIL "A" (SEE NOTE 10)
SONO-TUBE, OR EQUAL, INTERIOR FORM

CUT NO. 1: SAW THE TUBE AT AN ANGLE OF A/2 WITH THE TRANSVERSE PLANE. REVERSE ONE SECTION AND TAPE BOTH SECTIONS TOGETHER FORMING THE DEFLECTION ANGLE A.
CUT NO. 2: SAW THE TUBE LONGITUDINALLY REMOVING A STRIP 3.14 (D_2-D) WIDE ON THE SIDE OPPOSITE THE OPEN JOINT. BEND THE ENDS OF THE CUT TOGETHER AND INSERT THE TUBE IN THE PIPE.



DETAIL "B"
TYPICAL JOINT FOR
REINFORCED CONCRETE PIPE

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE REV. 1996, 1997, 1999, 2009	CONCRETE COLLAR FOR RCB 12" (300 mm) THROUGH 72" (1800 mm)	STANDARD PLAN 380-4
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES

1. A CONCRETE COLLAR IS REQUIRED WHERE THE CHANGE IN GRADE EXCEEDS 10%.
2. FOR CURVE JOINTS (SEE DETAIL B, SHEET 1)
   IF THE EXTREME ENDS OF THE PIPE LEAVE A CLEAR SPACE THAT IS GREATER THAN 1" (25 mm), BUT IS LESS THAN 3" (75 mm) A CONCRETE COVER IS REQUIRED IN ACCORDANCE WITH SSPWC 306-1.2.4.
   IF THE EXTREME ENDS OF THE PIPE LEAVE A CLEAR SPACE THAT IS EQUAL TO OR GREATER THAN 3" (75 mm), BUT LESS THAN 6" (150 mm), A CONCRETE COLLAR IS REQUIRED. IF THE CLEAR SPACE IS 6" (150 mm) OR GREATER, A TRANSITION STRUCTURE IS REQUIRED.
3. CONCRETE COLLAR SHALL NOT BE USED FOR A SIZE CHANGE ON THE MAIN LINE.
4. CONNECTOR PIPES
   A. WHERE PIPES OF DIFFERENT DIAMETERS ARE JOINED WITH A CONCRETE COLLAR, L AND T SHALL BE THOSE OF THE LARGER PIPE. D=D_1 OR D_2, WHICHEVER IS GREATER.
   B. WHEN D_1 IS EQUAL TO OR LESS THAN D_2, JOIN INVERTS AND WHEN D_1 IS GREATER THAN D_2, JOIN SOFFITS.
5. FOR PIPE LARGER THAN 72" (1800 mm) SPECIAL COLLAR DETAILS ARE REQUIRED.
6. FOR PIPE SIZE NOT LISTED USE NEXT SIZE LARGER.
7. REINFORCEMENT SHALL CONFORM TO ASTM A 615 (A 615 M) GRADE 40 (300).
8. WHERE REINFORCING IS REQUIRED THE DIAMETER OF THE CIRCULAR TIES SHALL BE D+(2X WALL THICKNESS) + T.
9. REINFORCING SHALL BE USED WHERE THE PIPE DIAMETER IS GREATER THAN 21" (525 mm) AND ON ALL PIPES WHERE THE SPACES BETWEEN THE EXTREME OUTER ENDS IS 3" (75 mm) OR LARGER.

CIRCULAR TIES:

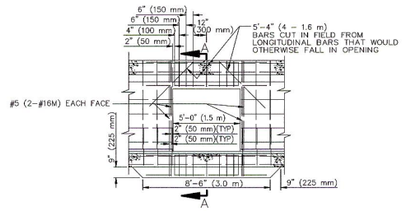
PIPE DIAMETER	NO. OF CIRCULAR TIES
21" (525 mm) OR LESS	3
24" (600 mm) TO 30" (750 mm)	3
33" (825 mm) TO 57" (1425 mm)	4
60" (1500 mm) TO 72" (1800 mm)	5

WHERE THE SPACE BETWEEN PIPE ENDS EXCEEDS 3" (75 mm), THE NUMBER OF CIRCULAR TIES SHALL BE INCREASED TO MAINTAIN AN APPROXIMATE SPACING OF 6" (150 mm) O.C.

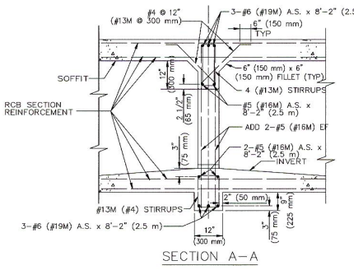
10. WHERE THE PIPE IS 21" (525 mm) OR LESS IN DIAMETER AN INTERIOR FORM OF UNSEALED SONO-TUBE OR EQUAL SHALL BE USED TO PROVIDE A SMOOTH INTERIOR JOINT. THE PAPER FORM MAY BE LEFT IN PLACE (SEE DETAIL A). WHEN THE PIPE IS 24" (600 mm) OR LARGER A REMOVABLE INTERIOR FORM SHALL BE USED OR THE INTERIOR JOINT SHALL BE COMPLETELY FILLED WITH MORTAR AND NEATLY POINTED.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
CONCRETE COLLAR FOR RCB 12" (300 mm) THROUGH 72" (1800 mm)	380-4
	SHEET 2 OF 2

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1964 REV. 1996, 2009	WINDOW DETAILS FOR MULTIPLE RCB STRUCTURES	STANDARD PLAN 382-2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2



ELEVATION



SECTION A-A

NOTES

1. THIS STRUCTURE MAY BE USED WHERE:
   a. DEPTH OF COVER DOES NOT EXCEED 10' (3.0 m).
   b. CLEAR SPAN OF ONE BARREL DOES NOT EXCEED 12' (3.6 m). WHEN THESE LIMITS ARE EXCEEDED, WINDOW OPENING DETAILS SHALL BE AS SHOWN ON PLANS.
2. LONGITUDINAL BARS SHALL BE CUT IN THE FIELD 2" (50 mm) FROM OPENING.
3. ROUND ALL EDGES TO 2" (50 mm) RADIUS.
4. NO TRANSVERSE CONSTRUCTION JOINT SHALL BE PLACED WITHIN 5'-0" (1.5 m) OF WINDOW.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN
WINDOW DETAILS FOR MULTIPLE RCB STRUCTURES	382-2
	SHEET 2 OF 2

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: PK/BK
DATE: 04/26/2022
DRAWN BY: PK/BK
DATE: 04/26/2022
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE 7/14/22
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER for — DATE 7/18/22

BENCH MARK No. CG-18-1
ELEV. 635.314' (NAVD '88) LEVELED 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO GG-18-1." SET ON TOP OF CURB. APPROX 5' +/- SOUTH OF ECR @ THE NORTHEAST RETURN OF EUCLID AVE. AND MERRILL AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA REE MACKINNEY — No.85559 Exp. 9/30/2022 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660
SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 — DATE 6/22/22

STORM DRAIN IMPROVEMENT PLAN
EUCLID AVENUE
DETAILS

PM-20016

SHEET 21 OF 21
CONTRACT
ACCOUNT
DWG. NO. AA 5949 SD

CALTRANS # 08-22-6-UT-0007

D14505 06/03/2022

Drawing Name: P:\Year-2020\2020-015 REDA Phase II Final Engineering\05 Engineering\Sheets\XFF-SITE\STORM DRAIN EUCLID\V1_21_2020-015_SD_DET.dwg
Last Opened: Jun 03, 2022 - 4:01pm by Brent.King

EXCERPT D: **STORM DRAIN IMPROVEMENT PLAN FOR PM-20714 SCHAEFER AVENUE FROM EUCLID AVENUE TO SULTANA AVENUE**

STORM DRAIN IMPROVEMENT PLAN

FOR PM 20714
SCHAEFER AVENUE
FROM EUCLID AVENUE TO SULTANA AVENUE
IN THE CITY OF ONTARIO

CITY OF ONTARIO GENERAL NOTES:

1. ALL WORK SHALL BE DONE IN STRICT CONFORMANCE WITH THE CURRENT CITY OF ONTARIO STANDARD SPECIFICATIONS AND STANDARD DRAWINGS AND CURRENT STANDARD SPECIFICATIONS AND STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION AND CALTRANS PERMIT UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
2. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE HIMSELF/HERSELF WITH THE SITE AND SHALL BE SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY OR INDIRECTLY FROM HIS/HER OPERATIONS, WHETHER OR NOT THE FACILITY IS SHOWN ON THESE PLANS.
3. ALL OBSTRUCTIONS WITHIN THE AREA TO BE IMPROVED SHALL BE REMOVED AND/OR RELOCATED AT THE DIRECTION OF THE CITY ENGINEER. UTILITIES ARE TO BE RELOCATED BY THEIR RESPECTIVE OWNERS UNLESS NOTED OTHERWISE. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
4. UTILITY LINE LOCATIONS WERE TAKEN FROM AVAILABLE RECORD DATA AND WERE NOT LOCATED IN THE FIELD, UNLESS OTHERWISE NOTED ON THE PLAN. THE CONTRACTOR IS REFERRED TO SECTION 5 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
5. IN CASE OF ANY ACCIDENTS INVOLVING SAFETY MATTERS COVERED BY SECTION 6409(B) OF THE CALIFORNIA LABOR CODE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE STATE DIVISION OF INDUSTRIAL SAFETY.
6. STATE LAW (SB 3019) REQUIRES THE CONTRACTOR TO CONTACT UNDERGROUND SERVICE ALERT AND OBTAIN AN IDENTIFICATION NUMBER PRIOR TO THE ISSUANCE OF CITY'S ENCROACHMENT PERMITS. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT AT 1-800-422-4133 A MINIMUM OF 48-HOURS IN ADVANCE OF ANY CONSTRUCTION ACTIVITY.
7. PRIOR TO THE START OF ANY WORK THE CONTRACTOR SHALL OBTAIN A BUSINESS LICENSE FROM THE CITY OF ONTARIO. THE CONTRACTOR SHALL OBTAIN AN ENCROACHMENT PERMIT FROM THE ENGINEERING DEPARTMENT NO LESS THAN 48 HOURS PRIOR TO START OF ANY CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY.
8. THE CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT 48 HOURS PRIOR TO TIME OF CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY. THE CONTRACTOR IS REFERRED TO SECTION 7-10.3 OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
9. THE CONTRACTOR SHALL RENEW OR REPLACE ANY EXISTING TRAFFIC STRIPING AND/OR PAVEMENT MARKINGS, WHICH DURING HIS OPERATIONS HAVE BEEN EITHER REMOVED OR THE EFFECTIVENESS OF WHICH HAS BEEN REDUCED. RENEWAL OF TRAFFIC STRIPING AND MARKINGS SHALL BE DONE USING REFLECTIVE THERMO-PLASTIC MARKINGS IN CONFORMANCE WITH SECTION 84 & 85 OF THE CALTRANS STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. ALL REGULATORY, WARNING, AND GUIDE SIGNS SHALL HAVE 3M DIAMOND, VIP GRADE SHEETING WITH SERIES 1160 PROTECTIVE OVERLAY FILM.
10. THE LAND SURVEYORS ACT, SECTION 8771 OF THE BUSINESS & PROFESSIONAL CODE, AND SECTIONS 732.5, 1492-5, 1810-5 OF THE STREETS AND HIGHWAY CODE REQUIRE THAT SURVEY MONUMENTS SHALL BE PROTECTED AND PERPETUATED.

    "IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER OR OTHERS PERFORMING THE CONSTRUCTION WORK TO RETAIN A QUALIFIED REGISTERED CIVIL ENGINEER AND/OR LICENSED LAND SURVEYOR PRIOR TO THE START OF CONSTRUCTION TO LOCATE, REFERENCE AND FILE THE NECESSARY CORNER RECORDS WITH THE COUNTY SURVEYOR'S OFFICE FOR SURVEY CONTROL POINTS/MONUMENTS THAT EXIST AS SHOWN ON RECORDED TRACT MAPS, PARCEL MAPS, RECORDS OF SURVEYS AND HIGHWAY MAPS, AND MAY BE DISTRIBUTED OR DAMAGED BY THE PROPOSED CONSTRUCTION"

    AFTER THE COMPLETION OF THE PROPOSED CONSTRUCTION, SAID MONUMENTS AND/OR CONTROL SURVEY POINTS SHALL BE RESET TO THE NEW SURFACE IN ACCORDANCE WITH THE CURRENT PROFESSIONAL LAND SURVEYING PRACTICES. CORNER RECORDS SHALL BE FILED WITH THE COUNTY SURVEYOR FOR ALL THE NEW MONUMENTS SET.
11. THE DEVELOPER SHALL PROVIDE THE CITY WITH A COMPLETED SET OF "AS BUILT", MYLAR DRAWINGS PRIOR TO THE FINAL INSPECTION.
12. A CITY ACCEPTED/APPROVED SET OF PLANS SHALL BE KEPT ON THE JOB SITE AT ALL TIMES.
13. A PRE-CONSTRUCTION MEETING SHALL OCCUR PRIOR TO CONSTRUCTION. ATTENDEES SHALL INCLUDE A CITY REPRESENTATIVE AND THE CONTRACTOR WHO WILL PERFORM THE WORK. "CUT-SHEETS" SHALL BE PROVIDED TO THE CITY AT THIS MEETING FOR ITS REVIEW.
14. CITY ACCEPTANCE OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM RESPONSIBILITY FOR THE CORRECTION OF ERROR AND OMISSION DISCOVERED DURING CONSTRUCTION. UPON REQUEST OF THE CITY INSPECTOR, THE REQUIRED PLAN REVISIONS SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER FOR REVIEW.
15. ANY REQUIRED RIGHT-OF-WAY OR EASEMENT SHALL BE DEDICATED TO AND ACCEPTED BY THE CITY PRIOR TO COMMENCEMENT OF CONSTRUCTION OF THE IMPROVEMENTS WITHIN THE REQUIRED RIGHT-OF-WAY OR EASEMENT.
16. WHERE UTILITIES NEED TO BE SUPPORTED, SAID SUPPORTS SHALL BE IN ACCORDANCE WITH A.P.W.A. STANDARD 224-1 UNLESS OTHERWISE INDICATED.
17. PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF EXISTING SEWER MAIN(S) AND NOTIFY THE DESIGN ENGINEER OF ANY VARIATION FROM DESIGN.
18. THE PIPE SHOWN HEREON SHALL BE INSTALLED IN ACCORDANCE WITH CASE III BEDDING AS SHOWN ON L.A.C.D.P.W. STANDARD 3080-2, UNLESS OTHERWISE SHOWN. "W" VALUE SHALL BE AS SPECIFIED ON L.A.C.D.P.W. STANDARD 3080-2 FOR CASE III BEDDING, NOTES 3 (A), 3 (B), AND 3 (C). IF THE "W" VALUE AT THE TOP OF THE PIPE IS EXCEEDED, THE BEDDING SHALL BE MODIFIED AND/OR PIPE OF ADDITIONAL STRENGTH SHALL BE PROVIDED. ALL PROPOSED MODIFICATIONS TO THIS REQUIREMENT SHALL BE APPROVED BY THE CITY ENGINEER.
19. MINIMUM COVER OF STORM DRAIN MAIN SHALL BE 7 FEET FROM THE FINISHED SURFACE PER STANDARD DRAWING 1302-1304.
20. STORM DRAIN MAIN STATIONING IS PER PIPE CENTERLINE.
21. STREET CENTERLINE STATIONING IS PER THE STREET IMPROVEMENT PLANS AND PROVIDED FOR REFERENCE.
22. CONTRACTOR SHALL NOT BACKFILL TRENCH UNTIL THE CITY INSPECTOR HAS OBTAINED AS-BUILT STATIONING ON ALL STRUCTURES.
23. UPON COMPLETION OF CONSTRUCTION OF ALL STORM DRAIN LINES AND PRIOR TO PAVING, THE DEVELOPER SHALL HIRE A CITY APPROVED VIDEO COMPANY TO VIDEO TAPE THE PIPELINES. CITY SHALL REVIEW SAID VIDEOTAPES FOR POTENTIAL CONSTRUCTION DEFECTS PRIOR TO ACCEPTANCE OF THE PROJECT.

UTILITY PURVEYORS:

CITY OF ONTARIO, MUNICIPAL UTILITIES AGENCY
DAYTIME PH: (909) 395-2678
24-HOUR EMERGENCY: (909) 986-6711

CITY OF ONTARIO, COMMUNITY & PUBLIC SERVICES AGENCY
DAYTIME PH: (909) 395-2633
24-HOUR EMERGENCY: (909) 986-6711

INLAND EMPIRE UTILITY AGENCY
DAYTIME PH: (909) 944-6000
24-HOUR EMERGENCY: (909) 987-2591

SOUTHERN CALIFORNIA EDISON
24-HOUR EMERGENCY: (800) 611-1911

SOUTHERN CALIFORNIA GAS COMPANY
DAYTIME PH: (800) 423-1391
24-HOUR EMERGENCY: (800) 423-1391

TIME WARNER CABLE / WEST COAST COMMUNICATIONS
24-HOUR EMERGENCY: (888) 892-2253

VERIZON
24-HOUR EMERGENCY: (800) 483-2000

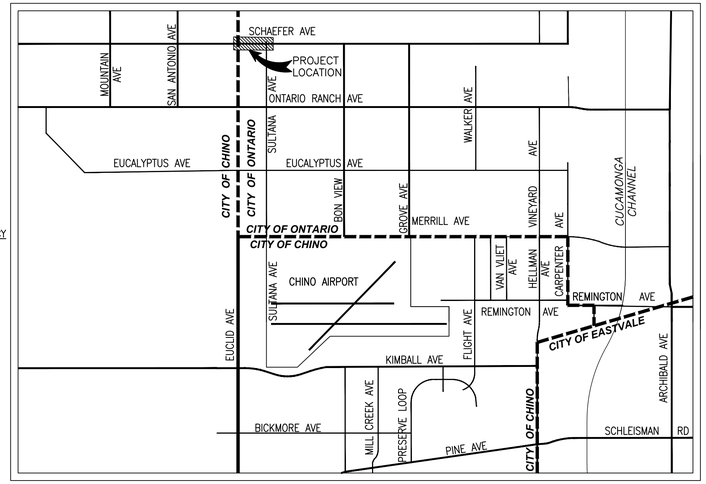
LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE CITY OF ONTARIO IN THE COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA, AND IS DESCRIBED AS FOLLOWS:

LOTS 1, 2, 3, 16, 17, 18, 20, 21 AND 35 OF SECTION 18, TOWNSHIP 2 SOUTH, RANGE 7 WEST, SAN BERNARDINO BASE AND MERIDIAN, ACCORDING TO MAP OF SUBDIVISION OF PART OF RANCHO SANTA ANA DEL CHINO, AS PER PLAT RECORDED IN BOOK 6, PAGE 15, OF MAPS, RECORDS OF SAID COUNTY.

BASIS OF BEARING

THE BASIS OF BEARINGS FOR THIS SURVEY IS THE CALIFORNIA STATE PLANE COORDINATE SYSTEM (CCS83), ZONE 5, NORTH AMERICAN DATUM 1983 (NAD83) BASED LOCALLY ON CONTINUOUSLY OPERATING REFERENCE STATIONS (CORS) "LORS" AND "EWPP" (BASIS OF BEARINGS: S 81°29'26 E).



VICINITY MAP

N.T.S.

INDEX OF DRAWINGS

INDEX NO.	DESCRIPTION
SHEET 1	TITLE SHEET
SHEET 2	SHEET INDEX AND TYPICAL SECTIONS
SHEET 3	SCHAEFER AVENUE – FROM EUCLID AVE TO 825' EAST OF EUCLID AVE
SHEET 4	SCHAEFER AVENUE – FROM 825' EAST OF EUCLID AVE TO SULTANA AVE
SHEET 5	LATERAL PROFILES
SHEET 6	CDS DETAILS
SHEET 7-8	DETAILS

CONSTRUCTION NOTES

ITEM	DESCRIPTION	QUANTITY	
1	CONSTRUCT 90" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.	399	LF
2	CONSTRUCT 72" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.	1,010	LF
3	CONSTRUCT 48" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.	73	LF
4	CONSTRUCT 24" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.	92	LF
5	CONSTRUCT 18" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.	218	LF
6	CONSTRUCT CATCH BASIN NO.2 PER CITY OF ONTARIO STD. DWG. 3003. "W" AND "V" PER PLAN	2	EA
7	CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. 3005. REFER TO PERMIT PM 20714 STREET IMPROVEMENT PLANS FOR DETAILS.	2	EA
8	CONSTRUCT STORM DRAIN MANHOLE PER SPPWC STD. 320-2, DETAIL ON SHEET 8	4	EA
9	CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 331-3, DETAIL ON SHEET 8	2	EA
10	CONSTRUCT BRICK AND MORTAR BULKHEAD PER DETAIL 10 ON SHEET 7	1	EA
11	CONSTRUCT 36" TEMPORARY CSP STANDPIPE (14 GUAGE) PER DETAIL 11 ON SHEET 6	5	EA
12	CONSTRUCT MANHOLE SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 7	2	EA
13	INSTALL TEMPORARY CONCRETE BOTTOM TO CATCH BASIN, PER DETAIL 13 ON SHEET 7	2	EA
14	CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE PER DETAIL 14 ON SHEET 7	2	EA
15	INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO OCEAN" OR EQUIVALENT	2	EA
16	CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2 PER DETAIL ON SHEET 8	2	EA
17	CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 332-2, CASE 1, DETAIL ON SHEET 7	5	EA
18	REMOVE BRICK AND MORTAR PLUG	1	EA
19	CONSTRUCT 12" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.	184	LF

OWNER/DEVELOPER:

DISTINGUISHED HOMES

CONTACT: JASON LEE
PHONE: (14) 412-9263

CIVIL ENGINEER

WESTLAND GROUP INC.
4150 CONCOURS STREET, SUITE 100
ONTARIO, CA 91764

CONTACT: SIARA R. MACKINNEY, P.E.
PHONE: (909)-403-5647

GEOTECHNICAL ENGINEER:

CONVERSE CONSULTANTS
2021 RANCHO DRIVE, SUITE 1
REDLANDS, CA 92373

CONTACT: HASHMI S. E. QUAZI
PHONE: (909) 796-0544

REFERENCE DRAWINGS

DESCRIPTION	REFERENCE
PROPOSED 8" RECYCLED WATER AT SCHAEFER AVE	PM 20714 RECYCLED WATER IMPROVEMENT
PROPOSED 12" DOMESTIC WATER AT SCHAEFER AVE	PM 20714 DOMESTIC WATER IMPROVEMENT PLAN
PROPOSED 90" STORM DRAIN AT EUCLID AVE	PM 20714 STORM DRAIN IMPROVEMENT PLAN
EXISTING 16" & 18" DOMESTIC WATER AT SCHAEFER AVE	CB 1860-1863 WATER IMPROVEMENT PLAN

HYDROLOGY LEGEND

Q_{ULT-O} = PEAK FLOW RATE BASED ON THE CITY OF ONTARIO MPD
NOTE:
THE CITY OF ONTARIO: Q_{ULT-O}=234.50 FT^3/S
Q_{ULT-O}=121.20 FT^3/S
Q_{ULT-O}=34.50 FT^3/S

Q_{INTERM} = PEAK FLOW RATE BASED ON CURRENT LAND COVER.

NOTE:
THE CITY OF ONTARIO: Q_{INTERM}=94.38 FT^3/S
Q_{INTERM}=48.78 FT^3/S
Q_{INTERM}=13.89 FT^3/S

H_{ULT-O} BASED ON CITY OF ONTARIO Q_{ULT}

$V_{ULT-100}$ = FOUND USING $Q_{ULT-100}$.
$V_{INT-100}$ = FOUND USING $Q_{INT-100}$.

LEGEND OF ABBREVIATIONS

BC	BEGIN CURVE	LT	LEFT
BCR	BEGIN CURB RETURN	LP	LOW POINT
BNDY	BOUNDARY	MIN	MINIMUM
C+G	CURB AND GUTTER	PCC	POINT OF COMPOUND CURVE
CB	CATCH BASIN	℄ OR P/L OR PL	PROPERTY LINE
CFS	CUBIC FEET PER SECOND	PRC	POINT OF REVERSE CURVE
℄ OR C/L OR CL	CENTERLINE	PVC	POLYVINYL CHLORIDE
DBL	DOUBLE	RCB	REINFORCED CONCRETE BOX
DW	DOMESTIC WATER	RCP	REINFORCED CONCRETE PIPE
EC	END CURVE	RT	RIGHT
ECR	END CURB RETURN	RW	RECYCLED WATER
EP	EDGE OF PAVEMENT	R/W	RIGHT OF WAY
ESMT	EASEMENT	SD	STORM DRAIN
EX, EXIST.	EXISTING	SL	STREET LIGHT
FH	FIRE HYDRANT	SP	STAND PIPE (RCP)
FL	FLOW LINE	SS	SANITARY SEWER
FS	FINISHED SURFACE	SPPWC	STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION
FT/S	FEET PER SECOND	STA	STATION
GB	GRADE BREAK	TC	TOP OF CURB
HDPE	HIGH DENSITY POLY ETHYLENE	TYP	TYPICAL
HP	HIGH POINT	ULT	ULTIMATE
INT	INTERIM		
INV	INVERT		

LEGEND OF SYMBOLS

(100)	EXISTING CONTOURS		PROPOSED STORM DRAIN MH
100	PROP. CONTOUR		PROPOSED CATCH BASIN
	EXIST. EASEMENT		PROPOSED STORM DRAIN
2%	FLOW RATE		BOUNDARY LINE
	CENTERLINE		FENCE LINE
	FIRE HYDRANT		STREET LIGHT
	SIGN		

CIVIL ENGINEERS NOTICE TO CONTRACTOR

1. THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES OR STRUCTURES SHOWN ON THE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF MY KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTION AND ANY MEASURES TO PROTECT THE UTILITIES AND STRUCTURES SHOWN AND OTHER LINES OR STRUCTURES NOT OF RECORD OR NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO, THESE UTILITY LINES OR STRUCTURES.
2. THE CONTRACTOR AGREES THAT HE WILL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY AND NOT BE LIMITED TO A NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER, OR ANY PUBLIC AGENCY.
3. THE ESTIMATES OF IMPROVEMENT QUANTITIES AS SHOWN HEREON ARE PROVIDED ONLY FOR THE PURPOSE OF SATISFYING DISTRICT PLAN INFORMATION REQUIREMENTS. THE CONTRACTOR SHALL PERFORM AN INDEPENDENT ESTIMATE OF ALL IMPROVEMENT QUANTITIES AND SHALL USE SAME AS A BASIS FOR HIS BID(S) AND CONTRACT(S).
4. CONTRACTOR TO VERIFY CLEARANCE AT ALL UTILITY CROSSINGS. IF INTERFERENCE OCCURS, OTHER THAN NOTED ON PLAN, CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER FOR POSSIBLE REDESIGN. IF REDESIGN IS NOT FEASIBLE, CONTRACTOR TO RELOCATE UTILITY AT NO EXPENSE TO ENGINEER.
5. CONTRACTOR SHALL TAKE EXTREME CARE DURING STORM DRAIN CONSTRUCTION AND IS RESPONSIBLE FOR TRENCHING AND SHORING. CONTRACTOR SHALL SUBMIT A DETAILED SHORING PLAN PER SECTION 7-10.4.2.2 OF SPPWC AND A PERMIT FROM STATE DIVISION OF INDUSTRIAL SAFETY PRIOR TO COMMENCING WORK.
6. CONTRACTOR SHALL VERIFY PAVEMENT ELEVATION AT RIM PRIOR TO SETTING CONE.

811 Know what's below. Call 811 before you dig.

RECOMMENDED FOR ACCEPTANCE

TECK, C. LOH, P.E.
HARRIS AND ASSOCIATES

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: WLG
DATE: 5/31/2023
DRAWN BY: WLG
DATE: 5/31/2023
CHECKED BY:
DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE

BENCH MARK No. CC-18-1
ELEV. 688.825' (NAVD '88) LEVEL RUN 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO CC-18-1." SET ON MOC OF THE HCR CURB @ THE SOUTHEAST RETURN OF EDISON AVE. AND EUCLID AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA ROSE MACKINNEY — No. 85559 Exp. 9/30/2024 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 5/31/2023 DATE

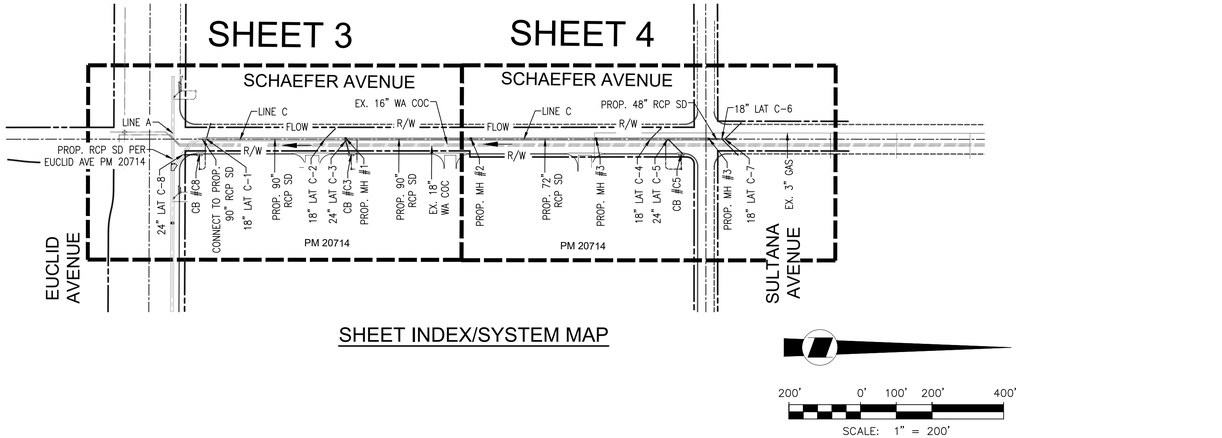
STORM DRAIN IMPROVEMENT PLAN (PUBLIC)
SCHAEFER AVENUE
TITLE SHEET

PM-20714

SHEET 1 OF 8
CONTRACT
ACCOUNT
DWG. NO.

05/31/2023

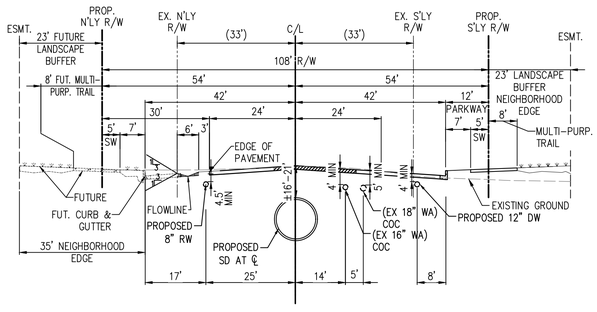
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Last Opened: May 31, 2023 - 1:04pm by: Jose



SHEET INDEX/SYSTEM MAP

200' 0' 100' 200' 400'

SCALE: 1" = 200'



TYPICAL UTILITY SECTION

SCHAEFER AVENUE

STA 16+47.17 TO STA 31+37.70

STREET STATIONING

N.T.S.

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO

DESIGNED BY: WLG
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DRAWN BY: WLG
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REGISTERED PROFESSIONAL ENGINEER — SIARA REE MACKINNEY — No.85559 Exp. 9/30/2024 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 5/31/2023 DATE

STORM DRAIN IMPROVEMENT PLAN (PUBLIC)

SCHAEFER AVENUE

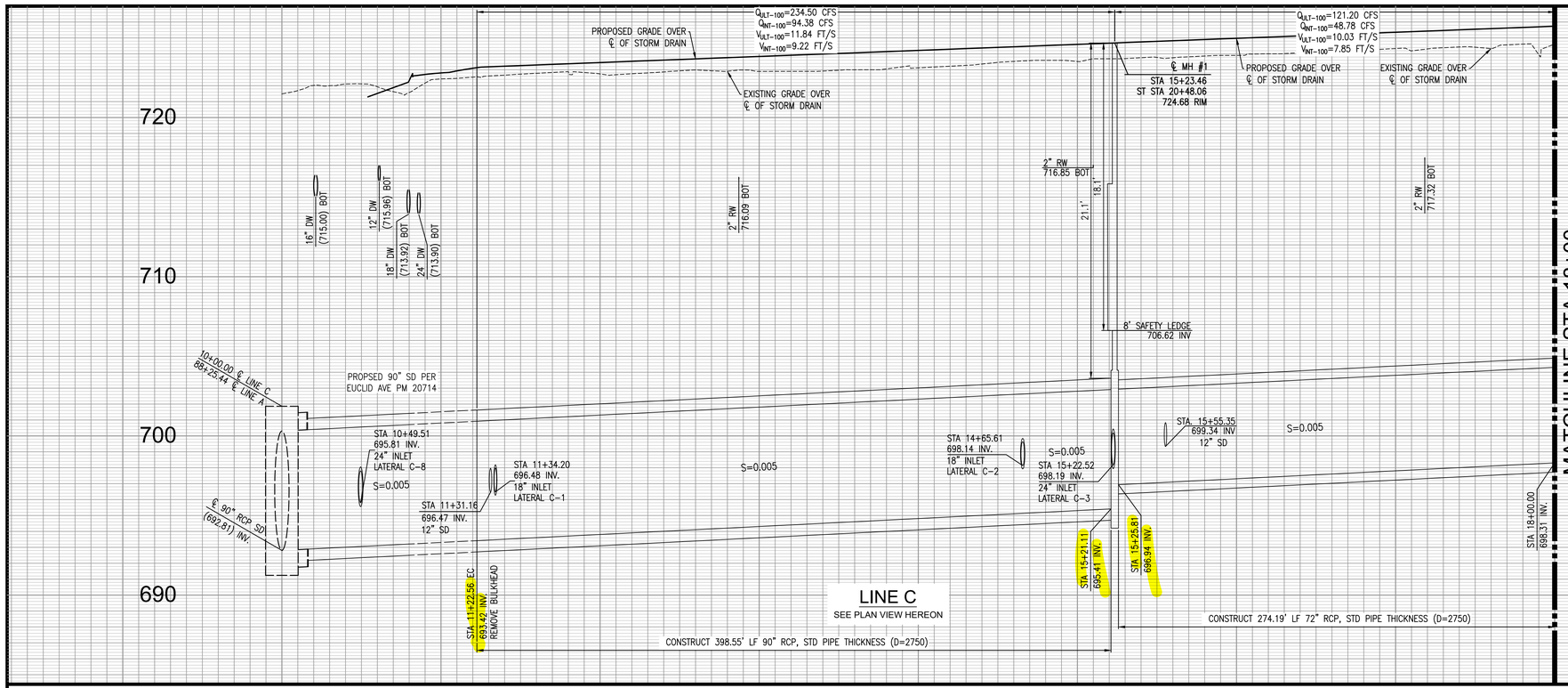
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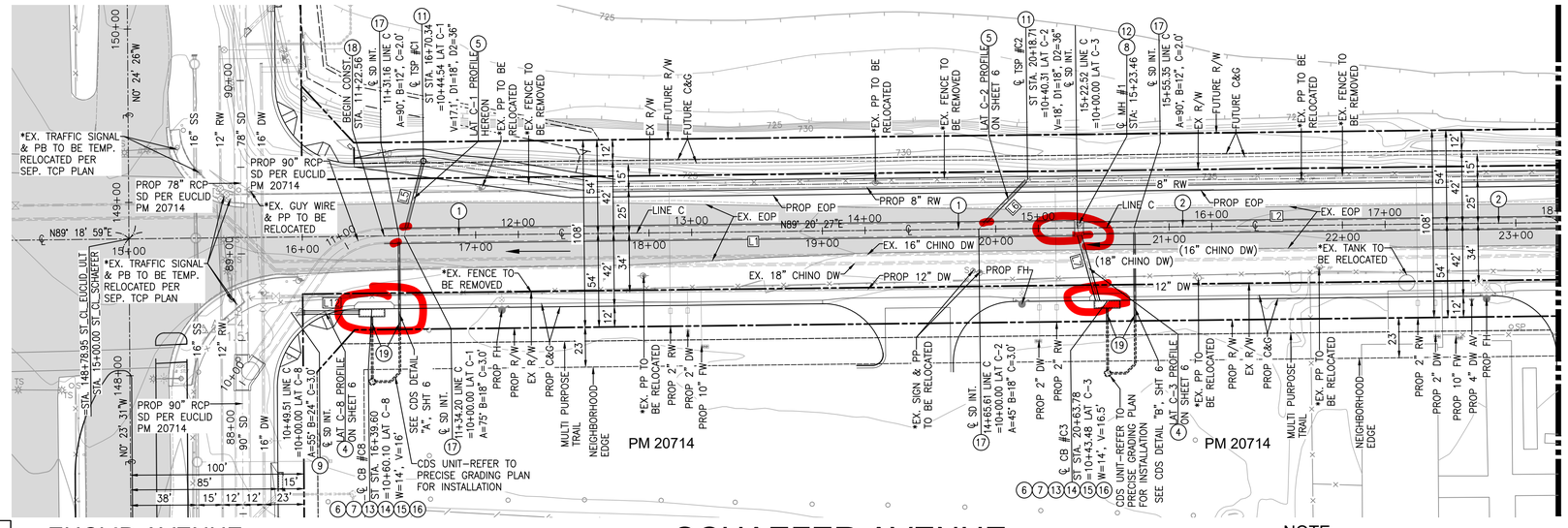
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SHEET 2 OF 8
CONTRACT
ACCOUNT
DWG. NO.

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Last Opened: May 31, 2023 - 1:04pm by: Jose

05/31/2023





CONSTRUCTION NOTES

1. CONSTRUCT 90" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.
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12. CONSTRUCT MANHOLE SAFETY LEDGE PER SPPWC 330-2, DETAIL ON SHEET 7
13. INSTALL TEMPORARY CONCRETE BOTTOM TO CATCH BASIN, PER DETAIL 13 ON SHEET 7
14. CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE PER DETAIL 14 ON SHEET 7
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16. CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2 PER DETAIL ON SHEET 8
17. CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 332-2, CASE 1, DETAIL ON SHEET 7
18. REMOVE BRICK AND MORTAR PLUG

STORM DRAIN CENTERLINE DATA TABLE				
LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L1	N89°20'27"E	398.55'		
L2	N89°20'27"E	274.23'		
L5	N14°20'27"E	40.66'		
L6	N44°20'27"E	35.00'		
L7	S15°39'26"E	38.88'		
L12	N90°00'00"E	31.99'		

EUCLID AVENUE
(SR-83)

SCHAEFER AVENUE
(PUBLIC)

LEGEND

EXISTING PAVEMENT

STORM DRAIN FLOW DIRECTION

NOTE:

* IMPROVEMENTS PER SEPARATE CONTRACT
  - CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ON SITE PROPERTY OWNER PER WQMP MANAGEMENT AGREEMENT
  - NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

40' 0' 20' 40' 80'
SCALE: 1" = 40'

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO

DESIGNED BY: WLG DATE: 5/31/2023
DRAWN BY: WLG DATE: 5/31/2023
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE

ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE

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ELEV. 688.825' (NAVD '88) LEVEL RUN 2018
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REGISTERED PROFESSIONAL ENGINEER SIARA ROSE MACKINNEY No.85559 Exp. 9/30/2024 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 5/31/2023 DATE

STORM DRAIN IMPROVEMENT PLAN (PUBLIC)

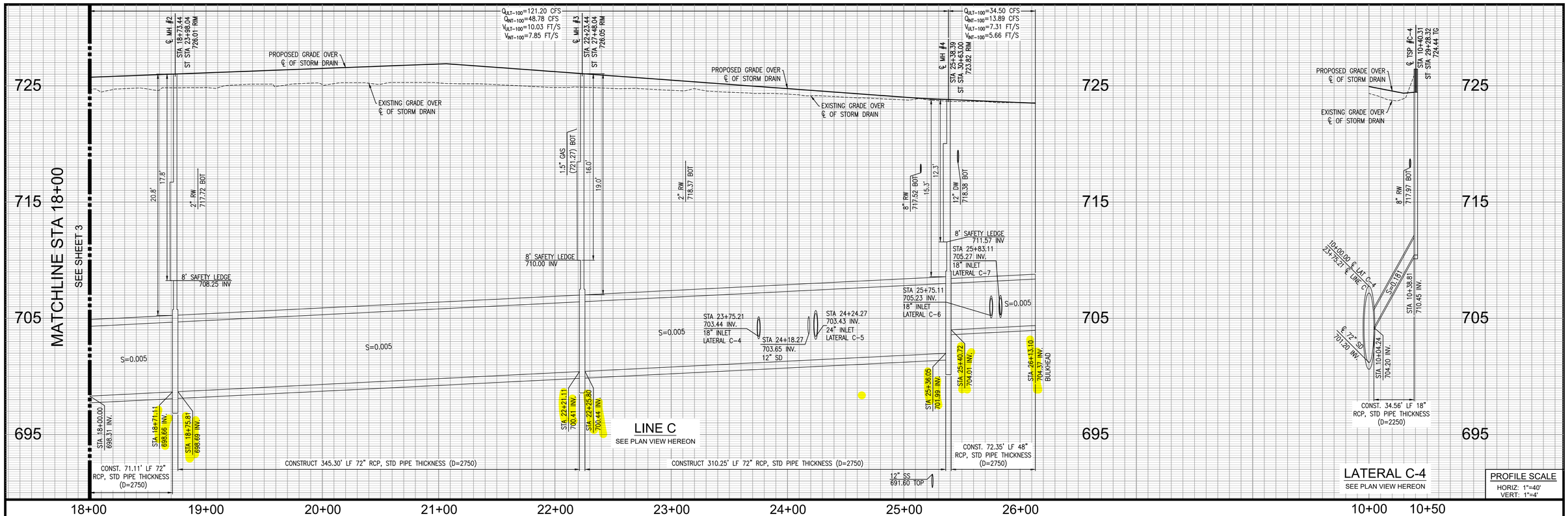
SCHAEFER AVENUE
SCHAEFER AVENUE - FROM EUCLID AVE TO 825' EAST OF EUCLID AVE

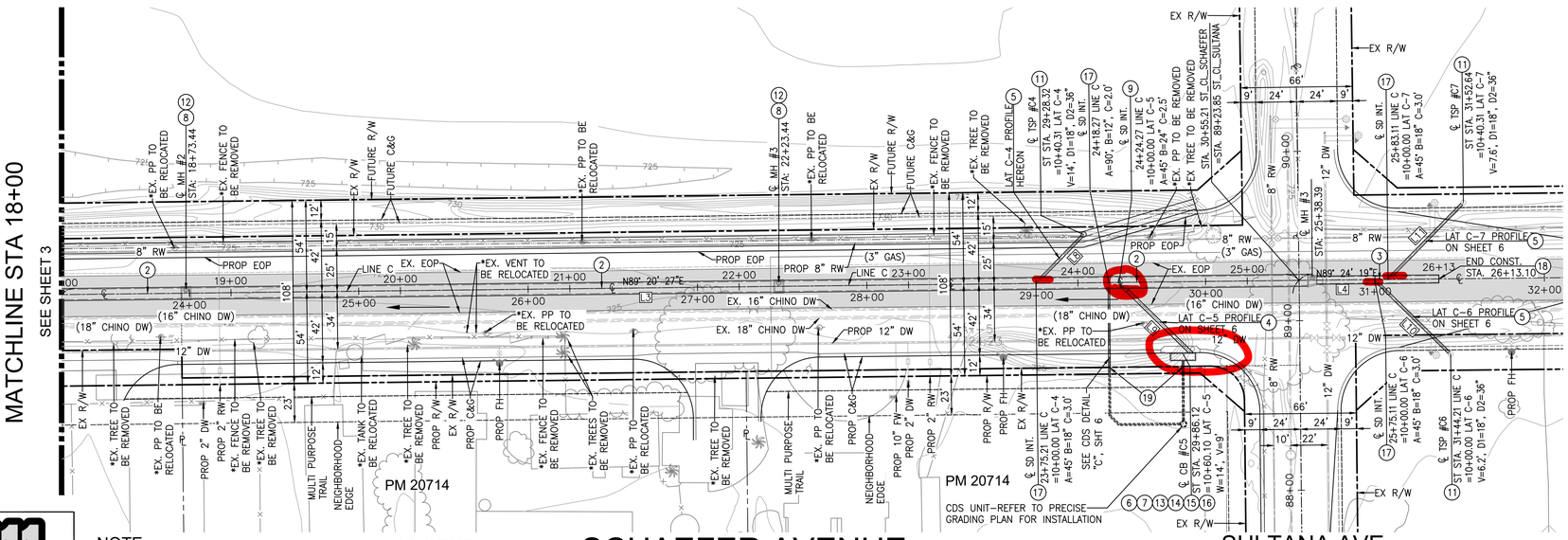
PM-20714

SHEET 3 OF 8
CONTRACT
ACCOUNT
DWG. NO.

05/31/2023

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Last Opened: May 31, 2023 - 1:06pm by Jose





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3. CONSTRUCT 48" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.
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18. REMOVE BRICK AND MORTAR PLUG

LINE/CURVE	BEARING/DELTA	LENGTH	RADIUS	TAN
L3	N89°20'27"E	736.05'		
L4	N89°24'19"E	72.38'		
L8	N44°20'27"E	36.06'		
L9	S45°39'33"E	53.34'		
L10	S45°35'41"E	60.10'		
L11	N44°24'19"E	60.71'		

40' 0' 20' 40' 80'
SCALE: 1" = 40'

Know what's below. Call 811 before you dig.

NOTE:

* IMPROVEMENTS PER SEPARATE CONTRACT
  - CDS UNITS AND 12" RCP WILL BE PRIVATELY MAINTAINED BY ON SITE PROPERTY OWNER PER WQMP MANAGEMENT AGREEMENT
  - NO CONSTRUCTION SHALL BE ALLOWED ON CALTRANS R/W WITHOUT AN ENCROACHMENT PERMIT FROM CALTRANS

LEGEND

EXISTING PAVEMENT

STORM DRAIN FLOW DIRECTION

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO

DESIGNED BY: WLG DATE: 5/31/2023
DRAWN BY: WLG DATE: 5/31/2023
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE

BENCH MARK No. CC-18-1
ELEV. 688.825' (NAVD '88) LEVEL RUN 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO CC-18-1." SET ON MOC OF THE HCR CURB @ THE SOUTHEAST RETURN OF EDISON AVE. AND EUCLID AVE.

REGISTERED PROFESSIONAL ENGINEER — SIARA ROSE MACKINNEY — No.85559 Exp. 9/30/2024 — CIVIL — STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — 85559 R.C.E. NO. — 5/31/2023 DATE

STORM DRAIN IMPROVEMENT PLAN (PUBLIC)

SCHAEFER AVENUE
SCHAEFER AVENUE - FROM 825' EAST OF EUCLID AVE TO SULTANA AVE

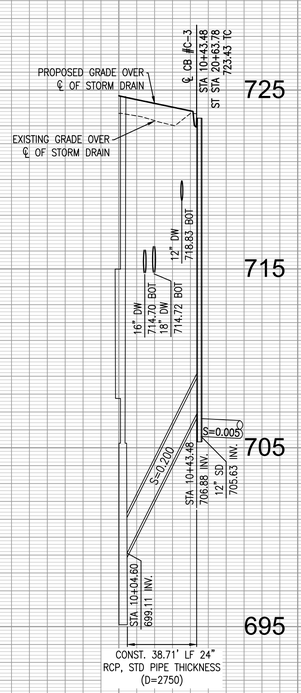
PM-20714

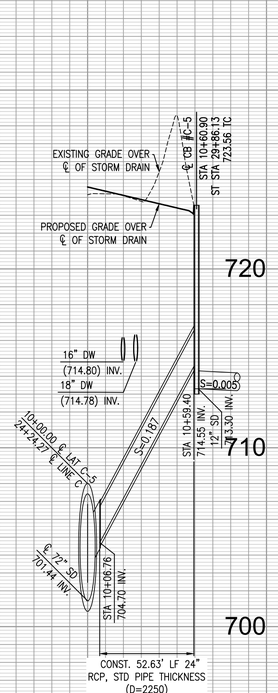
SHEET 4 OF 8
CONTRACT
ACCOUNT
DWG. NO.

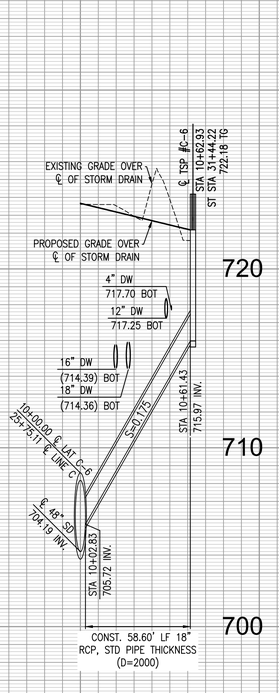
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Last Opened: May 31, 2023 - 1:06pm by Jose

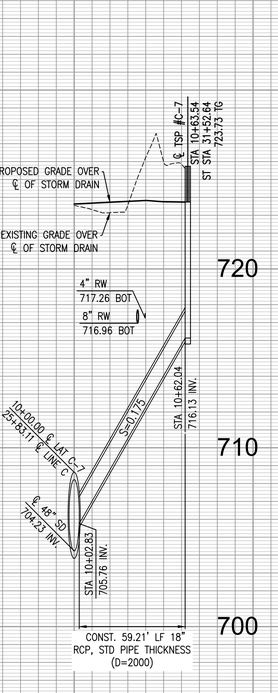
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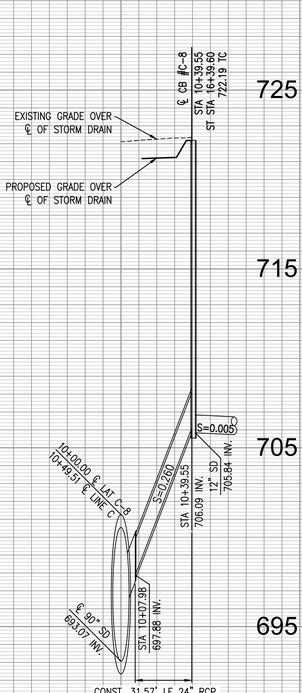












PROFILE SCALE
HORIZ: 1"=40'
VERT: 1"=4'

Know what's below. Call 811 before you dig.

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STORM DRAIN IMPROVEMENT PLAN (PUBLIC)

SCHAEFER AVENUE
SCHAEFER AVENUE - FROM 825' EAST OF EUCLID AVE TO SULTANA AVE

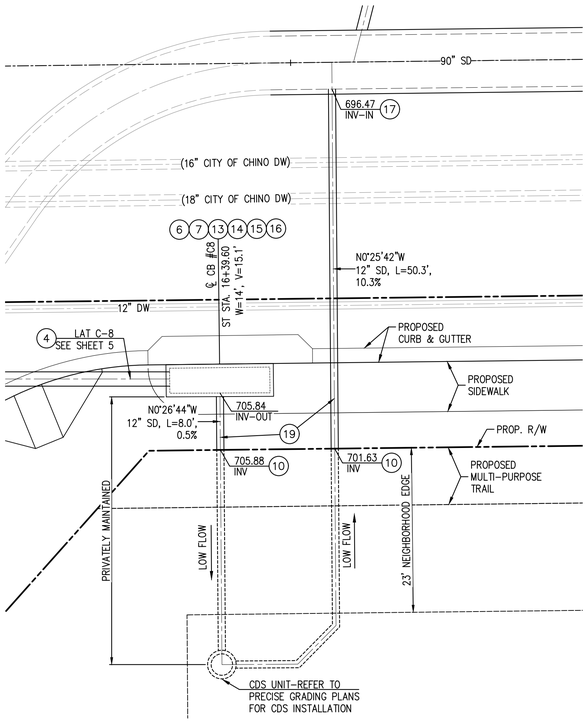
PM-20714

SHEET 5 OF 8
CONTRACT
ACCOUNT
DWG. NO.

40' 0' 20' 40' 80'
SCALE: 1" = 40'

Drawing Name: Z:\Shared\Project\Year_2022\2022-294 EMUSP - Distinguished Homes - Jason Lee\06 Engineering\Sheets\Off-Site\STORM DRAIN PLANS\03-05_2022-294_SD.dwg
Last Opened: May 31, 2023 - 1:06pm by: Jose

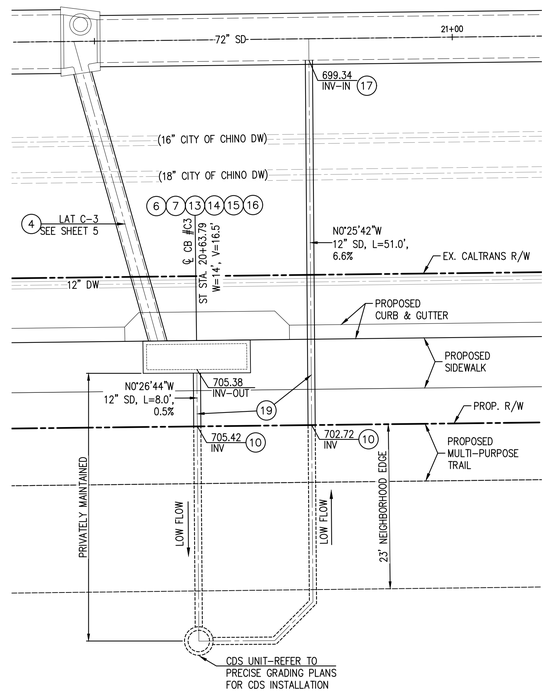
05/31/2023



CDS DETAIL "A"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'

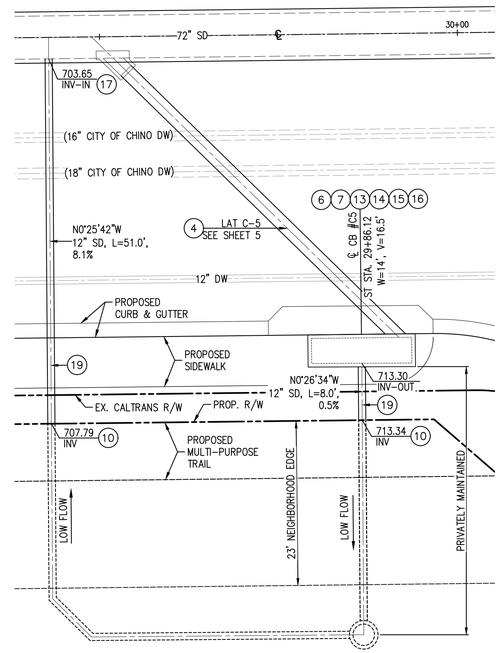
SEE SHEET 3



CDS DETAIL "B"
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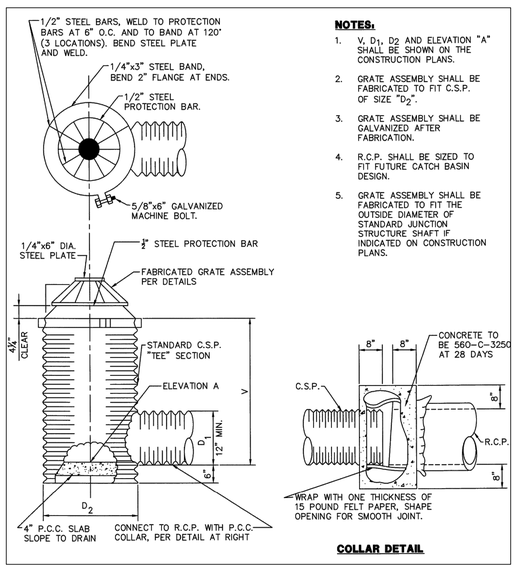
SEE SHEET 3



CDS DETAIL "C"
(PRIVATELY MAINTAINED)

SCALE: 1"=10'

SEE SHEET 4



11 TEMPORARY CSP STANDPIPE DETAIL

CONSTRUCTION NOTES

(4) CONSTRUCT 24" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.

(6) CONSTRUCT CATCH BASIN NO.2 PER CITY OF ONTARIO STD. DWG. 3003. "W" AND "V" PER PLAN

(7) CONSTRUCT LOCAL DEPRESSION FOR CATCH BASIN INLET PER CITY OF ONTARIO STD. DWG. 3005. REFER TO PERMIT PM 20714 STREET IMPROVEMENT PLANS FOR DETAILS.

(10) CONSTRUCT BRICK AND MORTAR BULKHEAD PER DETAIL 10 ON SHEET 7

(13) INSTALL TEMPORARY CONCRETE BOTTOM TO CATCH BASIN, PER DETAIL 13 ON SHEET 7

(14) CONSTRUCT BIO CLEAN CONNECTOR PIPE SCREEN ON 12" PIPE PER DETAIL 14 ON SHEET 7

(15) INSTALL ALMETEK PLACARD "NO DUMPING, DRAINS TO OCEAN" OR EQUIVALENT

(16) CONSTRUCT MONOLITHIC CATCH BASIN CONNECTION PER SPPWC 308-2 PER DETAIL ON SHEET 8

(17) CONSTRUCT JUNCTION STRUCTURE PIPE TO PIPE PER SPPWC STD. 332-2, CASE 1, DETAIL ON SHEET 7

(19) CONSTRUCT 12" RCP. TRENCH EXCAVATION & BACKFILL PER CITY OF ONTARIO STD. DRW. NO. 1306. D-LOAD PER PLAN. BEDDING PER LACDPW STD. 3080-3 OR APPROVED EQUAL.

NOTE:

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- WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT, AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED

40' 0' 20' 40' 80'

SCALE: 1" = 40'

811 Know what's below. Call 811 before you dig.

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STORM DRAIN IMPROVEMENT PLAN (PUBLIC)

SCHAEFER AVENUE

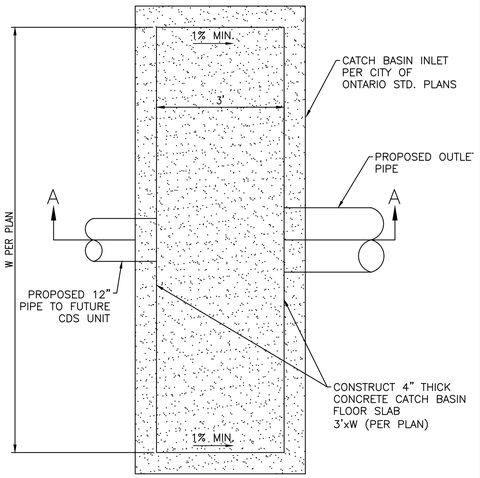
CDS DETAILS

PM-20714

SHEET 6 OF 8
CONTRACT ____
ACCOUNT ____
DWG. NO. ____

05/31/2023

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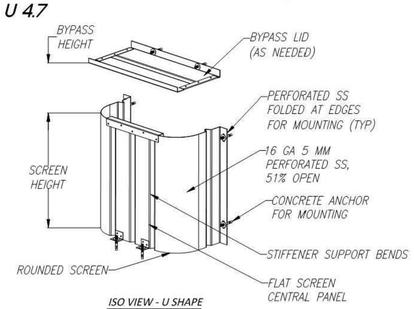


CATCH BASIN - PLAN VIEW

13 CATCH BASIN - TEMPORARY FLOOR CONSTRUCTION DETAIL

N.T.S.

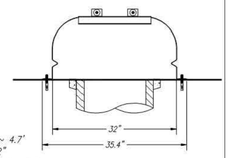
CONNECTOR PIPE SCREEN (CPS) U 4.7



ISO VIEW - U SHAPE

CPS U WITH 4.7 FT SCREEN LENGTH	
CPS HEIGHT (IN)	SCREEN FLOW (CFS)
12	6.67
18	12.26
24	18.88
30	26.40
36	34.71

NOTE: BYPASS FLOW RATES VARY WITH VAULT DEPTH AND BYPASS HEIGHT. CONTACT BIO CLEAN FOR ADDITIONAL INFORMATION.



TOTAL SCREEN LENGTH ≈ 4.7'
SPAN LENGTH = 32"
COMPATIBLE WITH PIPES UP TO ø24"

TOP SECTION VIEW - U SHAPE

GENERAL NOTES

1. BIO CLEAN TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED.
2. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS, AND CAPACITIES ARE SUBJECT TO CHANGE.
3. THIS CPS UNIT IS DESIGNED FOR TREATMENT FLOWS THROUGH THE SCREEN. FLOWS GREATER THAN THE TREATMENT FLOW RATE WILL BYPASS OVER THE SCREEN.
4. A BYPASS LID IS REQUIRED WHEN THE OUTLET PIPE IS DIRECTLY BELOW THE CURB OPENING.
5. CPS IS COMPRISED OF 304 STAINLESS STEEL. THICKNESS IS 16 GAUGE. SCREEN PERFORATIONS ARE 5 MILLIMETERS IN DIAMETER. THE SCREEN AREA IS 51% OPEN SPACE.

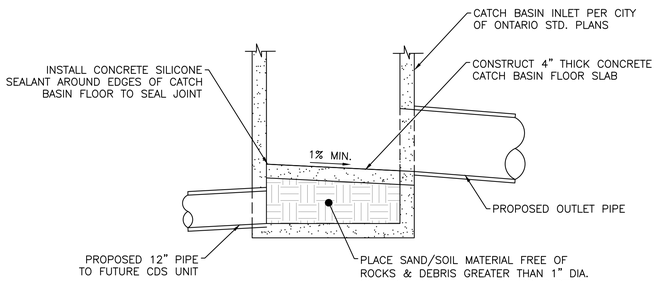
INSTALLATION NOTES

1. CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS, AND INCIDENTALS REQUIRED TO INSTALL THE CPS UNIT AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURER'S SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
2. POSITION THE CPS SO IT IS EVENLY SPACED AROUND THE CONNECTOR PIPE, ENSURING A MIN. OF 4" SPACING AWAY FROM ANY CORNERS. SCREEN BOTTOM SHALL BE FLUSH WITH THE CATCH BASIN FLOOR, OR WITH GAPS NO GREATER THAN 5 MM.
3. IF A BYPASS LID IS REQUIRED, VERIFY THE BYPASS HEIGHT NEEDED AND MARK THAT LOCATION ON THE WALL DIRECTLY ABOVE THE BASE UPRIGHTS. LIFT THE LID IN PLACE AND MARK THE HOLE LOCATIONS FOR THE LID MOUNTING BRACKETS. SECURE THE LID WITH STAINLESS STEEL NUTS.

WARRANTY: 3 YEAR MANUFACTURER'S		MEETS FULL CAPTURE REQUIREMENTS	
BIO CLEAN ENVIRONMENTAL SERVICES, INC. 398 VIA EL CENTRO, OCEANSIDE CA 92058 PHONE: 760-433-7640		REVISIONS:	DATE:
		REVISIONS:	DATE:
DATE: 1/17/2020	SCALE: NTS	REVISIONS:	DATE:
DRAFTER: G.M.S.	UNITS = INCHES	REVISIONS:	DATE:

Bio Clean
A Forterra Company

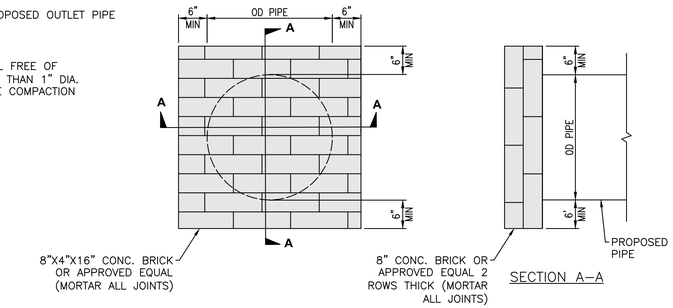
14 BIO CLEAN CONNECTOR PIPE SCREEN DETAIL



CATCH BASIN - PROFILE VIEW
SECTION A-A

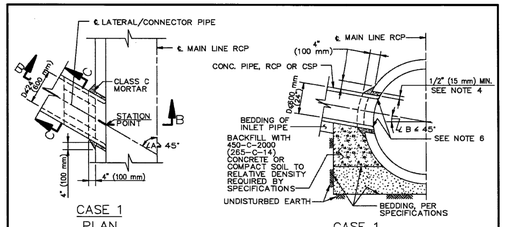
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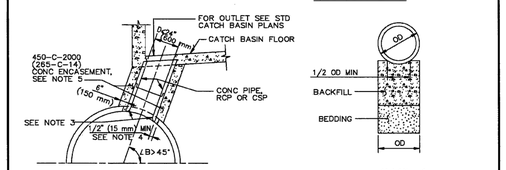
WHEN THE CDS UNIT IS INSTALLED THE TEMPORARY BOTTOM, DIRT AND TEMPORARY BULKHEADS WILL NEED TO BE REMOVED

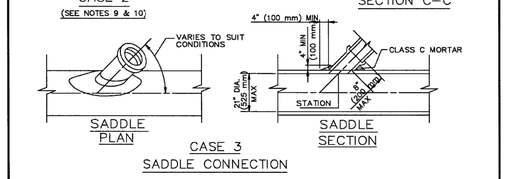


10 BRICK AND MORTAR BULKHEAD DETAIL

N.T.S.







STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1994 REV. 1996, 2009	JUNCTION STRUCTURE – PIPE TO PIPE ID ≤ 24" (600 mm) USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN 332–2 SHEET 1 OF 2

NOTES

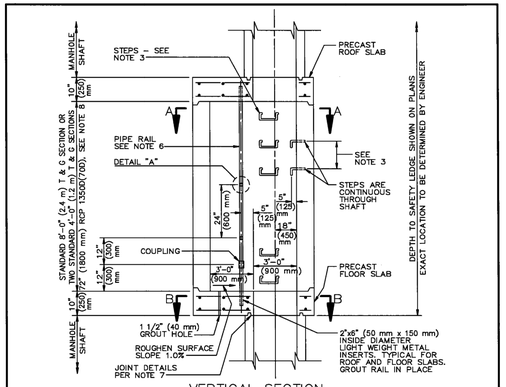
CASE 1 AND CASE 2

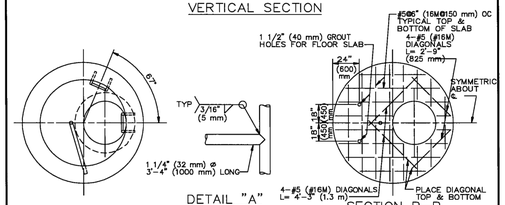
1. IF ANGLE A IS LESS THAN 45° OR IF D IS LARGER THAN 24" (600 mm), THEN ANOTHER STANDARD STRUCTURE SHALL BE SPECIFIED.
2. THE OUTSIDE DIAMETER OF THE INLET PIPE SHALL NOT EXCEED 1/2 THE INSIDE DIAMETER OF THE MAIN LINE.
3. THE INLET PIPE SHALL ENTER THE MAIN LINE RADIALLY. IF THE INLET PIPE CANNOT ENTER RADIALLY, THEN ANOTHER STANDARD STRUCTURE SHALL BE SPECIFIED.
4. THE SIZE OF THE OPENING INTO THE MAIN LINE SHALL BE THE OUTSIDE DIAMETER OF THE INLET PIPE PLUS 1" (30 mm) MINIMUM TO 3" (75 mm) MAXIMUM.
5. ALL CONNECTOR PIPES FOR CASE 2 SHALL BE ENCASED IN CONCRETE IF LAID WITHIN THE MAIN LINE EXCAVATED TRENCH OR IF LAID ON FILL WHICH HAS NOT BEEN DENSIFIED.
6. BURN OR CHIP END OF CONNECTOR PIPE FLUSH WITH INNER SURFACE OF MAIN LINE. ROUND EDGE OF CONCRETE PIPE OR RCP.
7. ALL CSP AND FITTINGS SHALL BE GALVANIZED.
8. STATION SPECIFIED ON THE PLANS APPLIES AT THE INTERSECTION OF THE INSIDE WALL OF MAIN LINE AND THE CENTERLINE OF INLET PIPE.
9. CASE 2 SHALL NOT BE USED TO CONNECT TO THE FLOOR OF A GRATING CATCH BASIN WHERE THE GRATE WILL BE SUBJECT TO VEHICLE TRAFFIC.
10. FOR CASE 2, NOT MORE THAN 12' (3.5 m) OF INLET PIPE SHALL BE LOCATED WITHIN THE MAIN LINE EXCAVATED TRENCH.

CASE 3

11. CONNECTIONS TO PIPES 21" (525 mm) OR LESS IN DIAMETER WITHOUT JUNCTION STRUCTURES OR PRECAST Y BRANCHES SHALL BE MADE WITH SADDLES.
12. THE OUTSIDE DIAMETER OF THE INLET PIPE SHALL NOT EXCEED ONE–HALF THE INSIDE DIAMETER OF THE MAIN LINE.
13. TRIM OR CUT SADDLE TO FIT SNUGLY OVER THE OUTSIDE OF THE MAIN LINE SO ITS AXIS WILL BE ON THE LINE AND GRADE OF THE CONNECTOR PIPE.
14. THE OPENING INTO THE PIPE SHALL BE CUT AND TRIMMED TO FIT THE SADDLE SO THAT NO PART WILL PROJECT WITHIN THE BORE OF THE SADDLE PIPE.
15. THE CONNECTOR PIPE SHALL BE SUPPORTED AS SHOWN IN CASES 1 AND 2.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	
JUNCTION STRUCTURE – PIPE TO PIPE (ID ≤ 24" (600 mm))	STANDARD PLAN 332–2 SHEET 2 OF 2





STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS, INC. GREENBOOK COMMITTEE 1962 REV. 1996, 2009	MANHOLE SHAFT SAFETY LEDGE USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	STANDARD PLAN 330–2 SHEET 1 OF 2

NOTES

1. MANHOLE SHAFT SAFETY LEDGE WILL BE NOTED ON THE PLANS WHEN REQUIRED. IT IS TO BE CONSTRUCTED WHEN DEPTH OF MANHOLE TO INVERT IS GREATER THAN 20' (6 m) AND MANHOLE SHAFT IS GREATER THAN 10' (3 m).
2. A SAFETY LEDGE SHALL NOT BE USED IF A PRESSURE MANHOLE IS REQUIRED.
3. STEPS SHALL CONFORM TO SPPWC 635 OR 636 AND SHALL BE ANCHORED 4" (100 mm) IN THE WALL OF THE STRUCTURE. STEPS SHALL BE PLACED TO MATCH THE SPACING OF THE MANHOLE SHAFT.
4. REINFORCEMENT SHALL BE PER ASTM A 615, GRADE 40 (ASTM A 615M, GRADE 300) AND SHALL TERMINATE 2" (50 mm) CLEAR OF CONCRETE SURFACE UNLESS OTHERWISE SHOWN.
5. GROUT HOLES, PIPE AND FITTINGS SHALL BE PROVIDED IN THE FLOOR SLAB. PRESSURE GROUTING SHALL BE USED TO FILL VOIDS AND TO SECURE UNIFORM BEARING. THE GROUT SHALL BE NEAT CEMENT GROUT AND GROUTING PRESSURES SHALL BE AS DETERMINED IN THE FIELD BY THE ENGINEER.
6. PIPE RAIL SHALL BE FABRICATED OF 1 1/4" (32 mm) STANDARD GALVANIZED PIPE COMPOSED OF TWO SECTIONS 7'–6" (2.25 m) & 18" (450 mm) IN LENGTH JOINED BY A GALVANIZED COUPLING. THE COUPLING SHALL BE THREADED A MINIMUM OF 2" (50 mm) ON EACH PIPE LENGTH.
7. ROOF AND FLOOR SLABS SHALL BE PRECAST AND KEYED FOR REINFORCED CONCRETE PIPE SECTIONS AS SHOWN. ALL JOINTS SHALL BE FILLED WITH CLASS C MORTAR AND NEATLY POINTED OR WIPED ON THE INSIDE.
8. 72" (1800 mm) RCP SHALL BE PROVIDED WITH TWO CIRCULAR CAGES OF REINFORCEMENT.
9. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:

   324 MANHOLE SHAFT – WITH ECCENTRIC REDUCER
   326 MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER
   635 STEEL STEP
   636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION	
MANHOLE SHAFT SAFETY LEDGE	STANDARD PLAN 330–2 SHEET 2 OF 2

Know what's below. Call 811 before you dig.

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CHECKED BY: DATE:

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4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989-9789 FAX: (909) 989-9660

SIGNATURE: SIARA R. MACKINNEY, P.E. — R.C.E. NO. 85559 — DATE 5/31/2023

STORM DRAIN IMPROVEMENT PLAN (PUBLIC)

SCHAEFER AVENUE
DETAILS

PM-20714

SHEET 7 OF 8
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ACCOUNT
DWG. NO.

05/31/2023

Drawing Name: Z:\Shares\Project\Year_2022\2022-294 EMI\SP - Distinguished Homes - Jason Lee\06 Engineering\Sheets\Off-Site\STORM DRAIN PLANS\07_08_2022-294_SD_DET.dwg
Last Opened: May 31, 2023 - 1:08pm by: Jose

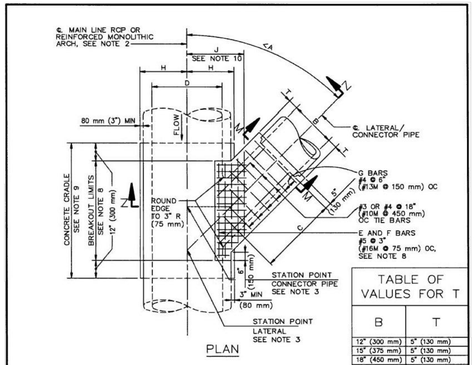


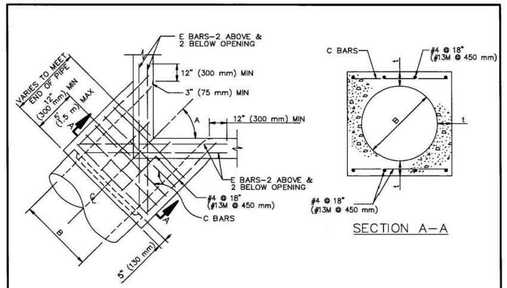
TABLE OF VALUES FOR T	
B	T
12" (300 mm)	5" (130 mm)
15" (375 mm)	5" (130 mm)
18" (450 mm)	5" (130 mm)
21" (525 mm)	5" (130 mm)
24" (600 mm)	5 1/2" (140 mm)
27" (675 mm)	5 1/2" (140 mm)
30" (750 mm)	6" (150 mm)
33" (825 mm)	6 1/2" (165 mm)
36" (900 mm)	6 1/2" (170 mm)
39" (975 mm)	7" (180 mm)

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1964 REV. 1996, 1999, 2009	JUNCTION STRUCTURE – PIPE TO PIPE INLET ID ≥ 24" (600 mm) OR OD > 1/2 MAIN LINE ID	STANDARD PLAN 331–3
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2

NOTES

1. THIS JUNCTION STRUCTURE SHALL BE USED WHEN THE OUTSIDE DIAMETER OF THE LATERAL IS GREATER THAN 1/2 THE INSIDE DIAMETER D OF THE MAIN LINE; OR WHEN THE INSIDE DIAMETER B OF THE LATERAL IS GREATER THAN 24" (600 mm). B SHALL NOT EXCEED 0.75 D OR 39" (975 mm).
2. IF THE MAIN LINE IS A REINFORCED MONOLITHIC ARCH STORM DRAIN, D SHALL REFER TO THE CLEAR SPAN OF THE ARCH. REINFORCING STEEL SHALL BE CUT AND BENT INTO THE JUNCTION STRUCTURE IN THE SAME MANNER AS FOR A PIPE. A CONCRETE CRADLE IS NOT REQUIRED FOR A REINFORCED MONOLITHIC ARCH.
3. STATIONS SHOWN ON THE PLANS FOR LATERALS APPLY AT THE INTERSECTION OF CENTERLINES OF MAIN LINE AND LATERAL. STATIONS SHOWN ON THE PLANS FOR CATCH BASIN CONNECTOR PIPES APPLY AT THE INTERSECTION OF THE INSIDE WALL OF THE MAIN LINE WITH THE CONNECTOR PIPE CENTERLINE.
4. VALUES FOR A, B, C AND D SHALL BE SHOWN ON THE PLANS. ELEVATION R AND ELEVATION S SHALL BE SHOWN ONLY WHEN REQUIRED PER NOTE 5.
5. a. ELEVATIONS R AND S NEED NOT BE SHOWN ON THE PLANS IF THE INLET PIPE IS TO ENTER THE MAIN LINE RADIALLY.
   b. ELEVATION R SHALL BE SHOWN ON THE PLANS ONLY IF A STUB IS TO BE PROVIDED IN THE MAIN LINE FOR FUTURE CONNECTION OF AN INLET PIPE.
   c. ELEVATION S SHALL BE SHOWN ON THE PLANS IF AN INLET PIPE IS TO ENTER THE MAIN LINE OTHER THAN RADIALLY. INLET PIPE SHALL BE LAID ON A STRAIGHT GRADE FROM ELEVATION S TO THE CATCH BASIN OR GRADE BREAK IN LINE.
6. THE INLET PIPE SHALL ENTER THE MAIN LINE RADIALLY UNLESS OTHERWISE INDICATED. THE INLET PIPE MAY ENTER THE MAIN LINE OTHER THAN RADIALLY IF ANGLE A IS GREATER THAN 45°; B IS LESS THAN OR EQUAL TO 24" (600 mm) AND THE OUTSIDE DIAMETER OF THE INLET PIPE IS LESS THAN 0.5 D; OTHERWISE, SPPWC 340 SHALL BE USED.
7. NO MORE THAN ONE OPENING SHALL BE MADE IN ANY ONE SECTION OF PIPE.
8. THE OPENING FOR THE BREAKOUT SHALL BE RECTANGULAR AND CUT NORMAL TO THE PIPE SURFACE WITHOUT DAMAGING THE REINFORCING STEEL. THE TRANSVERSE REINFORCEMENT OF THE MAIN LINE SHALL BE CUT AT THE CENTER OF THE OPENING AND BENT INTO THE TOP AND BOTTOM SLABS OF THE SPUR.
9. THE MAIN LINE SHALL BE REINFORCED WITH A CONCRETE CRADLE AND ENCASEMENT (AS APPLICABLE). A CONCRETE ENCASEMENT IS REQUIRED IF A JOINT IN THE MAIN LINE FALLS WITHIN THE LIMITS OF THE CRADLE. THE CONCRETE ENCASEMENT SHALL EXTEND 12" (300 mm) ABOVE THE TOP OF THE MAIN LINE AND TO THE LIMITS OF THE CRADLE.
   IF CONNECTING TO AN EXISTING STORM DRAIN, PORTION OF CRADLE OPPOSITE INLET MAY BE OMITTED.
10. REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 40, (ASTM A 615M, GRADE 300), AND BE PLACED 1 1/2" (40 mm) CLEAR FROM CONCRETE SURFACES, UNLESS OTHERWISE SHOWN F BARS SHALL BE CARRIED TO A POINT NOT LESS THAN J DISTANCE FROM CENTER LINE WITH J=7D/12 + 6" (150 mm).
11. FLOOR OF THE SPUR SHALL BE STEEL-TROWELED TO THE SPRING LINE OF THE SPUR.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
	JUNCTION STRUCTURE–PIPE TO PIPE INLET ID≥24" (600 mm) OR OD≥1/2 MAIN LINE ID	STANDARD PLAN 331–3
		SHEET 2 OF 2



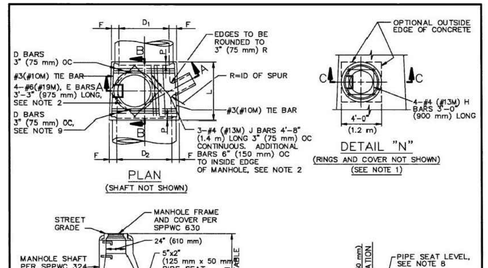
STRUCTURAL DATA							
B	t	C BARS	D&E BARS	B	t	C BARS	D&E BARS
12" (300 mm)	4" (115 mm)	#5 @ 6" (#13M @ 150 mm)	#5 (#19M)	42" (1050 mm)	7 1/2" (190 mm)	#5 @ 6" (#16M @ 150 mm)	#6 (#19M)
15" (375 mm)	4–1/4" (115 mm)			45" (1125 mm)	7 3/4" (190 mm)		
18" (450 mm)	4–1/2" (115 mm)			48" (1200 mm)	8" (215 mm)		
21" (525 mm)	5" (140 mm)			51" (1275 mm)	8 1/2" (215 mm)		
24" (600 mm)	5 1/4" (140 mm)			54" (1350 mm)	9" (240 mm)		
27" (675 mm)	5 1/2" (140 mm)			57" (1425 mm)	9 1/4" (240 mm)		
30" (750 mm)	6" (165 mm)			60" (1500 mm)	9 1/2" (240 mm)		
33" (825 mm)	6 1/4" (165 mm)			63" (1575 mm)	10" (260 mm)		
36" (900 mm)	6 1/2" (165 mm)			66" (1650 mm)	10 1/4" (260 mm)		
39" (975 mm)	7" (190 mm)			69" (1725 mm)	10 3/4" (280 mm)		
				72" (1800 mm)	11" (280 mm)		
FOR B GREATER THAN 72" (1800 mm) SEE PLANS							

NOTES

1. REINFORCING STEEL SHALL BE 1–1/2" (40 mm) CLEAR FROM FACE OF CONCRETE UNLESS OTHERWISE SHOWN.
2. REINFORCING STEEL FOR INSIDE FACE OF CATCH BASIN SHALL BE CUT AT CENTER OF OPENING AND BENT INTO WALLS OF MONOLITHIC CATCH BASIN CONNECTION. REINFORCING STEEL FOR OUTSIDE FACE OF CATCH BASIN SHALL BE CUT 2" (50 mm) CLEAR OF OPENING.
3. CONNECTION SHALL BE PLACED MONOLITHIC WITH CATCH BASIN. THE ROUNDED EDGE OF OUTLET SHALL BE CONSTRUCTED BY PLACING CONCRETE WITH THE SAME CLASS OF CONCRETE AS THE CATCH BASIN AGAINST A CURVED FORM WITH A RADIUS OF 3" (75 mm).
4. CONNECTIONS SHALL BE CONSTRUCTED WHEN:
   (A) PIPES INLET OR OUTLET THROUGH CORNER OF CATCH BASIN
   (B) ANGLE A FOR PIPES THROUGH 30" (750 mm) IN DIAMETER IS LESS THAN 70° OR GREATER THAN 110°.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
	MONOLITHIC CATCH BASIN CONNECTION	STANDARD PLAN 308–2
		SHEET 2 OF 2

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
PROMULGATED BY THE PUBLIC WORKS STANDARDS INC. GREENBOOK COMMITTEE 1964 REV. 1996, 2009	MONOLITHIC CATCH BASIN CONNECTION	STANDARD PLAN 308–2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 2



NOTES

1. WHEN DEPTH M FROM STREET GRADE TO THE TOP OF THE BOX IS LESS THAN 2'–10 1/2" (867 mm) FOR PAVED STREETS OR 3'–6" (1060 mm) FOR UNPAVED STREETS, CONSTRUCT MONOLITHIC SHAFT PER SECTION C–C AND DETAIL "N". SHAFT FOR ANY DEPTH OF MANHOLE MAY BE CONSTRUCTED PER SECTION C–C. WHEN DIAMETER D_1 IS 48" (1200 mm) OR LESS, CENTER OF SHAFT MAY BE LOCATED PER NOTE 2.
2. CENTER OF MANHOLE SHAFT SHALL BE LOCATED OVER CENTER LINE OF STORM DRAIN WHEN DIAMETER D_1 IS 48" (1200 mm) OR LESS, IN WHICH CASE PLACE E BARS SYMMETRICALLY AROUND SHAFT AT 45° WITH CENTERLINE AND OMIT J BARS.
3. L AND P SHALL HAVE THE FOLLOWING VALUES UNLESS OTHERWISE SHOWN ON THE PROJECT DRAWINGS:
   A. D_2=96" (2400 mm) OR LESS, L=5'–6" (1.7 m), P=5" (130 mm)
   B. D_2 OVER 96" (2400 mm), L=6'–0" (1.8 m), P=8" (210 mm)
   L MAY BE INCREASED OR LOCATION OF MANHOLE SHIFTED TO MEET PIPE ENDS. WHEN L GREATER THAN THAT SHOWN ABOVE IS SPECIFIED, D BARS SHALL BE CONTINUED 6" (150 mm) OC.
4. STATIONS OF MANHOLES SHOWN ON PLANS APPLY AT CENTERLINE OF SHAFT. ELEVATIONS ARE SHOWN AT CENTERLINE OF SHAFT AND REFER TO THE PROLONGED INVERT GRADE LINES.
5. REINFORCEMENT SHALL CONFORM TO ASTM A 615M, GRADE 300 (ASTM A 615, GRADE 40), AND SHALL TERMINATE 1 1/2" (40 mm) CLEAR OF CONCRETE SURFACES UNLESS OTHERWISE SHOWN.
6. FLOOR OF MANHOLE SHALL BE STEEL TROWELED TO SPRING LINE.
7. BODY OF MANHOLE SHALL BE POURED IN ONE CONTINUOUS OPERATION EXCEPT THAT A CONSTRUCTION JOINT WITH A LONGITUDINAL KEYWAY MAY BE PLACED AT SPRING LINE.
8. THICKNESS OF THE DECK SHALL VARY WHEN NECESSARY TO PROVIDE A LEVEL SEAT BUT SHALL NOT BE LESS THAN THE TABULAR VALUES FOR F SHOWN ON SHEET 2.
9. D BARS SHALL BE #4 (#13M) FOR D_2=39" (975 mm) OR LESS, #5 (#16M) FOR D_2= 42" (1050 mm) TO 84" (2100 mm) INCLUSIVE AND #6 (#19M) FOR D_2= 90" (2250 mm) OR OVER.
10. CENTERLINE OF INLET PIPE SHALL INTERSECT INSIDE FACE OF CONE AT SPRING LINE UNLESS OTHERWISE SHOWN.
11. STEPS SHALL CONFORM TO SPPWC 635 OR 636. UNLESS OTHERWISE SHOWN, STEPS SHALL BE UNIFORMLY SPACED 14" (350 mm) TO 15" (375 mm) OC. THE LOWEST STEP SHALL NOT BE MORE THAN 24" (600 mm) ABOVE THE INVERT.
12. THE FOLLOWING CRITERIA SHALL BE USED FOR THIS MANHOLE:
   A. MAIN LINE = 36" (900 mm) INSIDE DIAMETER OR LARGER. EXCEPT IF THE MAIN LINE RCP DOWNSTREAM OF MANHOLE IS 36" (900 mm) TO 42" (1050 mm) INSIDE DIAMETER AND THE MAIN LINE RCP UPSTREAM IS 33" (825 mm) OR LESS SPPWC 321 SHALL BE USED.

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
	MANHOLE PIPE–TO–PIPE MAIN LINE ID=36" (900 mm) OR LARGER	STANDARD PLAN 320–2
	USE WITH STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION	SHEET 1 OF 4

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
	MANHOLE PIPE–TO–PIPE MAIN LINE ID = 36" (900 mm) OR LARGER	STANDARD PLAN 320–2
		SHEET 3 OF 4

TABLE OF VALUES FOR F	
D_2	F
36" (900 mm)	6 1/2" (165 mm)
39" (975 mm)	7" (180 mm)
42" (1050 mm)	7 1/2" (190 mm)
45" (1125 mm)	7 3/4" (195 mm)
48" (1200 mm)	8" (205 mm)
51" (1275 mm)	8 1/2" (215 mm)
54" (1350 mm)	9" (230 mm)
57" (1425 mm)	9 1/4" (235 mm)
60" (1500 mm)	9 1/2" (240 mm)
63" (1575 mm)	10" (255 mm)
66" (1650 mm)	10 1/4" (260 mm)
69" (1725 mm)	10 3/4" (275 mm)
72" (1800 mm)	11" (280 mm)
78" (1950 mm)	11 3/4" (300 mm)
84" (2100 mm)	12 1/2" (320 mm)
90" (2250 mm)	13 1/4" (335 mm)
96" (2400 mm)	14" (355 mm)
102" (2550 mm)	15 1/2" (395 mm)
108" (2700 mm)	16" (405 mm)
114" (2850 mm)	16 1/2" (420 mm)
120" (3000 mm)	17" (430 mm)
126" (3150 mm)	17" (430 mm)
132" (3300 mm)	17 1/2" (445 mm)
138" (3450 mm)	17 1/2" (445 mm)
144" (3600 mm)	18" (455 mm)

TABLE OF VALUES FOR M (SEE NOTE 1)				
SECTION	PAVED STREET		UNPAVED STREET	
	MAX	MIN	MAX	MIN
A–A		2'–10 1/2" (867 mm)		3'–6" (1060 mm)
C–C	11" (282 mm)	8 1/2" (217 mm)	16" (410 mm)	15" (380 mm)

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
	MANHOLE PIPE–TO–PIPE MAIN LINE ID = 36" (900 mm) OR LARGER	STANDARD PLAN 320–2
		SHEET 2 OF 4

B. THE OUTSIDE DIAMETER OF THE LATERAL MUST BE LESS THAN OR EQUAL TO 1/2 THE INSIDE DIAMETER OF THE MAIN LINE. IF THE UPSTREAM AND DOWNSTREAM DIAMETERS OF THE MANHOLE ARE NOT THE SAME, THE GOVERNING INSIDE DIAMETER OF THE MAIN LINE SHALL BE CONSIDERED TO BE THAT WHERE THE EXTENDED CENTERLINE OF THE LATERAL ENTERS THE MANHOLE.
C. IN NO INSTANCE SHALL THE INSIDE DIAMETER OF THE LATERAL TO THE MANHOLE BE GREATER THAN 30" (750 mm).

13. MANHOLE FRAME AND COVER SHALL CONFORM TO SPPWC 630 UNLESS OTHERWISE SHOWN.
14. MANHOLE SHAFT SHALL CONFORM TO SPPWC 324 UNLESS OTHERWISE SHOWN.
15. WHERE A MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 326.
16. WHERE A PRESSURE MANHOLE SHAFT – WITH ECCENTRIC REDUCER IS SPECIFIED REFER TO SPPWC 328.
17. WHERE A PRESSURE MANHOLE SHAFT – 914 mm (36") WITHOUT REDUCER IS SPECIFIED REFER TO SPPWC 329.
18. THE FOLLOWING SPPWC ARE INCORPORATED HEREIN:
    324 MANHOLE SHAFT – WITH ECCENTRIC REDUCER
    326 MANHOLE SHAFT – 36" (900 mm) WITHOUT REDUCER
    328 PRESSURE MANHOLE SHAFT – WITH ECCENTRIC
    329 PRESSURE MANHOLE SHAFT 36" (914 mm) WITHOUT REDUCER
    630 24" (610 mm) MANHOLE FRAME AND COVER
    633 36" (914 mm) MANHOLE FRAME AND COVER
    635 STEEL STEP
    636 POLYPROPYLENE PLASTIC STEP

STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION		
	MANHOLE PIPE–TO–PIPE MAIN LINE ID = 36" (900 mm) OR LARGER	STANDARD PLAN 320–2
		SHEET 4 OF 4

Know what's below. Call 811 before you dig.

REVISIONS			
MARK	DATE	BY	APPROVED/RCE NO.

DESIGNED BY: WLG DATE: 5/31/2023
DRAWN BY: WLG DATE: 5/31/2023
CHECKED BY: DATE:

CITY OF ONTARIO

RECOMMENDED BY: BRYAN LIRLEY, P.E., ASSISTANT CITY ENGINEER — DATE
ACCEPTED BY: KHOI DO, P.E., CITY ENGINEER — DATE

BENCH MARK No. CC–18–1
ELEV. 688.825' (NAVD '88) LEVEL RUN 2018
LOCATION: FOUND 2.5" BRASS DISK STAMPED "CITY OF ONTARIO CC–18–1." SET ON MOC OF THE HCR CURB @ THE SOUTHEAST RETURN OF EDISON AVE. AND EUCLID AVE.

REGISTERED PROFESSIONAL ENGINEER SHAWN JOSE MOONEY No.85559 Exp. 9/30/2024 CIVIL STATE OF CALIFORNIA

WestLAND Group, Inc. Land Surveyors • Civil Engineers • GIS
4150 CONCOURS, ONTARIO, CA 91764
PHONE: (909) 989–9789 FAX: (909) 989–9660

SIGNATURE: SIARA R. MACKINNEY, P.E. R.C.E. NO. 85559 5/31/2023 DATE

STORM DRAIN IMPROVEMENT PLAN (PUBLIC)

SCHAEFER AVENUE
DETAILS

PM-20714

SHEET 8 OF 8
CONTRACT
ACCOUNT
DWG. NO.

05/31/2023

Drawing Name: Z:\Shared\Project\Year_2022\2022-294 EMJSP - Distinguished Homes - Jason Lee\06 Engineering\Sheets\Off-Site\STORM DRAIN PLANS\07_08_2022-294_SD_DET.dwg
Last Opened: May 31, 2023 - 1:08pm by: Jose

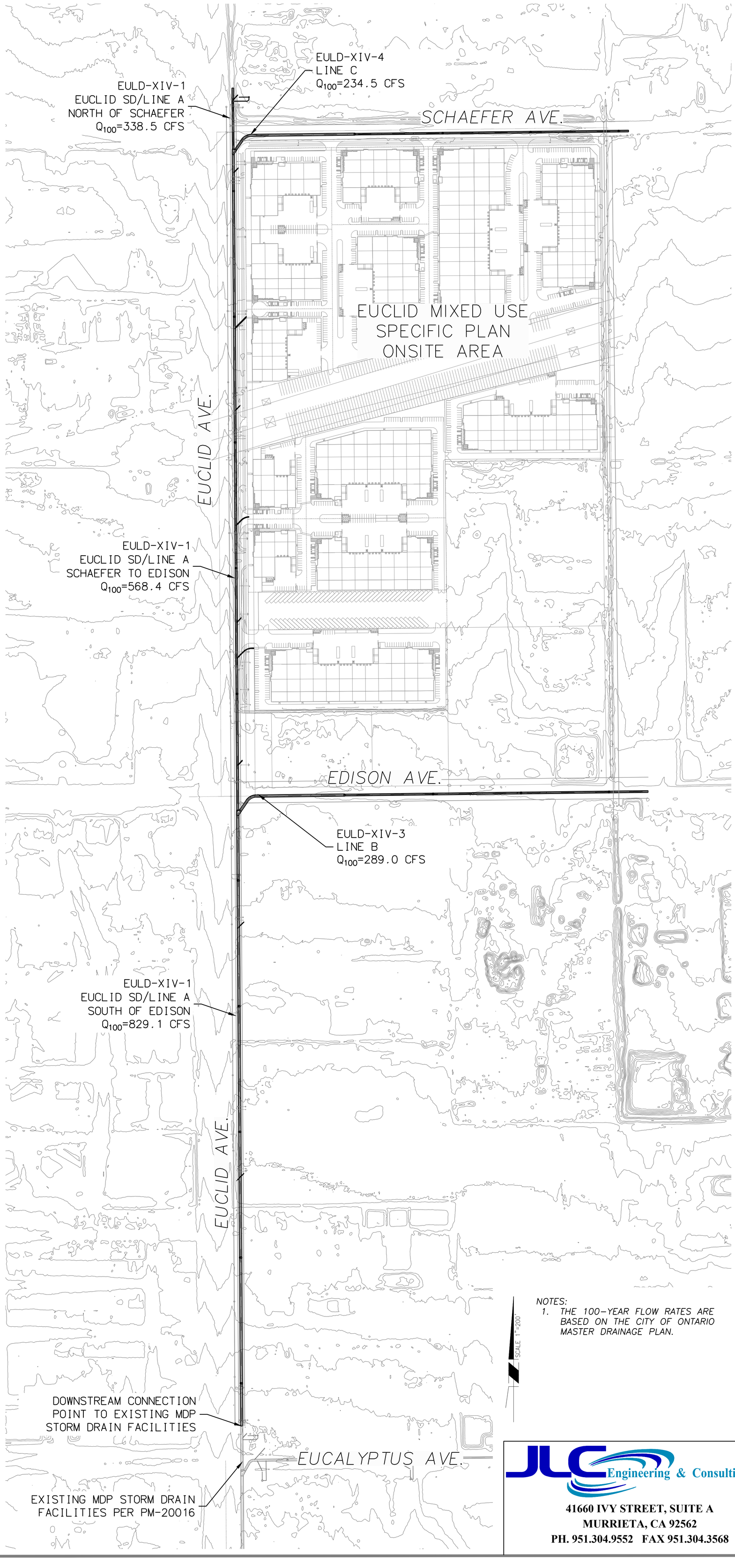
EXHIBITS

EXHIBIT A: EUCLID AVENUE STORM DRAIN DRAINAGE FACILITIES MAP

EUCLID MIXED USE SPECIFIC PLAN

IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

EUCLID AVENUE STORM DRAIN
DRAINAGE FACILITIES MAP



NOTES:
1. THE 100-YEAR FLOW RATES ARE BASED ON THE CITY OF ONTARIO MASTER DRAINAGE PLAN.

EXHIBIT "A"

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

EUCLID MIXED USE SPECIFIC PLAN

EUCLID AVENUE STORM DRAIN
DRAINAGE FACILITIES MAP

Drawing Name: O:\265.24.23\Engineering\Hydrology_Plan\Exhibits_Offsite_Euclid_Hydraulics\Exhibit-A-Offsite-Drainage-Facilities.dwg
Last Opened: May 10, 2023 - 3:45pm by stanner

APPENDIX G2

PRELIMINARY WATER QUALITY MANAGEMENT PLAN

Preliminary Water Quality Management Plan (PWQMP)

For compliance with Santa Ana Regional Water Quality Control Board

Order Number R8-2010-0036 (NPDES Permit No. CAS618036)

for

Project Name:	**Euclid Mixed Use Specific Plan**
Ontario Project #:	**TBD**
Project Description:	**Industrial Building Development**
Applicant Name:	**Euclid Land Investments, LLC C/O RCCD Inc., Attn: Jason Lee**
Applicant Address:	**8101 E. Kaiser Blvd, Suite 140 Anaheim Hills, CA 92808**
Project Address:	**East side of Euclid Avenue between**
Size of Development:	**60 ACRES**

Submittal Date: March 16, 2023
Revised: __

Preliminary Water Quality Management Plan (PWQMP)

1. Introduction

The Preliminary Water Quality Management Plan (PWQMP) is a planning tool to improve integration of required water quality elements, stormwater management, water conservation, rainwater harvesting and re-use, and flood management in land use planning and the City's development process. The Preliminary WQMP will assist project applicants and planners in properly designing and laying out project sites so that water quality may be incorporated in the most effective manner and at the lowest cost for the developer.

The San Bernardino County Municipal Separate Storm Sewer System Permit (MS4 Permit) requires project-specific Water Quality Management plans (WQMP) to be prepared for all priority new development and significant redevelopment projects listed in Section 2 of this document. The MS4 Permit stipulates that the City of Ontario require priority project applicants to submit a Preliminary project-specific WQMP, as early as possible, during the environmental review or planning phase of a development project and that the Preliminary WQMP be approved prior to the issuance of land use entitlement.

2. Priority Projects (requiring a Preliminary WQMP)

Land Use entitlement shall not be issued for any of the listed projects, below, until a Preliminary WQMP has been approved by the City's Engineering Department. For construction projects not going through entitlement, a Preliminary and Final project-specific WQMP shall be approved, prior to the issuance of construction permits:

Check the appropriate project category below, for this project:

Check below	**Project Categories**
	1. All significant re-development projects. Significant re-development is defined as the addition or replacement of 5,000 or more square feet of impervious surface on an already developed site subject to discretionary approval of the Permittee. Redevelopment does not include routine maintenance activities that are conducted to maintain original line and grade, hydraulic capacity, original purpose of the facility, or emergency redevelopment activity required to protect public health and safety. Where redevelopment results in an increase of less than fifty percent of the impervious surfaces of a previously existing developed site, and the existing development was not subject to WQMP requirements, the numeric sizing criteria discussed below applies only to the addition or replacement, and not to the entire developed site. Where redevelopment results in an increase of fifty percent or more of the impervious surfaces of a previously existing developed site, the numeric sizing criteria applies to the entire development (new and existing).

Check below	Project Categories
X	2. New development projects that create 10,000 square feet or more of impervious surface (collectively over the entire project site) including commercial, industrial, residential housing subdivisions (i.e., detached single family home subdivisions, multi-family attached subdivisions or townhomes, condominiums, apartments, etc.), mixed-use, and public projects. This category includes development projects on public and private land, which fall under the planning and building authority of the permitting agency.
	3. Automotive repair shops (with SIC codes 5013, 5014, 5541, 7532- 7534, 7536-7539).
	4. Restaurants and Food Service Establishments where the land area of development is 5,000 square feet or more.
	5. Developments of 2,500 square feet of impervious surface or more adjacent to (within 200 feet) or discharging directly into environmentally sensitive areas (ESA's) such as areas designated in the Ocean Plan as areas of special biological significance or waterbodies listed on the CWA Section 303(d) list of impaired waters.
X	6. Parking lots of 5,000 square feet or more exposed to storm water. Parking lot is defined as land area or facility for the temporary storage of motor vehicles.
	7. Retail Gasoline Outlets (RGOs) that are either 5,000 sq ft or more, or have a projected average daily traffic of 100 or more vehicles per day.
	8. *This project is not covered under any of the categories listed above.

* If the development is not covered under any of the project categories listed in Section 2, the project is not required to design and install Site Design/LID BMPs or Treatment Control BMPs to treat the design storm event (Design Capture Volume) described in Section 4.

3. Preliminary WQMP Objectives

Through a combination of Site Design/LID BMPs (where feasible), Source Control, and/or Treatment Control BMPs, project-specific WQMPs shall address all identified pollutants and hydrologic conditions of concern from new development and significant re-development projects for the categories of projects (priority projects) listed in Section 2. Under each type of BMP, listed below, please indicate which BMPs are planned to be implemented and included in the Final WQMP for the project:

A. Site Design/LID (Low Impact Design) for Reducing Stormwater Runoff:

The MS4 Permit requires each priority development project to infiltrate, harvest and use, evapotranspire, or bio-treat the runoff from a 2-yr, 24-hour storm event (Design Capture Volume). If site conditions do not permit infiltration, harvest and use, evapotranspiration, and/or bio-treatment of the entire Design Capture Volume, at the project site, Site Design/LID techniques are required to be implemented to the Maximum Extent Practicable, at the project site, and the remainder of the DCV shall be infiltrated, harvested, bio-treated or treated by alternative measures.

Project applicants shall submit a Preliminary WQMP that documents the LID/Site Design BMPs, proposed for the project. Please indicate, in the table below, which Site Design/LID BMPs will be utilized on this project to accomplish this requirement:

Site Design/LID Practice	Planned	Not Planned
Provide at least the minimum effective area required for LID BMPs, to comply with the WQMP (see Table 3-1 below).		X
Grade parking lot areas/drive aisles/roof drains to sheet flow runoff into landscaped swales, via curb cuts or zero-face curbs or otherwise disconnect direct drainage from MS4.		X
Design landscaped areas as swales and grade to accept runoff from building roofs, parking lots and project roadways.		X
Install surface retention basins or infiltration trenches to receive impervious area runoff.		X
Install pervious pavement in parking stalls, alleys, driveways, gutters, walkways, trails or patios.		X
Install underground stormwater retention chambers where downstream landscaped areas are limited.	X	
Install approved Stormwater Drywells in detention areas.	X	
Construct streets, sidewalks, and parking lot stalls to the minimum widths necessary.	X	
Install on-site Biotreatment basins/trenches with underdrains, where soil type is poorly draining.		X
Install “Engineered Soil” to increase uptake/soil storage capacity and/or evapotranspiration.		X
Install Rainwater Harvesting/Use Equipment.		X
Utilize approved off-site retention/infiltration, biotreatment or proprietary treatment, where it is infeasible to install, on-site.		X

Table 3-1 Minimum Effective Area[1] Required for LID BMPs (surface + subsurface facilities) for Project WQMP to Demonstrate Infeasibility[2] (% of site)

Project Type	New Development	Re-Development
SF/MF Residential < 7 du/ac	10%	5%
SF/MF Residential < 7 - 18 du/ac	7%	3.5%
SF/MF Residential > 18 du/ac	5%	2.5%

Mixed Use, Commercial/Industrial w/FAR< 1.0	10%	5%
Mixed Use, Commercial/Industrial w/FAR 1.0-2.0	7%	3.5%
Mixed Use, Commercial/Industrial w/FAR> 2.0	5%	2.5%
Podium (parking under > 75% of project)	3%	1.5%
Zoning allowing development to property lines	2%	1%
Transit Oriented Development[3]	5%	2.5%
Parking	5%	2.5%

[1] "Effective area" is defined as land area which 1) is suitable for a retention/infiltration BMP (based on infeasibility criteria) and 2) is located down-gradient from building roof or paved areas, so that it may receive gravity flow runoff.

[2] Criteria only required if the project WQMP seeks to demonstrate that the full DCV cannot be feasibly managed on-site.

[3] Transit oriented development is defined as a project with development center within one half mile of a mass transit center.

Key: du/ac = dwelling units/acre, FAR = Floor Area Ratio = ratio of gross floor area of building to gross lot area, MF = Multi Family, SF = Single Family

B. Source Control BMPs – The following BMPs are designed to control stormwater pollutants and runoff water at the location where it is generated. Please indicate which of the listed BMPs are planned to be implemented for the project:

Source Control BMPs	Planned	Not Planned
Minimize non-stormwater site runoff through efficient irrigation system design and controllers.	X	
Minimize trash and debris in storm runoff through a regular parking lot, storage yard and roadway sweeping program.	X	
Provide proper covers/roofs and secondary containment for outside material storage & work areas.		X
Provide solid roofs over all trash enclosures.	X	
Site Owner(s)/Property Manager/HOA or POA will be familiar with the project WQMP and stormwater BMPs.	X	
Owner or HOA or POA to provide Education/Training of site occupants and employees on stormwater BMPs.	X	
Install stormwater placards/stenciled messages with a "No Dumping" message on all on-site/off-site storm drain inlets.	X	
Provide contained equipment/vehicle wash rack areas that discharge to sanitary sewer.		X

C. Treatment Control BMPs – The following BMPs are designed to control stormwater pollutants where it is not feasible to install on-site Site Design/LID BMPs, with the requisite capacity to treat the Design Capture Volume for identified Pollutants of Concern or where pretreatment of stormwater runoff is required, ahead of infiltration BMPs. Please indicate which of the listed BMPs are planned to be implemented for the project:

Treatment Control BMP	Planned	Not Planned
Gravity Separator devices for pretreatment of sediment, trash/litter or Oil & Grease	X	
Proprietary Biofiltration vaults/devices		X
Media Cartridge Filtration Vaults		X
Proprietary Filter Inserts for on-site storm drain inlets or retention basin/trench overflow drains		X
Regional Treatment facilities are installed or are planned for installation, off-site, and provide a superior level of treatment or clear advantage to on-site treatment BMPs		X

4. Volume-based calculation (approximate) for sizing on-site or off-site Stormwater Retention/Infiltration, Harvest & Re-Use or Biotreatment facilities

1) Calculate the "Watershed Imperviousness Ratio", i, which is equal to the percent of impervious area in the BMP Drainage Area divided by 100.

2) Calculate the composite runoff coefficient C_{BMP} for the Drainage Area above using the following equation:

$$\mathbf{C_{BMP} = 0.858i^3 - 0.78i^2 + 0.774i + 0.04}$$

where: $\mathbf{C_{BMP}}$ = composite runoff coefficient; and,

i = watershed imperviousness ratio.

3) Determine the area-averaged "6-hour Mean Storm Rainfall", P_6, for the Drainage Area. This is calculated by multiplying the area averaged 2-year 1-hour value (0.55"-0.6") by the appropriate regression coefficient from Table 1 (1.4807). The 2-yr, 1-hr value for southern Ontario is approximately to 0.5" (P_6 = 0.5*1.4807 = 0.74 and northern Ontario is approximately 0.6" in/hr (P_6 = 0.6*1.4807 = 0.89).

4) Determine the appropriate drawdown time. Use the regression constant a = 1.582 for 24 hours and a = 1.963 for 48 hours. *Note: Regression constants are provided for both 24 hour and 48 hour drawdown times; however, 48 hour drawdown times should be used in most areas of California. Drawdown times in excess of 48 hours should be used with caution as vector breeding can be a problem after water has stood in excess of 72 hours. (Use of the 24 hour drawdown time should be limited to drainage areas with coarse soils (Class 'A' soils, that readily drain.)*

5) Calculate the "Maximized Detention Volume", P_0, using the following equation:

$$P_0 = a \cdot C_{BMP} \cdot P_6$$

where: P_0 = Maximized Detention Volume, in inches

a = 1.582 for 24 hour and a = 1.963 for 48 hour drawdown,

C_{BMP} = composite runoff coefficient; and,

P_6 = 6-hour Mean Storm Rainfall, in inches

6) Calculate the "Target Capture Volume", V_0, using the following equation:

$$V_0 = (P_0 \cdot A) / 12$$

where: V_0 = Target Capture Volume, in acre-feet

P_0 = Maximized Detention Volume, in inches; and,

A = BMP Drainage Area, in acres

Project Volume-based calculation (approximate) for planned on-site or off-site Stormwater Retention/Infiltration, Harvest & Re-Use or Biotreatment facilities:

Variable	Factor/Formula	Area A1 Result	Area A2 Result	Area A3 Result	Area A4 Result	Area A5 Result	Area A6 Result	Area A7 Result
Ratio of impervious surface/total site surface	(i)	0.90	0.9	0.9	0.90	0.9	0.9	0.9
C_{BMP}= runoff coefficient	$0.858i^3 - 0.78i^2 + 0.774i + 0.04$ =	0.73028	0.73028	0.73028	0.73028	0.73028	0.73028	0.73028
P_6	**P_6 = 2-yr,1- hr depth*1.4807 =	0.8440	0.8440	0.8440	0.8440	0.8440	0.8440	0.8440
Detention Volume-acre inches	P_0 = a * C_{BMP} * P_6 =	1.210	1.210	1.210	1.210	1.210	1.210	1.210
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	1.963	1.963	1.963	1.963	1.963	1.963
Project Total Area (ac)	(A)	4.61	6.51	4.78	7.83	2.71	5.22	2.25
Design Capture Volume, cu. ft. (DCV)	$V_0 = [(P_0 * A)/12]*43560$ =	20,247	28,592	20,994	34,389	11,902	22,926	9,882
Water Volume infiltrated in first 3 hrs of storm	Vol= in/hr/12 x ft^2 of infiltration area x 3 hrs	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Retention/ treatment Volume provided, cu. ft.	Retention capacity of basins, trenches, underground system or biotreatment proposed	20,500	28,600	21,000	34,400	12,000	23,000	9,900

**For P_6 value, use site coordinates and NOAA website to determine project's average 2-yr, 1-hr rainfall depth, at: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html .

Variable	Factor/Formula	Area B1 Result	Area B2 Result	Area B3 Result	Area B4 Result	Area B5 Result	Area C1 Result	Area C2 Result
Ratio of impervious surface/total site surface	(i)	0.90	0.9	0.9	0.90	0.9	0.9	0.9
C_{BMP}= runoff coefficient	$0.858i^3 - 0.78i^2 + 0.774i + 0.04$ =	0.73028	0.73028	0.73028	0.73028	0.73028	0.73028	0.73028
P_6	**P_6 = 2-yr,1- hr depth*1.4807 =	0.8440	0.8440	0.8440	0.8440	0.8440	0.8440	0.8440
Detention Volume-acre inches	P_0 = a * C_{BMP} * P_6 =	1.210	1.210	1.210	1.210	1.210	1.210	1.210
Drawdown rate of basin/trench (a)	1.582 for 24-hr drawdown or 1.963 for 48-hr drawdown =	1.963	1.963	1.963	1.963	1.963	1.963	1.963
Project Total Area (ac)	(A)	4.26	1.61	5.30	3.16	1.86	4.98	3.47
Design Capture Volume, cu. ft. (DCV)	$V_0 = [(P_0 * A)/12]*43560$ =	18,710	7,071	23,277	13,879	8,169	21,872	15,240
Water Volume infiltrated in first 3 hrs of storm	Vol= in/hr/12 x ft^2 of infiltration area x 3 hrs	TBD	TBD	TBD	TBD	TBD	TBD	TBD
Retention/ treatment Volume provided, cu. ft.	Retention capacity of basins, trenches, underground system or biotreatment proposed	18,800	7,100	23,300	13,900	8,200	21,900	15,300

**For P_6 value, use site coordinates and NOAA website to determine project's average 2-yr, 1-hr rainfall depth, at: http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html .

5. **Hydrologic Conditions of Concern (HCOC) and use of the on-line San Bernardino County HCOC Map for determining necessary mitigation steps necessary if there are HCOCs downstream of a project:**

Project applicants may access the on-line HCOC Map at: http://sbcounty.permitrack.com/WAP/ . The map will indicate any hydrology concerns with downstream waterways that are hydraulically connected to the project and will indicate if there are any approved regional projects downstream that could be utilized for off-site mitigation of HCOCs. Please indicate here if the project will or will not be able to retain/infilter, harvest and use or biotreat and detain the DCV, on-site, as calculated in Section 4 and if there are HCOCs identified downstream of the project:

Retain or Harvest/Use the DCV on site?	Yes	**X**	No	
Biotreat the DCV but not infilter the runoff?	Yes		No	**X**
HCOCs identified downstream of site?	Yes		No	**X**

If the entire DCV will not be retained on site, the DCV is biotreated but not infiltered or additional detention capacity is needed to address identified HCOCs, downstream of the site, please list here, what additional mitigation measures will be utilized (on-site or off-site) to address HCOCs (see Section 4.2.1-4.2.3 of the SB County WQMP Technical Guidance):

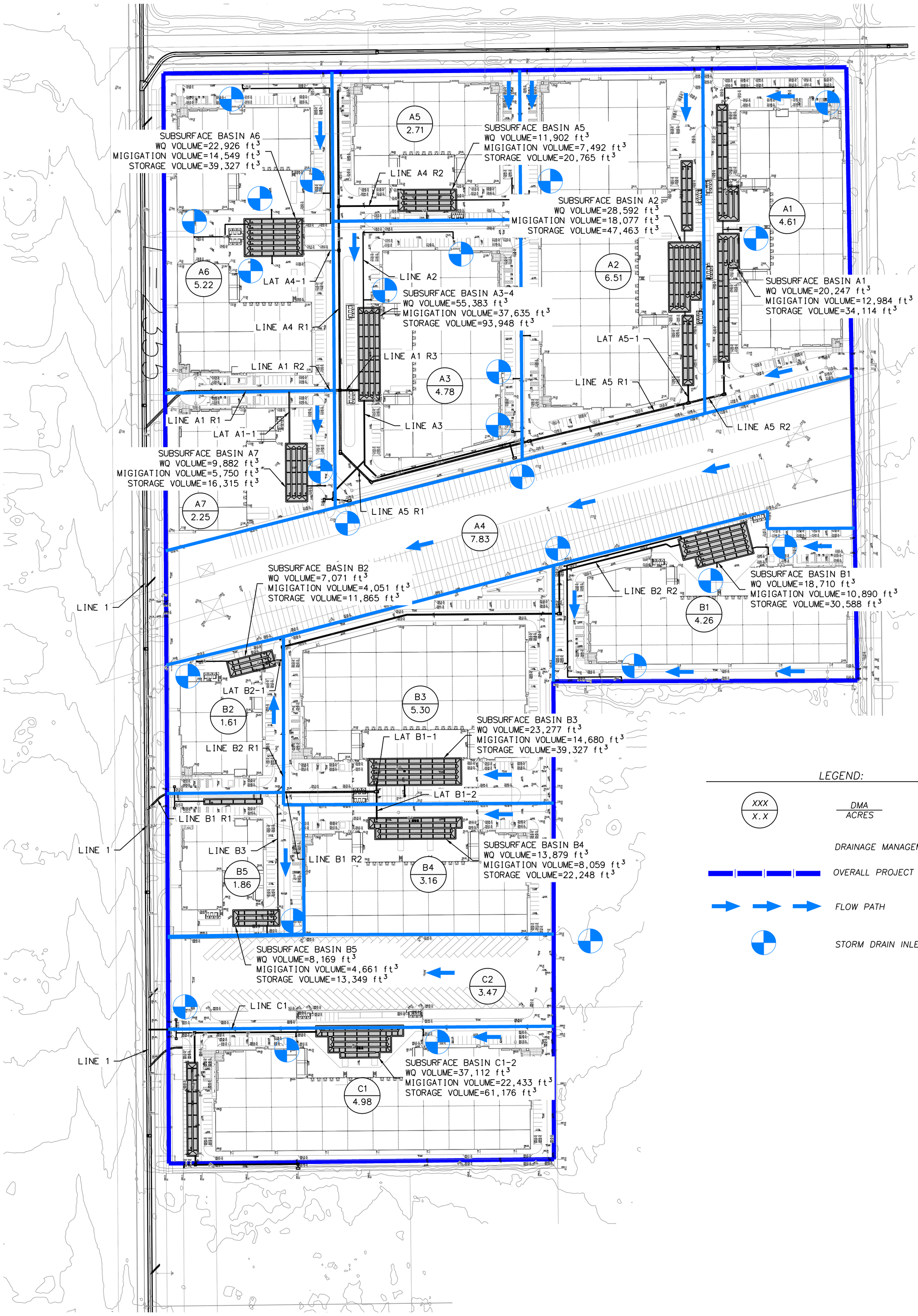
6. **Site Plan and Conceptual Grading/Drainage Plan requirements for submission with the Preliminary WQMP:**

Provide a Site Plan and Conceptual Grading/Drainage Plan along with this Preliminary WQMP, which conceptually shows the proposed locations of buildings, homes, parking lots, parks, new paved roadways, landscaped areas, drainage patterns and drainage sub-areas, methods of conveyance, proposed retention/infiltration, harvest & use or biotreatment facilities that are planned for installation. Where it is determined to be infeasible to capture and detain design storm runoff volumes, on-site, please include other design features, as described in Section 3, above. Include numbered or lettered notes on the Site Plan with a legend detailing other BMPs, as described in Section 3.

EUCLID MIXED USE SPECIFIC PLAN

IN THE CITY OF ONTARIO, COUNTY OF SAN BERNARDINO, STATE OF CALIFORNIA

WQMP SITE PLAN



LEGEND:

XXX / X.X — DMA / ACRES

DRAINAGE MANAGEMENT AREA

OVERALL PROJECT AREA

FLOW PATH

STORM DRAIN INLETS

DESIGN NOTES:
A3+A4 ARE BOTH TREATED AT SUBSURFACE BASIN A3-4
C1+C2 ARE BOTH TREATED AT SUBSURFACE BASIN C1-2

100 50 0 100 200 300

SCALE: 1"=100'

SCALE 1"=100'

FIGURE 1

EUCLID MIXED USE SPECIFIC PLAN

WQMP SITE PLAN

JLC Engineering & Consulting, Inc.

41660 IVY STREET, SUITE A
MURRIETA, CA 92562
PH. 951.304.9552 FAX 951.304.3568

Drawing Name: O:\265.24.23\Engineering\WQMP\Appendix 1 - Maps & Site Plan\Figure 3- WQMP Site Plan.dwg
Last Opened: Mar 15, 2023 - 3:36pm by mhunt

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A1 (DMA A1)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
200811.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 20,247

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A2 (DMA A2)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
283575.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 28,592

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A3 (DMA A3)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
208216.8		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 20,994

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A4 (DMA A4)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
341074.8		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 34,389

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A5 (DMA A5)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
118047.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 11,902

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A6 (DMA A6)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
227383.2		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 22,926

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA A7 (DMA A7)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
98010		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 9,882

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B1 (DMA B1)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
185565.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 18,710

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B2 (DMA B2)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
70131.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 7,071

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B3 (DMA B3)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
230868		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 23,277

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B4 (DMA B4)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
137649.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 13,879

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA B5 (DMA B5)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
81021.6		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 8,169

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA C1 (DMA C1)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
216928.8		$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 21,872

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

Form 4.2-1 LID BMP Performance Criteria for Design Capture Volume
AREA C2 (DMA C2)

1 Project area DA 1 (ft^2):	**2** Impervious area after applying preventative site design practices (Imp%): 0.9	3 Runoff Coefficient (Rc): 0.7303
151153.2		*$R_c = 0.858(Imp\%)^3 - 0.78(Imp\%)^2 + 0.774(Imp\%) + 0.04$*

4 Determine 1-hour rainfall depth for a 2-year return period $P_{2yr\text{-}1hr}$ (in): 0.57 http://hdsc.nws.noaa.gov/hdsc/pfds/sa/sca_pfds.html

5 Compute P_6, Mean 6-hr Preciptiation (inches) 0.8440

*P_6 = Item 4 * C_1, where C_1 is a function of site climatic region specified in Form 3-1 Item 1 (Valley = 1.4807; Mountain = 1.909; Desert = 1.2371)*

6 Drawdown Rate

Use 48 hours as the default condition. Selection and use of the 24 hour drawdonw time condition is subject to approval by the local jurisdiction. The necessary BMP footprint is a function of drawdown time. While shorter drawdown times reduce the performance criteria for LID BMP design capture volume, the depth of water that can be stored is also reduced.

24-hrs ☐

48-hrs ☑

7 Compute design capture volume, DCV (ft^3) 15,240

*DCV = 1/12 * [Item 1 * Item 3 * Item 5 * C2], where C2 is a function of drawdown rate (24-hr = 1.582; 48-hr =1.963)*

Compute separate DCV for each outlet from the project site per schematic drawdown in Form 3-1 Item 2

APPENDIX H

NOISE DATA

Noise Measurement Field Data

Project:	Euclid Mixed-Use Specific Plan	**Job Number:**	19524005
Site No.:	1	**Date:**	2/8/2023
Analyst:	Sarah Miller and Ali Abualia	**Time:**	2:15PM-2:25pm
Location:	Approx: 7225 Edison Avenue Ontario, CA 91762		
Noise Sources:	Cars and trucks on Edison Avenue		
Comments:			

Results (dBA):

	Leq:	**Lmin:**	**Lmax:**	**Peak:**
Measurement 1:	74.8	48.5	92.3	108.6

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	72
Wind (mph):	7
Sky:	Clear
Bar. Pressure:	30.18
Humidity:	21%

Photo:



Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	ST-.055.s	Computer's File Name	LxTse_0007061-20230208 141551-ST-.055.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Start Time	2023-02-08 14:15:51	Duration	0:10:00.0		
End Time	2023-02-08 14:25:51	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-02-08 07:36:29	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	74.8 dB		
LAE	102.6 dB	SEA	--- dB
EA	2.0 mPa²h		
LA_{peak}	108.6 dB	2023-02-08 14:19:12	
LAS_{max}	92.3 dB	2023-02-08 14:19:13	
LAS_{min}	48.5 dB	2023-02-08 14:22:48	
LA_{eq}	74.8 dB		
LC_{eq}	79.3 dB	LC_{eq} - LA_{eq}	4.5 dB
LAI_{eq}	77.7 dB	LAI_{eq} - LA_{eq}	2.9 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	3	0:00:06.7
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
74.8 dB	74.8 dB	0.0 dB

LDEN	LDay	LEve	LNight
74.8 dB	74.8 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	74.8 dB		79.3 dB		--- dB	
$LS_{(max)}$	92.3 dB	2023-02-08 14:19:13	--- dB	None	--- dB	None
$LS_{(min)}$	48.5 dB	2023-02-08 14:22:48	--- dB	None	--- dB	None
$L_{Peak(max)}$	108.6 dB	2023-02-08 14:19:12	--- dB	None	--- dB	None

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	79.8 dB
LAS 10.0	78.2 dB
LAS 33.3	73.5 dB
LAS 50.0	70.1 dB
LAS 66.6	64.5 dB
LAS 90.0	55.7 dB

Noise Measurement Field Data

Project:	Euclid Mixed-Use Specific Plan	**Job Number:**	19524005
Site No.:	3	**Date:**	2/8/2023
Analyst:	Sarah Miller and Ali Abualia	**Time:**	2:41pm-2:51pm
Location:	Approx: 6989 Schaefer Avenue Chino, CA 91710		
Noise Sources:	residential apartment complex		
Comments:			

Results (dBA):

	Leq:	Lmin:	Lmax:	Peak:
Measurement 1:	56.1	46.2	63.9	80.7

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	72
Wind (mph):	7
Sky:	Clear
Bar. Pressure:	30.16
Humidity:	21%

Photo:



Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	ST-.056.s	Computer's File Name	LxTse_0007061-20230208 144155-ST-.056.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Start Time	2023-02-08 14:41:55	Duration	0:10:00.0		
End Time	2023-02-08 14:51:55	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-02-08 07:36:29	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	56.1 dB		
LAE	83.9 dB	SEA	--- dB
EA	27.2 µPa²h		
LA_{peak}	80.7 dB	2023-02-08 14:44:39	
LAS_{max}	63.9 dB	2023-02-08 14:51:01	
LAS_{min}	46.2 dB	2023-02-08 14:48:09	
LA_{eq}	56.1 dB		
LC_{eq}	70.0 dB	LC_{eq} - LA_{eq}	13.9 dB
LAI_{eq}	58.0 dB	LAI_{eq} - LA_{eq}	1.9 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	0	0:00:00.0
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
56.1 dB	56.1 dB	0.0 dB

LDEN	LDay	LEve	LNight
56.1 dB	56.1 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	56.1 dB		70.0 dB		--- dB	
$LS_{(max)}$	63.9 dB	2023-02-08 14:51:01	--- dB	None	--- dB	None
$LS_{(min)}$	46.2 dB	2023-02-08 14:48:09	--- dB	None	--- dB	None
$L_{Peak(max)}$	80.7 dB	2023-02-08 14:44:39	--- dB	None	--- dB	None

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	60.5 dB
LAS 10.0	59.4 dB
LAS 33.3	56.4 dB
LAS 50.0	54.4 dB
LAS 66.6	52.4 dB
LAS 90.0	49.3 dB

Noise Measurement Field Data

Project:	Euclid Mixed-Use Specific Plan	**Job Number:**	19524005
Site No.:	4	**Date:**	2/8/2023
Analyst:	Sarah Miller and Ali Abualia	**Time:**	3:06pm-3:16pm
Location:	Approx: 13545 Euclid Avenue Ontario, CA 91762		
Noise Sources:	Cars and trucks on Euclid Avenue		
Comments:			

Results (dBA):

	Leq:	Lmin:	Lmax:	Peak:
Measurement 1:	75.0	46.0	89.9	106.3

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	73
Wind (mph):	7
Sky:	Clear
Bar. Pressure:	30.16
Humidity:	21%

Photo:



Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	ST-.057.s	Computer's File Name	LxTse_0007061-20230208 150608-ST-.057.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Start Time	2023-02-08 15:06:08	Duration	0:10:00.0		
End Time	2023-02-08 15:16:08	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-02-08 07:36:29	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	75.0 dB		
LAE	102.8 dB	SEA	--- dB
EA	2.1 mPa²h		
LA_{peak}	106.3 dB	2023-02-08 15:12:57	
LAS_{max}	89.8 dB	2023-02-08 15:12:57	
LAS_{min}	46.0 dB	2023-02-08 15:09:25	
LA_{eq}	75.0 dB		
LC_{eq}	82.0 dB	LC_{eq} - LA_{eq}	7.0 dB
LAI_{eq}	77.3 dB	LAI_{eq} - LA_{eq}	2.3 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	1	0:00:03.1
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
75.0 dB	75.0 dB	0.0 dB

LDEN	LDay	LEve	LNight
75.0 dB	75.0 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	75.0 dB		82.0 dB		--- dB	
$LS_{(max)}$	89.8 dB	2023-02-08 15:12:57	--- dB	None	--- dB	None
$LS_{(min)}$	46.0 dB	2023-02-08 15:09:25	--- dB	None	--- dB	None
$L_{Peak(max)}$	106.3 dB	2023-02-08 15:12:57	--- dB	None	--- dB	None

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	80.2 dB
LAS 10.0	78.7 dB
LAS 33.3	74.9 dB
LAS 50.0	72.7 dB
LAS 66.6	69.7 dB
LAS 90.0	55.3 dB

Noise Measurement Field Data

Project:	Euclid Mixed-Use Specific Plan	**Job Number:**	19524005
Site No.:	5	**Date:**	2/8/2023
Analyst:	Sarah Miller and Ali Abualia	**Time:**	3:32pm-3:42pm
Location:	7255 Schaefer Avenue Ontario, CA 91762		
Noise Sources:	Cars and trucks on Schaefer Avenue		
Comments:			

Results (dBA):

	Leq:	**Lmin:**	**Lmax:**	**Peak:**
Measurement 1:	73.0	46.0	86.4	101.5

Equipment	
Sound Level Meter:	LD SoundExpert LxT
Calibrator:	CAL200
Response Time:	Slow
Weighting:	A
Microphone Height:	5 feet

Weather	
Temp. (degrees F):	71
Wind (mph):	8
Sky:	Clear
Bar. Pressure:	30.16
Humidity:	22%

Photo:



Kimley»Horn

Measurement Report

Report Summary

Meter's File Name	ST-.058.s	Computer's File Name	LxTse_0007061-20230208 153241-ST-.058.ldbin
Meter	LxT SE 0007061	Firmware	2.404
User		Location	
Job Description			
Note			

Start Time	2023-02-08 15:32:41	Duration	0:10:00.0		
End Time	2023-02-08 15:42:41	Run Time	0:10:00.0	Pause Time	0:00:00.0
Pre-Calibration	2023-02-08 07:36:29	Post-Calibration	None	Calibration Deviation	---

Results

Overall Metrics

LA_{eq}	73.0 dB		
LAE	100.8 dB	SEA	--- dB
EA	1.3 mPa²h		
LA_{peak}	101.5 dB	2023-02-08 15:39:10	
LAS_{max}	86.4 dB	2023-02-08 15:39:10	
LAS_{min}	46.0 dB	2023-02-08 15:33:59	
LA_{eq}	73.0 dB		
LC_{eq}	78.0 dB	LC_{eq} - LA_{eq}	5.0 dB
LAI_{eq}	76.1 dB	LAI_{eq} - LA_{eq}	3.1 dB

Exceedances

	Count	Duration
LAS > 85.0 dB	1	0:00:01.7
LAS > 115.0 dB	0	0:00:00.0
LApeak > 135.0 dB	0	0:00:00.0
LApeak > 137.0 dB	0	0:00:00.0
LApeak > 140.0 dB	0	0:00:00.0

Community Noise

LDN	LDay	LNight
73.0 dB	73.0 dB	0.0 dB

LDEN	LDay	LEve	LNight
73.0 dB	73.0 dB	--- dB	--- dB

Any Data

	A		C		Z	
	Level	Time Stamp	Level	Time Stamp	Level	Time Stamp
L_{eq}	73.0 dB		78.0 dB		--- dB	
$LS_{(max)}$	86.4 dB	2023-02-08 15:39:10	--- dB	None	--- dB	None
$LS_{(min)}$	46.0 dB	2023-02-08 15:33:59	--- dB	None	--- dB	None
$L_{Peak(max)}$	101.5 dB	2023-02-08 15:39:10	--- dB	None	--- dB	None

Overloads

Count	Duration	OBA Count	OBA Duration
0	0:00:00.0	0	0:00:00.0

Statistics

LAS 5.0	79.1 dB
LAS 10.0	77.5 dB
LAS 33.3	72.3 dB
LAS 50.0	66.4 dB
LAS 66.6	60.2 dB
LAS 90.0	50.8 dB

Project: Euclid MUSP

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

	Receptor (Land Use)	Distance (feet)	Shielding	Direction
1	Single Family Residence	900	0	W
2	B	2	0	S
3	C	3	0	E
4	D	4	0	W
5	E	5	0	NW
6	F	6	0	NE
7	G	7	0	SW

					RECEPTOR 1		RECEPTOR 2		RECEPTOR 3		RECEPTOR 4		RECEPTOR 5		RECEPTOR 6		RECEPTOR 7	
Construction Phase	**Equipment Type**	**No. of Equip.**	**Acoustical Usage Factor**	**Reference Noise Level at 50ft per Unit, Lmax**	**Noise Level at Receptor 1, Lmax**	**Noise Level at Receptor 1, Leq**	**Noise Level at Receptor 2, Lmax**	**Noise Level at Receptor 2, Leq**	**Noise Level at Receptor 3, Lmax**	**Noise Level at Receptor 3, Leq**	**Noise Level at Receptor 4, Lmax**	**Noise Level at Receptor 4, Leq**	**Noise Level at Receptor 5, Lmax**	**Noise Level at Receptor 5, Leq**	**Noise Level at Receptor 6, Lmax**	**Noise Level at Receptor 6, Leq**	**Noise Level at Receptor 7, Lmax**	**Noise Level at Receptor 7, Leq**
Demolition																		
	Dozer	2	40%	82	59.6	55.6	112.7	108.7	109.1	105.2	106.6	102.7	104.7	100.7	103.1	99.1	101.8	97.8
	Excavator	3	40%	81	60.4	56.4	113.4	109.5	109.9	105.9	107.4	103.4	105.5	101.5	103.9	99.9	102.5	98.6
	Concrete Saw	1	20%	90	64.5	57.5	117.6	110.6	114.0	107.0	111.5	104.5	109.6	102.6	108.0	101.0	106.7	99.7
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**61.3**		**114.4**		**110.9**		**108.4**		**106.5**		**104.9**		**103.5**
Site Preparation																		
	Dozer	3	40%	82	61.4	57.4	114.4	110.5	110.9	106.9	108.4	104.4	106.5	102.5	104.9	100.9	103.5	99.6
	Tractor	4	40%	84	64.9	60.9	118.0	114.0	114.5	110.5	112.0	108.0	110.0	106.0	108.4	104.5	107.1	103.1
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**62.5**		**115.6**		**112.1**		**109.6**		**107.6**		**106.0**		**104.7**
Grading																		
	Grader	1	40%	85	59.9	55.9	113.0	109.0	109.4	105.5	106.9	103.0	105.0	101.0	103.4	99.4	102.1	98.1
	Excavator	2	40%	81	58.6	54.6	111.7	107.7	108.1	104.2	105.6	101.7	103.7	99.7	102.1	98.1	100.8	96.8
	Tractor	2	40%	84	61.9	57.9	115.0	111.0	111.4	107.5	108.9	105.0	107.0	103.0	105.4	101.4	104.1	100.1
	Scraper	2	40%	84	61.5	57.5	114.6	110.6	111.0	107.1	108.5	104.6	106.6	102.6	105.0	101.0	103.7	99.7
	Dozer	1	40%	82	56.6	52.6	109.7	105.7	106.1	102.2	103.6	99.7	101.7	97.7	100.1	96.1	98.8	94.8
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**63.1**		**116.2**		**112.7**		**110.2**		**108.2**		**106.6**		**105.3**
Building Construction																		
	Man Lift	3	20%	75	54.4	47.4	107.4	100.4	103.9	96.9	101.4	94.4	99.5	92.5	97.9	90.9	96.5	89.6
	Generator	1	50%	81	55.5	52.5	108.6	105.5	105.0	102.0	102.5	99.5	100.6	97.6	99.0	96.0	97.7	94.7
	Crane	1	16%	81	55.5	47.5	108.6	100.6	105.0	97.1	102.5	94.6	100.6	92.6	99.0	91.1	97.7	89.7
	Welder/Torch	1	40%	74	48.9	44.9	102.0	98.0	98.4	94.5	95.9	92.0	94.0	90.0	92.4	88.4	91.1	87.1
	Tractor	3	40%	84	63.7	59.7	116.7	112.8	113.2	109.2	110.7	106.7	108.8	104.8	107.2	103.2	105.8	101.9
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**61.0**		**114.0**		**110.5**		**108.0**		**106.1**		**104.5**		**103.2**
Paving																		
	Paver	2	50%	77	55.1	52.1	108.2	105.2	104.6	101.6	102.1	99.1	100.2	97.2	98.6	95.6	97.3	94.3
	Roller	2	20%	80	57.9	50.9	111.0	104.0	107.4	100.5	104.9	98.0	103.0	96.0	101.4	94.4	100.1	93.1
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**54.6**		**107.6**		**104.1**		**101.6**		**99.7**		**98.1**		**96.7**
Construction Phase																		
		0	#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**10.8**		**10.8**		**10.8**		**10.8**		**10.8**		**10.8**		**10.8**
Construction Phase																		
		0	#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**10.8**		**10.8**		**10.8**		**10.8**		**10.8**		**10.8**		**10.8**
Overlapping Phases																		
Site Prep + Grading						65.8		118.9		115.4		112.9		110.9		109.4		108.0
Building Construction + Paving						61.9		114.9		111.4		108.9		107.0		105.4		104.0
Overlapping Phases						61.9		114.9		111.4		108.9		107.0		105.4		104.0
Overlapping Phases						61.9		114.9		111.4		108.9		107.0		105.4		104.0
Maximum Noise Level						**65.8**		**118.9**		**115.4**		**112.9**		**110.9**		**109.4**		**108.0**

Source for Ref. Noise Levels: RCNM, 2005

Project: Euclid MUSP

Construction Noise Impact on Sensitive Receptors

Parameters

Construction Hours:	Daytime hours (7 am to 7 pm)	8
	Evening hours (7 pm to 10 pm)	0
	Nighttime hours (10 pm to 7 am)	0
Leq to L10 factor		3

	Receptor (Land Use)	Distance (feet)	Shielding	Direction
1	Single Family Residence	900	0	S
2	B	2	0	S
3	C	3	0	E
4	D	4	0	W
5	E	5	0	NW
6	F	6	0	NE
7	G	7	0	SW

					RECEPTOR 1		RECEPTOR 2		RECEPTOR 3		RECEPTOR 4		RECEPTOR 5		RECEPTOR 6		RECEPTOR 7	
Construction Phase	**Equipment Type**	**No. of Equip.**	**Acoustical Usage Factor**	**Reference Noise Level at 50ft per Unit, Lmax**	**Noise Level at Receptor 1, Lmax**	**Noise Level at Receptor 1, Leq**	**Noise Level at Receptor 2, Lmax**	**Noise Level at Receptor 2, Leq**	**Noise Level at Receptor 3, Lmax**	**Noise Level at Receptor 3, Leq**	**Noise Level at Receptor 4, Lmax**	**Noise Level at Receptor 4, Leq**	**Noise Level at Receptor 5, Lmax**	**Noise Level at Receptor 5, Leq**	**Noise Level at Receptor 6, Lmax**	**Noise Level at Receptor 6, Leq**	**Noise Level at Receptor 7, Lmax**	**Noise Level at Receptor 7, Leq**
Demolition																		
	Dozer	2	40%	82	59.6	55.6	112.7	108.7	109.1	105.2	106.6	102.7	104.7	100.7	103.1	99.1	101.8	97.8
	Excavator	3	40%	81	60.4	56.4	113.4	109.5	109.9	105.9	107.4	103.4	105.5	101.5	103.9	99.9	102.5	98.6
	Concrete Saw	1	20%	90	64.5	57.5	117.6	110.6	114.0	107.0	111.5	104.5	109.6	102.6	108.0	101.0	106.7	99.7
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**61.3**		**114.4**		**110.9**		**108.4**		**106.5**		**104.9**		**103.5**
Site Preparation																		
	Dozer	3	40%	82	61.4	57.4	114.4	110.5	110.9	106.9	108.4	104.4	106.5	102.5	104.9	100.9	103.5	99.6
	Tractor	4	40%	84	64.9	60.9	118.0	114.0	114.5	110.5	112.0	108.0	110.0	106.0	108.4	104.5	107.1	103.1
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**62.5**		**115.6**		**112.1**		**109.6**		**107.6**		**106.0**		**104.7**
Grading																		
	Grader	1	40%	85	59.9	55.9	113.0	109.0	109.4	105.5	106.9	103.0	105.0	101.0	103.4	99.4	102.1	98.1
	Excavator	2	40%	81	58.6	54.6	111.7	107.7	108.1	104.2	105.6	101.7	103.7	99.7	102.1	98.1	100.8	96.8
	Tractor	2	40%	84	61.9	57.9	115.0	111.0	111.4	107.5	108.9	105.0	107.0	103.0	105.4	101.4	104.1	100.1
	Scraper	2	40%	84	61.5	57.5	114.6	110.6	111.0	107.1	108.5	104.6	106.6	102.6	105.0	101.0	103.7	99.7
	Dozer	1	40%	82	56.6	52.6	109.7	105.7	106.1	102.2	103.6	99.7	101.7	97.7	100.1	96.1	98.8	94.8
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**63.1**		**116.2**		**112.7**		**110.2**		**108.2**		**106.6**		**105.3**
Building Construction																		
	Man Lift	3	20%	75	54.4	47.4	107.4	100.4	103.9	96.9	101.4	94.4	99.5	92.5	97.9	90.9	96.5	89.6
	Generator	1	50%	81	55.5	52.5	108.6	105.5	105.0	102.0	102.5	99.5	100.6	97.6	99.0	96.0	97.7	94.7
	Crane	1	16%	81	55.5	47.5	108.6	100.6	105.0	97.1	102.5	94.6	100.6	92.6	99.0	91.1	97.7	89.7
	Welder/Torch	1	40%	74	48.9	44.9	102.0	98.0	98.4	94.5	95.9	92.0	94.0	90.0	92.4	88.4	91.1	87.1
	Tractor	3	40%	84	63.7	59.7	116.7	112.8	113.2	109.2	110.7	106.7	108.8	104.8	107.2	103.2	105.8	101.9
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**61.0**		**114.0**		**110.5**		**108.0**		**106.1**		**104.5**		**103.2**
Paving																		
	Paver	2	50%	77	55.1	52.1	108.2	105.2	104.6	101.6	102.1	99.1	100.2	97.2	98.6	95.6	97.3	94.3
	Roller	2	20%	80	57.9	50.9	111.0	104.0	107.4	100.5	104.9	98.0	103.0	96.0	101.4	94.4	100.1	93.1
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**54.6**		**107.6**		**104.1**		**101.6**		**99.7**		**98.1**		**96.7**
Architectural Coating																		
	Compressor (air)	1	40%	78	52.6	48.6	105.7	101.7	102.1	98.2	99.6	95.7	97.7	93.7	96.1	92.1	94.8	90.8
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**48.6**		**101.7**		**98.2**		**95.7**		**93.7**		**92.1**		**90.8**
Construction Phase																		
		0	#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**10.8**		**10.8**		**10.8**		**10.8**		**10.8**		**10.8**		**10.8**
Construction Phase																		
		0	#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
			#N/A	#N/A	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	USER DEFINED				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Combined LEQ						**10.8**		**10.8**		**10.8**		**10.8**		**10.8**		**10.8**		**10.8**
Overlapping Phases																		
Overlapping Phases						65.8		118.9		115.4		112.9		110.9		109.4		108.0
Overlapping Phases						61.9		114.9		111.4		108.9		107.0		105.4		104.0
Overlapping Phases						61.9		114.9		111.4		108.9		107.0		105.4		104.0
Overlapping Phases						61.9		114.9		111.4		108.9		107.0		105.4		104.0
Maximum Noise Level						**65.8**		**118.9**		**115.4**		**112.9**		**110.9**		**109.4**		**108.0**

Source for Ref. Noise Levels: RCNM, 2005

Nearest Land Use	Distance (feet)	Reference Level at 50 ft (dBA)	Noise Level at Receiver (dBA)[5]
Mechanical Equipment [1]			
Sensitive Receptor 1	170	52	41.4
Sensitive Receptor 2	190		40.4
Sensitive Receptor 3	140		43.1
Sensitive Receptor 4	370		34.6
Loading Area [2]			
Sensitive Receptor 1	270	64	49.4
Sensitive Receptor 2	260		49.7
Sensitive Receptor 3	>1000		<38.0
Sensitive Receptor 4	575		42.8
Parking Area [3]			
Sensitive Receptor 1	320	61	44.9
Sensitive Receptor 2	140		52.1
Sensitive Receptor 3	420		42.5
Sensitive Receptor 4	190		49.4
Drive-Thru			
Sensitive Receptor 1	>1000	56	<30.0
Sensitive Receptor 2	>1000		<30.0
Sensitive Receptor 3	160		45.9
Sensitive Receptor 4	800		31.9

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Euclid Mixed Use Specific Plan
Project Number: 195242005
Scenario: Existing
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

								Vehicle Mix			Distance from Centerline of Roadway			
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Euclid Avenue	SR-60 WB Ramp to SR-60 EB Ramp	4	35	53,133	40	0	2.0%	1.0%	69.7	89	282	892	2,820
2	Euclid Avenue	SR-60 EB Ramp to Walnut Avenue	4	35	57,775	40	0	2.0%	1.0%	70.0	97	306	968	3,061
3	Euclid Avenue	Walnut Avenue to Riverside Drive	4	35	43,539	40	0	2.0%	1.0%	68.8	73	230	728	2,303
4	Euclid Avenue	Riverside Drive to Chino Avenue	4	35	39,579	40	0	2.0%	1.0%	68.3	66	209	661	2,090
5	Euclid Avenue	Chino Avenue to Schaefer Avenue	4	35	36,780	50	0	2.0%	1.0%	70.2	103	326	1,031	3,262
6	Euclid Avenue	Schaefer Avenue to Project Driveway 1	4	35	34,742	50	0	2.0%	1.0%	69.9	97	308	973	3,077
7	Euclid Avenue	Driveway 1 to Driveway 4	4	35	30,338	50	0	2.0%	1.0%	69.3	85	269	850	2,687
8	Euclid Avenue	Driveway 4 to Edison Avenue	4	35	38,099	50	0	2.0%	1.0%	70.3	107	337	1,067	3,374
9	Euclid Avenue	Edison Avenue to Eucalyptus Avenue	4	35	43,376	50	0	2.0%	1.0%	70.8	121	384	1,215	3,841
10	Euclid Avenue	Eucalyptus Avenue to Merrill Avenue	4	35	42,026	50	0	2.0%	1.0%	70.7	118	372	1,177	3,722
11	Euclid Avenue	Merrill Avenue to Kimball Avenue	4	35	38,369	55	0	2.0%	1.0%	71.3	135	428	1,354	4,283
12	Schafer Avenue	Euclid Avenue to Project Driveway 5	2	10	14,161	45	0	2.0%	1.0%	64.6	-	92	291	919
13	Schafer Avenue	Project Driveway 5 to Project Driveway 7	2	10	9,716	45	0	2.0%	1.0%	62.9	-	63	199	630
14	Schafer Avenue	Project Driveway 7 to Sultana Avenue	2	10	9,876	45	0	2.0%	1.0%	62.9	-	64	203	641
15	Schafer Avenue	Sultana Drive to Bon View Avenue	2	10	9,217	45	0	2.0%	1.0%	62.6	-	60	189	598
16	Schafer Avenue	Bon View Avenue to Grove Avenue	2	10	7,522	45	0	2.0%	1.0%	61.7	-	49	154	488
17	Edison Avenue	Euclid Avenue to Project Driveway 8	2	10	20,081	50	0	2.0%	1.0%	67.1	53	167	529	1,672
18	Edison Avenue	Project Driveway 8 to Project Driveway 10	2	10	16,492	50	0	2.0%	1.0%	66.2	43	137	434	1,373
19	Edison Avenue	Project Driveway 10 to Sultana Drive	2	10	16,690	50	0	2.0%	1.0%	66.2	44	139	439	1,389
20	Edison Avenue	Sultana Drive to Bon View Avenue	2	10	15,563	50	0	2.0%	1.0%	65.9	41	130	410	1,295
21	Edison Avenue	Bon View Avenue to Grove Avenue	2	10	15,875	50	0	2.0%	1.0%	65.9	42	132	418	1,321

[1] Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Euclid Mixed Use Specific Plan
Project Number: 195242005
Scenario: Existing Plus Project
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

									Vehicle Mix		Distance from Centerline of Roadway			
					Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment		Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Euclid Avenue	SR-60 WB Ramp to SR-60 EB Ramp		4	35	55,847	40	0	2.0%	1.0%	69.7	93	294	930	2,940
2	Euclid Avenue	SR-60 EB Ramp to Walnut Avenue		4	35	60,773	40	0	2.0%	1.0%	70.1	101	320	1,012	3,200
3	Euclid Avenue	Walnut Avenue to Riverside Drive		4	35	47,599	40	0	2.0%	1.0%	69.0	79	251	793	2,506
4	Euclid Avenue	Riverside Drive to Chino Avenue		4	35	44,093	40	0	2.0%	1.0%	68.7	73	232	734	2,322
5	Euclid Avenue	Chino Avenue to Schaefer Avenue		4	35	41,602	50	0	2.0%	1.0%	70.7	116	368	1,165	3,684
6	Euclid Avenue	Schaefer Avenue to Project Driveway		4	35	39,986	50	0	2.0%	1.0%	70.5	112	354	1,120	3,541
7	Euclid Avenue	Driveway 1 to Driveway 4		4	35	35,858	50	0	2.0%	1.0%	70.0	100	317	1,003	3,171
8	Euclid Avenue	Driveway 4 to Edison Avenue		4	35	42,293	50	0	2.0%	1.0%	70.6	118	373	1,181	3,735
9	Euclid Avenue	Edison Avenue to Eucalyptus Avenue		4	35	47,263	50	0	2.0%	1.0%	71.2	132	419	1,324	4,185
10	Euclid Avenue	Eucalyptus Avenue to Merrill Avenue		4	35	44,640	50	0	2.0%	1.0%	71.0	125	395	1,250	3,953
11	Euclid Avenue	Merrill Avenue to Kimball Avenue		4	35	40,087	55	0	2.0%	1.0%	71.5	142	447	1,415	4,475
12	Schafer Avenue	Euclid Avenue to Project Driveway 5		2	10	15,084	45	0	2.0%	1.0%	64.9	-	98	309	979
13	Schafer Avenue	Project Driveway 5 to Project Driveway		2	10	10,650	45	0	2.0%	1.0%	63.3	-	69	218	691
14	Schafer Avenue	Project Driveway 7 to Sultana Avenue		2	10	10,512	45	0	2.0%	1.0%	63.2	-	68	216	682
15	Schafer Avenue	Sultana Drive to Bon View Avenue		2	10	9,567	45	0	2.0%	1.0%	62.8	-	62	196	621
16	Schafer Avenue	Bon View Avenue to Grove Avenue		2	10	7,722	45	0	2.0%	1.0%	61.8	-	50	158	501
17	Edison Avenue	Euclid Avenue to Project Driveway 8		2	10	23,706	50	0	2.0%	1.0%	67.8	62	197	624	1,974
18	Edison Avenue	Project Driveway 8 to Project Driveway		2	10	22,141	50	0	2.0%	1.0%	67.5	58	184	583	1,843
19	Edison Avenue	Project Driveway 10 to Sultana Drive		2	10	23,346	50	0	2.0%	1.0%	67.7	61	194	615	1,943
20	Edison Avenue	Sultana Drive to Bon View Avenue		2	10	21,995	50	0	2.0%	1.0%	67.4	58	183	579	1,831
21	Edison Avenue	Bon View Avenue to Grove Avenue		2	10	23,239	50	0	2.0%	1.0%	67.6	61	193	612	1,934

1 Distance is from the centerline of the roadway segment to the receptor location.
2 Distance is from the centerline of the roadway segment to the receptor location.

FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Euclid Mixed Use Specific Plan
Project Number: 195242005
Scenario: Opening Year
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

									Vehicle Mix		Distance from Centerline of Roadway			
					Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment		Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Euclid Avenue	SR-60 WB Ramp to SR-60 EB Ramp		4	35	72,792	40	0	2.0%	1.0%	70.8	121	383	1,212	3,833
2	Euclid Avenue	SR-60 EB Ramp to Walnut Avenue		4	35	85,177	40	0	2.0%	1.0%	71.5	142	448	1,418	4,485
3	Euclid Avenue	Walnut Avenue to Riverside Drive		4	35	77,713	40	0	2.0%	1.0%	71.1	129	409	1,294	4,092
4	Euclid Avenue	Riverside Drive to Chino Avenue		4	35	75,066	40	0	2.0%	1.0%	71.0	125	395	1,250	3,952
5	Euclid Avenue	Chino Avenue to Schaefer Avenue		4	35	72,518	50	0	2.0%	1.0%	73.1	203	642	2,031	6,422
6	Euclid Avenue	Schaefer Avenue to Project Driveway		4	35	70,493	50	0	2.0%	1.0%	73.0	197	624	1,974	6,242
7	Euclid Avenue	Driveway 1 to Driveway 4		4	35	64,610	50	0	2.0%	1.0%	72.5	181	571	1,807	5,713
8	Euclid Avenue	Driveway 4 to Edison Avenue		4	35	72,453	50	0	2.0%	1.0%	73.0	202	640	2,023	6,398
	Euclid Avenue	Edison Avenue to Eucalyptus Avenue		4	35	74,793	50	0	2.0%	1.0%	73.2	209	662	2,094	6,623
	Euclid Avenue	Eucalyptus Avenue to Merrill Avenue		4	35	72,932	50	0	2.0%	1.0%	73.1	204	646	2,042	6,458
	Euclid Avenue	Merrill Avenue to Kimball Avenue		4	35	64,852	55	0	2.0%	1.0%	73.6	229	724	2,289	7,240
	Schafer Avenue	Euclid Avenue to Project Driveway 5		2	10	19,186	45	0	2.0%	1.0%	65.9	39	124	394	1,245
	Schafer Avenue	Project Driveway 5 to Project Driveway		2	10	11,876	45	0	2.0%	1.0%	63.8	-	77	244	770
	Schafer Avenue	Project Driveway 7 to Sultana Avenue		2	10	12,053	45	0	2.0%	1.0%	63.8	-	78	247	782
	Schafer Avenue	Sultana Drive to Bon View Avenue		2	10	11,325	45	0	2.0%	1.0%	63.5	-	73	232	735
	Schafer Avenue	Bon View Avenue to Grove Avenue		2	10	9,287	45	0	2.0%	1.0%	62.6	-	60	190	602
	Edison Avenue	Euclid Avenue to Project Driveway 8		2	10	28,341	50	0	2.0%	1.0%	68.6	75	236	746	2,360
	Edison Avenue	Project Driveway 8 to Project Driveway		2	10	19,120	50	0	2.0%	1.0%	66.8	50	159	503	1,592
	Edison Avenue	Project Driveway 10 to Sultana Drive		2	10	19,339	50	0	2.0%	1.0%	66.9	51	161	509	1,610
	Edison Avenue	Sultana Drive to Bon View Avenue		2	10	24,489	50	0	2.0%	1.0%	67.8	64	204	645	2,038
	Edison Avenue	Bon View Avenue to Grove Avenue		2	10	25,359	50	0	2.0%	1.0%	67.9	67	211	667	2,110

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FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Euclid Mixed Use Specific Plan
Project Number: 195242005
Scenario: Opening Year Plus Project
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

									Vehicle Mix		Distance from Centerline of Roadway			
					Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment		Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Euclid Avenue	SR-60 WB Ramp to SR-60 EB Ramp		4	35	73,347	40	0	2.0%	1.0%	70.9	122	386	1,221	3,862
2	Euclid Avenue	SR-60 EB Ramp to Walnut Avenue		4	35	86,008	40	0	2.0%	1.0%	71.6	143	453	1,432	4,528
3	Euclid Avenue	Walnut Avenue to Riverside Drive		4	35	78,821	40	0	2.0%	1.0%	71.2	131	415	1,312	4,150
4	Euclid Avenue	Riverside Drive to Chino Avenue		4	35	76,218	40	0	2.0%	1.0%	71.0	127	401	1,269	4,013
5	Euclid Avenue	Chino Avenue to Schaefer Avenue		4	35	73,592	50	0	2.0%	1.0%	73.1	206	652	2,061	6,517
6	Euclid Avenue	Schaefer Avenue to Project Driveway		4	35	71,795	50	0	2.0%	1.0%	73.0	201	636	2,010	6,358
7	Euclid Avenue	Driveway 1 to Driveway 4		4	35	66,018	50	0	2.0%	1.0%	72.6	185	584	1,846	5,838
8	Euclid Avenue	Driveway 4 to Edison Avenue		4	35	73,441	50	0	2.0%	1.0%	73.0	205	649	2,051	6,485
9	Euclid Avenue	Edison Avenue to Eucalyptus Avenue		4	35	75,721	50	0	2.0%	1.0%	73.3	212	671	2,120	6,705
10	Euclid Avenue	Eucalyptus Avenue to Merrill Avenue		4	35	73,482	50	0	2.0%	1.0%	73.1	206	651	2,058	6,507
11	Euclid Avenue	Merrill Avenue to Kimball Avenue		4	35	65,314	55	0	2.0%	1.0%	73.6	231	729	2,306	7,291
12	Schafer Avenue	Euclid Avenue to Project Driveway 5		2	10	19,847	45	0	2.0%	1.0%	66.1	41	129	407	1,288
13	Schafer Avenue	Project Driveway 5 to Project Driveway		2	10	12,555	45	0	2.0%	1.0%	64.0	-	81	258	815
14	Schafer Avenue	Project Driveway 7 to Sultana Avenue		2	10	12,507	45	0	2.0%	1.0%	64.0	-	81	257	811
15	Schafer Avenue	Sultana Drive to Bon View Avenue		2	10	11,733	45	0	2.0%	1.0%	63.6	-	76	241	761
16	Schafer Avenue	Bon View Avenue to Grove Avenue		2	10	9,463	45	0	2.0%	1.0%	62.7	-	61	194	614
17	Edison Avenue	Euclid Avenue to Project Driveway 8		2	10	28,787	50	0	2.0%	1.0%	68.7	76	240	758	2,397
18	Edison Avenue	Project Driveway 8 to Project Driveway		2	10	19,716	50	0	2.0%	1.0%	67.0	52	164	519	1,641
19	Edison Avenue	Project Driveway 10 to Sultana Drive		2	10	20,615	50	0	2.0%	1.0%	67.1	54	172	543	1,716
20	Edison Avenue	Sultana Drive to Bon View Avenue		2	10	25,765	50	0	2.0%	1.0%	68.1	68	214	678	2,144
21	Edison Avenue	Bon View Avenue to Grove Avenue		2	10	27,197	50	0	2.0%	1.0%	68.3	72	226	716	2,263

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FHWA Highway Noise Prediction Model (FHWA-RD-77-108) with California Vehicle Noise (CALVENO) Emission Levels

Project Name: Euclid Mixed Use Specific Plan
Project Number: 195242005
Scenario: Horizon Year
Ldn/CNEL: CNEL

Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

									Vehicle Mix		Distance from Centerline of Roadway			
					Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment		Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Euclid Avenue	SR-60 WB Ramp to SR-60 EB Ramp		4	35	100,342	40	0	2.0%	1.0%	72.2	167	528	1,671	5,283
2	Euclid Avenue	SR-60 EB Ramp to Walnut Avenue		4	35	103,194	40	0	2.0%	1.0%	72.4	172	543	1,718	5,433
3	Euclid Avenue	Walnut Avenue to Riverside Drive		4	35	129,510	40	0	2.0%	1.0%	73.3	216	682	2,156	6,819
4	Euclid Avenue	Riverside Drive to Chino Avenue		4	35	127,981	40	0	2.0%	1.0%	73.3	213	674	2,131	6,738
5	Euclid Avenue	Chino Avenue to Schaefer Avenue		4	35	142,899	50	0	2.0%	1.0%	76.0	400	1,265	4,002	12,654
6	Euclid Avenue	Schaefer Avenue to Project Driveway		4	35	112,561	50	0	2.0%	1.0%	75.0	315	997	3,152	9,968
7	Euclid Avenue	Driveway 1 to Driveway 4		4	35	71,071	50	0	2.0%	1.0%	72.9	199	628	1,987	6,285
8	Euclid Avenue	Driveway 4 to Edison Avenue		4	35	92,818	50	0	2.0%	1.0%	74.1	259	820	2,592	8,196
9	Euclid Avenue	Edison Avenue to Eucalyptus Avenue		4	35	114,412	50	0	2.0%	1.0%	75.1	320	1,013	3,204	10,132
10	Euclid Avenue	Eucalyptus Avenue to Merrill Avenue		4	35	116,776	50	0	2.0%	1.0%	75.1	327	1,034	3,270	10,341
11	Euclid Avenue	Merrill Avenue to Kimball Avenue		4	35	93,463	55	0	2.0%	1.0%	75.2	330	1,043	3,299	10,433
12	Schafer Avenue	Euclid Avenue to Project Driveway 5		2	10	29,375	45	0	2.0%	1.0%	67.8	60	191	603	1,906
13	Schafer Avenue	Project Driveway 5 to Project Driveway		2	10	13,062	45	0	2.0%	1.0%	64.2	-	85	268	847
14	Schafer Avenue	Project Driveway 7 to Sultana Avenue		2	10	13,257	45	0	2.0%	1.0%	64.2	-	86	272	860
15	Schafer Avenue	Sultana Drive to Bon View Avenue		2	10	12,457	45	0	2.0%	1.0%	63.9	-	81	256	808
16	Schafer Avenue	Bon View Avenue to Grove Avenue		2	10	11,739	45	0	2.0%	1.0%	63.6	-	76	241	761
17	Edison Avenue	Euclid Avenue to Project Driveway 8		2	10	59,367	50	0	2.0%	1.0%	71.8	156	494	1,563	4,943
18	Edison Avenue	Project Driveway 8 to Project Driveway		2	10	21,032	50	0	2.0%	1.0%	67.3	55	175	554	1,751
19	Edison Avenue	Project Driveway 10 to Sultana Drive		2	10	21,272	50	0	2.0%	1.0%	67.3	56	177	560	1,771
20	Edison Avenue	Sultana Drive to Bon View Avenue		2	10	61,885	50	0	2.0%	1.0%	71.9	163	515	1,629	5,151
21	Edison Avenue	Bon View Avenue to Grove Avenue		2	10	116,730	50	0	2.0%	1.0%	74.6	307	971	3,072	9,715

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Project Name: Euclid Mixed Use Specific Plan
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Assumed 24-Hour Traffic Distribution:	Day	Evening	Night
Total ADT Volumes	77.70%	12.70%	9.60%
Medium-Duty Trucks	87.43%	5.05%	7.52%
Heavy-Duty Trucks	89.10%	2.84%	8.06%

								Vehicle Mix		Distance from Centerline of Roadway				
				Median	ADT	Speed	Alpha	Medium	Heavy	CNEL at	Distance to Contour			
#	Roadway	Segment	Lanes	Width	Volume	(mph)	Factor	Trucks	Trucks	100 Feet	70 CNEL	65 CNEL	60 CNEL	55 CNEL
1	Euclid Avenue	SR-60 WB Ramp to SR-60 EB Ramp	4	35	102,257	40	0	2.0%	1.0%	72.3	170	538	1,703	5,384
2	Euclid Avenue	SR-60 EB Ramp to Walnut Avenue	4	35	106,181	40	0	2.0%	1.0%	72.5	177	559	1,768	5,591
3	Euclid Avenue	Walnut Avenue to Riverside Drive	4	35	133,570	40	0	2.0%	1.0%	73.5	222	703	2,224	7,033
4	Euclid Avenue	Riverside Drive to Chino Avenue	4	35	132,495	40	0	2.0%	1.0%	73.4	221	698	2,206	6,976
5	Euclid Avenue	Chino Avenue to Schaefer Avenue	4	35	147,721	50	0	2.0%	1.0%	76.2	414	1,308	4,137	13,081
6	Euclid Avenue	Schaefer Avenue to Project Driveway	4	35	117,805	50	0	2.0%	1.0%	75.2	330	1,043	3,299	10,432
7	Euclid Avenue	Driveway 1 to Driveway 4	4	35	76,590	50	0	2.0%	1.0%	73.3	214	677	2,142	6,773
8	Euclid Avenue	Driveway 4 to Edison Avenue	4	35	97,012	50	0	2.0%	1.0%	74.2	271	857	2,709	8,567
9	Euclid Avenue	Edison Avenue to Eucalyptus Avenue	4	35	118,299	50	0	2.0%	1.0%	75.2	331	1,048	3,313	10,476
10	Euclid Avenue	Eucalyptus Avenue to Merrill Avenue	4	35	119,389	50	0	2.0%	1.0%	75.2	334	1,057	3,343	10,572
11	Euclid Avenue	Merrill Avenue to Kimball Avenue	4	35	95,181	55	0	2.0%	1.0%	75.3	336	1,063	3,360	10,625
12	Schafer Avenue	Euclid Avenue to Project Driveway 5	2	10	30,298	45	0	2.0%	1.0%	67.9	62	197	622	1,966
13	Schafer Avenue	Project Driveway 5 to Project Driveway	2	10	13,847	45	0	2.0%	1.0%	64.4	-	90	284	898
14	Schafer Avenue	Project Driveway 7 to Sultana Avenue	2	10	13,775	45	0	2.0%	1.0%	64.4	-	89	283	894
15	Schafer Avenue	Sultana Drive to Bon View Avenue	2	10	12,925	45	0	2.0%	1.0%	64.1	-	84	265	838
16	Schafer Avenue	Bon View Avenue to Grove Avenue	2	10	11,939	45	0	2.0%	1.0%	63.7	-	77	245	774
17	Edison Avenue	Euclid Avenue to Project Driveway 8	2	10	62,992	50	0	2.0%	1.0%	72.1	166	524	1,659	5,245
18	Edison Avenue	Project Driveway 8 to Project Driveway	2	10	26,681	50	0	2.0%	1.0%	68.3	70	222	702	2,221
19	Edison Avenue	Project Driveway 10 to Sultana Drive	2	10	27,928	50	0	2.0%	1.0%	68.5	74	232	735	2,325
20	Edison Avenue	Sultana Drive to Bon View Avenue	2	10	68,317	50	0	2.0%	1.0%	72.3	180	569	1,798	5,686
21	Edison Avenue	Bon View Avenue to Grove Avenue	2	10	124,094	50	0	2.0%	1.0%	74.8	327	1,033	3,266	10,328

1 Distance is from the centerline of the roadway segment to the receptor location.
"-" = contour is located within the roadway right-of-way.

APPENDIX I

TRANSPORTATION REPORTS

APPENDIX I1

TRAFFIC ANALYSIS

URBAN | CROSSROADS

EUCLID MIXED-USE SPECIFIC PLAN

TRAFFIC ANALYSIS

PREPARED BY: Charlene So, PE | cso@urbanxroads.com
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Reference Number	Agency	Date
15045-03 TA Report	City of Ontario	August 18, 2023

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LIST OF ABBREVIATED TERMS

(1)	Reference
ADT	Average Daily Traffic
CA MUTCD	California Manual on Uniform Traffic Control Devices
Caltrans	California Department of Transportation
CCI	Construction Cost Index
CMP	Congestion Management Program
DIF	Development Impact Fee
E+P	Existing Plus Project
HCM	Highway Capacity Manual
ITE	Institute of Transportation Engineers
LOS	Level of Service
NCHRP	National Cooperative Highway Research Program
PCE	Passenger Car Equivalent
PHF	Peak Hour Factor
Project	Euclid Mixed-Use Specific Plan
SBCTA	San Bernardino County Transportation Authority
SBTAM	San Bernardino Transportation Analysis Model
SCAQMD	South Coast Air Quality Management District
TA	Traffic Analysis
TOP	The Ontario Plan
v/c	Volume to Capacity
vphgpl	Vehicles per Hour Green per Lane

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1 INTRODUCTION

This report presents the results of the Traffic Analysis (TA) for Euclid Mixed-Use Specific Plan ("Project"), which is bounded by Euclid Avenue (SR-83) to the west, Schaefer Avenue to the north, Ontario Ranch Road/Edison Avenue to the south, and Sultana Avenue to the east within the City of Ontario, as shown on Exhibit 1-1. The purpose of this TA is to evaluate the potential circulation system deficiencies that may result from the development of the proposed Project, and where necessary recommend improvements to achieve acceptable operations consistent with General Plan level of service goals and policies. This traffic study has been prepared in accordance with the County of San Bernardino's Traffic Impact Study Guidelines and consultation with City staff during the traffic study scoping process. (1) The City approved Project Traffic Study Scoping agreement is provided in Appendix 1.1 of this TA.

1.1 PROJECT OVERVIEW

Exhibit 1-1 illustrates the location map for the proposed Project and Exhibit 1-2 shows the proposed land use plan. The proposed Project is to consist of the following uses:

1. Planning Area 1 (Business Park): 135,841 square feet of business park uses fronting Euclid Avenue (SR-83) and 399,135 square feet of warehousing use
2. Planning Area 2 (Business Park): 55,537 square feet of business park uses fronting Euclid Avenue (SR-83) and 450,784 square feet of warehousing use
3. Planning Area 3A (Mixed Use): 122,898 square feet of warehousing use and 30,225 square feet of commercial retail use (10,000 square feet of fast-food restaurant use without drive-through window, 10,000 square feet of fast-food restaurant with drive-through window, and 10,225 square feet of retail space)
4. Planning Area 3B (Mixed Use): 466 multifamily residential dwelling units
5. Planning Area 4 (Truck/Trailer Parking): 7.4 acres
6. Planning area 5 (Truck/Trailer Parking): 4.8 acres

Note that Planning Area 3B and portions of Planning Areas 2 and 3A, shown as "Future Development" on Exhibit 1-2, are not controlled by the Project Applicant. Project Buildout is anticipated in Year 2027. Access to the proposed Project would be provided to the surrounding roadways of Schaefer Avenue to the north, Euclid Avenue to the west, Edison Avenue to the south, and Sultana Avenue to the east.

Regional access to the Project site is available from the SR-60 Freeway via Euclid Avenue and the I-15 Freeway via Cantu Galleano Road. Exhibit 1-3 depicts the location of the proposed Project in relation to the existing roadway network and the study area intersections.

The proposed Project, not including the Future Development uses, is anticipated to generate 2,228 two-way trip-ends per day in actual vehicles, with 212 actual AM peak hour trips and 218 actual PM peak hour trips.

EXHIBIT 1-1: LOCATION MAP

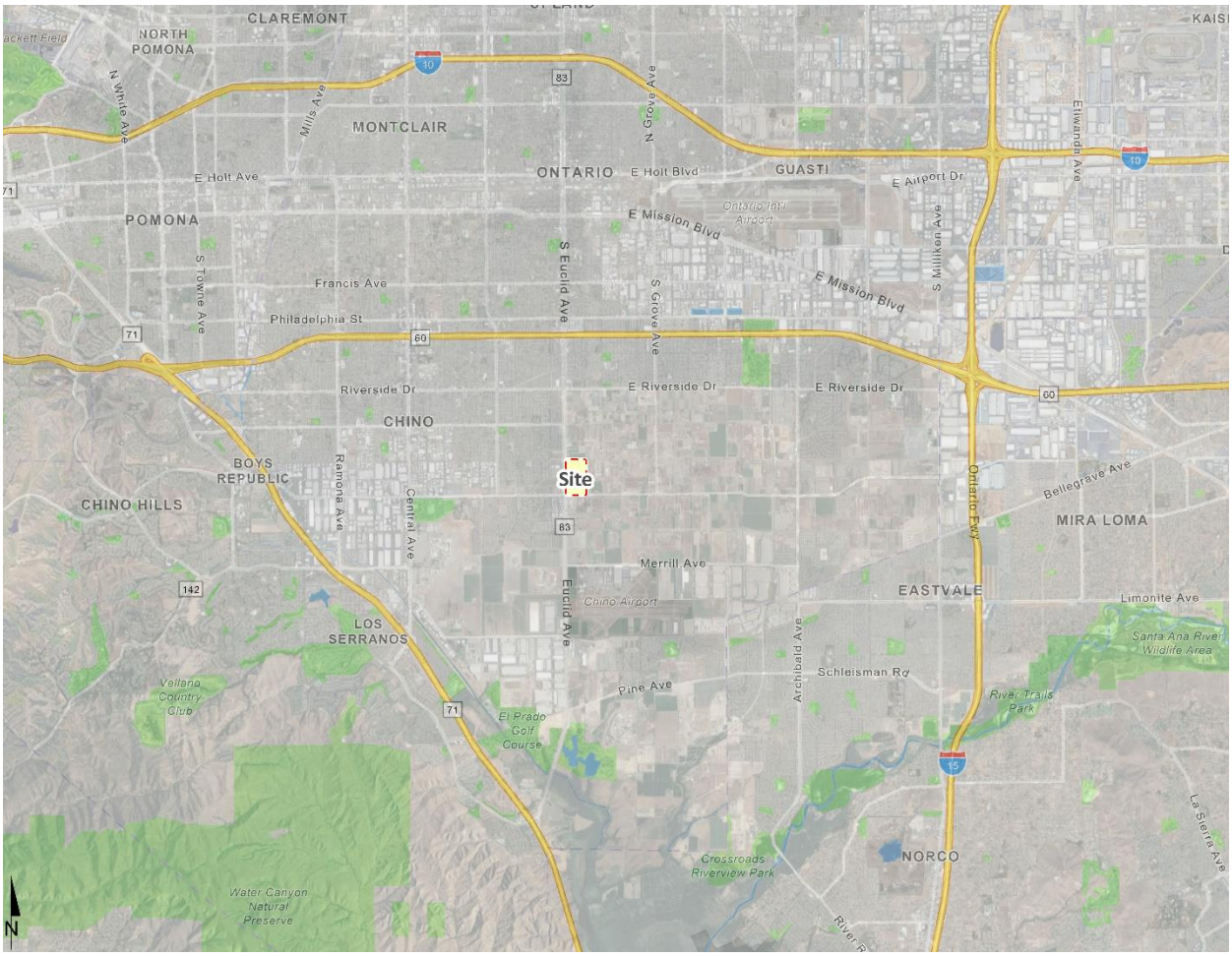
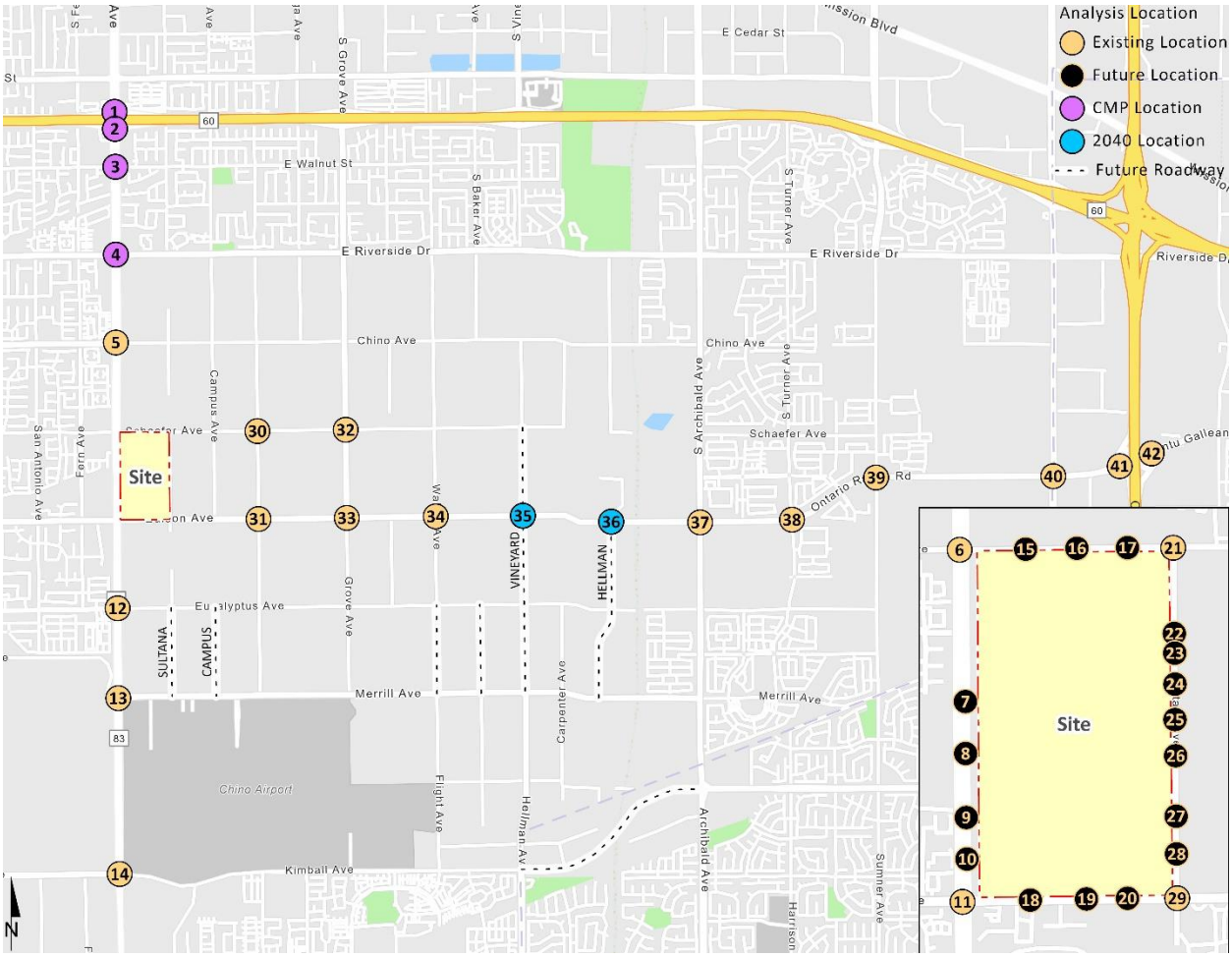


EXHIBIT 1-2: PRELIMINARY LAND USE PLAN



EXHIBIT 1-3: STUDY AREA



In order to develop the traffic characteristics of the proposed project, trip-generation statistics published in the Institute of Transportation Engineers (ITE) Trip Generation Manual (11th Edition, 2021) for the following land uses have been utilized (2):

- Industrial Park (ITE Land Use Code 130)
- Warehousing (ITE Land Use Code 150)
- Multifamily (Low-Rise) Housing (ITE Land Use Code 220)
- Strip Retail (<40,000 square feet) (ITE Land Use Code 822)

The ITE Trip Generation Manual does not currently have any trip generation rates for a truck/trailer parking lot, as such, trip generation estimates for the proposed project have been developed using data collected at other facilities with operations similar to those proposed. The assumptions and methods used to estimate the Project's trip generation characteristics are discussed in greater detail in Section 4.1 *Project Trip Generation* of this report.

1.2 ANALYSIS SCENARIOS

For the purposes of this traffic study, potential deficiencies to traffic and circulation have been assessed for each of the following conditions:

- Existing (2022)
- Existing plus Project (E+P)
- Opening Year Cumulative (2027) Without Project
- Opening Year Cumulative (2027) With Project
- Horizon Year (2050) Without Project
- Horizon Year (2050) With Project

Note that the area shown previously on Exhibit 1-2 as "Future Development" will only be evaluated for E+P and Horizon Year (2050) traffic conditions only (not to be included for Opening Year Cumulative conditions).

1.3.1 EXISTING (2022) CONDITIONS

Information for Existing (2022) conditions is disclosed to represent the baseline traffic conditions as they existed at the time this report was prepared.

1.3.2 E+P CONDITIONS

The E+P analysis determines traffic deficiencies that would occur on the existing roadway system with the addition of Project traffic. E+P traffic conditions have been evaluated in order to determine any potential off-site improvements.

1.3.3 OPENING YEAR CUMULATIVE (2027) CONDITIONS

The Opening Year Cumulative conditions analysis determines the potential near-term cumulative circulation system deficiencies. To account for background traffic growth, traffic associated with other known cumulative development projects in conjunction with an ambient growth factor from Existing conditions of 2% per year (compounded annually) are included for Opening Year Cumulative (2027) traffic conditions. The total growth factor for Opening Year Cumulative (2027) traffic conditions is 10.4% (or $1.02^{5\ years}$). Opening Year Cumulative traffic conditions have been evaluated for the proposed Project. This comprehensive list was compiled from information provided by the City of Ontario and other near-by agencies.

1.3.4 HORIZON YEAR (2050) CONDITIONS

Traffic projections for Horizon Year (2050) conditions were derived from the San Bernardino County Transportation Analysis Model (SBTAM) using accepted procedures for model forecast refinement and smoothing and is based on the currently adopted The Ontario Plan (TOP) 2050 General Plan Update, The Horizon Year conditions analysis will be utilized to determine if improvements funded through regional transportation mitigation fee programs can accommodate the long-range cumulative traffic at the target Level of Service (LOS) identified in the City of Ontario (lead agency) General Plan. Each of the applicable transportation fee programs are discussed in more detail In Section 8 *Local and Regional Funding Mechanisms*.

1.3 STUDY AREA

To ensure that this TA satisfies the City of Ontario's traffic study requirements, Urban Crossroads, Inc. prepared a Project traffic study scoping package for review by City of Ontario staff prior to the preparation of this report. This agreement provides an outline of the Project study area, trip generation, trip distribution, and analysis methodology. The agreement approved by the City is included in Appendix 1.1 of this TA.

The following 42 study area intersections shown on Exhibit 1-3 and listed in Table 1-1 were selected for this TA based on consultation with City of Ontario staff. The "50 peak hour trip" criterion utilized by the City of Ontario is consistent with the methodology employed by the County of San Bernardino, and generally represents a minimum number of trips at which a typical intersection would have the potential to be affected by a given development proposal. Although each intersection may have unique operating characteristics, this traffic engineering rule of thumb is a widely utilized tool for estimating a potential area of influence (i.e., study area). Other analysis intersections, within the adjacent cities were not selected for evaluation as the Project is anticipated to contribute less than 50 peak hour trips.

The intent of a Congestion Management Program (CMP) is to more directly link land use, transportation, and air quality, thereby prompting reasonable growth management programs that will effectively utilize new transportation funds, alleviate traffic congestion and related deficiencies, and improve air quality. Counties within California have developed CMPs with varying methods and strategies to meet the intent of the CMP legislation. Study area intersections that are identified as CMP facilities in the County of San Bernardino per the San Bernardino County Transportation Authority (SBCTA) CMP are indicated in Table 1-1. (3)

TABLE 1-1: INTERSECTION ANALYSIS LOCATIONS

#	Intersection
1	Euclid Av. (SR-83) & SR-60 WB Ramps
2	Euclid Av. (SR-83) & SR-60 EB Ramps
3	Euclid Av. (SR-83) & Walnut Av.
4	Euclid Av. (SR-83) & Riverside Dr.
5	Euclid Av. (SR-83) & Chino Av.
6	Euclid Av. (SR-83) & Schaefer Av.
7	Euclid Av. (SR-83) & Driveway 1
8	Euclid Av. (SR-83) & Driveway 2
9	Euclid Av. (SR-83) & Driveway 3
10	Euclid Av. (SR-83) & Driveway 4
11	Euclid Av. (SR-83) & Edison Av.
12	Euclid Av. (SR-83) & Eucalyptus Av.
13	Euclid Av. (SR-83) & Merrill Av.
14	Euclid Av. (SR-83) & Kimball Av.
15	Driveway 5 & Schaefer Av.
16	Driveway 6 & Schaefer Av.
17	Driveway 7 & Schaefer Av.
18	Driveway 8 & Edison Av.
19	Driveway 9 & Edison Av.
20	Driveway 10 & Edison Av.
21	Sultana Av. & Schaefer Av.
22	Sultana Av. & Driveway 11
23	Sultana Av. & Driveway 12
24	Sultana Av. & Driveway 13
25	Sultana Av. & Driveway 14
26	Sultana Av. & Driveway 15
27	Sultana Av. & Driveway 16
28	Sultana Av. & Driveway 17
29	Sultana Av. & Edison Av.
30	Bon View Av. & Schaefer Av.
31	Bon View Av. & Edison Av.
32	Grove Av. & Schaefer Av.
33	Grove Av. & Edison Av.
34	Walker Av. & Edison Av.
35	Vineyard Av. & Edison Av.
36	Hellman Av. & Edison Av.
37	Archibald Av. & Edison Av.
38	Turner Av. & Ontario Ranch Rd.
39	Haven Av. & Ontario Ranch Rd.
40	Hamner Av. & Ontario Ranch Rd.
41	I-15 SB Ramps & Cantu Galleano Ranch Rd.
42	I-15 NB Ramps & Cantu Galleano Ranch Rd.

1.4 DEFICIENCIES

This section provides a summary of deficiencies by analysis scenario. Section 2 *Methodologies* provides information on the methodologies used in the analysis and Section 3 *Area Conditions*, Section 5 *E+P Traffic Conditions*, Section 6 *Opening Year Cumulative (2027) Conditions*, and Section 7 *Horizon Year (2050) Traffic Conditions* includes the detailed analysis. A summary of Level of Service (LOS) results for all analysis scenarios is presented in Table 1-2.

1.5.1 EXISTING (2022) CONDITIONS

The following study area intersection is currently operating at an unacceptable LOS during the peak hours:

- Grove Avenue & Edison Avenue (#33) – LOS F PM peak hour only

1.5.2 E+P CONDITIONS

the following additional study area intersections are anticipated to operate at an unacceptable LOS during the peak hours under E+P traffic conditions, in addition to the intersections identified under Existing (2022) traffic conditions:

- Driveway 9 & Edison Avenue (#19) – LOS F AM peak hour only
- Bon View Avenue & Edison Avenue (#31) – LOS F AM and PM peak hours
- Grove Avenue & Edison Avenue (#33) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#34) – LOS F AM and PM peak hours

1.5.3 OPENING YEAR CUMULATIVE (2027) CONDITIONS

The following study area intersections are anticipated to operate at an unacceptable LOS during the peak hours under Opening Year Cumulative (2027) Without Project traffic conditions:

- Euclid Avenue (SR-83) & SR-60 Westbound Ramps (#1) – LOS F PM peak hour only
- Euclid Avenue (SR-83) & SR-60 Eastbound Ramps (#2) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Riverside Drive (#4) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Chino Avenue (#5) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Schaefer Avenue (#6) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Edison Avenue (#11) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Eucalyptus Avenue (#12) – LOS F AM peak hour only
- Euclid Avenue (SR-83) & Merrill Avenue (#13) – LOS F AM and PM peak hour
- Euclid Avenue (SR-83) & Merrill Avenue (#14) – LOS F PM peak hour only
- Bon View Avenue & Edison Avenue (#31) – LOS F AM and PM peak hour
- Grove Avenue & Schaefer Avenue (#32) – LOS F AM and PM peak hour
- Grove Avenue & Edison Avenue (#33) – LOS F AM and PM peak hour
- Walker Avenue & Edison Avenue (#34) – LOS F AM and PM peak hour
- Archibald Avenue & Edison Avenue (#37) – LOS F AM and PM peak hour

TABLE 1-2: SUMMARY OF LOS

#	Intersection	Existing		E+P		2027 Without Project		2027 With Project		2050 Without Project		2050 With Project	
		AM	PM	AM	PM	AM	PM	AM	PM	AM	PM	AM	PM
1	Euclid Av. (SR-83) & SR-60 WB Ramps	●	●	●	●	●	●	●	●	●	●	●	●
2	Euclid Av. (SR-83) & SR-60 EB Ramps	●	●	●	●	●	●	●	●	●	●	●	●
3	Euclid Av. (SR-83) & Walnut Av.	●	●	●	●	●	●	●	●	●	●	●	●
4	Euclid Av. (SR-83) & Riverside Dr.	●	●	●	●	●	●	●	●	●	●	●	●
5	Euclid Av. (SR-83) & Chino Av.	●	●	●	●	●	●	●	●	●	●	●	●
6	Euclid Av. (SR-83) & Schaefer Av.	●	●	●	●	●	●	●	●	●	●	●	●
7	Euclid Av. (SR-83) & Driveway 1	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
8	Euclid Av. (SR-83) & Driveway 2	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
9	Euclid Av. (SR-83) & Driveway 3	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
10	Euclid Av. (SR-83) & Driveway 4	N/A	N/A	●	●	N/A	N/A	N/A	N/A	N/A	N/A	●	●
11	Euclid Av. (SR-83) & Edison Av.	●	●	●	●	●	●	●	●	●	●	●	●
12	Euclid Av. (SR-83) & Eucalyptus Av.	●	●	●	●	●	●	●	●	●	●	●	●
13	Euclid Av. (SR-83) & Merrill Av.	●	●	●	●	●	●	●	●	●	●	●	●
14	Euclid Av. (SR-83) & Kimball Av.	●	●	●	●	●	●	●	●	●	●	●	●
15	Driveway 5 & Schaefer Av.	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
16	Driveway 6 & Schaefer Av.	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
17	Driveway 7 & Schaefer Av.	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
18	Driveway 8 & Edison Av.	N/A	N/A	●	●	N/A	N/A	N/A	N/A	N/A	N/A	●	●
19	Driveway 9 & Edison Av.	N/A	N/A	●	●	N/A	N/A	N/A	N/A	N/A	N/A	●	●
20	Driveway 10 & Edison Av.	N/A	N/A	●	●	N/A	N/A	N/A	N/A	N/A	N/A	●	●
21	Sultana Av. & Schaefer Av.	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
22	Sultana Av. & Driveway 11	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
23	Sultana Av. & Driveway 12	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
24	Sultana Av. & Driveway 13	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
25	Sultana Av. & Driveway 14	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
26	Sultana Av. & Driveway 15	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
27	Sultana Av. & Driveway 16	N/A	N/A	●	●	N/A	N/A	N/A	N/A	N/A	N/A	●	●
28	Sultana Av. & Driveway 17	N/A	N/A	●	●	N/A	N/A	N/A	N/A	N/A	N/A	●	●
29	Sultana Av. & Edison Av.	N/A	N/A	●	●	N/A	N/A	●	●	N/A	N/A	●	●
30	Bon View Av. & Schaefer Av.	●	●	●	●	●	●	●	●	●	●	●	●
31	Bon View Av. & Edison Av.	●	●	●	●	●	●	●	●	●	●	●	●
32	Grove Av. & Schaefer Av.	●	●	●	●	●	●	●	●	●	●	●	●
33	Grove Av. & Edison Av.	●	●	●	●	●	●	●	●	●	●	●	●
34	Walker Av. & Edison Av.	●	●	●	●	●	●	●	●	●	●	●	●
35	Vineyard Av. & Edison Av.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	●	●	●
36	Hellman Av. & Edison Av.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	●	●	●	●
37	Archibald Av. & Edison Av.	●	●	●	●	●	●	●	●	●	●	●	●
38	Turner Av. & Ontario Ranch Rd.	●	●	●	●	●	●	●	●	●	●	●	●
39	Haven Av. & Ontario Ranch Rd.	●	●	●	●	●	●	●	●	●	●	●	●
40	Hamner Av. & Ontario Ranch Rd.	●	●	●	●	●	●	●	●	●	●	●	●
41	I-15 SB Ramps & Cantu Galleano Ranch Rd.	●	●	●	●	●	●	●	●	●	●	●	●
42	I-15 NB Ramps & Cantu Galleano Ranch Rd.	●	●	●	●	●	●	●	●	●	●	●	●

● = A - E ● = F

The following additional study area intersections anticipated to operate at an unacceptable LOS during the peak hours with the addition of Project traffic under Opening Year Cumulative (2027) With Project traffic conditions:

- Euclid Avenue (SR-83) & SR-60 Westbound Ramps (#1) – LOS E AM peak hour

1.5.4 HORIZON YEAR (2050) CONDITIONS

The following study area intersections are anticipated to operate at an unacceptable LOS during the peak hours under Horizon Year (2050) Without Project traffic conditions:

- Euclid Avenue (SR-83) & SR-60 Westbound Ramps (#1) – LOS F AM and PM peak hour
- Euclid Avenue (SR-83) & SR-60 Eastbound Ramps (#2) – LOS F AM and PM peak hour
- Euclid Avenue (SR-83) & Riverside Drive (#4) – LOS F AM and PM peak hour
- Euclid Avenue (SR-83) & Chino Avenue (#5) – LOS F AM and PM peak hour
- Euclid Avenue (SR-83) & Schaefer Avenue (#6) – LOS F AM and PM peak hour
- Euclid Avenue (SR-83) & Edison Avenue (#11) – LOS F AM and PM peak hour
- Euclid Avenue (SR-83) & Eucalyptus Avenue (#12) – LOS F AM peak hour only
- Euclid Avenue (SR-83) & Merrill Avenue (#13) – LOS F AM and PM peak hour
- Euclid Avenue (SR-83) & Merrill Avenue (#14) – LOS F AM and PM peak hour
- Bon View Avenue & Edison Avenue (#31) – LOS F AM and PM peak hour
- Grove Avenue & Schaefer Avenue (#32) – LOS F AM and PM peak hour
- Grove Avenue & Edison Avenue (#33) – LOS F AM and PM peak hour
- Walker Avenue & Edison Avenue (#34) – LOS F AM and PM peak hour
- Vineyard Avenue & Edison Avenue (#35) – LOS F AM and PM peak hour
- Hellman Avenue & Edison Avenue (#36) – LOS F AM and PM peak hour
- Archibald Avenue & Edison Avenue (#37) – LOS F AM and PM peak hour
- Haven Avenue & Ontario Ranch Road (#39) – LOS F AM and PM peak hour
- Hamner Avenue & Ontario Ranch Road (#40) – LOS F AM and PM peak hour

The following additional study area intersections anticipated to operate at an unacceptable LOS during the peak hours with the addition of Project traffic under Horizon Year (2050) With Project traffic conditions:

- Driveway 9 & Edison Avenue (#19) – LOS F AM and PM peak hours

1.5 RECOMMENDATIONS

1.5.1 SITE ADJACENT AND SITE ACCESS RECOMMENDATIONS

The following recommendations are based on the minimum improvements needed to accommodate site access and maintain acceptable peak hour operations for the proposed Project. The site adjacent recommendations are shown on Exhibit 1-4. The City of Ontario will be installing continuous two-way left turn lanes on Sultana Avenue and Schaefer Avenue along the Project's frontages and are shown on Exhibit 1-4. The site adjacent queuing analysis worksheets are provided in Appendix 1.2.

EXHIBIT 1-4: SITE ACCESS RECOMMENDATIONS (1 OF 2)



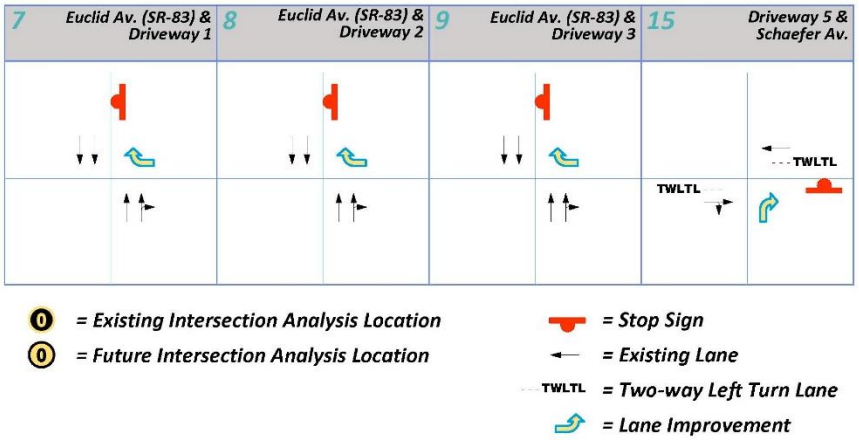
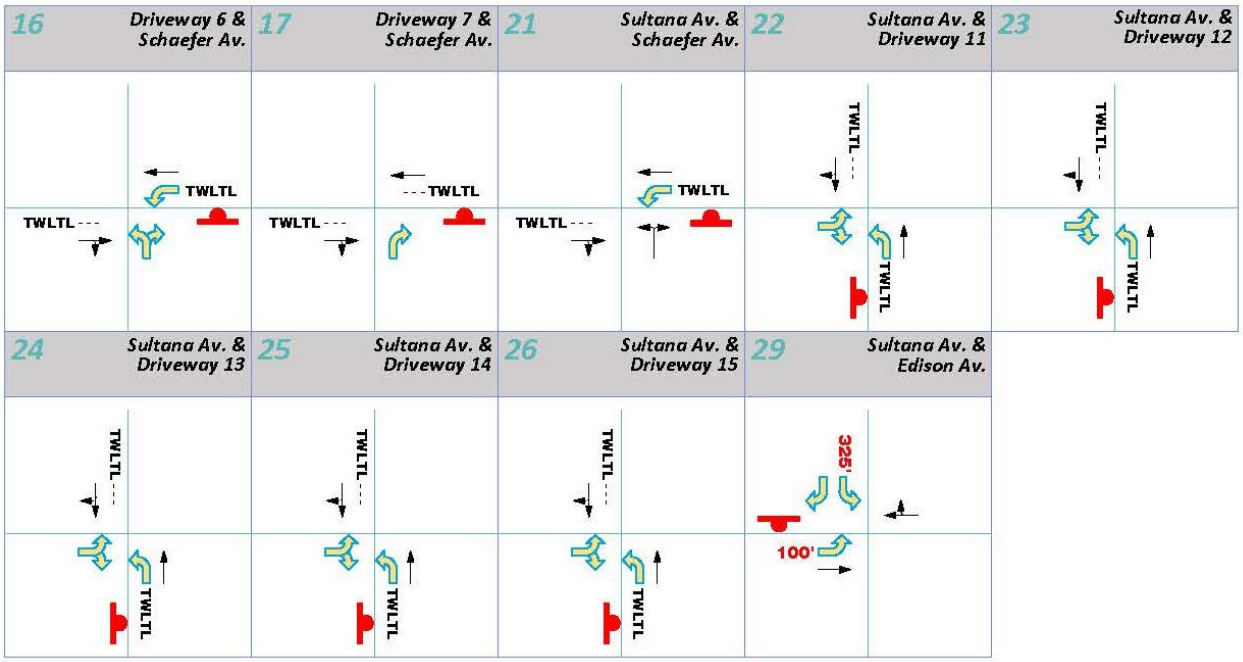


EXHIBIT 1-4: SITE ACCESS RECOMMENDATIONS (2 OF 2)



Recommendation 1 – ***Euclid Avenue (SR-83) & Driveway 1 (#7)*** – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the westbound approach and a right turn lane (Project driveway).

Recommendation 2 – ***Euclid Avenue (SR-83) & Driveway 2 (#8)*** – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the westbound approach and a right turn lane (Project driveway).

Recommendation 3 – ***Euclid Avenue (SR-83) & Driveway 3 (#9)*** – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the westbound approach and a right turn lane (Project driveway).

Recommendation 4 – ***Driveway 5 & Schaefer Avenue (#15)*** – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the northbound approach and a right turn lane (Project driveway).

It should be noted, the City intends to install a two-way left-turn lane along Schaefer Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 5 – ***Driveway 6 & Schaefer Avenue (#16)*** – The following improvements are necessary to accommodate site access:

- Project to construct a stop control on the northbound approach and a shared left-right turn lane (Project driveway).
- Project to construct a westbound left turn lane with a minimum of 100-feet of storage.

It should be noted, the City intends to install a two-way left-turn lane along Schaefer Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 6 – ***Driveway 7 & Schaefer Avenue (#17)*** – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the northbound approach and a right turn lane (Project driveway).

It should be noted, the City intends to install a two-way left-turn lane along Schaefer Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 7 – ***Sultana Avenue & Schaefer Avenue (#21)*** – The following improvements are necessary to accommodate site access:

- Project to construct a stop control on the northbound approach and a shared left-right turn lane (Project driveway).
- Project to construct a westbound left turn lane within a two-way left-turn lane.

It should be noted, the City intends to install a two-way left-turn lane along Schaefer Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 8 – Sultana Avenue & Driveway 11 (#22) – The following improvements are necessary to accommodate site access:

- Project to construct a stop control on the eastbound approach and a shared left-right turn lane (Project driveway).
- Project to construct a northbound left turn lane within a two-way left-turn lane.

It should be noted, the City intends to install a two-way left-turn lane along Sultana Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 9 – Sultana Avenue & Driveway 12 (#23) – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the eastbound approach and a shared left-right turn lane (Project driveway).
- Project to construct a northbound left turn lane within a two-way left-turn lane.

It should be noted, the City intends to install a two-way left-turn lane along Sultana Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 10 – Sultana Avenue & Driveway 13 (#24) – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the eastbound approach and a shared left-right turn lane (Project driveway).
- Project to construct a northbound left turn lane within a two-way left-turn lane.

It should be noted, the City intends to install a two-way left-turn lane along Sultana Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 11 – Sultana Avenue & Driveway 14 (#25) – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the eastbound approach and a shared left-right turn lane (Project driveway).
- Project to construct a northbound left turn lane within a two-way left-turn lane.

It should be noted, the City intends to install a two-way left-turn lane along Sultana Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 12 – Sultana Avenue & Driveway 15 (#26) – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the eastbound approach and a shared left-right turn lane (Project driveway).
- Project to construct a northbound left turn lane within a two-way left-turn lane.

It should be noted, the City intends to install a two-way left-turn lane along Sultana Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 13 – ***Sultana Avenue & Edison Avenue (#29)*** – The following improvement is necessary to accommodate site access:

- Project to construct a stop control on the southbound approach, a left turn lane with a minimum of 325-feet of storage, and a right turn lane.
- Project to construct an eastbound left turn lane with a minimum of 100-feet of storage.

It should be noted, the City intends to install a two-way left-turn lane along Sultana Avenue along the Project's frontage. As such, the two-way left-turn lane has been shown on Exhibit 1-4.

Recommendation 14 – ***Schaefer Avenue***– Schaefer Avenue is an east-west oriented roadway located along the Project's northern boundary. Project to construct Schaefer Avenue from Euclid Avenue to Sultana Avenue at its ultimate half-width as a 4-lane collector (108-foot ultimate right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan. It should be noted, the City intends to install a two-way left-turn lane along Schaefer Avenue along the Project's frontage.

Recommendation 15 – ***Sultana Avenue*** – Sultana Avenue is a north-south oriented roadway located on the Project's eastern boundary. Project to construct Sultana Avenue from Schaefer Avenue to the northern boundary of PA 2 at its ultimate half-width plus 12-feet of pavement on the east side (northbound direction) to facilitate site access, in compliance with the circulation recommendations found in City of Ontario General Plan. It should be noted, the City intends to install a two-way left-turn lane along Sultana Avenue along the Project's frontage.

Recommendation 16 – ***Euclid Avenue*** – Euclid Avenue is a north-south oriented roadway located on the Project's western boundary. Project to construct Euclid Avenue from Schaefer Avenue to driveway 4 at its ultimate half-width as a Principal Arterial (8-lanes, 124-foot right-of-way) in compliance with the circulation recommendations found in City of Ontario General Plan.

On-site traffic signing and striping should be implemented agreeable with the provisions of the California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed construction plans for the Project site.

On-site traffic signing and striping should be implemented agreeable with the provisions of the California Department of Transportation (Caltrans) California Manual on Uniform Traffic Control Devices (CA MUTCD) and in conjunction with detailed construction plans for the Project site.

Sight distance at each project access point should be reviewed with respect to standard Caltrans and City of Ontario sight distance standards at the time of preparation of final grading, landscape, and street improvement plans.

1.5.2 OFF-SITE RECOMMENDATIONS

A summary of the off-site intersection improvements is provided in Table 1-3. For those improvements listed in Table 1-3 and not constructed as part of the Project, the Project Applicant's responsibility for the Project's contributions towards deficient intersections is fulfilled through

payment of fees or fair share that would be assigned to construction of the identified recommended improvements.

If any analyzed intersections and roadway improvements fall outside the jurisdiction of the City, the City does not have the authority to construct or demand the construction of such improvements. For this reason, the payment of fair-share fees for the improvements identified in this section are considered infeasible and therefore results in a significant and unavoidable impact.

TABLE 1-3: SUMMARY OF IMPROVEMENTS BY ANALYSIS SCENARIO (1 OF 4)

#	Intersection Location	Jurisdiction	Existing (2022)	E+P	2027 Without Project	2027 With Project	2050 Without Project	2050 With Project	Improvements in DIF?[1]	DIF Project #	Project Responsibility	Estimated Cost[2,3,4]	Project Fair Share %[4]	Fair Share Cost[5]
1	Euclid Av. (SR-83) & SR-60 WB Ramps	Ontario, Caltrans	None	None	Add 2nd NB left turn lane	Same	Same	Same	Yes	ST-107	Fees	$0	1.3%	$0
							Restripe the southbound approach to provide a two through lanes and one shared through-right turn lane	Same	No		Fair Share	$45,475		$598
											Total	**$45,475**		**$598**
2	Euclid Av. (SR-83) & SR-60 EB Ramps	Ontario, Caltrans	None	None	Add EB right turn lane	Same	Same	Same	Yes	ST-107	Fees	$0	2.4%	$0
					Add 2nd SB left turn lane	Same	Same	Same	Yes	ST-107	Fees	$0		$0
											Total	**$0**		**$0**
4	Euclid Av. (SR-83) & Riverside Dr.	Caltrans, Chino, Ontario	None	None	EB right turn lane	Same	Same	Same	No		Fair Share	$90,950	1.8%	$1,627
					Restripe the northbound approach to provide a left turn lane, two through lanes, and one shared through-right	Same	Same	Same	No		Fair Share	$45,475		$814
					Add 3rd SB through lane	Same	Same	Same	No		Fair Share	$327,420		$5,859
					Add 2nd EB through lane	Same	Same	Same	No		Fair Share	$327,420		$5,859
							Add 2nd NB left turn lane	Same	No		Fair Share	$90,950		$1,627
							Add 2nd SB left turn lane	Same	No		Fair Share	$90,950		$1,627
							Add NB right turn lane	Same	No		Fair Share	$90,950		$1,627
											Total	**$1,064,115**		**$19,041**
5	Euclid Av. (SR-83) & Chino Av.	Caltrans, Chino, Ontario	None	None	Add 3rd NB through lane	Same	Same	Same	Yes	ST-012	Fees	$0	2.1%	$0
					Add 3rd SB through lane	Same	Same	Same	Yes	ST-012	Fees	$0		$0
					Add WB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$1,942
							Add 2nd NB left turn lane	Same	No		Fair Share	$90,950		$1,942
							Add 2nd SB left turn lane	Same	No		Fair Share	$90,950		$1,942
											Total	**$272,850**		**$5,826**
6	Euclid Av. (SR-83) & Schaefer Av.	Caltrans, Chino, Ontario	None	None	Add 3rd NB through lane	Same	Same	Same	Yes	ST-012	Fees	$0	3.8%	$0
					Add 3rd SB through lane	Same	Same	Same	Yes	ST-012	Fees	$0		$0
					Add 2nd NB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$3,413
					Add 2nd SB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$3,413
							Add 2nd EB left turn lane	Same	No		Fair Share	$90,950		$3,413
										Total	**Total**	**$272,850**		**$10,240**
11	Euclid Av. (SR-83) & Edison Av.	Caltrans, Chino, Ontario	None	None	Add WB right turn lane	Same	Same	Same	No		Fair Share	$90,950	1.9%	$1,684
					Add 3rd NB through lane	Same	Same	Same	Yes	ST-012	Fees	$0		$0
					Add 3rd SB through lane	Same	Same	Same	Yes	ST-012	Fees	$0		$0
							Add 2nd SB left turn lane	Same	No		Fair Share	$90,950		$1,684
							Add 2nd EB left turn lane	Same	No		Fair Share	$90,950		$1,684
							Add 2nd EB through lane	Same	No		Fair Share	$327,420		$6,063
							Add 3rd EB through lane	Same	No		Fair Share	$327,420		$6,063
							Add 2nd WB left turn lane	Same	No		Fair Share	$90,950		$1,684
							Add 2nd WB through lane	Same	Yes	ST-007	Fees	$0		$0
							Modify the traffic signal to protect the eastbound and westbound left turns, and implement overlap phasing for the southbound and	Same	No		Fair Share	$136,425		$2,526
											Total	**$1,155,065**		**$21,390**
12	Euclid Av. (SR-83) & Eucalyptus Av.	Caltrans, Chino, Ontario	None	None	Add 3rd NB through lane	Same	Same	Same	Yes	ST-012	Fees	$0	2.1%	$0
					Add 3rd SB through lane	Same	Same	Same	Yes	ST-012	Fees	$0		$0
							Add 2nd WB left turn lane	Same	No		Fair Share	$90,950		$1,950
							Add WB right turn lane	Same	No		Fair Share	$90,950		$1,950
										Total	**Total**	**$181,900**		**$3,899**

TABLE 1-3: SUMMARY OF IMPROVEMENTS BY ANALYSIS SCENARIO (2 OF 4)

13 Euclid Av. (SR-83) & Merrill Av.	Caltrans, Chino, Ontario	None	None	Add WB left turn lane	Same	Same	Same	No		Fair Share	$90,950	1.1%	$987
				Add WB right turn lane	Same	Same	Same	No		Fair Share	$90,950		$987
				Modify the traffic signal to implement overlap phasing for the WB right turn lane	Same	Same	Same	No		Fair Share	$136,425		$1,480
				Add 3rd NB through lane	Same	Same	Same	No		Fair Share	$327,420		$3,552
				Add 3rd SB through lane	Same	Same	Same	Yes	ST-012	Fees	$0		$0
						Add EB left turn lane	Same	No		Fair Share	$90,950		$987
						Add 2nd WB left turn lane	Same	No		Fair Share	$90,950		$987
						Modify the traffic signal to implement overlap phasing for the NB right turn lane	Same	No		Fair Share	$136,425		$1,480
										Total	**$964,070**		**$10,458**
14 Euclid Av. (SR-83) & Kimball Av.	Caltrans, Chino	None	None	Add 3rd NB through lane	Same	Same	Same	No		Fair Share	$327,420	1.0%	$3,412
				Add 3rd SB through lane	Same	Same	Same	No		Fair Share	$327,420		$3,412
				Add 2nd WB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$948
				Modify the traffic signal to implement overlap phasing for the WB right turn lane	Same	Same	Same	No		Fair Share	$136,425		$1,422
										Total	**$882,215**		**$9,193**
19 Driveway 9 & Edison Av.	Ontario	None	Install a Traffic Signal	Same	Same	Same	Same	No		Construct	$0	2.6%	$0
										Total:	**$0**		**$0**
30 Bon View Av. & Schaefer Av.	Ontario	None	Install a Traffic Signal	None	None	None	Install a Traffic Signal	No		Fair Share	$250,000	5.9%	$14,663
										Total:	**$250,000**		**$14,663**
31 Bon View Av. & Edison Av.	Ontario	None	Install a Traffic Signal	Same	Same	Same	Same	No		Construct	$0	4.0%	$0
						Add NB left turn lane	Same	No		Fair Share	$90,950		$3,632
						Add SB left turn lane	Same	No		Fair Share	$90,950		$3,632
						Add EB left turn lane	Same	No		Fair Share	$90,950		$3,632
						Add 2nd EB through lane	Same	Yes	ST-007	Fees	$0		$0
						Add 3rd EB through lane	Same	Yes	ST-007	Fees	$0		$0
						Add WB left turn lane	Same	No		Fair Share	$90,950		$3,632
						Add 2nd WB through lane	Same	Yes	ST-007	Fees	$0		$0
						Add 3rd WB through lane	Same	Yes	ST-007	Fees	$0		$0
										Total	**$363,800**		**$14,528**
32 Grove Av. & Schaefer Av.	Ontario	None	None	Install a Traffic Signal	Same	Same	Same	No		Fair Share	$250,000	1.7%	$4,264
						Add NB left turn lane	Same	No		Fair Share	$90,950		$1,551
						Add 2nd NB through lane	Same	Yes	ST-013	Fees	$0		$0
						Add SB left turn lane	Same	No		Fair Share	$90,950		$1,551
						Add 2nd SB through lane	Same	Yes	ST-013	Fees	$0		$0
						Add EB left turn lane	Same	No		Fair Share	$90,950		$1,551
						Add 2nd EB through lane	Same	Yes	ST-020	Fees	$0		$0
						Add WB left turn lane	Same	No		Fair Share	$90,950		$1,551
						Add 2nd WB through lane	Same	Yes	ST-020	Fees	$0		$0
										Total	**$613,800**		**$10,470**

TABLE 1-3: SUMMARY OF IMPROVEMENTS BY ANALYSIS SCENARIO (3 OF 4)

33 Grove Av. & Edison Av.	Ontario	Install a Traffic Signal	Same	Same	Same	Same	Same	No		Fair Share	$250,000	2.9%	$7,169
				Add NB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$2,608
				Add 2nd NB through lane	Same	Same	Same	Yes	ST-013	Fees	$0		$0
				Add SB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$2,608
				Add 2nd SB through lane	Same	Same	Same	Yes	ST-013	Fees	$0		$0
				Add EB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$2,608
				Add WB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$2,608
						Add 2nd EB through lane	Same	Yes	ST-007	Fees	$0		$0
						Add 3rd EB through lane	Same	Yes	ST-007	Fees	$0		$0
						Add 2nd WB through lane	Same	Yes	ST-007	Fees	$0		$0
						Add 3rd WB through lane	Same	Yes	ST-007	Fees	$0		$0
						Add WB right turn lane	Same	No		Fair Share	$90,950		$2,608
										Total	**$704,750**		**$20,208**
34 Walker Av. & Edison Av.	Ontario	None	Install a Traffic Signal	Same	Same	Same	Same	No		Fair Share	$250,000	2.6%	$6,546
				Add EB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$2,381
				Add 2nd EB through lane	Same	Same	Same	Yes	ST-007	Fees	$0		$0
				Add WB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$2,381
				Add 2nd WB through lane	Same	Same	Same	Yes	ST-008	Fees	$0		$0
				Add NB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$2,381
				Add SB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$2,381
						Add 3rd EB through lane	Same	No		Fair Share	$327,420		$8,573
						Add 3rd WB through lane	Same	No		Fair Share	$327,420		$8,573
						Add 4th EB through lane	Same	No		Fair Share	$327,420		$8,573
						Add 4th WB through lane	Same	No		Fair Share	$327,420		$8,573
										Total	**$1,923,480**		**$50,363**
35 Vineyard Av. & Edison Av.	Ontario	None	None	None	None	Add 2nd EB through lane	Same	Yes	ST-008	Fees	$0	2.0%	$0
						Add 3rd EB through lane	Same	Yes	ST-009	Fees	$0		$0
						Add 2nd WB through lane	Same	Yes	ST-009	Fees	$0		$0
						Add 3rd WB through lane	Same	Yes	ST-009	Fees	$0		$0
						Add NB left turn lane	Same	No		Fair Share	$90,950		$1,787
						Add SB left turn lane	Same	No		Fair Share	$90,950		$1,787
						Install a Traffic Signal	Same	No		Fair Share	$454,750		$8,936
										Total	**$636,650**		**$12,510**
36 Hellman Av. & Edison Av.	Ontario	None	None	None	None	Add 2nd EB through lane	Same	Yes	ST-009	Fees	$0	1.9%	$0
						Add 3rd EB through lane	Same	Yes	ST-009	Fees	$0		$0
						Add 2nd WB through lane	Same	Yes	ST-009	Fees	$0		$0
						Add 3rd WB through lane	Same	Yes	ST-009	Fees	$0		$0
						Add NB left turn lane	Same	No		Fair Share	$90,950		$1,704
						Add NB shared through-right lane	Same	No		Fair Share	$327,420		$6,134
						Add SB left turn lane	Same	No		Fair Share	$90,950		$1,704
						Add SB shared through-right lane	Same	No		Fair Share	$327,420		$6,134
						Add EB left turn lane	Same	No		Fair Share	$90,950		$1,704
						Add WB left turn lane	Same	No		Fair Share	$90,950		$1,704
										Total	**$1,018,640**		**$19,083**

TABLE 1-3: SUMMARY OF IMPROVEMENTS BY ANALYSIS SCENARIO (4 OF 4)

37 Archibald Av. & Edison Av.	Ontario	None	None	Add 2nd WB through lane	Same	Same	Same	Yes	ST-010	Fees	$0	2.2%	$0
				Add 2nd NB left turn lane	Same	Same	Same	No		Fair Share	$90,950		$1,980
				Add 3rd NB through lane	Same	Same	Same	Yes	ST-002	Fees	$0		$0
						Add 3rd SB through lane	Same	Yes	ST-001	Fees	$0		$0
						Add 3rd EB through lane	Same	Yes	ST-010	Fees	$0		$0
						Add 4th EB through lane	Same	Yes	ST-010	Fees	$0		$0
						Add 3rd WB through lane	Same	Yes	ST-010	Fees	$0		$0
						Add 4th WB through lane	Same	Yes	ST-010	Fees	$0		$0
						Add 2nd SB left turn lane	Same	No		Fair Share	$90,950		$1,980
						Modify the traffic signal to implement overlap phasing for the SB right turn lane	Same	No		Fair Share	$136,425		$2,970
										Total	**$318,325**		**$6,931**
38 Turner Av. & Ontario Ranch Rd.	Ontario	None	None	None	None	Add 3rd EB through lane	Same	Yes	ST-010	Fees	$0	2.6%	$0
						Add 3rd WB through lane	Same	Yes	ST-010	Fees	$0		$0
										Total	**$0**		**$0**
39 Haven Av. & Ontario Ranch Rd.	Ontario	None	None	None	None	Add 2nd NB through lane	Same	Yes	ST-014	Fees	$0	2.4%	$0
						Add 2nd SB through lane	Same	Yes	ST-014	Fees	$0		$0
										Total	**$0**		**$0**
40 Hamner Av. & Ontario Ranch Rd.	Ontario, Eastvale	None	None	None	None	Modify the traffic signal to extend the cycle length to 130 seconds	Same	No		Fair Share	$136,425	1.7%	$2,384
						Add 3rd WB through lane	Same	No		Fair Share	$327,420		$5,721
						Add EB right turn lane	Same	No		Fair Share	$90,950		$1,589
						Modify the traffic signal to implement overlap phasing for the NB and EB right turn lanes	Same	No		Fair Share	$136,425		$2,384
						Add 3rd SB through lane	Same	No		Fair Share	$327,420		$5,721
						Add 4th WB through lane	Same	No		Fair Share	$327,420		$5,721
										Total	**$1,346,060**		**$23,519**
										Total Cost for Improvements	$12,014,045		$252,921
										Total Project Fair Share Contribution to the City of Ontario (non-DIF/other) [6]	$186,267		
										Total Project Fair Share Contribution to the City of Chino [7]	$54,021		
										Total Project Fair Share Contribution to the City of Eastvale [8]	$12,634		

[1] Improvements included in City of Ontario DIF program for local, regional and specific plan components.
[2] Costs have been estimated using the data provided in Appendix "G" of the CMP (2003 Update) for preliminary construction costs.
[3] Appendix "G" costs escalated by a factor of 1.819 per City direction except Traffic Signals.
[4] Program improvements constructed by project may be eligible for fee credit, at discretion of City. See Table 8-2 for Fair Share Calculations.
[5] Rough order of magnitude cost estimate.
[6] Total project fair share contribution consists of the improvements which are not already included in a fee program for those intersections wholly or partially within the City of Ontario.
[7] Total project fair share contribution consists of the improvements which are not already included in a fee program for those intersections wholly or partially within the City of Chino.
[8] Total project fair share contribution consists of the improvements which are not already included in a fee program for those intersections wholly or partially within the City of Eastvale.

2 METHODOLOGIES

This section of the report presents the methodologies used to perform the traffic analyses summarized in this report. The methodologies described are consistent with City of Ontario's Traffic Study Guidelines.

2.1 LEVEL OF SERVICE

Traffic operations of roadway facilities are described using the term "Level of Service" (LOS). LOS is a qualitative description of traffic flow based on several factors, such as speed, travel time, delay, and freedom to maneuver. Six levels are typically defined ranging from LOS A, representing completely free-flow conditions, to LOS F, representing breakdown in flow resulting in stop-and-go conditions. LOS E represents operations at or near capacity, an unstable level where vehicles are operating with the minimum spacing for maintaining uniform flow.

2.2 INTERSECTION CAPACITY ANALYSIS

The definitions of LOS for interrupted traffic flow (flow restrained by the existence of traffic signals and other traffic control devices) differ slightly depending on the type of traffic control. The LOS is typically dependent on the quality of traffic flow at the intersections along a roadway. The 6th Edition Highway Capacity Manual (HCM) methodology expresses the LOS at an intersection in terms of delay time for the various intersection approaches. (4) The HCM uses different procedures depending on the type of intersection control.

2.2.1 SIGNALIZED INTERSECTIONS

The City of Ontario requires signalized intersection operations analysis based on the methodology described in the HCM. (4) Intersection LOS operations are based on an intersection's average control delay. Control delay includes initial deceleration delay, queue move-up time, stopped delay, and final acceleration delay. For signalized intersections LOS is related to the average control delay per vehicle and is correlated to a LOS designation as described in Table 2-1.

TABLE 2-1: SIGNALIZED INTERSECTION LOS THRESHOLDS

Description	Average Control Delay (Seconds), V/C ≤ 1.0	Level of Service, V/C ≤ 1.0[1]
Operations with very low delay occurring with favorable progression and/or short cycle length.	0 to 10.00	A
Operations with low delay occurring with good progression and/or short cycle lengths.	10.01 to 20.00	B
Operations with average delays resulting from fair progression and/or longer cycle lengths. Individual cycle failures begin to appear.	20.01 to 35.00	C
Operations with longer delays due to a combination of unfavorable progression, long cycle lengths, or high V/C ratios. Many vehicles stop and individual cycle failures are noticeable.	35.01 to 55.00	D
Operations with high delay values indicating poor progression, long cycle lengths, and high V/C ratios. Individual cycle failures are frequent occurrences. This is considered to be the limit of acceptable delay.	55.01 to 80.00	E
Operation with delays unacceptable to most drivers occurring due to over saturation, poor progression, or very long cycle lengths.	80.01 and up	F

Source: HCM, 6th Edition

[1] If V/C is greater than 1.0 then LOS is F per HCM.

Consistent with Appendix B of the San Bernardino County CMP, the following saturation flow rates, in vehicles per hour green per lane (vphgpl), will be utilized in the traffic analysis for signalized intersections:

Existing, E+P, and Opening Year Cumulative Traffic Conditions:

- Exclusive through: 1800 vphgpl
- Exclusive left: 1700 vphgpl
- Exclusive right: 1800 vphgpl
- Exclusive dual left: 1600 vphgpl
- Exclusive triple left: 1500 vphgpl

Horizon Year Traffic Conditions:

- Exclusive through: 1900 vphgpl
- Exclusive left: 1800 vphgpl
- Exclusive right: 1900 vphgpl
- Exclusive dual left: 1700 vphgpl
- Exclusive triple left: 1600 vphgpl

The traffic modeling and signal timing optimization software package Synchro (Version 11) has been utilized to analyze signalized intersections. Synchro is a macroscopic traffic software program that is based on the signalized intersection capacity analysis as specified in the HCM. Macroscopic level models represent traffic in terms of aggregate measures for each movement at the study intersections. Equations are used to determine measures of effectiveness such as delay and queue length. The level of service and capacity analysis performed by Synchro takes into consideration optimization and coordination of signalized intersections within a network.

The peak hour traffic volumes have been adjusted using a peak hour factor (PHF) to reflect peak 15-minute volumes. Customary practice for LOS analysis is to use a peak 15-minute rate of flow. However, flow rates are typically expressed in vehicles per hour. The PHF is the relationship between the peak 15-minute flow rate and the full hourly volume (e.g., PHF = [Hourly Volume] / [4 x Peak 15-minute Flow Rate]). The use of a 15-minute PHF produces a more detailed analysis as compared to analyzing vehicles per hour. Existing PHFs have been used for all analysis scenarios. Per the HCM, PHF values over 0.95 often are indicative of high traffic volumes with capacity constraints on peak hour flows while lower PHF values are indicative of greater variability of flow during the peak hour. (4)

2.2.2 UNSIGNALIZED INTERSECTIONS

The City of Ontario requires the operations of unsignalized intersections be evaluated using the methodology described in the HCM. (4) The LOS rating is based on the weighted average control delay expressed in seconds per vehicle (see Table 2-2). At two-way or side-street stop-controlled intersections, LOS is calculated for each controlled movement and for the left turn movement from the major street, as well as for the intersection as a whole. For approaches composed of a single lane, the delay is computed as the average of all movements in that lane. Delay for the intersection is reported for the worst individual movement at a two-way stop-controlled intersection. For all-way stop controlled intersections, LOS is computed for the intersection as a whole (average delay).

TABLE 2-2: UNSIGNALIZED INTERSECTION LOS THRESHOLDS

Description	Average Control Delay (Seconds), V/C ≤ 1.0	Level of Service, V/C ≤ 1.0[1]
Little or no delays.	0 to 10.00	A
Short traffic delays.	10.01 to 15.00	B
Average traffic delays.	15.01 to 25.00	C
Long traffic delays.	25.01 to 35.00	D
Very long traffic delays.	35.01 to 50.00	E
Extreme traffic delays with intersection capacity exceeded.	> 50.00	F

Source: HCM, 6th Edition

[1] If V/C is greater than 1.0 then LOS is F per HCM.

2.3 TRAFFIC SIGNAL WARRANT ANALYSIS METHODOLOGY

The term "signal warrants" refers to the list of established criteria used by Caltrans and other public agencies to quantitatively justify or determine the potential need for installation of a traffic signal at an otherwise unsignalized intersection. This TA uses the signal warrant criteria presented in the latest edition of the Caltrans California Manual on Uniform Traffic Control Devices (CA MUTCD). (5)

The signal warrant criteria for Existing study area intersections are based upon several factors, including volume of vehicular and pedestrian traffic, frequency of accidents, and location of school areas. The CA MUTCD indicates that the installation of a traffic signal should be considered if one or more of the signal warrants are met. (5) Specifically, this TA utilizes the Peak Hour Volume-based Warrant 3 as the appropriate representative traffic signal warrant analysis for existing traffic conditions and for all future analysis scenarios for existing unsignalized intersections. Warrant 3 is appropriate to use for this TA because it provides specialized warrant criteria for intersections with rural characteristics. For the purposes of this study, the speed limit was the basis for determining whether Urban or Rural warrants were used for a given intersection. Urban warrants have been used as posted speed limits on the major roadways with unsignalized intersections are 40 miles per hour or below and rural warrants have been used where speeds exceed 40 miles per hour.

Future intersections that do not currently exist have been assessed regarding the potential need for new traffic signals based on future average daily traffic (ADT) volumes, using the Caltrans planning level ADT-based signal warrant analysis worksheets. Similarly, the speed limit has been used as the basis for determining the use of Urban and Rural warrants.

Traffic signal warrant analyses were performed for the following study area intersection shown in Table 2-3:

TABLE 2-3: TRAFFIC SIGNAL WARRANT ANALYSIS LOCATIONS

#	Intersection
16	Driveway 6 & Schaefer Av.
19	Driveway 9 & Edison Av.
21	Sultana Av. & Schaefer Av.
22	Sultana Av. & Driveway 11
23	Sultana Av. & Driveway 12
24	Sultana Av. & Driveway 13
25	Sultana Av. & Driveway 14
26	Sultana Av. & Driveway 15
27	Sultana Av. & Driveway 16
28	Sultana Av. & Driveway 17
29	Sultana Av. & Edison Av.
30	Bon View Av. & Schaefer Av.
31	Bon View Av. & Edison Av.
32	Grove Av. & Schaefer Av.
33	Grove Av. & Edison Av.
34	Walker Av. & Edison Av.
35	Vineyard Av. & Edison Av.
36	Hellman Av. & Edison Av.

Although unsignalized, traffic signal warrants have not been evaluated at the intersections of Driveway 1, Driveway 2, Driveway 3, and Driveway 4 on Euclid Avenue, Driveway 5 and Driveway 7 on Schaefer Avenue, Driveway 8 and Driveway 10 on Edison Avenue, and Driveway 11, Driveway 12, Driveway 13, Driveway 14, Driveway 15, Driveway 16, and Driveway 17 on Sultana Avenue since these intersections are anticipated to have restricted access (right-in/right-out only) and would therefore not be suitable locations for installing a traffic signal.

The Existing conditions traffic signal warrant analysis is presented in the subsequent section, Section 3 *Area Conditions* of this report. The traffic signal warrant analyses for future conditions are presented in Section 5 *E+P Traffic Conditions*, Section 6 *Opening Year Cumulative (2027) Conditions*, and Section 7 *Horizon Year (2050) Traffic Conditions* of this report. It is important to note that a signal warrant defines the minimum condition under which the installation of a traffic signal might be warranted. Meeting this threshold condition does not require that a traffic control signal be installed at a particular location, but rather, that other traffic factors and conditions be evaluated in order to determine whether the signal is truly justified. It should also be noted that signal warrants do not necessarily correlate with LOS. An intersection may satisfy a signal warrant condition and operate at or above acceptable LOS or operate below acceptable LOS and not meet a signal warrant.

2.4 QUEUING ANALYSIS

Consistent with Caltrans requirements, the 95th percentile queuing of vehicles has been assessed at the off-ramps to determine potential queuing deficiencies at the freeway ramp intersections at the SR-60 Freeway at the Euclid Avenue interchange and at the I-15 Freeway at the Cantu Galleano Road interchange. Specifically, the off-ramp queuing analysis is utilized to identify any potential queuing and "spill back" onto the SR-60 and I-15 Freeway mainlines from the off-ramps.

The traffic progression analysis tool and HCM intersection analysis program, Synchro, has been used to assess the potential deficiencies/needs of the intersections with traffic added from the proposed Project. Storage (turn-pocket) length recommendations at the ramps have been based upon the 95th percentile queue resulting from the Synchro progression analysis. The footnote from the Synchro output sheets indicates if the 95th percentile cycle exceeds capacity. Traffic is simulated for two complete cycles of the 95th percentile traffic in Synchro in order to account for the effects of spillover between cycles. In practice, the 95th percentile queue shown will rarely be exceeded and the queues shown with the footnote are acceptable for the design of storage bays. The 95th percentile queue is derived from the average queue plus 1.65 standard deviations. The 95th percentile queue is not necessarily ever observed it is simply based on statistical calculations.

2.5 MINIMUM ACCEPTABLE LEVELS OF SERVICE (LOS)

Minimum Acceptable LOS and associated definitions of intersection deficiencies has been obtained from each of the applicable surrounding jurisdictions.

2.5.1 CITY OF ONTARIO

Per the Ontario Plan's Policy M-1, the City of Ontario utilizes a minimum acceptable LOS of LOS E, where feasible. (6)

2.5.2 CITY OF EASTVALE

The City of Eastvale General Plan Policy C-10 sets a standard of LOS C with LOS D as acceptable in commercial and employment areas and at intersections of any combination of major highways, urban arterials, secondary highways, or freeway ramps. (7) Based on this criterion, where feasible, LOS D is the minimum acceptable LOS at each of the study intersections within the City of Eastvale.

2.5.3 CITY OF CHINO

According to the City of Chino's General Plan Objective TRA-1.2/Policy P1, LOS D is the minimum acceptable condition that should be maintained during the peak commute hours, where feasible. (8)

2.5.4 CALTRANS

Caltrans endeavors to maintain a target LOS at the transition between LOS C and LOS D on State Highway System facilities, however, Caltrans acknowledges that this may not always be feasible and recommends that the lead agency consult with Caltrans to determine the appropriate target LOS. (9) If an existing State highway facility is operating at less than this target LOS, the existing LOS should be maintained. In general, the region-wide goal for an acceptable LOS on all freeways and intersections

is LOS D. Consistent with the City of Ontario LOS threshold of LOS D and in excess of the City of Ontario stated LOS threshold of LOS E, LOS D will be used as the target LOS.

2.5.5 CMP

The CMP definition of deficiency is based on maintaining a level of service standard of LOS E or better, where feasible, except where an existing LOS F condition is identified in the CMP document. However, in an effort to overstate as opposed to understate potential deficiencies, LOS D has been utilized for the CMP intersections for the purposes of this analysis, unless the intersection is located in the City of Ontario (which uses LOS E). (3)

2.6 DEFICIENCY CRITERIA

To determine whether the addition of project traffic at a study intersection would result in a traffic deficiency, the following will be utilized:

- When the Without Project condition is at or better than LOS D (or LOS E for CMP intersections and intersections located in the City of Ontario) (i.e., acceptable LOS), and project-generated traffic causes deterioration below LOS D/LOS E (i.e., unacceptable LOS), a deficiency is deemed to occur.

When the Without Project condition is already below LOS D/LOS E (i.e., unacceptable LOS), the Project will be responsible for improving its deficiency to acceptable levels of service. Thus, for intersections operating at unacceptable LOS during either the AM and/or PM peak hour, improvements have been identified to improve the deficiencies of the Project to an intersection LOS that is equal to or better than Without Project conditions (see Table 2-4).

The Project's contribution to a deficiency can be reduced if the Project is required to implement or fund its fair share of improvements designed to alleviate its contribution to the deficient condition.

In the event that an intersection is operating at or is forecast to operate at a deficient LOS, the CMP guidelines have defined a series of steps to be completed to determine the Project's contribution to the deficiency of intersections, which has been applied to both CMP and non-CMP study area intersections. The steps are as follows:

- Determine the improvements necessary to achieve an acceptable service level,
- Calculate the Project's share in the future traffic volume projections for the peak hours,
- Estimate the cost to implement recommended improvements, and
- Calculate the Project's fair-share contribution to improve the Project's traffic deficiencies

TABLE 2-4: DEFICIENCY CRITERIA

Without Project Level of Service	Level of Service	Deficient?	Improvement Required?
City of Ontario			
A	A-D	No	No
B	B-D	No	No
C	C-D	No	No
D	D-E	No	No
E	E	No	No
A-E	F	Yes	Yes, bring LOS to E or better
F	F	Yes	Yes, bring LOS to E or better
City of Eastvale, City of Chino			
A	A-D	No	No
B	B-D	No	No
C	C-D	No	No
D	D	No	No
A-D	E or F	Yes	Yes, bring LOS to D or better
E	E	Yes	Yes, bring LOS to D or better
E	F	Yes	Yes, bring LOS to D or better
F	F	Yes	Yes, bring LOS to D or better

2.7 PROJECT FAIR SHARE CALCULATION METHODOLOGY

In cases where this TA identifies that the Project would contribute additional traffic volumes to traffic deficiencies, Project fair share costs of improvements necessary to address deficiencies have been identified. The Project's fair share cost of improvements is determined based on the following equation, which is the ratio of Project traffic to new traffic, and new traffic is total future (Opening Year) traffic less existing baseline traffic:

Project Fair Share % = Project AM/PM Traffic / (2050 With Project AM/PM Total Traffic – Existing AM/PM Traffic)

The project fair share percentage has been calculated for both the AM peak hour and PM peak hour and the highest of the two has been selected. The Project fair share contribution calculations are presented in Section 8 *Local and Regional Funding Mechanisms* of this TA. The cost of implementing the improvements shown in Table 1-3 have been estimated based on the preliminary construction cost estimates found in Appendix G of the San Bernardino County CMP in conjunction with a total cost escalation factor of 1.82 to more closely approximate current (2023) costs. These cost estimates have been utilized in conjunction with the Project fair share percentages to determine the Project's fair share cost of the recommended improvements (see Table 7-2). These estimates are a rough order of magnitude only as they are intended only for discussion purposes and do not imply any legal responsibility or formula for contributions or physical improvements.

If any analyzed intersections and roadway improvements fall outside of the jurisdiction of the City, the City does not have the authority to construct or demand the construction of such improvements. For this reason, the payment of fair share fees for the improvements identified in Table 1-3 is considered infeasible and therefore results in a significant and unavoidable impact for those locations outside of the City.

3 AREA CONDITIONS

This section provides a summary of the existing circulation network, the City of Ontario General Plan Circulation Network, and a review of existing peak hour intersection operations, traffic signal warrant, and off-ramp queuing analyses.

3.1 EXISTING CIRCULATION NETWORK

Pursuant to the agreement with City of Ontario staff (Appendix 1.1), the study area includes a total of 42 existing and future intersections as shown previously on Exhibit 1-3. Exhibit 3-1 illustrates the study area intersections located near the proposed Project and identifies the number of through traffic lanes for existing roadways and intersection traffic controls.

3.2 CITY OF ONTARIO GENERAL PLAN CIRCULATION ELEMENT

The 2050 Ontario Plan circulation element is shown on Exhibit 3-2. The study area roadways that are classified as 8-lane Other Principal Arterials are identified as having four lanes of travel in each direction. The following study area roadways within the City of Ontario are classified as 8-lane Other Principal Arterials:

- Euclid Avenue
- Edison Avenue

The study area roadways that are classified as 6-lane Other Principal Arterials are identified as having three lanes of travel in each direction and a 14-foot curbed or painted median. The following study area roadways within the City of Ontario are classified as 6-lane Other Principal Arterials:

- Archibald Avenue
- Vineyard Avenue
- Hamner Avenue

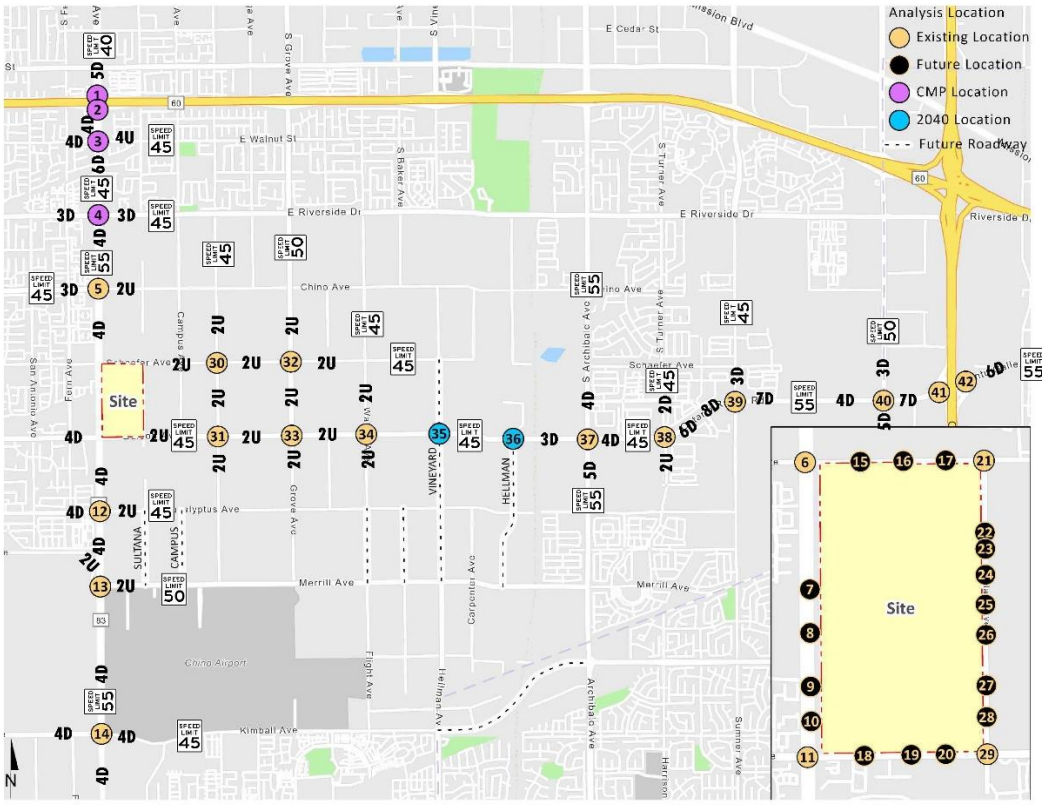
The study area roadways that are classified as 4-lane Other Principal Arterials are identified as having two lanes of travel in each direction. The following study area roadways within the City of Ontario are classified as 4-lane Other Principal Arterials:

- Grove Avenue
- Haven Avenue, south of Riverside Drive

The study area roadway that is classified as a 6-lane Minor Arterial is identified as having three lanes of travel in each direction. The following study area roadway within the City of Ontario is classified as a 6-lane Minor Arterial:

- Riverside Drive

EXHIBIT 3-1: EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS (PAGE 1 OF 2)



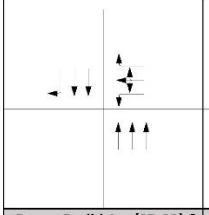
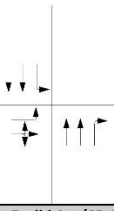
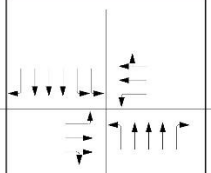
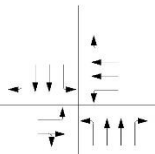
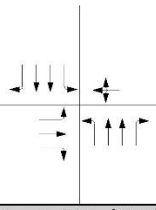
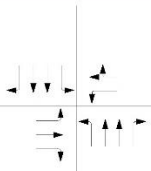
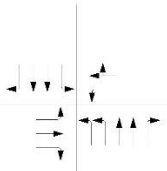
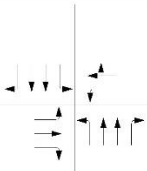
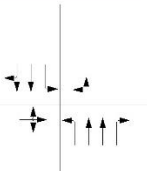
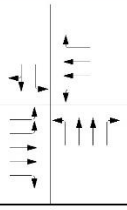
1 Euclid Av. (SR-83) & SR-60 WB Ramps	2 Euclid Av. (SR-83) & SR-60 EB Ramps	3 Euclid Av. (SR-83) & Walnut Av.	4 Euclid Av. (SR-83) & Riverside Dr.	5 Euclid Av. (SR-83) & Chino Av.
				
6 Euclid Av. (SR-83) & Schaefer Av.	**7 Euclid Av. (SR-83) & Driveway 1**	**8 Euclid Av. (SR-83) & Driveway 2**	**9 Euclid Av. (SR-83) & Driveway 3**	**10 Euclid Av. (SR-83) & Driveway 4**
	Future Intersection	Future Intersection	Future Intersection	Future Intersection
11 Euclid Av. (SR-83) & Edison Av.	**12 Euclid Av. (SR-83) & Eucalyptus Av.**	**13 Euclid Av. (SR-83) & Merrill Av.**	**14 Euclid Av. (SR-83) & Kimball Av.**	**15 Driveway 5 & Schaefer Av.**
				Future Intersection

EXHIBIT 3-1: EXISTING NUMBER OF THROUGH LANES AND INTERSECTION CONTROLS (PAGE 2 OF 2

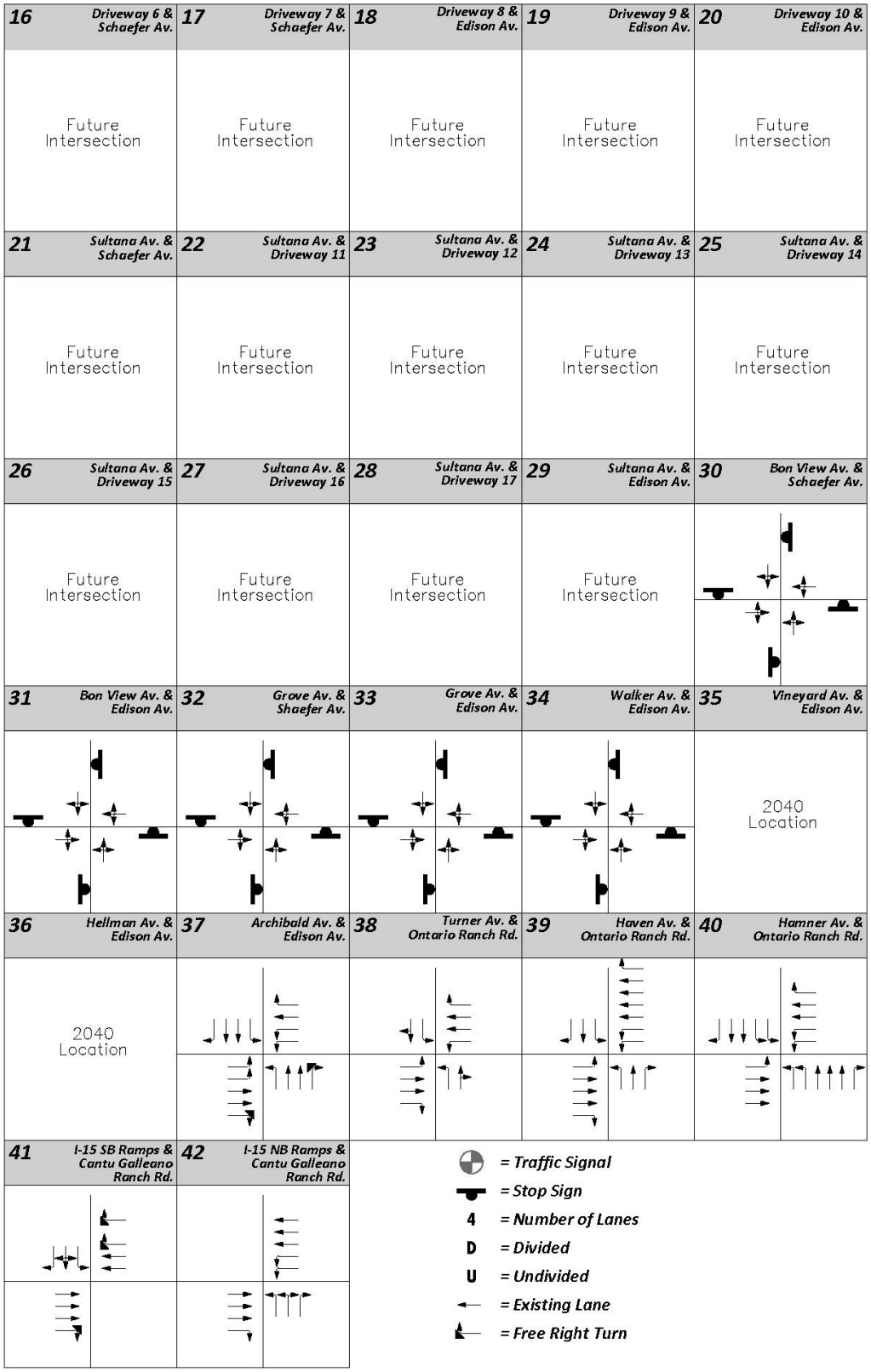
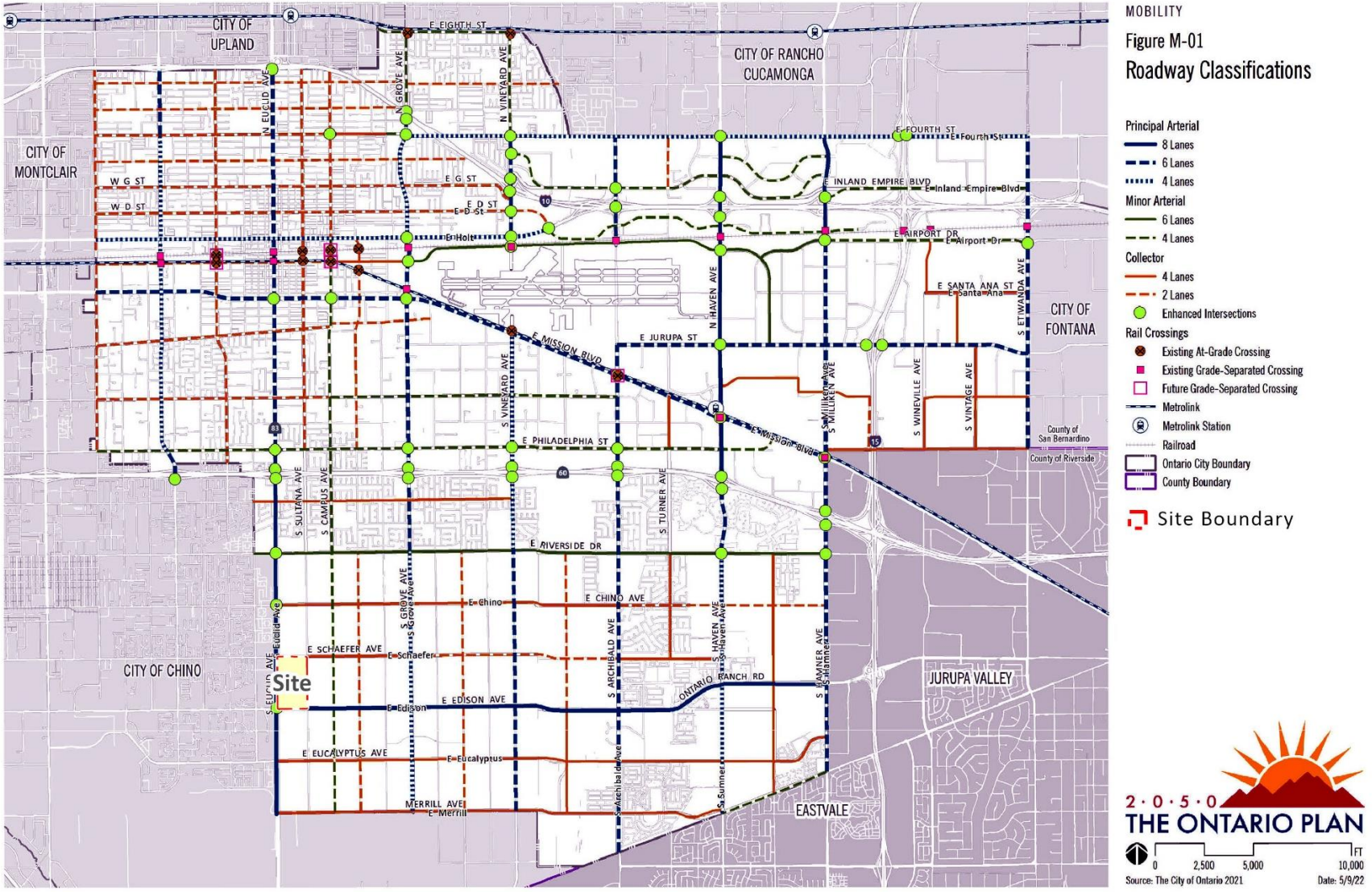


EXHIBIT 3-2: CITY OF ONTARIO 2050 GENERAL PLAN CIRCULATION ELEMENT



The study area roadways that are classified as Collector Streets are identified as having two to four lanes of travel in each direction. The following study area roadways within the City of Ontario are classified as Collector Streets:

- Walnut Avenue
- Chino Avenue
- Schaefer Avenue
- Eucalyptus Avenue
- Merrill Avenue
- Bon View Avenue
- Walker Avenue
- Hellman Avenue
- Turner Avenue

3.3 BICYCLE & PEDESTRIAN FACILITIES

Exhibit 3-3 illustrates the 2050 Ontario Plan bicycle facilities. Existing pedestrian facilities within the study area are shown on Exhibit 3-4. As shown on Exhibit 3-4, there are limited pedestrian facilities in the vicinity of the Project site. Field observations and traffic counts conducted in 2022 indicate light pedestrian and bicycle activity within the study area.

3.4 TRANSIT SERVICE

Exhibit 3-5 shows the 2050 Ontario Plan transit facilities. The study area within the City of Ontario is currently served by Omnitrans, a public transit agency serving various jurisdictions within San Bernardino County. Exhibit 3-6 shows the existing transit facilities, which indicates that Omnitrans Route 83 could potentially serve the Project site. Transit service is reviewed and updated by Omnitrans periodically to address ridership, budget, and community demand needs. Changes in land use can affect these periodic adjustments which may lead to either enhanced or reduced service where appropriate. As such, it is recommended that the applicant work in conjunction with Omnitrans to potentially provide bus service to the site.

3.5 EXISTING (2022) TRAFFIC COUNTS

The intersection LOS analysis is based on the traffic volumes observed during the peak hour conditions using traffic count data collected in 2022. The following peak hours were selected for analysis:

- Weekday AM Peak Hour (peak hour between 7:00 AM and 9:00 AM)
- Weekday PM Peak Hour (peak hour between 4:00 PM and 6:00 PM)

EXHIBIT 3-3: CITY OF ONTARIO 2050 BICYCLE FACILITIES

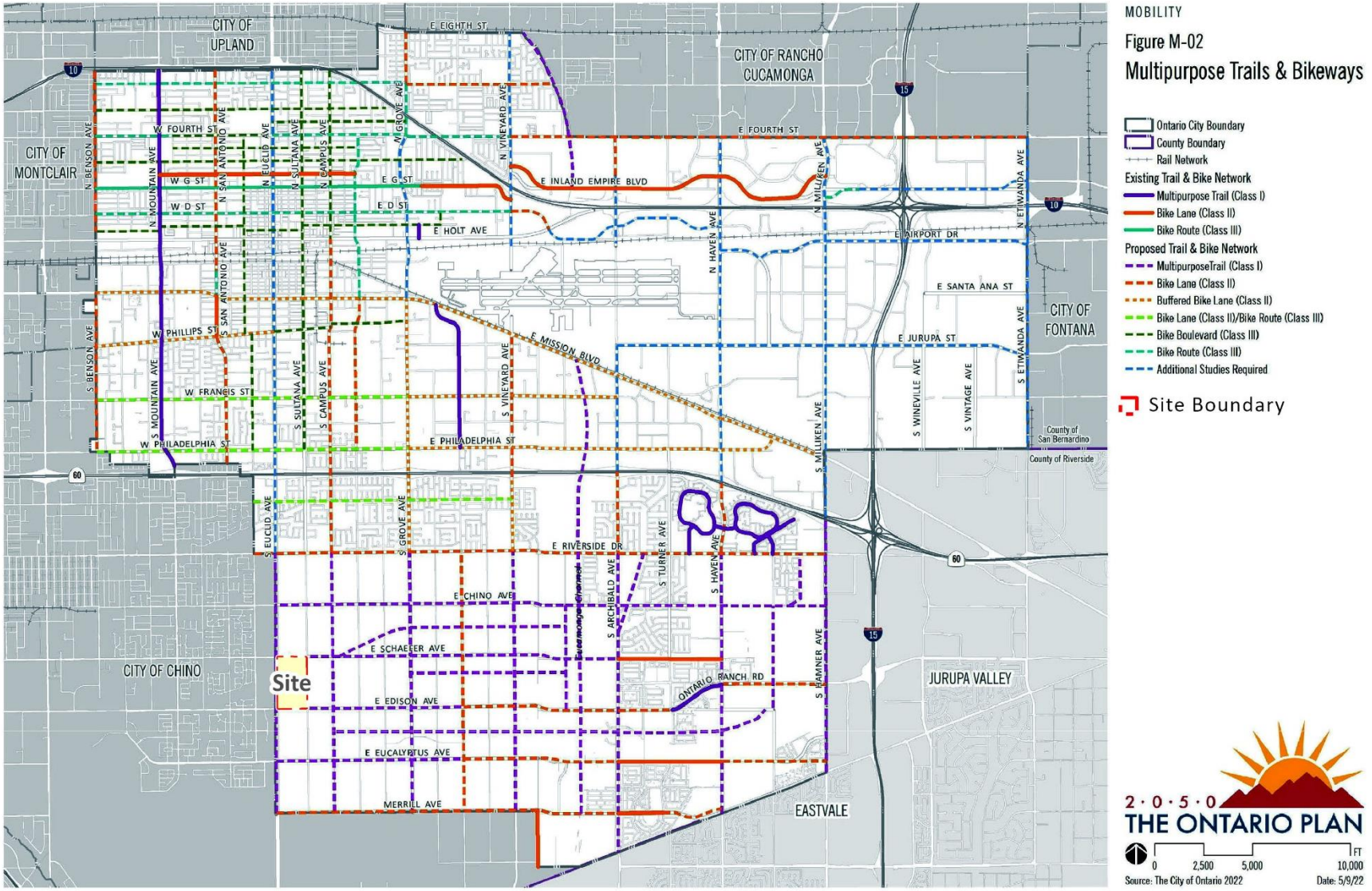


EXHIBIT 3-4: EXISTING PEDESTRIAN FACILITIES

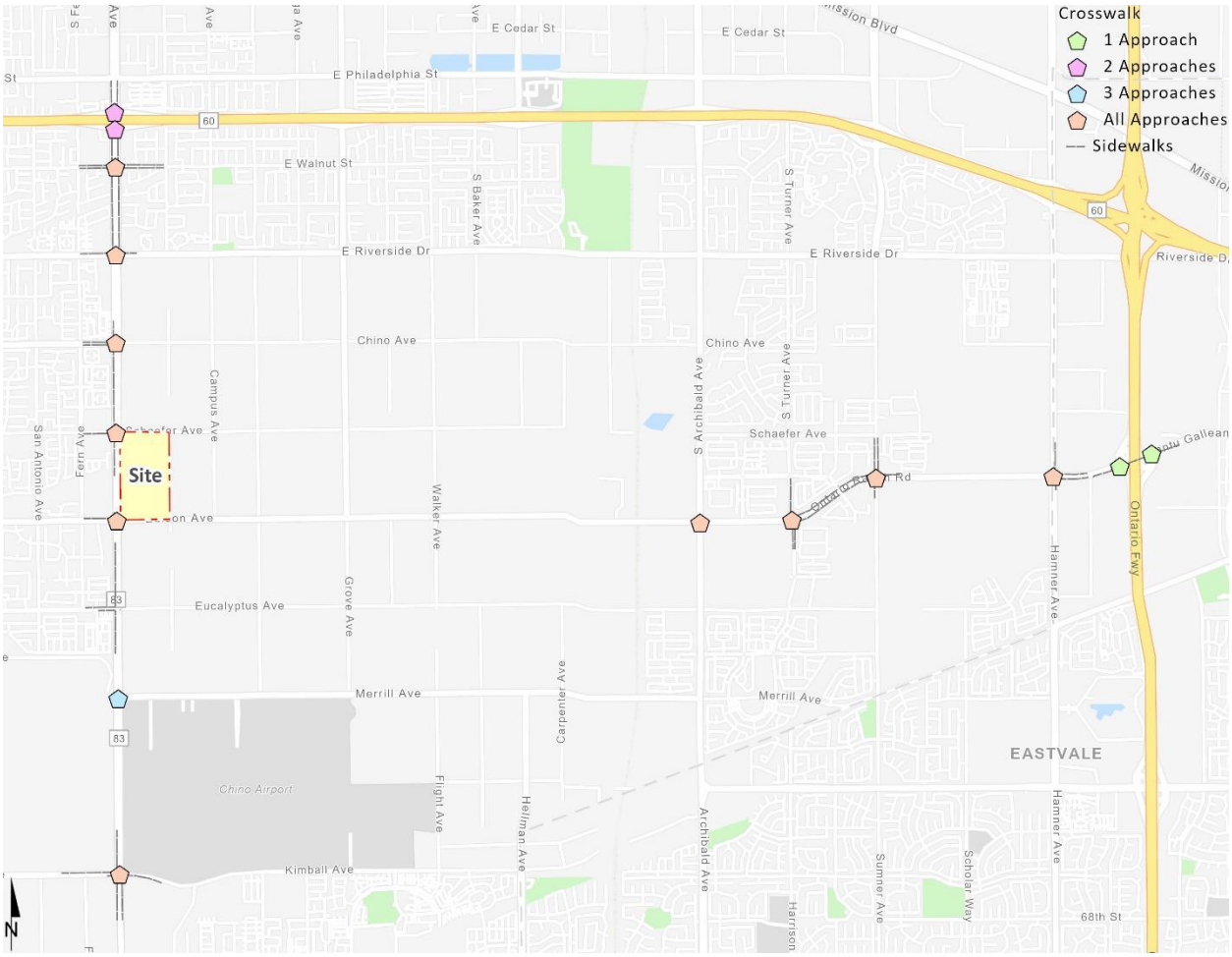


EXHIBIT 3-5: CITY OF ONTARIO 2050 GENERAL PLAN TRANSIT ROUTES

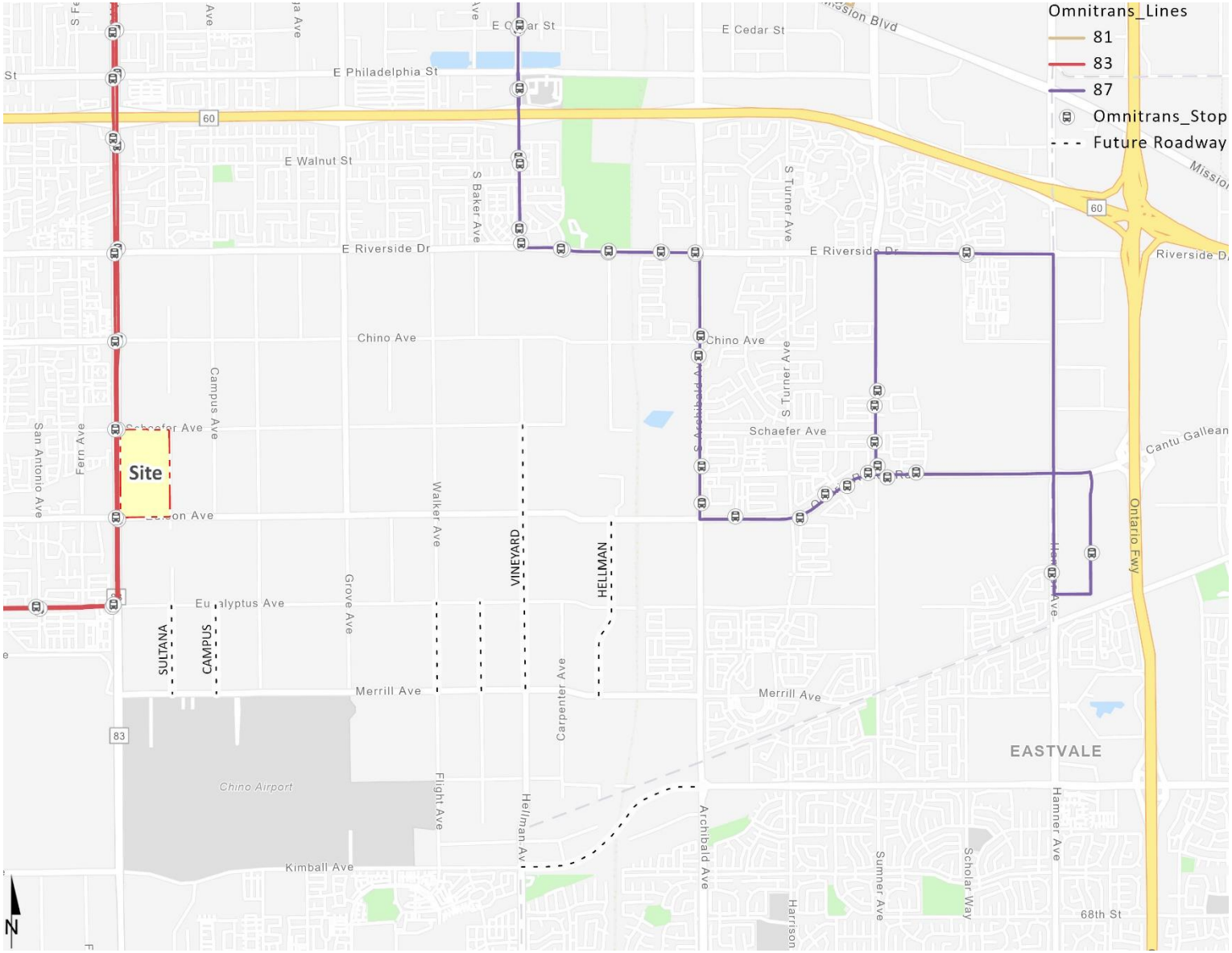
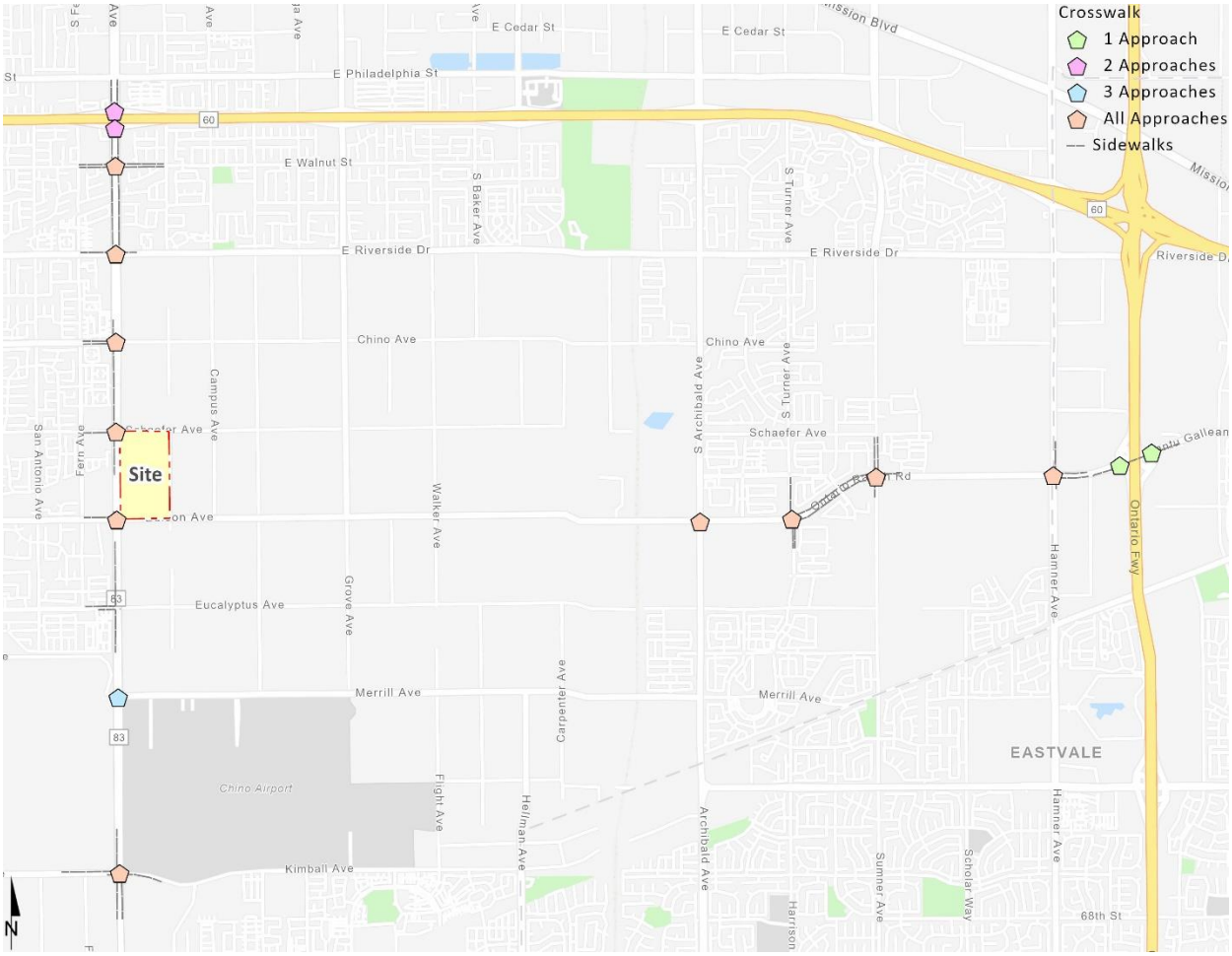


EXHIBIT 3-6: EXISTING TRANSIT FACILITIES



The 2022 weekday AM and weekday PM peak hour count data is representative of typical weekday peak hour traffic conditions in the study area. There were no observations made in the field that would indicate atypical traffic conditions on the count dates, such as construction activity or detour routes and near-by schools were in session and operating on normal schedules. As such, no additional adjustments were made to the traffic counts to establish the baseline condition. The raw manual peak hour turning movement traffic count data sheets are included in Appendix 3.1.

Existing weekday ADT volumes are shown on Exhibit 3-7. Where actual 24-hour tube count data was not available, Existing ADT volumes were based upon factored intersection peak hour counts collected by Urban Crossroads, Inc. using the following formula for each intersection leg:

Weekday PM Peak Hour (Approach Volume + Exit Volume) x 11.38 = Leg Volume

A comparison of the PM peak hour and daily traffic volumes of various roadway segments within the study area indicated that the peak-to-daily relationship is approximately 8.79 percent. As such, the above equation utilizing a factor of 11.38 estimates the ADT volumes on the study area roadway segments assuming a peak-to-daily relationship of 8.79 percent (i.e., 1/0.0879 = 11.38) and was assumed to sufficiently estimate ADT volumes for planning-level analyses. Existing weekday and weekend peak hour intersection volumes, in actual vehicles, are also shown on Exhibit 3-7.

3.6 INTERSECTION OPERATIONS ANALYSIS

Existing peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2.2 *Intersection Capacity Analysis* of this report. The intersection operations analysis results are summarized in Table 3-1, which indicates that the following study area intersection is currently operating at an unacceptable LOS during one of the peak hours:

- Grove Avenue & Edison Avenue (#33) – LOS F PM peak hour only

The intersection operations analysis worksheets are included in Appendix 3.2 of this TA.

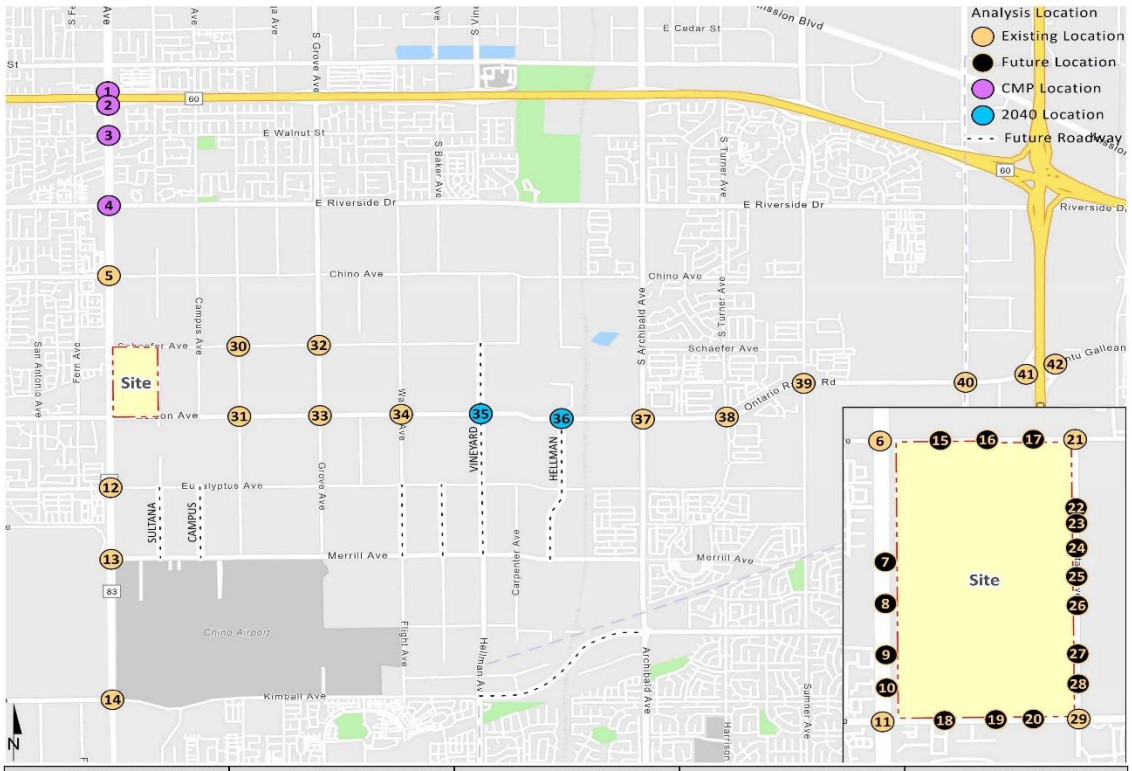
3.7 TRAFFIC SIGNAL WARRANTS ANALYSIS

Traffic signal warrants for Existing traffic conditions are based on existing peak hour intersection turning volumes. The following intersections currently meet a traffic signal warrant under Existing (2022) traffic conditions:

- Bon View Avenue & Edison Avenue (#31)
- Grove Avenue & Schaefer Avenue (#32)
- Grove Avenue & Edison Avenue (#33)
- Walker Avenue & Edison Avenue (#34)

Existing conditions traffic signal warrant analysis worksheets are provided in Appendix 3.3.

EXHIBIT 3-7: EXISTING (2022) TRAFFIC VOLUMES (PAGE 1 OF 2)



1	Euclid Av. (SR-83) & SR-60 WB Ramps	2	Euclid Av. (SR-83) & SR-60 EB Ramps	3	Euclid Av. (SR-83) & Walnut Av.	4	Euclid Av. (SR-83) & Riverside Dr.	5	Euclid Av. (SR-83) & Chino Av.
27,250	9,050	26,500	7,600	24,750	13,650	19,750	14,500	18,850	10,000
↲ 320(424)	↑ 362(337)	↓ 832(946)	↱	↓ 56(116)	↱ 153(138)	↓ 111(151)	↱ 88(66)	↓ 80(62)	↱ 69(44)
↓ 839(822)	← 4(6)	↓ 355(329)		↓ 799(767)	← 365(218)	↓ 680(613)	← 451(369)	↓ 745(663)	← 272(119)
	↰ 348(453)	↳		↳ 174(250)	↰ 85(60)	↳ 216(99)	↰ 190(130)	↳ 52(52)	↰ 89(72)
	↰ ↑ ↱		↰ ↑ ↱		↰ ↑ ↱		↰ ↑ ↱		↰ ↑ ↱
	213(241) 799(812)		638(794) 460(337)		87(99) 826(788) 26(66)		31(39) 535(680) 77(145)		29(25) 540(762) 99(184)
7,650	26,500	5,200	25,900	13,200	31,300	13,600	18,800	8,200	19,850
374(259) ↳		0(3) →		95(114) ↳		151(126) ↳		62(72) ↳	
0(3) →		309(197) ↲		241(469) →		319(463) →		172(407) →	
309(197) ↲				105(144) ↲		43(46) ↲		41(37) ↲	

6	Euclid Av. (SR-83) & Schaefer Av.	7	Euclid Av. (SR-83) & Driveway 1	8	Euclid Av. (SR-83) & Driveway 2	9	Euclid Av. (SR-83) & Driveway 3	10	Euclid Av. (SR-83) & Driveway 4
19,550	4,850	15,150		15,150		15,150		15,150	
↲ 125(102)	↑ 5(30)	↓ 759(764)		↓ 759(764)		↓ 759(764)		↓ 759(764)	
↓ 749(674)	← 3(67)		↱		↱		↱		↱
↳ 31(29)	↰ 2(34)		↰ ↑ ↱		↰ ↑ ↱		↰ ↑ ↱		↰ ↑ ↱
142(224) ↳	↰ ↑ ↱		504(569)		504(569)		504(569)		
51(253) →	59(57) 545(661) 22(28)								
69(123) ↲									
9,300	17,950		15,150		15,150		15,150		15,150

11	Euclid Av. (SR-83) & Edison Av.	12	Euclid Av. (SR-83) & Eucalyptus Av.	13	Euclid Av. (SR-83) & Merrill Av.	14	Euclid Av. (SR-83) & Kimball Av.	15	Driveway 5 & Schaefer Av.
17,600	8,250	20,650	2,450	25,800	6,500	20,500	22,450		4,850
↲ 124(105)	↑ 58(54)	↲ 29(47)	↑ 20(8)	↲ 51(8)	↑ 115(138)	↲ 285(130)	↑ 280(139)		← 10(131)
↓ 586(604)	← 351(185)	↓ 734(936)	← 136(21)	↓ 695(923)	← 49(0)	↓ 437(416)	← 932(355)		
↳ 49(55)	↰ 52(26)	↳ 19(36)	↰ 23(5)	↳ 134(186)	↰ 173(100)	↳ 133(467)	↰ 82(45)		
85(158) ↳	↰ ↑ ↱	52(30) ↳	↰ ↑ ↱	6(3) ↳	↰ ↑ ↱	70(254) ↳	↰ ↑ ↱		
129(392) →	100(72) 504(569) 22(30)	19(127) →	140(83) 591(759) 9(17)	4(18) →	12(1) 619(718) 76(127)	226(806) →	35(59) 360(397) 26(160)		104(310) →
71(128) ↲		123(176) ↲		3(8) ↲		26(28) ↲			
11,850	22,950	5,500	25,800	450	21,350	18,550	12,550	4,850	

##(##) AM(PM) Peak Hour Intersection Volumes
Average Daily Trips

EXHIBIT 3-7: EXISTING (2022) TRAFFIC VOLUMES (PAGE 2 OF 2)

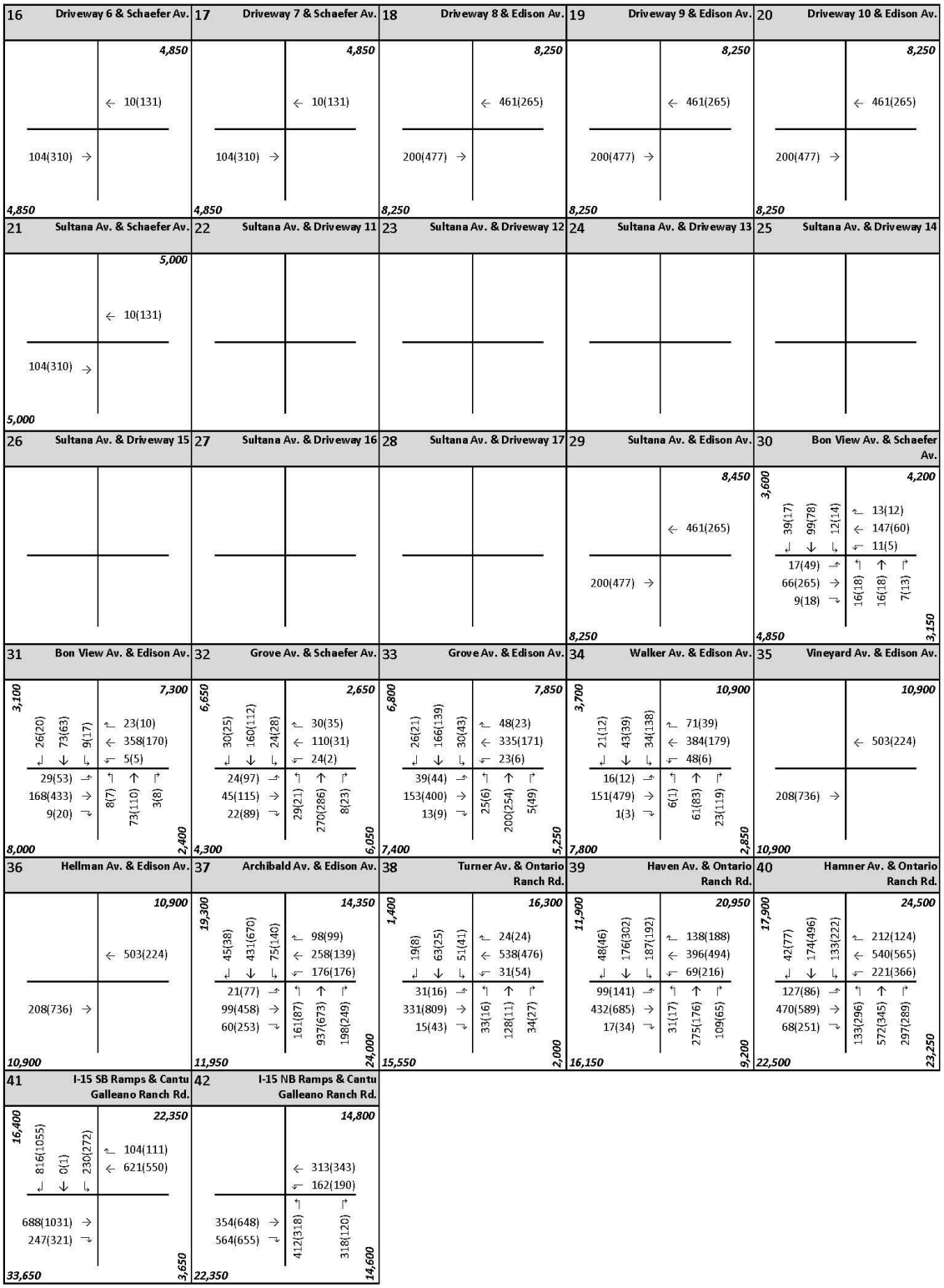


TABLE 3-1: INTERSECTION ANALYSIS FOR EXISTING (2022) CONDITIONS

#	Intersection	Traffic Control[2]	Delay[1] (secs.) AM	Delay[1] (secs.) PM	Level of Service AM	Level of Service PM	Acceptable LOS
1	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	27.1	18.1	C	B	D
2	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	29.7	16.8	C	B	D
3	Euclid Av. (SR-83) & Walnut Av.	TS	29.0	23.9	C	C	D
4	Euclid Av. (SR-83) & Riverside Dr.	TS	41.9	36.5	D	D	E
5	Euclid Av. (SR-83) & Chino Av.	TS	33.5	28.8	C	C	E
6	Euclid Av. (SR-83) & Schaefer Av.	TS	16.0	21.0	B	C	E
7	Euclid Av. (SR-83) & Driveway 1		Future Intersection				E
8	Euclid Av. (SR-83) & Driveway 2		Future Intersection				E
9	Euclid Av. (SR-83) & Driveway 3		Future Intersection				E
10	Euclid Av. (SR-83) & Driveway 4		Future Intersection				E
11	Euclid Av. (SR-83) & Edison Av.	TS	27.3	20.3	C	C	E
12	Euclid Av. (SR-83) & Eucalyptus Av.	TS	13.8	10.8	B	B	E
13	Euclid Av. (SR-83) & Merrill Av.	TS	21.9	17.2	C	B	E
14	Euclid Av. (SR-83) & Kimball Av.	TS	30.0	41.4	C	D	E
15	Driveway 5 & Schaefer Av.		Future Intersection				E
16	Driveway 6 & Schaefer Av.		Future Intersection				E
17	Driveway 7 & Schaefer Av.		Future Intersection				E
18	Driveway 8 & Edison Av.		Future Intersection				E
19	Driveway 9 & Edison Av.		Future Intersection				E
20	Driveway 10 & Edison Av.		Future Intersection				E
21	Sultana Av. & Schaefer Av.		Future Intersection				E
22	Sultana Av. & Driveway 11		Future Intersection				E
23	Sultana Av. & Driveway 12		Future Intersection				E
24	Sultana Av. & Driveway 13		Future Intersection				E
25	Sultana Av. & Driveway 14		Future Intersection				E
26	Sultana Av. & Driveway 15		Future Intersection				E
27	Sultana Av. & Driveway 16		Future Intersection				E
28	Sultana Av. & Driveway 17		Future Intersection				E
29	Sultana Av. & Edison Av.		Future Intersection				E
30	Bon View Av. & Schaefer Av.	AWS	11.5	13.8	B	B	E
31	Bon View Av. & Edison Av.	AWS	21.2	28.6	C	D	E
32	Grove Av. & Schaefer Av.	AWS	16.3	19.2	C	C	E
33	Grove Av. & Edison Av.	AWS	39.0	**52.1**	E	**F**	E
34	Walker Av. & Edison Av.	AWS	29.2	49.8	D	E	E
35	Vineyard Av. & Edison Av.		Future Intersection				E
36	Hellman Av. & Edison Av.		Future Intersection				E
37	Archibald Av. & Edison Av.	TS	25.0	25.0	C	C	E
38	Turner Av. & Ontario Ranch Rd.	TS	14.7	12.0	B	B	E
39	Haven Av. & Ontario Ranch Rd.	TS	21.4	22.3	C	C	E
40	Hamner Av. & Ontario Ranch Rd.	TS	20.7	24.2	C	C	D
41	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	9.2	12.3	A	B	D
42	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	13.3	11.7	B	B	D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

1 Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds.

2 TS = Traffic Signal; AWS = All-way Stop

3.8 OFF-RAMP QUEUING ANALYSIS

A queuing analysis was performed for the off-ramps at the SR-60 Freeway at the Euclid Avenue interchange and the I-15 freeway at the Cantu Galleano Ranch Road interchange to assess vehicle queues for the off ramps that may potentially result in deficient peak hour operations at the ramp-to-arterial intersections and may potentially "spill back" onto the SR-60 or I-15 Freeway mainline. Queuing analysis findings are presented in Table 3-2. It is important to note that off-ramp lengths are consistent with the measured distance between the intersection and the freeway mainline. As shown in Table 3-2, there are no movements that are currently experiencing queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows. Worksheets for Existing (2022) traffic conditions off-ramp queuing analysis are provided in Appendix 3.4.

TABLE 3-2: PEAK HOUR OFF-RAMP QUEUING SUMMARY FOR EXISTING (2022) CONDITIONS

Intersection	Movement	Available Stacking Distance (Feet)	95th Percentile Queue (Feet)[3]		Acceptable? [1]	
			AM Peak Hour	PM Peak Hour	AM	PM
Euclid Av. & SR-60 WB Ramps	WBL	350	376 [3]	370 [3]	Yes	Yes
	WBL/T/R	1,415	379	381	Yes	Yes
	WBR	350	209	175	Yes	Yes
Euclid Av. & SR-60 EB Ramps	EBL	900	382	274	Yes	Yes
	EBL/R	1,290	472 [2]	234	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,435	127	156	Yes	Yes
	SBL/R	550	319	469	Yes	Yes
	SBR	455	289	423	Yes	Yes
I-15 NB Ramps & Cantu Galleano Ranch Rd.	NBL	1,615	149	125	Yes	Yes
	NBL/R	585	52	48	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.
[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.
[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the I-15Freeway mainline.

3.9 IMPROVEMENTS

Improvement strategies have been identified at intersections that have been identified as deficient under Existing (2022) traffic conditions in an effort to achieve an acceptable LOS (i.e., LOS D or better).

3.9.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

The effectiveness of the recommended improvement strategies to address Existing (2022) traffic deficiencies are presented on Table 3-3. Worksheets for Existing (2022) Conditions, with improvements, HCM calculation worksheets are provided in Appendix 3.5.

TABLE 3-3: INTERSECTION ANALYSIS FOR EXISTING (2021) CONDITIONS WITH IMPROVEMENTS

		Intersection Approach Lanes[1]												Delay[2] (secs.)		Level of Service		Acceptable
	Traffic	Northbound			Southbound			Eastbound			Westbound							
	Control[3]	L	T	R	L	T	R	L	T	R	L	T	R	AM	PM	AM	PM	LOS
33 Grove Av. & Edison Av.																		
Without Improvements:	AWS	0	1	0	0	1	0	0	1	0	0	1	0	39.0	**52.1**	E	**F**	E
With Improvements:	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	8.1	9.2	A	A	

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; **1** = Improvement

[2] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[3] AWS = All-way Stop; **TS** = Traffic Signal

3.9.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES

As shown previously in Table 3-2, there are no peak hour queuing issues at the SR-60 Freeway and I-15 Freeway study area interchanges. As such, no improvements have been identified.

4 PROJECTED FUTURE TRAFFIC

This section presents the traffic volumes estimated to be generated by the Project, as well as the Project's trip assignment onto the study area roadway network. A preliminary land use plan for the proposed Project is shown previously on Exhibit 1-2. The proposed Project is to consist of the following uses:

1. Planning Area 1 (Business Park): 135,841 square feet of business park uses fronting Euclid Avenue (SR-83) and 399,135 square feet of warehousing use
2. Planning Area 2 (Business Park): 55,537 square feet of business park uses fronting Euclid Avenue (SR-83) and 450,784 square feet of warehousing use
3. Planning Area 3A (Mixed Use): 122,898 square feet of warehousing use and 30,225 square feet of commercial retail use (10,000 square feet of fast-food restaurant use without drive-through window, 10,000 square feet of fast-food restaurant with drive-through window, and 10,225 square feet of retail space)
4. Planning Area 3B (Mixed Use): 466 multifamily residential dwelling units
5. Planning Area 4 (Truck/Trailer Parking): 7.4 acres
6. Planning area 5 (Truck/Trailer Parking): 4.8 acres

A summary of the land uses is provided in Table 4-1. Note that the Multifamily (Low-Rise) Residential, Strip Retail, Fast-Food Without Drive-Through Window, Fast-Food With Drive-Through Window, and portions of the Truck/Trailer Parking Lot and Warehousing Uses, shown as "Future Development" on Exhibit 1-2, are not controlled by the Project Applicant. Project Buildout is anticipated in Year 2027. Access to the proposed Project would be provided to the surrounding roadways of Schaefer Avenue to the north, Euclid Avenue to the west, Edison Avenue to the south, and Sultana Avenue to the east.

4.1 PROJECT TRIP GENERATION

Trip generation represents the amount of traffic which is both attracted to and produced by a development. Determining traffic generation for a specific project is therefore based upon forecasting the amount of traffic that is expected to be both attracted to and produced by the specific land uses being proposed for a given development.

In order to develop the traffic characteristics of the proposed Project, trip-generation statistics published in the ITE Trip Generation Manual (11th Edition, 2021) was used to estimate the trip generation. For purposes of this analysis, the following land use codes and vehicle mixes have been utilized:

- ITE land use code 130 (Industrial Park) have been used to derive site specific trip generation estimates for up to 191,378 square feet along the Euclid Avenue (SR-83) frontage. The vehicle mix has been obtained from the ITE's latest Trip Generation Manual. The truck percentages were further broken down by axle type per the following South Coast Air Quality Management District (SCAQMD) recommended truck mix: 2-Axle = 16.7%; 3-Axle = 20.7%; 4+-Axle = 62.6%.

TABLE 4-1: PROJECT TRIP GENERATION RATES

Land Use[1]	Units[2]	ITE LU Code	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicle Trip Generation Rates									
Warehousing[3]	TSF	150	0.131	0.039	0.170	0.050	0.130	0.180	1.710
Passenger Cars (AM-88.2%, PM-83.3%, Daily-64.9%)			0.120	0.030	0.150	0.034	0.116	0.150	1.110
2-Axle Trucks (AM-1.97%, PM-2.79%, Daily-5.86%)			0.002	0.001	0.003	0.003	0.002	0.005	0.100
3-Axle Trucks (AM-2.44%, PM-3.46%, Daily-7.27%)			0.002	0.002	0.004	0.003	0.003	0.006	0.124
4+-Axle Trucks (AM-7.39%, PM-10.45%, Daily-21.97%)			0.007	0.006	0.013	0.010	0.009	0.019	0.376
Industrial Park[3]	TSF	130	0.275	0.065	0.340	0.075	0.265	0.340	3.370
Passenger Cars (AM=88.2%, PM=88.2%, Daily=83.1%)			0.257	0.043	0.300	0.060	0.240	0.300	2.800
2-Axle Trucks (AM=2.0%, PM=2.0%, Daily=2.8%)			0.003	0.004	0.007	0.003	0.004	0.007	0.095
3-Axle Trucks (AM=2.4%, PM=2.4%, Daily=3.5%)			0.004	0.005	0.008	0.003	0.005	0.008	0.118
4+-Axle Trucks (AM=7.4%, PM=7.4%, Daily=10.6%)			0.011	0.014	0.025	0.010	0.016	0.025	0.357
Trailer Yard[4]	Acres	--	0.227	0.222	0.449	0.111	0.111	0.222	5.586
Passenger Cars			0.000	0.556	0.556	0.333	0.000	0.333	4.000
2-Axle Trucks			0.111	0.047	0.159	0.111	0.000	0.111	6.268
3-Axle Trucks			0.111	0.000	0.111	0.000	0.333	0.333	8.717
4+-Axle Trucks			0.003	0.000	0.003	0.000	0.009	0.009	0.281
Multifamily (Low-Rise) Residential	DU	220	0.10	0.30	0.40	0.32	0.19	0.51	6.74
Strip Retail (<40,000 SF)	TSF	822	1.42	0.94	2.36	3.30	3.29	6.59	54.45
Fast-Food Without Drive-Through Window	TSF	933	25.04	18.14	43.18	16.61	16.60	33.21	450.49
Fast-Food With Drive-Through Window	TSF	934	22.751	21.859	44.610	17.176	15.854	33.030	467.480
Passenger Car Equivalent (PCE) Trip Generation Rates[6]									
Warehousing[3]	TSF	150	0.131	0.039	0.170	0.050	0.130	0.180	1.710
Passenger Cars			0.120	0.030	0.150	0.034	0.116	0.150	1.110
2-Axle Trucks (PCE = 1.5)			0.003	0.002	0.005	0.005	0.003	0.008	0.150
3-Axle Trucks (PCE = 2.0)			0.004	0.004	0.008	0.006	0.006	0.012	0.248
4+-Axle Trucks (PCE = 3.0)			0.021	0.017	0.038	0.030	0.026	0.056	1.127
Industrial Park[3]	TSF	130	0.275	0.065	0.340	0.075	0.265	0.340	3.370
Passenger Cars			0.257	0.043	0.300	0.060	0.240	0.300	2.800
2-Axle Trucks (PCE = 1.5)			0.005	0.006	0.010	0.004	0.006	0.010	0.143
3-Axle Trucks (PCE = 2.0)			0.007	0.009	0.017	0.006	0.010	0.017	0.236
4+-Axle Trucks (PCE = 3.0)			0.034	0.041	0.075	0.029	0.047	0.075	1.070
Trailer Yard[4]	Acres	--	0.227	0.222	0.449	0.111	0.111	0.222	5.586
Passenger Cars			0.000	0.556	0.556	0.333	0.000	0.333	4.000
2-Axle Trucks (PCE = 1.5)			0.167	0.071	0.238	0.167	0.000	0.167	9.402
3-Axle Trucks (PCE = 2.0)			0.222	0.000	0.222	0.000	0.667	0.667	17.434
4+-Axle Trucks (PCE = 3.0)			0.009	0.000	0.009	0.000	0.028	0.028	0.844

[1] Trip Generation & Vehicle Mix Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, Eleventh Edition (2021).

[2] TSF = thousand square feet; DU - Dwelling Units

[3] Truck Mix: South Coast Air Quality Management District's (SCAQMD) recommended truck mix, by axle type.
Normalized % - Without Cold Storage: 16.7% 2-Axle trucks, 20.7% 3-Axle trucks, 62.6% 4-Axle trucks.

[4] Trip generation rates based on empirical data of existing surveyed sites.

- ITE land use code 150 (Warehousing) has been used to derive site specific trip generation estimates for up to 972,817 square feet. A warehouse is primarily devoted to the storage of materials but may also include office and maintenance areas. The vehicle mix has been obtained from the ITE's Trip Generation Manual. The truck percentages were further broken down by axle type per the following SCAQMD recommended truck mix: 2-Axle = 16.7%; 3-Axle = 20.7%; 4+-Axle = 62.6%.
- ITE land use code 220 (Multifamily Low-Rise Residential) has been used to derive site specific trip generation estimates for up to 466 dwelling units.
- ITE land use code 822 (Strip Retail), ITE land use code 933 (Fast-Food Restaurant Without Drive-Through Window), and ITE land use code 934 (Fast-Food Restaurant With Drive-Through Window) have been used to derive site specific trip generation estimates for up to 30,225 square feet of commercial retail use.
- The ITE Trip Generation Manual does not currently have any trip generation rates for a truck/trailer parking lot, as such, trip generation estimates for the proposed project have been developed using data collected at other facilities with operations similar to those proposed. Table A-1 in Appendix 1.1 summarizes the count data collected at 2 existing facilities located at 5087 Patterson Avenue in the City of Perris and 14769 San Bernardino Avenue in the City of Fontana. The actual driveway counts have been attached to this assessment for each of these facilities in Attachment A. In other words, this traffic analysis will conservatively assume the truck/trailer parking lot will be an independent use that does not specifically serve the adjacent warehouse use.

Refinements to the raw trip generation estimates have been made to provide a more detailed breakdown of trips between passenger cars and trucks. Trip generation for heavy trucks was further broken down by truck type (or axle type). The total truck percentage is comprised of 3 different truck types: 2-axle, 3-axle, and 4+-axle trucks. Passenger Car Equivalent (PCE) factors were applied to the trip generation rates for heavy trucks (large 2-axles, 3-axles, 4+-axles). PCEs allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and level of service analyses. The PCE factors are consistent with the recommended PCE factors in County's Guidelines.

As the Project is proposed to include shopping center and restaurant uses, pass-by percentages have been obtained from the ITE Trip Generation Manual (11rd Edition, 2021). (10) Pass-by trips account for trips that are currently on the existing roadway network that would stop by uses within the proposed Project on their way to their ultimate destination. Pass-by trip reductions will be accounted for off-site intersections but will be added back to applicable commercial serving driveways to ensure access analysis accounts for all trips. Patrons of the uses may also visit other uses on-site, including the restaurants, and retail uses, without leaving the site. The ITE Trip Generation Handbook has been utilized to determine the internal capture for the applicable mix of uses.

Internal capture is a percentage reduction that can be applied to the trip generation estimates for individual land uses to account for trips internal to the site. In other words, trips may be made between individual retail uses on-site and can be made either by walking or using internal roadways without using external streets. As the trip generation for the site was conservatively estimated based on individual land uses (commercial and restaurant uses) as opposed to the average ITE Shopping Center rate, an internal capture reduction was applied to recognize the interactions that would occur between the various complementary land uses. In addition, the Project includes uses that would likely interact with the restaurant and shopping center uses.

The internal capture is based on the National Cooperative Highway Research Program's (NCHRP Report 684) internal capture trip capture estimation tool. The NCHRP internal capture estimation tool is based on the methodology outlined in the ITE Trip Generation Handbook. These internal capture worksheets are attached to this scoping agreement.

The trip generation summary illustrating daily, and peak hour trip generation estimates for the proposed Project, including the Future Development uses, in actual vehicles and PCE are shown in Table 4-2 and Table 4-3, respectively. As shown in Table 4-2, the buildout of the proposed Project is anticipated to generate 8,820 two-way trip-ends per day in actual vehicles, with 864 actual AM peak hour trips and 732 actual PM peak hour trips. For the purposes of the operations analysis, the PCE trip generation shown in Table 4-3 has been utilized.

The trip generation summary illustrating daily, and peak hour trip generation estimates for the proposed Project, not including the Future Development uses, in actual vehicles and PCE are shown in Table 4-4 and Table 4-5, respectively. As shown in Table 4-4, the proposed Project, not including the Future Development uses, is anticipated to generate 2,228 two-way trip-ends per day in actual vehicles, with 212 actual AM peak hour trips and 218 actual PM peak hour trips. For the purposes of the operations analysis, the PCE trip generation shown in Table 4-5 has been utilized.

4.2 PROJECT TRIP DISTRIBUTION

The Project trip distribution and assignment process represents the directional orientation of traffic to and from the Project site. The trip distribution pattern is heavily influenced by the geographical location of the site, the location of surrounding uses, and the proximity to the regional freeway system. Since the distribution patterns is influence by the type of land use, separate distribution patterns have been evaluated for the residential, non-residential, and industrial (passenger cars and trucks) uses. The Project trip distribution patterns are shown on the following Exhibits:

- Exhibit 4-1: Project (Residential) Trip Distribution
    - Exhibit 4-2: Project (Residential) Detailed Site Trip Distribution
- Exhibit 4-3: Project (Retail) Trip Distribution
    - Exhibit 4-4: Project (Retail) Detailed Site Trip Distribution
- Exhibit 4-5: Project (Business Park – Passenger Cars) Trip Distribution
    - Exhibit 4-6: Project (Business Park - Passenger Cars) Detailed Inbound Site Trip Distribution
    - Exhibit 4-7: Project (Business Park – Passenger Cars) Detailed Outbound Site Trip Distribution
- Exhibit 4-8: Project (Business Park - Trucks) Trip Distribution
    - Exhibit 4-9: Project (Business Park - Trucks) Detailed Inbound Site Trip Distribution
    - Exhibit 4-10: Project (Business Park – Trucks) Detailed Outbound Site Trip Distribution

TABLE 4-2: PROJECT TRIP GENERATION SUMMARY (ACTUAL)

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicles:									
Truck/Trailer Parking Lot	12.2	Acres							
Passenger Cars:			0	7	7	4	0	4	50
2-axle Trucks:			1	1	2	1	0	1	76
3-axle Trucks:			1	0	1	0	4	4	106
4+-axle Trucks:			0	0	0	0	0	0	4
Total Truck Trips (Actual Vehicles):			2	1	3	1	4	5	186
Truck Parking Lot Total Trips (Actual Vehicles)[2]			**2**	**8**	**10**	**5**	**4**	**9**	**236**
Warehousing	972.817	TSF							
Passenger Cars:			117	29	146	33	112	145	1,080
2-axle Trucks:			2	1	3	3	2	5	98
3-axle Trucks:			2	2	4	3	3	6	122
4+-axle Trucks:			7	5	12	10	9	19	366
Total Truck Trips (Actual Vehicles):			11	8	19	16	14	30	586
Warehousing Total Trips (Actual Vehicles)[2]			**128**	**37**	**165**	**49**	**126**	**175**	**1,666**
Business Park	191.378	TSF							
Passenger Cars:			49	8	57	11	46	57	536
2-axle Trucks:			1	1	2	0	1	1	18
3-axle Trucks:			1	1	2	1	1	2	24
4+-axle Trucks:			2	3	5	2	3	5	68
Total Truck Trips (Actual Vehicles):			4	5	9	3	5	8	110
Business Park Total Trips (Actual Vehicles)[2]			**53**	**13**	**66**	**14**	**51**	**65**	**646**
Multifamily (Low-Rise) Residential	466	DU	45	142	187	150	88	238	3,142
Internal Capture			-3	-29	-32	-33	-21	-54	-714
Residential Total Trips			**42**	**113**	**155**	**117**	**67**	**184**	**2,428**
Fast-food Without Drive-Through	10.000	TSF	250	181	431	166	166	332	4,506
Fast-food With Drive-Through	10.000	TSF	228	219	447	172	159	331	4,676
Internal Capture			-29	-3	-32	-28	-41	-69	-956
Pass-by Reduction (50% - AM; 55% - PM/Daily)			-199	-199	-398	-156	-156	-312	-4,524
Restaurant Total Trips			**250**	**198**	**448**	**154**	**128**	**282**	**3,702**
Strip Retail	10.225	TSF	14	10	24	34	34	68	558
Internal Capture			-2	-2	-4	-20	-19	-39	-322
Pass-by Reduction (40% - PM/Daily)			0	0	0	-6	-6	-12	-94
Retail Total Trips			**12**	**8**	**20**	**8**	**9**	**17**	**142**
Passenger Cars			470	363	833	327	362	689	7,938
Trucks			17	14	31	20	23	43	882
Total Trips (Actual Vehicles)[2]			**487**	**377**	**864**	**347**	**385**	**732**	**8,820**

[1] TSF = thousand square feet; DU = Dwelling Units

[2] Total Trips = Passenger Cars + Truck Trips.

TABLE 4-3: PROJECT TRIP GENERATION SUMMARY (PCE)

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicles:									
Truck/Trailer Parking Lot	12.2	Acres							
Passenger Cars:			0	7	7	4	0	4	50
2-axle Trucks:			2	1	3	2	0	2	116
3-axle Trucks:			3	0	3	0	8	8	214
4+-axle Trucks:			0	0	0	0	0	0	10
Total Truck Trips (PCE):			5	1	6	2	8	10	340
Truck Parking Lot Total Trips (PCE)[2]			**5**	**8**	**13**	**6**	**8**	**14**	**390**
Warehousing	972.817	TSF							
Passenger Cars:			117	29	146	33	112	145	1,080
2-axle Trucks:			3	2	5	4	3	7	146
3-axle Trucks:			4	4	8	6	6	12	242
4+-axle Trucks:			20	16	36	29	26	55	1,096
Total Truck Trips (PCE):			27	22	49	39	35	74	1,484
Warehousing Total Trips (PCE)[2]			**144**	**51**	**195**	**72**	**147**	**219**	**2,564**
Business Park	191.378	TSF							
Passenger Cars:			49	8	57	11	46	57	536
2-axle Trucks:			1	1	2	1	1	2	28
3-axle Trucks:			1	2	3	1	2	3	46
4+-axle Trucks:			6	8	14	5	9	14	206
Total Truck Trips (PCE):			8	11	19	7	12	19	280
Business Park Total Trips (PCE)[2]			**57**	**19**	**76**	**18**	**58**	**76**	**816**
Multifamily (Low-Rise) Residential	466	DU	45	142	187	150	88	238	3,142
Internal Capture			-3	-29	-32	-33	-21	-54	-714
Residential Total Trips			**42**	**113**	**155**	**117**	**67**	**184**	**2,428**
Fast-food Without Drive-Through	10.000	TSF	250	181	431	166	166	332	4,506
Fast-food With Drive-Through	10.000	TSF	228	219	447	172	159	331	4,676
Internal Capture			-29	-3	-32	-28	-41	-69	-956
Pass-by Reduction (50% - AM; 55% - PM/Daily)			-199	-199	-398	-156	-156	-312	-4,524
Restaurant Total Trips			**250**	**198**	**448**	**154**	**128**	**282**	**3,702**
Strip Retail	10.225	TSF	14	10	24	34	34	68	558
Internal Capture			-2	-2	-4	-20	-19	-39	-322
Pass-by Reduction (40% - PM/Daily)			0	0	0	-6	-6	-12	-94
Retail Total Trips			**12**	**8**	**20**	**8**	**9**	**17**	**142**
Passenger Cars			470	363	833	327	362	689	7,938
Trucks			40	34	74	48	55	103	2,104
Total Trips (PCE)[2]			**510**	**397**	**907**	**375**	**417**	**792**	**10,042**

[1] TSF = thousand square feet; DU = Dwelling Units

[2] Total Trips = Passenger Cars + Truck Trips.

TABLE 4-4: PROJECT TRIP GENERATION SUMMARY (ACTUAL)

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicles:									
Truck/Trailer Parking Lot	10.1	Acres							
Passenger Cars:			0	6	6	3	0	3	40
2-axle Trucks:			1	0	1	1	0	1	64
3-axle Trucks:			1	0	1	0	3	3	88
4+-axle Trucks:			0	0	0	0	0	0	4
Total Truck Trips (Actual Vehicles):			2	0	2	1	3	4	156
Truck Parking Lot Total Trips (Actual Vehicles)[2]			**2**	**6**	**8**	**4**	**3**	**7**	**196**
Warehousing	809.217	TSF							
Passenger Cars:			97	24	121	28	94	122	898
2-axle Trucks:			2	1	3	2	2	4	82
3-axle Trucks:			2	2	4	2	3	5	102
4+-axle Trucks:			6	4	10	8	7	15	304
Total Truck Trips (Actual Vehicles):			10	7	17	12	12	24	488
Warehousing Total Trips (Actual Vehicles)[2]			**107**	**31**	**138**	**40**	**106**	**146**	**1,386**
Business Park	191.378	TSF							
Passenger Cars:			49	8	57	11	46	57	536
2-axle Trucks:			1	1	2	0	1	1	18
3-axle Trucks:			1	1	2	1	1	2	24
4+-axle Trucks:			2	3	5	2	3	5	68
Total Truck Trips (Actual Vehicles):			4	5	9	3	5	8	110
Business Park Total Trips (Actual Vehicles)[2]			**53**	**13**	**66**	**14**	**51**	**65**	**646**
Passenger Cars			146	38	184	42	140	182	1,474
Trucks			16	12	28	16	20	36	754
Total Trips (Actual Vehicles)[2]			**162**	**50**	**212**	**58**	**160**	**218**	**2,228**

[1] TSF = thousand square feet

[2] Total Trips = Passenger Cars + Truck Trips.

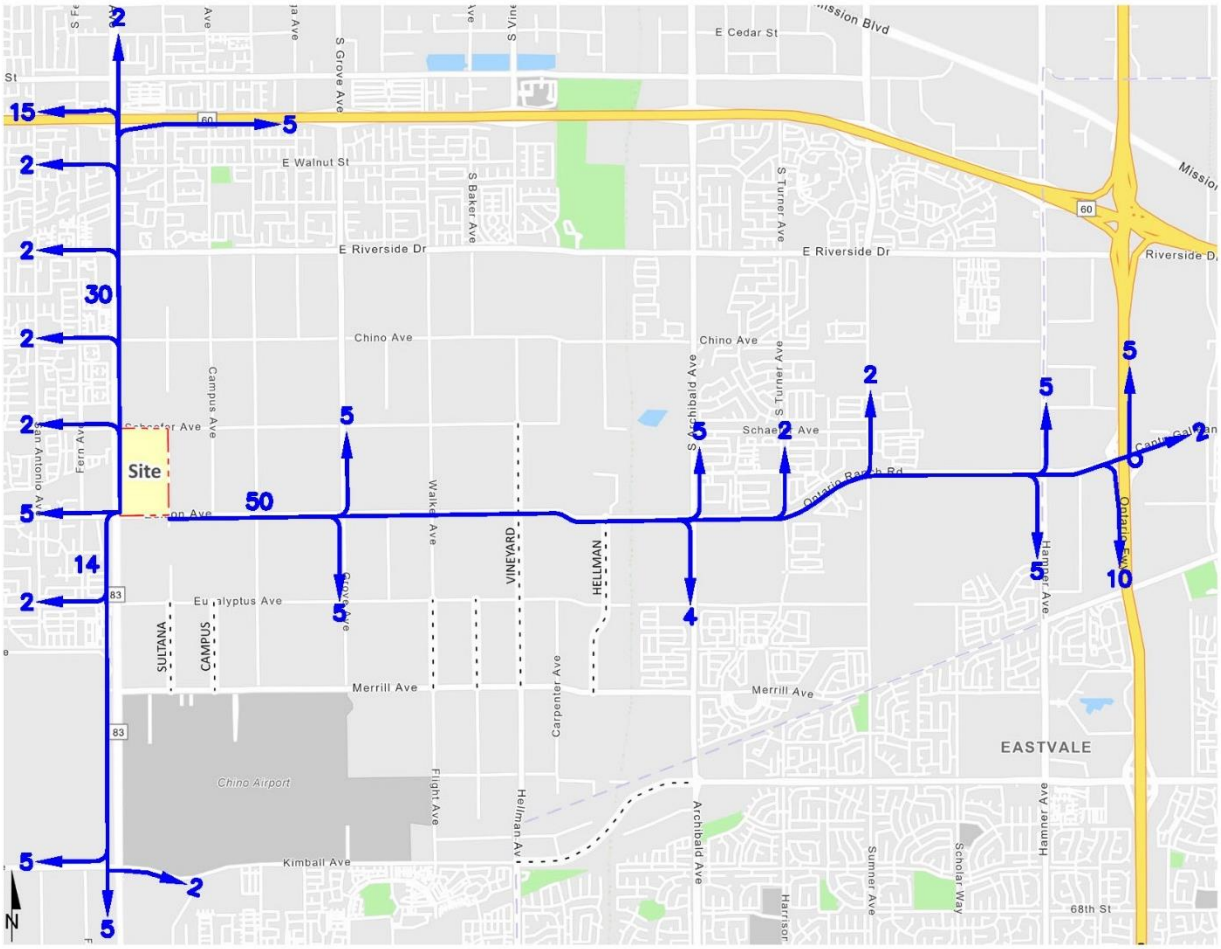
TABLE 4-5: PROJECT TRIP GENERATION SUMMARY (PCE)

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicles:									
Truck/Trailer Parking Lot	10.1	Acres							
Passenger Cars:			0	6	6	3	0	3	40
2-axle Trucks:			2	1	3	2	0	2	96
3-axle Trucks:			2	0	2	0	7	7	176
4+-axle Trucks:			0	0	0	0	0	0	10
Total Truck Trips (PCE):			4	1	5	2	7	9	282
Truck Parking Lot Total Trips (PCE)[2]			**4**	**7**	**11**	**5**	**7**	**12**	**322**
Warehousing	809.217	TSF							
Passenger Cars:			97	24	121	28	94	122	898
2-axle Trucks:			2	2	4	4	2	6	122
3-axle Trucks:			3	3	6	5	5	10	201
4+-axle Trucks:			17	13	30	24	21	45	912
Total Truck Trips (PCE):			22	18	40	33	28	61	1,235
Warehousing Total Trips (PCE)[2]			**119**	**42**	**161**	**61**	**122**	**183**	**2,133**
Business Park	191.378	TSF							
Passenger Cars:			49	8	57	11	46	57	536
2-axle Trucks:			1	1	2	1	1	2	28
3-axle Trucks:			1	2	3	1	2	3	46
4+-axle Trucks:			6	8	14	5	9	14	206
Total Truck Trips (PCE):			8	11	19	7	12	19	280
Business Park Total Trips (PCE)[2]			**57**	**19**	**76**	**18**	**58**	**76**	**816**
Passenger Cars			146	38	184	42	140	182	1,474
Trucks			34	30	64	42	47	89	1,797
Total Trips (PCE)[2]			**180**	**68**	**248**	**84**	**187**	**271**	**3,271**

[1] TSF = thousand square feet

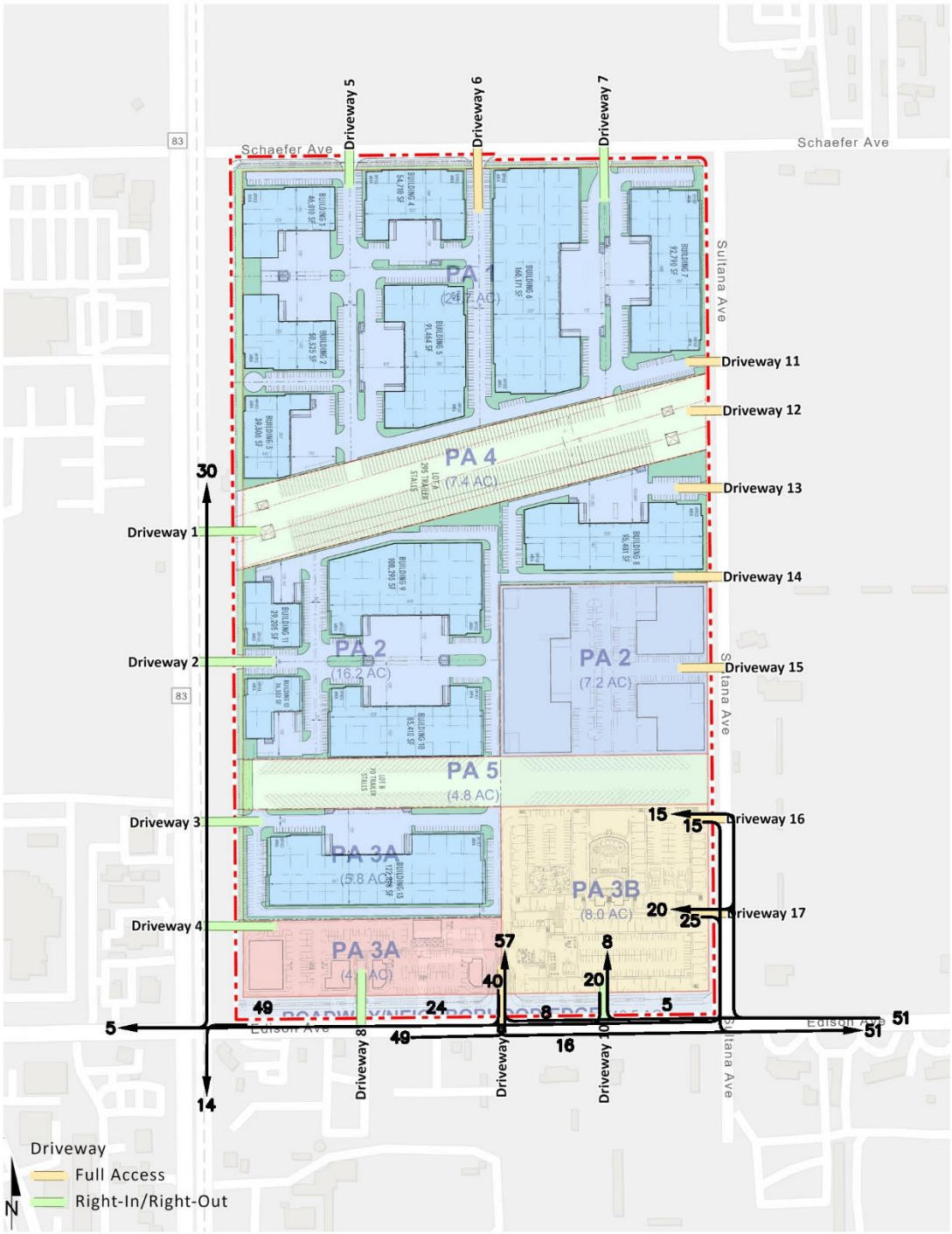
[2] Total Trips = Passenger Cars + Truck Trips.

EXHIBIT 4-1: PROJECT (RESIDENTIAL) TRIP DISTRIBUTION



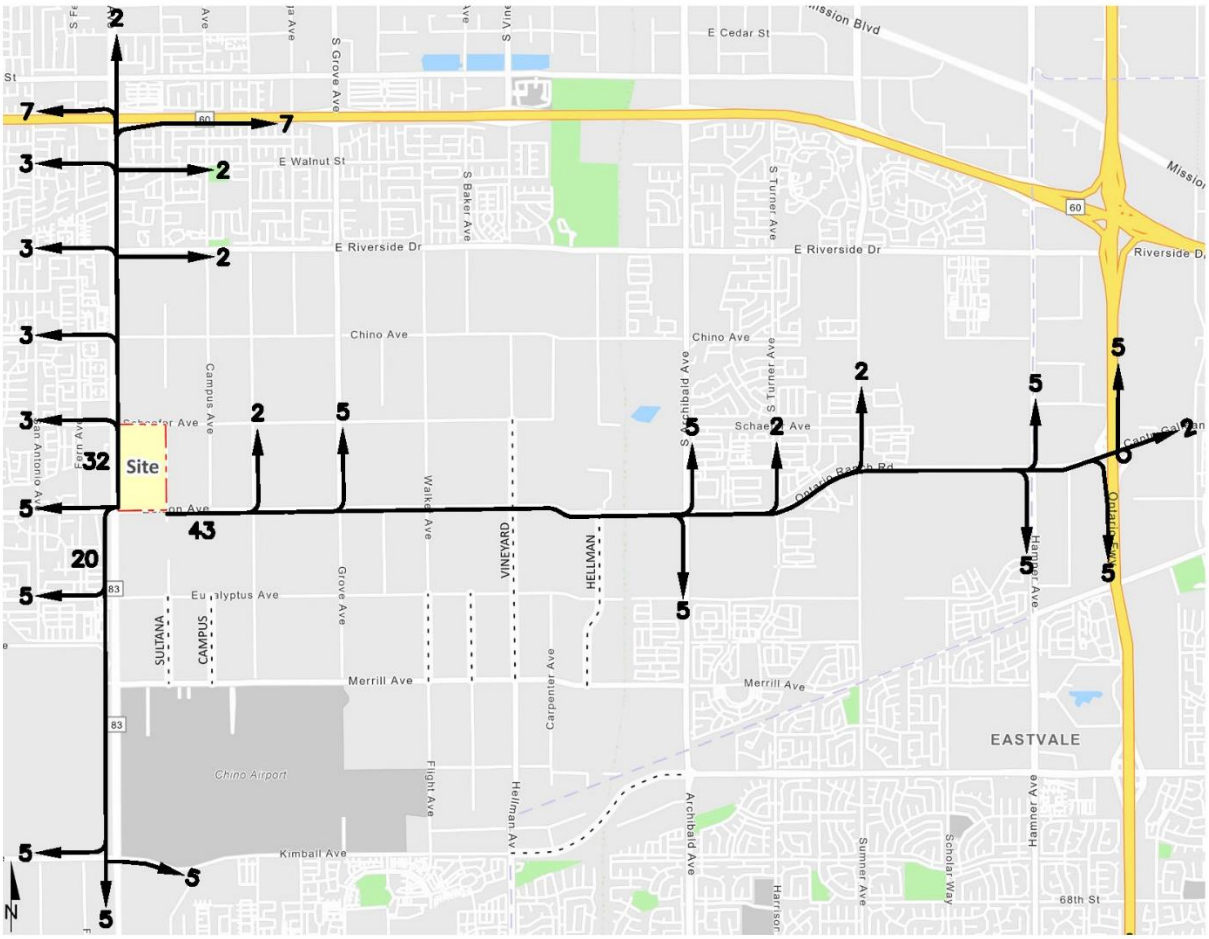
10 = Percent To/From Project

EXHIBIT 4-2: PROJECT (RESIDENTIAL) DETAILED SITE TRIP DISTRIBUTION



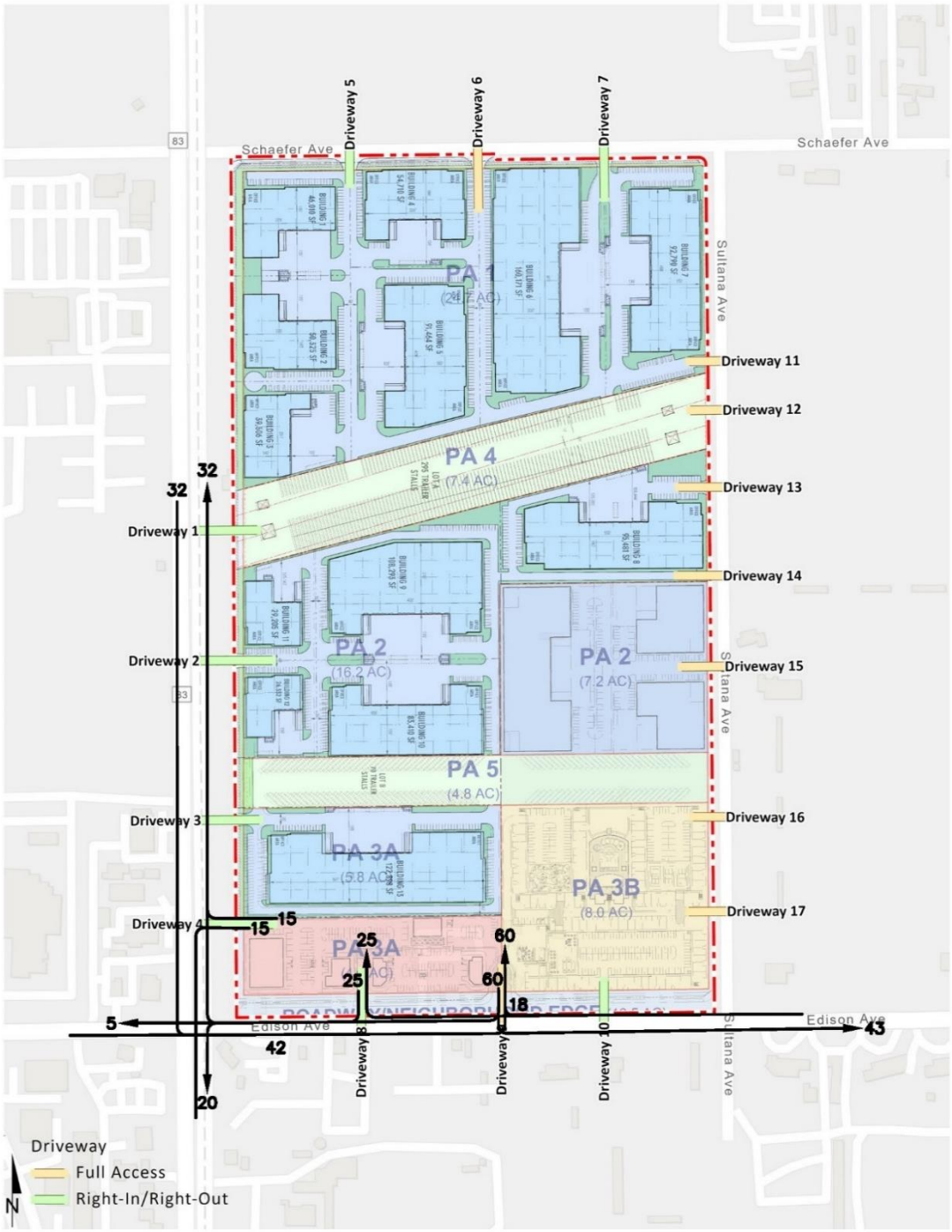
10 ***= Percent To/From Project***

EXHIBIT 4-3: PROJECT (RETAIL) TRIP DISTRIBUTION



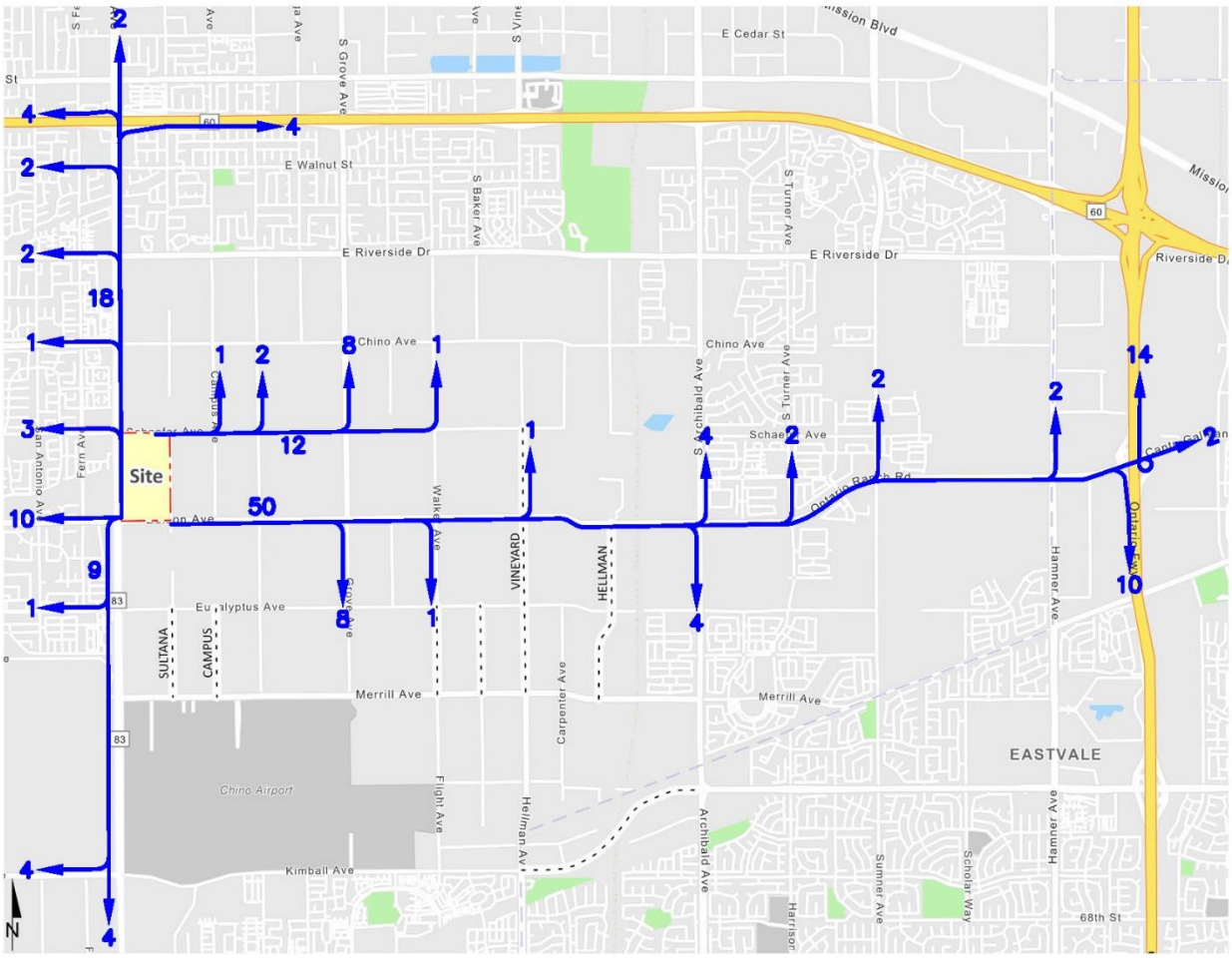
10 = *Percent To/From Project*

EXHIBIT 4-4: PROJECT (RETAIL) DETAILED SITE TRIP DISTRIBUTION



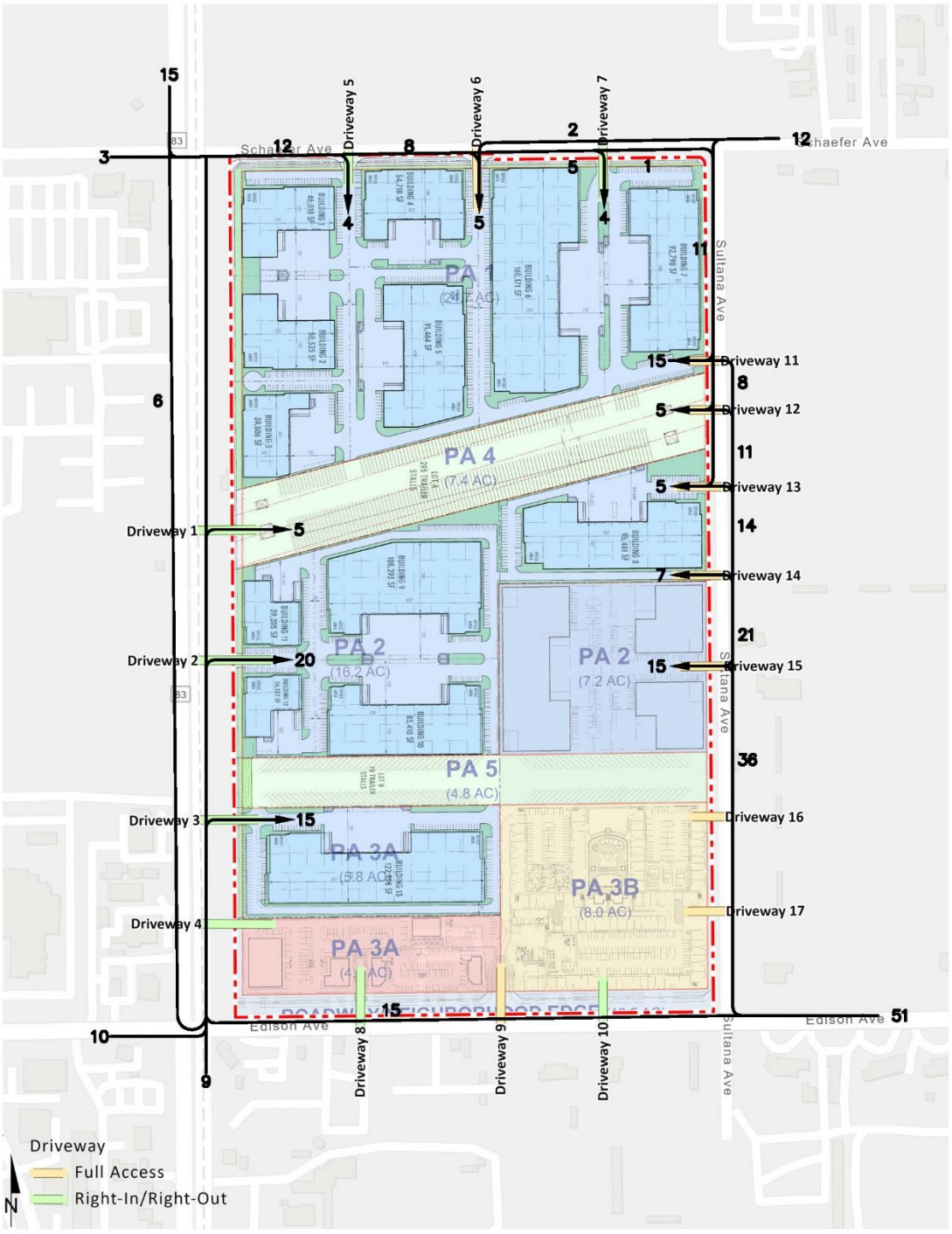
10 ***= Percent To/From Project***

EXHIBIT 4-5: PROJECT (BUSINESS PARK – PASSENGER CARS) TRIP DISTRIBUTION



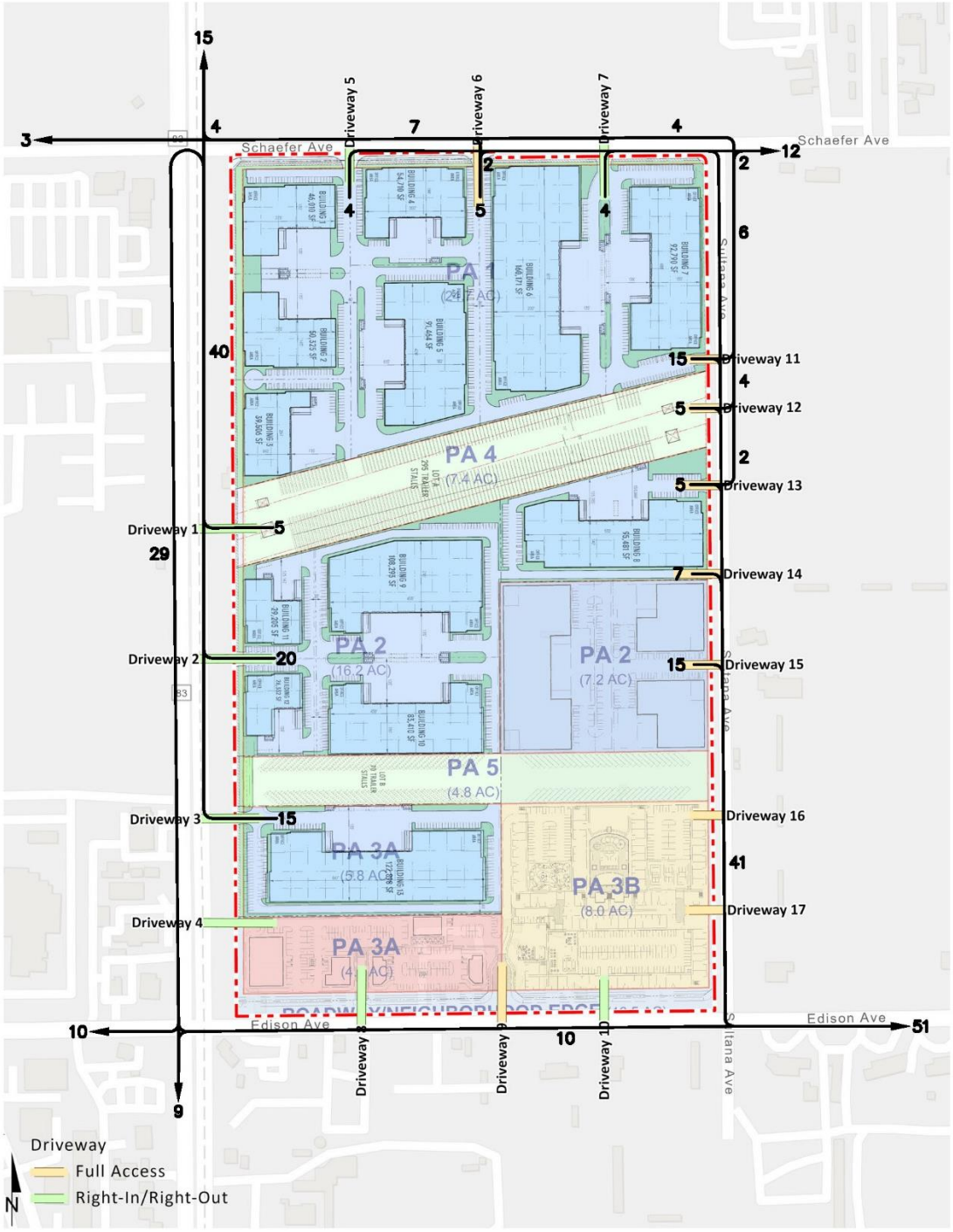
10 = Percent To/From Project

EXHIBIT 4-6: PROJECT (BUSINESS PARK – PASSENGER CARS) DETAILED INBOUND SITE TRIP DISTRIBUTION



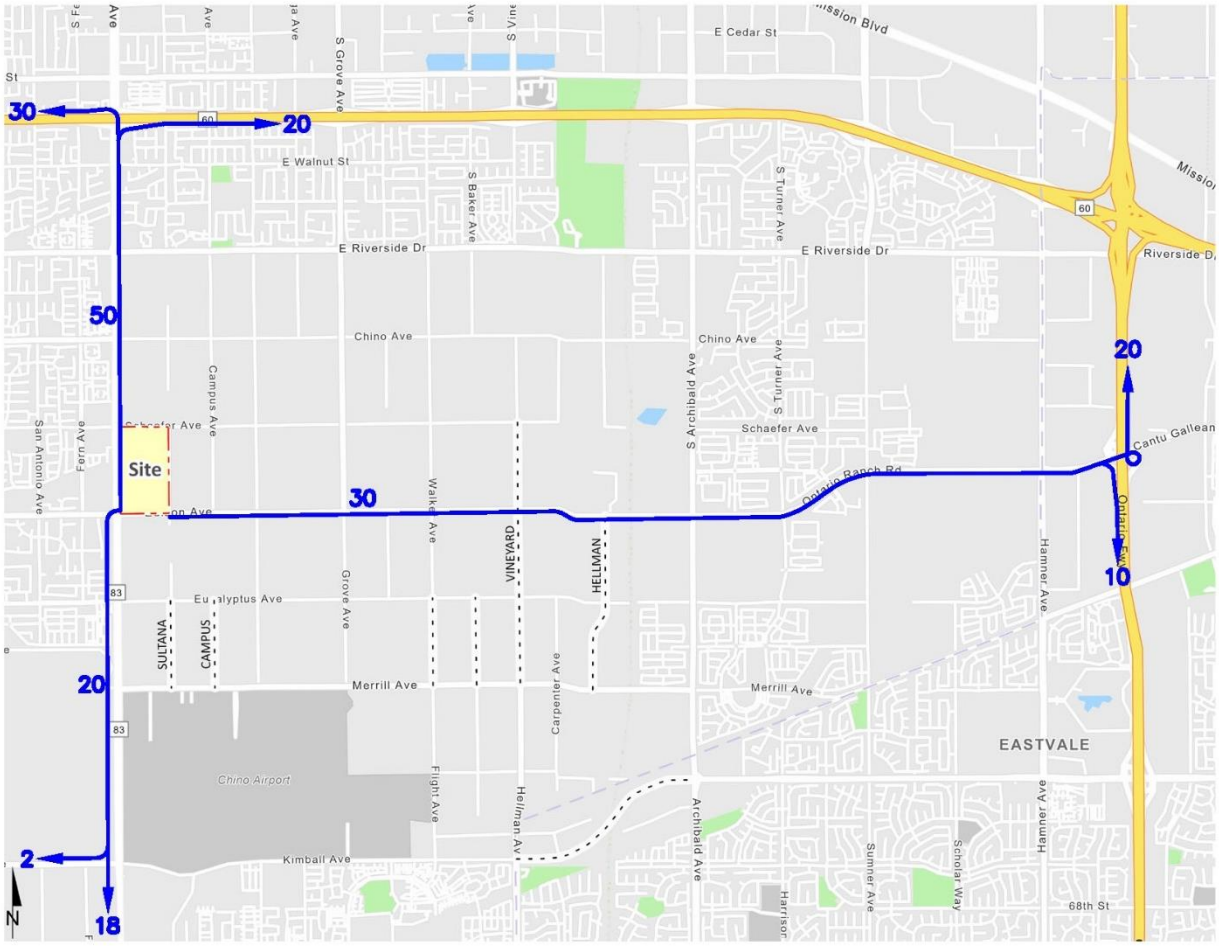
10 = *Percent To/From Project*

EXHIBIT 4-7: PROJECT (BUSINESS PARK – PASSENGER CARS) DETAILED OUTBOUND SITE TRIP DISTRIBUTION



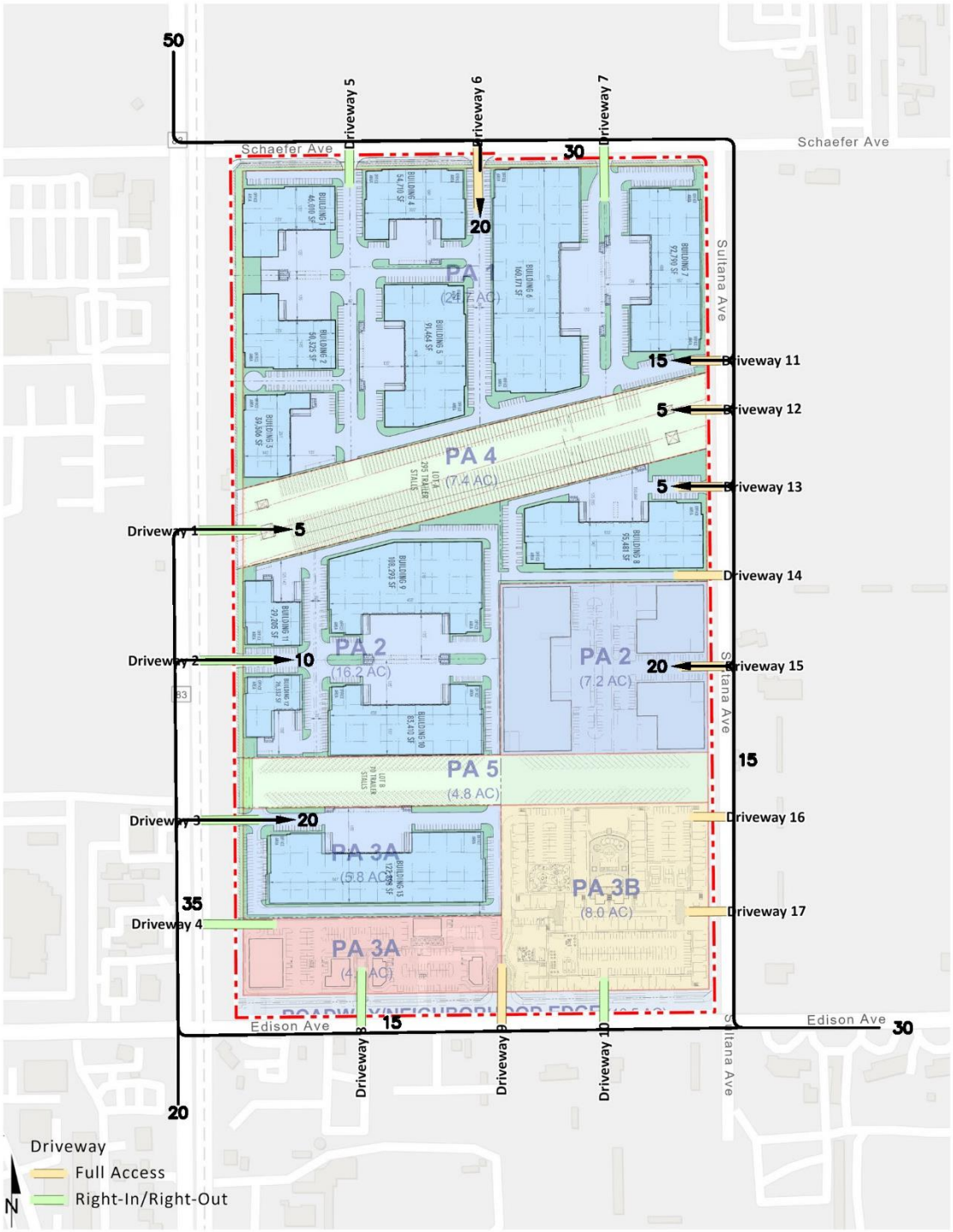
10 ***= Percent To/From Project***

EXHIBIT 4-8: PROJECT (BUSINESS PARK – TRUCKS) TRIP DISTRIBUTION



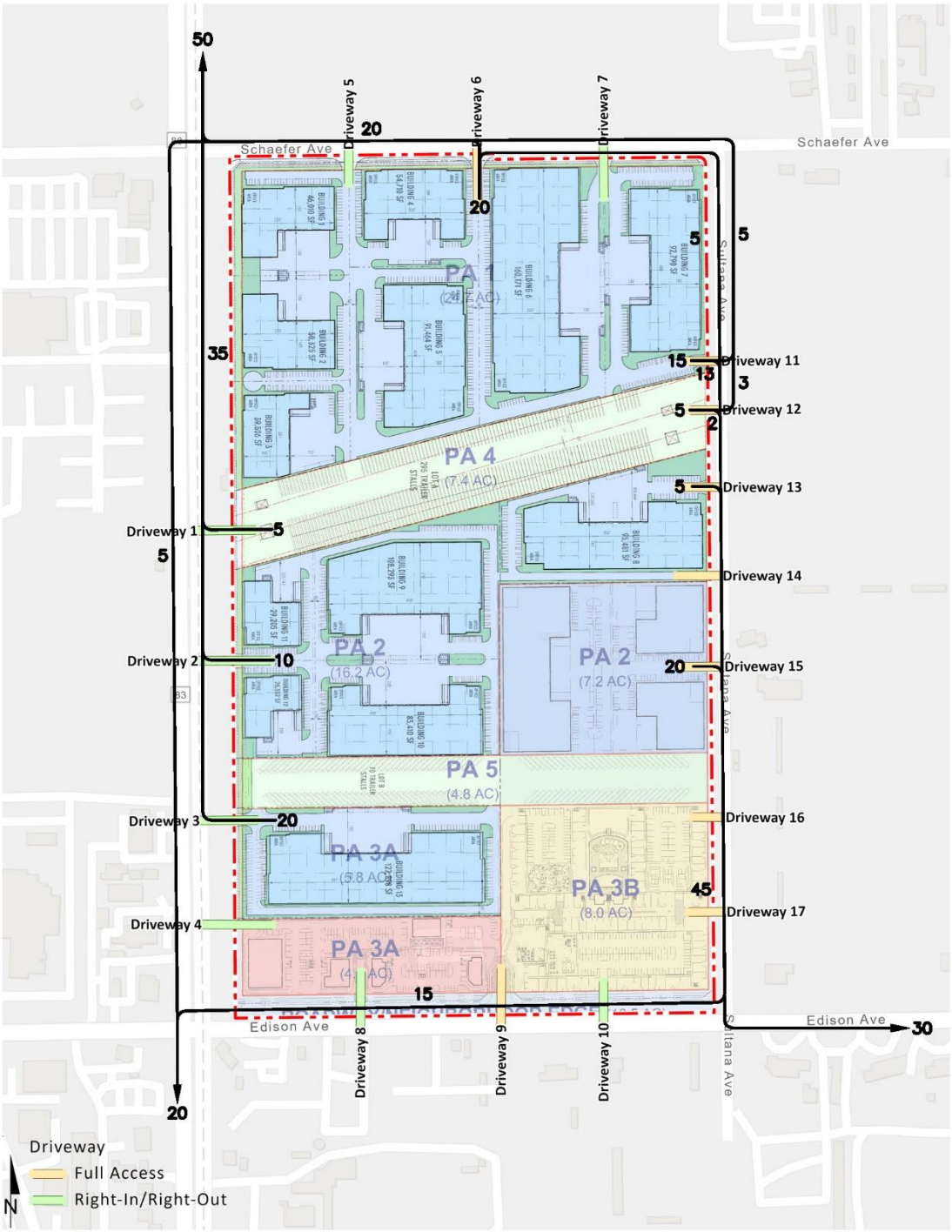
10 = Percent To/From Project

EXHIBIT 4-9: PROJECT (BUSINESS PARK – TRUCKS) DETAILED INBOUND SITE TRIP DISTRIBUTION



10 ***= Percent To/From Project***

EXHIBIT 4-10: PROJECT (BUSINESS PARK – TRUCKS) DETAILED OUTBOUND SITE TRIP DISTRIBUTION



10 ***= Percent To/From Project***

4.3 MODAL SPLIT

The potential for Project trips to be reduced by the use of public transit, walking or bicycling have not been included as part of the Project's estimated trip generation. Essentially, the Project's traffic projections are "conservative" in that these alternative travel modes would reduce the forecasted traffic volumes.

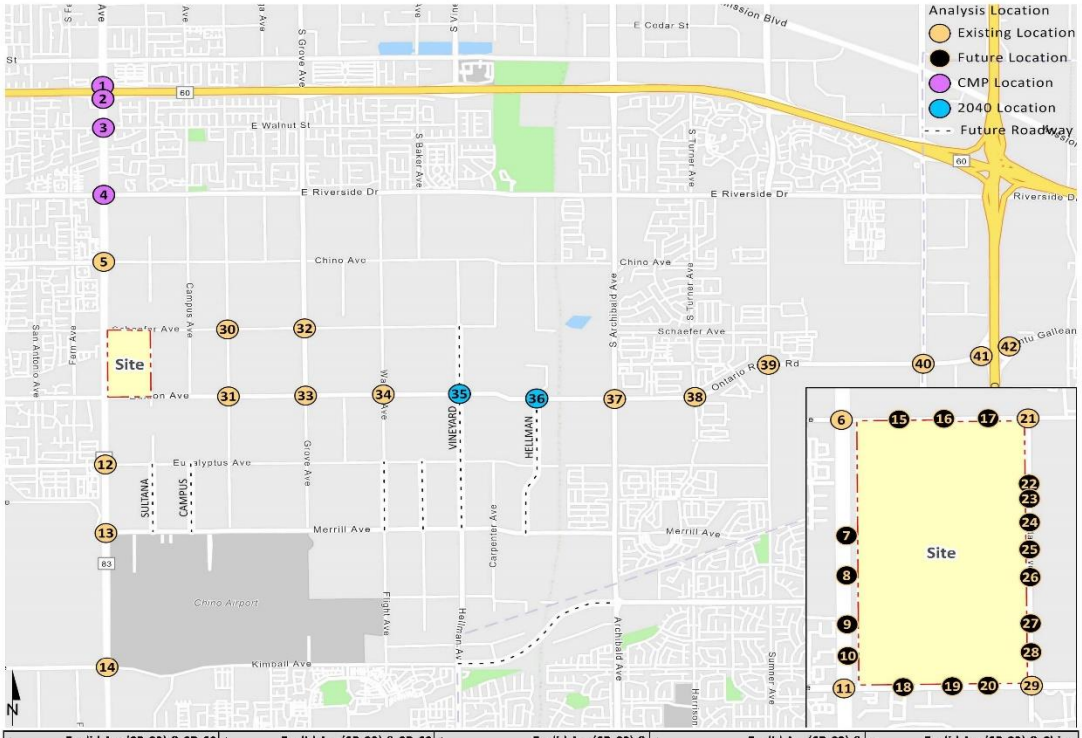
4.4 PROJECT TRIP ASSIGNMENT

The assignment of traffic from the Project area to the adjoining roadway system is based upon the Project trip generation, trip distribution, and the arterial highway and local street system improvements that would be in place by the time of initial occupancy of the Project. Based on the identified Project traffic generation and trip distribution patterns, Project weekday ADT and weekday peak hour intersection turning movement volumes, with Future Development uses and without Future Development uses, in actual vehicles, are shown on Exhibit 4-11 and Exhibit 4-12, respectively.

4.5 BACKGROUND TRAFFIC

Future year traffic forecasts have been based upon background (ambient) growth at 2% per year, compounded annually, for 2027 traffic conditions. The total ambient growth is 10.41% for 2027 traffic conditions. The ambient growth factor is intended to approximate regional traffic growth. This ambient growth rate is added to existing traffic volumes to account for area-wide growth not reflected by cumulative development projects. Ambient growth has been added to daily and peak hour traffic volumes on surrounding roadways, in conjunction with traffic generated by the development of future projects that have been approved but not yet built and/or for which development applications have been filed and are under consideration by governing agencies. 2027 traffic volumes are provided in Section 6 of this report. The traffic generated by the proposed Project was then manually added to the base volume to determine With Project forecasts.

EXHIBIT 4-11: PROJECT ONLY TRAFFIC VOLUMES (WITH FUTURE DEVELOPMENT USES) (PAGE 1 OF 2)



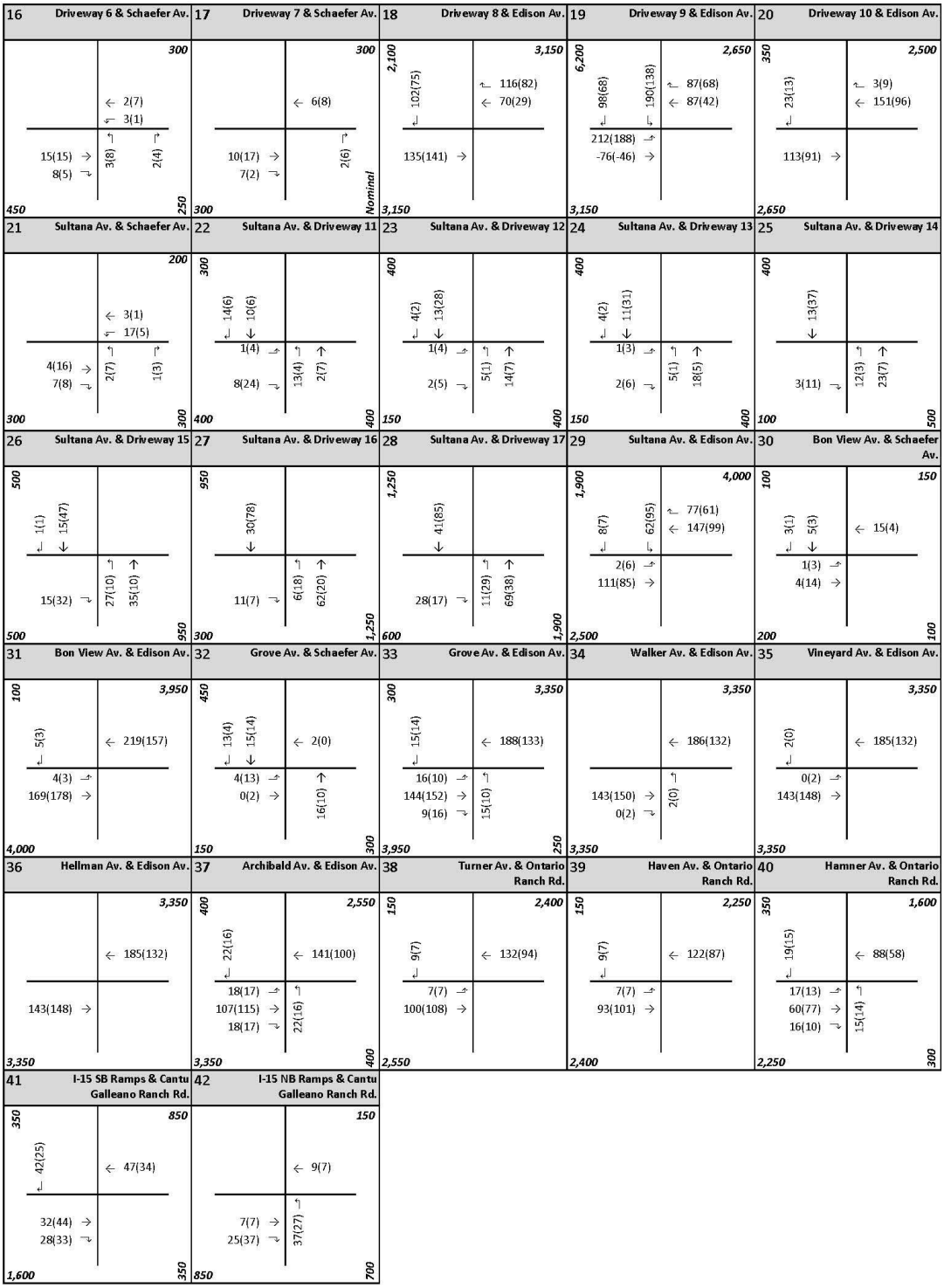
1 Euclid Av. (SR-83) & SR-60 WB Ramps	2 Euclid Av. (SR-83) & SR-60 EB Ramps	3 Euclid Av. (SR-83) & Walnut Av.	4 Euclid Av. (SR-83) & Riverside Dr.	5 Euclid Av. (SR-83) & Chino Av.
150 / 300	950 / 300	1,750 / 100	2,050 / 100	2,300
↓ 9(7)	↓ 40(30)	↓ 76(66)	↓ 94(78)	↓ 111(89)
↰ 30(23)		← 5(3)	← 5(3)	
↰ 37(33) ↑ 7(7)	↑ 45(40) ↱ 25(24)	↰ 9(9) ↑ 69(64) ↱ 4(3)	↰ 9(9) ↑ 83(75) ↱ 4(3)	↰ 9(7) ↑ 96(87)
500 / 950	500 / 1,750	200 / 2,050	200 / 2,300	200 / 2,500
	← 36(37)	← 12(8)	← 12(8)	← 10(8)

6 Euclid Av. (SR-83) & Schaefer Av.	7 Euclid Av. (SR-83) & Driveway 1	8 Euclid Av. (SR-83) & Driveway 2	9 Euclid Av. (SR-83) & Driveway 3	10 Euclid Av. (SR-83) & Driveway 4
2,500 / 450	2,750 / 150	2,750 / 400	2,750 / 450	2,750 / 1,250
↓ 98(83) ↓ 23(14)	↓ 120(137)	↓ 120(137)	↓ 120(137)	↓ 120(137)
← 4(10) ← 1(5) ↰ 1(1)	← 3(9)	← 10(34)	← 9(28)	← 61(45)
5(1) → 9(7) ↱ ↰ 21(51) ↑ 101(84)	↑ 119(126) ↱ 9(3)	↑ 118(96) ↱ 35(12)	↑ 144(79) ↱ 28(11)	↱ 69(48)
450 / 2,500	2,750	2,750	2,750	2,750

11 Euclid Av. (SR-83) & Edison Av.	12 Euclid Av. (SR-83) & Eucalyptus Av.	13 Euclid Av. (SR-83) & Merrill Av.	14 Euclid Av. (SR-83) & Kimball Av.	15 Driveway 5 & Schaefer Av.
2,700 / 3,200	1,450	1,200	1,200 / 250	450
↓ 4(16) ↓ 5(15) ↓ 111(106)	↓ 13(10) ↓ 51(46)	↓ 51(46)	↓ 18(17) ↓ 20(21) ↓ 13(8)	← 6(16)
← 96(54) ← 16(10) ↰ 59(40)			↱ 14(10)	
17(5) → 15(14) → ↑ 58(33) ↱ 19(24)	← 16(11) → ↑ 61(46)	↑ 61(46)	22(16) → ↑ 25(19)	22(14) → 7(2) ↱ 2(6)
500 / 1,450	250 / 1,200	1,200	400 / 550	450 / Nominal

##(##) AM(PM) Peak Hour Intersection Volumes
Average Daily Trips

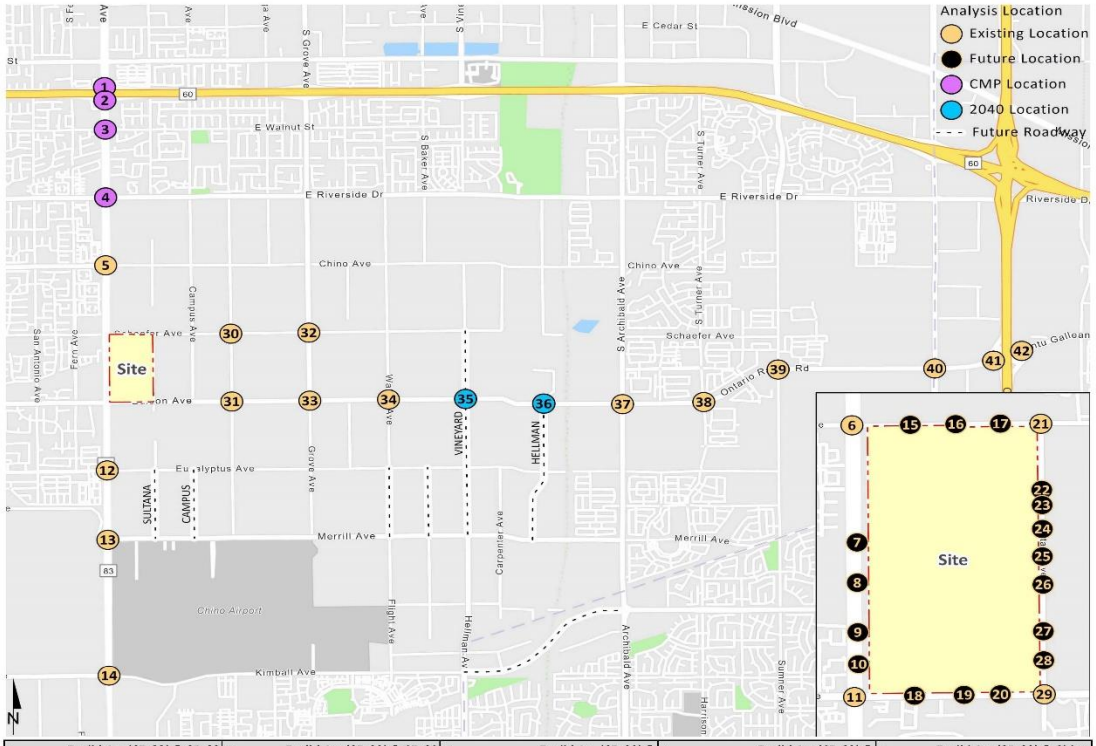
EXHIBIT 4-11: PROJECT ONLY TRAFFIC VOLUMES (WITH FUTURE DEVELOPMENT USES) (PAGE 2 OF 2)



##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

EXHIBIT 4-12: PROJECT ONLY TRAFFIC VOLUMES (WITHOUT FUTURE DEVELOPMENT USES) (PAGE 1 OF 2)



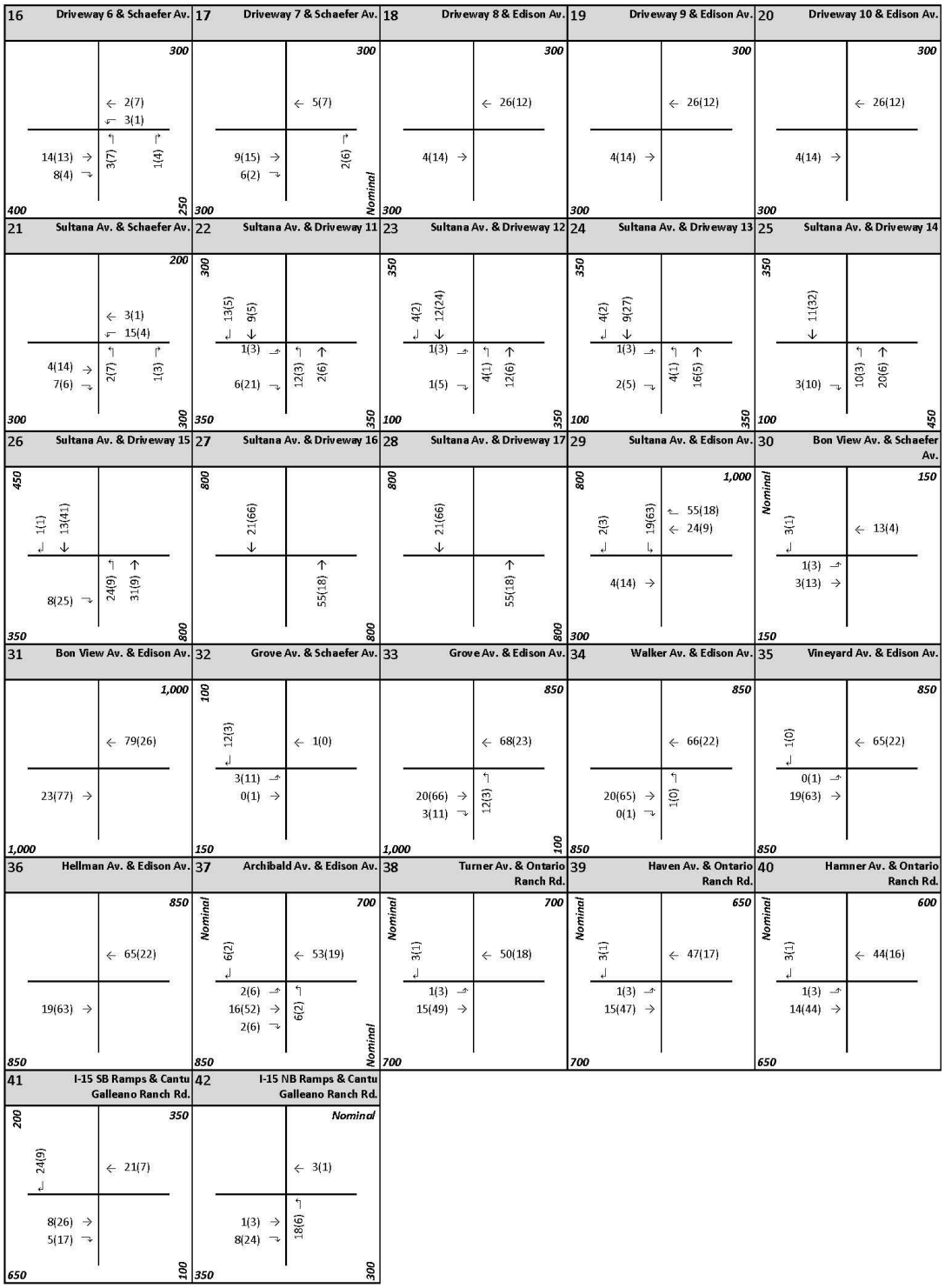
1 Euclid Av. (SR-83) & SR-60 WB Ramps	2 Euclid Av. (SR-83) & SR-60 EB Ramps	3 Euclid Av. (SR-83) & Walnut Av.	4 Euclid Av. (SR-83) & Riverside Dr.	5 Euclid Av. (SR-83) & Chino Av.
Nominal / 100 / 150 / 300	300 / 100 / 150 / 550	500 / Nominal / 550	550 / Nominal / 600	600 / 600
3(1) ←	12(6) ←	23(12) ←	26(13) ←	28(14) ←
9(5) ↰	11(6) ↴	3(1) ↴	3(1) ↴	1(0) ↴
5(12) ↰ 1(3) ↑	6(14) ↑ 4(10) ↱	1(3) ↰ 10(24) ↑	1(3) ↰ 11(27) ↑	0(1) ↰ 11(30) ↑

6 Euclid Av. (SR-83) & Schaefer Av.	7 Euclid Av. (SR-83) & Driveway 1	8 Euclid Av. (SR-83) & Driveway 2	9 Euclid Av. (SR-83) & Driveway 3	10 Euclid Av. (SR-83) & Driveway 4
600 / 400 / 250 / 500	700 / 100 / 700	700 / 350 / 700	700 / 350 / 700	700 / 700
9(3) ← 21(12) ↳	20(44) ←	20(44) ←	20(44) ←	20(44) ←
3(9) ← 1(4) ← 1(1) ↰	3(8) ↰	9(30) ↰	8(25) ↰	
4(1) →	17(55) → 8(3) ↱	16(28) → 31(10) ↱	39(13) → 25(10) ↱	
11(41) ↰ 8(22) ↑				

11 Euclid Av. (SR-83) & Edison Av.	12 Euclid Av. (SR-83) & Eucalyptus Av.	13 Euclid Av. (SR-83) & Merrill Av.	14 Euclid Av. (SR-83) & Kimball Av.	15 Driveway 5 & Schaefer Av.
650 / 350 / 150 / 300	300 / 250	250 / 250	250 / Nominal / 200	400 / Nominal / 400
4(14) ↲ 4(14) ← 13(17) ↳	0(1) ↲ 5(15) ←	5(15) ←	2(6) ↲ 4(9) ←	← 5(14)
24(9) ↰	1(0) →	15(7) →	6(2) →	20(11) → 6(2) ↳
15(4) → 2(3) ↰	15(7) →		9(5) →	2(6) ↱
16(7) ↑				

##(##) AM(PM) Peak Hour Intersection Volumes
Average Daily Trips

EXHIBIT 4-12: PROJECT ONLY TRAFFIC VOLUMES (WITHOUT FUTURE DEVELOPMENT USES) (PAGE 2 OF 2)



##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

4.6 CUMULATIVE DEVELOPMENT TRAFFIC

A cumulative project list was developed for the purposes of this analysis through consultation with planning and engineering staff from the City of Ontario and the neighboring jurisdictions of the City of Chino and City of Eastvale. The cumulative projects listed are those that would generate traffic and would contribute traffic to study area intersections. Exhibit 4-13 illustrates the cumulative development location map. A summary of cumulative development projects and their proposed land uses are shown in Table 4-4. If applicable, the traffic generated by individual cumulative projects was manually added to the Without Project forecasts to ensure that traffic generated by the listed cumulative development projects in Table 4-4 are reflected as part of the background traffic. In an effort to conduct a conservative analysis, the cumulative projects are added in conjunction with the ambient growth identified in Section 4.5 *Background Traffic*. The Cumulative Only ADT and peak hour intersection turning movement volumes, in actual vehicles, are shown on Exhibit 4-14.

4.7 NEAR-TERM TRAFFIC CONDITIONS

The "buildup" approach combines existing traffic counts with a background ambient growth factor to forecast Opening Year Cumulative (2027) traffic conditions. An ambient growth factor accounts for background (area-wide) traffic increases that occur over time up to the year 2027 from the year 2022. Traffic volumes generated by the Project are then added to assess the near-term traffic conditions. The 2027 roadway networks are similar to the Existing conditions roadway network, with the exception of future driveways proposed to be developed by the Project.

The near-term traffic analysis includes the following traffic conditions, with the various traffic components:

- Opening Year Cumulative (2027) Without Project
  - Existing 2022 counts
  - Ambient growth traffic (10.4%)
  - Cumulative Development Traffic

- Opening Year Cumulative (2027) With Project
  - Existing 2022 counts
  - Ambient growth traffic (10.4%)
  - Cumulative Development Traffic
  - Project (not including Future Development) traffic

EXHIBIT 4-13: CUMULATIVE DEVELOPMENT LOCATON MAP

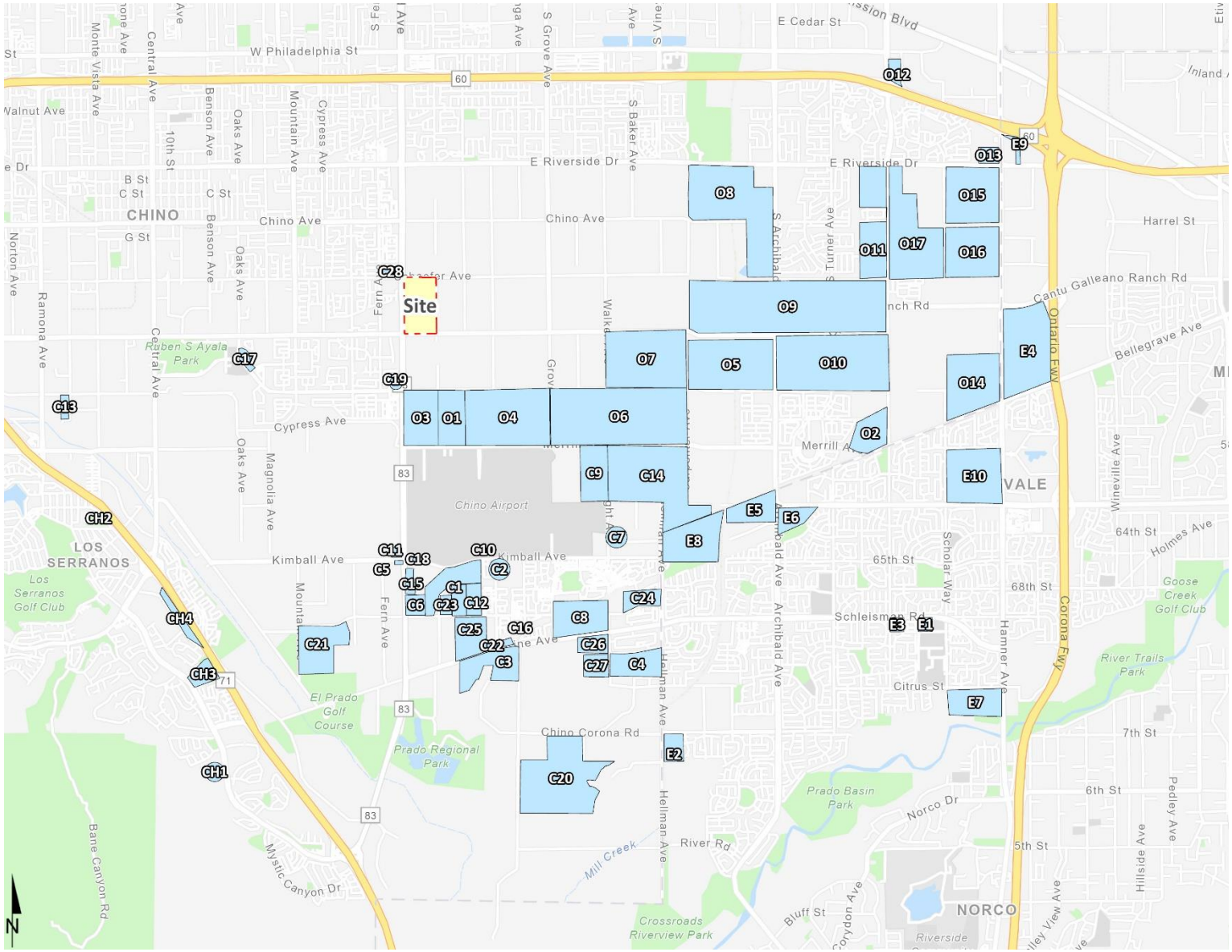
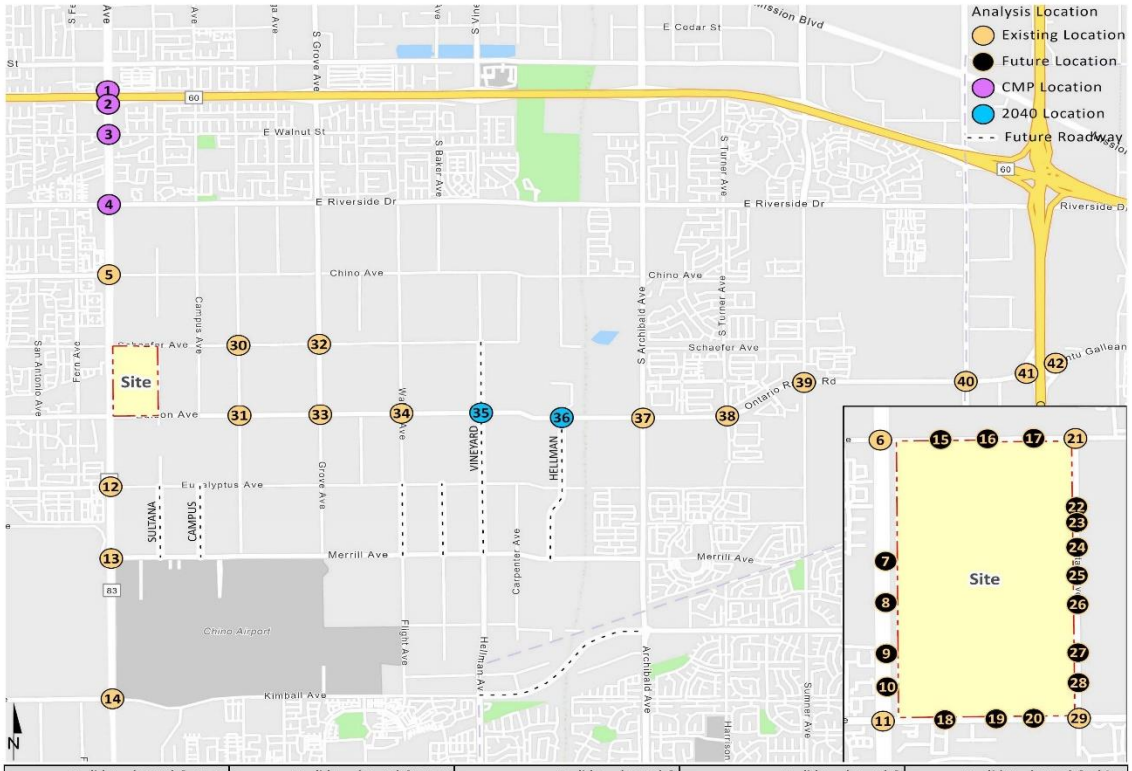


EXHIBIT 4-14: CUMULATIVE ONLY TRAFFIC VOLUMES (PAGE 1 OF 2)



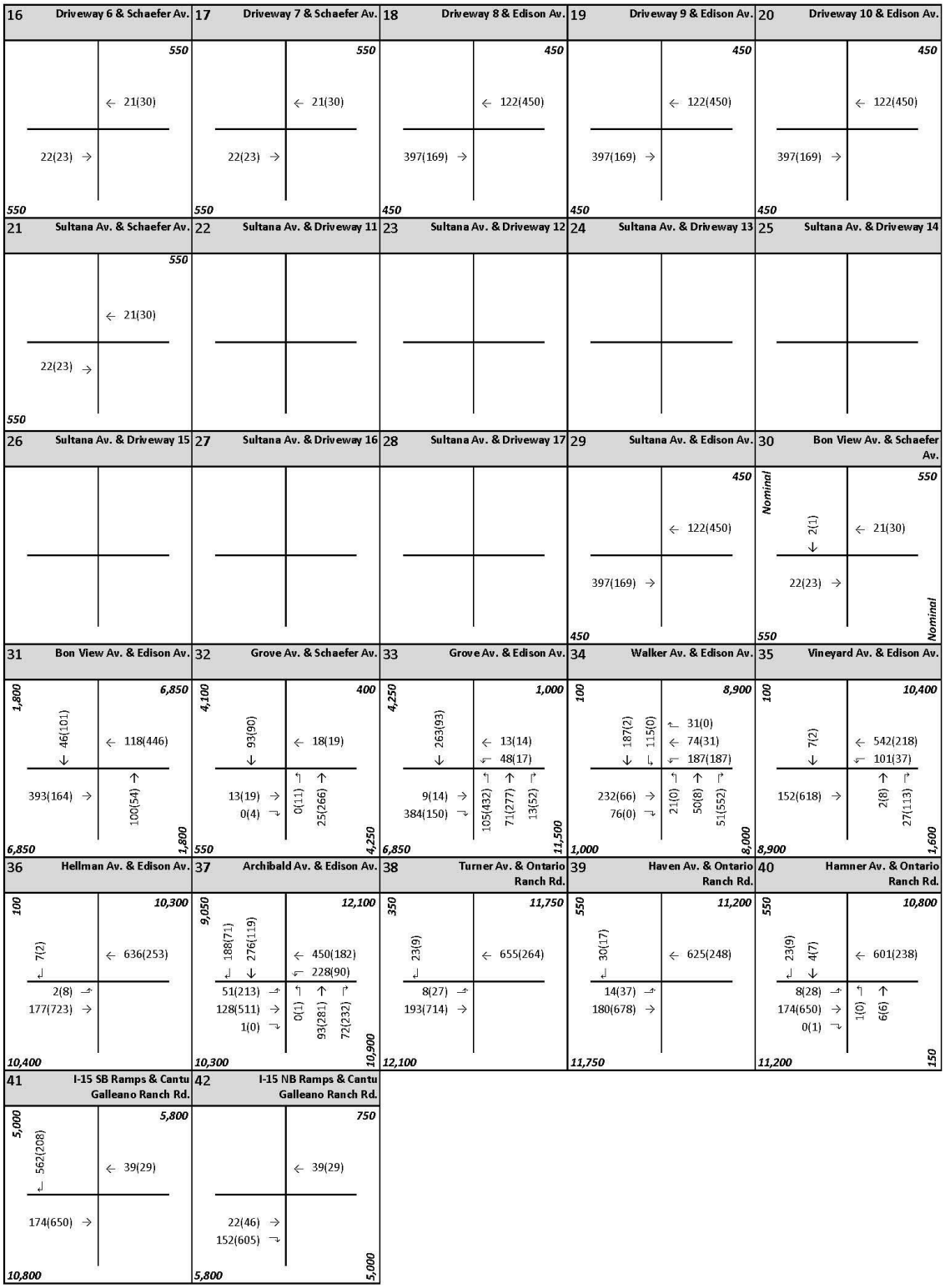
1 Euclid Av. (SR-83) & SR-60 WB Ramps	2 Euclid Av. (SR-83) & SR-60 EB Ramps	3 Euclid Av. (SR-83) & Walnut Av.	4 Euclid Av. (SR-83) & Riverside Dr.	5 Euclid Av. (SR-83) & Chino Av.
700 / 1,500	7,050 / 1,500	13,450 / 350	14,300 / 550	16,200 / 350
← 36(20)	← 184(107)	← 651(344)	← 697(379)	← 799(437)
↰ 148(87)		↰ 15(15)	↰ 23(24)	↰ 15(15)
189(492) ↱		14(34) ↱	26(92) ↱	13(33) ↱
16(44) →	204(534) →	272(692) →	296(742) →	341(857) →
	67(159) ↱	10(16) ↱	18(25) ↱	10(16) ↱
468(236) ↳		30(20) ↳	80(34) ↳	28(15) ↳
4,850 / 7,050	4,850 / 13,450	550 / 14,300	1,350 / 16,200	500 / 17,050

6 Euclid Av. (SR-83) & Schaefer Av.	7 Euclid Av. (SR-83) & Driveway 1	8 Euclid Av. (SR-83) & Driveway 2	9 Euclid Av. (SR-83) & Driveway 3	10 Euclid Av. (SR-83) & Driveway 4
16,450 / 550	15,700	15,700	15,700	15,700 / 300
31(33) ↳	← 779(396)	← 779(396)	← 779(396)	← 779(396)
← 751(376)				
← 21(30)				
77(117) ↳				
22(23) →				
28(20) ↳				
42(58) ↱	→ 325(847)	→ 325(847)	→ 325(847)	
284(790) →				
3,000 / 15,700	15,700	15,700	15,700	15,400

11 Euclid Av. (SR-83) & Edison Av.	12 Euclid Av. (SR-83) & Eucalyptus Av.	13 Euclid Av. (SR-83) & Merrill Av.	14 Euclid Av. (SR-83) & Kimball Av.	15 Driveway 5 & Schaefer Av.
15,400 / 6,700	14,700 / 3,900	10,850 / 12,800	11,450 / 3,200	550
← 623(326)	← 489(291)	← 181(189)	↰ 11(26)	← 21(30)
↳ 156(70)	↳ 232(86)	↳ 284(98)	← 232(548)	
↰ 52(180)	↱ 63(259)	↱ 78(278)	↳ 45(23)	
← 66(266)	← 7(24)		↱ 20(47)	
↰ 4(4)		↰ 106(407)	← 35(57)	
			↰ 14(37)	
238(93) →	20(8) →		22(12) →	22(23) →
94(47) ↳	18(12) ↳		46(42) →	
35(109) ↱	9(22) ↱	168(222) →	12(40) ↳	
273(667) →	248(524) →	383(142) ↱	35(24) ↱	
3(6) ↱			510(306) →	
			38(17) ↱	
5,700 / 14,700	700 / 11,500	11,850	2,600 / 11,600	550

##(##) AM(PM) Peak Hour Intersection Volumes
Average Daily Trips

EXHIBIT 4-14: CUMULATIVE ONLY TRAFFIC VOLUMES (PAGE 2 OF 2)



##(##) AM(PM) Peak Hour Intersection Volumes

***Average Daily Trips***

TABLE 4-4: CUMULATIVE DEVELOPMENT LAND USE SUMMARY (1 OF 4)

#	Project/Location	Land Use	Quantity	Units[1]
City of Ontario				
O1	Ontario Ranch Business Park	Business Park	227.951	TSF
		High-Cube Fulfillment Center Warehouse	913.053	TSF
		High-Cube Cold Storage Warehouse	179.135	TSF
		Warehouse	320.551	TSF
O2	Subarea 29 & Amendment (75% complete)	Single Family Detached	716	DU
		Shopping Center	87.000	TSF
O3	Ontario Ranch Commerce Center	High-Cube Fulfillment Warehouse	1,447.123	TSF
		Business Park	457.904	TSF
O4	South Ontario Logistics Center	Business Park	1,075.235	TSF
		High-Cube Fulfillment Warehouse	2,819.282	TSF
		High-Cube Cold Storage Warehouse	563.857	TSF
		Warehousing	954.218	TSF
O5	Parkside Specific Plan	Single Family Detached	804	DU
		Multifamily Housing (Low-Rise)	2,046	DU
		Park	58.860	AC
O6	Merrill Commerce Center	High-Cube Fulfillment Warehouse	7014.000	TSF
		Business Park	1441.000	TSF
O7	Parente Home Ranch SP	Single Family Detached	270	DU
		Condo/Townhouse	1,872	DU
		General Office	462.281	TSF
		Shopping Center	194.278	TSF
O8	Countryside	Single Family Detached	819	DU
	Armstrong Ranch	Single Family Detached	994	DU
O9	The Avenue (50% Complete)	Single Family Detached	2,020	DU
		Multi-Family Attached (Apartments)	586	DU
		Shopping Center	250.000	TSF
O10	Grand Park (80% Complete)	Single Family Detached	484	DU
		Multi-Family Attached (Apartments)	843	DU
O11	West Haven	Single Family Detached	149	DU
		Multifamily Housing	654	DU
		Elementary School	650	STU
		Shopping Center	87.000	TSF
O12	Haven Gateway	General Light Industrial	42.160	TSF
		High-Cube Warehouse	168.640	TSF
O13	PDEV10-008 - Dry Food Storage	Mini-Warehouse	17.000	TSF
O14	Esperanza (50% Complete)	Single Family Detached	914	DU
		Multi-Family Attached (Apartments)	496	DU
O15	Edenglen (50% Complete)	Single Family Detached	310	DU
		Multi-Family Attached (Condo)	274	DU
		Shopping Center	217.520	TSF
		Business Park	550.000	TSF
O17	Tuscana Village	Single Family Detached	176	DU
		Shopping Center	26.000	TSF
City of Chino				
C1	Bickmore Street Residential (TM 18858) (30% complete)	Single Family Detached	185	DU
C2	TM17574 (80% complete)	Condo/Townhouse	108	DU
C3	Pines Community	Single Family Detached	552	DU
		Public Park	3.0	AC
		Self Storage & RV Storage	120.000	TSF
		Sports Park	41.8	AC
C4	Tract 19980 (Homecoming Phase 4)	Apartments	454	DU
	TTM No. 20166 & 20167	Single Family Detached	148	DU
	Brio & TTM No. 21065 & 20168 (Orchards)	Single Family Detached	239	DU

TABLE 4-4: CUMULATIVE DEVELOPMENT LAND USE SUMMARY (2 OF 4)

C5 Farmer Boys	Fast-food w/ Drive-Thru	3.218	TSF
	Shopping Center	2.300	TSF
C6 Euclid & Bickmore Warehouse	Warehousing	205.820	TSF
	General Light Industrial	51.030	TSF
	Business Park	110.620	TSF
C7 Kimball Business Park	Business Park	146.550	TSF
C8 Falloncrest at the Preserve	Multifamily Housing (Low-Rise)	698	DU
	Multifamily Housing (Mid-Rise)	440	DU
	Public Parks	21.60	AC
	General Office	77.597	TSF
	Commercial Retail	77.597	TSF
C9 Chino Parcel Delivery	Parcel Delivery Facility	765.274	TSF
C10 Altitude Business Centre	Warehousing	715.000	TSF
	Light Industrial	255.000	TSF
	Business Park	233.000	TSF
	Self-Storage	110.000	TSF
C11 Majestic Gateway	Specialty Retail	25.000	TSF
	Pharmacy/Drugstore with Drive-Thru	13.000	TSF
	Fast-Food with Drive-Thru	8.600	TSF
C12 Bouma Residential	Single Family Detached	106	DU
	Condo/Townhouse	94	DU
C13 Fairfield Inn & Suites (PL 17-0060 & PL 17-0061)	Hotel	111	RM
C14 Watson Industrial Park (40% complete)	High-Cube Warehouse	3,889.900	TSF
C15 Chino Business Park	General Light Industrial	165.500	TSF
	Business Park	21.500	TSF
C16 Flores Site	Shopping Center	4.000	TSF
	Gas Station w/ convenience store	16	VFP
	Express Car Wash	5.000	TSF
C17 The Campus at College Park	Church	27.000	TSF
	General Office	16.969	TSF
	Commercial Retail/Restaurants	33.661	TSF
C18 Archibald's (PL 17-0037)	Fast-Food with Drive-Thru	3.147	TSF
C19 TM 18972 (80% complete)	Single Family Detached	147	DU
C20 Rancho Miramonte	Single Family Detached	691	DU
	Condo/Townhouse	132	DU
	Neighborhood Retail	21.780	TSF
	Church	400	SEAT
C21 Majestic Chino Heritage	High-Cube Fulfillment Warehouse	1982.700	TSF
	High-Cube Cold Storage Warehouse	100.000	TSF
C22 Church	Church	47.979	TSF
	Daycare	190	STU
C23 Appesetche Residential	Single Family Detached	60	DU
	Condo/Townhouse	160	DU
C24 Tract 19951, 19952, 19953, 19935 & 18479	Single Family Detached	151	DU
	Condo/Townhouse	150	DU
C25 Ag. Buffer, Bungalow, Lic. Product, Liberty Deluxe, Lyon 2 & 3	Single Family Detached	474	DU

TABLE 4-4: CUMULATIVE DEVELOPMENT LAND USE SUMMARY (3 OF 4)

C26 The Preserve Town Center (Blocks 6 and 7)	Multifamily Housing	549	DU
	Office	16.300	TSF
	Shopping Center	36.800	TSF
	Pharmacy with Drive-Thru	12.900	TSF
	Supermarket	45.000	TSF
	Fast-Food Restaurant with Drive-Thru	6.500	TSF
	Fast Casual Restaurant	13.750	TSF
	Quality Restaurant	13.750	TSF
C27 The Preserve Civic Center	Elementary School	1,200	STU
	Library	10.00	AC
	Community Center	10.00	AC
	Park	8.00	AC
C28 Euclid & Schaefer Shopping	Commercial Retail + Gas + Car wash	74.756	TSF
City of Eastvale			
E1 The Merge	Warehousing	336.501	TSF
	Shopping Center	4.750	TSF
	Supermarket	30.000	TSF
	Gas Station w/ convenience store	16	VFP
	Pharmacy/Drugstore with Drive-Thru	14.600	TSF
	Fast-Food with Drive-Thru	6.000	TSF
	Automated Car Wash	4.000	TSF
	Fast-Food Without Drive-Thru	7.750	TSF
	Coffee/Donut Shop With Drive-Thru	2.500	TSF
E2 TR29997	Single Family Detached	122	DU
E3 13-0632 - Sumner Residential (Stratham Homes)	Single Family Detached	129	DU
E4 TR35751	Condo/Townhouse	243	DU
E5 PP23219 (PM35865) (50% complete)	General Light Industrial	738.430	TSF
E6 Eastvale Shopping Center	Free-Standing Discount Superstore	192.000	TSF
	Specialty Retail	9.200	TSF
	Fast-Food Without Drive-Thru	7.200	TSF
	Coffee/Donut Shop w/ Drive Thru	2.000	TSF
	Fast-Food with Drive-Thru	3.500	TSF
	Gas Station w/ convenience store & car wash	16	VFP
E7 Van Leeuwen	Single Family Detached	224	DU
E8 SP00358 - The Ranch at Eastvale	Shopping Center	267.200	TSF
	General Light Industrial	801.500	TSF
	Business Park	1,121.100	TSF
E9 SC Limonite, LLC	Single Family Detached	330	TSF
E10 Leal Master Plan	Lifestyle Center (Commercial)	1,300.000	TSF
	General Commercial	225.000	TSF
	Office	920.000	TSF
	Hotel	450	RM
	High Density Residential	500-660	DU
E11 Eastvale Commerce Center	Shopping Center	650.000	TSF
E12 S. Milliken Warehouse	High-Cube Warehouse	280.000	TSF
E13 15-1508 - Industrial Warehouse	Warehousing	155.000	TSF

TABLE 4-4: CUMULATIVE DEVELOPMENT LAND USE SUMMARY (4 OF 4)

City of Chino Hills			
CH1 Vila Borba Specific Plan (TR 16414)	Single Family Detached	172	DU
CH2 Country Club Villas	Condo/Townhouse	46	DU
CH3 The Goddard School	Daycare	10.587	TSF
CH4 Heritage Professional Center	Hospital	55.000	TSF
	Medical Office Building	86.952	TSF
	Hotel	120	RM
	Shopping Center	38.848	TSF
	Restaurant	7.200	TSF

[1] TSF = Thousand Square Feet; DU = Dwelling Unit; VFP = Vehicle Fueling Position ; AC = Acres; RM = Rooms

4.8 HORIZON YEAR (2050) VOLUME DEVELOPMENT

Traffic projections for Horizon Year (2050) without Project conditions were derived from the SBTAM using accepted procedures for model forecast refinement and smoothing for study area intersections located within the County of San Bernardino and are based on the City on Ontario TOP 2050 currently approved General Plan forecasts. The traffic forecasts reflect the area-wide growth anticipated between Existing (2022) conditions and Horizon Year (2050) traffic conditions. In most instances the traffic model zone structure is not designed to provide accurate turning movements along arterial roadways unless refinement and reasonableness checking is performed. Therefore, the Horizon Year (2050) peak hour forecasts were refined using the model derived long range forecasts, base (validation) year model forecasts, along with existing peak hour traffic count data collected at each analysis location in 2022. The SBTAM has a base (validation) year of 2016 and a horizon (future forecast) year of 2050. The difference in model volumes (2050-2016) defines the growth in traffic over the 32-year period.

The refined future peak hour approach and departure volumes obtained from the model output data are then entered into a spreadsheet program consistent with the National Cooperative Highway Research Program (NCHRP Report 765), along with initial estimates of turning movement proportions. A linear programming algorithm is used to calculate individual turning movements which match the known directional roadway segment forecast volumes computed in the previous step. This program computes a likely set of intersection turning movements from intersection approach counts and the initial turning proportions from each approach leg.

The SBTAM uses an AM peak period-to-peak hour factor of 0.35 and a PM peak period-to-peak hour factor of 0.27. These factors represent the relationship of the highest single AM peak hour to the modeled 3-hour AM peak period (an even distribution would result in a factor of 0.33) and the highest single PM peak hour to the modeled 4-hour PM peak period (an even distribution would result in a factor of 0.25).

Typically, the model growth is prorated and is subsequently added to the existing (base validation) traffic volumes to represent Horizon Year traffic conditions. In an effort to conduct a conservative analysis, reductions to traffic forecasts from either Existing or Opening Year Cumulative traffic conditions were not assumed as part of this analysis. As such, in conjunction with the addition of cumulative projects that are not consistent with the General Plan, additional growth has also been

applied on a movement-by-movement basis, where applicable, to estimate reasonable Horizon Year (2050) forecasts. Horizon Year (2050) turning volumes were compared to Opening Year Cumulative (2027) volumes in order to ensure a minimum growth as a part of the refinement process. The minimum growth includes any additional growth between Opening Year Cumulative (2027) and Horizon Year (2050) traffic conditions that is not accounted for by the traffic generated by cumulative development projects and ambient growth rates assumed between Existing (2022) and Opening Year Cumulative (2027) conditions. Adjustments have not been made to study area intersections that may be affected by new future roadway connections (such as the extension of Pine Avenue or the extension of Kimball Avenue/Limonite Avenue), where travel patterns would likely get affected and forecasts may potentially decrease from the Opening Year Cumulative conditions. Future estimated peak hour traffic data was used for new intersections and intersections with an anticipated change in travel patterns to further refine the Horizon Year (2050) peak hour forecasts.

The future Horizon Year (2050) Without Project peak hour turning movements were then reviewed by Urban Crossroads, Inc. for reasonableness, and in some cases, were adjusted to achieve flow conservation, reasonable growth, and reasonable diversion between parallel routes. Flow conservation checks ensure that traffic flow between two closely spaced intersections, such as two adjacent driveway locations, is verified in order to make certain that vehicles leaving one intersection are entering the adjacent intersection and that there is no unexplained loss of vehicles. The result of this traffic forecasting procedure is a series of traffic volumes which are suitable for traffic operations analysis.

The SBTAM does not include a truck component or have data that is unusually low. As such, in an effort to conduct a conservative analysis, the presence of trucks has been accounted for based on the manual volume adjustments made to demonstrate growth above Opening Year Cumulative (2027) traffic forecasts, which are presented and evaluated in PCE (see Section 3.5 *Existing (2022) Traffic Counts* for discussion on PCE). As such, the Horizon Year (2050) forecasts are also assumed to be in PCE for the purposes of this analysis. Post-processing worksheets for Horizon Year (2050) without Project traffic conditions are provided in Appendix 4.1.

5 E+P TRAFFIC CONDITIONS

This section discusses the traffic forecasts for E+P conditions and the resulting intersection operations, traffic signal warrant, and off-ramp queuing analyses.

5.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for E+P conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for E+P conditions only (e.g., intersection and roadway improvements at the Project's frontage and driveways).

5.2 E+P GROWTH TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus the addition of Project, with Future Development, traffic. The weekday ADT and weekday AM and PM peak hour volumes, in actual vehicles, which can be expected for E+P traffic conditions are shown on Exhibit 5-1.

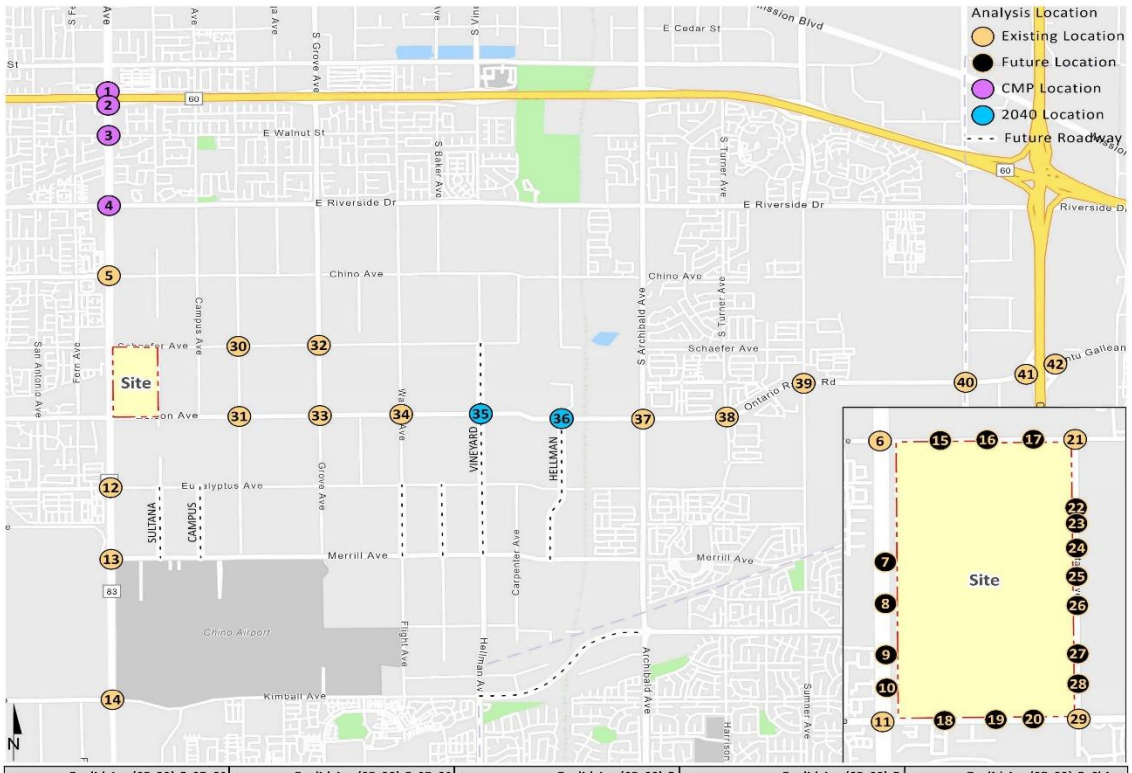
5.3 INTERSECTION OPERATIONS ANALYSIS

E+P peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2 *Methodologies* of this TA. The intersection analysis results are summarized in Table 5-1 for E+P traffic conditions, which indicates that the following additional study area intersections are anticipated to operate at an unacceptable LOS during the peak hours under E+P traffic conditions, in addition to the intersection identified under Existing (2022) traffic conditions:

- Driveway 9 & Edison Avenue (#19) – LOS F AM peak hour only
- Bon View Avenue & Edison Avenue (#31) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#34) – LOS F AM and PM peak hours

The intersection operations analysis worksheets for E+P traffic conditions are included in Appendices 5.1.

EXHIBIT 5-1: E+P TRAFFIC VOLUMES (PAGE 1 OF 2)



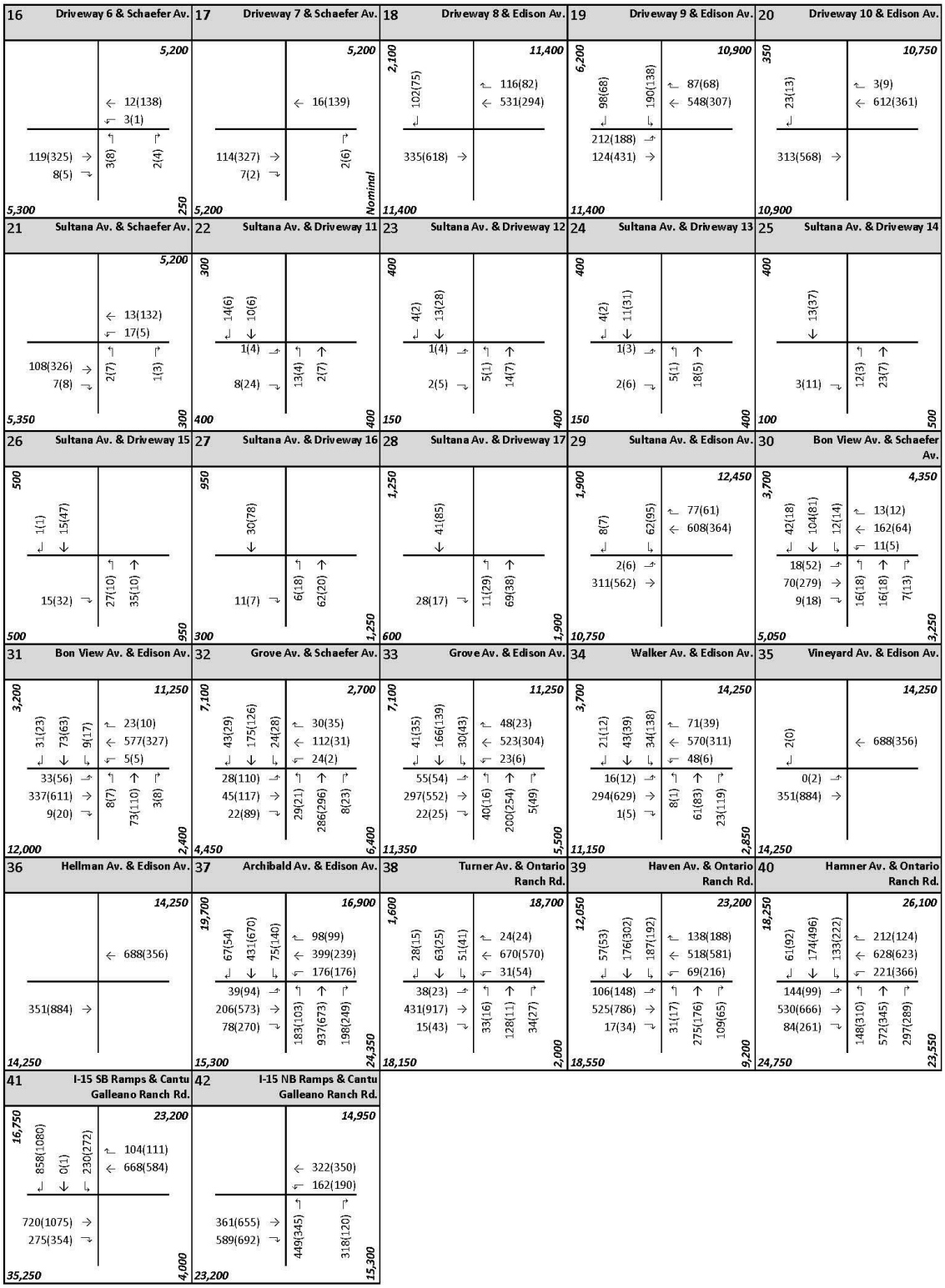
1	Euclid Av. (SR-83) & SR-60 WB Ramps			2	Euclid Av. (SR-83) & SR-60 EB Ramps			3	Euclid Av. (SR-83) & Walnut Av.			4	Euclid Av. (SR-83) & Riverside Dr.			5	Euclid Av. (SR-83) & Chino Av.		
27,400		9,400		27,450		7,950		26,500		13,750		21,750		14,550		21,150		10,000	
↲ 320(424)	↑ 362(337)			↓ 872(976)				↲ 56(116)	↑ 153(138)			↲ 111(151)	↑ 88(66)			↲ 80(62)	↑ 69(44)		
↓ 848(829)	← 4(6)			↳ 355(329)				↓ 875(833)	← 365(218)			↓ 774(691)	← 451(369)			↓ 856(752)	← 272(119)		
	↰ 378(476)							↳ 174(250)	↰ 90(63)			↳ 216(99)	↰ 195(133)			↳ 52(52)	↰ 89(72)		
	↰	→	↱		↳				↰	→	↱		↰	→	↱		↰	→	↱
	250(274) ↳	806(819) →			374(259) ↳				95(114) ↳	241(469) →	117(152) ↲		151(126) ↳	319(463) →	55(54) ↲		62(72) ↳	172(407) →	51(45) ↲
					0(3) →	683(834) →	485(361) ↱												
					345(234) ↲				96(108) ↰	895(852) ↑	30(69) ↱		40(48) ↰	618(755) ↑	81(148) ↱		38(32) ↰	636(849) ↑	99(184) ↱
8,100		27,450		5,700		27,650		13,400		33,300		13,800		21,100		8,400		22,300	

6	Euclid Av. (SR-83) & Schaefer Av.			7	Euclid Av. (SR-83) & Driveway 1			8	Euclid Av. (SR-83) & Driveway 2			9	Euclid Av. (SR-83) & Driveway 3			10	Euclid Av. (SR-83) & Driveway 4		
22,050		5,300		17,950		150		17,950		400		17,950		450		17,950		1,250	
↲ 125(102)	↑ 9(40)			↓ 879(901)				↓ 879(901)	↑ 10(34)			↓ 879(901)	↑ 9(28)			↓ 879(901)	← 61(45)		
↓ 847(757)	← 4(72)				↑ 3(9)														
↳ 54(43)	↰ 3(35)																↱		
	↰	→	↱		→	↱			→	↱			→	↱					
142(224) ↳																	69(48)		
56(254) →	80(108)	646(745)	22(28)		623(695)	9(3)			622(665)	35(12)			648(648)	28(11)					
78(130) ↲																			
9,750		20,450				17,950				17,950				17,950				17,950	

11	Euclid Av. (SR-83) & Edison Av.			12	Euclid Av. (SR-83) & Eucalyptus Av.			13	Euclid Av. (SR-83) & Merrill Av.			14	Euclid Av. (SR-83) & Kimball Av.			15	Driveway 5 & Schaefer Av.		
20,300		11,450		22,100		2,450		26,950		6,500		21,700		22,700				5,350	
↲ 128(121)	↑ 154(108)			↲ 29(57)	↑ 20(8)			↲ 51(8)	↑ 115(138)			↲ 303(147)	↑ 294(149)				← 16(147)		
↓ 591(619)	← 367(195)			↓ 734(982)	← 141(21)			↓ 746(969)	← 49(0)			↓ 457(437)	← 932(355)						
↳ 160(161)	↰ 111(66)			↳ 19(36)	↰ 23(5)			↳ 134(186)	↰ 173(100)			↳ 146(475)	↰ 82(45)						
	↰	→	↱		↰	→	↱		↰	→	↱		↰	→	↱			→	↱
102(163) ↳				52(41) ↳				6(3) ↳				92(270) ↳							
144(406) →	100(72)	562(602)	41(54)	39(127) →	140(83)	591(805)	11(17)	4(18) →	12(1)	680(764)	76(127)	226(806) →	35(59)	385(416)	26(160)	126(324) →		2(6)	
71(128) ↲				129(176) ↲				3(8) ↲				26(28) ↲				7(2) ↲			
12,300		24,350		5,750		26,950		450		22,550		18,950		13,100		5,350		Nominal	

##(##) AM(PM) Peak Hour Intersection Volumes
Average Daily Trips

EXHIBIT 5-1: E+P TRAFFIC VOLUMES (PAGE 2 OF 2)



##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

TABLE 5-1: INTERSECTION ANALYSIS FOR E+P CONDITIONS

#	Intersection	Traffic Control[2]	Existing (2022) Delay[1] (secs.) AM	Existing (2022) Delay[1] (secs.) PM	Existing (2022) Level of Service AM	Existing (2022) Level of Service PM	E+P Delay[1] (secs.) AM	E+P Delay[1] (secs.) PM	E+P Level of Service AM	E+P Level of Service PM	Acceptable LOS
1	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	27.1	18.1	C	B	29.0	20.0	C	C	D
2	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	29.7	16.8	C	B	31.3	18.2	C	B	D
3	Euclid Av. (SR-83) & Walnut Av.	TS	29.0	23.9	C	C	29.3	24.9	C	C	D
4	Euclid Av. (SR-83) & Riverside Dr.	TS	41.9	36.5	D	D	48.0	42.5	D	D	E
5	Euclid Av. (SR-83) & Chino Av.	TS	33.5	28.8	C	C	35.2	30.0	D	C	E
6	Euclid Av. (SR-83) & Schaefer Av.	TS	16.0	21.0	B	C	18.0	27.0	B	C	E
7	Euclid Av. (SR-83) & Driveway 1	CSS	Future Intersection				11.2	11.6	B	B	E
8	Euclid Av. (SR-83) & Driveway 2	CSS	Future Intersection				11.4	11.9	B	B	E
9	Euclid Av. (SR-83) & Driveway 3	CSS	Future Intersection				11.5	11.7	B	B	E
10	Euclid Av. (SR-83) & Driveway 4	CSS	Future Intersection				12.3	11.9	B	B	E
11	Euclid Av. (SR-83) & Edison Av.	TS	27.3	20.3	C	C	43.4	28.5	D	C	E
12	Euclid Av. (SR-83) & Eucalyptus Av.	TS	13.8	10.8	B	B	14.2	11.0	B	B	E
13	Euclid Av. (SR-83) & Merrill Av.	TS	21.9	17.2	C	B	22.9	17.7	C	B	E
14	Euclid Av. (SR-83) & Kimball Av.	TS	30.0	41.4	C	D	30.9	43.8	C	D	E
15	Driveway 5 & Schaefer Av.	CSS	Future Intersection				9.2	10.7	A	B	E
16	Driveway 6 & Schaefer Av.	CSS	Future Intersection				9.5	11.5	A	B	E
17	Driveway 7 & Schaefer Av.	CSS	Future Intersection				9.1	10.7	A	B	E
18	Driveway 8 & Edison Av.	CSS	Future Intersection				17.3	11.2	C	B	E
19	Driveway 9 & Edison Av.	CSS	Future Intersection				**>100.0**	35.6	**F**	E	E
20	Driveway 10 & Edison Av.	CSS	Future Intersection				14.9	10.8	B	B	E
21	Sultana Av. & Schaefer Av.	CSS	Future Intersection				9.5	11.4	A	B	E
22	Sultana Av. & Driveway 11	CSS	Future Intersection				8.6	8.6	A	A	E
23	Sultana Av. & Driveway 12	CSS	Future Intersection				8.7	8.8	A	A	E
24	Sultana Av. & Driveway 13	CSS	Future Intersection				8.6	8.7	A	A	E
25	Sultana Av. & Driveway 14	CSS	Future Intersection				8.4	8.6	A	A	E
26	Sultana Av. & Driveway 15	CSS	Future Intersection				8.5	8.7	A	A	E
27	Sultana Av. & Driveway 16	CSS	Future Intersection				8.5	8.8	A	A	E
28	Sultana Av. & Driveway 17	CSS	Future Intersection				8.6	8.9	A	A	E
29	Sultana Av. & Edison Av.	CSS	Future Intersection				19.0	19.0	C	C	E
30	Bon View Av. & Schaefer Av.	AWS	11.5	13.8	B	B	11.9	14.6	B	B	E
31	Bon View Av. & Edison Av.	AWS	21.2	28.6	C	D	**>100.0**	**>100.0**	**F**	**F**	E
32	Grove Av. & Schaefer Av.	AWS	16.3	19.2	C	C	17.8	21.6	C	C	E
33	Grove Av. & Edison Av.	AWS	39.0	**52.1**	E	**F**	**>100.0**	**>100.0**	**F**	**F**	E
34	Walker Av. & Edison Av.	AWS	29.2	49.8	D	E	**>100.0**	**>100.0**	**F**	**F**	E
35	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				E
36	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				E
37	Archibald Av. & Edison Av.	TS	25.0	25.0	C	C	35.1	27.5	D	C	E
38	Turner Av. & Ontario Ranch Rd.	TS	14.7	12.0	B	B	15.2	12.1	B	B	E
39	Haven Av. & Ontario Ranch Rd.	TS	21.4	22.3	C	C	22.2	23.0	C	C	E
40	Hamner Av. & Ontario Ranch Rd.	TS	20.7	24.2	C	C	21.6	25.1	C	C	D
41	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	9.2	12.3	A	B	9.8	13.0	A	B	D
42	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	13.3	11.7	B	B	13.9	12.4	B	B	D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

1 Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds.

2 TS = Traffic Signal; AWS = All-way Stop; CSS = Cross-street Stop

5.4 TRAFFIC SIGNAL WARRANTS ANALYSIS

The traffic signal warrant analysis for E+P traffic conditions is based on the peak hour volumes or planning level ADT volume-based traffic signal warrants. The following unsignalized study area intersections of are anticipated to meet a traffic signal warrant under E+P traffic conditions (see Appendix 5.2):

- Sultana Avenue & Edison Avenue (#29)
- Bon View Avenue & Schaefer Avenue (#30)

5.5 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for E+P are presented in Table 5-2. As shown in Table 5-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows, consistent with Existing (2022) traffic conditions. Worksheets for E+P traffic conditions queuing analysis are provided in Appendix 5.3.

TABLE 5-2: PEAK HOUR OFF-RAMP QUEUING SUMMARY FOR E+P CONDITIONS

			Existing (2022)				E+P (Phase 1)			
		Available Stacking Distance	95th Percentile Queue (Feet)		Acceptable? [1]		95th Percentile Queue (Feet)		Acceptable? [1]	
Intersection	Movement	(Feet)	AM Peak	PM Peak	AM	PM	AM Peak	PM Peak	AM	PM
Euclid Av. & SR-60 WB Ramps	WBL	350	376 [3]	370 [3]	Yes	Yes	388 [3]	374 [3]	Yes	Yes
	WBL/T/R	1,415	379	381	Yes	Yes	423 [2]	402 [2]	Yes	Yes
	WBR	350	209	175	Yes	Yes	226	194	Yes	Yes
Euclid Av. & SR-60 EB Ramps	EBL	900	382	274	Yes	Yes	382	274	Yes	Yes
	EBL/R	1,290	472 [2]	234	Yes	Yes	569 [2]	296	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,435	127	156	Yes	Yes	142	156	Yes	Yes
	SBL/R	550	319	469	Yes	Yes	392	502	Yes	Yes
	SBR	455	289	423	Yes	Yes	356	451	Yes	Yes
I-15 NB Ramps & Cantu Galleano Ranch Rd.	NBL	1,615	149	125	Yes	Yes	164	151	Yes	Yes
	NBL/R	585	52	48	Yes	Yes	56	51	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60 and I-15 Freeway mainline.

5.6 PROJECT DEFICIENCIES AND RECOMMENDED IMPROVEMENTS

Improvements needed to achieve acceptable LOS have been identified at intersections or off-ramps that are anticipated to operate at a deficient LOS under E+P traffic conditions.

5.6.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

Improvement strategies have been recommended at intersections that have been identified as deficient under E+P traffic conditions in an effort to achieve an acceptable LOS. The effectiveness of the recommended improvement strategies to address E+P traffic deficiencies are presented in Table

5-3. The intersection operations analysis worksheets for E+P conditions, with improvements, are included in Appendix 5.4.

5.6.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES

As shown in Table 5-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows for E+P traffic conditions. As such, no improvements have been identified.

TABLE 5-3: E+P CONDITIONS INTERSECTION OPERATIONS ANALYSIS WITH IMPROVEMENTS

	Traffic	Intersection Approach Lanes[1]												Delay[2] (secs.)		Level of Service		Acceptable
		Northbound			Southbound			Eastbound			Westbound							
	Control[3]	L	T	R	L	T	R	L	T	R	L	T	R	AM	PM	AM	PM	LOS
19 Driveway 9 & Edison Av.																		
Without Improvements:	CSS	0	0	0	0	1	0	1	1	0	0	1	0	**>100.0**	35.6	**F**	E	E
With Improvements:	**TS**	0	0	0	0	1	0	1	1	0	0	1	0	14.4	7.2.	B	A	
31 Bon View Av. & Edison Av.																		
Without Improvements:	AWS	0	1	0	0	1	0	0	1	0	0	1	0	**>100.0**	**>100.0**	**F**	**F**	E
With Improvements:	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	6.8	7.0	A	A	
33 Grove Av. & Edison Av.																		
Without Improvements:	AWS	0	1	0	0	1	0	0	1	0	0	1	0	**>100.0**	**>100.0**	**F**	**F**	E
With Improvements:	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	9.8	11.7	A	B	
34 Walker Av. & Edison Av.																		
Without Improvements:	AWS	0	1	0	0	1	0	0	1	0	0	1	0	**>100.0**	**>100.0**	**F**	**F**	E
With Improvements:	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	7.5	8.8	A	A	

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; **1** = Improvement

[2] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[3] TS = Traffic Signal; **TS** = Traffic Signal

It should be noted, the traffic signal improvement at the intersection of Driveway 9 & Edison Avenue (#19) will be installed by the future phases of PA 3A and 3B.

6 OPENING YEAR CUMULATIVE (2027) TRAFFIC CONDITIONS

This section discusses the traffic forecasts for Opening Year Cumulative (2027) conditions and the resulting intersection operations, traffic signal warrant, and off-ramp queuing analyses.

6.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Opening Year Cumulative (2027) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Opening Year Cumulative (2027) conditions (e.g., intersection and roadway improvements at the Project's frontage and driveways).

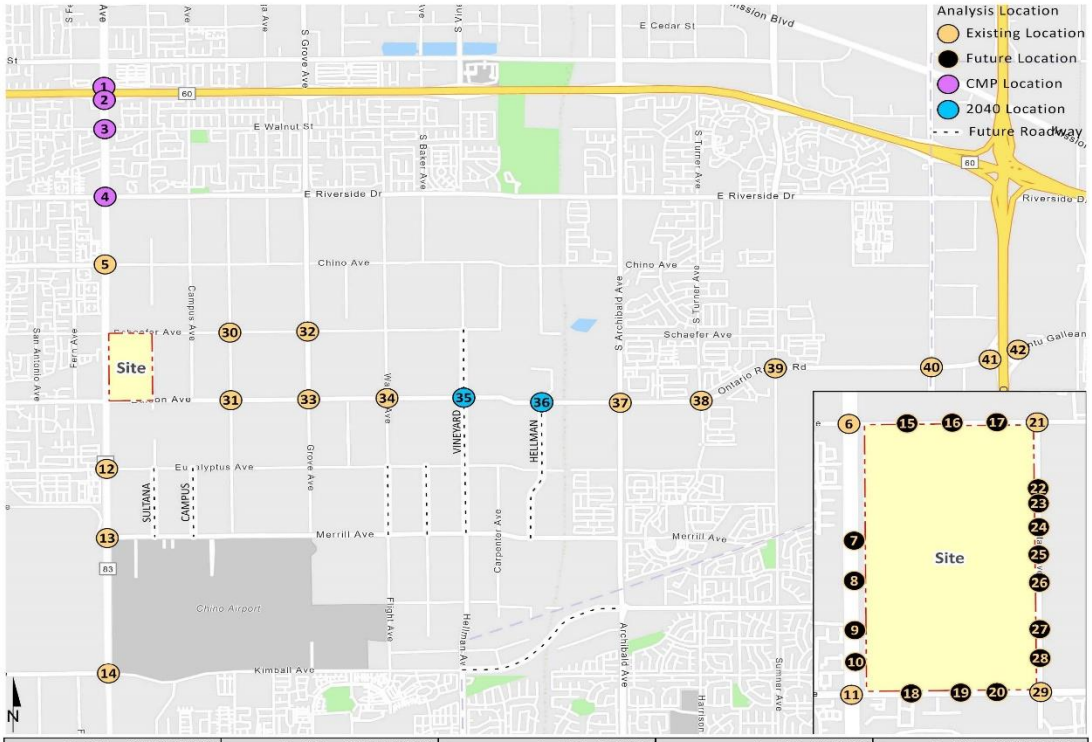
6.2 OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT GROWTH TRAFFIC VOLUME FORECASTS

This scenario includes Existing traffic volumes plus an ambient growth factor of 10.4% plus traffic from pending and approved but not yet constructed known development projects in the area. The weekday ADT and weekday AM and PM peak hour volumes, in actual vehicles, which can be expected for Opening Year Cumulative (2027) Without Project traffic conditions are shown on Exhibit 6-1.

6.3 OPENING YEAR CUMULATIVE (2027) WITH PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes Opening Year Cumulative (2027) Without Project traffic in conjunction with the addition of Project, without Future Development, traffic. The weekday ADT and weekday AM and PM peak hour volumes, in actual vehicles, which can be expected for Opening Year Cumulative (2027) With Project traffic conditions are shown on Exhibit 6-2.

EXHIBIT 6-1: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT TRAFFIC VOLUMES (PAGE 1 OF 2)



1 Euclid Av. (SR-83) & SR-60 WB Ramps			2 Euclid Av. (SR-83) & SR-60 EB Ramps			3 Euclid Av. (SR-83) & Walnut Av.			4 Euclid Av. (SR-83) & Riverside Dr.			5 Euclid Av. (SR-83) & Chino Av.		
30,800		11,500	36,300		9,950	40,750		15,400	36,100		16,500	37,000		11,350
↳ 353(468)	↑ 400(372)		↳ 1103(1151)	↑		↳ 62(128)	↑ 169(152)		↳ 123(167)	↑ 97(73)		↳ 88(68)	↑ 76(49)	
↓ 962(928)	← 4(7)		↓	←		↓ 1533(1191)	← 403(241)		↓ 1448(1056)	← 498(407)		↓ 1622(1169)	← 300(131)	
	↰ 532(587)		↰ 392(363)	↰		↰ 192(276)	↰ 109(81)		↰ 238(109)	↰ 233(168)		↰ 57(57)	↰ 113(94)	
	↰ ↑ ↱			↰ ↑ ↱			↰ ↑ ↱			↰ ↑ ↱			↰ ↑ ↱	
	424(758) 898(941)		413(286) ↳			105(126) ↳			167(139) ↳			68(79) ↳		
			0(3) →			266(518) →			352(511) →			190(449) →		
			809(454) ↲	908(1411) 575(531)		146(179) ↲	110(143) 1184(1562) 39(89)		127(85) ↲	60(135) 887(1493) 103(185)		73(56) ↲	45(61) 937(1698) 119(219)	
13,300		36,300	10,600		42,000	15,150		48,850	16,350		36,950	9,600		38,950

6 Euclid Av. (SR-83) & Schaefer Av.			7 Euclid Av. (SR-83) & Driveway 1			8 Euclid Av. (SR-83) & Driveway 2			9 Euclid Av. (SR-83) & Driveway 3			10 Euclid Av. (SR-83) & Driveway 4		
38,050		5,950	32,450			32,450			32,450			32,450		300
↳ 169(146)	↑ 6(33)		↓ 1617(1240)			↓ 1617(1240)			↓ 1617(1240)			↓ 1617(1240)		
↓ 1578(1120)	← 24(104)													
↰ 34(32)	↰ 2(38)													
↰ ↑ ↱				↰ ↑ ↱			↰ ↑ ↱			↰ ↑ ↱			↰ ↑ ↱	
234(364) ↳														
78(302) →														
104(156) ↲	107(121) 886(1520) 24(31)			881(1475)			881(1475)			881(1475)				
13,250		35,500			32,450			32,450			32,450			32,150

11 Euclid Av. (SR-83) & Edison Av.			12 Euclid Av. (SR-83) & Eucalyptus Av.			13 Euclid Av. (SR-83) & Merrill Av.			14 Euclid Av. (SR-83) & Kimball Av.			15 Driveway 5 & Schaefer Av.		
34,800		15,800	37,500		6,600	39,350		19,950	34,100		28,000			5,950
↳ 137(116)	↑ 116(240)		↳ 32(52)	↑ 85(268)		↳ 56(9)	↑ 205(430)		↳ 326(170)	↑ 329(200)				
↓ 1270(993)	← 454(470)		↓ 1299(1324)	← 157(47)		↓ 948(1208)	← 54(0)		↓ 714(1007)	← 1064(449)			← 32(175)	
↰ 210(131)	↰ 61(33)		↰ 253(126)	↰ 25(6)		↰ 432(303)	↰ 297(517)		↰ 192(539)	↰ 105(87)				
↰ ↑ ↱			↰ ↑ ↱			↰ ↑ ↱			↰ ↑ ↱					
94(174) ↳			57(33) ↳			7(3) ↳			99(292) ↳					
380(526) →			41(148) →			4(20) →			296(932) →					
172(188) ↲	145(188) 829(1295) 27(39)		154(206) ↲	164(114) 901(1362) 10(19)		3(9) ↲	13(1) 851(1015) 467(282)		41(71) ↲	74(89) 907(744) 67(194)		137(365) →		
18,800		40,000	6,800		39,950	500		35,450	23,100		25,500	5,950		

##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

EXHIBIT 6-1: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT TRAFFIC VOLUMES (PAGE 2 OF 2)

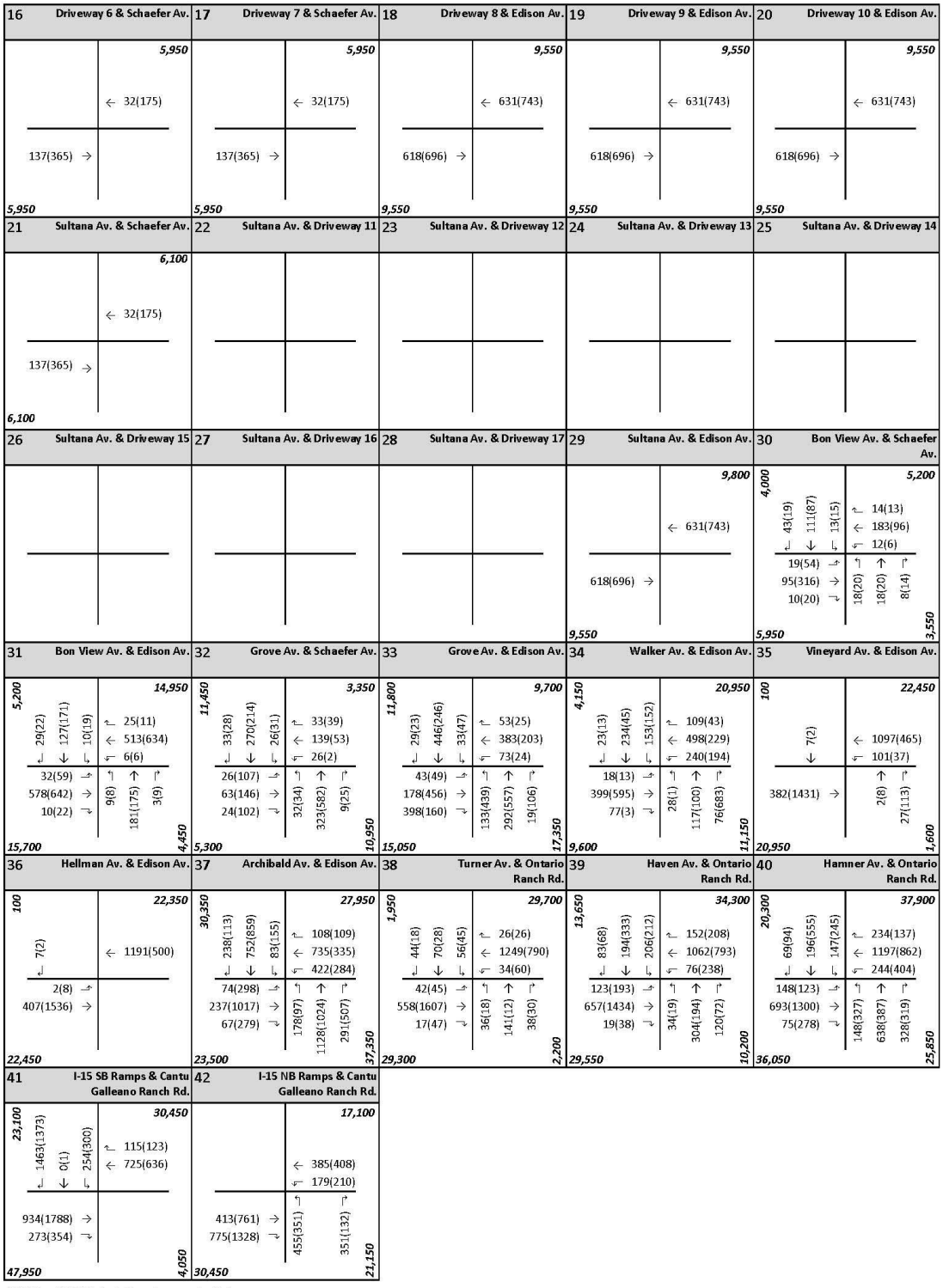
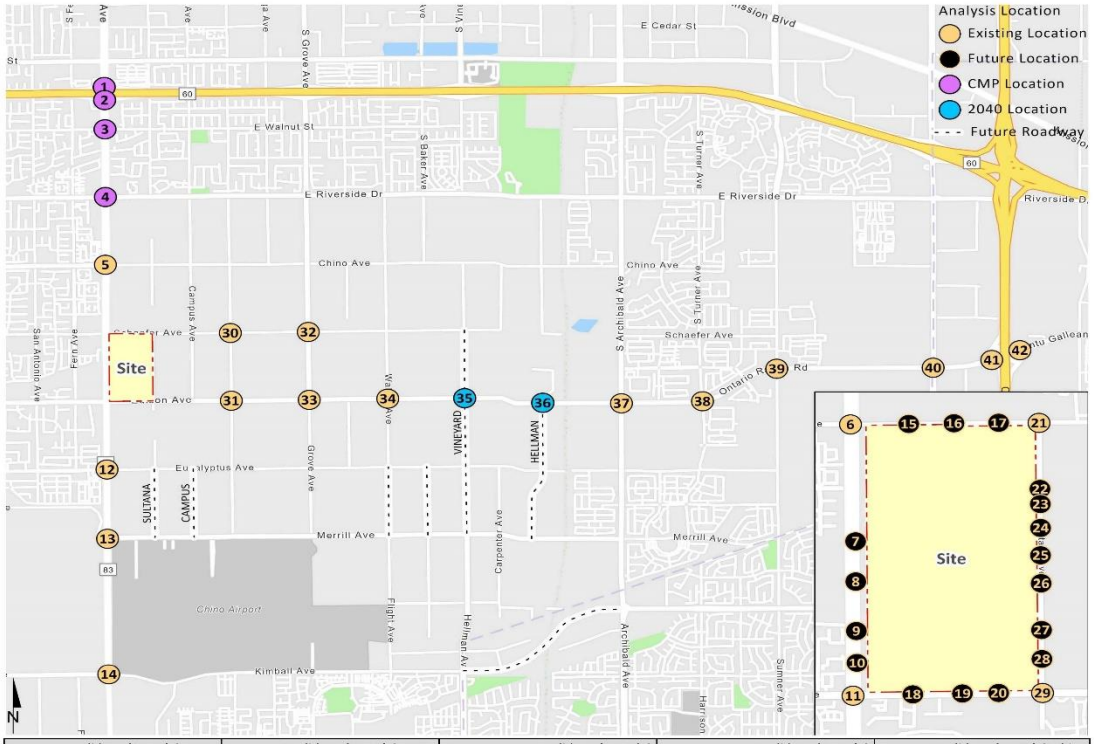


EXHIBIT 6-2: OPENING YEAR CUMULATIVE (2027) WITH PROJECT TRAFFIC VOLUMES (PAGE 1 OF 2)



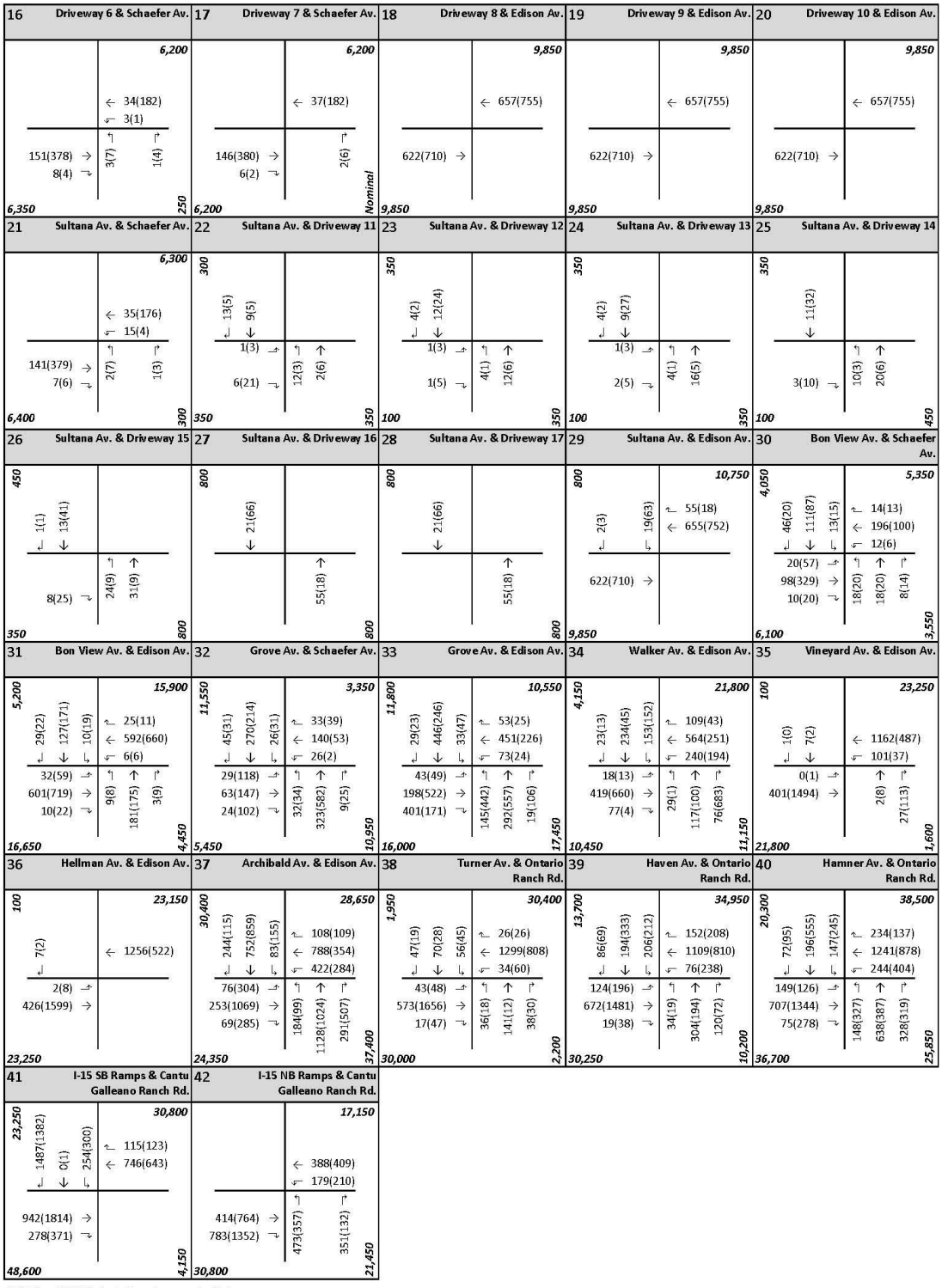
1 Euclid Av. (SR-83) & SR-60 WB Ramps			2 Euclid Av. (SR-83) & SR-60 EB Ramps			3 Euclid Av. (SR-83) & Walnut Av.			4 Euclid Av. (SR-83) & Riverside Dr.			5 Euclid Av. (SR-83) & Chino Av.		
30,800		11,650	36,600		10,050	41,250		15,400	36,700		16,500	37,600		11,350
353(468)	↱ 400(372)		1115(1157)	↱		62(128)	↱ 169(152)		123(167)	↱ 97(73)		88(68)	↱ 76(49)	
965(929)	← 4(7)		←	↱ 392(363)		1556(1203)	← 403(241)		1474(1069)	← 498(407)		1650(1183)	← 300(131)	
↳	↰ 541(592)		↳	↰		↳	↰ 109(81)		↳ 238(109)	↰ 233(168)		↳ 57(57)	↰ 113(94)	
↰	↑ →		↰	↑ →		↰	↑ →		↰	↑ →		↰	↑ →	
429(770)	899(944)		413(286)	→	↱	105(126)	→	↱	167(139)	→	↱	68(79)	→	↱
0(3)	→		820(460)	→		266(518)	→		352(511)	→		190(449)	→	
820(460)	→		914(1425)	579(541)		149(180)	→		130(86)	→		74(56)	→	
13,400		36,600	10,750		42,550	15,150		49,400	16,400		37,550	9,600		39,550

6 Euclid Av. (SR-83) & Schaefer Av.			7 Euclid Av. (SR-83) & Driveway 1			8 Euclid Av. (SR-83) & Driveway 2			9 Euclid Av. (SR-83) & Driveway 3			10 Euclid Av. (SR-83) & Driveway 4		
38,650		6,350	33,150		100	33,150		350	33,150		350	33,150		300
169(146)	↱ 9(42)		1637(1284)	↱		1637(1284)	↱		1637(1284)	↱		1637(1284)	↱	
1587(1123)	← 25(108)		←	↱ 3(8)		←	↱ 9(30)		←	↱ 8(25)		←	↱	
55(44)	↰ 3(39)		↳	↰		↳	↰		↳	↰		↳	↰	
234(364)	↑ →		↰	↑ →		↰	↑ →		↰	↑ →		↰	↑ →	
82(303)	→			→	↱		→	↱		→	↱		→	
104(156)	→		898(1530)	8(3)		897(1503)	31(10)		920(1488)	25(10)				
13,500		36,000			33,150			33,150			33,150			32,850

11 Euclid Av. (SR-83) & Edison Av.			12 Euclid Av. (SR-83) & Eucalyptus Av.			13 Euclid Av. (SR-83) & Merrill Av.			14 Euclid Av. (SR-83) & Kimball Av.			15 Driveway 5 & Schaefer Av.		
35,500		16,100	37,800		6,600	39,600		19,950	34,350		28,000			6,350
141(130)	↱ 140(249)		32(53)	↱ 85(268)		56(9)	↱ 205(430)		328(176)	↱ 329(200)			← 37(189)	
1274(1007)	← 454(470)		1299(1339)	← 157(47)		953(1223)	← 54(0)		718(1016)	← 1064(449)				
223(148)	↰ 63(36)		254(126)	↰ 25(6)		432(303)	↰ 297(517)		192(539)	↰ 105(87)				
109(178)	↑ →		↰	↑ →		↰	↑ →		↰	↑ →				
380(526)	→		58(33)	→		7(3)	→		105(294)	→				
172(188)	→		41(148)	→		4(20)	→		296(932)	→		157(376)	→	
			154(206)	→		3(9)	→		41(71)	→		6(2)	→	
145(188)	845(1302)	27(39)	164(114)	901(1369)	10(19)	13(1)	866(1022)	467(282)	74(89)	916(749)	67(194)			
18,950		40,300	6,800		40,250	500		35,700	23,150		25,700	6,350		Nominal

##(##) AM(PM) Peak Hour Intersection Volumes
Average Daily Trips

EXHIBIT 6-2: OPENING YEAR CUMULATIVE (2027) WITH PROJECT TRAFFIC VOLUMES (PAGE 2 OF 2)



##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

6.4 INTERSECTION OPERATIONS ANALYSIS

Opening Year Cumulative (2027) peak hour traffic operations have been evaluated for the study area intersections based on the analysis methodologies presented in Section 2 *Methodologies* of this TA. The intersection analysis results are summarized in Table 6-1 for Opening Year Cumulative (2027) traffic conditions, which indicates that the following study area intersections are anticipated to operate at an unacceptable LOS during the peak hours under Opening Year Cumulative (2027) Without Project traffic conditions:

- Euclid Avenue (SR-83) & SR-60 Westbound Ramps (#1) – LOS F PM peak hour only
- Euclid Avenue (SR-83) & SR-60 Eastbound Ramps (#2) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Riverside Drive (#4) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Chino Avenue (#5) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Schaefer Avenue (#6) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Edison Avenue (#11) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Eucalyptus Avenue (#12) – LOS F AM peak hour only
- Euclid Avenue (SR-83) & Merrill Avenue (#13) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Kimball Avenue (#14) – LOS F PM peak hour only
- Bon View Avenue & Edison Avenue (#31) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#32) – LOS F AM and PM peak hours
- Grove Avenue & Edison Avenue (#33) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#34) – LOS F AM and PM peak hours
- Archibald Avenue & Edison Avenue (#37) – LOS F AM and PM peak hours

There are no additional study area intersections anticipated to operate at an unacceptable LOS during the peak hours with the addition of Project traffic under Opening Year Cumulative (2027) With Project traffic conditions. The intersection operations analysis worksheets for Opening Year Cumulative (2027) Without Project and With Project traffic conditions are included in Appendices 6.1 and 6.2, respectively.

6.5 TRAFFIC SIGNAL WARRANTS ANALYSIS

All existing unsignalized study area intersections are anticipated to meet a traffic signal warrant under previous scenarios. As such, traffic signal warrants have not been evaluated for Opening Year Cumulative (2027) Without Project traffic conditions. There are no additional unsignalized study area intersections anticipated to meet a daily volume-based traffic signal warrant under Opening Year Cumulative (2027) With Project traffic conditions, in addition to the locations previously identified under Existing and E+P traffic conditions (see Appendix 6.3).

TABLE 6-1: INTERSECTION ANALYSIS FOR OPENING YEAR CUMULATIVE (2027) CONDITIONS

#	Intersection	Traffic Control[2]	2027 Without Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	2027 With Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	Acceptable LOS
1	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	53.0	**113.8**	D	**F**	**55.2**	**119.9**	**E**	**F**	D
2	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	**132.3**	**85.2**	**F**	**F**	**136.7**	**90.1**	**F**	**F**	D
3	Euclid Av. (SR-83) & Walnut Av.	TS	38.3	42.7	D	D	39.5	44.1	D	D	D
4	Euclid Av. (SR-83) & Riverside Dr.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	E
5	Euclid Av. (SR-83) & Chino Av.	TS	**137.6**	**159.6**	**F**	**F**	**144.1**	**168.7**	**F**	**F**	E
6	Euclid Av. (SR-83) & Schaefer Av.	TS	**105.4**	**141.3**	**F**	**F**	**109.0**	**170.3**	**F**	**F**	E
7	Euclid Av. (SR-83) & Driveway 1	CSS	Future Intersection				13.0	19.6	B	C	E
8	Euclid Av. (SR-83) & Driveway 2	CSS	Future Intersection				13.3	21.0	B	C	E
9	Euclid Av. (SR-83) & Driveway 3	CSS	Future Intersection				13.5	20.5	B	C	E
10	Euclid Av. (SR-83) & Driveway 4		Future Intersection				Future Intersection				E
11	Euclid Av. (SR-83) & Edison Av.	TS	**116.5**	**169.1**	**F**	**F**	**134.9**	**177.5**	**F**	**F**	E
12	Euclid Av. (SR-83) & Eucalyptus Av.	TS	**99.6**	35.6	**F**	D	**101.9**	**36.0**	**F**	D	E
13	Euclid Av. (SR-83) & Merrill Av.	TS	**164.8**	**>200.0**	**F**	**F**	**165.5**	**>200.0**	**F**	**F**	E
14	Euclid Av. (SR-83) & Kimball Av.	TS	56.9	**96.3**	E	**F**	58.1	**96.6**	E	**F**	E
15	Driveway 5 & Schaefer Av.	CSS	Future Intersection				9.3	11.1	A	B	E
16	Driveway 6 & Schaefer Av.	CSS	Future Intersection				9.8	12.0	A	B	E
17	Driveway 7 & Schaefer Av.	CSS	Future Intersection				9.3	11.1	A	B	E
18	Driveway 8 & Edison Av.		Future Intersection				Future Intersection				E
19	Driveway 9 & Edison Av.		Future Intersection				Future Intersection				E
20	Driveway 10 & Edison Av.		Future Intersection				Future Intersection				E
21	Sultana Av. & Schaefer Av.	AWS[3]	Future Intersection				8.1	11.4	A	B	E
22	Sultana Av. & Driveway 11	CSS	Future Intersection				8.5	8.6	A	A	E
23	Sultana Av. & Driveway 12	CSS	Future Intersection				8.7	8.7	A	A	E
24	Sultana Av. & Driveway 13	CSS	Future Intersection				8.5	8.7	A	A	E
25	Sultana Av. & Driveway 14	CSS	Future Intersection				8.4	8.5	A	A	E
26	Sultana Av. & Driveway 15	CSS	Future Intersection				8.4	8.6	A	A	E
27	Sultana Av. & Driveway 16		Future Intersection				Future Intersection				E
28	Sultana Av. & Driveway 17		Future Intersection				Future Intersection				E
29	Sultana Av. & Edison Av.										
	Recommended Traffic control	CSS	Future Intersection				20.4	25.9	C	D	E
	Per City Guidelines[4]	AWS[3]	Future Intersection				**>100.0**	**>100.0**	**F**	**F**	E
30	Bon View Av. & Schaefer Av.	AWS	13.5	18.5	B	C	14.1	19.9	B	C	E
31	Bon View Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	E
32	Grove Av. & Schaefer Av.	AWS	**93.6**	**>100.0**	**F**	**F**	**99.7**	**>100.0**	**F**	**F**	E
33	Grove Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	E
34	Walker Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	E
35	Vineyard Av. & Edison Av.		Future Intersection				Future Intersection				E
36	Hellman Av. & Edison Av.		Future Intersection				Future Intersection				E
37	Archibald Av. & Edison Av.	TS	**126.7**	**96.6**	**F**	**F**	**139.4**	**106.4**	**F**	**F**	E
38	Turner Av. & Ontario Ranch Rd.	TS	19.6	14.7	B	B	20.2	15.3	C	B	E
39	Haven Av. & Ontario Ranch Rd.	TS	29.5	39.7	C	D	30.5	44.3	C	D	E
40	Hamner Av. & Ontario Ranch Rd.	TS	32.2	34.1	C	C	33.9	35.1	C	D	D
41	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	21.2	34.8	C	C	22.4	38.4	C	D	D
42	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	18.8	27.2	B	C	19.5	28.4	B	C	D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

1 Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds.

2 TS = Traffic Signal; AWS = All-way Stop; CSS = Cross-street Stop

3 An all-way stop has been evaluated for this intersection for opening year conditions only, per the request of the City of Ontario.

4 Although an all-way stop has been evaluated at the City's request, the through volumes along Edison Avenue exceed the available capac therefore causing execessive delays and intersection deficiency during the peak hours. As such, it is recommended that the intersection a cross-street stop controlled intersection.

6.6 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for Opening Year Cumulative (2027) traffic conditions are presented in Table 6-2. As shown in Table 6-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows. Worksheets for Opening Year Cumulative (2027) Without Project and With Project traffic conditions queuing analysis are provided in Appendices 6.4 and 6.5, respectively.

TABLE 6-2: PEAK HOUR OFF-RAMP QUEUING SUMMARY FOR OPENING YEAR CUMULATIVE (2027) CONDITIONS

			2027 Without Project				2027 With Project			
		Available Stacking Distance	95th Percentile Queue (Feet)		Acceptable? [1]		95th Percentile Queue (Feet)		Acceptable? [1]	
Intersection	Movement	(Feet)	AM Peak	PM Peak	AM	PM	AM Peak	PM Peak	AM	PM
Euclid Av. & SR-60 WB Ramps	WBL	350	557 [2,3]	510 [2,3]	Yes	Yes	573 [2,3]	518 [2,3]	Yes	No
	WBL/T/R	1,415	602 [2]	545 [2]	Yes	Yes	616 [2]	556 [2]	Yes	Yes
	WBR	350	335 [2]	271	Yes	Yes	335	272	Yes	Yes
Euclid Av. & SR-60 EB Ramps	EBL	900	454 [2]	304	Yes	Yes	454 [2]	304	Yes	Yes
	EBL/R	1,290	1,642 [2,3]	817 [2]	Yes	Yes	1,670 [2,3]	850 [2]	Yes	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,435	120	174	Yes	Yes	120	174	Yes	Yes
	SBL/R	550	1,006 [2,3]	905 [2,3]	Yes	Yes	1,034 [2,3]	921 [2,3]	Yes	Yes
	SBR	455	937 [2,3]	831 [2,3]	Yes	Yes	965 [2,3]	848 [2,3]	Yes	Yes
I-15 NB Ramps & Cantu Galleano Ranch Rd.	NBL	1,615	353 [2]	212	Yes	Yes	376 [2]	217	Yes	Yes
	NBL/R	585	85	64	Yes	Yes	86	64	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60 Freeway mainline.

6.7 PROJECT DEFICIENCIES AND RECOMMENDED IMPROVEMENTS

Improvements needed to achieve acceptable LOS have been identified at intersections or off-ramps that are anticipated to operate at a deficient LOS under Opening Year Cumulative (2027) traffic conditions.

6.7.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

Improvement strategies have been recommended at intersections that have been identified as deficient under Opening Year Cumulative (2027) traffic conditions in an effort to achieve an acceptable LOS. The effectiveness of the recommended improvement strategies to address Opening Year Cumulative (2027) traffic deficiencies are presented in Table 6-3. Worksheets for Opening Year Cumulative (2027) Without Project and With Project traffic conditions, with improvements, HCM calculation worksheets are provided in Appendices 6.6 and 6.7, respectively.

TABLE 6-3: OPENING YEAR CUMULATIVE (2027) CONDITIONS INTERSECTION OPERATIONS ANALYSIS WITH IMPROVEMENTS

	Traffic	Intersection Approach Lanes[1]												Delay[2] (secs.)		Level of Service		Acceptable
		Northbound			Southbound			Eastbound			Westbound							
	Control[3]	L	T	R	L	T	R	L	T	R	L	T	R	AM	PM	AM	PM	LOS
1 Euclid Av. (SR-83) & SR-60 WB Ramps																		
Without Project:	TS	**2**	2	0	0	2	1	0	0	0	1	1	1	31.3	35.1	C	D	D
With Project:	TS	**2**	2	0	0	2	1	0	0	0	1	1	1	31.8	36.4	C	D	
2 Euclid Av. (SR-83) & SR-60 EB Ramps																		
Without Project:	TS	0	2	1	**2**	2	0	1	1	**1**	0	0	0	46.7	27.0	D	C	D
With Project:	TS	0	2	1	**2**	2	0	1	1	**1**	0	0	0	48.5	29.1	D	C	
4 Euclid Av. (SR-83) & Riverside Dr.																		
Without Project:	TS	1	**3**	0	1	**3**	1>	1	**2**	**1**	1	2	d	45.8	42.5	D	D	E
With Project:	TS	1	**3**	0	1	**3**	1>	1	**2**	**1**	1	2	d	47.5	44.0	D	D	
5 Euclid Av. (SR-83) & Chino Av.																		
Without Project:	TS	1	**3**	1	1	**3**	1	1	1	1	**1**	1	0	38.0	44.6	D	D	E
With Project:	TS	1	**3**	1	1	**3**	1	1	1	1	**1**	1	0	39.7	48.1	D	D	
6 Euclid Av. (SR-83) & Schaefer Av.																		
Without Project:	TS	**2**	**3**	1	**2**	**3**	1	1	1	1	1	1	0	24.0	43.3	C	D	E
With Project:	TS	**2**	**3**	1	**2**	**3**	1	1	1	1	1	1	0	24.8	52.9	C	D	
11 Euclid Av. (SR-83) & Edison Av.																		
Without Project:	TS	**2**	**3**	1	1	**3**	1	1	1	1	1	1	1	56.4	50.0	E	D	E
With Project:	TS	**2**	**3**	1	1	**3**	1	1	1	1	1	1	1	60.9	53.4	E	D	
12 Euclid Av. (SR-83) & Eucalyptus Av.																		
Without Project:	TS	1	**3**	1	1	**3**	1	1	1	1	1	1	0	24.9	22.1	C	C	E
With Project:	TS	1	**3**	1	1	**3**	1	1	1	1	1	1	0	25.5	22.2	C	C	
13 Euclid Av. (SR-83) & Merrill Av.																		
Without Project:	TS	1	**3**	1	**2**	**3**	0	0	1	0	**1**	1	**1>**	51.4	50.8	D	D	E
With Project:	TS	1	**3**	1	**2**	**3**	0	0	1	0	**1**	1	**1>**	53.5	51.3	D	D	
14 Euclid Av. (SR-83) & Kimball Av.																		
Without Project:	TS	1	**3**	1>	2	**3**	1>	2	2	1	2	2	1>	38.3	34.1	D	C	E
With Project:	TS	1	**3**	1>	2	**3**	1>	2	2	1	2	2	1>	38.6	35.2	D	D	
31 Bon View Av. & Edison Av.																		
Without Project:	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	9.2	9.4	A	A	E
With Project:	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	9.6	10.3	A	B	
32 Grove Av. & Schaefer Av.																		
Without Project:	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	9.2	14.8	A	B	E
With Project:	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	9.3	15.4	A	B	
33 Grove Av. & Edison Av.																		
Without Project:	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	1	0	**1**	1	0	19.8	45.0	B	D	E
With Project:	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	1	0	**1**	1	0	23.3	54.8	C	D	
34 Walker Av. & Edison Av.																		
Without Project:	**TS**	0	1	0	0	1	0	**1**	**2**	0	**1**	**2**	0	12.8	33.1	B	C	E
With Project:	**TS**	**1**	1	0	**1**	1	0	**1**	**2**	0	**1**	**2**	0	13.2	34.9	B	C	
37 Archibald Av. & Edison Av.																		
Without Project:	TS	**2**	**3**	1>>	1	2	1	2	2	1>>	2	**2**	1	44.4	51.2	D	D	E
With Project:	TS	**2**	**3**	1>>	1	2	1	2	2	1>>	2	**2**	1	47.6	53.6	D	D	

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; **1** = Improvement

[2] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[3] TS = Traffic Signal; **TS** = Traffic Signal

6.7.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES

As shown previously in Table 6-2, there are no movements that are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows for Opening Year Cumulative (2027) traffic conditions. As such, no improvements have been identified.

7 HORIZON YEAR (2050) TRAFFIC CONDITIONS

This section discusses the methods used to develop Horizon Year (2050) Without and With Project traffic forecasts, and the resulting intersection operations and traffic signal warrant analyses.

7.1 ROADWAY IMPROVEMENTS

The lane configurations and traffic controls assumed to be in place for Horizon Year (2050) conditions are consistent with those shown previously on Exhibit 3-1, with the exception of the following:

- Project driveways and those facilities assumed to be constructed by the Project to provide site access are also assumed to be in place for Horizon Year conditions only (e.g., intersection and roadway improvements along the Project's frontage and driveways).
- If applicable, driveways and those facilities assumed to be constructed by cumulative developments to provide site access are also assumed to be in place for Horizon Year conditions only.

7.2 WITHOUT PROJECT TRAFFIC VOLUME FORECASTS

This scenario includes the refined post-process volumes obtained from the SBTAM (see Section 4.8 *Horizon Year (2050) Volume Development* of this TA for a detailed discussion on the post-processing methodology). The weekday ADT and weekday AM and PM peak hour volumes, in actual vehicles, which can be expected for Horizon Year (2050) Without Project traffic conditions are shown on Exhibit 7-1.

7.3 WITH PROJECT TRAFFIC VOLUME FORECASTS

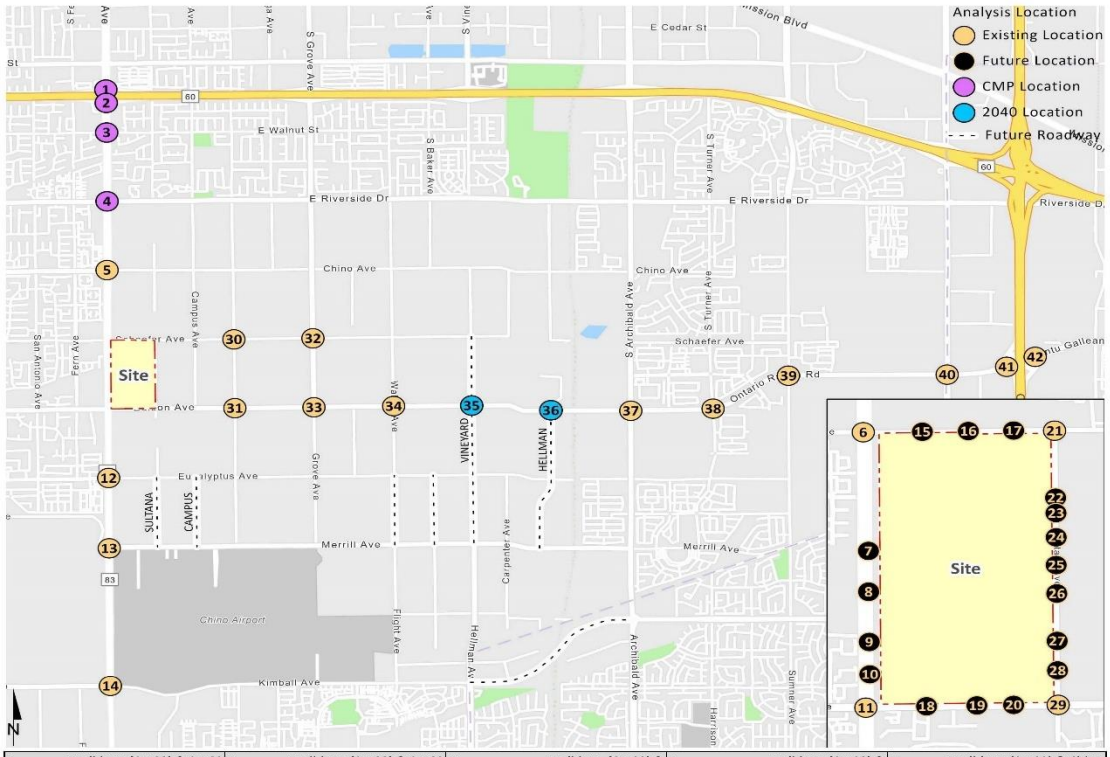
This scenario includes the refined post-process volumes obtained from the SBTAM, plus the variance in traffic generated by the buildout proposed Project compared to the approved Specific Plan. The weekday ADT and weekday AM and PM peak hour volumes, in actual vehicles, which can be expected for Horizon Year (2050) With Project traffic conditions are shown on Exhibit 7-2.

7.4 INTERSECTION OPERATIONS ANALYSIS

LOS calculations were conducted for the study intersections to evaluate their operations under Horizon Year (2050) Without Project conditions with roadway and intersection geometrics consistent with Section 7.1 *Roadway Improvements*. As shown in Table 7-1, the following study area intersections are anticipated to operate at an unacceptable LOS during the peak hours:

- Euclid Avenue (SR-83) & SR-60 Westbound Ramps (#1) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & SR-60 Eastbound Ramps (#2) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Riverside Drive (#4) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Chino Avenue (#5) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Schaefer Avenue (#6) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Edison Avenue (#11) – LOS F AM and PM peak hours

EXHIBIT 7-1: HORIZON YEAR (2050) WITHOUT PROJECT TRAFFIC VOLUMES (PAGE 1 OF 2)



1 Euclid Av. (SR-83) & SR-60 WB Ramps	2 Euclid Av. (SR-83) & SR-60 EB Ramps	3 Euclid Av. (SR-83) & Walnut Av.	4 Euclid Av. (SR-83) & Riverside Dr.	5 Euclid Av. (SR-83) & Chino Av.
49,500 / 12,650	49,450 / 10,900	50,850 / 18,950	50,700 / 31,900	78,300 / 15,000
389(516) ↲ 1391(1710) ↓	1487(1895) ↓ 431(400) ↳	68(198) ↲ 1686(1653) ← 211(304) ↳	164(429) ↲ 1593(1510) ← 262(120) ↳	154(181) ↲ 1784(1561) ← 124(111) ↳
↱ 440(409) ← 5(7) ↰ 585(646)	↱ ↑ ↱	↱ 186(210) ← 443(423) ↰ 158(122)	↱ 107(80) ← 548(697) ↰ 263(184)	↱ 238(122) ← 379(406) ↰ 125(165)
539(317) ↳ 0(4) → 890(499) ↴	467(834) → 1661(1389) →	115(174) ↳ 328(570) → 198(296) ↴	189(153) ↳ 811(973) → 204(164) ↴	143(153) ↳ 285(684) → 81(91) ↴
	1411(1552) → 632(584) ↱	127(159) → 1777(1718) → 58(98) ↱	227(294) → 1543(1642) → 322(439) ↱	69(79) → 1979(1868) → 213(262) ↱
14,600 / 49,450	11,700 / 50,850	16,650 / 53,750	30,250 / 78,650	15,900 / 77,300

6 Euclid Av. (SR-83) & Schaefer Av.	7 Euclid Av. (SR-83) & Driveway 1	8 Euclid Av. (SR-83) & Driveway 2	9 Euclid Av. (SR-83) & Driveway 3	10 Euclid Av. (SR-83) & Driveway 4
76,850 / 9,650	35,700	35,700	35,700	35,700 / 300
186(186) ↲ 1736(1581) ← 107(89) ↳	1779(1363) ←	1779(1363) ←	1779(1363) ←	1779(1363) ←
↱ 7(213) ← 27(265) ↰ 2(172)				
425(401) ↳ 174(333) → 172(171) ↴	970(1623) →	970(1623) →	970(1623) →	
118(133) ↑ 1887(1672) ↑ 85(65) ↱				
22,850 / 64,600	35,700	35,700	35,700	35,400

11 Euclid Av. (SR-83) & Edison Av.	12 Euclid Av. (SR-83) & Eucalyptus Av.	13 Euclid Av. (SR-83) & Merrill Av.	14 Euclid Av. (SR-83) & Kimball Av.	15 Driveway 5 & Schaefer Av.
64,250 / 56,650	57,100 / 17,000	50,600 / 21,900	59,100 / 30,800	6,550
190(238) ↲ 1397(1182) ↓ 478(284) ↳	37(83) ↲ 1451(1859) ↓ 278(138) ↳	62(10) ↲ 1417(2010) ↓ 475(334) ↳	483(547) ↲ 998(1114) ↓ 211(1016) ↳	← 35(192)
↱ 622(318) ← 877(726) ↰ 353(149)	↱ 94(295) ← 173(196) ↰ 41(46)	↱ 225(473) ← 60(0) ↰ 337(702)	↱ 805(264) ← 1170(494) ↰ 117(95)	
415(347) ↳ 850(1358) → 190(207) ↴	78(48) ↳ 175(163) → 169(227) ↴	7(4) ↳ 5(22) → 4(18) ↴	337(563) ↳ 325(1025) → 55(78) ↴	151(402) →
160(207) ↑ 1053(1425) ↑ 172(139) ↱	180(125) → 1208(1498) → 140(23) ↱	41(3) → 1479(1288) → 601(456) ↱	81(98) → 1018(987) → 73(213) ↱	
48,850 / 57,100	7,500 / 50,150	550 / 59,650	25,400 / 42,900	6,550

##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

EXHIBIT 7-1: HORIZON YEAR (2050) WITHOUT PROJECT TRAFFIC VOLUMES (PAGE 2 OF 2)

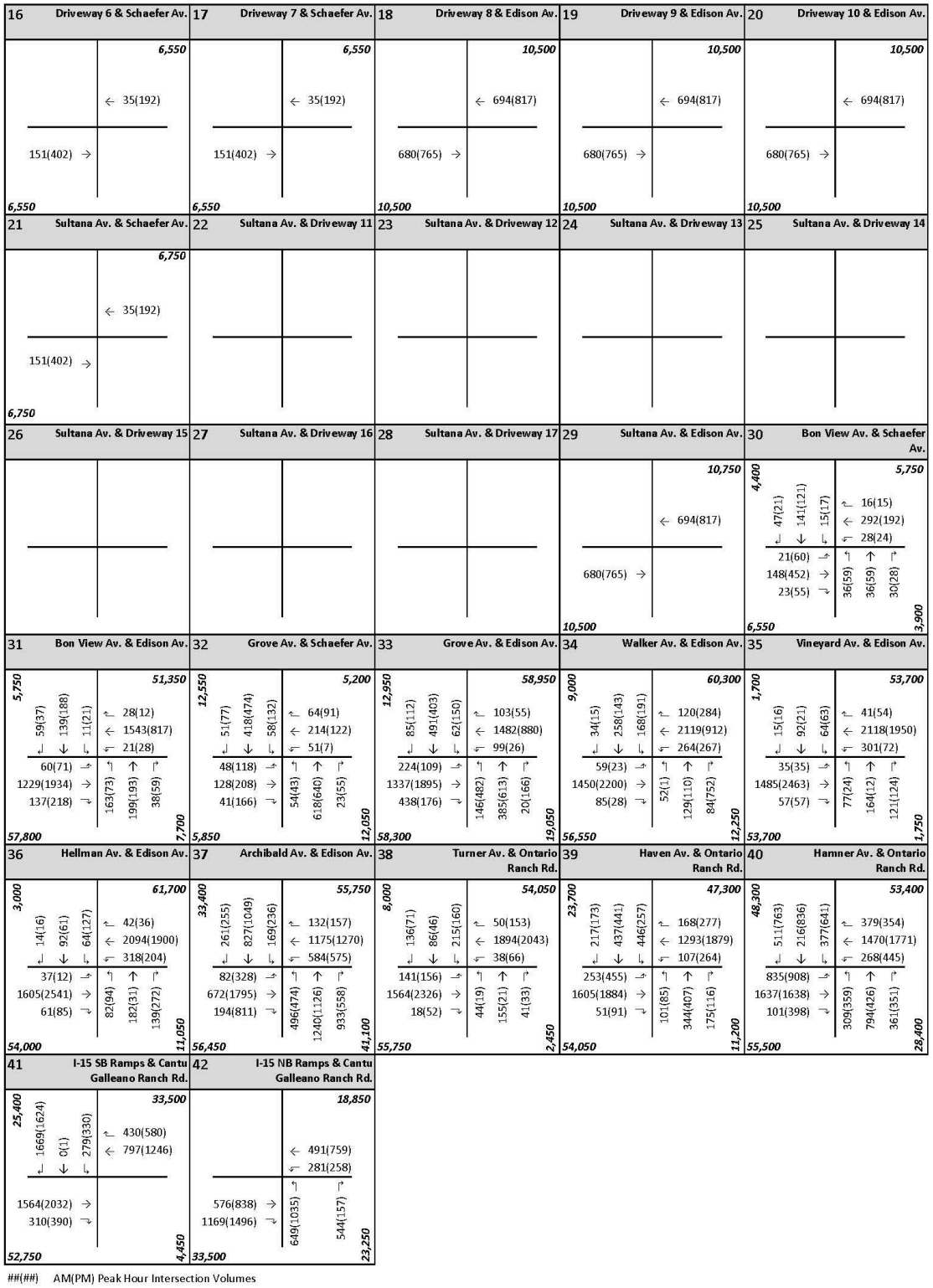
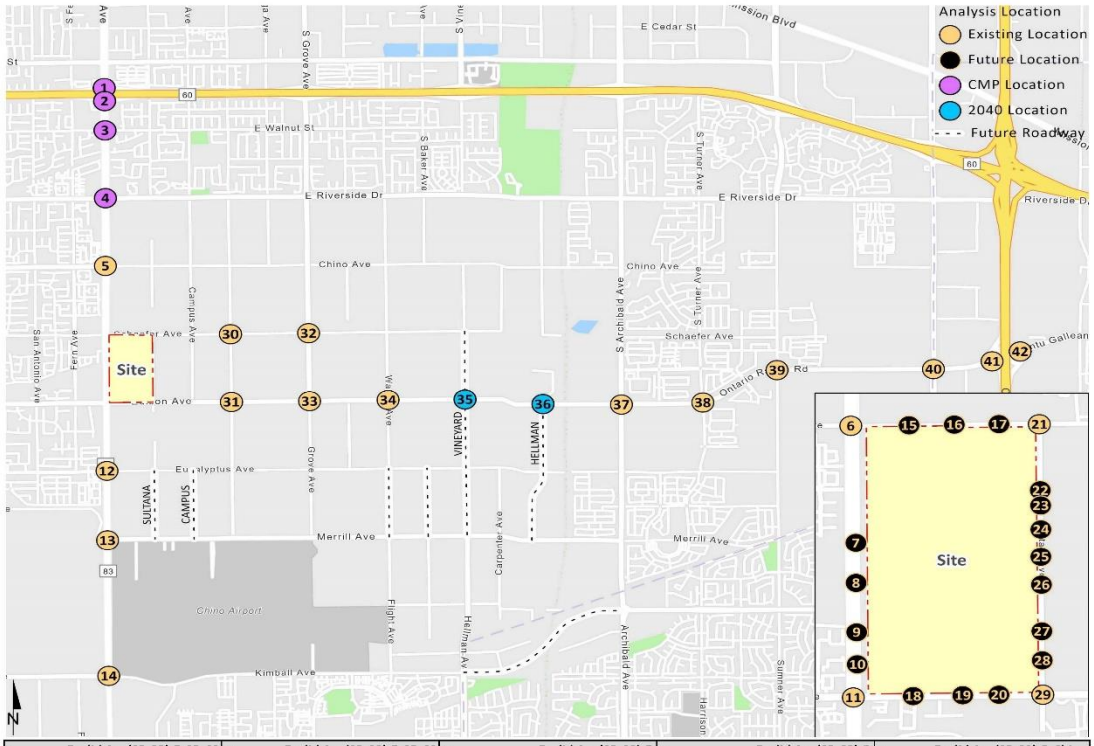


EXHIBIT 7-2: HORIZON YEAR (2050) WITH PROJECT TRAFFIC VOLUMES (PAGE 1 OF 2)



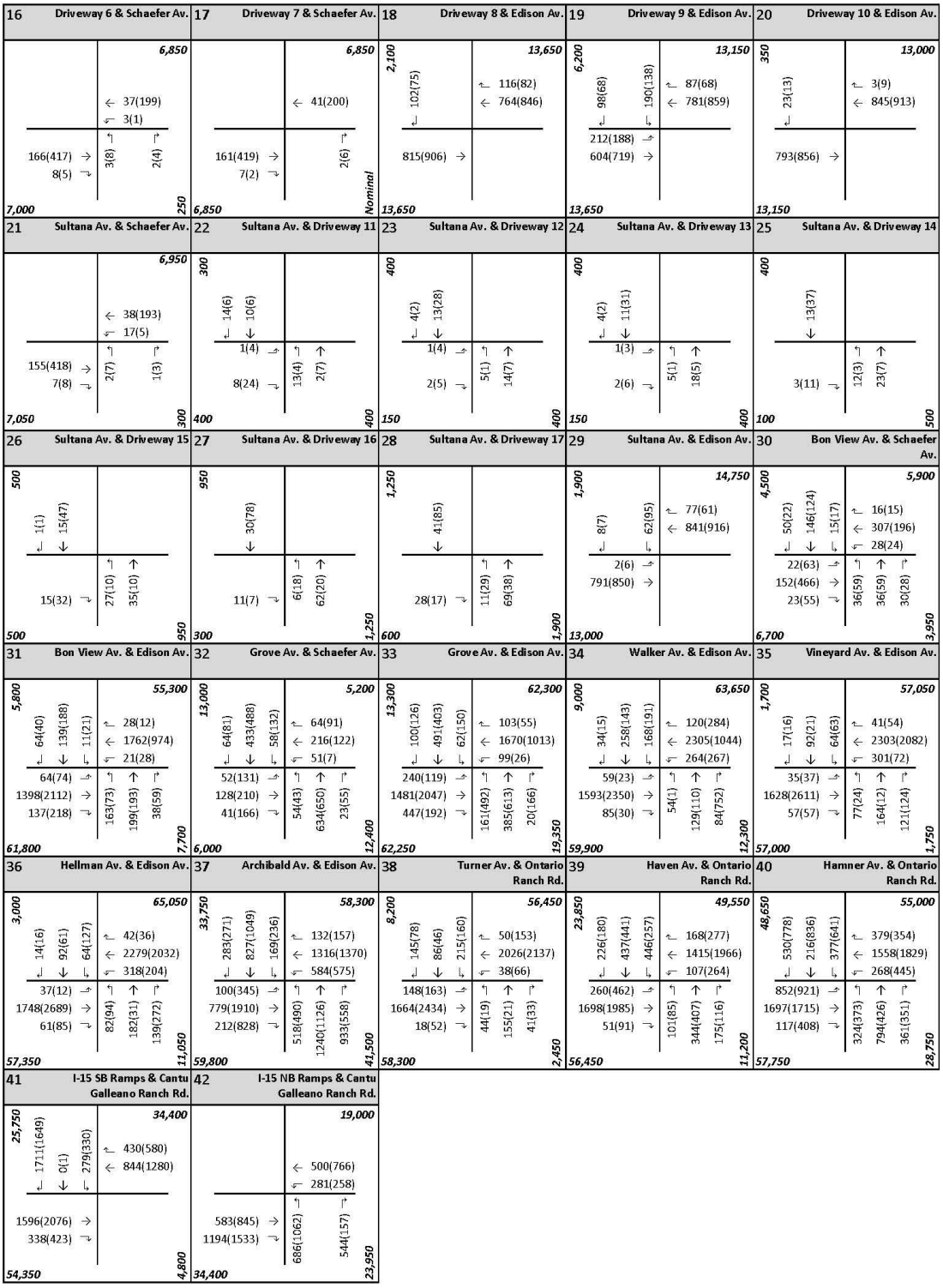
1 Euclid Av. (SR-83) & SR-60 WB Ramps	2 Euclid Av. (SR-83) & SR-60 EB Ramps	3 Euclid Av. (SR-83) & Walnut Av.	4 Euclid Av. (SR-83) & Riverside Dr.	5 Euclid Av. (SR-83) & Chino Av.
49,650 / 13,000	50,400 / 11,250	52,600 / 19,000	52,750 / 32,000	80,600 / 15,000
389(516) ↳ 1400(1717) ↓	1527(1925) ↓ 431(400) ↳	68(198) ↳ 1762(1719) ↓ 211(304) ↳	164(429) ↳ 1687(1588) ↓ 262(120) ↳	154(181) ↳ 1895(1650) ↓ 124(111) ↳
↰ 440(409) ← 5(7) ↑ 615(669)	↰ 539(317) ← 0(4) ↑ 926(536)	↰ 186(210) ← 443(423) ↑ 163(125)	↰ 107(80) ← 548(697) ↑ 268(187)	↰ 238(122) ← 379(406) ↑ 125(165)
↱ 504(867) → 1668(1396) ↱	↱ 1456(1592) → 657(608) ↱	↱ 115(174) → 328(570) → 210(304) ↱ 136(168) → 1846(1782) → 62(101) ↱	↱ 189(153) → 811(973) → 216(172) ↱ 236(303) → 1626(1717) → 326(442) ↱	↱ 143(153) → 285(684) → 91(99) ↱ 78(86) → 2075(1955) → 213(262) ↱
15,100 / 50,400	12,150 / 52,600	16,850 / 55,800	30,450 / 80,950	16,050 / 79,750

6 Euclid Av. (SR-83) & Schaefer Av.	7 Euclid Av. (SR-83) & Driveway 1	8 Euclid Av. (SR-83) & Driveway 2	9 Euclid Av. (SR-83) & Driveway 3	10 Euclid Av. (SR-83) & Driveway 4
79,350 / 10,100	38,450 / 150	38,450 / 400	38,450 / 450	38,450 / 1,600
186(186) ↳ 1834(1664) ↓ 130(103) ↳	1899(1500) ↓	1899(1500) ↓	1899(1500) ↓	1899(1500) ↓
↰ 11(223) ← 28(270) ↑ 3(173)	↰ 3(9)	↰ 10(34)	↰ 9(28)	↰ 61(45)
425(401) ↳ 179(334) → 181(178) ↱ ↱ 139(184) → 1988(1756) → 85(65) ↱	↱ 1089(1749) → 9(3) ↱	↱ 1088(1719) → 35(12) ↱	↱ 1114(1702) → 28(11) ↱	↱ 69(48) ↱
23,300 / 67,100	38,450 / 38,450	38,450 / 38,450	38,450 / 38,450	38,450 / 38,150

11 Euclid Av. (SR-83) & Edison Av.	12 Euclid Av. (SR-83) & Eucalyptus Av.	13 Euclid Av. (SR-83) & Merrill Av.	14 Euclid Av. (SR-83) & Kimball Av.	15 Driveway 5 & Schaefer Av.
67,000 / 59,850	58,550 / 17,000	51,750 / 21,900	60,250 / 31,000	7,000
194(254) ↳ 1402(1197) ↓ 589(390) ↳	37(93) ↳ 1451(1905) ↓ 278(138) ↳	62(10) ↳ 1468(2056) ↓ 475(334) ↳	501(564) ↳ 1018(1135) ↓ 224(1024) ↳	← 41(208)
↰ 718(372) ← 893(736) ↑ 412(189)	↰ 94(295) ← 178(196) ↑ 41(46)	↰ 225(473) ← 60(0) ↑ 337(702)	↰ 819(274) ← 1170(494) ↑ 117(95)	
432(352) ↳ 865(1372) → 190(207) ↱ ↱ 160(207) → 1111(1458) → 191(163) ↱	↱ 78(59) ↳ 195(163) → 175(227) ↱ ↱ 180(125) → 1208(1544) → 142(23) ↱	↱ 7(4) ↳ 5(22) → 4(18) ↱ ↱ 41(3) → 1540(1334) → 601(456) ↱	↱ 359(579) ↳ 325(1025) → 55(78) ↱ ↱ 81(98) → 1043(1006) → 73(213) ↱	↱ 173(416) → 7(2) ↱ ↱ 2(6) ↱
49,350 / 58,550	7,750 / 51,300	550 / 60,850	25,800 / 43,400	7,000 / Nominal

##(##) AM(PM) Peak Hour Intersection Volumes
Average Daily Trips

EXHIBIT 7-2: HORIZON YEAR (2050) WITH PROJECT TRAFFIC VOLUMES (PAGE 2 OF 2)



##(##) AM(PM) Peak Hour Intersection Volumes

Average Daily Trips

TABLE 7-1: INTERSECTION ANALYSIS FOR HORIZON YEAR (2050) CONDITIONS

#	Intersection	Traffic Control[2]	2050 Without Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	2050 With Project Delay[1] (secs.) AM	PM	Level of Service AM	PM	Acceptable LOS
1	Euclid Av. (SR-83) & SR-60 WB Ramps	TS	**87.5**	**187.3**	**F**	**F**	**96.7**	**199.8**	**F**	**F**	D
2	Euclid Av. (SR-83) & SR-60 EB Ramps	TS	**192.3**	**116.7**	**F**	**F**	**>200.0**	**130.3**	**F**	**F**	D
3	Euclid Av. (SR-83) & Walnut Av.	TS	41.0	53.4	D	D	47.9	54.6	D	D	D
4	Euclid Av. (SR-83) & Riverside Dr.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	E
5	Euclid Av. (SR-83) & Chino Av.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	E
6	Euclid Av. (SR-83) & Schaefer Av.	TS	**196.8**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	E
7	Euclid Av. (SR-83) & Driveway 1	CSS	Future Intersection				14.5	23.2	B	C	E
8	Euclid Av. (SR-83) & Driveway 2	CSS	Future Intersection				15.0	25.7	C	D	E
9	Euclid Av. (SR-83) & Driveway 3	CSS	Future Intersection				15.2	25.1	C	D	E
10	Euclid Av. (SR-83) & Driveway 4	CSS	Future Intersection				17.0	26.5	C	D	E
11	Euclid Av. (SR-83) & Edison Av.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	E
12	Euclid Av. (SR-83) & Eucalyptus Av.	TS	**147.1**	68.5	**F**	E	**149.9**	72.7	**F**	E	E
13	Euclid Av. (SR-83) & Merrill Av.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	E
14	Euclid Av. (SR-83) & Kimball Av.	TS	**99.0**	**>200.0**	**F**	**F**	**107.3**	**>200.0**	**F**	**F**	E
15	Driveway 5 & Schaefer Av.	CSS	Future Intersection				9.5	11.5	A	B	E
16	Driveway 6 & Schaefer Av.	CSS	Future Intersection				9.9	12.5	A	B	E
17	Driveway 7 & Schaefer Av.	CSS	Future Intersection				9.4	11.5	A	B	E
18	Driveway 8 & Edison Av.	CSS	Future Intersection				26.3	21.5	D	C	E
19	Driveway 9 & Edison Av.	CSS	Future Intersection				**>100.0**	**>200.0**	**F**	**F**	E
20	Driveway 10 & Edison Av.	CSS	Future Intersection				19.8	18.2	C	C	E
21	Sultana Av. & Schaefer Av.	TS[3]	Future Intersection				11.3	10.9	B	B	E
22	Sultana Av. & Driveway 11	CSS	Future Intersection				8.6	8.6	A	A	E
23	Sultana Av. & Driveway 12	CSS	Future Intersection				8.7	8.8	A	A	E
24	Sultana Av. & Driveway 13	CSS	Future Intersection				8.6	8.7	A	A	E
25	Sultana Av. & Driveway 14	CSS	Future Intersection				8.4	8.6	A	A	E
26	Sultana Av. & Driveway 15	CSS	Future Intersection				8.5	8.7	A	A	E
27	Sultana Av. & Driveway 16	CSS	Future Intersection				8.5	8.8	A	A	E
28	Sultana Av. & Driveway 17	CSS	Future Intersection				8.6	8.9	A	A	E
29	Sultana Av. & Edison Av.	TS[3]	Future Intersection				13.0	10.5	B	B	E
30	Bon View Av. & Schaefer Av.	AWS	19.6	45.4	C	E	21.7	**51.8**	C	**F**	E
31	Bon View Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	E
32	Grove Av. & Schaefer Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	E
33	Grove Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	E
34	Walker Av. & Edison Av.	AWS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	E
35	Vineyard Av. & Edison Av.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	E
36	Hellman Av. & Edison Av.	CSS	**>100.0**	**>100.0**	**F**	**F**	**>100.0**	**>100.0**	**F**	**F**	E
37	Archibald Av. & Edison Av.	TS	**>200.0**	**>200.0**	**F**	**F**	**>200.0**	**>200.0**	**F**	**F**	E
38	Turner Av. & Ontario Ranch Rd.	TS	66.5	60.3	E	E	**81.9**	77.1	**F**	E	E
39	Haven Av. & Ontario Ranch Rd.	TS	**130.8**	**>200.0**	**F**	**F**	**159.0**	**>200.0**	**F**	**F**	E
40	Hamner Av. & Ontario Ranch Rd.	TS	**159.7**	**>200.0**	**F**	**F**	**173.0**	**>200.0**	**F**	**F**	D
41	I-15 SB Ramps & Cantu Galleano Ranch Rd.	TS	40.7	39.9	D	D	52.0	48.5	D	D	D
42	I-15 NB Ramps & Cantu Galleano Ranch Rd.	TS	19.8	48.5	B	D	20.7	54.9	C	D	D

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for interse with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service fc worst individual movement (or movements sharing a single lane) are shown. HCM delay reported in seconds.

[2] TS = Traffic Signal; AWS = All-way Stop; CSS = Cross-street Stop

[3] A traffic signal has been evaluated for this intersection for Horizon Year conditions only, per the request of the City of Ontario.

- Euclid Avenue (SR-83) & Eucalyptus Avenue (#12) – LOS F AM peak hour only
- Euclid Avenue (SR-83) & Merrill Avenue (#13) – LOS F AM and PM peak hours
- Euclid Avenue (SR-83) & Merrill Avenue (#14) – LOS F AM and PM peak hours
- Bon View Avenue & Edison Avenue (#31) – LOS F AM and PM peak hours
- Grove Avenue & Schaefer Avenue (#32) – LOS F AM and PM peak hours
- Grove Avenue & Edison Avenue (#33) – LOS F AM and PM peak hours
- Walker Avenue & Edison Avenue (#34) – LOS F AM and PM peak hours
- Vineyard Avenue & Edison Avenue (#35) – LOS F AM and PM peak hours
- Hellman Avenue & Edison Avenue (#36) – LOS F AM and PM peak hours
- Archibald Avenue & Edison Avenue (#37) – LOS F AM and PM peak hours
- Haven Avenue & Ontario Ranch Road (#39) – LOS F AM and PM peak hours
- Hamner Avenue & Ontario Ranch Road (#40) – LOS F AM and PM peak hours

As shown on Table 7-1, the following additional study area intersections are anticipated to operate at an unacceptable LOS with the addition of the Project traffic, in addition to those identified under Horizon Year (2050) Without Project traffic conditions:

- Driveway 9 & Edison Avenue (#19) – LOS F AM and PM peak hours
- Bon View Avenue & Schaefer Avenue (#30) – LOS F PM peak hour only
- Turner Avenue & Ontario Ranch Road (#38) – LOS F AM peak hour only

The intersection operations analysis worksheets for Horizon Year (2050) Without Project and With Project traffic conditions are included in Appendices 7.1 and 7.2, respectively.

7.5 TRAFFIC SIGNAL WARRANTS ANALYSIS

The following study area intersections are anticipated to meet planning level (ADT) volume-based traffic signal warrants for Horizon Year (2050) Without Project traffic conditions (see Appendix 7.3), in addition to those previously warranted under Existing, E+P, and Opening Year Cumulative traffic conditions:

- Vineyard Av. & Edison Av. (#35)
- Hellman Av. & Edison Av. (#36)

The following study area intersection is anticipated to meet planning level (ADT) volume-based traffic signal warrant for Horizon Year (2050) With Project traffic conditions (see Appendix 7.4), in addition to those previously warranted under Horizon Year (2050) Without Project traffic conditions:

- Driveway 9 & Edison Av. (#19)

7.6 OFF-RAMP QUEUING ANALYSIS

Queuing analysis findings for Horizon Year (2050) traffic conditions are presented in Table 7-2. As shown in Table 7-2, the following movements are anticipated to experience queuing issues during the weekday AM or weekday PM peak 95th percentile traffic flows:

- Euclid Av. & SR-60 EB Ramps, EBL/R – AM peak hour only

Worksheets for Horizon Year (2050) Without Project and With Project traffic conditions queuing analysis are provided in Appendices 7.5 and 7.6, respectively.

TABLE 7-2: PEAK HOUR OFF-RAMP QUEUING SUMMARY FOR HORIZON YEAR (2050) CONDITIONS

			2050 Without Project				2050 With Project			
		Available Stacking Distance	95th Percentile Queue (Feet)		Acceptable? [1]		95th Percentile Queue (Feet)		Acceptable? [1]	
Intersection	Movement	(Feet)	AM Peak	PM Peak	AM	PM	AM Peak	PM Peak	AM	PM
Euclid Av. & SR-60 WB Ramps	WBL	350	640 [2,3]	586 [2,3]	Yes	Yes	675 [2,3]	614 [2,3]	Yes	Yes
	WBL/T/R	1,415	690 [2]	626 [2]	Yes	Yes	726 [2]	654 [2]	Yes	Yes
	WBR	350	501 [2,3]	427 [2,3]	Yes	Yes	501 [2,3]	428 [2,3]	Yes	Yes
Euclid Av. & SR-60 EB Ramps	EBL	900	646 [2]	337	Yes	Yes	646 [2]	337	Yes	Yes
	EBL/R	1,290	**1,842** [2]	986 [2,3]	**No**	Yes	**1,920** [2]	1,074 [2]	**No**	Yes
I-15 SB Ramps & Cantu Galleano Ranch Rd.	SBL	1,435	120	193	Yes	Yes	120	193	Yes	Yes
	SBL/R	550	1,145 [2,3]	1,096 [2,3]	Yes	Yes	1,192 [2,3]	1,124 [2,3]	Yes	Yes
	SBR	455	1,068 [2,3]	1,004 [2,3]	Yes	Yes	1,114 [2,3]	1,033 [2,3]	Yes	Yes
I-15 NB Ramps & Cantu Galleano Ranch Rd.	NBL	1,615	538 [2]	803 [2]	Yes	Yes	566 [2]	830 [2]	Yes	Yes
	NBL/R	585	101	112	Yes	Yes	103	115	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

[3] Although 95th percentile queue is anticipated to exceed the available storage for the turn lane, the adjacent through lane has sufficient storage to accommodate any spillover without spilling back and affecting the SR-60 and I-15 Freeway mainline.

7.7 PROJECT DEFICIENCIES AND RECOMMENDED IMPROVEMENTS

Improvements needed to achieve acceptable LOS have been identified at intersections or off-ramps that are anticipated to operate at a deficient LOS under Horizon Year (2050) traffic conditions.

7.7.1 IMPROVEMENTS TO ADDRESS DEFICIENCIES AT INTERSECTIONS

Improvement strategies have been recommended at intersections that have been identified as deficient under Horizon Year (2050) traffic conditions in an effort to achieve an acceptable LOS. The effectiveness of the recommended improvement strategies to address Horizon Year (2050) traffic deficiencies are presented in Table 7-3. Worksheets for Horizon Year (2050) Without Project and With Project traffic conditions, with improvements, HCM calculation worksheets are provided in Appendices 7.7 and 7.8, respectively.

TABLE 7-3: HORIZON YEAR (2045) CONDITIONS INTERSECTION OPERATIONS ANALYSIS WITH IMPROVEMENTS (1 OF 2)

	Traffic Control[3]	Intersection Approach Lanes[1] Northbound L	T	R	Southbound L	T	R	Eastbound L	T	R	Westbound L	T	R	Delay[2] (secs.) AM	PM	Level of Service AM	PM	Acceptable LOS
1 Euclid Av. (SR-83) & SR-60 WB Ramps																		
Without Project:	TS	**2**	2	0	0	**3**	0	0	0	0	1	1	1	32.2	46.8	C	D	D
With Project:	TS	**2**	2	0	0	**3**	0	0	0	0	1	1	1	34.1	52.6	C	D	
2 Euclid Av. (SR-83) & SR-60 EB Ramps																		
Without Project:	TS	0	2	1	**2**	2	0	1	1	**1**	0	0	0	29.2	43.2	C	D	D
With Project:	TS	0	2	1	**2**	2	0	1	1	**1**	0	0	0	29.8	50.1	C	D	
4 Euclid Av. (SR-83) & Riverside Dr.																		
Without Project:	TS	**2**	**3**	**1**	**2**	**3**	1>	1	**2**	**1**	1	2	d	77.7	63.9	E	E	E
With Project:	TS	**2**	**3**	**1**	**2**	**3**	1>	1	**2**	**1**	1	2	d	79.4	71.6	E	E	
5 Euclid Av. (SR-83) & Chino Av.																		
Without Project:	TS	1	**3**	1	1	**3**	1	1	1	1	**1**	1	0	46.5	65.8	D	E	E
With Project:	TS	1	**3**	1	1	**3**	1	1	1	1	**1**	1	0	47.7	68.6	D	E	
6 Euclid Av. (SR-83) & Schaefer Av.																		
Without Project:	TS	**2**	**3**	1	**2**	**3**	1	**2**	1	1	1	1	0	27.1	68.6	C	E	E
With Project:	TS	**2**	**3**	1	**2**	**3**	1	**2**	1	1	1	1	0	29.9	68.7	C	E	
11 Euclid Av. (SR-83) & Edison Av.																		
Without Project:	TS	**2**	**3**	1	**2**	**3**	**1>**	**2**	**3**	1	**2**	**2**	**1>**	65.1	45.1	E	D	E
With Project:	TS	**2**	**3**	1	**2**	**3**	**1>**	**2**	**3**	1	**2**	**2**	**1>**	77.9	54.5	E	D	
12 Euclid Av. (SR-83) & Eucalyptus Av.																		
Without Project:	TS	1	**3**	1	1	**3**	1	1	1	1	**2**	1	**1**	26.3	23.6	C	C	E
With Project:	TS	1	**3**	1	1	**3**	1	1	1	1	**2**	1	**1**	27.0	24.3	C	C	
13 Euclid Av. (SR-83) & Merrill Av.																		
Without Project:	TS	1	**3**	**1>**	**2**	**3**	0	**1**	1	0	**2**	1	**1>**	58.3	43.2	E	D	E
With Project:	TS	1	**3**	**1>**	**2**	**3**	0	**1**	1	0	**2**	1	**1>**	62.9	46.4	E	D	
14 Euclid Av. (SR-83) & Kimball Av.																		
Without Project:	TS	1	**3**	1>	2	**3**	1>	2	2	1	2	2	1>	63.4	72.0	E	E	E
With Project:	TS	1	**3**	1>	2	**3**	1>	2	2	1	2	2	1>	69.3	74.8	E	E	
19 Driveway 9 & Edison Av.																		
Without Project:														Future Intersection				E
With Project:	**TS**	0	0	0	0	1	0	1	1	0	0	1	0	28.9	12.8	C	B	
29 Sultana Av. & Edison Av.																		
Without Project:														Future Intersection				E
With Project:	CSS	0	0	0	**1**	0	**1**	1	1	0	0	1	0	34.7	49.2	D	E	
30 Bon View Av. & Schaefer Av.																		
Without Project:	AWS	0	1	0	0	1	0	0	1	0	0	1	0	19.6	45.4	C	E	E
With Project:	**TS**	0	1	0	0	1	0	0	1	0	0	1	0	7.4	8.6	A	A	
31 Bon View Av. & Edison Av.																		
Without Project:	**TS**	**1**	1	0	**1**	1	0	**1**	**3**	0	**1**	**3**	0	16.8	12.3	B	B	E
With Project:	**TS**	**1**	1	0	**1**	1	0	**1**	**3**	0	**1**	**3**	0	19.1	13.5	B	B	
32 Grove Av. & Schaefer Av.																		
Without Project:	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	**2**	0	**1**	**2**	0	7.0	9.2	A	A	E
With Project:	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	**2**	0	**1**	**2**	0	7.1	9.5	A	A	
33 Grove Av. & Edison Av.																		
Without Project:	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	**3**	0	**1**	**3**	0	29.7	64.3	C	E	E
With Project:	**TS**	**1**	**2**	0	**1**	**2**	0	**1**	**3**	0	**1**	**3**	0	38.5	74.5	D	E	

TABLE 7-3: HORIZON YEAR (2045) CONDITIONS INTERSECTION OPERATIONS ANALYSIS WITH IMPROVEMENTS (2 OF 2)

34 Walker Av. & Edison Av.																		
Without Project:	**TS**	**1**	1	0	**1**	1	0	**1**	**4**	0	**1**	**4**	0	32.1	50.8	C	D	E
With Project:	**TS**	**1**	1	0	**1**	1	0	**1**	**4**	0	**1**	**4**	0	34.2	70.8	C	E	
35 Vineyard Av. & Edison Av.																		
Without Project:	**TS**	**1**	**1**	0	**1**	**1**	0	**1**	**3**	0	**1**	**3**	0	22.1	13.8	C	B	E
With Project:	**TS**	**1**	**1**	0	**1**	**1**	0	**1**	**3**	0	**1**	**3**	0	25.6	15.2	C	B	
36 Hellman Av. & Edison Av.																		
Without Project:	**TS**	**1**	**1**	0	**1**	**1**	0	**1**	**3**	0	**1**	**3**	0	40.6	74.0	D	E	E
With Project:	**TS**	**1**	**1**	0	**1**	**1**	0	**1**	**3**	0	**1**	**3**	0	51.2	77.9	D	E	
37 Archibald Av. & Edison Av.																		
Without Project:	TS	**2**	**3**	1>>	**2**	**3**	**1>**	2	**4**	1>>	2	**4**	1	53.9	56.6	D	E	E
With Project:	TS	**2**	**3**	1>>	**2**	**3**	**1>**	2	**4**	1>>	2	**4**	1	60.6	62.9	E	E	
38 Turner Av. & Ontario Ranch Rd.																		
Without Project:	TS	1	1	0	1	1	0	1	**3**	1	1	**3**	1	34.8	21.6	C	C	E
With Project:	TS	1	1	0	1	1	0	1	**3**	1	1	**3**	1	39.2	23.0	D	C	
39 Haven Av. & Ontario Ranch Rd.																		
Without Project:	TS	1	**2**	1	1	**2**	1	1	3	1	1	3	1	57.4	71.8	E	E	E
With Project:	TS	1	**2**	1	1	**2**	1	1	3	1	1	3	1	70.4	73.3	E	E	
40 Hamner Av. & Ontario Ranch Rd.																		
Without Project:	TS	2	3	**1>**	2	**3**	**0**	2	4	**1>**	2	**3**	1	43.5	43.4	D	D	D
With Project:	TS	2	3	**1>**	2	**3**	**0**	2	4	**1>**	2	**3**	1	46.0	46.7	D	D	

* **BOLD** = Level of Service (LOS) does not meet the applicable jurisdictional requirements (i.e., unacceptable LOS).

[1] When a right turn is designated, the lane can either be striped or unstriped. To function as a right turn lane there must be sufficient width for right turning vehicles to travel outside the through lanes.

L = Left; T = Through; R = Right; **1** = Improvement

[2] Per the Highway Capacity Manual (6th Edition), overall average intersection delay and level of service are shown for intersections with a traffic signal or all way stop control. For intersections with cross street stop control, the delay and level of service for the worst individual movement (or movements sharing a single lane) are shown.

[3] AWS = All-way Stop; CSS = Cross-street Stop; TS = Traffic Signal; **TS** = Traffic Signal

7.7.2 IMPROVEMENTS TO ADDRESS DEFICIENCIES ON OFF-RAMP QUEUES

Improvement strategies have been recommended at study area off-ramps that have been identified as deficient under Horizon Year (2050) traffic conditions and are shown in Table 7-4. The improvements are consistent with the intersection improvements identified in Table 7-3. Worksheets for Horizon Year (2050) conditions, with improvements, off-ramp queuing analysis worksheets are provided in Appendices 7.9 and 7.10, respectively.

TABLE 7-4: PEAK HOUR QUEUING SUMMARY FOR HORIZON YEAR (2045) CONDITIONS WITH IMPROVEMENTS

			2050 Without Project				2050 With Project			
		Available Stacking Distance	95th Percentile Queue (Feet)		Acceptable? [1]		95th Percentile Queue (Feet)		Acceptable? [1]	
Intersection	Movement	(Feet)	AM Peak	PM Peak	AM	PM	AM Peak	PM Peak	AM	PM
Euclid Av. & SR-60 EB Ramps	EBL	900	561 [2]	337	Yes	Yes	561 [2]	337	Yes	Yes
	EBL/R	1,290	775 [2]	406 [2]	Yes	Yes	815 [2]	452 [2]	Yes	Yes

[1] Stacking Distance is acceptable if the required stacking distance is less than or equal to the stacking distance provided. An additional 15 feet of stacking which is assumed to be provided in the transition for turn pockets is reflected in the stacking distance shown on this table, where applicable.

[2] 95th percentile volume exceeds capacity, queue may be longer. Queue shown is maximum after two cycles.

8 LOCAL AND REGIONAL FUNDING MECHANISMS

Transportation improvements within the City of Ontario are funded through a combination of construction of improvements, development impact fee programs or fair share contributions, such as the City of Ontario Development Impact Fee (DIF) program. Identification and timing of needed improvements is generally determined through local jurisdictions based upon a variety of factors.

8.1 CITY OF ONTARIO DEVELOPMENT IMPACT FEE PROGRAM

The City of Ontario has created its own local DIF program to impose and collect fees from new residential, commercial, and industrial development for the purpose of funding roadways and intersections necessary to accommodate City growth as identified in the City's General Plan Circulation Element. The City's DIF includes regional improvements to comply with Measure "I." The fee schedule was last updated in January 2020 and is reviewed/adjusted annually based upon changes in the construction cost index (CCI). Under the City's DIF program, the City may grant to developers a credit against specific components of fees when those developers construct certain facilities and landscaped medians identified in the list of improvements funded by the DIF program.

The timing to use the DIF fees is established through periodic capital improvement programs which are overseen by the City's Public Works Department. Periodic traffic counts, review of traffic accidents, and a review of traffic trends throughout the City are also periodically performed by City staff and consultants. The City uses this data to determine the timing of implementing the improvements listed in its facilities list. The City also uses this data to ensure that the improvements listed on the facilities list are constructed before the LOS falls below the LOS performance standards adopted by the City. In this way, the improvements are constructed before the LOS falls below the City's LOS performance thresholds.

The Project Applicant will be subject to the City's DIF fee program and will pay the requisite City DIF fees at the rates then in effect pursuant to the City's ordinance. The Project Applicant's payment of the requisite DIF at the rates then in effect, pursuant to the City DIF Program, would satisfy the Project's proportional improvement requirements at potentially affected DIF-funded facilities.

8.2 MEASURE "I" FUNDS

In 2004, the voters of San Bernardino County approved the 30-year extension of Measure "I," a one-half of one percent sales tax on retail transactions, through the year 2050, for transportation projects including, but not limited to, infrastructure improvements, commuter rail, public transit, and other identified improvements. The Measure "I" extension requires that a regional traffic impact fee be created to ensure development is paying its fair share. A regional Nexus study was prepared by SBCTA and concluded that each jurisdiction should include a regional fee component in their local programs in order to meet the Measure "I" requirement. The regional component assigns specific facilities and cost sharing formulas to each jurisdiction and was most recently updated in November 2011. Revenues collected through these programs are used in tandem with Measure "I" funds to deliver projects identified in the Nexus Study. While Measure "I" is a self-executing sales tax administered by SBCTA, it bears discussion here because the funds raised through Measure "I" have funded in the past and will continue to fund new transportation facilities in San Bernardino County.

TABLE 8-1: ESTIMATED FEE OBLIGATION

Fee Reference	$ PER UNIT
Business Park Uses	$5.824
Industrial Uses	$3.002

Source: City of Ontario General City (GC) Development Impact Fees (DIF), effective January 1, 2020.

Fee Calculation Program	Category	Unit Cost	Units	Local Circulation
Streets, Signals and Bridges	Business Park Uses	$5.824	191,378	$1,114,585
Streets, Signals and Bridges	Industrial Uses	$3.002	809,217	$2,429,269
			Total Transportation Impact Fees	**$3,543,855**

8.3 FAIR SHARE CONTRIBUTION

Project improvement may include a combination of fee payments to established programs, construction of specific improvements, payment of a fair share contribution toward future improvements or a combination of these approaches. Improvements constructed by development may be eligible for a fee credit or reimbursement through the program where appropriate (to be determined at the City's discretion).

When off-site improvements are identified with a minor share of responsibility assigned to proposed development, the approving jurisdiction may elect to collect a fair share contribution or require the development to construct improvements. Detailed fair share calculations, for each peak hour, has been provided in Table 8-2 for the applicable deficient study area intersections.

These fees are collected with the proceeds solely used as part of a funding mechanism aimed at ensuring that regional highways and arterial expansions keep pace with the projected population increases.

TABLE 8-2: PROJECT FAIR SHARE CALCULATIONS (1 OF 2)

#	Intersection		Existing (2022)	Project Buildout	2045 With Project[2]	Total New Traffic	Project % of New Traffic[4]
1	Euclid Av. (SR-83) & SR-60 WB Ramps						
		AM:	3,348	28	5,508	2,160	1.3%
		PM:	3,403	34	5,989	2,586	**1.3%**
2	Euclid Av. (SR-83) & SR-60 EB Ramps						
		AM:	3,713	51	6,092	2,379	2.1%
		PM:	3,330	62	5,901	2,571	**2.4%**
4	Euclid Av. (SR-83) & Riverside Dr.						
		AM:	3,541	59	6,953	3,412	1.7%
		PM:	3,342	70	7,254	3,912	**1.8%**
5	Euclid Av. (SR-83) & Chino Av.						
		AM:	2,931	58	6,256	3,325	1.7%
		PM:	2,926	71	6,251	3,325	**2.1%**
6	Euclid Av. (SR-83) & Schaefer Av.						
		AM:	2,370	78	5,653	3,283	2.4%
		PM:	2,675	121	5,899	3,224	**3.8%**
11	Euclid Av. (SR-83) & Edison Av.						
		AM:	2,851	88	7,638	4,787	1.8%
		PM:	2,832	82	7,260	4,428	**1.9%**
12	Euclid Av. (SR-83) & Eucalyptus Av.						
		AM:	2,355	46	4,501	2,146	**2.1%**
		PM:	2,597	34	5,150	2,553	1.3%
13	Euclid Av. (SR-83) & Merrill Av.						
		AM:	2,459	27	5,180	2,721	1.0%
		PM:	2,631	33	5,673	3,042	**1.1%**
14	Euclid Av. (SR-83) & Kimball Av.						
		AM:	3,365	28	6,052	2,687	**1.0%**
		PM:	3,575	33	6,742	3,167	1.0%
19	Driveway 9 & Edison Av.						
		AM:	847	35	2,204	1,357	**2.6%**
		PM:	821	34	2,145	1,324	2.6%
29	Sultana Av. & Edison Av.						
		AM:	847	118	2,021	1,174	10.1%
		PM:	821	126	2,054	1,233	**10.2%**
30	Bon View Av. & Schaefer Av.						
		AM:	753	20	1,094	341	**5.9%**
		PM:	848	21	1,278	430	4.9%
31	Bon View Av. & Edison Av.						
		AM:	979	113	4,060	3,081	3.7%
		PM:	1,059	119	4,039	2,980	**4.0%**
32	Grove Av. & Schaefer Av.						
		AM:	1,080	16	2,018	938	**1.7%**
		PM:	1,056	15	2,284	1,228	1.2%

TABLE 8-2: PROJECT FAIR SHARE CALCULATIONS (2 OF 2)

33	Grove Av. & Edison Av.						
		AM:	1,284	113	5,319	4,035	2.8%
		PM:	1,315	119	5,465	4,150	**2.9%**
34	Walker Av. & Edison Av.						
		AM:	1,140	98	5,355	4,215	2.3%
		PM:	1,276	104	5,248	3,972	**2.6%**
35	Vineyard Av. & Edison Av.						
		AM:	0	96	4,913	4,913	2.0%
		PM:	0	102	5,191	5,191	**2.0%**
36	Hellman Av. & Edison Av.						
		AM:	0	95	5,071	5,071	**1.9%**
		PM:	0	101	5,677	5,677	1.8%
37	Archibald Av. & Edison Av.						
		AM:	3,029	96	7,438	4,409	**2.2%**
		PM:	3,482	102	9,213	5,731	1.8%
38	Turner Av. & Ontario Ranch Rd.						
		AM:	1,611	80	4,670	3,059	**2.6%**
		PM:	1,828	87	5,381	3,553	2.4%
39	Haven Av. & Ontario Ranch Rd.						
		AM:	2,285	77	5,538	3,253	**2.4%**
		PM:	2,800	84	6,554	3,754	2.2%
40	Hamner Av. & Ontario Ranch Rd.						
		AM:	3,391	73	7,569	4,178	**1.7%**
		PM:	4,016	80	9,122	5,106	1.6%

[1] **BOLD =** Highest fair share percentage is highlighted.

[2] For intersections where the Horizon Year project only volumes are negative, the opening year cumulative volumes have been utilized.

9 REFERENCES

1. **County of San Bernardino.** *Transportation Impact Study Guidelines.* County of San Bernardino : s.n., July 2019.
2. **Institute of Transportation Engineers.** *Trip Generation Manual.* 11th Edition. 2021.
3. **San Bernardino Associated Governments.** *Congestion Management Program for County of San Bernardino.* County of San Bernardino : s.n., Updated June 2016.
4. **Transportation Research Board.** *Highway Capacity Manual (HCM).* 6th Edition. s.l. : National Academy of Sciences, 2016.
5. **California Department of Transportation.** California Manual on Uniform Traffic Control Devices (CA MUTCD). [book auth.] California Department of Transportation. *California Manual on Uniform Traffic Control Devices (CA MUTCD).* 2014, Updated March 30, 2021 (Revision 6).
6. **The Planning Center for The City of Ontario.** *The Ontario Plan Environmental Impact Report.* Ontario : s.n., July 2009.
7. **The City of Eastvale.** *Adopted Genreal Plan.* Eastvale : s.n., June 13, 2012.
8. **The City of Chino.** *Envision Chino General Plan 2025.* Chino : s.n., July 2010.
9. **California Department of Transportation.** *Guide for the Preparation of Traffic Impact Studies.* December 2002.
10. **Institute of Transportation Engineers.** *Trip Generation Manual.* 11th Edition. 2021.

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APPENDIX 1.1: TRAFFIC STUDY SCOPING AGREEMENT

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October 24, 2022

Mr. Jay Bautista
City of Ontario
303 E. B Street
Ontario, CA 91764

EUCLID MIXED-USE SPECIFIC PLAN TRAFFIC STUDY SCOPING AGREEMENT

Mr. Jay Bautista,

Urban Crossroads, Inc. has prepared the following assessment for the proposed Euclid Mixed-Use Specific Plan development (**Project**) to establish a traffic analysis (**TA**) scope of work. The Project is bounded by Euclid Avenue (SR-83) to the west, Schaefer Avenue to the north, Ontario Ranch Road/Edison Avenue to the south, and Sultana Avenue to the east within the City of Ontario. The following memo outlines the project-related trip generation, trip distribution patterns, proposed study area and analysis scenarios expected to be included in the Project traffic analysis.

PROJECT DESCRIPTION

Exhibit 1 illustrates the location map for the proposed Project and Exhibit 2 shows the preliminary site plan. The underlying land uses are consistent with the City's recently adopted The Ontario Plan (TOP) 2050. It is our understanding that the Project is to consist of the following uses:

1. Planning Area 1 (Business Park): 135,841 square feet of business park uses fronting Euclid Avenue (SR-83) and 399,135 square feet of warehousing use
2. Planning Area 2 (Business Park): 55,537 square feet of business park uses fronting Euclid Avenue (SR-83) and 450,784 square feet of warehousing use
3. Planning Area 3A (Business Park & Commercial Retail): 122,898 square feet of warehousing use and 30,225 square feet of commercial retail use (10,000 square feet of fast-food restaurant use without drive-through window, 10,000 square feet of fast-food restaurant with drive-through window, and 10,225 square feet of retail space)
4. Planning Area 3B (Multifamily Residential): 466 multifamily residential dwelling units
5. Planning Area 4 (Truck/Trailer Parking): 7.4 acres
6. Planning area 5 (Truck/Trailer Parking): 4.8 acres

Project Buildout is anticipated in Year 2027. Access to the proposed Project would be provided to the surrounding roadways of Schaefer Avenue to the north, Euclid Avenue (SR-83) to the west, Ontario Ranch Road/Edison Avenue to the south, and Sultana Avenue to the east.

Note that the area shown on Exhibit 2 as "Future Development" is not controlled by the Project Applicant.

EXHIBIT 1: LOCATION MAP

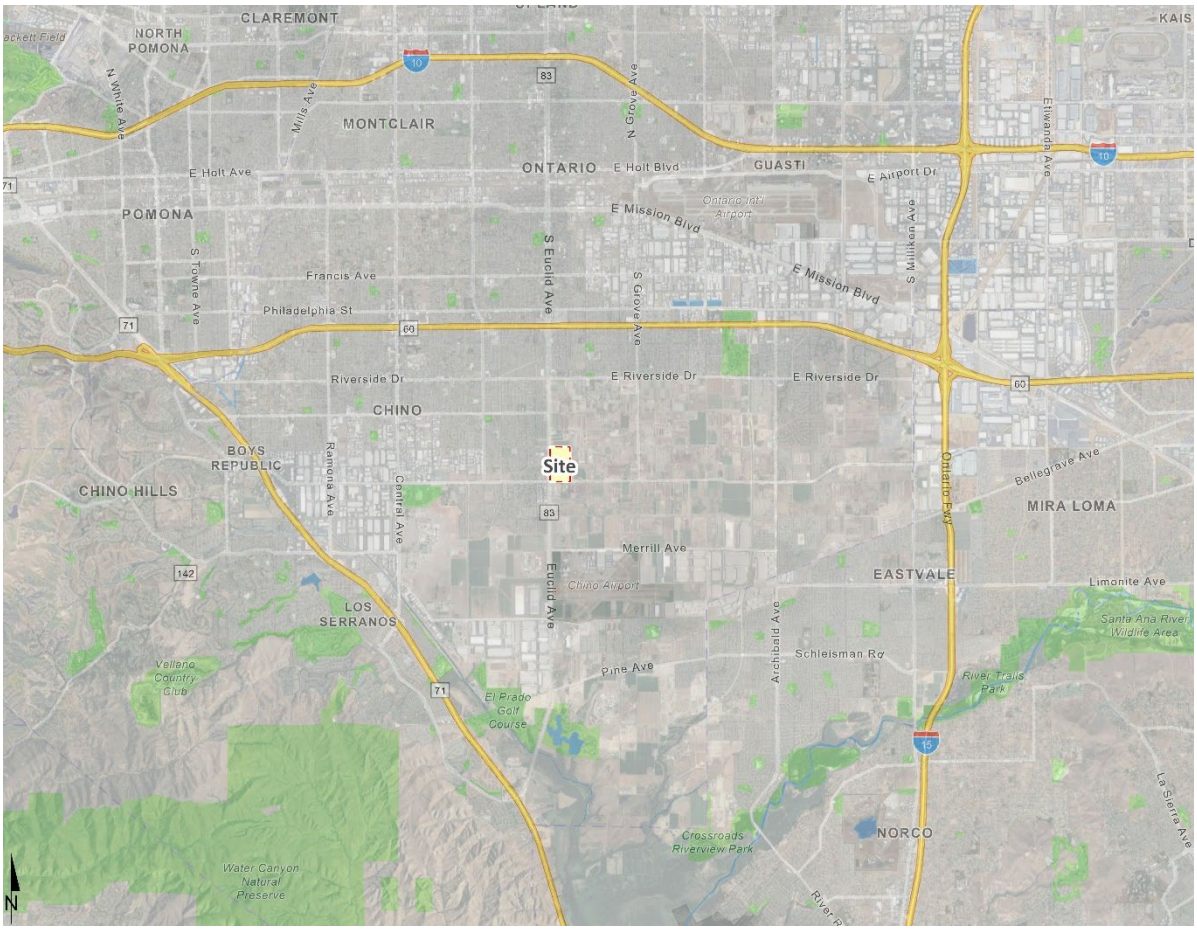


EXHIBIT 2: PRELIMINARY SITE PLAN



PROPOSED ANALYSIS SCENARIOS

The following analysis scenarios are proposed to be evaluated in the Traffic Study:

- Existing (2022)
- Existing plus Project
- Opening Year Cumulative (2027) Without Project
- Opening Year Cumulative (2027) With Project
- Horizon Year (2050) Without Project
- Horizon Year (2050) With Project

Horizon Year (2050) forecasts will be developed for the recently adopted TOP 2050 General Plan Update. Note that the area shown previously on Exhibit 2 as "Future Development" will only be evaluated for Existing plus Project (E+P) and Horizon Year (2050) traffic conditions only (not to be included for Opening Year Cumulative conditions).

EXISTING COUNT DATA

We are proposing to use new traffic counts for the study area intersections that were conducted earlier in 2022 while local schools were in session and will not apply any further adjustments in establishing the baseline as traffic counts would reflect the current conditions, including any foreseeable lasting effects due to the COVID-19 pandemic. Locations where recent counts are not available will be collected when local schools are in session and operating on normal schedules.

AMBIENT GROWTH

Future year traffic forecasts will be based upon a background (ambient) growth of 2% per year, compounded annually for five years. The growth factor for Opening Year Cumulative (2027) traffic conditions will be 10.41% (or $1.02^{5\ years}$).

TRIP GENERATION

Trip generation represents the amount of traffic which is both attracted to and produced by a development. Determining traffic generation for a specific project is therefore based upon forecasting the amount of traffic that is expected to be both attracted to and produced by the specific land uses being proposed for a given development. In order to develop the traffic characteristics of the proposed project, trip-generation statistics published in the Institute of Transportation Engineers (ITE) Trip Generation Manual (11^{th} Edition, 2021) and empirical data were used to estimate the trip generation. The following trip generation rate and vehicle mix were utilized for calculating the trip generation for the proposed Project:

- Based on the types of uses anticipated to be developed within the business park area, the trip generation rates for ITE land use code 130 (Industrial Park) have been used to derive site specific trip generation estimates for up to 191,378 square feet along the Euclid Avenue (SR-83) frontage. The vehicle mix has been obtained from the ITE's latest

Trip Generation Manual. The truck percentages were further broken down by axle type per the following South Coast Air Quality Management District (SCAQMD) recommended truck mix: 2-Axle = 16.7%; 3-Axle = 20.7%; 4+-Axle = 62.6%.

- ITE land use code 150 (Warehousing) has been used to derive site specific trip generation estimates for up to 972,817 square feet. A warehouse is primarily devoted to the storage of materials but may also include office and maintenance areas. The vehicle mix has been obtained from the ITE's Trip Generation Manual. The truck percentages were further broken down by axle type per the following SCAQMD recommended truck mix: 2-Axle = 16.7%; 3-Axle = 20.7%; 4+-Axle = 62.6%.
- ITE land use code 220 (Multifamily Low-Rise Residential) has been used to derive site specific trip generation estimates for up to 466 dwelling units.
- ITE land use code 822 (Strip Retail), ITE land use code 933 (Fast-Food Restaurant Without Drive-Through Window), and ITE land use code 934 (Fast-Food Restaurant With Drive-Through Window) have been used to derive site specific trip generation estimates for up to 30,225 square feet of commercial retail use.
- The ITE Trip Generation Manual does not currently have any trip generation rates for a truck/trailer parking lot, as such, trip generation estimates for the proposed project have been developed using data collected at other facilities with operations similar to those proposed. Table A-1 in Attachment A summarizes the count data collected at 2 existing facilities located at 5087 Patterson Avenue in the City of Perris and 14769 San Bernardino Avenue in the City of Fontana. The actual driveway counts have been attached to this assessment for each of these facilities in Attachment A. In other words, this traffic analysis will conservatively assume the truck/trailer parking lot will be an independent use that does not specifically serve the adjacent warehouse use.

Table A-2 in Attachment A shows the trip generation rates for each existing facility which have been developed by dividing the data collected at the sites by their respective total acreage as shown on Table A-1. The average trip rate has been calculated by averaging the 2 comparable sites. A passenger-car equivalent (PCE) of 1.5, 2.0, and 3.0 have been applied to 2-axle, 3-axle, and 4+-axle vehicles, consistent with the City's Guidelines. PCE rates were calculated by taking the actual vehicle trip generation rates and applying the PCE factors shown in Table A-2. PCE factors were applied to the trip generation rates for heavy trucks (large 2-axles, 3-axles, 4+-axles). PCEs allow the typical "real-world" mix of vehicle types to be represented as a single, standardized unit, such as the passenger car, to be used for the purposes of capacity and level of service analyses. The trip generation rates used for the Project are summarized on Table 1.

TABLE 1: TRIP GENERATION RATES

Land Use[1]	Units[2]	ITE LU Code	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicle Trip Generation Rates									
Warehousing[3]	TSF	150	0.131	0.039	0.170	0.050	0.130	0.180	1.710
Passenger Cars (AM-88.2%, PM-83.3%, Daily-64.9%)			0.120	0.030	0.150	0.034	0.116	0.150	1.110
2-Axle Trucks (AM-1.97%, PM-2.79%, Daily-5.86%)			0.002	0.001	0.003	0.003	0.002	0.005	0.100
3-Axle Trucks (AM-2.44%, PM-3.46%, Daily-7.27%)			0.002	0.002	0.004	0.003	0.003	0.006	0.124
4+-Axle Trucks (AM-7.39%, PM-10.45%, Daily-21.97%)			0.007	0.006	0.013	0.010	0.009	0.019	0.376
Industrial Park[3]	TSF	130	0.275	0.065	0.340	0.075	0.265	0.340	3.370
Passenger Cars (AM=88.2%, PM=88.2%, Daily=83.1%)			0.257	0.043	0.300	0.060	0.240	0.300	2.800
2-Axle Trucks (AM=2.0%, PM=2.0%, Daily=2.8%)			0.003	0.004	0.007	0.003	0.004	0.007	0.095
3-Axle Trucks (AM=2.4%, PM=2.4%, Daily=3.5%)			0.004	0.005	0.008	0.003	0.005	0.008	0.118
4+-Axle Trucks (AM=7.4%, PM=7.4%, Daily=10.6%)			0.011	0.014	0.025	0.010	0.016	0.025	0.357
Trailer Yard[4]	Acres	--	0.227	0.222	0.449	0.111	0.111	0.222	5.586
Passenger Cars			0.000	0.556	0.556	0.333	0.000	0.333	4.000
2-Axle Trucks			0.111	0.047	0.159	0.111	0.000	0.111	6.268
3-Axle Trucks			0.111	0.000	0.111	0.000	0.333	0.333	8.717
4+-Axle Trucks			0.003	0.000	0.003	0.000	0.009	0.009	0.281
Multifamily (Low-Rise) Residential	DU	220	0.10	0.30	0.40	0.32	0.19	0.51	6.74
Strip Retail (<40,000 SF)	TSF	822	1.42	0.94	2.36	3.30	3.29	6.59	54.45
Fast-Food Without Drive-Through Window	TSF	933	25.04	18.14	43.18	16.61	16.60	33.21	450.49
Fast-Food With Drive-Through Window	TSF	934	22.751	21.859	44.610	17.176	15.854	33.030	467.480
Passenger Car Equivalent (PCE) Trip Generation Rates[6]									
Warehousing[3]	TSF	150	0.131	0.039	0.170	0.050	0.130	0.180	1.710
Passenger Cars			0.120	0.030	0.150	0.034	0.116	0.150	1.110
2-Axle Trucks (PCE = 1.5)			0.003	0.002	0.005	0.005	0.003	0.008	0.150
3-Axle Trucks (PCE = 2.0)			0.004	0.004	0.008	0.006	0.006	0.012	0.248
4+-Axle Trucks (PCE = 3.0)			0.021	0.017	0.038	0.030	0.026	0.056	1.127
Industrial Park[3]	TSF	130	0.275	0.065	0.340	0.075	0.265	0.340	3.370
Passenger Cars			0.257	0.043	0.300	0.060	0.240	0.300	2.800
2-Axle Trucks (PCE = 1.5)			0.005	0.006	0.010	0.004	0.006	0.010	0.143
3-Axle Trucks (PCE = 2.0)			0.007	0.009	0.017	0.006	0.010	0.017	0.236
4+-Axle Trucks (PCE = 3.0)			0.034	0.041	0.075	0.029	0.047	0.075	1.070
Trailer Yard[4]	Acres	--	0.227	0.222	0.449	0.111	0.111	0.222	5.586
Passenger Cars			0.000	0.556	0.556	0.333	0.000	0.333	4.000
2-Axle Trucks (PCE = 1.5)			0.167	0.071	0.238	0.167	0.000	0.167	9.402
3-Axle Trucks (PCE = 2.0)			0.222	0.000	0.222	0.000	0.667	0.667	17.434
4+-Axle Trucks (PCE = 3.0)			0.009	0.000	0.009	0.000	0.028	0.028	0.844

[1] Trip Generation & Vehicle Mix Source: Institute of Transportation Engineers (ITE), Trip Generation Manual, Eleventh Edition (2021).

[2] TSF = thousand square feet; DU - Dwelling Units

[3] Truck Mix: South Coast Air Quality Management District's (SCAQMD) recommended truck mix, by axle type.
Normalized % - Without Cold Storage: 16.7% 2-Axle trucks, 20.7% 3-Axle trucks, 62.6% 4-Axle trucks.

[4] Trip generation rates based on empirical data of existing surveyed sites.

As the Project is proposed to include retail and restaurant uses, pass-by percentages have been obtained from the ITE Trip Generation Manual. Pass-by trips account for trips that are currently on the existing roadway network that would stop by uses within the proposed Project on their way to their ultimate destination. Patrons of the uses may also visit other uses on-site, including the restaurants, and retail uses, without leaving the site.

Internal capture is a percentage reduction that can be applied to the trip generation estimates for individual land uses to account for trips internal to the site. In other words, trips may be made between individual retail uses on-site and can be made either by walking or using internal roadways without using external streets. An internal capture reduction was applied to recognize the interactions that would occur between the various complementary land uses (residential, retail, and restaurant uses). The internal capture is based on the National Cooperative Highway Research Program's (NCHRP Report 684) internal capture trip capture estimation tool. These internal capture worksheets are attached to this scoping agreement (see Attachment B).

The Project trip generation summary is shown on Table 2 in actual vehicles. The proposed Project is anticipated to generate a total of 8,820 two-way trips per day with 864 AM peak hour trips and 732 PM peak hour trips (actual vehicles). Per the City's Guidelines, any operations analysis is to utilize the PCE trip generation. As shown on Table 3, the Project is anticipated to generate a total of 10,042 two-way PCE trips per day with 907 AM PCE peak hour trips and 792 PM PCE peak hour trips.

TABLE 2: PROJECT TRIP GENERATION SUMMARY (ACTUAL VEHICLES)

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicles:									
Truck/Trailer Parking Lot	12.2	Acres							
Passenger Cars:			0	7	7	4	0	4	50
2-axle Trucks:			1	1	2	1	0	1	76
3-axle Trucks:			1	0	1	0	4	4	106
4+-axle Trucks:			0	0	0	0	0	0	4
Total Truck Trips (Actual Vehicles):			2	1	3	1	4	5	186
Truck Parking Lot Total Trips (Actual Vehicles)[2]			**2**	**8**	**10**	**5**	**4**	**9**	**236**
Warehousing	972.817	TSF							
Passenger Cars:			117	29	146	33	112	145	1,080
2-axle Trucks:			2	1	3	3	2	5	98
3-axle Trucks:			2	2	4	3	3	6	122
4+-axle Trucks:			7	5	12	10	9	19	366
Total Truck Trips (Actual Vehicles):			11	8	19	16	14	30	586
Warehousing Total Trips (Actual Vehicles)[2]			**128**	**37**	**165**	**49**	**126**	**175**	**1,666**
Business Park	191.378	TSF							
Passenger Cars:			49	8	57	11	46	57	536
2-axle Trucks:			1	1	2	0	1	1	18
3-axle Trucks:			1	1	2	1	1	2	24
4+-axle Trucks:			2	3	5	2	3	5	68
Total Truck Trips (Actual Vehicles):			4	5	9	3	5	8	110
Business Park Total Trips (Actual Vehicles)[2]			**53**	**13**	**66**	**14**	**51**	**65**	**646**
Multifamily (Low-Rise) Residential	466	DU	45	142	187	150	88	238	3,142
Internal Capture			-3	-29	-32	-33	-21	-54	-714
Residential Total Trips			**42**	**113**	**155**	**117**	**67**	**184**	**2,428**
Fast-food Without Drive-Through	10.000	TSF	250	181	431	166	166	332	4,506
Fast-food With Drive-Through	10.000	TSF	228	219	447	172	159	331	4,676
Internal Capture			-29	-3	-32	-28	-41	-69	-956
Pass-by Reduction (50% - AM; 55% - PM/Daily)			-199	-199	-398	-156	-156	-312	-4,524
Restaurant Total Trips			**250**	**198**	**448**	**154**	**128**	**282**	**3,702**
Strip Retail	10.225	TSF	14	10	24	34	34	68	558
Internal Capture			-2	-2	-4	-20	-19	-39	-322
Pass-by Reduction (40% - PM/Daily)			0	0	0	-6	-6	-12	-94
Retail Total Trips			**12**	**8**	**20**	**8**	**9**	**17**	**142**
Passenger Cars			470	363	833	327	362	689	7,938
Trucks			17	14	31	20	23	43	882
Total Trips (Actual Vehicles)[2]			**487**	**377**	**864**	**347**	**385**	**732**	**8,820**

[1] TSF = thousand square feet; DU = Dwelling Units

[2] Total Trips = Passenger Cars + Truck Trips.

TABLE 3: PROJECT TRIP GENERATION SUMMARY (PCE)

Land Use	Quantity	Units[1]	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
Actual Vehicles:									
Truck/Trailer Parking Lot	12.2	Acres							
Passenger Cars:			0	7	7	4	0	4	50
2-axle Trucks:			2	1	3	2	0	2	116
3-axle Trucks:			3	0	3	0	8	8	214
4+-axle Trucks:			0	0	0	0	0	0	10
Total Truck Trips (PCE):			5	1	6	2	8	10	340
Truck Parking Lot Total Trips (PCE)[2]			**5**	**8**	**13**	**6**	**8**	**14**	**390**
Warehousing	972.817	TSF							
Passenger Cars:			117	29	146	33	112	145	1,080
2-axle Trucks:			3	2	5	4	3	7	146
3-axle Trucks:			4	4	8	6	6	12	242
4+-axle Trucks:			20	16	36	29	26	55	1,096
Total Truck Trips (PCE):			27	22	49	39	35	74	1,484
Warehousing Total Trips (PCE)[2]			**144**	**51**	**195**	**72**	**147**	**219**	**2,564**
Business Park	191.378	TSF							
Passenger Cars:			49	8	57	11	46	57	536
2-axle Trucks:			1	1	2	1	1	2	28
3-axle Trucks:			1	2	3	1	2	3	46
4+-axle Trucks:			6	8	14	5	9	14	206
Total Truck Trips (PCE):			8	11	19	7	12	19	280
Business Park Total Trips (PCE)[2]			**57**	**19**	**76**	**18**	**58**	**76**	**816**
Multifamily (Low-Rise) Residential	466	DU	45	142	187	150	88	238	3,142
Internal Capture			-3	-29	-32	-33	-21	-54	-714
Residential Total Trips			**42**	**113**	**155**	**117**	**67**	**184**	**2,428**
Fast-food Without Drive-Through	10.000	TSF	250	181	431	166	166	332	4,506
Fast-food With Drive-Through	10.000	TSF	228	219	447	172	159	331	4,676
Internal Capture			-29	-3	-32	-28	-41	-69	-956
Pass-by Reduction (50% - AM; 55% - PM/Daily)			-199	-199	-398	-156	-156	-312	-4,524
Restaurant Total Trips			**250**	**198**	**448**	**154**	**128**	**282**	**3,702**
Strip Retail	10.225	TSF	14	10	24	34	34	68	558
Internal Capture			-2	-2	-4	-20	-19	-39	-322
Pass-by Reduction (40% - PM/Daily)			0	0	0	-6	-6	-12	-94
Retail Total Trips			**12**	**8**	**20**	**8**	**9**	**17**	**142**
Passenger Cars			470	363	833	327	362	689	7,938
Trucks			40	34	74	48	55	103	2,104
Total Trips (PCE)[2]			**510**	**397**	**907**	**375**	**417**	**792**	**10,042**

[1] TSF = thousand square feet; DU = Dwelling Units

[2] Total Trips = Passenger Cars + Truck Trips.

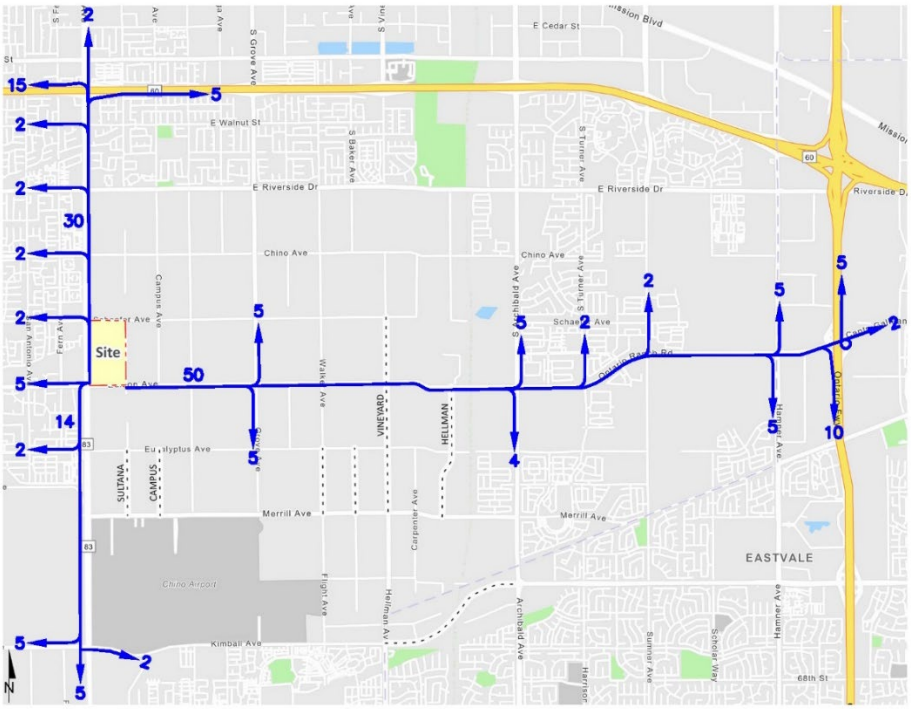
TRIP DISTRIBUTION

The Project trip distribution and assignment process represents the directional orientation of traffic to and from the Project site. Trip distribution patterns have been developed for each land use component of the Specific Plan as follows:

- Exhibit 3: Project (Residential) Trip Distribution
- Exhibit 4: Project (Retail) Trip Distribution
- Exhibit 5: Project (Business Park – Passenger Cars) Trip Distribution
- Exhibit 6: Project (Business Park – Trucks) Trip Distribution

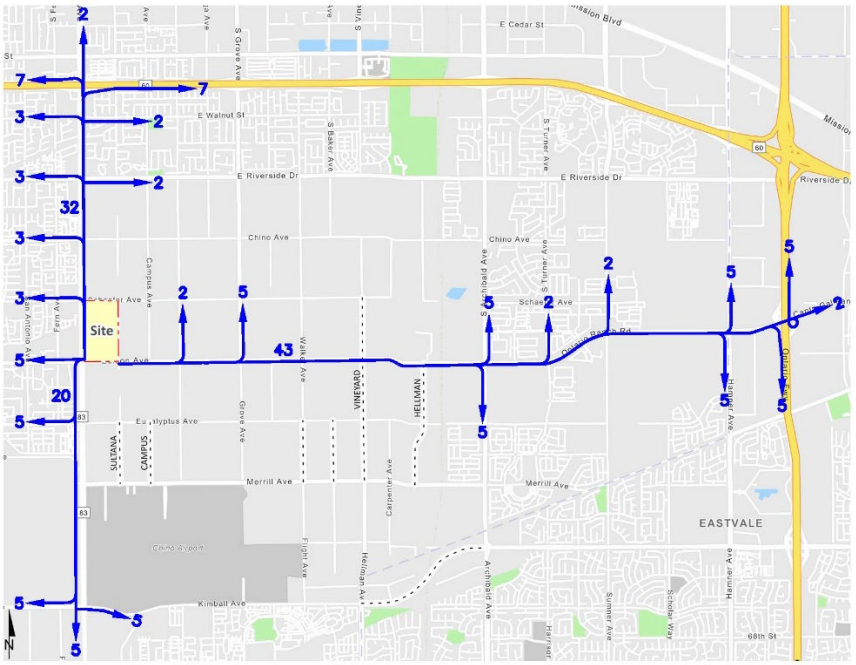
Trip distribution patterns for each project land use type is consistent with/similar to other projects in the vicinity. Detailed distributions at the site are provided in Attachment C.

EXHIBIT 3: PROJECT (RESIDENTIAL) TRIP DISTRIBUTION



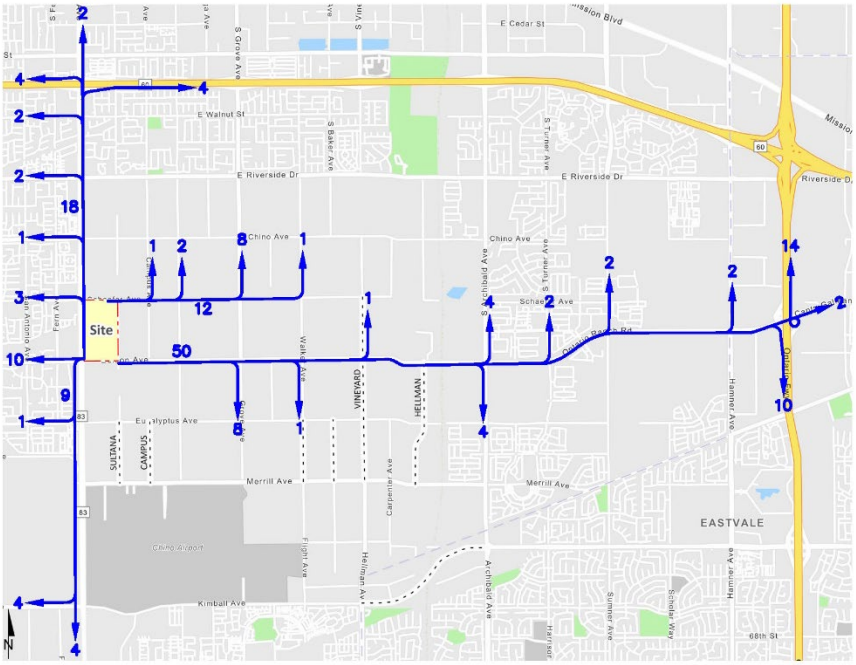
10 = Percent To/From Project

EXHIBIT 4: PROJECT (RETAIL) TRIP DISTRIBUTION



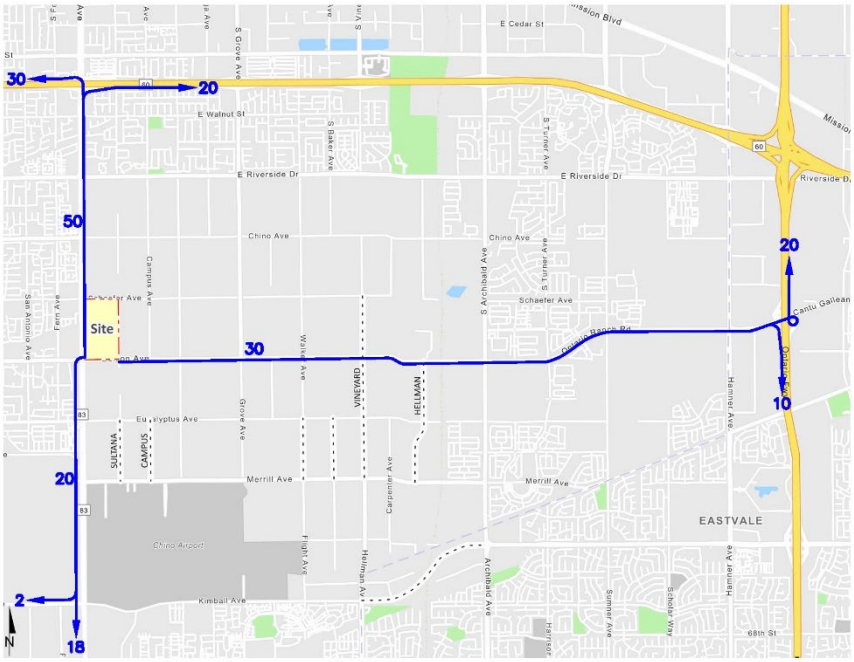
10 = *Percent To/From Project*

EXHIBIT 5: PROJECT (BUSINESS PARK – PASSENGER CARS) TRIP DISTRIBUTION



10 = *Percent To/From Project*

EXHIBIT 6: PROJECT (BUSINESS PARK – TRUCKS) TRIP DISTRIBUTION



10 = *Percent To/From Project*

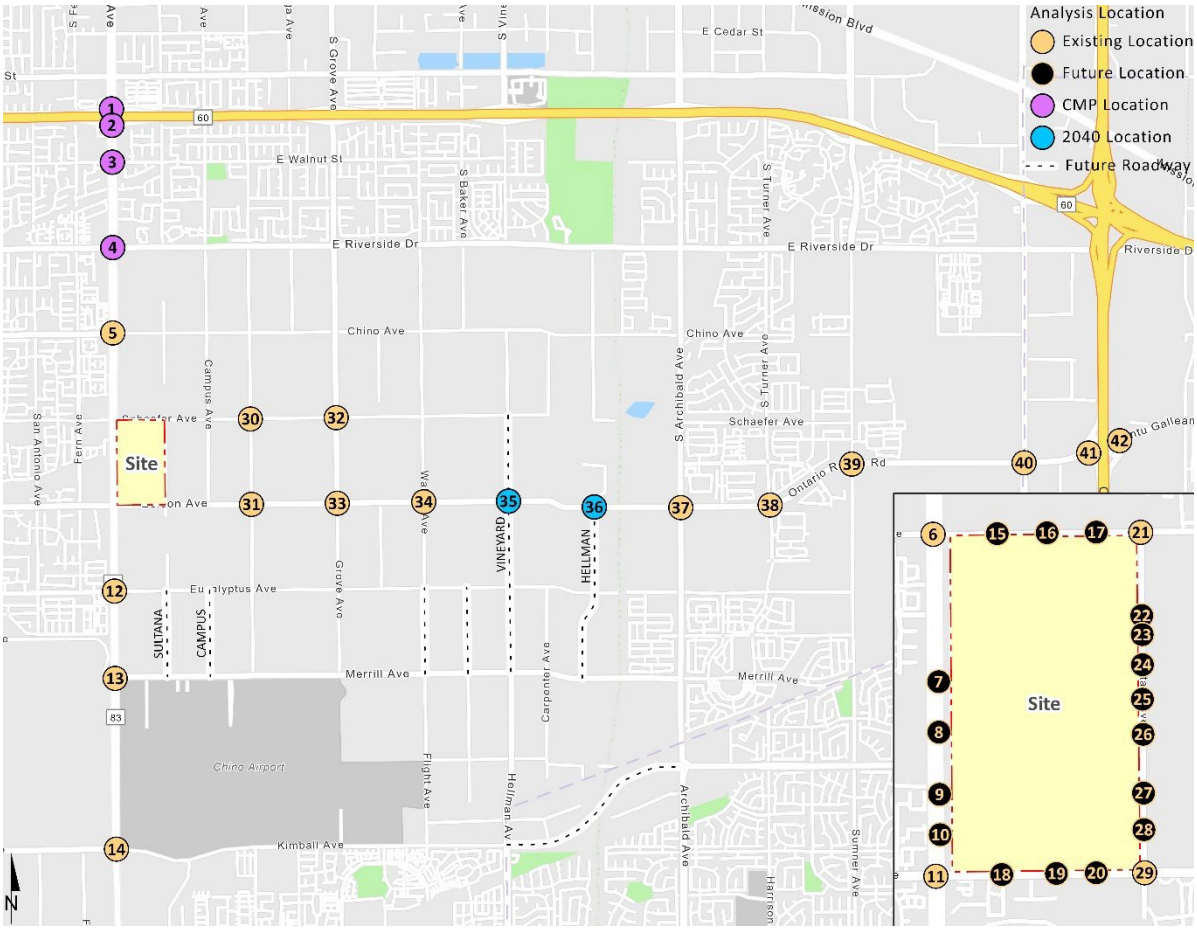
INTERSECTION ANALYSIS LOCATIONS

Exhibit 7 depicts the recommended intersection analysis locations, based upon the Project trip generation and trip distribution patterns included as part of this letter. The study area intersections are consistent with the locations evaluated in the Specific Plan. Table 4 also includes a summary of the study area intersections.

TABLE 4: INTERSECTION ANALYSIS LOCATIONS

#	Intersection
1	Euclid Av. (SR-83) & SR-60 WB Ramps
2	Euclid Av. (SR-83) & SR-60 EB Ramps
3	Euclid Av. (SR-83) & Walnut Av.
4	Euclid Av. (SR-83) & Riverside Dr.
5	Euclid Av. (SR-83) & Chino Av.
6	Euclid Av. (SR-83) & Schaefer Av.
7	Euclid Av. (SR-83) & Driveway 1
8	Euclid Av. (SR-83) & Driveway 2
9	Euclid Av. (SR-83) & Driveway 3
10	Euclid Av. (SR-83) & Driveway 4
11	Euclid Av. (SR-83) & Edison Av.
12	Euclid Av. (SR-83) & Eucalyptus Av.
13	Euclid Av. (SR-83) & Merrill Av.
14	Euclid Av. (SR-83) & Kimball Av.
15	Driveway 5 & Schaefer Av.
16	Driveway 6 & Schaefer Av.
17	Driveway 7 & Schaefer Av.
18	Driveway 8 & Edison Av.
19	Driveway 9 & Edison Av.
20	Driveway 10 & Edison Av.
21	Sultana Av. & Schaefer Av.
22	Sultana Av. & Driveway 11
23	Sultana Av. & Driveway 12
24	Sultana Av. & Driveway 13
25	Sultana Av. & Driveway 14
26	Sultana Av. & Driveway 15
27	Sultana Av. & Driveway 16
28	Sultana Av. & Driveway 17
29	Sultana Av. & Edison Av.
30	Bon View Av. & Schaefer Av.
31	Bon View Av. & Edison Av.
32	Grove Av. & Schaefer Av.
33	Grove Av. & Edison Av.
34	Walker Av. & Edison Av.
35	Vineyard Av. & Edison Av.
36	Hellman Av. & Edison Av.
37	Archibald Av. & Edison Av.
38	Turner Av. & Ontario Ranch Rd.
39	Haven Av. & Ontario Ranch Rd.
40	Hamner Av. & Ontario Ranch Rd.
41	I-15 SB Ramps & Cantu Galleano Ranch Rd.
42	I-15 NB Ramps & Cantu Galleano Ranch Rd.

EXHIBIT 7: STUDY AREA



VEHICLE MILES TRAVELLED (VMT)

The VMT thresholds and methodology outlined in the City of Ontario's May 2020 VMT guidelines will be utilized to conduct the VMT analysis for the Project. The VMT analysis will be prepared and submitted under separate cover.

TRAFFIC SIGNAL WARRANTS

Traffic signal warrant analysis will be conducted for all unsignalized full access driveways/intersections following the guidance of the California Manual on Uniform Control Devices (CA MUTCD).

SPECIAL ISSUES

The following special issues will be addressed as part of the TA:

- Traffic signal warrant analyses will be conducted for all unsignalized study area intersections for all applicable analysis scenarios.
- Off-ramp queues will be assessed at all Caltrans off-ramps at the SR-60 and I-15 Freeways.

OPEN ITEMS – CUMULATIVE DEVELOPMENT PROJECTS

It is requested that the City of Ontario provide a current list of cumulative development projects for inclusion in our traffic study. A preliminary list of cumulative development projects is provided on Table 5 and graphically shown on Exhibit 8.

OPEN ITEMS – SIGNAL TIMING

It is requested that the City provide traffic signal timing for any City controlled intersections that we should take into consideration in our operations analysis. Applicable signal timing for Caltrans facilities will be obtained from District 8.

If you have any questions or comments, I can be reached at cso@urbanxroads.com.

Respectfully submitted,

URBAN CROSSROADS, INC.

Charlene So

Charlene So, PE
Principal



TABLE 5: CUMULATIVE DVELOPMENT LAND USE SUMMARY

#	Project/Location	Land Use	Quantity	Units[1]
City of Ontario				
O1	Parkside	Single Family Detached	437	DU
		Multi-Family Attached (Apartments)	1,510	DU
		Shopping Center	115.000	TSF
O2	Subarea 29 & Amendment (40% complete)	Single Family Detached	2,149	DU
		Shopping Center	87.000	TSF
O3	Colony Commerce West	High-Cube Warehouse	2213.360	TSF
		Manufacturing	737.786	TSF
O4	West Ontario Commerce Center SP	High-Cube Warehouse	1976.535	TSF
		Manufacturing	658.845	TSF
		Business Park	115.760	TSF
O5	Colony Commerce East	High-Cube Warehouse	998.680	TSF
		Manufacturing	233.129	TSF
		Warehousing	699.387	TSF
O6	Merrill Commerce Center	High-Cube Fulfillment Warehouse	7014.000	TSF
		Business Park	1441.000	TSF
O6	Ontario Ranch Commerce Center	High-Cube Cold Storage Warehouse	1159.200	TSF
		Warehousing	337.600	TSF
		Business Park	290.200	TSF
O7	Parente Home Ranch SP	Single Family Detached	270	DU
		Condo/Townhouse	1,872	DU
		General Office	462.281	TSF
		Shopping Center	194.278	TSF
O8	Countryside	Single Family Detached	819	DU
	Armstrong Ranch	Single Family Detached	994	DU
O9	The Avenue	Single Family Detached	2,020	DU
		Multi-Family Attached (Apartments)	586	DU
		Shopping Center	250.000	TSF
O10	Grand Park	Single Family Detached	484	DU
		Multi-Family Attached (Apartments)	843	DU
O11	West Haven	Single Family Detached	753	DU
		Shopping Center	87.000	TSF
O12	Haven Gateway	General Light Industrial	42.160	TSF
		High-Cube Warehouse	168.640	TSF
O13	Rich Haven	Single Family Detached	2,732	DU
		Multi-Family Attached (Condo)	1,524	DU
		Shopping Center	317.400	TSF
O14	Esperanza	Single Family Detached	914	DU
		Multi-Family Attached (Apartments)	496	DU

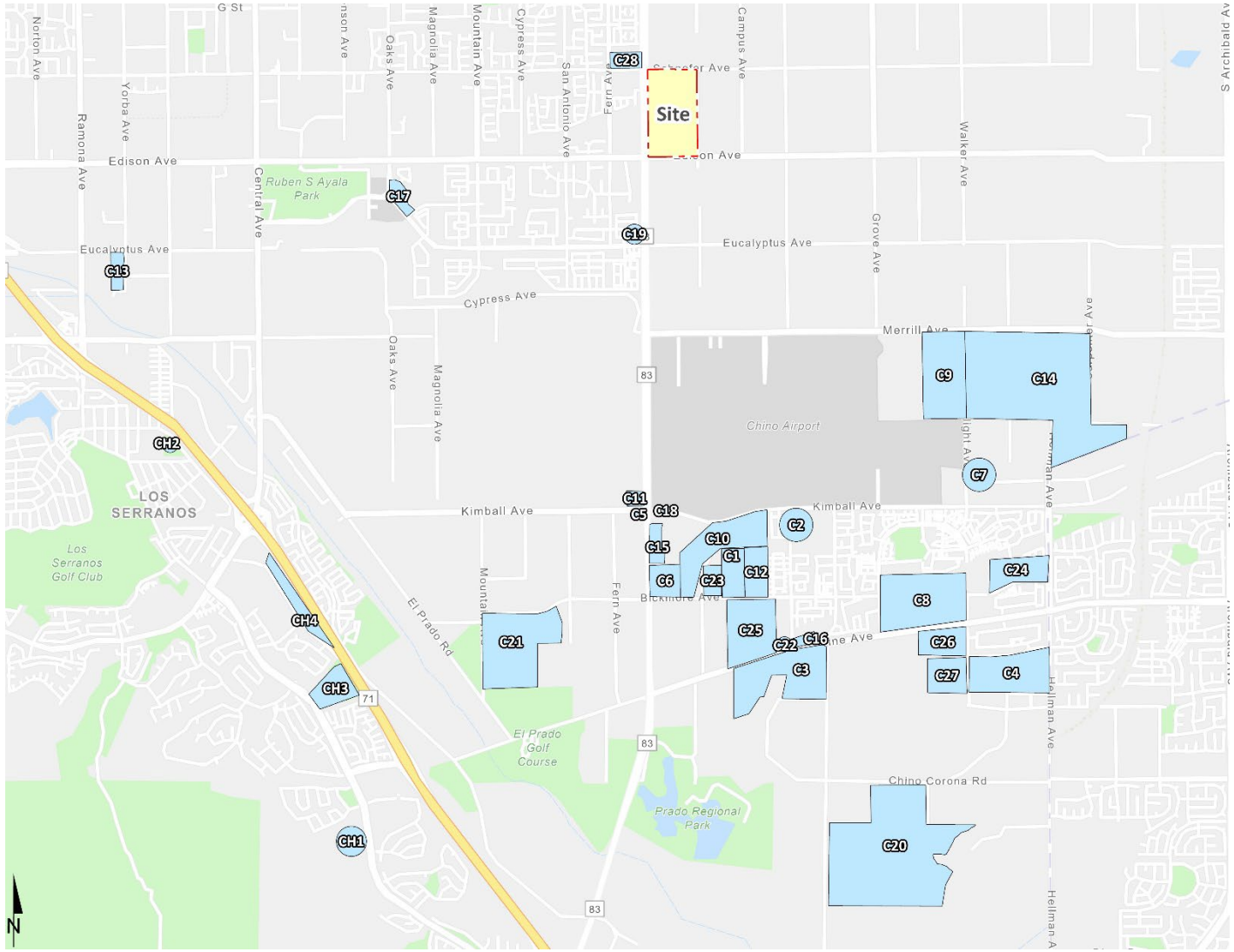
#	Project/Location	Land Use	Quantity	Units[1]
O15	Edenglen	Single Family Detached	310	DU
		Multi-Family Attached (Condo)	274	DU
		Shopping Center	217.520	TSF
		Business Park	550.000	TSF
O16	PDEV10-008 - Dry Food Storage	Mini-Warehouse	17.000	TSF
O17	Tuscana Village	Single Family Detached	176	DU
		Shopping Center	26.000	TSF
O18	Ontario Ranch Commerce Center	High-Cube Fulfillment Warehouse	1,447.123	TSF
		Business Park	457.904	TSF
O19	South Ontario Logistics Center	Business Park	1,075.235	TSF
		High-Cube Fulfillment Warehouse	2,819.282	TSF
		High-Cube Cold Storage Warehouse	563.857	TSF
		Warehousing	954.218	TSF
O20	Ontario Ranch Business Park	Business Park	227.951	TSF
		High-Cube Fulfillment Warehouse	913.053	TSF
		High-Cube Cold Storage Warehouse	179.135	TSF
		Warehousing	320.551	TSF
City of Chino				
C1	Bickmore Street Residential (TM 18858) (30% complete)	Single Family Detached	185	DU
C2	TM17574 (80% complete)	Condo/Townhouse	108	DU
C3	Pines Community	Single Family Detached	552	DU
		Public Park	3.0	AC
		Self Storage & RV Storage	120.000	TSF
		Sports Park	41.8	AC
C4	Tract 19980 (Homecoming Phase 4)	Apartments	454	DU
	TTM No. 20166 & 20167	Single Family Detached	148	DU
	Brio & TTM No. 21065 & 20168 (Orchards)	Single Family Detached	239	DU
C5	Farmer Boys	Fast-food w/ Drive-Thru	3.218	TSF
		Shopping Center	2.300	TSF
C6	Euclid & Bickmore Warehouse	Warehousing	205.820	TSF
		General Light Industrial	51.030	TSF
		Business Park	110.620	TSF
C7	Kimball Business Park	Business Park	146.550	TSF
C8	Falloncrest at the Preserve	Multifamily Housing (Low-Rise)	698	DU
		Multifamily Housing (Mid-Rise)	440	DU
		Public Parks	21.60	AC
		General Office	77.597	TSF
		Commercial Retail	77.597	TSF
C9	Chino Parcel Delivery	Parcel Delivery Facility	765.274	TSF
C10	Altitude Business Centre	Warehousing	715.000	TSF
		Light Industrial	255.000	TSF
		Business Park	233.000	TSF
		Self-Storage	110.000	TSF

#	Project/Location	Land Use	Quantity	Units[1]
C11	Majestic Gateway	Specialty Retail	25.000	TSF
		Pharmacy/Drugstore with Drive-Thru	13.000	TSF
		Fast-Food with Drive-Thru	8.600	TSF
C12	Bouma Residential	Single Family Detached	106	DU
		Condo/Townhouse	94	DU
C13	Fairfield Inn & Suites (PL 17-0060 & PL 17-0061)	Hotel	111	RM
C14	Watson Industrial Park (40% complete)	High-Cube Warehouse	3,889.900	TSF
C15	Chino Business Park	General Light Industrial	165.500	TSF
		Business Park	21.500	TSF
C16	Flores Site	Shopping Center	4.000	TSF
		Gas Station w/ convenience store	16	VFP
		Express Car Wash	5.000	TSF
C17	The Campus at College Park	Church	27.000	TSF
		General Office	16.969	TSF
		Commercial Retail/Restaurants	33.661	TSF
C18	Archibald's (PL 17-0037)	Fast-Food with Drive-Thru	3.147	TSF
C19	TM 18972 (80% complete)	Single Family Detached	147	DU
C20	Rancho Miramonte	Single Family Detached	691	DU
		Condo/Townhouse	132	DU
		Neighborhood Retail	21.780	TSF
		Church	400	SEAT
C21	Majestic Chino Heritage	High-Cube Fulfillment Warehouse	1982.700	TSF
		High-Cube Cold Storage Warehouse	100.000	TSF
C22	Church	Church	47.979	TSF
		Daycare	190	STU
C23	Appesetche Residential	Single Family Detached	60	DU
		Condo/Townhouse	160	DU
C24	Tract 19951, 19952, 19953, 19935 & 18479	Single Family Detached	151	DU
		Condo/Townhouse	150	DU
C25	Ag. Buffer, Bungalow, Lic. Product, Liberty Deluxe, Lyon 2 & 3	Single Family Detached	474	DU
C26	The Preserve Town Center (Blocks 6 and 7)	Multifamily Housing	549	DU
		Office	16.300	TSF
		Shopping Center	36.800	TSF
		Pharmacy with Drive-Thru	12.900	TSF
		Supermarket	45.000	TSF
		Fast-Food Restaurant with Drive-Thru	6.500	TSF
		Fast Casual Restaurant	13.750	TSF
		Quality Restaurant	13.750	TSF
C27	The Preserve Civic Center	Elementary School	1,200	STU
		Library	10.00	AC
		Community Center	10.00	AC
		Park	8.00	AC
C28	Euclid & Schaefer Shopping	Commercial Retail + Gas + Car wash	74.756	TSF

#	Project/Location	Land Use	Quantity	Units[1]
City of Eastvale				
E1	The Merge	Warehousing	336.501	TSF
		Shopping Center	4.750	TSF
		Supermarket	30.000	TSF
		Gas Station w/ convenience store	16	VFP
		Pharmacy/Drugstore with Drive-Thru	14.600	TSF
		Fast-Food with Drive-Thru	6.000	TSF
		Automated Car Wash	4.000	TSF
		Fast-Food Without Drive-Thru	7.750	TSF
		Coffee/Donut Shop With Drive-Thru	2.500	TSF
E2	TR29997	Single Family Detached	122	DU
E3	13-0632 - Sumner Residential (Stratham Homes)	Single Family Detached	129	DU
E4	TR35751	Condo/Townhouse	243	DU
E5	PP23219 (PM35865) (50% complete)	General Light Industrial	738.430	TSF
E6	Eastvale Shopping Center	Free-Standing Discount Superstore	192.000	TSF
		Specialty Retail	9.200	TSF
		Fast-Food Without Drive-Thru	7.200	TSF
		Coffee/Donut Shop w/ Drive Thru	2.000	TSF
		Fast-Food with Drive-Thru	3.500	TSF
		Gas Station w/ convenience store & car was	16	VFP
E7	Van Leeuwen	Single Family Detached	224	DU
E8	SP00358 - The Ranch at Eastvale	Shopping Center	267.200	TSF
		General Light Industrial	801.500	TSF
		Business Park	1,121.100	TSF
E9	SC Limonite, LLC	Single Family Detached	330	TSF
E10	Leal Master Plan	Lifestyle Center (Commercial)	1,300.000	TSF
		General Commercial	225.000	TSF
		Office	920.000	TSF
		Hotel	450	RM
		High Density Residential	500-660	DU
E11	Eastvale Commerce Center	Shopping Center	650.000	TSF
E12	S. Milliken Warehouse	High-Cube Warehouse	280.000	TSF
E13	15-1508 - Industrial Warehouse	Warehousing	155.000	TSF
City of Chino Hills				
CH1	Vila Borba Specific Plan (TR 16414)	Single Family Detached	172	DU
CH2	Country Club Villas	Condo/Townhouse	46	DU
CH3	The Goddard School	Daycare	10.587	TSF
CH4	Heritage Professional Center	Hospital	55.000	TSF
		Medical Office Building	86.952	TSF
		Hotel	120	RM
		Shopping Center	38.848	TSF
		Restaurant	7.200	TSF

[1] TSF = Thousand Square Feet; DU = Dwelling Unit; VFP = Vehicle Fueling Position ; AC = Acres; RM = Rooms

EXHIBIT 8: CUMULATIVE DEVELOPMENT LOCATION MAP



ATTACHMENT A: TRIP GENERATION FOR TRUCK/TRAILER PARKING LOT

TABLE A-1: EMPIRICAL DATA FOR EXISTING FACILITIES

Source	Quantity	Units	AM Peak Hour In	AM Peak Hour Out	AM Peak Hour Total	PM Peak Hour In	PM Peak Hour Out	PM Peak Hour Total	Daily
5087 Patterson Avenue, Perris, CA	4.5	Acres							
Passenger Cars:			0	2	2	1	1	2	38
2-axle Trucks:			0	5	5	3	0	3	36
3-axle Trucks:			1	0	1	1	0	1	38
4+-axle Trucks:			1	0	1	0	3	3	58
Total Trucks (Actual Vehicles)			2	5	7	4	3	7	132
5087 Patterson Av. Total Trips (Actual Vehicles)			**2**	**7**	**9**	**5**	**4**	**9**	**170**
14769 San Bernardino Avenue, Fontana	4.4	Acres							
Passenger Cars:			2	0	2	0	0	0	12
2-axle Trucks:			0	0	0	0	0	0	0
3-axle Trucks:			0	0	0	0	0	0	18
4+-axle Trucks:			0	0	0	0	0	0	20
Total Trucks (Actual Vehicles)			0	0	0	0	0	0	38
14769 San Bernardino Av. Total Trips (Actual Vehicles)			**2**	**0**	**2**	**0**	**0**	**0**	**50**

** Data presented based on driveway counts conducted on January 23, 2019 (Site 1) and March 17, 2020 (Site 2).

TABLE A-2: CALCULATED TRIP GENERATION RATES

Land Use	Units	Weekday AM Peak Hour In	Weekday AM Peak Hour Out	Weekday AM Peak Hour Total	Weekday PM Peak Hour In	Weekday PM Peak Hour Out	Weekday PM Peak Hour Total	Weekday Daily
Site 1:								
Passenger Cars:		0.000	0.444	0.444	0.222	0.222	0.444	8.444
2-axle Trucks:		0.000	1.111	1.111	0.667	0.000	0.667	8.000
3-axle Trucks:		0.222	0.000	0.222	0.222	0.000	0.222	8.444
4+-axle Trucks:		0.222	0.000	0.222	0.000	0.667	0.667	12.889
Site 2:								
Passenger Cars:		0.455	0.000	0.455	0.000	0.000	0.000	2.727
2-axle Trucks:		0.000	0.000	0.000	0.000	0.000	0.000	0.000
3-axle Trucks:		0.000	0.095	0.095	0.000	0.000	0.000	4.091
4+-axle Trucks:		0.000	0.000	0.000	0.000	0.000	0.000	4.545
Actual Vehicles:[1]								
Average Truck Storage Yard	Acres							
Passenger Cars:		0.227	0.222	0.449	0.111	0.111	0.222	5.586
2-axle Trucks:		0.000	0.556	0.556	0.333	0.000	0.333	4.000
3-axle Trucks:		0.111	0.047	0.159	0.111	0.000	0.111	6.268
4+-axle Trucks:		0.111	0.000	0.111	0.000	0.333	0.333	8.717

[1] The trip generation rates were calculated by taking the AM, PM and daily trips identified in Table 1 and divided by the total trailer parking spaces for each existing site, then averaging those rates.

City:	Fontana
Location:	14769 San Bernardino Avenue
Date:	Tuesday 3/17/2020
Count Type:	Driveway Classification

	Entering					Exiting				
	Pass Veh	Large 2 Axle	3 Axle	4+ Axle	Total	Pass Veh	Large 2 Axle	3 Axle	4+ Axle	Total
0:00	0	0	0	0	0	0	0	0	0	0
0:15	0	0	0	0	0	0	0	0	0	0
0:30	0	0	0	0	0	0	0	0	0	0
0:45	0	0	0	0	0	0	0	0	0	0
1:00	0	0	0	4	4	0	0	2	0	2
1:15	0	0	0	2	2	0	0	4	0	4
1:30	0	0	0	2	2	0	0	2	0	2
1:45	1	0	0	2	3	0	0	1	0	1
2:00	0	0	0	2	2	0	0	2	0	2
2:15	0	0	0	2	2	0	0	2	0	2
2:30	0	0	0	1	1	0	0	2	0	2
2:45	0	0	0	2	2	0	0	2	0	2
3:00	0	0	0	1	1	0	0	1	0	1
3:15	0	0	0	0	0	0	0	0	0	0
3:30	0	0	0	1	1	0	0	0	0	0
3:45	0	0	0	0	0	0	0	0	0	0
4:00	0	0	0	0	0	0	0	0	0	0
4:15	0	0	0	0	0	0	0	0	0	0
4:30	0	0	0	0	0	0	0	0	0	0
4:45	0	0	0	0	0	0	0	0	0	0
5:00	0	0	0	0	0	0	0	0	0	0
5:15	0	0	0	0	0	0	0	0	0	0
5:30	0	0	0	0	0	0	0	0	0	0
5:45	0	0	0	0	0	0	0	0	0	0
6:00	0	0	0	0	0	0	0	0	0	0
6:15	0	0	0	0	0	0	0	0	0	0
6:30	0	0	0	0	0	0	0	0	0	0
6:45	0	0	0	0	0	0	0	0	0	0
7:00	0	0	0	0	0	0	0	0	0	0
7:15	0	0	0	0	0	0	0	0	0	0
7:30	0	0	0	0	0	0	0	0	0	0
7:45	0	0	0	0	0	0	0	0	0	0
8:00	0	0	0	0	0	0	0	0	0	0
8:15	0	0	0	0	0	0	0	0	0	0
8:30	0	0	0	0	0	0	0	0	0	0
8:45	2	0	0	0	2	0	0	0	0	0
9:00	0	0	0	0	0	0	0	0	0	0
9:15	1	0	0	0	1	2	0	0	0	2
9:30	0	0	0	0	0	1	0	0	0	1
9:45	0	0	0	0	0	0	0	0	0	0
10:00	1	0	0	0	1	1	0	0	0	1
10:15	0	0	0	0	0	0	0	0	0	0
10:30	0	0	0	0	0	0	0	0	0	0
10:45	0	0	0	0	0	0	0	0	0	0
11:00	1	0	0	0	1	0	0	0	0	0
11:15	0	0	0	0	0	0	0	0	0	0
11:30	0	0	0	0	0	1	0	0	0	1
11:45	0	0	0	0	0	0	0	0	0	0
12:00	0	0	0	0	0	0	0	0	0	0
12:15	0	0	0	0	0	0	0	0	0	0
12:30	0	0	0	0	0	0	0	0	0	0
12:45	0	0	0	0	0	0	0	0	0	0
13:00	0	0	0	0	0	0	0	0	0	0
13:15	0	0	0	0	0	0	0	0	0	0
13:30	0	0	0	0	0	0	0	0	0	0
13:45	0	0	0	0	0	0	0	0	0	0
14:00	0	0	0	0	0	0	0	0	0	0
14:15	0	0	0	0	0	0	0	0	0	0
14:30	0	0	0	0	0	0	0	0	0	0
14:45	0	0	0	0	0	0	0	0	0	0
15:00	0	0	0	0	0	0	0	0	0	0
15:15	0	0	0	0	0	0	0	0	0	0
15:30	0	0	0	0	0	0	0	0	0	0
15:45	0	0	0	0	0	0	0	0	0	0
16:00	0	0	0	0	0	0	0	0	0	0
16:15	0	0	0	0	0	0	0	0	0	0
16:30	0	0	0	0	0	0	0	0	0	0
16:45	0	0	0	0	0	0	0	0	0	0
17:00	0	0	0	0	0	0	0	0	0	0
17:15	0	0	0	0	0	0	0	0	0	0
17:30	0	0	0	0	0	0	0	0	0	0
17:45	0	0	0	0	0	0	0	0	0	0
18:00	0	0	0	0	0	0	0	0	0	0
18:15	0	0	0	0	0	0	0	0	0	0
18:30	0	0	0	0	0	0	0	0	0	0
18:45	0	0	0	0	0	0	0	0	0	0
19:00	0	0	0	0	0	0	0	0	0	0
19:15	0	0	0	0	0	0	0	0	0	0
19:30	0	0	0	0	0	0	0	0	0	0
19:45	0	0	0	0	0	0	0	0	0	0
20:00	0	0	0	0	0	0	0	0	0	0
20:15	0	0	0	0	0	0	0	0	0	0
20:30	0	0	0	0	0	0	0	0	0	0
20:45	0	0	0	0	0	0	0	0	0	0
21:00	0	0	0	0	0	0	0	0	0	0
21:15	0	0	0	0	0	0	0	0	0	0
21:30	0	0	0	0	0	0	0	0	0	0
21:45	0	0	0	0	0	0	0	0	0	0
22:00	0	0	0	0	0	0	0	0	0	0
22:15	0	0	0	0	0	0	0	0	0	0
22:30	0	0	0	0	0	0	0	0	0	0
22:45	0	0	0	0	0	0	0	0	0	0
23:00	0	0	0	0	0	0	0	0	0	0
23:15	0	0	0	0	0	0	0	0	0	0
23:30	0	0	0	0	0	0	0	0	0	0
23:45	0	0	0	0	0	0	0	0	0	0
TOTAL	**6**	**0**	**0**	**19**	**25**	**5**	**0**	**18**	**0**	**23**

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City: Perris
Location: 5087 Patterson Avenue
Date: 1/23/2019
Count Type: Classification

	Entering					
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	Total
0:00	0	0	0	0	0	0
0:15	0	0	0	0	0	0
0:30	0	0	0	0	0	0
0:45	1	0	0	0	0	1
1:00	1	0	0	0	0	1
1:15	0	0	0	0	0	0
1:30	0	0	0	0	0	0
1:45	0	0	1	0	0	1
2:00	0	0	0	0	0	0
2:15	0	0	0	0	0	0
2:30	0	0	0	0	0	0
2:45	0	0	0	0	0	0
3:00	0	0	0	0	0	0
3:15	0	0	0	0	0	0
3:30	0	0	0	0	0	0
3:45	0	0	0	0	0	0
4:00	0	0	0	0	0	0
4:15	0	0	0	0	0	0
4:30	0	0	0	0	0	0
4:45	0	0	0	0	0	0
5:00	0	0	0	0	0	0
5:15	0	0	0	0	0	0
5:30	0	0	0	0	0	0
5:45	0	0	0	0	0	0
6:00	1	0	0	0	0	1
6:15	0	0	0	0	1	1
6:30	0	0	0	0	1	1
6:45	2	0	0	0	3	5
7:00	0	0	0	0	0	0
7:15	0	0	1	0	0	1
7:30	0	0	0	0	1	1
7:45	0	0	0	0	0	0
8:00	2	0	0	0	0	2
8:15	0	0	0	0	0	0
8:30	0	0	0	0	0	0
8:45	0	1	0	0	0	1
9:00	1	0	0	1	1	3
9:15	0	0	0	0	0	0
9:30	0	0	0	0	0	0
9:45	1	0	0	0	0	1
10:00	0	0	0	0	0	0
10:15	0	0	0	0	0	0
10:30	0	0	0	0	0	0
10:45	0	0	0	0	0	0
11:00	0	0	0	0	1	1
11:15	0	0	1	0	1	2
11:30	0	1	1	0	1	3
11:45	0	0	0	0	0	0
12:00	0	1	0	0	0	1
12:15	0	1	0	0	2	3
12:30	0	2	0	0	0	2
12:45	0	0	0	0	1	1
13:00	0	0	1	0	1	2
13:15	0	0	0	0	0	0
13:30	1	0	0	2	1	4
13:45	0	0	0	0	0	0

	Exiting					
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	Total
0:00	0	0	0	0	0	0
0:15	0	0	0	0	0	0
0:30	0	0	0	0	0	0
0:45	0	0	0	0	0	0
1:00	0	0	0	0	0	0
1:15	0	0	0	0	0	0
1:30	0	0	0	0	0	0
1:45	0	0	0	0	0	0
2:00	0	0	1	0	0	1
2:15	0	0	0	0	0	0
2:30	0	0	0	0	0	0
2:45	0	0	0	0	0	0
3:00	1	0	0	0	0	1
3:15	1	0	0	0	0	1
3:30	0	0	0	0	0	0
3:45	0	0	0	0	0	0
4:00	0	0	0	0	0	0
4:15	0	0	0	0	0	0
4:30	0	0	0	0	0	0
4:45	0	0	0	0	0	0
5:00	0	0	0	0	0	0
5:15	0	0	0	0	0	0
5:30	0	0	0	0	0	0
5:45	0	0	0	0	0	0
6:00	0	0	0	0	0	0
6:15	0	0	0	0	0	0
6:30	1	0	1	0	0	2
6:45	0	0	0	0	0	0
7:00	1	0	3	0	0	4
7:15	1	0	1	0	0	2
7:30	0	0	1	0	0	1
7:45	0	0	0	0	0	0
8:00	0	1	0	0	0	1
8:15	1	0	0	0	0	1
8:30	0	0	0	0	0	0
8:45	0	1	0	0	0	1
9:00	0	0	0	0	0	0
9:15	1	0	0	0	0	1
9:30	0	1	0	0	0	1
9:45	0	0	1	0	0	1
10:00	1	0	0	0	0	1
10:15	0	0	0	0	0	0
10:30	0	0	0	0	0	0
10:45	0	0	0	0	0	0
11:00	0	0	0	0	0	0
11:15	0	0	1	0	0	1
11:30	0	0	2	0	0	2
11:45	0	0	0	1	1	2
12:00	0	0	1	0	0	1
12:15	0	0	0	2	0	2
12:30	0	0	2	0	0	2
12:45	0	0	0	0	0	0
13:00	1	0	2	2	0	5
13:15	0	0	1	0	0	1
13:30	1	0	1	0	0	2
13:45	0	2	0	0	0	2

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City: Perris
Location: 5087 Patterson Avenue
Date: 1/23/2019
Count Type: Classification

	Entering					
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	Total
14:00	1	0	0	0	2	3
14:15	0	0	0	0	0	0
14:30	0	0	0	0	0	0
14:45	0	0	0	0	0	0
15:00	1	0	0	0	0	1
15:15	0	0	0	0	0	0
15:30	0	0	0	0	0	0
15:45	0	0	0	0	2	2
16:00	0	0	0	1	0	1
16:15	0	0	0	0	0	0
16:30	1	0	0	0	0	1
16:45	0	0	0	0	0	0
17:00	0	1	0	0	0	1
17:15	1	1	0	0	0	2
17:30	0	0	0	0	0	0
17:45	0	1	1	0	0	2
18:00	1	0	0	0	0	1
18:15	0	0	0	0	2	2
18:30	0	0	0	0	3	3
18:45	0	1	0	0	0	1
19:00	0	1	0	0	0	1
19:15	0	0	0	0	0	0
19:30	1	0	0	1	0	2
19:45	2	0	0	0	1	3
20:00	0	0	0	0	0	0
20:15	0	1	0	0	0	1
20:30	0	2	1	0	0	3
20:45	1	1	0	0	0	2
21:00	0	0	1	0	0	1
21:15	0	0	0	0	0	0
21:30	0	0	0	0	0	0
21:45	0	2	0	0	1	3
22:00	0	2	1	0	0	3
22:15	0	0	0	1	0	1
22:30	0	0	0	0	0	0
22:45	0	1	0	0	0	1
23:00	0	2	0	1	1	4
23:15	0	0	0	0	0	0
23:30	0	0	0	0	0	0
23:45	0	0	0	0	0	0
TOTAL	**19**	**22**	**9**	**7**	**27**	**84**

	Exiting					
	Pass Veh	Large 2 Axle	3 Axle	4 Axle	5+ Axle	Total
14:00	0	0	1	0	0	1
14:15	0	0	0	0	0	0
14:30	0	0	1	0	0	1
14:45	0	0	0	0	0	0
15:00	0	0	0	0	0	0
15:15	1	0	0	0	0	1
15:30	0	0	0	0	0	0
15:45	0	0	1	0	0	1
16:00	0	0	1	0	0	1
16:15	0	1	0	0	0	1
16:30	1	0	0	0	0	1
16:45	0	0	0	0	0	0
17:00	0	0	0	1	0	1
17:15	1	0	0	1	0	2
17:30	0	0	0	0	0	0
17:45	0	0	0	1	0	1
18:00	0	0	0	0	1	1
18:15	0	0	0	0	0	0
18:30	2	2	0	0	0	4
18:45	0	1	2	0	0	3
19:00	0	0	0	0	1	1
19:15	0	0	0	1	0	1
19:30	0	0	0	0	0	0
19:45	0	1	0	0	0	1
20:00	1	0	1	0	0	2
20:15	0	0	0	1	0	1
20:30	0	1	0	1	0	2
20:45	0	0	0	1	1	2
21:00	2	0	0	0	0	2
21:15	0	0	0	0	0	0
21:30	0	0	1	0	0	1
21:45	0	0	0	0	1	1
22:00	0	0	1	2	0	3
22:15	0	0	1	0	1	2
22:30	0	1	0	0	0	1
22:45	0	0	0	1	0	1
23:00	0	1	0	0	0	1
23:15	0	0	1	1	1	3
23:30	0	0	0	0	0	0
23:45	1	0	0	0	0	1
	19	**13**	**29**	**16**	**7**	**84**

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ATTACHMENT B: INTERNAL CAPTURE

NCHRP 684 Internal Trip Capture Estimation Tool			
Project Name:	Euclid Mixed Use	**Organization:**	Urban Crossroads, Inc.
Project Location:	City of Ontario	**Performed By:**	CS
Scenario Description:		**Date:**	10/18/2022
Analysis Year:		**Checked By:**	
Analysis Period:	**AM Street Peak Hour**	**Date:**	

Table 1-A: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)

Land Use	Development Data (*For Information Only*)			Estimated Vehicle-Trips[3]		
	ITE LUCs[1]	Quantity	Units	Total	Entering	Exiting
Office				0		
Retail				24	14	10
Restaurant				878	478	400
Cinema/Entertainment				0		
Residential				187	45	142
Hotel				0		
All Other Land Uses[2]				0		
				1,089	537	552

Table 2-A: Mode Split and Vehicle Occupancy Estimates

Land Use	Entering Trips			Exiting Trips		
	Veh. Occ.[4]	% Transit	% Non-Motorized	Veh. Occ.[4]	% Transit	% Non-Motorized
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						
All Other Land Uses[2]						

Table 3-A: Average Land Use Interchange Distances (Feet Walking Distance)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						

Table 4-A: Internal Person-Trip Origin-Destination Matrix*

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		1	0	1	0
Restaurant	0	1		0	2	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	1	28	0		0
Hotel	0	0	0	0	0	

Table 5-A: Computations Summary

	Total	Entering	Exiting
All Person-Trips	1,089	537	552
Internal Capture Percentage	6%	6%	6%
External Vehicle-Trips[5]	1,021	503	518
External Transit-Trips[6]	0	0	0
External Non-Motorized Trips[6]	0	0	0

Table 6-A: Internal Trip Capture Percentages by Land Use

Land Use	Entering Trips	Exiting Trips
Office	N/A	N/A
Retail	14%	20%
Restaurant	6%	1%
Cinema/Entertainment	N/A	N/A
Residential	7%	20%
Hotel	N/A	N/A

[1]Land Use Codes (LUCs) from *Trip Generation Manual*, published by the Institute of Transportation Engineers.

[2]Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

[3]Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

[4]Enter vehicle occupancy assumed in Table 1-A vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be made to Tables 5-A, 9-A (O and D). Enter transit, non-motorized percentages that will result with proposed mixed-use project complete.

[5]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-A.

[6]Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas A&M Transportation Institute - Version 2013.1

NCHRP 684 Internal Trip Capture Estimation Tool			
Project Name:	Euclid Mixed Use	**Organization:**	Urban Crossroads, Inc.
Project Location:	City of Ontario	**Performed By:**	CS
Scenario Description:		**Date:**	10/18/2022
Analysis Year:		**Checked By:**	
Analysis Period:	**PM Street Peak Hour**	**Date:**	

Table 1-P: Base Vehicle-Trip Generation Estimates (Single-Use Site Estimate)

Land Use	Development Data (*For Information Only*)			Estimated Vehicle-Trips[3]		
	ITE LUCs[1]	Quantity	Units	Total	Entering	Exiting
Office				0		
Retail				68	34	34
Restaurant				663	338	325
Cinema/Entertainment				0		
Residential				238	150	88
Hotel				0		
All Other Land Uses[2]				0		
				969	522	447

Table 2-P: Mode Split and Vehicle Occupancy Estimates

Land Use	Entering Trips			Exiting Trips		
	Veh. Occ.[4]	% Transit	% Non-Motorized	Veh. Occ.[4]	% Transit	% Non-Motorized
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						
All Other Land Uses[2]						

Table 3-P: Average Land Use Interchange Distances (Feet Walking Distance)

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office						
Retail						
Restaurant						
Cinema/Entertainment						
Residential						
Hotel						

Table 4-P: Internal Person-Trip Origin-Destination Matrix*

Origin (From)	Destination (To)					
	Office	Retail	Restaurant	Cinema/Entertainment	Residential	Hotel
Office		0	0	0	0	0
Retail	0		10	0	9	0
Restaurant	0	17		0	24	0
Cinema/Entertainment	0	0	0		0	0
Residential	0	3	18	0		0
Hotel	0	0	0	0	0	

Table 5-P: Computations Summary

	Total	Entering	Exiting
All Person-Trips	969	522	447
Internal Capture Percentage	17%	16%	18%
External Vehicle-Trips[5]	807	441	366
External Transit-Trips[6]	0	0	0
External Non-Motorized Trips[6]	0	0	0

Table 6-P: Internal Trip Capture Percentages by Land Use

Land Use	Entering Trips	Exiting Trips
Office	N/A	N/A
Retail	59%	56%
Restaurant	8%	13%
Cinema/Entertainment	N/A	N/A
Residential	22%	24%
Hotel	N/A	N/A

[1]Land Use Codes (LUCs) from *Trip Generation Manual*, published by the Institute of Transportation Engineers.

[2]Total estimate for all other land uses at mixed-use development site is not subject to internal trip capture computations in this estimator.

[3]Enter trips assuming no transit or non-motorized trips (as assumed in ITE *Trip Generation Manual*).

[4]Enter vehicle occupancy assumed in Table 1-P vehicle trips. If vehicle occupancy changes for proposed mixed-use project, manual adjustments must be

[5]Vehicle-trips computed using the mode split and vehicle occupancy values provided in Table 2-P.

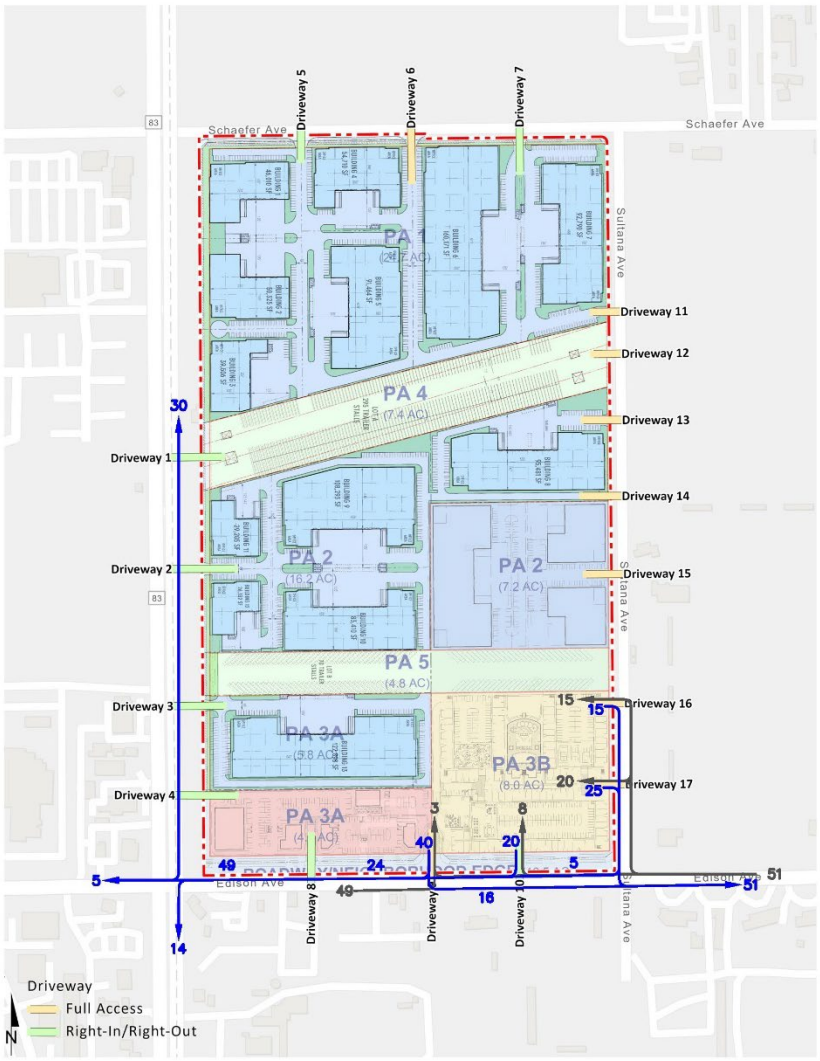
[6]Person-Trips

*Indicates computation that has been rounded to the nearest whole number.

Estimation Tool Developed by the Texas A&M Transportation Institute - Version 2013.1

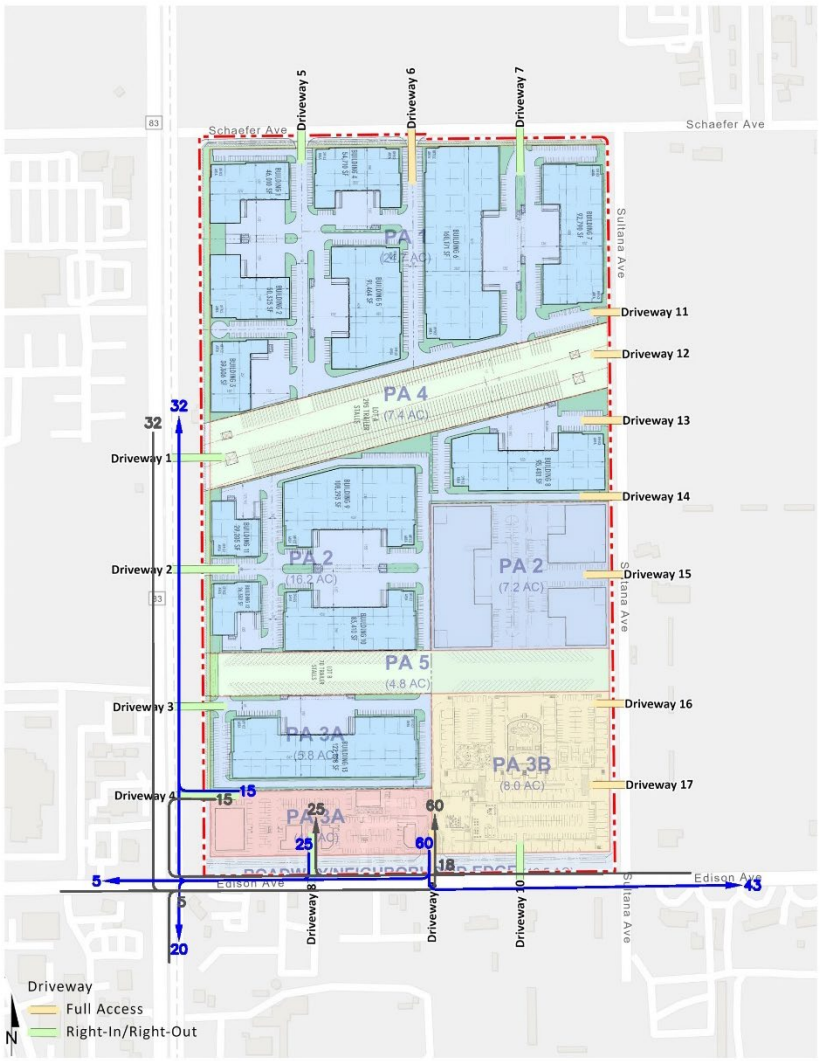
ATTACHMENT C: DETAILED PROJECT TRIP DISTRIBUITONS

Residential Trip Distribution:



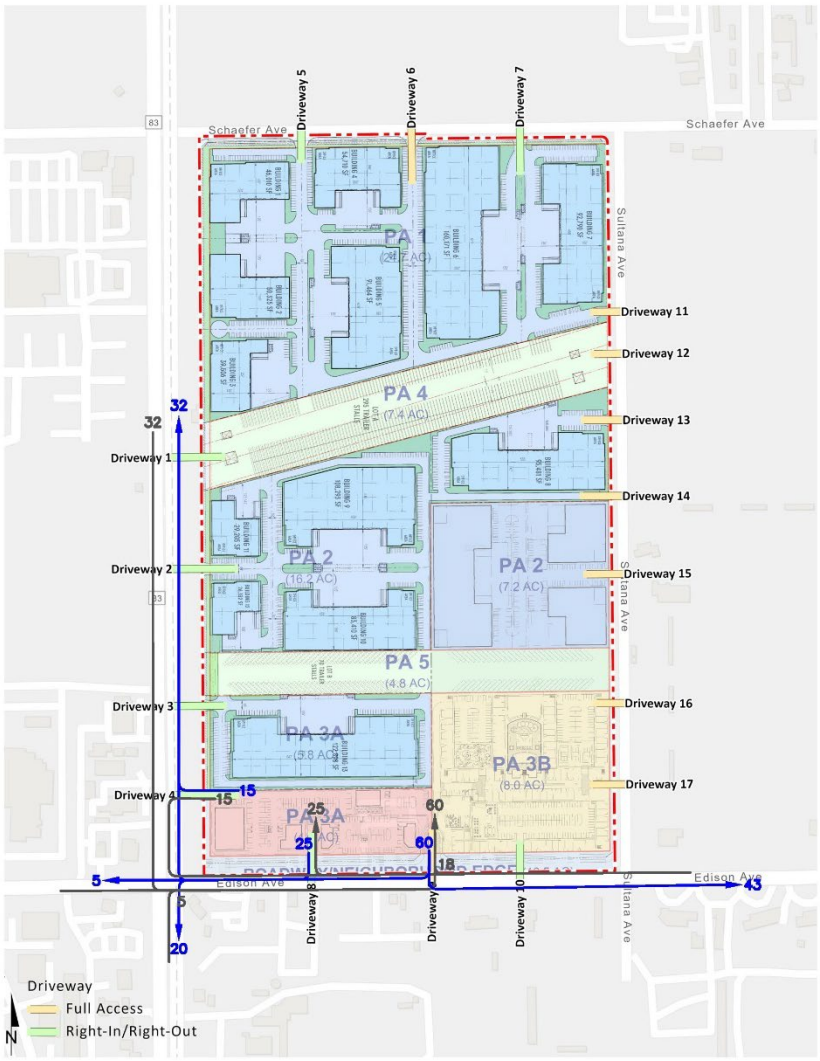
10 = ***Percent To/From Project***

Retail Inbound Trip Distribution:



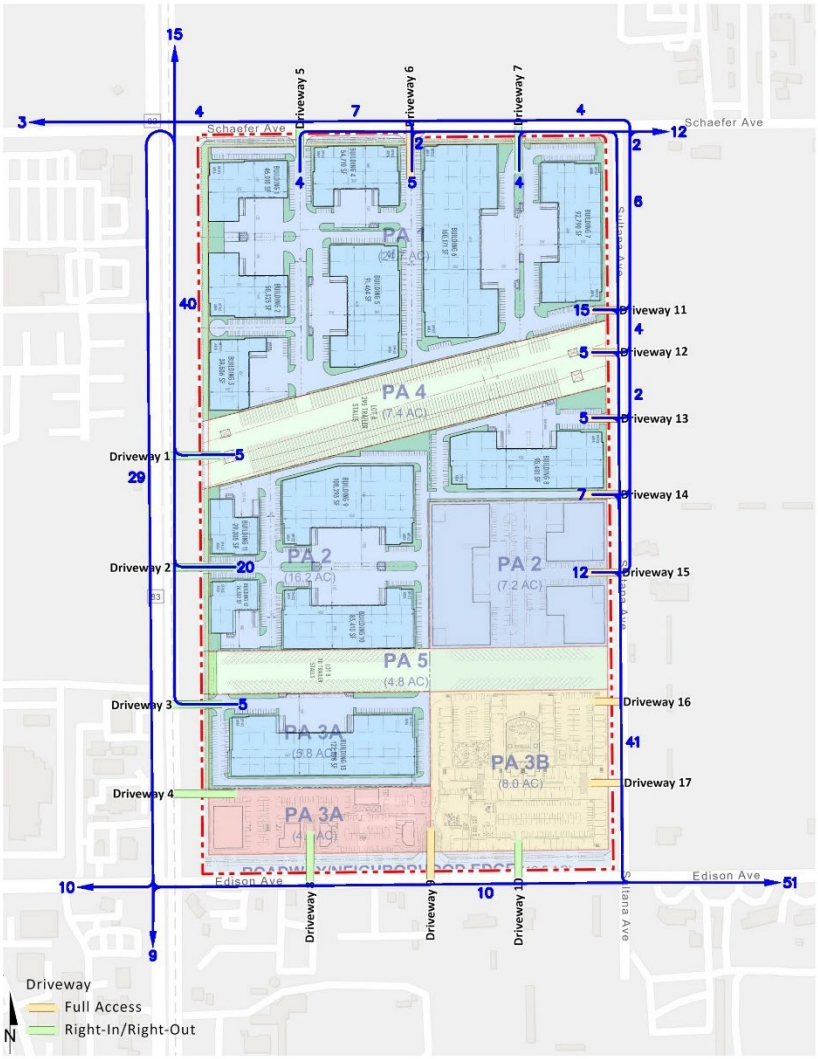
10 = ***Percent To/From Project***

Business Park Passenger Car Inbound Trip Distribution:



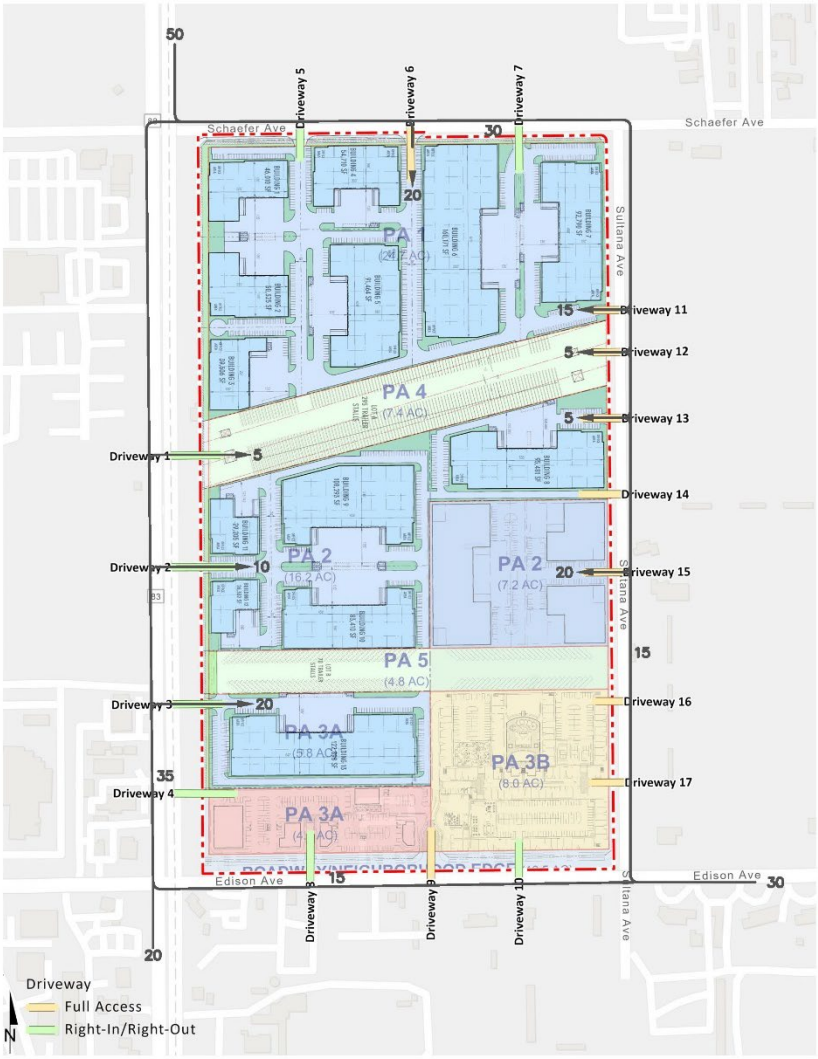
10 = *Percent To/From Project*

Business Park Passenger Car Outbound Trip Distribution:



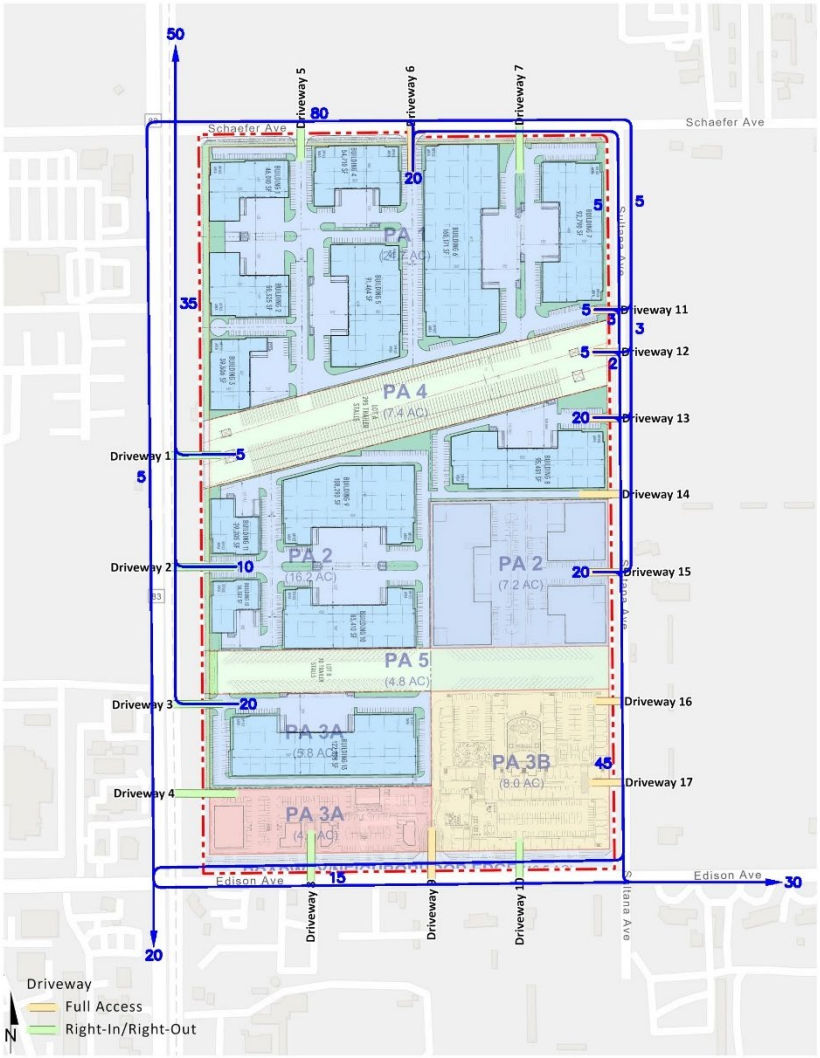
10 = Percent To/From Project

Business Park Truck Inbound Trip Distribution:



10 = *Percent To/From Project*

Business Park Truck Outbound Trip Distribution:



10 = *Percent To/From Project*

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APPENDIX 1.2: SITE ADJACENT QUEUING ANALYSIS WORKSHEETS

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Intersection: 7: Euclid Av. (SR-83) & Driveway 1

Movement	WB
Directions Served	R
Maximum Queue (ft)	31
Average Queue (ft)	3
95th Queue (ft)	18
Link Distance (ft)	484
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 8: Euclid Av. (SR-83) & Driveway 2

Movement	WB
Directions Served	R
Maximum Queue (ft)	35
Average Queue (ft)	8
95th Queue (ft)	31
Link Distance (ft)	378
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 9: Euclid Av. (SR-83) & Driveway 3

Movement	WB
Directions Served	R
Maximum Queue (ft)	35
Average Queue (ft)	12
95th Queue (ft)	37
Link Distance (ft)	416
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 10: Euclid Av. (SR-83) & Driveway 4

Movement	WB
Directions Served	R
Maximum Queue (ft)	62
Average Queue (ft)	30
95th Queue (ft)	53
Link Distance (ft)	354
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 15: Driveway 5 & Schaefer Av.

Movement	NB
Directions Served	R
Maximum Queue (ft)	18
Average Queue (ft)	1
95th Queue (ft)	9
Link Distance (ft)	294
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 16: Driveway 6 & Schaefer Av.

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	6	31
Average Queue (ft)	0	9
95th Queue (ft)	4	32
Link Distance (ft)		338
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 17: Schaefer Av.

Movement	NB
Directions Served	R
Maximum Queue (ft)	18
Average Queue (ft)	1
95th Queue (ft)	9
Link Distance (ft)	311
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Edison Av. & Driveway 8

Movement	EB	SB
Directions Served	T	R
Maximum Queue (ft)	54	75
Average Queue (ft)	2	39
95th Queue (ft)	24	65
Link Distance (ft)	380	325
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 19: Edison Av. & Driveway 9

Movement	EB	EB	WB	SB
Directions Served	L	T	TR	LR
Maximum Queue (ft)	148	263	32	440
Average Queue (ft)	72	14	4	438
95th Queue (ft)	127	108	20	446
Link Distance (ft)		314	343	425
Upstream Blk Time (%)		0		100
Queuing Penalty (veh)		2		0
Storage Bay Dist (ft)	100			
Storage Blk Time (%)	6	0		
Queuing Penalty (veh)	42	0		

Intersection: 20: Edison Av. & Driveway 10

Movement	SB
Directions Served	R
Maximum Queue (ft)	48
Average Queue (ft)	20
95th Queue (ft)	48
Link Distance (ft)	256
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 21: Sultana Av. & Schaefer Av.

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	18	30
Average Queue (ft)	2	3
95th Queue (ft)	13	19
Link Distance (ft)		477
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 22: Sultana Av. & Driveway 11

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	35	18
Average Queue (ft)	10	1
95th Queue (ft)	33	9
Link Distance (ft)	412	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		100
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 23: Sultana Av. & Driveway 12

Movement	EB
Directions Served	LR
Maximum Queue (ft)	31
Average Queue (ft)	3
95th Queue (ft)	20
Link Distance (ft)	414
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 24: Sultana Av. & Driveway 13

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	31	6
Average Queue (ft)	4	0
95th Queue (ft)	21	4
Link Distance (ft)	406	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		100
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 25: Sultana Av. & Driveway 14

Movement	EB
Directions Served	LR
Maximum Queue (ft)	31
Average Queue (ft)	3
95th Queue (ft)	17
Link Distance (ft)	435
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 26: Sultana Av. & Driveway 15

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	31	12
Average Queue (ft)	15	0
95th Queue (ft)	40	6
Link Distance (ft)	454	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		100
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 27: Sultana Av. & Driveway 16

Movement	EB
Directions Served	LR
Maximum Queue (ft)	31
Average Queue (ft)	10
95th Queue (ft)	34
Link Distance (ft)	361
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 28: Sultana Av. & Driveway 17

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	40	12
Average Queue (ft)	16	0
95th Queue (ft)	42	6
Link Distance (ft)	248	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		100
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 29: Edison Av. & Sultana Av.

Movement	EB	SB	SB
Directions Served	L	L	R
Maximum Queue (ft)	18	116	53
Average Queue (ft)	1	47	11
95th Queue (ft)	11	101	41
Link Distance (ft)		261	
Upstream Blk Time (%)			
Queuing Penalty (veh)			
Storage Bay Dist (ft)	100		100
Storage Blk Time (%)		4	
Queuing Penalty (veh)		0	

Network Summary

Network wide Queuing Penalty: 45

Intersection: 7: Euclid Av. (SR-83) & Driveway 1

Movement	WB
Directions Served	R
Maximum Queue (ft)	44
Average Queue (ft)	9
95th Queue (ft)	34
Link Distance (ft)	484
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 8: Euclid Av. (SR-83) & Driveway 2

Movement	WB
Directions Served	R
Maximum Queue (ft)	68
Average Queue (ft)	26
95th Queue (ft)	55
Link Distance (ft)	378
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 9: Euclid Av. (SR-83) & Driveway 3

Movement	WB
Directions Served	R
Maximum Queue (ft)	71
Average Queue (ft)	25
95th Queue (ft)	56
Link Distance (ft)	416
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 10: Euclid Av. (SR-83) & Driveway 4

Movement	WB	NB
Directions Served	R	TR
Maximum Queue (ft)	55	6
Average Queue (ft)	25	0
95th Queue (ft)	53	4
Link Distance (ft)	354	228
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 15: Driveway 5 & Schaefer Av.

Movement	NB
Directions Served	R
Maximum Queue (ft)	36
Average Queue (ft)	6
95th Queue (ft)	26
Link Distance (ft)	294
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 16: Driveway 6 & Schaefer Av.

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	5	36
Average Queue (ft)	0	13
95th Queue (ft)	4	39
Link Distance (ft)		338
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 17: Schaefer Av.

Movement	NB
Directions Served	R
Maximum Queue (ft)	31
Average Queue (ft)	6
95th Queue (ft)	26
Link Distance (ft)	311
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 18: Edison Av. & Driveway 8

Movement	EB	SB
Directions Served	T	R
Maximum Queue (ft)	20	78
Average Queue (ft)	1	36
95th Queue (ft)	14	62
Link Distance (ft)	380	325
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 19: Edison Av. & Driveway 9

Movement	EB	EB	SB
Directions Served	L	T	LR
Maximum Queue (ft)	131	143	440
Average Queue (ft)	57	8	438
95th Queue (ft)	102	79	447
Link Distance (ft)		314	425
Upstream Blk Time (%)		0	100
Queuing Penalty (veh)		0	0
Storage Bay Dist (ft)	100		
Storage Blk Time (%)	2		
Queuing Penalty (veh)	20		

Intersection: 20: Edison Av. & Driveway 10

Movement	SB
Directions Served	R
Maximum Queue (ft)	40
Average Queue (ft)	12
95th Queue (ft)	37
Link Distance (ft)	256
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 21: Sultana Av. & Schaefer Av.

Movement	WB	NB
Directions Served	L	LR
Maximum Queue (ft)	22	31
Average Queue (ft)	2	10
95th Queue (ft)	12	31
Link Distance (ft)		477
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)	100	
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 22: Sultana Av. & Driveway 11

Movement	EB
Directions Served	LR
Maximum Queue (ft)	45
Average Queue (ft)	21
95th Queue (ft)	46
Link Distance (ft)	412
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 23: Sultana Av. & Driveway 12

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	31	6
Average Queue (ft)	9	0
95th Queue (ft)	32	4
Link Distance (ft)	414	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		100
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 24: Sultana Av. & Driveway 13

Movement	EB
Directions Served	LR
Maximum Queue (ft)	31
Average Queue (ft)	10
95th Queue (ft)	33
Link Distance (ft)	406
Upstream Blk Time (%)	
Queuing Penalty (veh)	
Storage Bay Dist (ft)	
Storage Blk Time (%)	
Queuing Penalty (veh)	

Intersection: 25: Sultana Av. & Driveway 14

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	36	6
Average Queue (ft)	12	0
95th Queue (ft)	37	4
Link Distance (ft)	435	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		100
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 26: Sultana Av. & Driveway 15

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	40	17
Average Queue (ft)	21	1
95th Queue (ft)	46	9
Link Distance (ft)	454	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		100
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 27: Sultana Av. & Driveway 16

Movement	EB	NB
Directions Served	LR	L
Maximum Queue (ft)	32	30
Average Queue (ft)	6	2
95th Queue (ft)	27	13
Link Distance (ft)	361	
Upstream Blk Time (%)		
Queuing Penalty (veh)		
Storage Bay Dist (ft)		100
Storage Blk Time (%)		
Queuing Penalty (veh)		

Intersection: 28: Sultana Av. & Driveway 17

Movement	EB	NB	SB
Directions Served	LR	L	TR
Maximum Queue (ft)	48	25	120
Average Queue (ft)	15	2	28
95th Queue (ft)	41	13	124
Link Distance (ft)	248		263
Upstream Blk Time (%)			0
Queuing Penalty (veh)			0
Storage Bay Dist (ft)		100	
Storage Blk Time (%)			
Queuing Penalty (veh)			

Intersection: 29: Edison Av. & Sultana Av.

Movement	EB	WB	SB	SB
Directions Served	L	TR	L	R
Maximum Queue (ft)	29	10	253	150
Average Queue (ft)	3	0	159	30
95th Queue (ft)	17	5	304	123
Link Distance (ft)		3914	261	
Upstream Blk Time (%)			20	
Queuing Penalty (veh)			23	
Storage Bay Dist (ft)	100			100
Storage Blk Time (%)			56	
Queuing Penalty (veh)			7	

Network Summary

Network wide Queuing Penalty: 50

APPENDIX 3.1: TRAFFIC COUNTS – 2022

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Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
Start Date : 5/10/2022

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	144	101	45	245	96	2	30	16	128	50	71	0	0	121	0	0	0	0	0	61	494	555
06:15 AM	0	170	83	31	253	98	0	29	23	127	53	79	0	0	132	0	0	0	0	0	54	512	566
06:30 AM	0	170	72	33	242	97	0	30	21	127	61	105	0	0	166	0	0	0	0	0	54	535	589
06:45 AM	0	140	99	43	239	75	0	54	37	129	63	103	0	0	166	0	0	0	0	0	80	534	614
Total	0	624	355	152	979	366	2	143	97	511	227	358	0	0	585	0	0	0	0	0	249	2075	2324
07:00 AM	0	145	99	48	244	77	0	66	44	143	77	139	0	0	216	0	0	0	0	0	92	603	695
07:15 AM	0	180	97	32	277	79	1	66	35	146	56	187	0	0	243	0	0	0	0	0	67	666	733
07:30 AM	0	176	73	27	249	69	1	80	31	150	66	197	0	0	263	0	0	0	0	0	58	662	720
07:45 AM	0	223	71	27	294	88	1	108	47	197	45	217	0	0	262	0	0	0	0	0	74	753	827
Total	0	724	340	134	1064	313	3	320	157	636	244	740	0	0	984	0	0	0	0	0	291	2684	2975
08:00 AM	0	195	79	29	274	85	1	108	46	194	46	198	0	0	244	0	0	0	0	0	75	712	787
08:15 AM	0	223	66	22	289	93	1	70	37	164	51	152	0	0	203	0	0	0	0	0	59	656	715
08:30 AM	0	173	58	21	231	90	0	114	44	204	43	180	0	0	223	0	0	0	0	0	65	658	723
08:45 AM	0	149	61	24	210	93	0	126	64	219	59	159	0	0	218	0	0	0	0	0	88	647	735
Total	0	740	264	96	1004	361	2	418	191	781	199	689	0	0	888	0	0	0	0	0	287	2673	2960
Grand Total	0	2088	959	382	3047	1040	7	881	445	1928	670	1787	0	0	2457	0	0	0	0	0	827	7432	8259
Apprch %	0	68.5	31.5			53.9	0.4	45.7			27.3	72.7	0			0	0	0					
Total %	0	28.1	12.9		41	14	0.1	11.9		25.9	9	24	0		33.1	0	0	0		0	10	90	
Passenger Vehicles	0	2010	886		3249	707	4	850		1993	459	1642	0		2101	0	0	0		0	0	0	7343
% Passenger Vehicles	0	96.3	92.4	92.4	94.8	68	57.1	96.5	97.1	84	68.5	91.9	0	0	85.5	0	0	0	0	0	0	0	88.9
Large 2 Axle Vehicles	0	32	33		83	49	1	17		73	30	71	0		101	0	0	0		0	0	0	257
% Large 2 Axle Vehicles	0	1.5	3.4	4.7	2.4	4.7	14.3	1.9	1.3	3.1	4.5	4	0	0	4.1	0	0	0	0	0	0	0	3.1
3 Axle Vehicles	0	22	5		28	53	0	8		65	35	18	0		53	0	0	0		0	0	0	146
% 3 Axle Vehicles	0	1.1	0.5	0.3	0.8	5.1	0	0.9	0.9	2.7	5.2	1	0	0	2.2	0	0	0	0	0	0	0	1.8
4+ Axle Trucks	0	24	35		69	231	2	6		242	146	56	0		202	0	0	0		0	0	0	513
% 4+ Axle Trucks	0	1.1	3.6	2.6	2	22.2	28.6	0.7	0.7	10.2	21.8	3.1	0	0	8.2	0	0	0	0	0	0	0	6.2

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

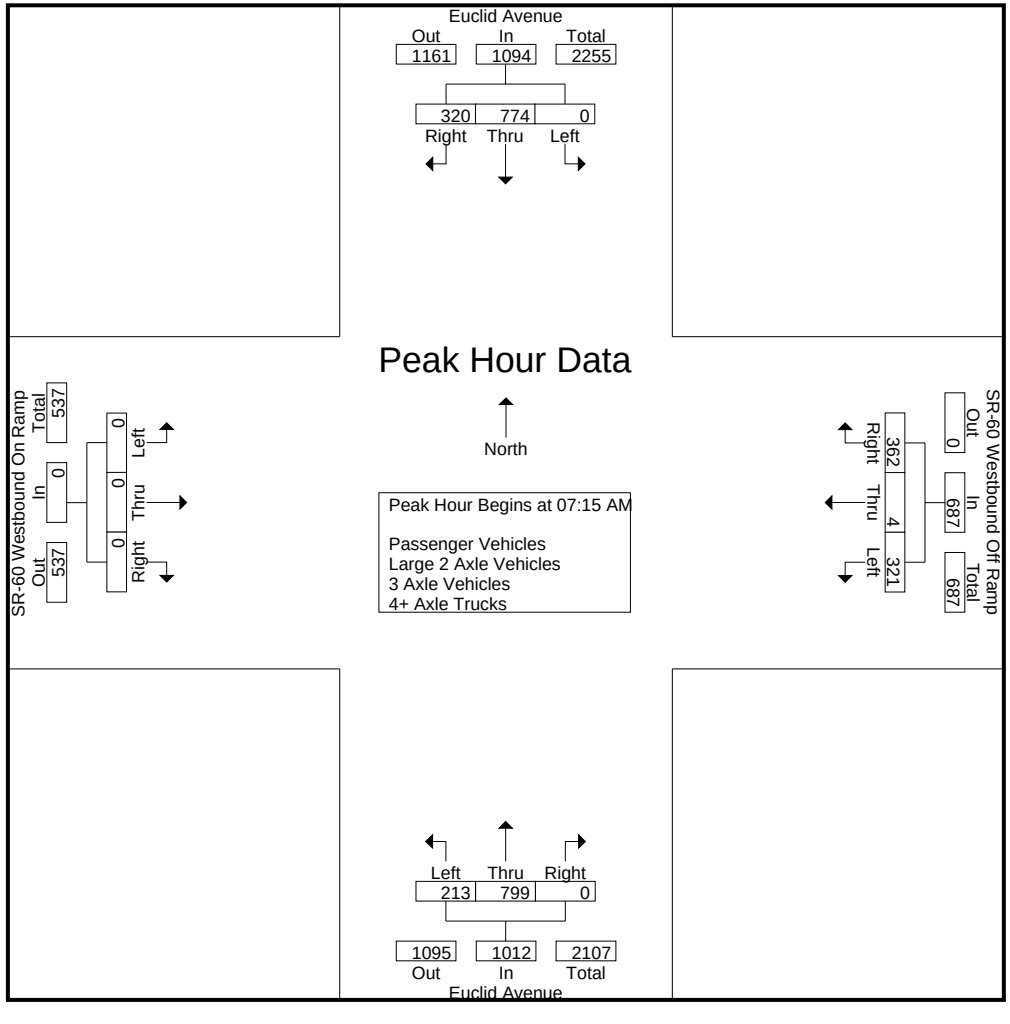
File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	180	**97**	277	79	**1**	66	146	56	187	0	243	0	0	0	0	666
07:30 AM	0	176	73	249	69	1	80	150	**66**	197	0	**263**	0	0	0	0	662
07:45 AM	0	**223**	71	**294**	**88**	1	**108**	**197**	45	**217**	0	262	0	0	0	0	**753**
08:00 AM	0	195	79	274	85	1	108	194	46	198	0	244	0	0	0	0	712
Total Volume	0	774	320	1094	321	4	362	687	213	799	0	1012	0	0	0	0	2793
% App. Total	0	70.7	29.3		46.7	0.6	52.7		21	79	0		0	0	0		
PHF	.000	.868	.825	.930	.912	1.00	.838	.872	.807	.921	.000	.962	.000	.000	.000	.000	.927

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File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				08:00 AM				07:15 AM				06:00 AM				
+0 mins.	0	176	73	249	85	**1**	108	194	56	187	0	243	0	0	0	0	
+15 mins.	0	**223**	71	**294**	**93**	1	70	164	**66**	197	0	**263**	0	0	0	0	
+30 mins.	0	195	**79**	274	90	0	114	204	45	**217**	0	262	0	0	0	0	
+45 mins.	0	223	66	289	93	0	**126**	**219**	46	198	0	244	0	0	0	0	
Total Volume	0	817	289	1106	361	2	418	781	213	799	0	1012	0	0	0	0	
% App. Total	0	73.9	26.1		46.2	0.3	53.5		21	79	0		0	0	0		
PHF	.000	.916	.915	.940	.970	.500	.829	.892	.807	.921	.000	.962	.000	.000	.000	.000	

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City of Ontario
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File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- Passenger Vehicles

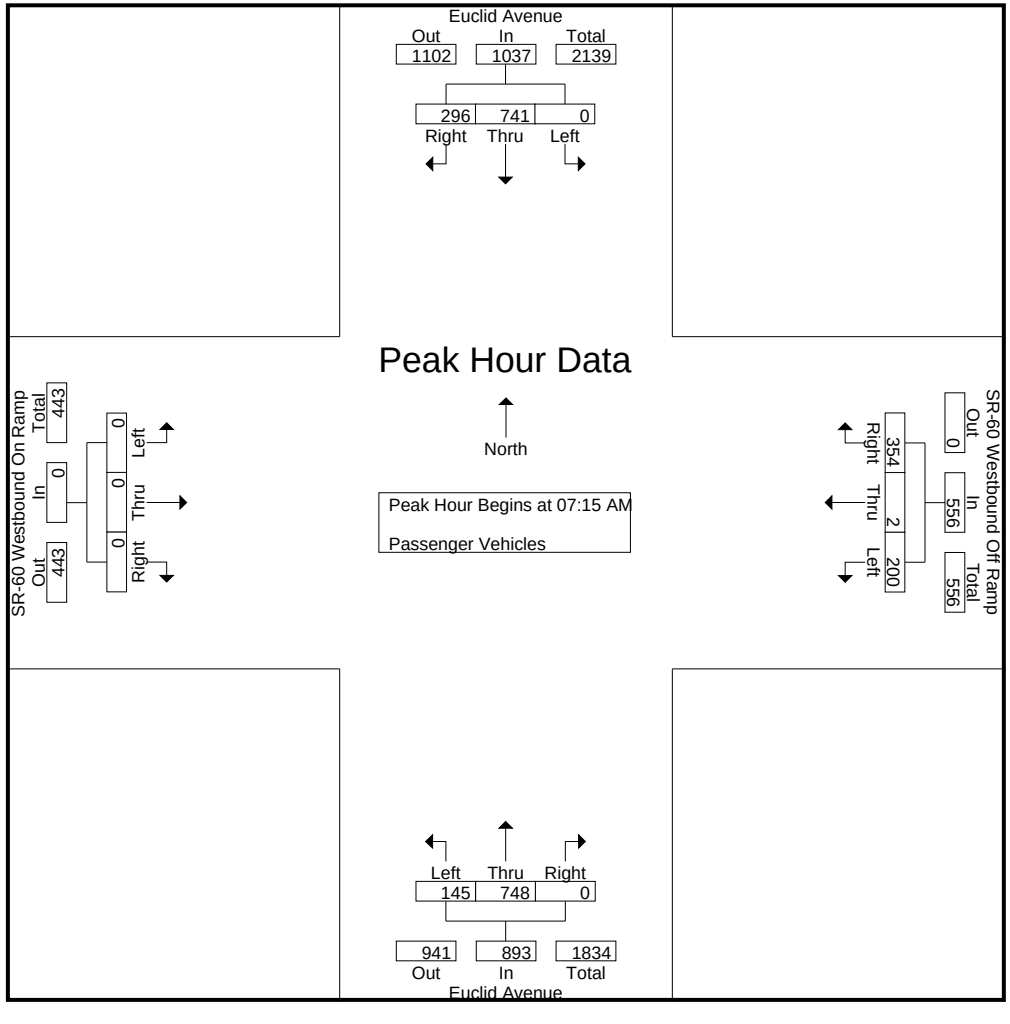
	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	139	95	43	234	70	1	29	16	100	34	67	0	0	101	0	0	0	0	0	59	435	494
06:15 AM	0	165	79	29	244	71	0	28	23	99	32	70	0	0	102	0	0	0	0	0	52	445	497
06:30 AM	0	166	62	25	228	78	0	30	21	108	41	96	0	0	137	0	0	0	0	0	46	473	519
06:45 AM	0	135	92	41	227	47	0	53	36	100	39	89	0	0	128	0	0	0	0	0	77	455	532
Total	0	605	328	138	933	266	1	140	96	407	146	322	0	0	468	0	0	0	0	0	234	1808	2042
07:00 AM	0	138	93	46	231	59	0	65	44	124	57	122	0	0	179	0	0	0	0	0	90	534	624
07:15 AM	0	175	88	29	263	50	0	64	35	114	37	169	0	0	206	0	0	0	0	0	64	583	647
07:30 AM	0	161	69	26	230	44	1	78	30	123	47	187	0	0	234	0	0	0	0	0	56	587	643
07:45 AM	0	217	69	27	286	54	1	106	46	161	29	206	0	0	235	0	0	0	0	0	73	682	755
Total	0	691	319	128	1010	207	2	313	155	522	170	684	0	0	854	0	0	0	0	0	283	2386	2669
08:00 AM	0	188	70	26	258	52	0	106	44	158	32	186	0	0	218	0	0	0	0	0	70	634	704
08:15 AM	0	215	60	19	275	61	1	66	35	128	36	139	0	0	175	0	0	0	0	0	54	578	632
08:30 AM	0	167	51	18	218	63	0	110	42	173	33	165	0	0	198	0	0	0	0	0	60	589	649
08:45 AM	0	144	58	24	202	58	0	115	60	173	42	146	0	0	188	0	0	0	0	0	84	563	647
Total	0	714	239	87	953	234	1	397	181	632	143	636	0	0	779	0	0	0	0	0	268	2364	2632
Grand Total	0	2010	886	353	2896	707	4	850	432	1561	459	1642	0	0	2101	0	0	0	0	0	785	6558	7343
Apprch %	0	69.4	30.6			45.3	0.3	54.5			21.8	78.2	0			0	0	0					
Total %	0	30.6	13.5		44.2	10.8	0.1	13		23.8	7	25	0		32	0	0	0		0	10.7	89.3	

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	175	**88**	263	50	0	64	114	37	169	0	206	0	0	0	0	583
07:30 AM	0	161	69	230	44	**1**	78	123	**47**	187	0	234	0	0	0	0	587
07:45 AM	0	**217**	69	**286**	**54**	1	**106**	**161**	29	**206**	0	**235**	0	0	0	0	**682**
08:00 AM	0	188	70	258	52	0	106	158	32	186	0	218	0	0	0	0	634
Total Volume	0	741	296	1037	200	2	354	556	145	748	0	893	0	0	0	0	2486
% App. Total	0	71.5	28.5		36	0.4	63.7		16.2	83.8	0		0	0	0		
PHF	.000	.854	.841	.906	.926	.500	.835	.863	.771	.908	.000	.950	.000	.000	.000	.000	.911

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
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Site Code : 05122422
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	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:15 AM				07:15 AM				07:15 AM				07:15 AM				
+0 mins.	0	175	**88**	263	50	0	64	114	37	169	0	206	0	0	0	0	
+15 mins.	0	161	69	230	44	**1**	78	123	**47**	187	0	234	0	0	0	0	
+30 mins.	0	**217**	69	**286**	**54**	1	**106**	**161**	29	**206**	0	**235**	0	0	0	0	
+45 mins.	0	188	70	258	52	0	106	158	32	186	0	218	0	0	0	0	
Total Volume	0	741	296	1037	200	2	354	556	145	748	0	893	0	0	0	0	
% App. Total	0	71.5	28.5		36	0.4	63.7		16.2	83.8	0		0	0	0		
PHF	.000	.854	.841	.906	.926	.500	.835	.863	.771	.908	.000	.950	.000	.000	.000	.000	

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File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

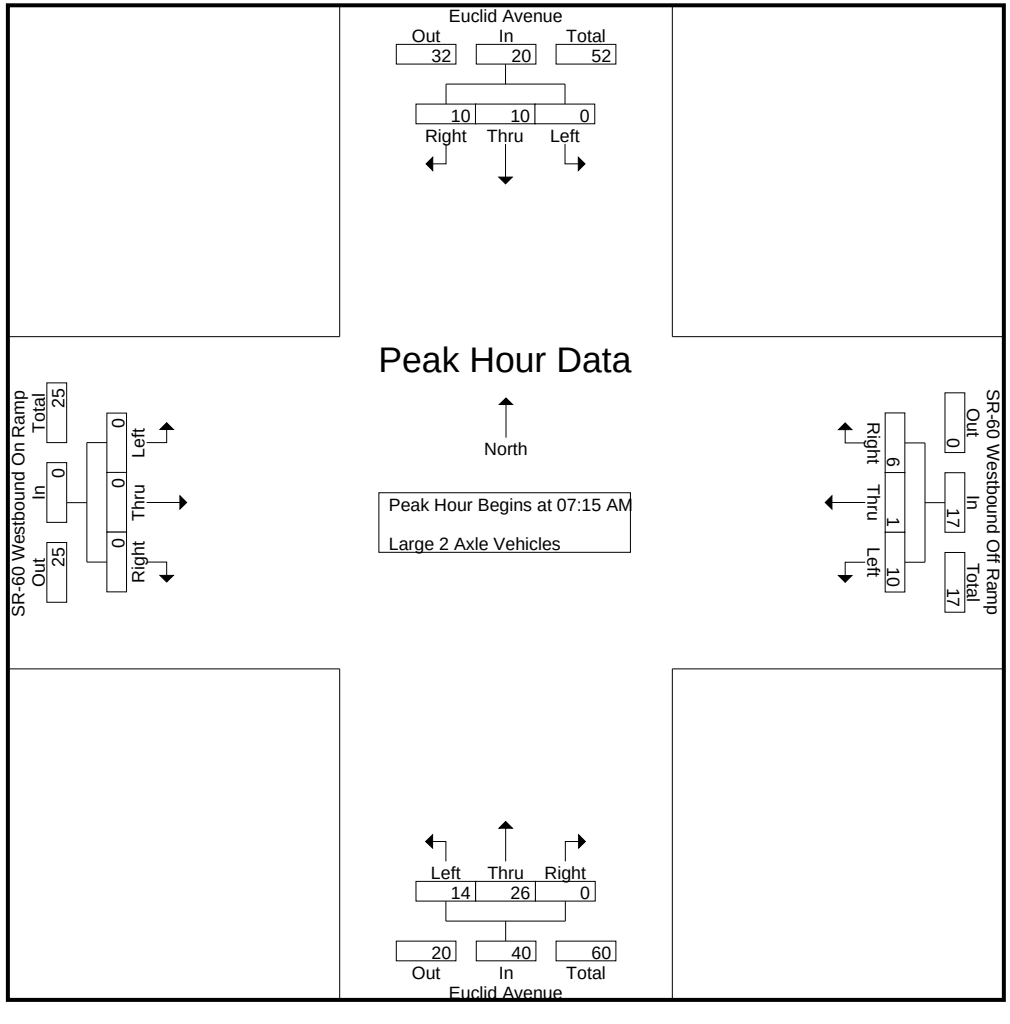
	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	2	5	2	7	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	2	9	11
06:15 AM	0	5	1	0	6	5	0	1	0	6	3	3	0	0	6	0	0	0	0	0	0	18	18
06:30 AM	0	3	8	6	11	5	0	0	0	5	1	8	0	0	9	0	0	0	0	0	6	25	31
06:45 AM	0	2	3	0	5	4	0	1	1	5	1	6	0	0	7	0	0	0	0	0	1	17	18
Total	0	12	17	8	29	16	0	2	1	18	5	17	0	0	22	0	0	0	0	0	9	69	78
07:00 AM	0	3	2	1	5	3	0	1	0	4	5	9	0	0	14	0	0	0	0	0	1	23	24
07:15 AM	0	2	5	3	7	3	1	2	0	6	2	10	0	0	12	0	0	0	0	0	3	25	28
07:30 AM	0	4	2	1	6	3	0	1	0	4	4	5	0	0	9	0	0	0	0	0	1	19	20
07:45 AM	0	1	0	0	1	1	0	2	1	3	4	3	0	0	7	0	0	0	0	0	1	11	12
Total	0	10	9	5	19	10	1	6	1	17	15	27	0	0	42	0	0	0	0	0	6	78	84
08:00 AM	0	3	3	2	6	3	0	1	1	4	4	8	0	0	12	0	0	0	0	0	3	22	25
08:15 AM	0	3	1	1	4	3	0	3	1	6	2	6	0	0	8	0	0	0	0	0	2	18	20
08:30 AM	0	3	3	2	6	8	0	0	0	8	1	7	0	0	8	0	0	0	0	0	2	22	24
08:45 AM	0	1	0	0	1	9	0	5	2	14	3	6	0	0	9	0	0	0	0	0	2	24	26
Total	0	10	7	5	17	23	0	9	4	32	10	27	0	0	37	0	0	0	0	0	9	86	95
Grand Total	0	32	33	18	65	49	1	17	6	67	30	71	0	0	101	0	0	0	0	0	24	233	257
Apprch %	0	49.2	50.8			73.1	1.5	25.4			29.7	70.3	0			0	0	0					
Total %	0	13.7	14.2		27.9	21	0.4	7.3		28.8	12.9	30.5	0		43.3	0	0	0		0	9.3	90.7	

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	2	**5**	**7**	**3**	**1**	**2**	**6**	2	**10**	0	**12**	0	0	0	0	**25**
07:30 AM	0	**4**	2	6	3	0	1	4	**4**	5	0	9	0	0	0	0	19
07:45 AM	0	1	0	1	1	0	2	3	4	3	0	7	0	0	0	0	11
08:00 AM	0	3	3	6	3	0	1	4	4	8	0	12	0	0	0	0	22
Total Volume	0	10	10	20	10	1	6	17	14	26	0	40	0	0	0	0	77
% App. Total	0	50	50		58.8	5.9	35.3		35	65	0		0	0	0		
PHF	.000	.625	.500	.714	.833	.250	.750	.708	.875	.650	.000	.833	.000	.000	.000	.000	.770

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File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
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	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:15 AM				07:15 AM				07:15 AM				07:15 AM				
+0 mins.	0	2	**5**	**7**	**3**	**1**	**2**	**6**	2	**10**	0	**12**	0	0	0	0	
+15 mins.	0	**4**	2	6	3	0	1	4	**4**	5	0	9	0	0	0	0	
+30 mins.	0	1	0	1	1	0	2	3	4	3	0	7	0	0	0	0	
+45 mins.	0	3	3	6	3	0	1	4	4	8	0	12	0	0	0	0	
Total Volume	0	10	10	20	10	1	6	17	14	26	0	40	0	0	0	0	
% App. Total	0	50	50		58.8	5.9	35.3		35	65	0		0	0	0		
PHF	.000	.625	.500	.714	.833	.250	.750	.708	.875	.650	.000	.833	.000	.000	.000	.000	

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File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
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Page No : 1

Groups Printed- 3 Axle Vehicles

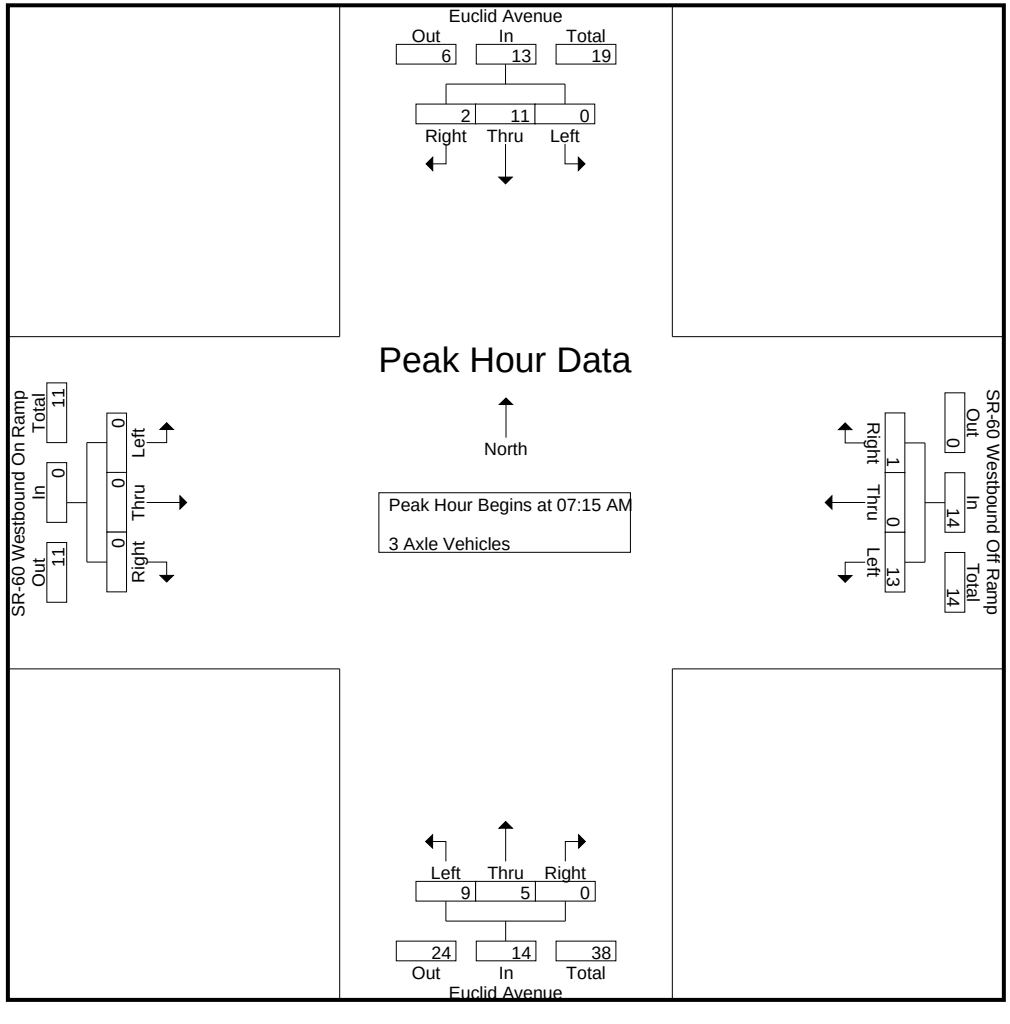
	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	2	0	0	2	8	0	1	0	9	5	0	0	0	5	0	0	0	0	0	0	16	16
06:15 AM	0	0	0	0	0	9	0	0	0	9	3	0	0	0	3	0	0	0	0	0	0	12	12
06:30 AM	0	1	1	1	2	4	0	0	0	4	4	0	0	0	4	0	0	0	0	0	1	10	11
06:45 AM	0	2	0	0	2	5	0	0	0	5	2	3	0	0	5	0	0	0	0	0	0	12	12
Total	0	5	1	1	6	26	0	1	0	27	14	3	0	0	17	0	0	0	0	0	1	50	51
07:00 AM	0	1	1	0	2	3	0	0	0	3	3	3	0	0	6	0	0	0	0	0	0	11	11
07:15 AM	0	0	1	0	1	3	0	0	0	3	1	3	0	0	4	0	0	0	0	0	0	8	8
07:30 AM	0	6	0	0	6	2	0	1	1	3	3	1	0	0	4	0	0	0	0	0	1	13	14
07:45 AM	0	4	0	0	4	3	0	0	0	3	3	1	0	0	4	0	0	0	0	0	0	11	11
Total	0	11	2	0	13	11	0	1	1	12	10	8	0	0	18	0	0	0	0	0	1	43	44
08:00 AM	0	1	1	0	2	5	0	0	0	5	2	0	0	0	2	0	0	0	0	0	0	9	9
08:15 AM	0	2	1	0	3	4	0	1	1	5	2	1	0	0	3	0	0	0	0	0	1	11	12
08:30 AM	0	1	0	0	1	3	0	2	1	5	4	3	0	0	7	0	0	0	0	0	1	13	14
08:45 AM	0	2	0	0	2	4	0	3	1	7	3	3	0	0	6	0	0	0	0	0	1	15	16
Total	0	6	2	0	8	16	0	6	3	22	11	7	0	0	18	0	0	0	0	0	3	48	51
Grand Total	0	22	5	1	27	53	0	8	4	61	35	18	0	0	53	0	0	0	0	0	5	141	146
Apprch %	0	81.5	18.5			86.9	0	13.1			66	34	0			0	0	0					
Total %	0	15.6	3.5		19.1	37.6	0	5.7		43.3	24.8	12.8	0		37.6	0	0	0		0	3.4	96.6	

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	0	**1**	1	3	0	0	3	1	**3**	0	**4**	0	0	0	0	8
07:30 AM	0	**6**	0	**6**	2	0	**1**	3	**3**	1	0	4	0	0	0	0	**13**
07:45 AM	0	4	0	4	3	0	0	3	3	1	0	4	0	0	0	0	11
08:00 AM	0	1	1	2	**5**	0	0	**5**	2	0	0	2	0	0	0	0	9
Total Volume	0	11	2	13	13	0	1	14	9	5	0	14	0	0	0	0	41
% App. Total	0	84.6	15.4		92.9	0	7.1		64.3	35.7	0		0	0	0		
PHF	.000	.458	.500	.542	.650	.000	.250	.700	.750	.417	.000	.875	.000	.000	.000	.000	.788

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:15 AM				07:15 AM				07:15 AM				07:15 AM				
+0 mins.	0	0	**1**	1	3	0	0	3	1	**3**	0	**4**	0	0	0	0	
+15 mins.	0	**6**	0	**6**	2	0	**1**	3	**3**	1	0	4	0	0	0	0	
+30 mins.	0	4	0	4	3	0	0	3	3	1	0	4	0	0	0	0	
+45 mins.	0	1	1	2	**5**	0	0	**5**	2	0	0	2	0	0	0	0	
Total Volume	0	11	2	13	13	0	1	14	9	5	0	14	0	0	0	0	
% App. Total	0	84.6	15.4		92.9	0	7.1		64.3	35.7	0		0	0	0		
PHF	.000	.458	.500	.542	.650	.000	.250	.700	.750	.417	.000	.875	.000	.000	.000	.000	

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File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
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Page No : 1

Groups Printed- 4+ Axle Trucks

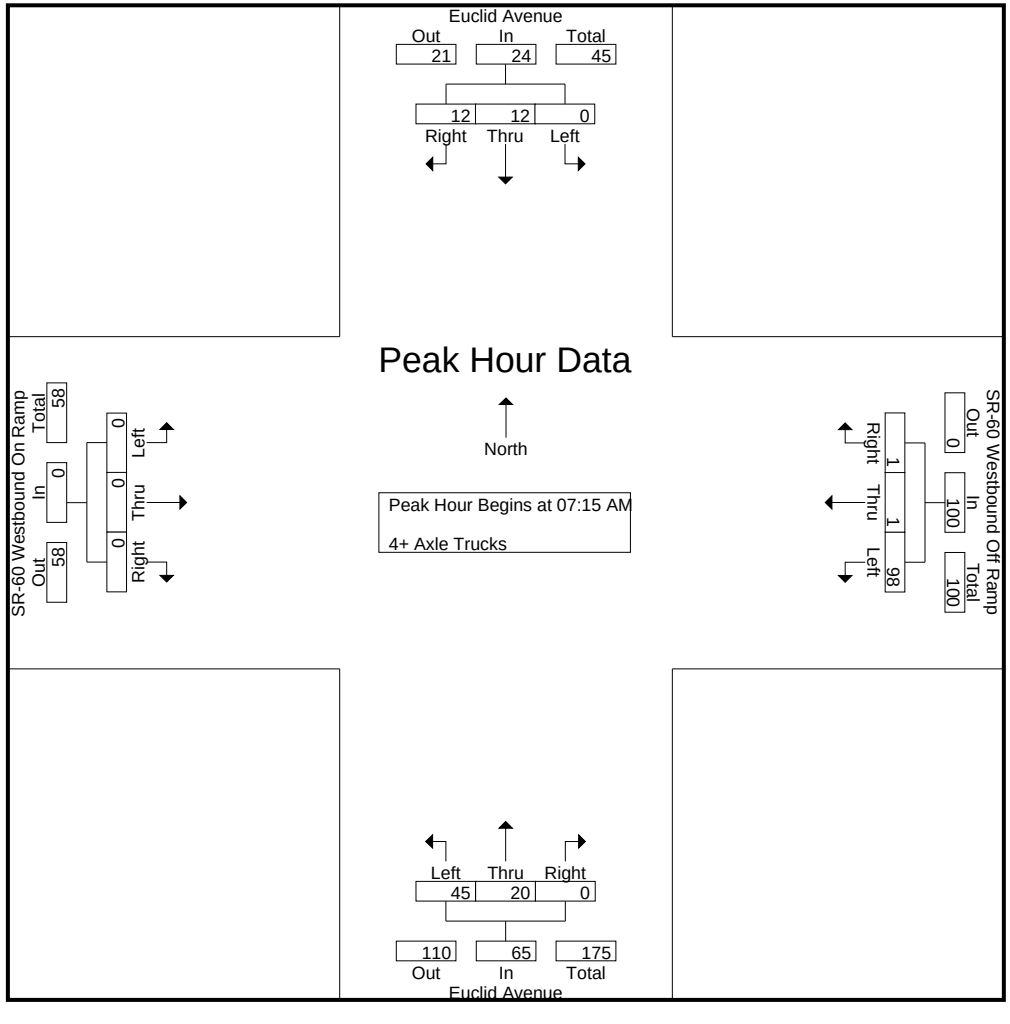
	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	1	1	0	2	16	1	0	0	17	11	4	0	0	15	0	0	0	0	0	0	34	34
06:15 AM	0	0	3	2	3	13	0	0	0	13	15	6	0	0	21	0	0	0	0	0	2	37	39
06:30 AM	0	0	1	1	1	10	0	0	0	10	15	1	0	0	16	0	0	0	0	0	1	27	28
06:45 AM	0	1	4	2	5	19	0	0	0	19	21	5	0	0	26	0	0	0	0	0	2	50	52
Total	0	2	9	5	11	58	1	0	0	59	62	16	0	0	78	0	0	0	0	0	5	148	153
07:00 AM	0	3	3	1	6	12	0	0	0	12	12	5	0	0	17	0	0	0	0	0	1	35	36
07:15 AM	0	3	3	0	6	23	0	0	0	23	16	5	0	0	21	0	0	0	0	0	0	50	50
07:30 AM	0	5	2	0	7	20	0	0	0	20	12	4	0	0	16	0	0	0	0	0	0	43	43
07:45 AM	0	1	2	0	3	30	0	0	0	30	9	7	0	0	16	0	0	0	0	0	0	49	49
Total	0	12	10	1	22	85	0	0	0	85	49	21	0	0	70	0	0	0	0	0	1	177	178
08:00 AM	0	3	5	1	8	25	1	1	1	27	8	4	0	0	12	0	0	0	0	0	2	47	49
08:15 AM	0	3	4	2	7	25	0	0	0	25	11	6	0	0	17	0	0	0	0	0	2	49	51
08:30 AM	0	2	4	1	6	16	0	2	1	18	5	5	0	0	10	0	0	0	0	0	2	34	36
08:45 AM	0	2	3	0	5	22	0	3	1	25	11	4	0	0	15	0	0	0	0	0	1	45	46
Total	0	10	16	4	26	88	1	6	3	95	35	19	0	0	54	0	0	0	0	0	7	175	182
Grand Total	0	24	35	10	59	231	2	6	3	239	146	56	0	0	202	0	0	0	0	0	13	500	513
Apprch %	0	40.7	59.3			96.7	0.8	2.5			72.3	27.7	0			0	0	0					
Total %	0	4.8	7		11.8	46.2	0.4	1.2		47.8	29.2	11.2	0		40.4	0	0	0		0	2.5	97.5	

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:15 AM																	
07:15 AM	0	3	3	6	23	0	0	23	**16**	5	0	**21**	0	0	0	0	**50**
07:30 AM	0	**5**	2	7	20	0	0	20	12	4	0	16	0	0	0	0	43
07:45 AM	0	1	2	3	**30**	0	0	**30**	9	**7**	0	16	0	0	0	0	49
08:00 AM	0	3	**5**	**8**	25	**1**	**1**	27	8	4	0	12	0	0	0	0	47
Total Volume	0	12	12	24	98	1	1	100	45	20	0	65	0	0	0	0	189
% App. Total	0	50	50		98	1	1		69.2	30.8	0		0	0	0		
PHF	.000	.600	.600	.750	.817	.250	.250	.833	.703	.714	.000	.774	.000	.000	.000	.000	.945

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City of Ontario
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File Name : 10_ONT_Eu_60W AM
Site Code : 05122422
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	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:15 AM to 08:00 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:15 AM				07:15 AM				07:15 AM				07:15 AM				
+0 mins.	0	3	3	6	23	0	0	23	**16**	5	0	**21**	0	0	0	0	
+15 mins.	0	**5**	2	7	20	0	0	20	12	4	0	16	0	0	0	0	
+30 mins.	0	1	2	3	**30**	0	0	**30**	9	**7**	0	16	0	0	0	0	
+45 mins.	0	3	**5**	**8**	25	**1**	**1**	27	8	4	0	12	0	0	0	0	
Total Volume	0	12	12	24	98	1	1	100	45	20	0	65	0	0	0	0	
% App. Total	0	50	50		98	1	1		69.2	30.8	0		0	0	0		
PHF	.000	.600	.600	.750	.817	.250	.250	.833	.703	.714	.000	.774	.000	.000	.000	.000	

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	219	108	52	327	105	0	99	39	204	48	176	0	0	224	0	0	0	0	0	91	755	846
04:15 PM	0	170	86	42	256	94	1	96	41	191	50	209	0	0	259	0	0	0	0	0	83	706	789
04:30 PM	0	216	112	57	328	123	0	84	40	207	69	213	0	0	282	0	0	0	0	0	97	817	914
04:45 PM	0	231	93	43	324	107	1	90	46	198	45	195	0	0	240	0	0	0	0	0	89	762	851
Total	0	836	399	194	1235	429	2	369	166	800	212	793	0	0	1005	0	0	0	0	0	360	3040	3400
05:00 PM	0	183	108	58	291	107	1	82	35	190	59	172	0	0	231	0	0	0	0	0	93	712	805
05:15 PM	0	200	118	56	318	113	2	74	34	189	69	216	0	0	285	0	0	0	0	0	90	792	882
05:30 PM	0	203	97	38	300	118	2	80	29	200	68	192	0	0	260	0	0	0	0	0	67	760	827
05:45 PM	0	228	131	61	359	104	0	83	45	187	46	192	0	0	238	0	0	0	0	0	106	784	890
Total	0	814	454	213	1268	442	5	319	143	766	242	772	0	0	1014	0	0	0	0	0	356	3048	3404
06:00 PM	0	191	78	31	269	118	2	100	37	220	58	212	0	0	270	0	0	0	0	0	68	759	827
06:15 PM	0	151	77	47	228	88	0	75	36	163	53	187	0	0	240	0	0	0	0	0	83	631	714
06:30 PM	0	173	69	33	242	81	2	84	37	167	47	191	0	0	238	0	0	0	0	0	70	647	717
06:45 PM	0	151	73	38	224	70	1	78	33	149	46	164	0	0	210	0	0	0	0	0	71	583	654
Total	0	666	297	149	963	357	5	337	143	699	204	754	0	0	958	0	0	0	0	0	292	2620	2912
Grand Total	0	2316	1150	556	3466	1228	12	1025	452	2265	658	2319	0	0	2977	0	0	0	0	0	1008	8708	9716
Apprch %	0	66.8	33.2			54.2	0.5	45.3			22.1	77.9	0			0	0	0					
Total %	0	26.6	13.2		39.8	14.1	0.1	11.8		26	7.6	26.6	0		34.2	0	0	0		0	10.4	89.6	
Passenger Vehicles	0	2262	1108		3911	944	11	998		2397	554	2210	0		2764	0	0	0		0	0	0	9072
% Passenger Vehicles	0	97.7	96.3	97.3	97.2	76.9	91.7	97.4	98.2	88.2	84.2	95.3	0	0	92.8	0	0	0	0	0	0	0	93.4
Large 2 Axle Vehicles	0	33	11		47	46	1	13		65	14	45	0		59	0	0	0		0	0	0	171
% Large 2 Axle Vehicles	0	1.4	1	0.5	1.2	3.7	8.3	1.3	1.1	2.4	2.1	1.9	0	0	2	0	0	0	0	0	0	0	1.8
3 Axle Vehicles	0	3	3		8	46	0	3		50	17	23	0		40	0	0	0		0	0	0	98
% 3 Axle Vehicles	0	0.1	0.3	0.4	0.2	3.7	0	0.3	0.2	1.8	2.6	1	0	0	1.3	0	0	0	0	0	0	0	1
4+ Axle Trucks	0	18	28		56	192	0	11		205	73	41	0		114	0	0	0		0	0	0	375
% 4+ Axle Trucks	0	0.8	2.4	1.8	1.4	15.6	0	1.1	0.4	7.5	11.1	1.8	0	0	3.8	0	0	0	0	0	0	0	3.9

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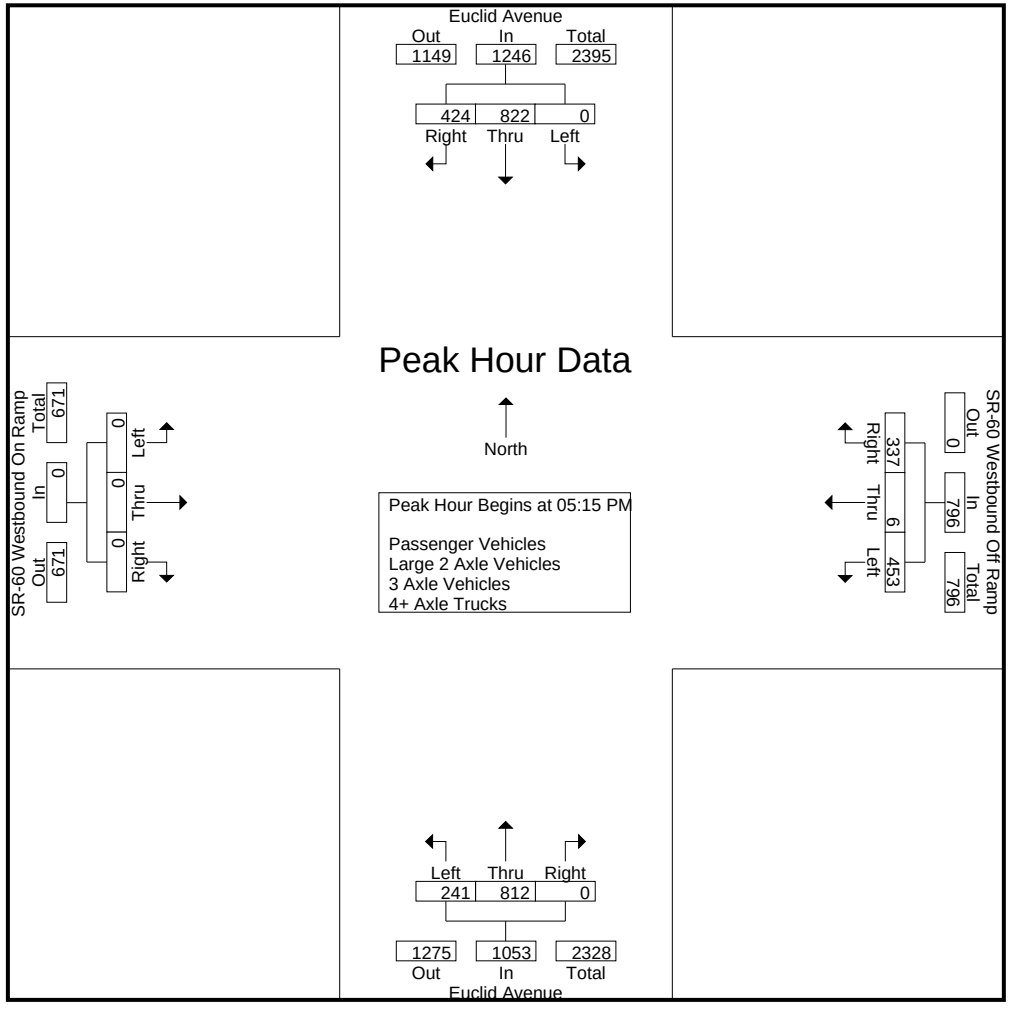
File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	0	200	118	318	113	**2**	74	189	**69**	**216**	0	**285**	0	0	0	0	**792**
05:30 PM	0	203	97	300	**118**	2	80	200	68	192	0	260	0	0	0	0	760
05:45 PM	0	**228**	**131**	**359**	104	0	83	187	46	192	0	238	0	0	0	0	784
06:00 PM	0	191	78	269	118	2	**100**	**220**	58	212	0	270	0	0	0	0	759
Total Volume	0	822	424	1246	453	6	337	796	241	812	0	1053	0	0	0	0	3095
% App. Total	0	66	34		56.9	0.8	42.3		22.9	77.1	0		0	0	0		
PHF	.000	.901	.809	.868	.960	.750	.843	.905	.873	.940	.000	.924	.000	.000	.000	.000	.977

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Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				04:00 PM				05:15 PM				04:00 PM				
+0 mins.	0	183	108	291	105	0	**99**	204	**69**	**216**	0	**285**	0	0	0	0	
+15 mins.	0	200	118	318	94	**1**	96	191	68	192	0	260	0	0	0	0	
+30 mins.	0	203	97	300	**123**	0	84	**207**	46	192	0	238	0	0	0	0	
+45 mins.	0	**228**	**131**	**359**	107	1	90	198	58	212	0	270	0	0	0	0	
Total Volume	0	814	454	1268	429	2	369	800	241	812	0	1053	0	0	0	0	
% App. Total	0	64.2	35.8		53.6	0.2	46.1		22.9	77.1	0		0	0	0		
PHF	.000	.893	.866	.883	.872	.500	.932	.966	.873	.940	.000	.924	.000	.000	.000	.000	

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Groups Printed- Passenger Vehicles

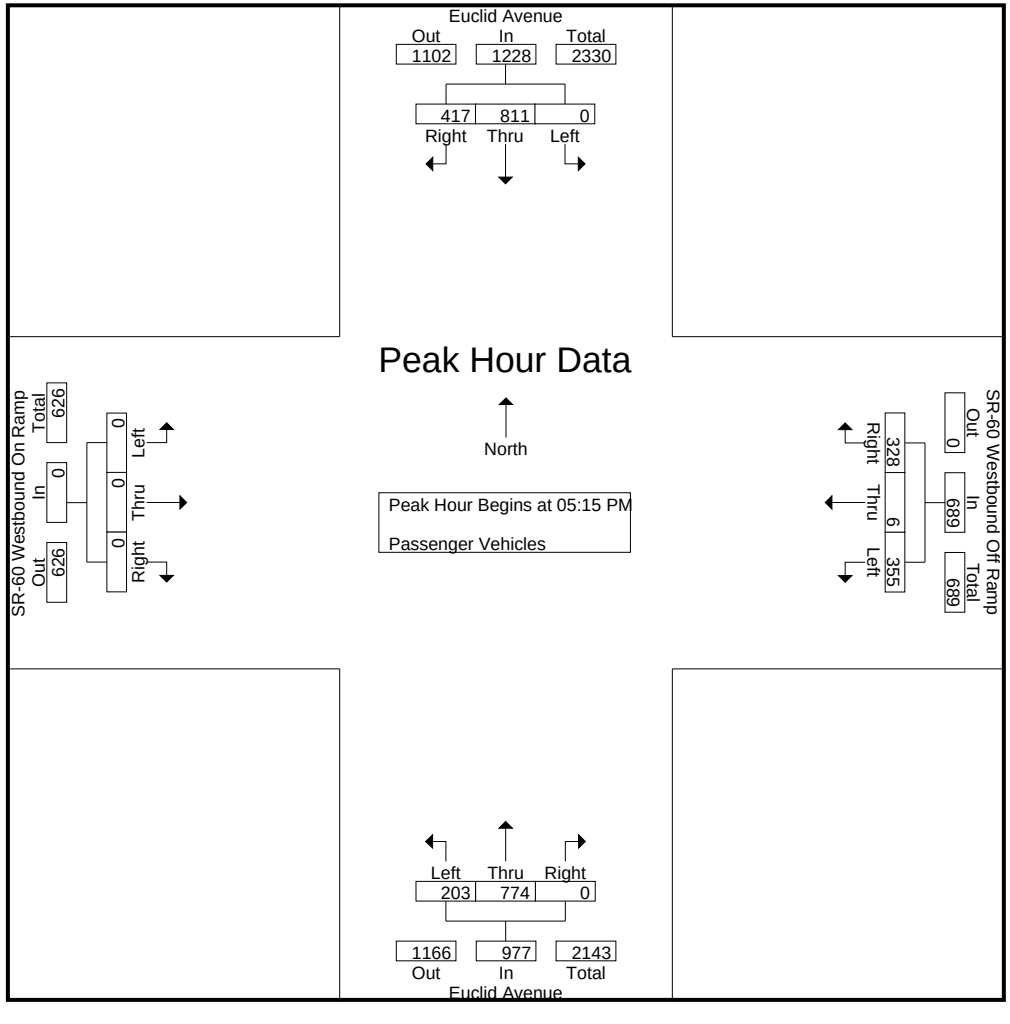
	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	214	102	51	316	80	0	95	38	175	39	165	0	0	204	0	0	0	0	0	89	695	784
04:15 PM	0	160	81	39	241	74	1	92	40	167	43	193	0	0	236	0	0	0	0	0	79	644	723
04:30 PM	0	207	107	56	314	96	0	82	40	178	64	205	0	0	269	0	0	0	0	0	96	761	857
04:45 PM	0	225	89	40	314	77	1	88	46	166	33	184	0	0	217	0	0	0	0	0	86	697	783
Total	0	806	379	186	1185	327	2	357	164	686	179	747	0	0	926	0	0	0	0	0	350	2797	3147
05:00 PM	0	179	103	56	282	91	1	80	34	172	52	166	0	0	218	0	0	0	0	0	90	672	762
05:15 PM	0	199	117	56	316	92	2	72	34	166	60	205	0	0	265	0	0	0	0	0	90	747	837
05:30 PM	0	202	94	37	296	87	2	78	28	167	52	180	0	0	232	0	0	0	0	0	65	695	760
05:45 PM	0	222	129	60	351	81	0	82	45	163	39	188	0	0	227	0	0	0	0	0	105	741	846
Total	0	802	443	209	1245	351	5	312	141	668	203	739	0	0	942	0	0	0	0	0	350	2855	3205
06:00 PM	0	188	77	30	265	95	2	96	34	193	52	201	0	0	253	0	0	0	0	0	64	711	775
06:15 PM	0	146	73	46	219	62	0	74	35	136	42	179	0	0	221	0	0	0	0	0	81	576	657
06:30 PM	0	172	66	33	238	58	1	82	37	141	40	186	0	0	226	0	0	0	0	0	70	605	675
06:45 PM	0	148	70	37	218	51	1	77	33	129	38	158	0	0	196	0	0	0	0	0	70	543	613
Total	0	654	286	146	940	266	4	329	139	599	172	724	0	0	896	0	0	0	0	0	285	2435	2720
Grand Total	0	2262	1108	541	3370	944	11	998	444	1953	554	2210	0	0	2764	0	0	0	0	0	985	8087	9072
Apprch %	0	67.1	32.9			48.3	0.6	51.1			20	80	0			0	0	0					
Total %	0	28	13.7		41.7	11.7	0.1	12.3		24.1	6.9	27.3	0		34.2	0	0	0		0	10.9	89.1	

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	0	199	117	316	92	**2**	72	166	**60**	**205**	0	**265**	0	0	0	0	**747**
05:30 PM	0	202	94	296	87	2	78	167	52	180	0	232	0	0	0	0	695
05:45 PM	0	**222**	**129**	**351**	81	0	82	163	39	188	0	227	0	0	0	0	741
06:00 PM	0	188	77	265	**95**	2	**96**	**193**	52	201	0	253	0	0	0	0	711
Total Volume	0	811	417	1228	355	6	328	689	203	774	0	977	0	0	0	0	2894
% App. Total	0	66	34		51.5	0.9	47.6		20.8	79.2	0		0	0	0		
PHF	.000	.913	.808	.875	.934	.750	.854	.892	.846	.944	.000	.922	.000	.000	.000	.000	.969

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:15 PM				05:15 PM				05:15 PM				05:15 PM				
+0 mins.	0	199	117	316	92	**2**	72	166	**60**	**205**	0	**265**	0	0	0	0	
+15 mins.	0	202	94	296	87	2	78	167	52	180	0	232	0	0	0	0	
+30 mins.	0	**222**	**129**	**351**	81	0	82	163	39	188	0	227	0	0	0	0	
+45 mins.	0	188	77	265	**95**	2	**96**	**193**	52	201	0	253	0	0	0	0	
Total Volume	0	811	417	1228	355	6	328	689	203	774	0	977	0	0	0	0	
% App. Total	0	66	34		51.5	0.9	47.6		20.8	79.2	0		0	0	0		
PHF	.000	.913	.808	.875	.934	.750	.854	.892	.846	.944	.000	.922	.000	.000	.000	.000	

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

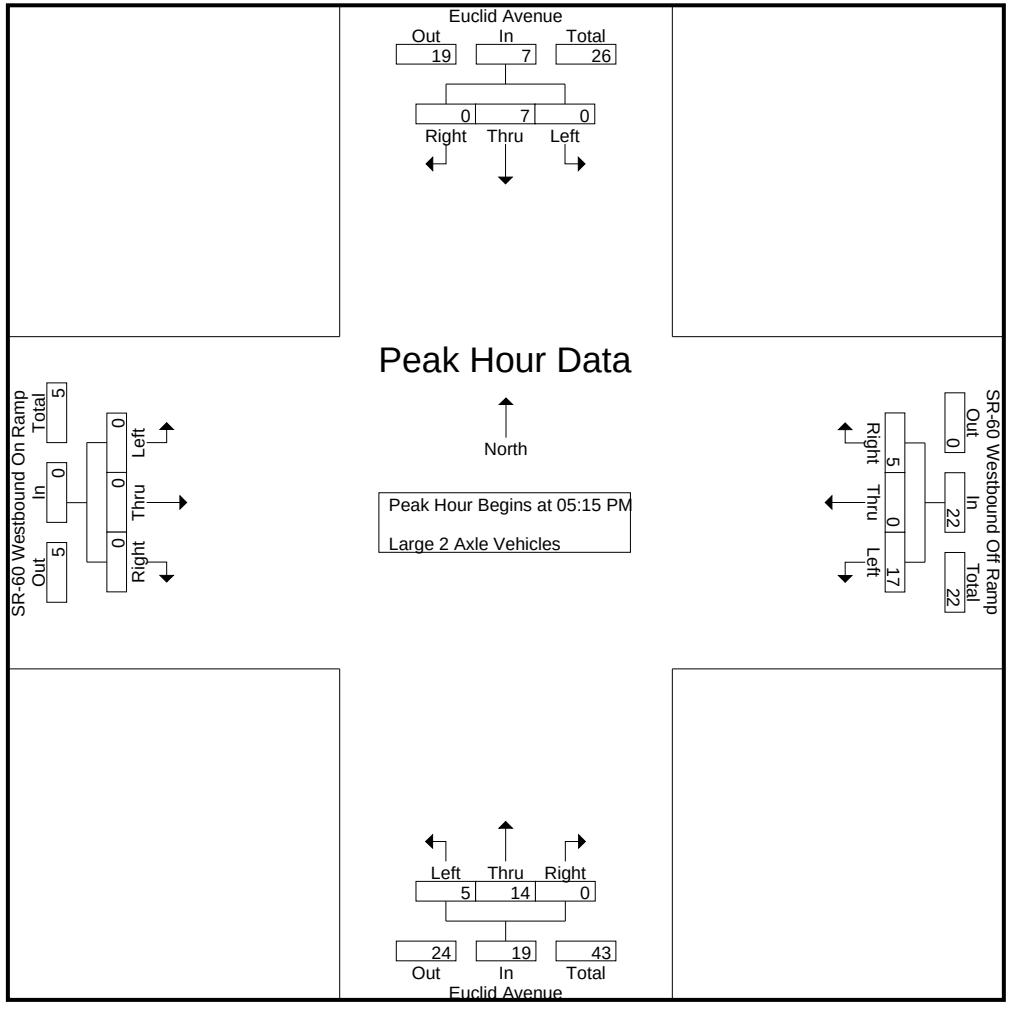
	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	4	2	0	6	1	0	0	0	1	2	7	0	0	9	0	0	0	0	0	0	16	16
04:15 PM	0	7	1	0	8	2	0	2	1	4	2	7	0	0	9	0	0	0	0	0	1	21	22
04:30 PM	0	6	1	0	7	5	0	1	0	6	1	5	0	0	6	0	0	0	0	0	0	19	19
04:45 PM	0	5	1	1	6	6	0	2	0	8	2	5	0	0	7	0	0	0	0	0	1	21	22
Total	0	22	5	1	27	14	0	5	1	19	7	24	0	0	31	0	0	0	0	0	2	77	79
05:00 PM	0	2	1	1	3	5	0	0	0	5	1	3	0	0	4	0	0	0	0	0	1	12	13
05:15 PM	0	1	0	0	1	4	0	0	0	4	3	3	0	0	6	0	0	0	0	0	0	11	11
05:30 PM	0	1	0	0	1	4	0	2	1	6	1	5	0	0	6	0	0	0	0	0	1	13	14
05:45 PM	0	4	0	0	4	6	0	0	0	6	0	1	0	0	1	0	0	0	0	0	0	11	11
Total	0	8	1	1	9	19	0	2	1	21	5	12	0	0	17	0	0	0	0	0	2	47	49
06:00 PM	0	1	0	0	1	3	0	3	2	6	1	5	0	0	6	0	0	0	0	0	2	13	15
06:15 PM	0	1	2	1	3	6	0	1	1	7	0	2	0	0	2	0	0	0	0	0	2	12	14
06:30 PM	0	1	2	0	3	2	1	1	0	4	0	1	0	0	1	0	0	0	0	0	0	8	8
06:45 PM	0	0	1	0	1	2	0	1	0	3	1	1	0	0	2	0	0	0	0	0	0	6	6
Total	0	3	5	1	8	13	1	6	3	20	2	9	0	0	11	0	0	0	0	0	4	39	43
Grand Total	0	33	11	3	44	46	1	13	5	60	14	45	0	0	59	0	0	0	0	0	8	163	171
Apprch %	0	75	25			76.7	1.7	21.7			23.7	76.3	0			0	0	0					
Total %	0	20.2	6.7		27	28.2	0.6	8		36.8	8.6	27.6	0		36.2	0	0	0		0	4.7	95.3	

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	0	1	0	1	4	0	0	4	**3**	3	0	**6**	0	0	0	0	11
05:30 PM	0	1	0	1	4	0	2	**6**	1	**5**	0	6	0	0	0	0	**13**
05:45 PM	0	**4**	0	**4**	**6**	0	0	6	0	1	0	1	0	0	0	0	11
06:00 PM	0	1	0	1	3	0	**3**	6	1	5	0	6	0	0	0	0	13
Total Volume	0	7	0	7	17	0	5	22	5	14	0	19	0	0	0	0	48
% App. Total	0	100	0		77.3	0	22.7		26.3	73.7	0		0	0	0		
PHF	.000	.438	.000	.438	.708	.000	.417	.917	.417	.700	.000	.792	.000	.000	.000	.000	.923

Counts Unlimited, Inc.
PO Box 1178
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(951)268-6268

City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:15 PM				05:15 PM				05:15 PM				05:15 PM				
+0 mins.	0	1	0	1	4	0	0	4	**3**	3	0	**6**	0	0	0	0	
+15 mins.	0	1	0	1	4	0	2	**6**	1	**5**	0	6	0	0	0	0	
+30 mins.	0	**4**	0	**4**	**6**	0	0	6	0	1	0	1	0	0	0	0	
+45 mins.	0	1	0	1	3	0	**3**	6	1	5	0	6	0	0	0	0	
Total Volume	0	7	0	7	17	0	5	22	5	14	0	19	0	0	0	0	
% App. Total	0	100	0		77.3	0	22.7		26.3	73.7	0		0	0	0		
PHF	.000	.438	.000	.438	.708	.000	.417	.917	.417	.700	.000	.792	.000	.000	.000	.000	

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

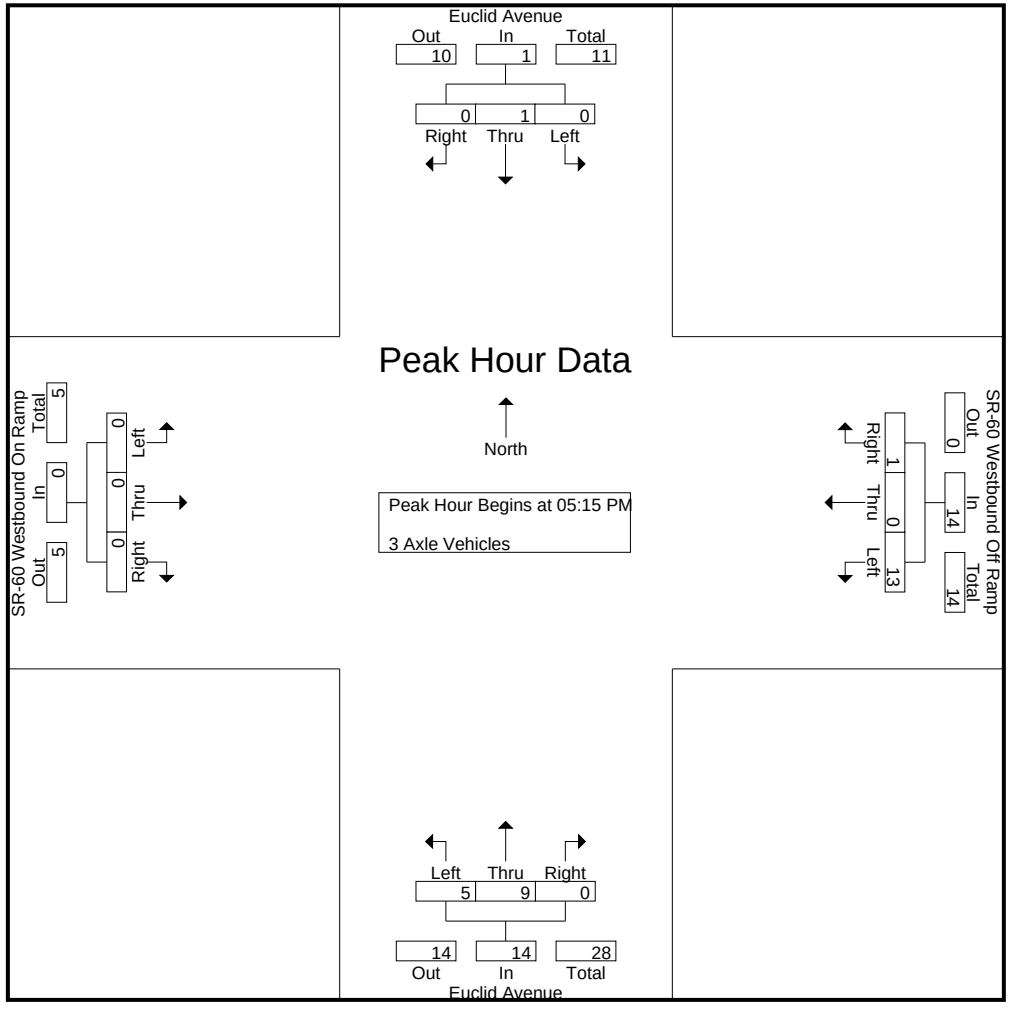
	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	0	1	1	1	4	0	1	0	5	2	3	0	0	5	0	0	0	0	0	1	11	12
04:15 PM	0	0	1	1	1	5	0	1	0	6	0	4	0	0	4	0	0	0	0	0	1	11	12
04:30 PM	0	1	0	0	1	3	0	0	0	3	2	1	0	0	3	0	0	0	0	0	0	7	7
04:45 PM	0	0	0	0	0	6	0	0	0	6	4	1	0	0	5	0	0	0	0	0	0	11	11
Total	0	1	2	2	3	18	0	2	0	20	8	9	0	0	17	0	0	0	0	0	2	40	42
05:00 PM	0	0	0	0	0	3	0	0	0	3	0	1	0	0	1	0	0	0	0	0	0	4	4
05:15 PM	0	0	0	0	0	3	0	0	0	3	0	3	0	0	3	0	0	0	0	0	0	6	6
05:30 PM	0	0	0	0	0	3	0	0	0	3	2	0	0	0	2	0	0	0	0	0	0	5	5
05:45 PM	0	1	0	0	1	3	0	0	0	3	0	3	0	0	3	0	0	0	0	0	0	7	7
Total	0	1	0	0	1	12	0	0	0	12	2	7	0	0	9	0	0	0	0	0	0	22	22
06:00 PM	0	0	0	0	0	4	0	1	1	5	3	3	0	0	6	0	0	0	0	0	1	11	12
06:15 PM	0	0	1	0	1	6	0	0	0	6	1	2	0	0	3	0	0	0	0	0	0	10	10
06:30 PM	0	0	0	0	0	4	0	0	0	4	1	1	0	0	2	0	0	0	0	0	0	6	6
06:45 PM	0	1	0	0	1	2	0	0	0	2	2	1	0	0	3	0	0	0	0	0	0	6	6
Total	0	1	1	0	2	16	0	1	1	17	7	7	0	0	14	0	0	0	0	0	1	33	34
Grand Total	0	3	3	2	6	46	0	3	1	49	17	23	0	0	40	0	0	0	0	0	3	95	98
Apprch %	0	50	50			93.9	0	6.1			42.5	57.5	0			0	0	0					
Total %	0	3.2	3.2		6.3	48.4	0	3.2		51.6	17.9	24.2	0		42.1	0	0	0		0	3.1	96.9	

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	0	0	0	0	3	0	0	3	0	**3**	0	3	0	0	0	0	6
05:30 PM	0	0	0	0	3	0	0	3	2	0	0	2	0	0	0	0	5
05:45 PM	0	**1**	0	**1**	3	0	0	3	0	3	0	3	0	0	0	0	7
06:00 PM	0	0	0	0	**4**	0	**1**	**5**	**3**	3	0	**6**	0	0	0	0	**11**
Total Volume	0	1	0	1	13	0	1	14	5	9	0	14	0	0	0	0	29
% App. Total	0	100	0		92.9	0	7.1		35.7	64.3	0		0	0	0		
PHF	.000	.250	.000	.250	.813	.000	.250	.700	.417	.750	.000	.583	.000	.000	.000	.000	.659

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
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File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:15 PM				05:15 PM				05:15 PM				05:15 PM				
+0 mins.	0	0	0	0	3	0	0	3	0	**3**	0	3	0	0	0	0	
+15 mins.	0	0	0	0	3	0	0	3	2	0	0	2	0	0	0	0	
+30 mins.	0	**1**	0	**1**	3	0	0	3	0	3	0	3	0	0	0	0	
+45 mins.	0	0	0	0	**4**	0	**1**	**5**	**3**	3	0	**6**	0	0	0	0	
Total Volume	0	1	0	1	13	0	1	14	5	9	0	14	0	0	0	0	
% App. Total	0	100	0		92.9	0	7.1		35.7	64.3	0		0	0	0		
PHF	.000	.250	.000	.250	.813	.000	.250	.700	.417	.750	.000	.583	.000	.000	.000	.000	

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

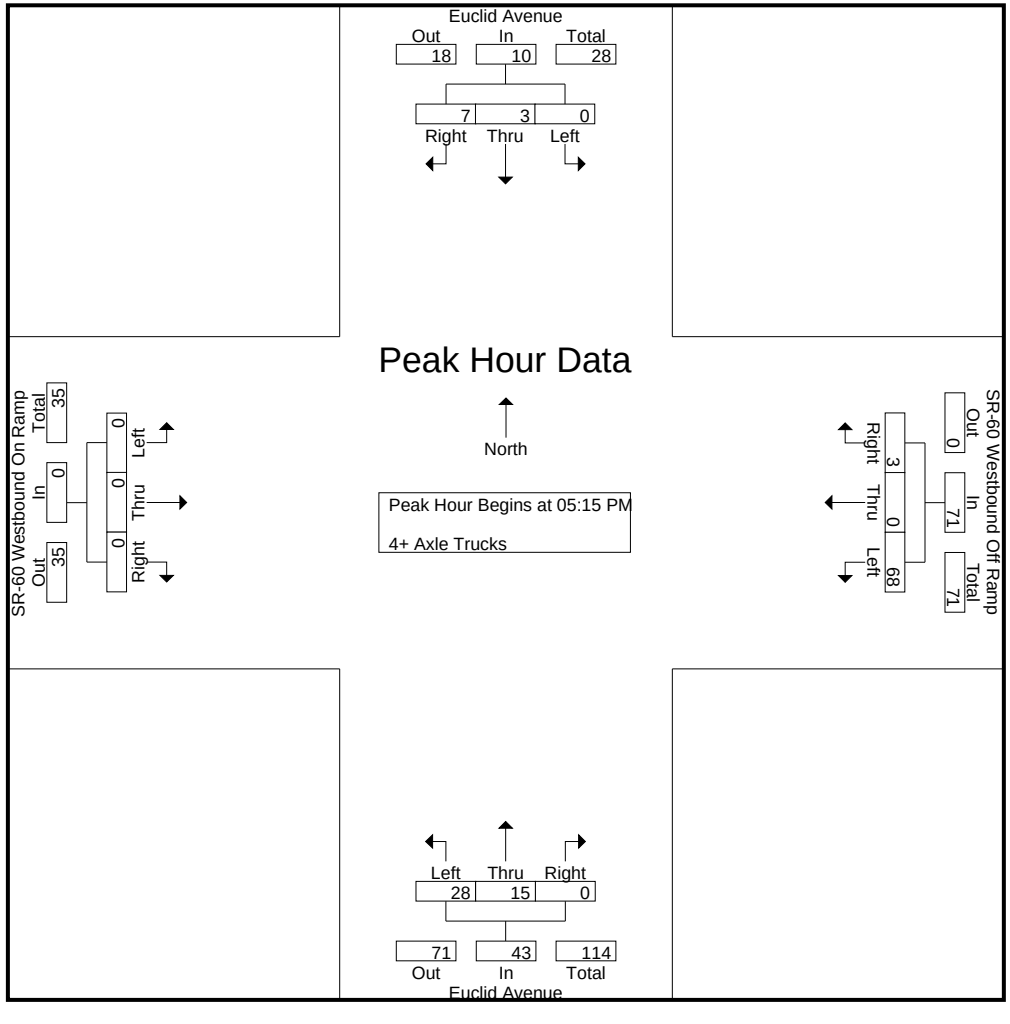
	Euclid Avenue Southbound					SR-60 Westbound Off Ramp Westbound					Euclid Avenue Northbound					SR-60 Westbound On Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	1	3	0	4	20	0	3	1	23	5	1	0	0	6	0	0	0	0	0	1	33	34
04:15 PM	0	3	3	2	6	13	0	1	0	14	5	5	0	0	10	0	0	0	0	0	2	30	32
04:30 PM	0	2	4	1	6	19	0	1	0	20	2	2	0	0	4	0	0	0	0	0	1	30	31
04:45 PM	0	1	3	2	4	18	0	0	0	18	6	5	0	0	11	0	0	0	0	0	2	33	35
Total	0	7	13	5	20	70	0	5	1	75	18	13	0	0	31	0	0	0	0	0	6	126	132
05:00 PM	0	2	4	1	6	8	0	2	1	10	6	2	0	0	8	0	0	0	0	0	2	24	26
05:15 PM	0	0	1	0	1	14	0	2	0	16	6	5	0	0	11	0	0	0	0	0	0	28	28
05:30 PM	0	0	3	1	3	24	0	0	0	24	13	7	0	0	20	0	0	0	0	0	1	47	48
05:45 PM	0	1	2	1	3	14	0	1	0	15	7	0	0	0	7	0	0	0	0	0	1	25	26
Total	0	3	10	3	13	60	0	5	1	65	32	14	0	0	46	0	0	0	0	0	4	124	128
06:00 PM	0	2	1	1	3	16	0	0	0	16	2	3	0	0	5	0	0	0	0	0	1	24	25
06:15 PM	0	4	1	0	5	14	0	0	0	14	10	4	0	0	14	0	0	0	0	0	0	33	33
06:30 PM	0	0	1	0	1	17	0	1	0	18	6	3	0	0	9	0	0	0	0	0	0	28	28
06:45 PM	0	2	2	1	4	15	0	0	0	15	5	4	0	0	9	0	0	0	0	0	1	28	29
Total	0	8	5	2	13	62	0	1	0	63	23	14	0	0	37	0	0	0	0	0	2	113	115
Grand Total	0	18	28	10	46	192	0	11	2	203	73	41	0	0	114	0	0	0	0	0	12	363	375
Apprch %	0	39.1	60.9			94.6	0	5.4			64	36	0			0	0	0					
Total %	0	5	7.7		12.7	52.9	0	3		55.9	20.1	11.3	0		31.4	0	0	0		0	3.2	96.8	

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:15 PM																	
05:15 PM	0	0	1	1	14	0	**2**	16	6	5	0	11	0	0	0	0	28
05:30 PM	0	0	**3**	**3**	**24**	0	0	**24**	**13**	**7**	0	**20**	0	0	0	0	**47**
05:45 PM	0	1	2	3	14	0	1	15	7	0	0	7	0	0	0	0	25
06:00 PM	0	**2**	1	3	16	0	0	16	2	3	0	5	0	0	0	0	24
Total Volume	0	3	7	10	68	0	3	71	28	15	0	43	0	0	0	0	124
% App. Total	0	30	70		95.8	0	4.2		65.1	34.9	0		0	0	0		
PHF	.000	.375	.583	.833	.708	.000	.375	.740	.538	.536	.000	.538	.000	.000	.000	.000	.660

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Westbound Ramps
Weather: Clear

File Name : 10_ONT_Eu_60W PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Westbound Off Ramp Westbound				Euclid Avenue Northbound				SR-60 Westbound On Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:15 PM to 06:00 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:15 PM				05:15 PM				05:15 PM				05:15 PM				
+0 mins.	0	0	1	1	14	0	**2**	16	6	5	0	11	0	0	0	0	
+15 mins.	0	0	**3**	**3**	**24**	0	0	**24**	**13**	**7**	0	**20**	0	0	0	0	
+30 mins.	0	1	2	3	14	0	1	15	7	0	0	7	0	0	0	0	
+45 mins.	0	**2**	1	3	16	0	0	16	2	3	0	5	0	0	0	0	
Total Volume	0	3	7	10	68	0	3	71	28	15	0	43	0	0	0	0	
% App. Total	0	30	70		95.8	0	4.2		65.1	34.9	0		0	0	0		
PHF	.000	.375	.583	.833	.708	.000	.375	.740	.538	.536	.000	.538	.000	.000	.000	.000	

Location: Ontario
N/S: Euclid Avenue
E/W: SR-60 WB Ramps

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg Euclid Avenue	East Leg SR-60 WB Ramps	South Leg Euclid Avenue	West Leg SR-60 WB Ramps	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	1	1
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	0	0
7:00 AM	0	1	0	0	1
7:15 AM	0	1	0	0	1
7:30 AM	0	0	0	0	0
7:45 AM	0	1	0	0	1
8:00 AM	0	0	0	2	2
8:15 AM	0	0	0	0	0
8:30 AM	0	1	0	2	3
8:45 AM	0	0	0	2	2
TOTAL VOLUMES:	0	4	0	7	11

	North Leg Euclid Avenue	East Leg SR-60 WB Ramps	South Leg Euclid Avenue	West Leg SR-60 WB Ramps	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	1	1
4:15 PM	0	2	0	1	3
4:30 PM	0	0	0	1	1
4:45 PM	0	0	0	2	2
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	2	2
5:30 PM	0	0	0	1	1
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
6:30 PM	0	1	0	0	1
6:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	3	0	8	11

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Location: Ontario
N/S: Euclid Avenue
E/W: SR-60 WB Ramps

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound Euclid Avenue			Westbound SR-60 WB Ramps			Northbound Euclid Avenue			Eastbound SR-60 WB Ramps			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	2
7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	5	0	0	0	0	0	2	0	0	0	0	7

	Southbound Euclid Avenue			Westbound SR-60 WB Ramps			Northbound Euclid Avenue			Eastbound SR-60 WB Ramps			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
4:45 PM	0	0	0	1	0	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 PM	0	2	0	0	0	0	0	1	0	0	0	0	3
6:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
TOTAL VOLUMES:	0	4	0	1	0	0	0	5	0	0	0	0	10

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	68	163	0	0	231	0	0	0	0	0	0	87	66	24	153	41	0	70	21	111	45	495	540
06:15 AM	65	194	0	0	259	0	0	0	0	0	0	80	103	40	183	45	0	59	24	104	64	546	610
06:30 AM	72	197	0	0	269	0	0	0	0	0	0	116	118	45	234	50	0	68	30	118	75	621	696
06:45 AM	74	144	0	0	218	0	0	0	0	0	0	109	121	39	230	57	0	90	32	147	71	595	666
Total	279	698	0	0	977	0	0	0	0	0	0	392	408	148	800	193	0	287	107	480	255	2257	2512
07:00 AM	72	152	0	0	224	0	0	0	0	0	0	143	117	44	260	61	0	58	17	119	61	603	664
07:15 AM	90	167	0	0	257	0	0	0	0	0	0	132	138	52	270	111	0	51	16	162	68	689	757
07:30 AM	81	159	0	0	240	0	0	0	0	0	0	179	127	51	306	73	0	50	18	123	69	669	738
07:45 AM	95	218	0	0	313	0	0	0	0	0	0	155	110	52	265	95	0	68	12	163	64	741	805
Total	338	696	0	0	1034	0	0	0	0	0	0	609	492	199	1101	340	0	227	63	567	262	2702	2964
08:00 AM	91	196	0	0	287	0	0	0	0	0	0	144	111	47	255	97	0	72	21	169	68	711	779
08:15 AM	98	218	0	0	316	0	0	0	0	0	0	136	119	49	255	66	0	78	11	144	60	715	775
08:30 AM	71	200	0	0	271	0	0	0	0	0	0	137	120	41	257	77	0	91	33	168	74	696	770
08:45 AM	54	188	0	0	242	0	0	0	0	0	0	140	111	47	251	70	0	89	22	159	69	652	721
Total	314	802	0	0	1116	0	0	0	0	0	0	557	461	184	1018	310	0	330	87	640	271	2774	3045
Grand Total	931	2196	0	0	3127	0	0	0	0	0	0	1558	1361	531	2919	843	0	844	257	1687	788	7733	8521
Apprch %	29.8	70.2	0			0	0	0			0	53.4	46.6			50	0	50					
Total %	12	28.4	0		40.4	0	0	0		0	0	20.1	17.6		37.7	10.9	0	10.9		21.8	9.2	90.8	
Passenger Vehicles	896	1831	0		2727	0	0	0		0	0	1276	961		2623	799	0	660		1663	0	0	7013
% Passenger Vehicles	96.2	83.4	0	0	87.2	0	0	0	0	0	0	81.9	70.6	72.7	76	94.8	0	78.2	79.4	85.5	0	0	82.3
Large 2 Axle Vehicles	18	73	0		91	0	0	0		0	0	57	93		177	20	0	55		94	0	0	362
% Large 2 Axle Vehicles	1.9	3.3	0	0	2.9	0	0	0	0	0	0	3.7	6.8	5.1	5.1	2.4	0	6.5	7.4	4.8	0	0	4.2
3 Axle Vehicles	9	67	0		76	0	0	0		0	0	46	47		117	1	0	30		38	0	0	231
% 3 Axle Vehicles	1	3.1	0	0	2.4	0	0	0	0	0	0	3	3.5	4.5	3.4	0.1	0	3.6	2.7	2	0	0	2.7
4+ Axle Trucks	8	225	0		233	0	0	0		0	0	179	260		533	23	0	99		149	0	0	915
% 4+ Axle Trucks	0.9	10.2	0	0	7.5	0	0	0	0	0	0	11.5	19.1	17.7	15.4	2.7	0	11.7	10.5	7.7	0	0	10.7

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

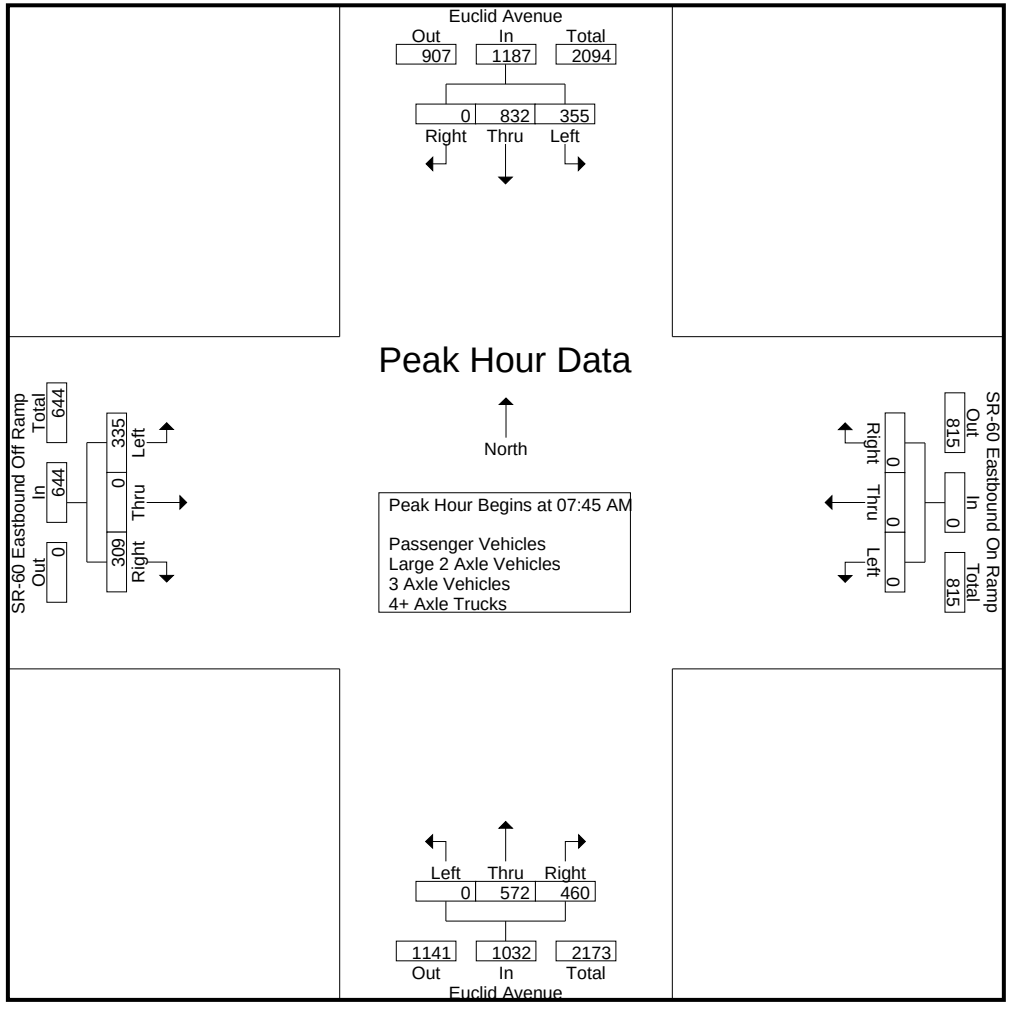
File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	95	**218**	0	313	0	0	0	0	0	**155**	110	**265**	95	0	68	163	**741**
08:00 AM	91	196	0	287	0	0	0	0	0	144	111	255	**97**	0	72	**169**	711
08:15 AM	**98**	218	0	**316**	0	0	0	0	0	136	119	255	66	0	78	144	715
08:30 AM	71	200	0	271	0	0	0	0	0	137	**120**	257	77	0	**91**	168	696
Total Volume	355	832	0	1187	0	0	0	0	0	572	460	1032	335	0	309	644	2863
% App. Total	29.9	70.1	0		0	0	0		0	55.4	44.6		52	0	48		
PHF	.906	.954	.000	.939	.000	.000	.000	.000	.000	.923	.958	.974	.863	.000	.849	.953	.966

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File Name : 11_ONT_Eu_60E AM
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City of Ontario
N/S: Euclid Avenue
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Weather: Clear

File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				06:00 AM				07:00 AM				07:45 AM				
+0 mins.	95	**218**	0	313	0	0	0	0	0	143	117	260	95	0	68	163	
+15 mins.	91	196	0	287	0	0	0	0	0	132	**138**	270	**97**	0	72	**169**	
+30 mins.	**98**	218	0	**316**	0	0	0	0	0	**179**	127	**306**	66	0	78	144	
+45 mins.	71	200	0	271	0	0	0	0	0	155	110	265	77	0	**91**	168	
Total Volume	355	832	0	1187	0	0	0	0	0	609	492	1101	335	0	309	644	
% App. Total	29.9	70.1	0		0	0	0		0	55.3	44.7		52	0	48		
PHF	.906	.954	.000	.939	.000	.000	.000	.000	.000	.851	.891	.900	.863	.000	.849	.953	

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City of Ontario
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File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- Passenger Vehicles

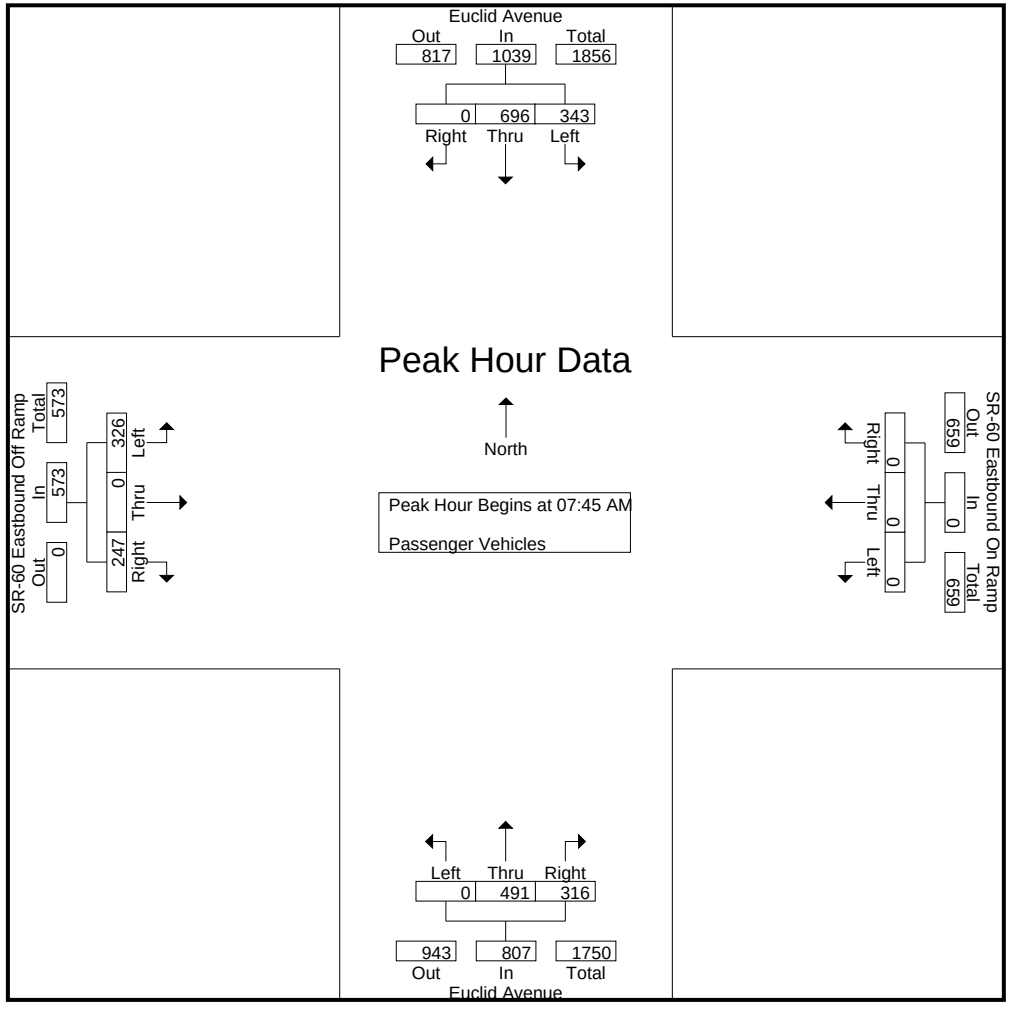
	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	64	137	0	0	201	0	0	0	0	0	0	69	52	22	121	38	0	52	18	90	40	412	452
06:15 AM	63	164	0	0	227	0	0	0	0	0	0	59	73	29	132	40	0	46	19	86	48	445	493
06:30 AM	70	174	0	0	244	0	0	0	0	0	0	90	84	37	174	46	0	53	24	99	61	517	578
06:45 AM	69	112	0	0	181	0	0	0	0	0	0	80	81	25	161	52	0	63	25	115	50	457	507
Total	266	587	0	0	853	0	0	0	0	0	0	298	290	113	588	176	0	214	86	390	199	1831	2030
07:00 AM	70	130	0	0	200	0	0	0	0	0	0	115	91	35	206	55	0	46	11	101	46	507	553
07:15 AM	90	139	0	0	229	0	0	0	0	0	0	101	100	36	201	107	0	38	12	145	48	575	623
07:30 AM	74	127	0	0	201	0	0	0	0	0	0	156	87	36	243	69	0	40	16	109	52	553	605
07:45 AM	93	181	0	0	274	0	0	0	0	0	0	135	82	39	217	94	0	58	10	152	49	643	692
Total	327	577	0	0	904	0	0	0	0	0	0	507	360	146	867	325	0	182	49	507	195	2278	2473
08:00 AM	88	162	0	0	250	0	0	0	0	0	0	124	67	28	191	94	0	55	14	149	42	590	632
08:15 AM	95	182	0	0	277	0	0	0	0	0	0	111	80	33	191	64	0	63	10	127	43	595	638
08:30 AM	67	171	0	0	238	0	0	0	0	0	0	121	87	31	208	74	0	71	27	145	58	591	649
08:45 AM	53	152	0	0	205	0	0	0	0	0	0	115	77	35	192	66	0	75	18	141	53	538	591
Total	303	667	0	0	970	0	0	0	0	0	0	471	311	127	782	298	0	264	69	562	196	2314	2510
Grand Total	896	1831	0	0	2727	0	0	0	0	0	0	1276	961	386	2237	799	0	660	204	1459	590	6423	7013
Apprch %	32.9	67.1	0			0	0	0			0	57	43			54.8	0	45.2					
Total %	13.9	28.5	0		42.5	0	0	0		0	0	19.9	15		34.8	12.4	0	10.3		22.7	8.4	91.6	

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	93	181	0	274	0	0	0	0	0	**135**	82	**217**	**94**	0	58	**152**	**643**
08:00 AM	88	162	0	250	0	0	0	0	0	124	67	191	94	0	55	149	590
08:15 AM	**95**	**182**	0	**277**	0	0	0	0	0	111	80	191	64	0	63	127	595
08:30 AM	67	171	0	238	0	0	0	0	0	121	**87**	208	74	0	**71**	145	591
Total Volume	343	696	0	1039	0	0	0	0	0	491	316	807	326	0	247	573	2419
% App. Total	33	67	0		0	0	0		0	60.8	39.2		56.9	0	43.1		
PHF	.903	.956	.000	.938	.000	.000	.000	.000	.000	.909	.908	.930	.867	.000	.870	.942	.941

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City of Ontario
N/S: Euclid Avenue
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File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022
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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:45 AM				07:45 AM				07:45 AM				
+0 mins.	93	181	0	274	0	0	0	0	0	**135**	82	**217**	**94**	0	58	**152**	
+15 mins.	88	162	0	250	0	0	0	0	0	124	67	191	94	0	55	149	
+30 mins.	**95**	**182**	0	**277**	0	0	0	0	0	111	80	191	64	0	63	127	
+45 mins.	67	171	0	238	0	0	0	0	0	121	**87**	208	74	0	**71**	145	
Total Volume	343	696	0	1039	0	0	0	0	0	491	316	807	326	0	247	573	
% App. Total	33	67	0		0	0	0		0	60.8	39.2		56.9	0	43.1		
PHF	.903	.956	.000	.938	.000	.000	.000	.000	.000	.909	.908	.930	.867	.000	.870	.942	

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City of Ontario
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File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- Large 2 Axle Vehicles

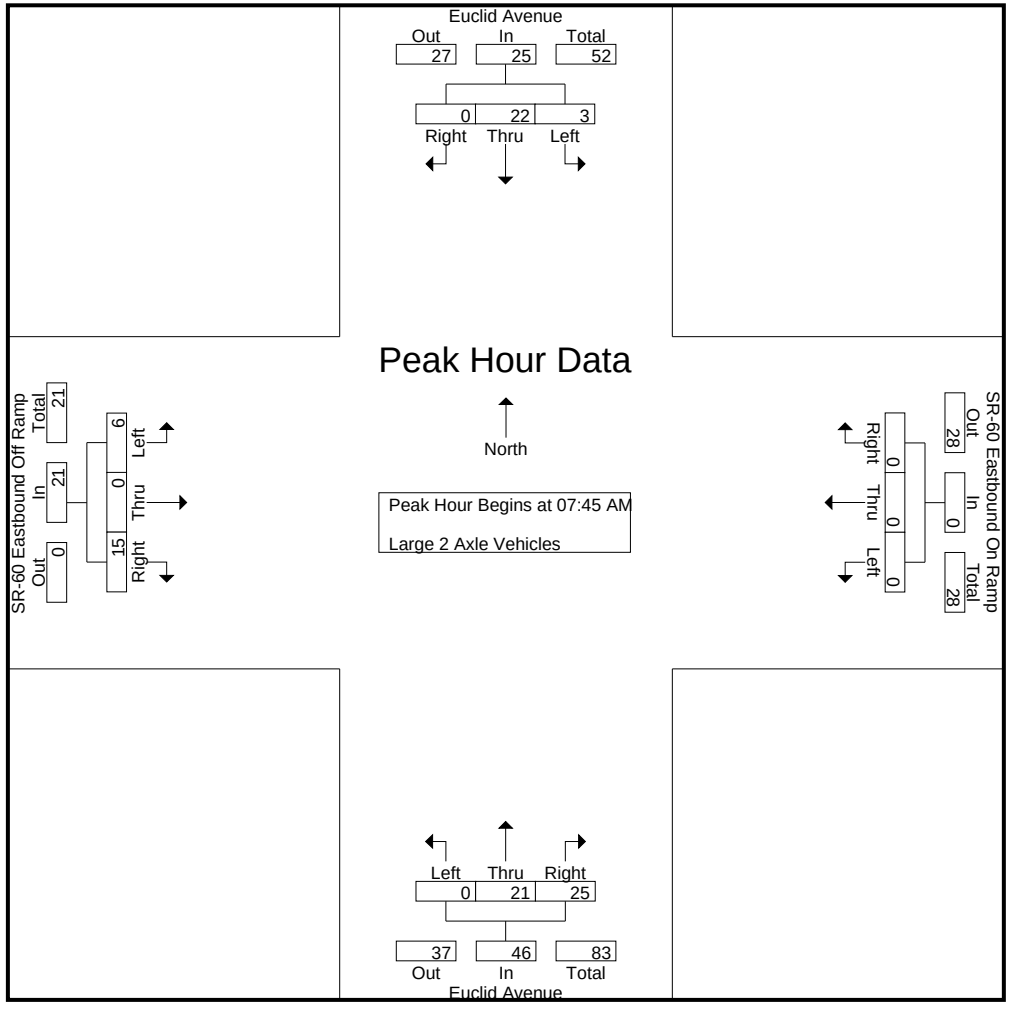
	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	2	3	0	0	5	0	0	0	0	0	0	1	2	0	3	0	0	4	0	4	0	12	12
06:15 AM	2	8	0	0	10	0	0	0	0	0	0	3	11	1	14	1	0	5	3	6	4	30	34
06:30 AM	1	10	0	0	11	0	0	0	0	0	0	6	11	1	17	3	0	4	3	7	4	35	39
06:45 AM	4	7	0	0	11	0	0	0	0	0	0	4	11	2	15	2	0	7	0	9	2	35	37
Total	9	28	0	0	37	0	0	0	0	0	0	14	35	4	49	6	0	20	6	26	10	112	122
07:00 AM	2	3	0	0	5	0	0	0	0	0	0	6	6	2	12	3	0	3	2	6	4	23	27
07:15 AM	0	5	0	0	5	0	0	0	0	0	0	8	11	4	19	0	0	9	3	9	7	33	40
07:30 AM	3	5	0	0	8	0	0	0	0	0	0	3	8	3	11	3	0	3	1	6	4	25	29
07:45 AM	0	3	0	0	3	0	0	0	0	0	0	2	3	1	5	1	0	1	1	2	2	10	12
Total	5	16	0	0	21	0	0	0	0	0	0	19	28	10	47	7	0	16	7	23	17	91	108
08:00 AM	1	5	0	0	6	0	0	0	0	0	0	7	8	4	15	2	0	4	2	6	6	27	33
08:15 AM	1	4	0	0	5	0	0	0	0	0	0	7	8	5	15	1	0	4	1	5	6	25	31
08:30 AM	1	10	0	0	11	0	0	0	0	0	0	5	6	1	11	2	0	6	3	8	4	30	34
08:45 AM	1	10	0	0	11	0	0	0	0	0	0	5	8	3	13	2	0	5	0	7	3	31	34
Total	4	29	0	0	33	0	0	0	0	0	0	24	30	13	54	7	0	19	6	26	19	113	132
Grand Total	18	73	0	0	91	0	0	0	0	0	0	57	93	27	150	20	0	55	19	75	46	316	362
Apprch %	19.8	80.2	0			0	0	0			0	38	62			26.7	0	73.3					
Total %	5.7	23.1	0		28.8	0	0	0		0	0	18	29.4		47.5	6.3	0	17.4		23.7	12.7	87.3	

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	3	0	3	0	0	0	0	0	2	3	5	1	0	1	2	10
08:00 AM	**1**	5	0	6	0	0	0	0	0	**7**	**8**	**15**	**2**	0	4	6	27
08:15 AM	1	4	0	5	0	0	0	0	0	7	8	15	1	0	4	5	25
08:30 AM	1	**10**	0	**11**	0	0	0	0	0	5	6	11	2	0	**6**	**8**	**30**
Total Volume	3	22	0	25	0	0	0	0	0	21	25	46	6	0	15	21	92
% App. Total	12	88	0		0	0	0		0	45.7	54.3		28.6	0	71.4		
PHF	.750	.550	.000	.568	.000	.000	.000	.000	.000	.750	.781	.767	.750	.000	.625	.656	.767

Counts Unlimited, Inc.
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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:45 AM				07:45 AM				07:45 AM				
+0 mins.	0	3	0	3	0	0	0	0	0	2	3	5	1	0	1	2	
+15 mins.	**1**	5	0	6	0	0	0	0	0	**7**	**8**	**15**	**2**	0	4	6	
+30 mins.	1	4	0	5	0	0	0	0	0	7	8	15	1	0	4	5	
+45 mins.	1	**10**	0	**11**	0	0	0	0	0	5	6	11	2	0	**6**	**8**	
Total Volume	3	22	0	25	0	0	0	0	0	21	25	46	6	0	15	21	
% App. Total	12	88	0		0	0	0		0	45.7	54.3		28.6	0	71.4		
PHF	.750	.550	.000	.568	.000	.000	.000	.000	.000	.750	.781	.767	.750	.000	.625	.656	

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City of Ontario
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File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

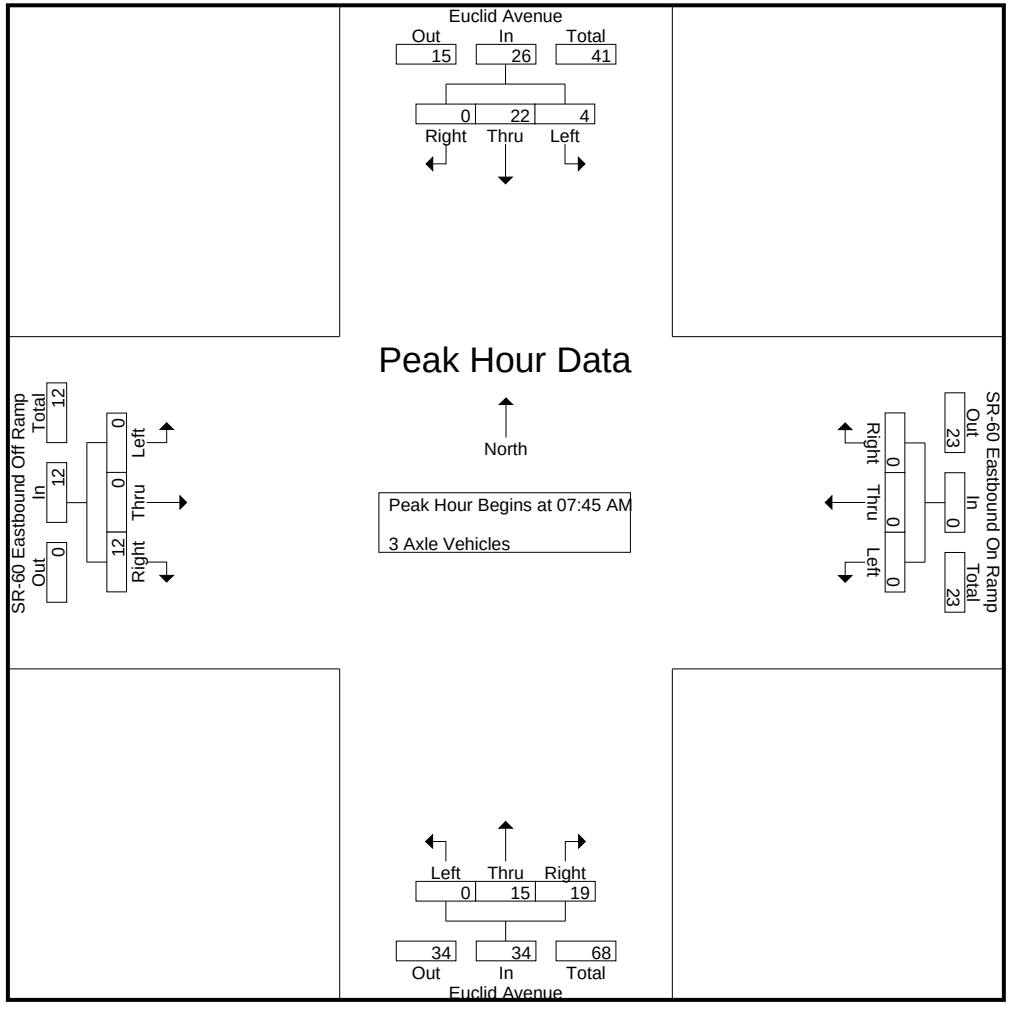
	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	1	7	0	0	8	0	0	0	0	0	0	5	2	1	7	0	0	1	0	1	1	16	17
06:15 AM	0	9	0	0	9	0	0	0	0	0	0	2	3	2	5	0	0	2	0	2	2	16	18
06:30 AM	1	3	0	0	4	0	0	0	0	0	0	3	3	1	6	0	0	2	0	2	1	12	13
06:45 AM	1	7	0	0	8	0	0	0	0	0	0	4	9	5	13	1	0	5	1	6	6	27	33
Total	3	26	0	0	29	0	0	0	0	0	0	14	17	9	31	1	0	10	1	11	10	71	81
07:00 AM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	2	0	2	0	11	11
07:15 AM	0	3	0	0	3	0	0	0	0	0	0	3	5	2	8	0	0	1	0	1	2	12	14
07:30 AM	2	6	0	0	8	0	0	0	0	0	0	3	3	1	6	0	0	1	0	1	1	15	16
07:45 AM	1	6	0	0	7	0	0	0	0	0	0	5	1	1	6	0	0	2	0	2	1	15	16
Total	3	19	0	0	22	0	0	0	0	0	0	16	9	4	25	0	0	6	0	6	4	53	57
08:00 AM	1	5	0	0	6	0	0	0	0	0	0	2	3	2	5	0	0	3	2	3	4	14	18
08:15 AM	1	7	0	0	8	0	0	0	0	0	0	3	5	3	8	0	0	2	0	2	3	18	21
08:30 AM	1	4	0	0	5	0	0	0	0	0	0	5	10	4	15	0	0	5	2	5	6	25	31
08:45 AM	0	6	0	0	6	0	0	0	0	0	0	6	3	2	9	0	0	4	2	4	4	19	23
Total	3	22	0	0	25	0	0	0	0	0	0	16	21	11	37	0	0	14	6	14	17	76	93
Grand Total	9	67	0	0	76	0	0	0	0	0	0	46	47	24	93	1	0	30	7	31	31	200	231
Apprch %	11.8	88.2	0			0	0	0			0	49.5	50.5			3.2	0	96.8					
Total %	4.5	33.5	0		38	0	0	0		0	0	23	23.5		46.5	0.5	0	15		15.5	13.4	86.6	

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	**1**	6	0	7	0	0	0	0	0	**5**	1	6	0	0	2	2	15
08:00 AM	1	5	0	6	0	0	0	0	0	2	3	5	0	0	3	3	14
08:15 AM	1	**7**	0	**8**	0	0	0	0	0	3	5	8	0	0	2	2	18
08:30 AM	1	4	0	5	0	0	0	0	0	5	**10**	**15**	0	0	**5**	**5**	**25**
Total Volume	4	22	0	26	0	0	0	0	0	15	19	34	0	0	12	12	72
% App. Total	15.4	84.6	0		0	0	0		0	44.1	55.9		0	0	100		
PHF	1.00	.786	.000	.813	.000	.000	.000	.000	.000	.750	.475	.567	.000	.000	.600	.600	.720

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
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E/W: SR-60 Eastbound Ramps
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File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:45 AM				07:45 AM				07:45 AM				
+0 mins.	**1**	6	0	7	0	0	0	0	0	**5**	1	6	0	0	2	2	
+15 mins.	1	5	0	6	0	0	0	0	0	2	3	5	0	0	3	3	
+30 mins.	1	**7**	0	**8**	0	0	0	0	0	3	5	8	0	0	2	2	
+45 mins.	1	4	0	5	0	0	0	0	0	5	**10**	**15**	0	0	**5**	**5**	
Total Volume	4	22	0	26	0	0	0	0	0	15	19	34	0	0	12	12	
% App. Total	15.4	84.6	0		0	0	0		0	44.1	55.9		0	0	100		
PHF	1.000	.786	.000	.813	.000	.000	.000	.000	.000	.750	.475	.567	.000	.000	.600	.600	

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File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

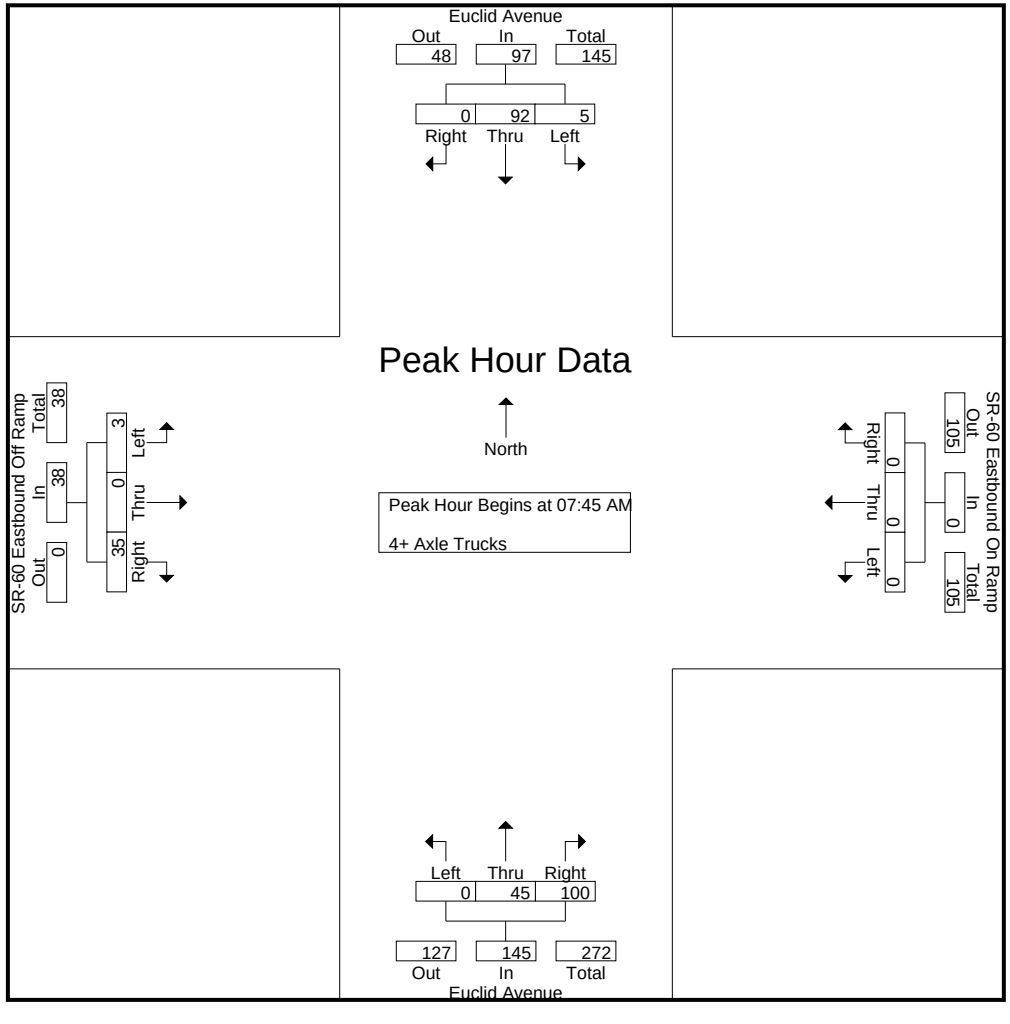
	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	1	16	0	0	17	0	0	0	0	0	0	12	10	1	22	3	0	13	3	16	4	55	59
06:15 AM	0	13	0	0	13	0	0	0	0	0	0	16	16	8	32	4	0	6	2	10	10	55	65
06:30 AM	0	10	0	0	10	0	0	0	0	0	0	17	20	6	37	1	0	9	3	10	9	57	66
06:45 AM	0	18	0	0	18	0	0	0	0	0	0	21	20	7	41	2	0	15	6	17	13	76	89
Total	1	57	0	0	58	0	0	0	0	0	0	66	66	22	132	10	0	43	14	53	36	243	279
07:00 AM	0	15	0	0	15	0	0	0	0	0	0	17	20	7	37	3	0	7	4	10	11	62	73
07:15 AM	0	20	0	0	20	0	0	0	0	0	0	20	22	10	42	4	0	3	1	7	11	69	80
07:30 AM	2	21	0	0	23	0	0	0	0	0	0	17	29	11	46	1	0	6	1	7	12	76	88
07:45 AM	1	28	0	0	29	0	0	0	0	0	0	13	24	11	37	0	0	7	1	7	12	73	85
Total	3	84	0	0	87	0	0	0	0	0	0	67	95	39	162	8	0	23	7	31	46	280	326
08:00 AM	1	24	0	0	25	0	0	0	0	0	0	11	33	13	44	1	0	10	3	11	16	80	96
08:15 AM	1	25	0	0	26	0	0	0	0	0	0	15	26	8	41	1	0	9	0	10	8	77	85
08:30 AM	2	15	0	0	17	0	0	0	0	0	0	6	17	5	23	1	0	9	1	10	6	50	56
08:45 AM	0	20	0	0	20	0	0	0	0	0	0	14	23	7	37	2	0	5	2	7	9	64	73
Total	4	84	0	0	88	0	0	0	0	0	0	46	99	33	145	5	0	33	6	38	39	271	310
Grand Total	8	225	0	0	233	0	0	0	0	0	0	179	260	94	439	23	0	99	27	122	121	794	915
Apprch %	3.4	96.6	0			0	0	0			0	40.8	59.2			18.9	0	81.1					
Total %	1	28.3	0		29.3	0	0	0		0	0	22.5	32.7		55.3	2.9	0	12.5		15.4	13.2	86.8	

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	1	**28**	0	**29**	0	0	0	0	0	13	24	37	0	0	7	7	73
08:00 AM	1	24	0	25	0	0	0	0	0	11	**33**	**44**	**1**	0	**10**	**11**	**80**
08:15 AM	1	25	0	26	0	0	0	0	0	**15**	26	41	1	0	9	10	77
08:30 AM	**2**	15	0	17	0	0	0	0	0	6	17	23	1	0	9	10	50
Total Volume	5	92	0	97	0	0	0	0	0	45	100	145	3	0	35	38	280
% App. Total	5.2	94.8	0		0	0	0		0	31	69		7.9	0	92.1		
PHF	.625	.821	.000	.836	.000	.000	.000	.000	.000	.750	.758	.824	.750	.000	.875	.864	.875

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City of Ontario
N/S: Euclid Avenue
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File Name : 11_ONT_Eu_60E AM
Site Code : 05122422
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	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:45 AM				07:45 AM				07:45 AM				
+0 mins.	1	**28**	0	**29**	0	0	0	0	0	13	24	37	0	0	7	7	
+15 mins.	1	24	0	25	0	0	0	0	0	11	**33**	**44**	**1**	0	**10**	**11**	
+30 mins.	1	25	0	26	0	0	0	0	0	**15**	26	41	1	0	9	10	
+45 mins.	**2**	15	0	17	0	0	0	0	0	6	17	23	1	0	9	10	
Total Volume	5	92	0	97	0	0	0	0	0	45	100	145	3	0	35	38	
% App. Total	5.2	94.8	0		0	0	0		0	31	69		7.9	0	92.1		
PHF	.625	.821	.000	.836	.000	.000	.000	.000	.000	.750	.758	.824	.750	.000	.875	.864	

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File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	83	236	0	0	319	0	0	0	0	0	0	167	80	28	247	51	0	43	23	94	51	660	711
04:15 PM	64	205	0	0	269	0	0	0	0	0	0	179	85	39	264	76	0	55	14	131	53	664	717
04:30 PM	76	254	0	0	330	0	0	0	0	0	0	220	79	35	299	60	1	45	18	106	53	735	788
04:45 PM	94	246	0	0	340	0	0	0	0	0	0	183	84	24	267	58	1	46	12	105	36	712	748
Total	317	941	0	0	1258	0	0	0	0	0	0	749	328	126	1077	245	2	189	67	436	193	2771	2964
05:00 PM	78	204	0	0	282	0	0	0	0	0	0	176	74	21	250	60	0	56	24	116	45	648	693
05:15 PM	77	232	0	0	309	0	0	0	0	0	0	198	100	42	298	76	1	50	17	127	59	734	793
05:30 PM	93	227	0	0	320	0	0	0	0	0	0	184	87	35	271	61	0	40	6	101	41	692	733
05:45 PM	88	247	0	0	335	0	0	0	0	0	0	155	94	35	249	69	0	50	17	119	52	703	755
Total	336	910	0	0	1246	0	0	0	0	0	0	713	355	133	1068	266	1	196	64	463	197	2777	2974
06:00 PM	86	218	0	0	304	0	0	0	0	0	0	175	86	39	261	87	0	47	15	134	54	699	753
06:15 PM	60	181	0	0	241	0	0	0	0	0	0	171	80	26	251	62	0	68	24	130	50	622	672
06:30 PM	73	191	0	0	264	0	0	0	0	0	0	153	78	24	231	91	1	85	18	177	42	672	714
06:45 PM	65	158	0	0	223	0	0	0	0	0	0	141	99	33	240	61	0	83	30	144	63	607	670
Total	284	748	0	0	1032	0	0	0	0	0	0	640	343	122	983	301	1	283	87	585	209	2600	2809
Grand Total	937	2599	0	0	3536	0	0	0	0	0	0	2102	1026	381	3128	812	4	668	218	1484	599	8148	8747
Apprch %	26.5	73.5	0			0	0	0			0	67.2	32.8			54.7	0.3	45					
Total %	11.5	31.9	0		43.4	0	0	0		0	0	25.8	12.6		38.4	10	0	8.2		18.2	6.8	93.2	
Passenger Vehicles	916	2286	0		3202	0	0	0		0	0	1954	797		3061	764	2	549		1498	0	0	7761
% Passenger Vehicles	97.8	88	0	0	90.6	0	0	0	0	0	0	93	77.7	81.4	87.2	94.1	50	82.2	83.9	88	0	0	88.7
Large 2 Axle Vehicles	13	66	0		79	0	0	0		0	0	38	30		82	22	0	12		39	0	0	200
% Large 2 Axle Vehicles	1.4	2.5	0	0	2.2	0	0	0	0	0	0	1.8	2.9	3.7	2.3	2.7	0	1.8	2.3	2.3	0	0	2.3
3 Axle Vehicles	2	41	0		43	0	0	0		0	0	26	44		82	11	0	21		37	0	0	162
% 3 Axle Vehicles	0.2	1.6	0	0	1.2	0	0	0	0	0	0	1.2	4.3	3.1	2.3	1.4	0	3.1	2.3	2.2	0	0	1.9
4+ Axle Trucks	6	206	0		212	0	0	0		0	0	84	155		284	15	2	86		128	0	0	624
% 4+ Axle Trucks	0.6	7.9	0	0	6	0	0	0	0	0	0	4	15.1	11.8	8.1	1.8	50	12.9	11.5	7.5	0	0	7.1

Counts Unlimited, Inc.
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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

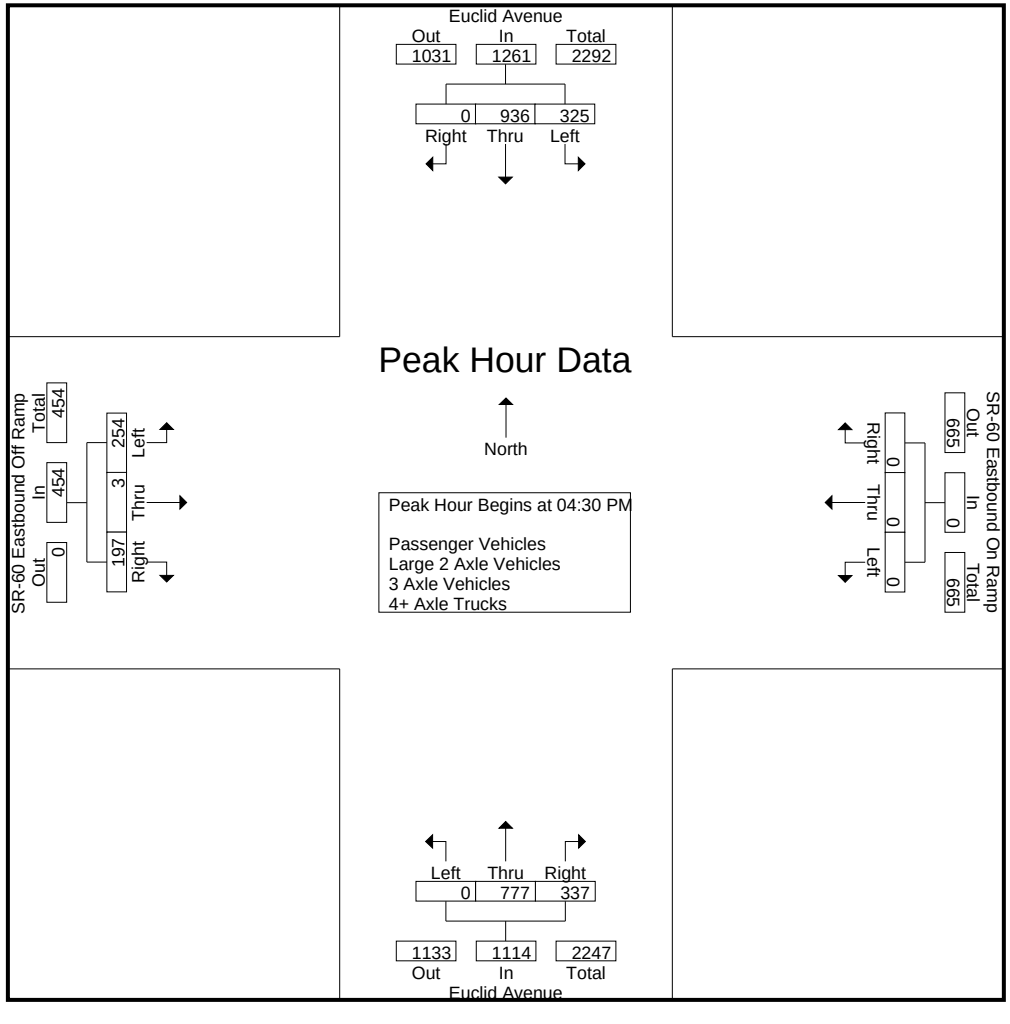
File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	76	**254**	0	330	0	0	0	0	0	**220**	79	**299**	60	**1**	45	106	**735**
04:45 PM	**94**	246	0	**340**	0	0	0	0	0	183	84	267	58	1	46	105	712
05:00 PM	78	204	0	282	0	0	0	0	0	176	74	250	60	0	**56**	116	648
05:15 PM	77	232	0	309	0	0	0	0	0	198	**100**	298	**76**	1	50	**127**	734
Total Volume	325	936	0	1261	0	0	0	0	0	777	337	1114	254	3	197	454	2829
% App. Total	25.8	74.2	0		0	0	0		0	69.7	30.3		55.9	0.7	43.4		
PHF	.864	.921	.000	.927	.000	.000	.000	.000	.000	.883	.843	.931	.836	.750	.879	.894	.962

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 3



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:15 PM				04:00 PM				04:30 PM				06:00 PM				
+0 mins.	77	232	0	309	0	0	0	0	0	**220**	79	**299**	87	0	47	134	
+15 mins.	**93**	227	0	320	0	0	0	0	0	183	84	267	62	0	68	130	
+30 mins.	88	**247**	0	**335**	0	0	0	0	0	176	74	250	**91**	**1**	**85**	**177**	
+45 mins.	86	218	0	304	0	0	0	0	0	198	**100**	298	61	0	83	144	
Total Volume	344	924	0	1268	0	0	0	0	0	777	337	1114	301	1	283	585	
% App. Total	27.1	72.9	0		0	0	0		0	69.7	30.3		51.5	0.2	48.4		
PHF	.925	.935	.000	.946	.000	.000	.000	.000	.000	.883	.843	.931	.827	.250	.832	.826	

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles

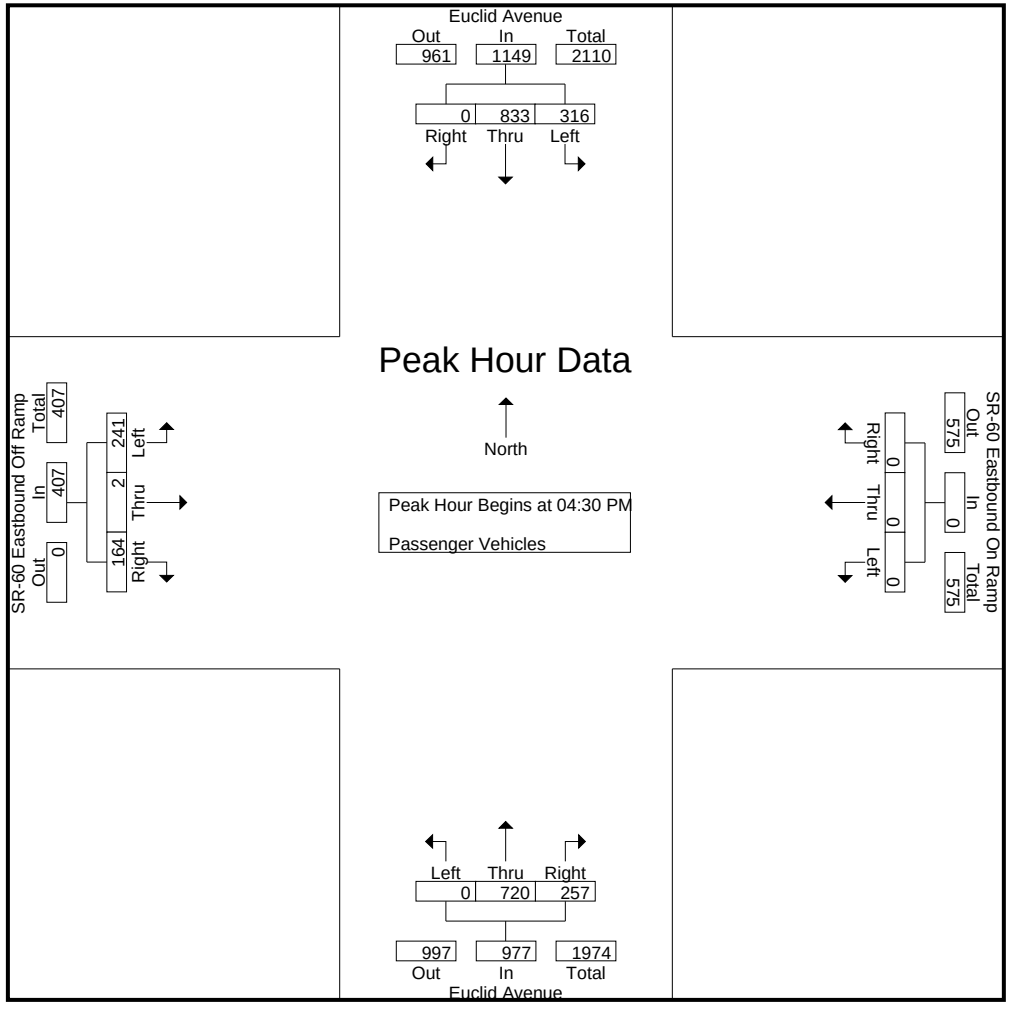
	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	82	204	0	0	286	0	0	0	0	0	0	153	61	21	214	45	0	31	18	76	39	576	615
04:15 PM	61	178	0	0	239	0	0	0	0	0	0	170	60	28	230	67	0	44	11	111	39	580	619
04:30 PM	72	223	0	0	295	0	0	0	0	0	0	207	53	29	260	60	1	34	15	95	44	650	694
04:45 PM	90	213	0	0	303	0	0	0	0	0	0	168	62	20	230	51	0	36	9	87	29	620	649
Total	305	818	0	0	1123	0	0	0	0	0	0	698	236	98	934	223	1	145	53	369	151	2426	2577
05:00 PM	77	186	0	0	263	0	0	0	0	0	0	165	60	17	225	56	0	48	21	104	38	592	630
05:15 PM	77	211	0	0	288	0	0	0	0	0	0	180	82	36	262	74	1	46	16	121	52	671	723
05:30 PM	92	197	0	0	289	0	0	0	0	0	0	166	64	27	230	57	0	34	5	91	32	610	642
05:45 PM	84	222	0	0	306	0	0	0	0	0	0	149	78	30	227	65	0	43	15	108	45	641	686
Total	330	816	0	0	1146	0	0	0	0	0	0	660	284	110	944	252	1	171	57	424	167	2514	2681
06:00 PM	84	195	0	0	279	0	0	0	0	0	0	163	70	33	233	82	0	39	13	121	46	633	679
06:15 PM	60	156	0	0	216	0	0	0	0	0	0	153	66	22	219	62	0	54	19	116	41	551	592
06:30 PM	73	163	0	0	236	0	0	0	0	0	0	148	67	21	215	87	0	70	14	157	35	608	643
06:45 PM	64	138	0	0	202	0	0	0	0	0	0	132	74	26	206	58	0	70	27	128	53	536	589
Total	281	652	0	0	933	0	0	0	0	0	0	596	277	102	873	289	0	233	73	522	175	2328	2503
Grand Total	916	2286	0	0	3202	0	0	0	0	0	0	1954	797	310	2751	764	2	549	183	1315	493	7268	7761
Apprch %	28.6	71.4	0			0	0	0			0	71	29			58.1	0.2	41.7					
Total %	12.6	31.5	0		44.1	0	0	0		0	0	26.9	11		37.9	10.5	0	7.6		18.1	6.4	93.6	

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	72	**223**	0	295	0	0	0	0	0	**207**	53	260	60	**1**	34	95	650
04:45 PM	**90**	213	0	**303**	0	0	0	0	0	168	62	230	51	0	36	87	620
05:00 PM	77	186	0	263	0	0	0	0	0	165	60	225	56	0	**48**	104	592
05:15 PM	77	211	0	288	0	0	0	0	0	180	**82**	**262**	**74**	1	46	**121**	**671**
Total Volume	316	833	0	1149	0	0	0	0	0	720	257	977	241	2	164	407	2533
% App. Total	27.5	72.5	0		0	0	0		0	73.7	26.3		59.2	0.5	40.3		
PHF	.878	.934	.000	.948	.000	.000	.000	.000	.000	.870	.784	.932	.814	.500	.854	.841	.944

Counts Unlimited, Inc.
PO Box 1178
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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



Counts Unlimited, Inc.
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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	72	**223**	0	295	0	0	0	0	0	**207**	53	260	60	**1**	34	95	
+15 mins.	**90**	213	0	**303**	0	0	0	0	0	168	62	230	51	0	36	87	
+30 mins.	77	186	0	263	0	0	0	0	0	165	60	225	56	0	**48**	104	
+45 mins.	77	211	0	288	0	0	0	0	0	180	**82**	**262**	**74**	1	46	**121**	
Total Volume	316	833	0	1149	0	0	0	0	0	720	257	977	241	2	164	407	
% App. Total	27.5	72.5	0		0	0	0		0	73.7	26.3		59.2	0.5	40.3		
PHF	.878	.934	.000	.948	.000	.000	.000	.000	.000	.870	.784	.932	.814	.500	.854	.841	

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City of Ontario
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Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

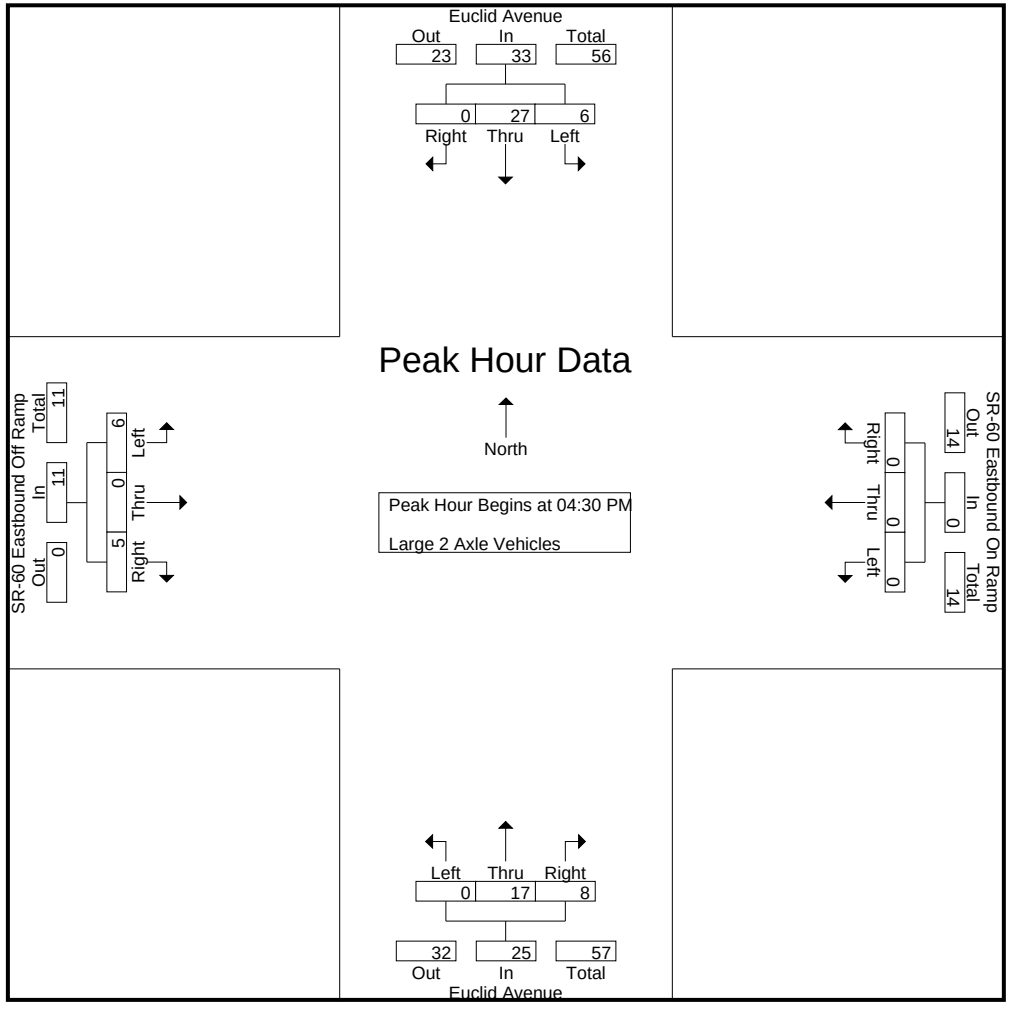
	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	1	4	0	0	5	0	0	0	0	0	0	6	4	3	10	4	0	2	1	6	4	21	25
04:15 PM	2	7	0	0	9	0	0	0	0	0	0	4	6	4	10	4	0	1	0	5	4	24	28
04:30 PM	3	8	0	0	11	0	0	0	0	0	0	6	2	0	8	0	0	1	0	1	0	20	20
04:45 PM	3	9	0	0	12	0	0	0	0	0	0	4	5	0	9	3	0	2	0	5	0	26	26
Total	9	28	0	0	37	0	0	0	0	0	0	20	17	7	37	11	0	6	1	17	8	91	99
05:00 PM	0	6	0	0	6	0	0	0	0	0	0	2	0	0	2	3	0	2	2	5	2	13	15
05:15 PM	0	4	0	0	4	0	0	0	0	0	0	5	1	1	6	0	0	0	0	0	1	10	11
05:30 PM	1	4	0	0	5	0	0	0	0	0	0	3	1	1	4	2	0	0	0	2	1	11	12
05:45 PM	2	7	0	0	9	0	0	0	0	0	0	0	4	2	4	2	0	1	1	3	3	16	19
Total	3	21	0	0	24	0	0	0	0	0	0	10	6	4	16	7	0	3	3	10	7	50	57
06:00 PM	1	4	0	0	5	0	0	0	0	0	0	5	1	1	6	2	0	1	0	3	1	14	15
06:15 PM	0	8	0	0	8	0	0	0	0	0	0	2	3	1	5	0	0	1	1	1	2	14	16
06:30 PM	0	3	0	0	3	0	0	0	0	0	0	0	1	0	1	1	0	1	0	2	0	6	6
06:45 PM	0	2	0	0	2	0	0	0	0	0	0	1	2	1	3	1	0	0	0	1	1	6	7
Total	1	17	0	0	18	0	0	0	0	0	0	8	7	3	15	4	0	3	1	7	4	40	44
Grand Total	13	66	0	0	79	0	0	0	0	0	0	38	30	14	68	22	0	12	5	34	19	181	200
Apprch %	16.5	83.5	0			0	0	0			0	55.9	44.1			64.7	0	35.3					
Total %	7.2	36.5	0		43.6	0	0	0		0	0	21	16.6		37.6	12.2	0	6.6		18.8	9.5	90.5	

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**3**	8	0	11	0	0	0	0	0	**6**	2	8	0	0	1	1	20
04:45 PM	3	**9**	0	**12**	0	0	0	0	0	4	**5**	**9**	**3**	0	**2**	**5**	**26**
05:00 PM	0	6	0	6	0	0	0	0	0	2	0	2	3	0	2	5	13
05:15 PM	0	4	0	4	0	0	0	0	0	5	1	6	0	0	0	0	10
Total Volume	6	27	0	33	0	0	0	0	0	17	8	25	6	0	5	11	69
% App. Total	18.2	81.8	0		0	0	0		0	68	32		54.5	0	45.5		
PHF	.500	.750	.000	.688	.000	.000	.000	.000	.000	.708	.400	.694	.500	.000	.625	.550	.663

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
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File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	**3**	8	0	11	0	0	0	0	0	**6**	2	8	0	0	1	1	
+15 mins.	3	**9**	0	**12**	0	0	0	0	0	4	**5**	**9**	**3**	0	**2**	**5**	
+30 mins.	0	6	0	6	0	0	0	0	0	2	0	2	3	0	2	5	
+45 mins.	0	4	0	4	0	0	0	0	0	5	1	6	0	0	0	0	
Total Volume	6	27	0	33	0	0	0	0	0	17	8	25	6	0	5	11	
% App. Total	18.2	81.8	0		0	0	0		0	68	32		54.5	0	45.5		
PHF	.500	.750	.000	.688	.000	.000	.000	.000	.000	.708	.400	.694	.500	.000	.625	.550	

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City of Ontario
N/S: Euclid Avenue
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File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

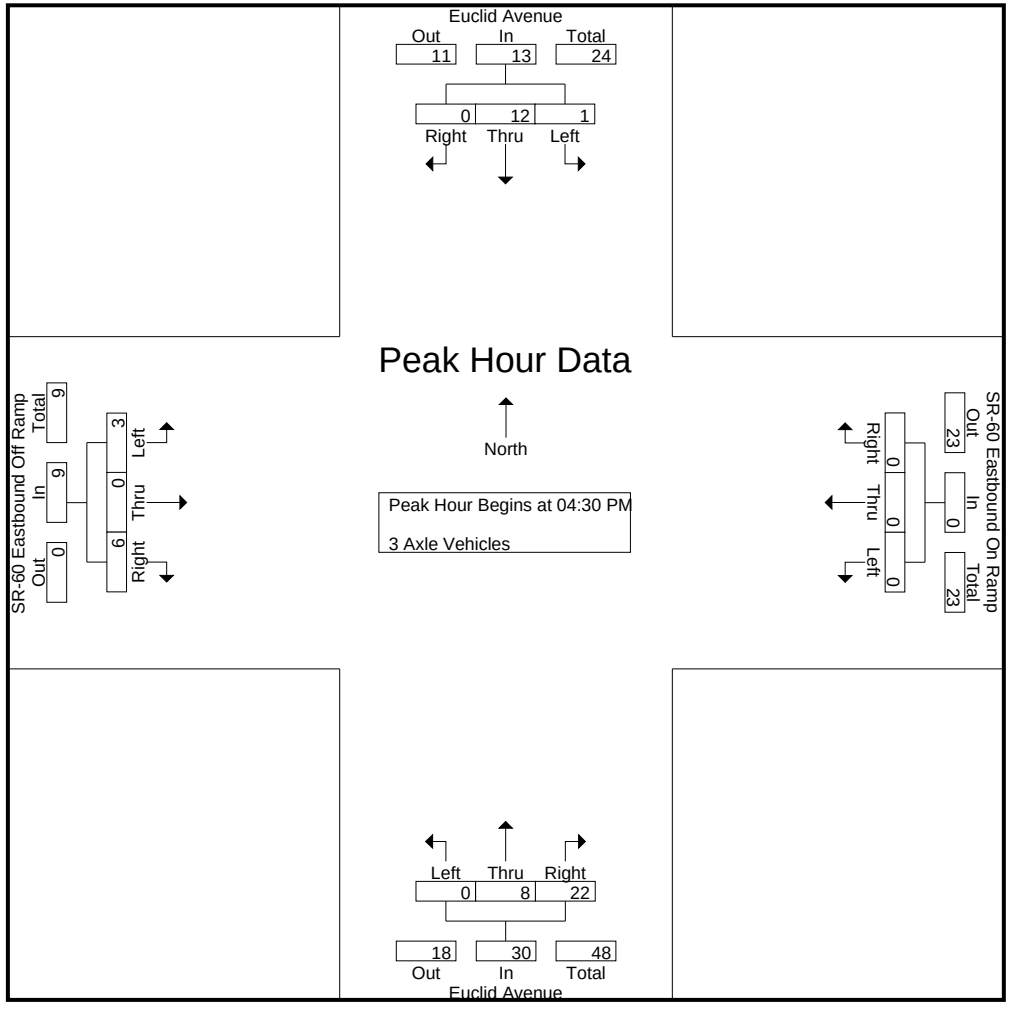
	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	4	0	0	4	0	0	0	0	0	0	3	3	2	6	1	0	0	0	1	2	11	13
04:15 PM	0	5	0	0	5	0	0	0	0	0	0	2	6	3	8	3	0	3	1	6	4	19	23
04:30 PM	1	3	0	0	4	0	0	0	0	0	0	3	6	1	9	0	0	1	0	1	1	14	15
04:45 PM	0	3	0	0	3	0	0	0	0	0	0	4	7	2	11	0	0	3	2	3	4	17	21
Total	1	15	0	0	16	0	0	0	0	0	0	12	22	8	34	4	0	7	3	11	11	61	72
05:00 PM	0	3	0	0	3	0	0	0	0	0	0	0	6	1	6	1	0	2	0	3	1	12	13
05:15 PM	0	3	0	0	3	0	0	0	0	0	0	1	3	1	4	2	0	0	0	2	1	9	10
05:30 PM	0	3	0	0	3	0	0	0	0	0	0	1	5	2	6	0	0	3	0	3	2	12	14
05:45 PM	1	3	0	0	4	0	0	0	0	0	0	1	3	0	4	2	0	0	0	2	0	10	10
Total	1	12	0	0	13	0	0	0	0	0	0	3	17	4	20	5	0	5	0	10	4	43	47
06:00 PM	0	4	0	0	4	0	0	0	0	0	0	4	0	0	4	1	0	2	0	3	0	11	11
06:15 PM	0	3	0	0	3	0	0	0	0	0	0	3	2	0	5	0	0	3	1	3	1	11	12
06:30 PM	0	4	0	0	4	0	0	0	0	0	0	1	0	0	1	1	0	1	1	2	1	7	8
06:45 PM	0	3	0	0	3	0	0	0	0	0	0	3	3	0	6	0	0	3	0	3	0	12	12
Total	0	14	0	0	14	0	0	0	0	0	0	11	5	0	16	2	0	9	2	11	2	41	43
Grand Total	2	41	0	0	43	0	0	0	0	0	0	26	44	12	70	11	0	21	5	32	17	145	162
Apprch %	4.7	95.3	0			0	0	0			0	37.1	62.9			34.4	0	65.6					
Total %	1.4	28.3	0		29.7	0	0	0		0	0	17.9	30.3		48.3	7.6	0	14.5		22.1	10.5	89.5	

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**1**	**3**	0	**4**	0	0	0	0	0	3	6	9	0	0	1	1	14
04:45 PM	0	3	0	3	0	0	0	0	0	**4**	**7**	**11**	0	0	**3**	**3**	**17**
05:00 PM	0	3	0	3	0	0	0	0	0	0	6	6	1	0	2	3	12
05:15 PM	0	3	0	3	0	0	0	0	0	1	3	4	**2**	0	0	2	9
Total Volume	1	12	0	13	0	0	0	0	0	8	22	30	3	0	6	9	52
% App. Total	7.7	92.3	0		0	0	0		0	26.7	73.3		33.3	0	66.7		
PHF	.250	1.00	.000	.813	.000	.000	.000	.000	.000	.500	.786	.682	.375	.000	.500	.750	.765

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	**1**	**3**	0	**4**	0	0	0	0	0	3	6	9	0	0	1	1	
+15 mins.	0	3	0	3	0	0	0	0	0	**4**	**7**	**11**	0	0	**3**	**3**	
+30 mins.	0	3	0	3	0	0	0	0	0	0	6	6	1	0	2	3	
+45 mins.	0	3	0	3	0	0	0	0	0	1	3	4	**2**	0	0	2	
Total Volume	1	12	0	13	0	0	0	0	0	8	22	30	3	0	6	9	
% App. Total	7.7	92.3	0		0	0	0		0	26.7	73.3		33.3	0	66.7		
PHF	.250	1.000	.000	.813	.000	.000	.000	.000	.000	.500	.786	.682	.375	.000	.500	.750	

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City of Ontario
N/S: Euclid Avenue
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File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

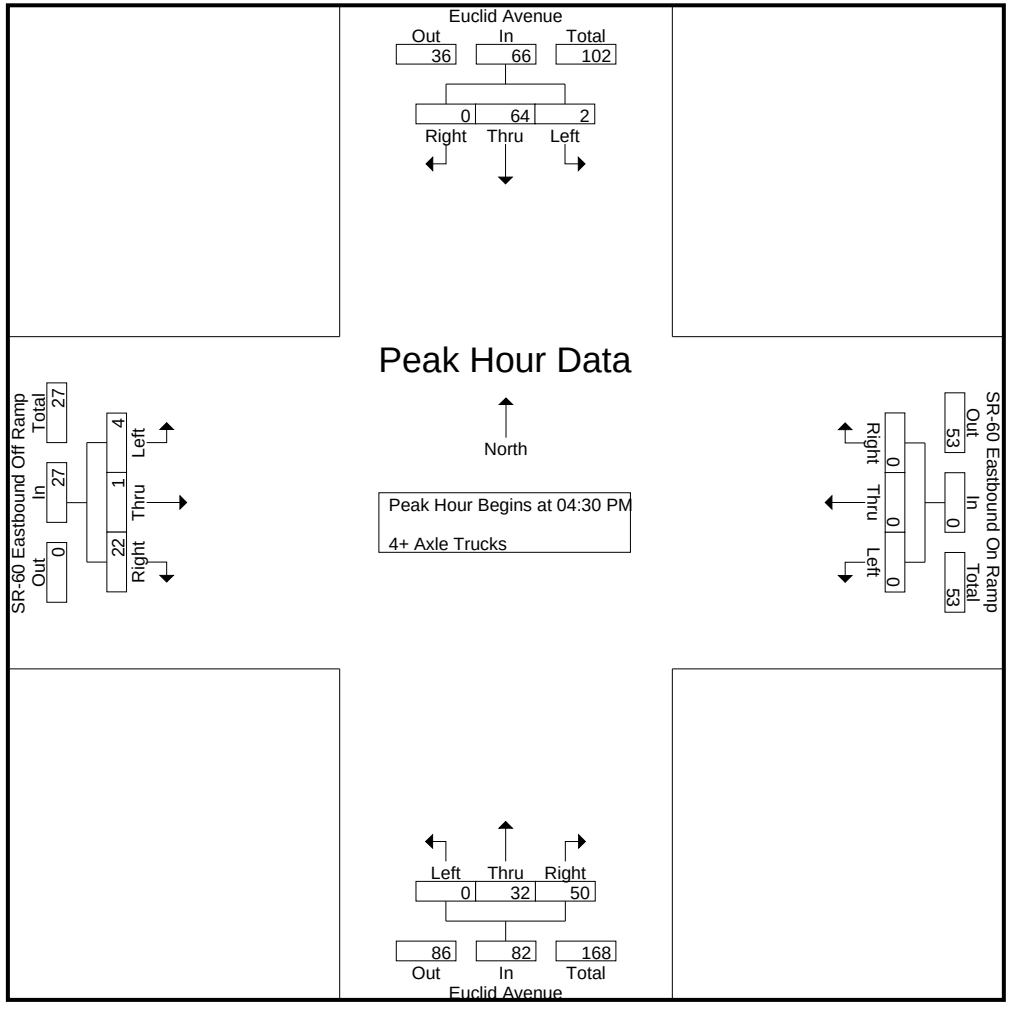
	Euclid Avenue Southbound					SR-60 Eastbound On Ramp Westbound					Euclid Avenue Northbound					SR-60 Eastbound Off Ramp Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	24	0	0	24	0	0	0	0	0	0	5	12	2	17	1	0	10	4	11	6	52	58
04:15 PM	1	15	0	0	16	0	0	0	0	0	0	3	13	4	16	2	0	7	2	9	6	41	47
04:30 PM	0	20	0	0	20	0	0	0	0	0	0	4	18	5	22	0	0	9	3	9	8	51	59
04:45 PM	1	21	0	0	22	0	0	0	0	0	0	7	10	2	17	4	1	5	1	10	3	49	52
Total	2	80	0	0	82	0	0	0	0	0	0	19	53	13	72	7	1	31	10	39	23	193	216
05:00 PM	1	9	0	0	10	0	0	0	0	0	0	9	8	3	17	0	0	4	1	4	4	31	35
05:15 PM	0	14	0	0	14	0	0	0	0	0	0	12	14	4	26	0	0	4	1	4	5	44	49
05:30 PM	0	23	0	0	23	0	0	0	0	0	0	14	17	5	31	2	0	3	1	5	6	59	65
05:45 PM	1	15	0	0	16	0	0	0	0	0	0	5	9	3	14	0	0	6	1	6	4	36	40
Total	2	61	0	0	63	0	0	0	0	0	0	40	48	15	88	2	0	17	4	19	19	170	189
06:00 PM	1	15	0	0	16	0	0	0	0	0	0	3	15	5	18	2	0	5	2	7	7	41	48
06:15 PM	0	14	0	0	14	0	0	0	0	0	0	13	9	3	22	0	0	10	3	10	6	46	52
06:30 PM	0	21	0	0	21	0	0	0	0	0	0	4	10	3	14	2	1	13	3	16	6	51	57
06:45 PM	1	15	0	0	16	0	0	0	0	0	0	5	20	6	25	2	0	10	3	12	9	53	62
Total	2	65	0	0	67	0	0	0	0	0	0	25	54	17	79	6	1	38	11	45	28	191	219
Grand Total	6	206	0	0	212	0	0	0	0	0	0	84	155	45	239	15	2	86	25	103	70	554	624
Apprch %	2.8	97.2	0			0	0	0			0	35.1	64.9			14.6	1.9	83.5					
Total %	1.1	37.2	0		38.3	0	0	0		0	0	15.2	28		43.1	2.7	0.4	15.5		18.6	11.2	88.8	

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	20	0	20	0	0	0	0	0	4	**18**	22	0	0	**9**	9	**51**
04:45 PM	**1**	**21**	0	**22**	0	0	0	0	0	7	10	17	**4**	**1**	5	**10**	49
05:00 PM	1	9	0	10	0	0	0	0	0	9	8	17	0	0	4	4	31
05:15 PM	0	14	0	14	0	0	0	0	0	**12**	14	**26**	0	0	4	4	44
Total Volume	2	64	0	66	0	0	0	0	0	32	50	82	4	1	22	27	175
% App. Total	3	97	0		0	0	0		0	39	61		14.8	3.7	81.5		
PHF	.500	.762	.000	.750	.000	.000	.000	.000	.000	.667	.694	.788	.250	.250	.611	.675	.858

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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: SR-60 Eastbound Ramps
Weather: Clear

File Name : 11_ONT_Eu_60E PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				SR-60 Eastbound On Ramp Westbound				Euclid Avenue Northbound				SR-60 Eastbound Off Ramp Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	0	20	0	20	0	0	0	0	0	4	**18**	22	0	0	**9**	9	
+15 mins.	**1**	**21**	0	**22**	0	0	0	0	0	7	10	17	**4**	**1**	5	**10**	
+30 mins.	1	9	0	10	0	0	0	0	0	9	8	17	0	0	4	4	
+45 mins.	0	14	0	14	0	0	0	0	0	**12**	14	**26**	0	0	4	4	
Total Volume	2	64	0	66	0	0	0	0	0	32	50	82	4	1	22	27	
% App. Total	3	97	0		0	0	0		0	39	61		14.8	3.7	81.5		
PHF	.500	.762	.000	.750	.000	.000	.000	.000	.000	.667	.694	.788	.250	.250	.611	.675	

Location: Ontario
N/S: Euclid Avenue
E/W: SR-60 EB Ramps

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg Euclid Avenue	East Leg SR-60 EB Ramps	South Leg Euclid Avenue	West Leg SR-60 EB Ramps	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
6:00 AM	0	0	0	1	1
6:15 AM	0	0	0	1	1
6:30 AM	0	0	0	1	1
6:45 AM	0	1	0	0	1
7:00 AM	0	0	0	0	0
7:15 AM	0	1	0	0	1
7:30 AM	0	0	0	0	0
7:45 AM	0	1	0	0	1
8:00 AM	0	1	0	2	3
8:15 AM	0	1	0	1	2
8:30 AM	0	1	0	1	2
8:45 AM	0	1	0	2	3
TOTAL VOLUMES:	0	7	0	9	16

	North Leg Euclid Avenue	East Leg SR-60 EB Ramps	South Leg Euclid Avenue	West Leg SR-60 EB Ramps	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	1	1
4:15 PM	0	2	0	1	3
4:30 PM	0	0	0	1	1
4:45 PM	0	0	0	1	1
5:00 PM	0	1	0	0	1
5:15 PM	0	0	0	2	2
5:30 PM	0	1	0	0	1
5:45 PM	0	0	0	1	1
6:00 PM	0	1	0	0	1
6:15 PM	0	0	0	0	0
6:30 PM	0	1	0	0	1
6:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	6	0	7	13

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Location: Ontario
N/S: Euclid Avenue
E/W: SR-60 EB Ramps

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound Euclid Avenue			Westbound SR-60 EB Ramps			Northbound Euclid Avenue			Eastbound SR-60 EB Ramps			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	2	0	0	0	0	0	0	0	0	0	0	2
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	4	0	0	0	0	0	1	0	0	0	0	5

	Southbound Euclid Avenue			Westbound SR-60 EB Ramps			Northbound Euclid Avenue			Eastbound SR-60 EB Ramps			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
4:45 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
5:00 PM	0	1	0	0	0	0	0	1	0	0	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
5:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 PM	0	2	0	0	0	0	0	1	0	0	0	0	3
6:45 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
TOTAL VOLUMES:	0	6	0	0	0	0	0	6	0	0	0	0	12

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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	12	229	4	2	245	14	15	40	18	69	5	112	4	0	121	15	11	10	7	36	27	471	498
06:15 AM	13	215	12	4	240	11	22	39	19	72	3	101	18	5	122	21	20	25	8	66	36	500	536
06:30 AM	23	243	8	2	274	19	31	31	9	81	6	155	4	2	165	28	19	26	16	73	29	593	622
06:45 AM	12	214	6	0	232	12	69	46	14	127	5	172	9	2	186	23	33	16	5	72	21	617	638
Total	60	901	30	8	991	56	137	156	60	349	19	540	35	9	594	87	83	77	36	247	113	2181	2294
07:00 AM	53	161	14	3	228	10	80	50	6	140	10	182	8	2	200	18	51	23	6	92	17	660	677
07:15 AM	34	162	21	7	217	18	76	57	16	151	21	202	8	3	231	34	67	26	6	127	32	726	758
07:30 AM	28	168	8	3	204	17	92	37	9	146	18	245	6	1	269	22	55	28	9	105	22	724	746
07:45 AM	47	201	17	2	265	22	93	34	3	149	32	210	6	4	248	23	63	22	7	108	16	770	786
Total	162	692	60	15	914	67	341	178	34	586	81	839	28	10	948	97	236	99	28	432	87	2880	2967
08:00 AM	50	205	15	5	270	22	92	31	5	145	17	199	5	2	221	25	58	23	7	106	19	742	761
08:15 AM	49	225	16	7	290	24	88	51	12	163	20	172	9	6	201	25	65	32	12	122	37	776	813
08:30 AM	41	239	19	3	299	12	55	36	8	103	11	188	9	1	208	13	28	31	12	72	24	682	706
08:45 AM	38	219	20	3	277	9	50	23	7	82	18	200	16	10	234	29	32	29	14	90	34	683	717
Total	178	888	70	18	1136	67	285	141	32	493	66	759	39	19	864	92	183	115	45	390	114	2883	2997
Grand Total	400	2481	160	41	3041	190	763	475	126	1428	166	2138	102	38	2406	276	502	291	109	1069	314	7944	8258
Apprch %	13.2	81.6	5.3			13.3	53.4	33.3			6.9	88.9	4.2			25.8	47	27.2					
Total %	5	31.2	2		38.3	2.4	9.6	6		18	2.1	26.9	1.3		30.3	3.5	6.3	3.7		13.5	3.8	96.2	
Passenger Vehicles	386	1921	157		2503	183	742	458		1506	159	1449	88		1730	272	488	279		1144	0	0	6883
% Passenger Vehicles	96.5	77.4	98.1	95.1	81.2	96.3	97.2	96.4	97.6	96.9	95.8	67.8	86.3	89.5	70.8	98.6	97.2	95.9	96.3	97.1	0	0	83.3
Large 2 Axle Vehicles	13	137	2		153	6	20	15		44	7	159	7		176	4	14	11		33	0	0	406
% Large 2 Axle Vehicles	3.2	5.5	1.2	2.4	5	3.2	2.6	3.2	2.4	2.8	4.2	7.4	6.9	7.9	7.2	1.4	2.8	3.8	3.7	2.8	0	0	4.9
3 Axle Vehicles	1	91	1		94	1	1	2		4	0	98	3		102	0	0	1		1	0	0	201
% 3 Axle Vehicles	0.2	3.7	0.6	2.4	3	0.5	0.1	0.4	0	0.3	0	4.6	2.9	2.6	4.2	0	0	0.3	0	0.1	0	0	2.4
4+ Axle Trucks	0	332	0		332	0	0	0		0	0	432	4		436	0	0	0		0	0	0	768
% 4+ Axle Trucks	0	13.4	0	0	10.8	0	0	0	0	0	0	20.2	3.9	0	17.8	0	0	0	0	0	0	0	9.3

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City of Ontario
N/S: Euclid Avenue
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Weather: Clear

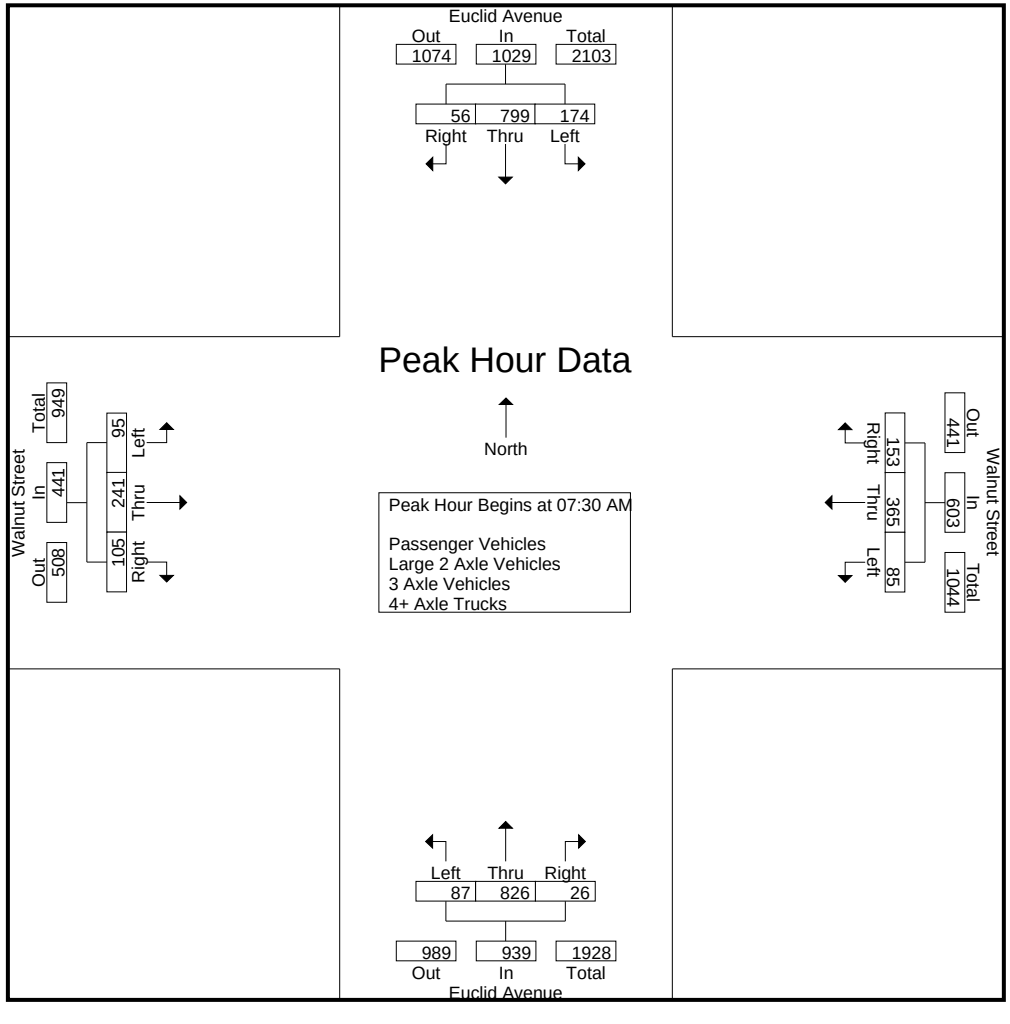
File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	28	168	8	204	17	92	37	146	18	**245**	6	**269**	22	55	28	105	724
07:45 AM	47	201	**17**	265	22	**93**	34	149	**32**	210	6	248	23	63	22	108	770
08:00 AM	**50**	205	15	270	22	92	31	145	17	199	5	221	**25**	58	23	106	742
08:15 AM	49	**225**	16	**290**	**24**	88	**51**	**163**	20	172	**9**	201	25	**65**	**32**	**122**	**776**
Total Volume	174	799	56	1029	85	365	153	603	87	826	26	939	95	241	105	441	3012
% App. Total	16.9	77.6	5.4		14.1	60.5	25.4		9.3	88	2.8		21.5	54.6	23.8		
PHF	.870	.888	.824	.887	.885	.981	.750	.925	.680	.843	.722	.873	.950	.927	.820	.904	.970

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File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
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Page No : 3



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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	08:00 AM				07:30 AM				07:15 AM				07:15 AM				
+0 mins.	**50**	205	15	270	17	92	37	146	21	202	**8**	231	**34**	**67**	26	**127**	
+15 mins.	49	225	16	290	22	**93**	34	149	18	**245**	6	**269**	22	55	**28**	105	
+30 mins.	41	**239**	19	**299**	22	92	31	145	**32**	210	6	248	23	63	22	108	
+45 mins.	38	219	**20**	277	**24**	88	**51**	**163**	17	199	5	221	25	58	23	106	
Total Volume	178	888	70	1136	85	365	153	603	88	856	25	969	104	243	99	446	
% App. Total	15.7	78.2	6.2		14.1	60.5	25.4		9.1	88.3	2.6		23.3	54.5	22.2		
PHF	.890	.929	.875	.950	.885	.981	.750	.925	.688	.873	.781	.901	.765	.907	.884	.878	

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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- Passenger Vehicles

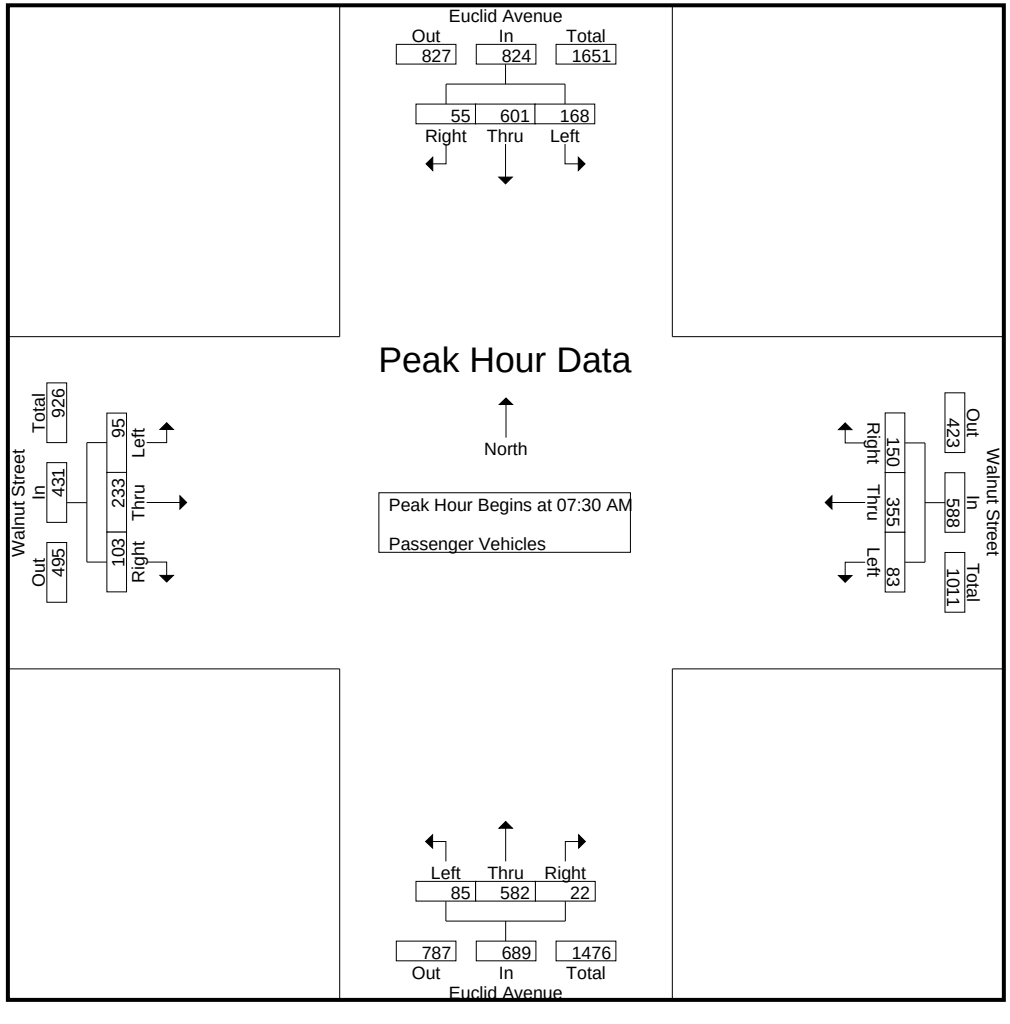
	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	9	182	4	2	195	14	15	39	17	68	4	75	2	0	81	14	11	10	7	35	26	379	405
06:15 AM	13	174	12	4	199	11	20	37	19	68	3	58	14	4	75	21	17	23	8	61	35	403	438
06:30 AM	22	199	8	2	229	17	31	31	9	79	6	91	4	2	101	27	18	25	15	70	28	479	507
06:45 AM	12	162	6	0	180	12	69	44	13	125	5	104	8	2	117	23	32	15	5	70	20	492	512
Total	56	717	30	8	803	54	135	151	58	340	18	328	28	8	374	85	78	73	35	236	109	1753	1862
07:00 AM	51	127	14	3	192	9	78	47	5	134	10	126	8	2	144	17	51	20	5	88	15	558	573
07:15 AM	32	118	20	6	170	17	74	52	16	143	20	134	7	3	161	33	66	25	5	124	30	598	628
07:30 AM	27	128	8	3	163	16	91	37	9	144	17	178	6	1	201	22	50	27	9	99	22	607	629
07:45 AM	45	150	17	2	212	22	89	34	3	145	31	146	5	3	182	23	63	21	7	107	15	646	661
Total	155	523	59	14	737	64	332	170	33	566	78	584	26	9	688	95	230	93	26	418	82	2409	2491
08:00 AM	49	150	15	5	214	22	90	31	5	143	17	143	5	2	165	25	57	23	7	105	19	627	646
08:15 AM	47	173	15	6	235	23	85	48	12	156	20	115	6	4	141	25	63	32	12	120	34	652	686
08:30 AM	41	189	18	3	248	12	51	35	8	98	10	140	8	1	158	13	28	31	12	72	24	576	600
08:45 AM	38	169	20	3	227	8	49	23	7	80	16	139	15	10	170	29	32	27	13	88	33	565	598
Total	175	681	68	17	924	65	275	137	32	477	63	537	34	17	634	92	180	113	44	385	110	2420	2530
Grand Total	386	1921	157	39	2464	183	742	458	123	1383	159	1449	88	34	1696	272	488	279	105	1039	301	6582	6883
Apprch %	15.7	78	6.4			13.2	53.7	33.1			9.4	85.4	5.2			26.2	47	26.9					
Total %	5.9	29.2	2.4		37.4	2.8	11.3	7		21	2.4	22	1.3		25.8	4.1	7.4	4.2		15.8	4.4	95.6	

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	27	128	8	163	16	**91**	37	144	17	**178**	**6**	**201**	22	50	27	99	607
07:45 AM	45	150	**17**	212	22	89	34	145	**31**	146	5	182	23	**63**	21	107	646
08:00 AM	**49**	150	15	214	22	90	31	143	17	143	5	165	**25**	57	23	105	627
08:15 AM	47	**173**	15	**235**	**23**	85	**48**	**156**	20	115	6	141	25	63	**32**	**120**	**652**
Total Volume	168	601	55	824	83	355	150	588	85	582	22	689	95	233	103	431	2532
% App. Total	20.4	72.9	6.7		14.1	60.4	25.5		12.3	84.5	3.2		22	54.1	23.9		
PHF	.857	.868	.809	.877	.902	.975	.781	.942	.685	.817	.917	.857	.950	.925	.805	.898	.971

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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	27	128	8	163	16	**91**	37	144	17	**178**	**6**	**201**	22	50	27	99	
+15 mins.	45	150	**17**	212	22	89	34	145	**31**	146	5	182	23	**63**	21	107	
+30 mins.	**49**	150	15	214	22	90	31	143	17	143	5	165	**25**	57	23	105	
+45 mins.	47	**173**	15	**235**	**23**	85	**48**	**156**	20	115	6	141	25	63	**32**	**120**	
Total Volume	168	601	55	824	83	355	150	588	85	582	22	689	95	233	103	431	
% App. Total	20.4	72.9	6.7		14.1	60.4	25.5		12.3	84.5	3.2		22	54.1	23.9		
PHF	.857	.868	.809	.877	.902	.975	.781	.942	.685	.817	.917	.857	.950	.925	.805	.898	

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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

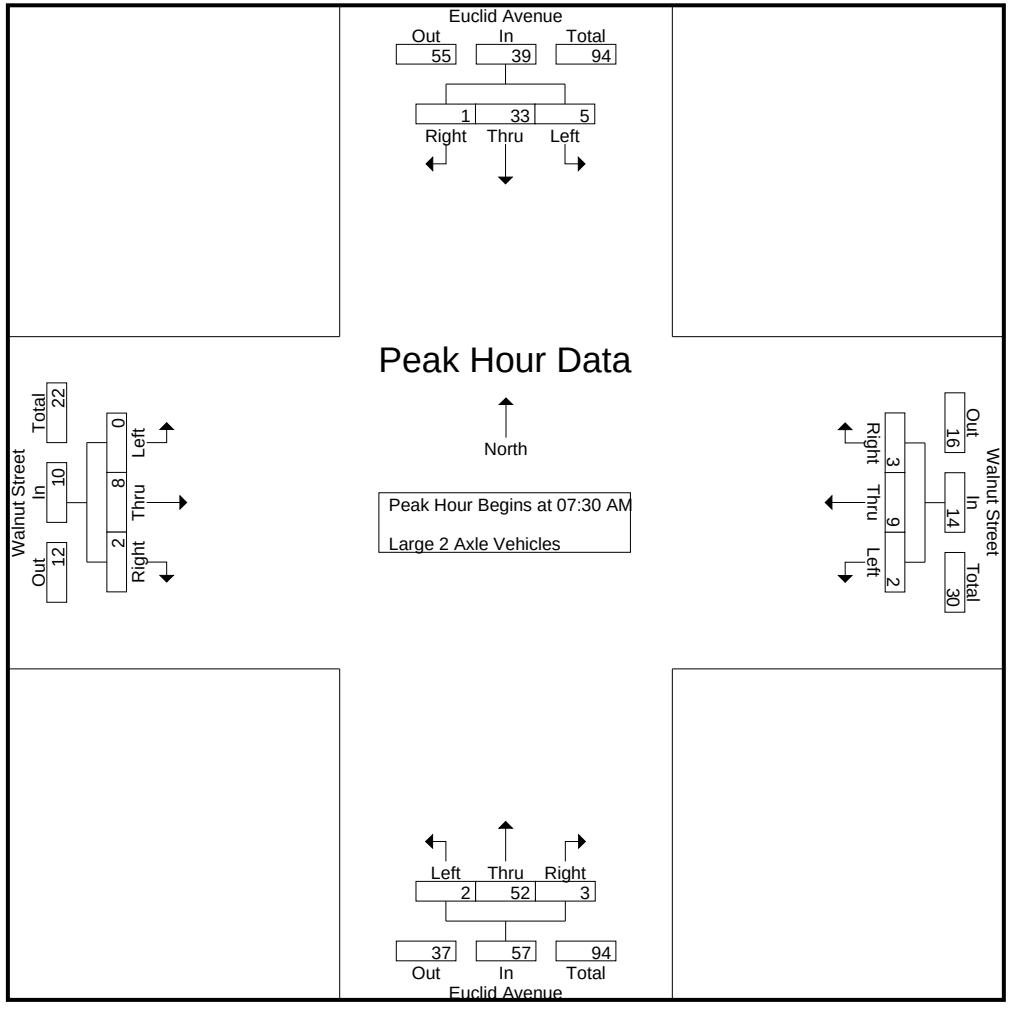
	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	3	5	0	0	8	0	0	1	1	1	1	3	0	0	4	1	0	0	0	1	1	14	15
06:15 AM	0	12	0	0	12	0	2	2	0	4	0	12	2	1	14	0	3	2	0	5	1	35	36
06:30 AM	1	20	0	0	21	2	0	0	0	2	0	17	0	0	17	1	1	1	1	3	1	43	44
06:45 AM	0	14	0	0	14	0	0	2	1	2	0	19	1	0	20	0	1	1	0	2	1	38	39
Total	4	51	0	0	55	2	2	5	2	9	1	51	3	1	55	2	5	4	1	11	4	130	134
07:00 AM	2	8	0	0	10	1	2	3	1	6	0	17	0	0	17	1	0	2	1	3	2	36	38
07:15 AM	2	11	0	0	13	1	2	3	0	6	1	19	0	0	20	1	1	1	1	3	1	42	43
07:30 AM	1	10	0	0	11	1	1	0	0	2	1	15	0	0	16	0	5	1	0	6	0	35	35
07:45 AM	1	6	0	0	7	0	3	0	0	3	1	9	0	0	10	0	0	1	0	1	0	21	21
Total	6	35	0	0	41	3	8	6	1	17	3	60	0	0	63	2	6	5	2	13	3	134	137
08:00 AM	1	9	0	0	10	0	2	0	0	2	0	16	0	0	16	0	1	0	0	1	0	29	29
08:15 AM	2	8	1	1	11	1	3	3	0	7	0	12	3	2	15	0	2	0	0	2	3	35	38
08:30 AM	0	18	1	0	19	0	4	1	0	5	1	10	1	0	12	0	0	0	0	0	0	36	36
08:45 AM	0	16	0	0	16	0	1	0	0	1	2	10	0	0	12	0	0	2	1	2	1	31	32
Total	3	51	2	1	56	1	10	4	0	15	3	48	4	2	55	0	3	2	1	5	4	131	135
Grand Total	13	137	2	1	152	6	20	15	3	41	7	159	7	3	173	4	14	11	4	29	11	395	406
Apprch %	8.6	90.1	1.3			14.6	48.8	36.6			4	91.9	4			13.8	48.3	37.9					
Total %	3.3	34.7	0.5		38.5	1.5	5.1	3.8		10.4	1.8	40.3	1.8		43.8	1	3.5	2.8		7.3	2.7	97.3	

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	1	**10**	0	**11**	**1**	1	0	2	**1**	15	0	**16**	0	**5**	**1**	**6**	**35**
07:45 AM	1	6	0	7	0	**3**	0	3	1	9	0	10	0	0	1	1	21
08:00 AM	1	9	0	10	0	2	0	2	0	**16**	0	16	0	1	0	1	29
08:15 AM	**2**	8	**1**	11	1	3	**3**	**7**	0	12	**3**	15	0	2	0	2	35
Total Volume	5	33	1	39	2	9	3	14	2	52	3	57	0	8	2	10	120
% App. Total	12.8	84.6	2.6		14.3	64.3	21.4		3.5	91.2	5.3		0	80	20		
PHF	.625	.825	.250	.886	.500	.750	.250	.500	.500	.813	.250	.891	.000	.400	.500	.417	.857

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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	1	**10**	0	**11**	**1**	1	0	2	**1**	15	0	**16**	0	**5**	**1**	**6**	
+15 mins.	1	6	0	7	0	**3**	0	3	1	9	0	10	0	0	1	1	
+30 mins.	1	9	0	10	0	2	0	2	0	**16**	0	16	0	1	0	1	
+45 mins.	**2**	8	**1**	11	1	3	**3**	**7**	0	12	**3**	15	0	2	0	2	
Total Volume	5	33	1	39	2	9	3	14	2	52	3	57	0	8	2	10	
% App. Total	12.8	84.6	2.6		14.3	64.3	21.4		3.5	91.2	5.3		0	80	20		
PHF	.625	.825	.250	.886	.500	.750	.250	.500	.500	.813	.250	.891	.000	.400	.500	.417	

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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- 3 Axle Vehicles

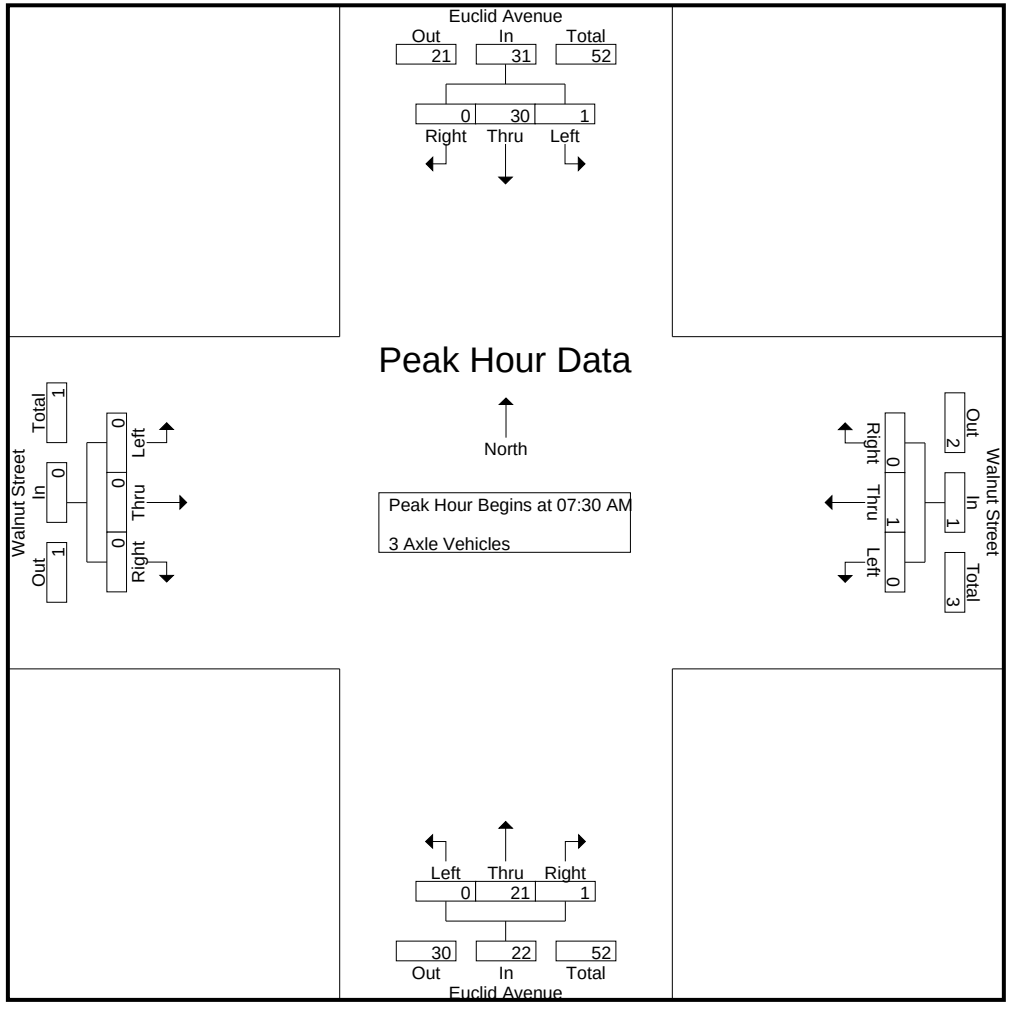
	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	11	0	0	11	0	0	0	0	0	0	8	2	0	10	0	0	0	0	0	0	21	21
06:15 AM	0	10	0	0	10	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	20	20
06:30 AM	0	8	0	0	8	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	18	18
06:45 AM	0	10	0	0	10	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	18	18
Total	0	39	0	0	39	0	0	0	0	0	0	36	2	0	38	0	0	0	0	0	0	77	77
07:00 AM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	1	0	1	0	10	10
07:15 AM	0	3	1	1	4	0	0	2	0	2	0	9	0	0	9	0	0	0	0	0	1	15	16
07:30 AM	0	7	0	0	7	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	12	12
07:45 AM	1	6	0	0	7	0	1	0	0	1	0	5	1	1	6	0	0	0	0	0	1	14	15
Total	1	20	1	1	22	0	1	2	0	3	0	24	1	1	25	0	0	1	0	1	2	51	53
08:00 AM	0	8	0	0	8	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	11	11
08:15 AM	0	9	0	0	9	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	17	17
08:30 AM	0	6	0	0	6	0	0	0	0	0	0	15	0	0	15	0	0	0	0	0	0	21	21
08:45 AM	0	9	0	0	9	1	0	0	0	1	0	12	0	0	12	0	0	0	0	0	0	22	22
Total	0	32	0	0	32	1	0	0	0	1	0	38	0	0	38	0	0	0	0	0	0	71	71
Grand Total	1	91	1	1	93	1	1	2	0	4	0	98	3	1	101	0	0	1	0	1	2	199	201
Apprch %	1.1	97.8	1.1			25	25	50			0	97	3			0	0	100					
Total %	0.5	45.7	0.5		46.7	0.5	0.5	1		2	0	49.2	1.5		50.8	0	0	0.5		0.5	1	99	

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	7	0	7	0	0	0	0	0	5	0	5	0	0	0	0	12
07:45 AM	**1**	6	0	7	0	**1**	0	**1**	0	5	**1**	6	0	0	0	0	14
08:00 AM	0	8	0	8	0	0	0	0	0	3	0	3	0	0	0	0	11
08:15 AM	0	**9**	0	**9**	0	0	0	0	0	**8**	0	**8**	0	0	0	0	**17**
Total Volume	1	30	0	31	0	1	0	1	0	21	1	22	0	0	0	0	54
% App. Total	3.2	96.8	0		0	100	0		0	95.5	4.5		0	0	0		
PHF	.250	.833	.000	.861	.000	.250	.000	.250	.000	.656	.250	.688	.000	.000	.000	.000	.794

Counts Unlimited, Inc.
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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
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City of Ontario
N/S: Euclid Avenue
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Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	0	7	0	7	0	0	0	0	0	5	0	5	0	0	0	0	
+15 mins.	**1**	6	0	7	0	**1**	0	**1**	0	5	**1**	6	0	0	0	0	
+30 mins.	0	8	0	8	0	0	0	0	0	3	0	3	0	0	0	0	
+45 mins.	0	**9**	0	**9**	0	0	0	0	0	**8**	0	**8**	0	0	0	0	
Total Volume	1	30	0	31	0	1	0	1	0	21	1	22	0	0	0	0	
% App. Total	3.2	96.8	0		0	100	0		0	95.5	4.5		0	0	0		
PHF	.250	.833	.000	.861	.000	.250	.000	.250	.000	.656	.250	.688	.000	.000	.000	.000	

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Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- 4+ Axle Trucks

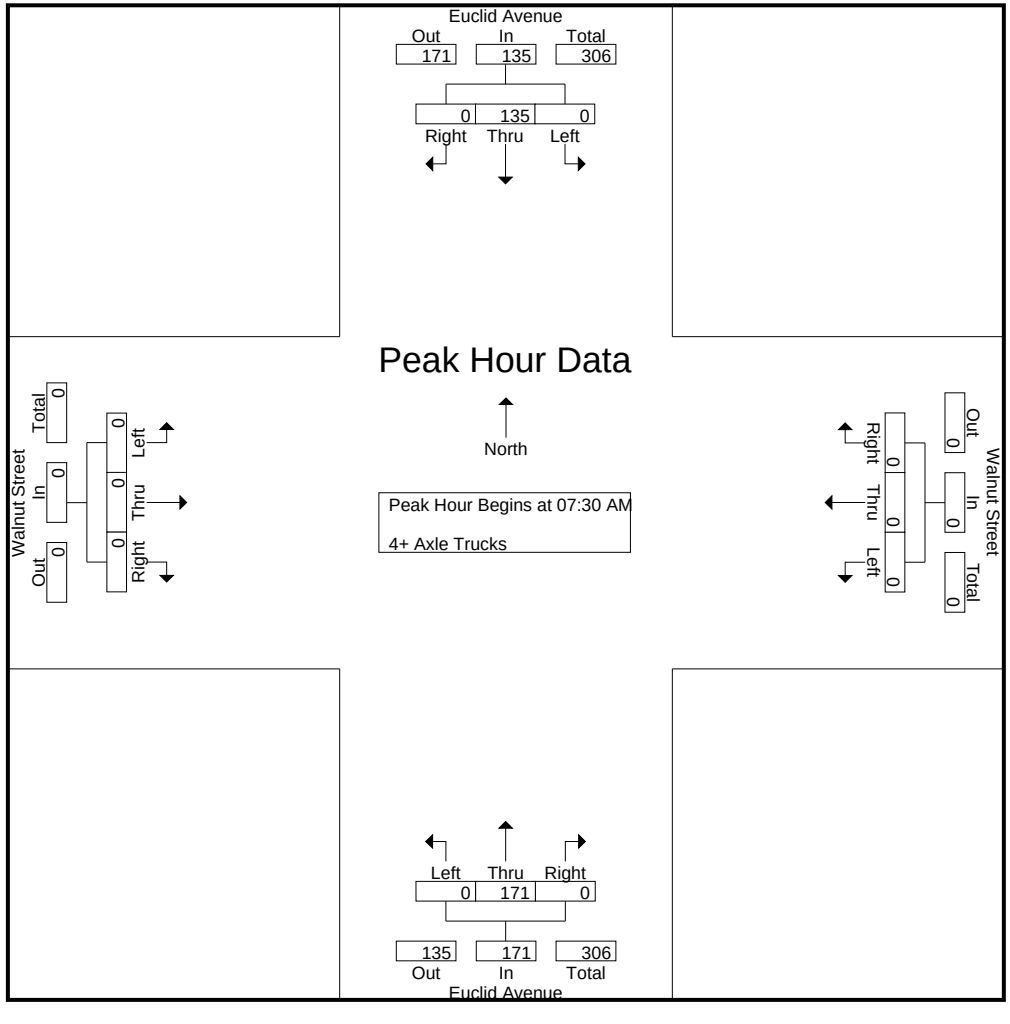
	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	31	0	0	31	0	0	0	0	0	0	26	0	0	26	0	0	0	0	0	0	57	57
06:15 AM	0	19	0	0	19	0	0	0	0	0	0	21	2	0	23	0	0	0	0	0	0	42	42
06:30 AM	0	16	0	0	16	0	0	0	0	0	0	37	0	0	37	0	0	0	0	0	0	53	53
06:45 AM	0	28	0	0	28	0	0	0	0	0	0	41	0	0	41	0	0	0	0	0	0	69	69
Total	0	94	0	0	94	0	0	0	0	0	0	125	2	0	127	0	0	0	0	0	0	221	221
07:00 AM	0	22	0	0	22	0	0	0	0	0	0	34	0	0	34	0	0	0	0	0	0	56	56
07:15 AM	0	30	0	0	30	0	0	0	0	0	0	40	1	0	41	0	0	0	0	0	0	71	71
07:30 AM	0	23	0	0	23	0	0	0	0	0	0	47	0	0	47	0	0	0	0	0	0	70	70
07:45 AM	0	39	0	0	39	0	0	0	0	0	0	50	0	0	50	0	0	0	0	0	0	89	89
Total	0	114	0	0	114	0	0	0	0	0	0	171	1	0	172	0	0	0	0	0	0	286	286
08:00 AM	0	38	0	0	38	0	0	0	0	0	0	37	0	0	37	0	0	0	0	0	0	75	75
08:15 AM	0	35	0	0	35	0	0	0	0	0	0	37	0	0	37	0	0	0	0	0	0	72	72
08:30 AM	0	26	0	0	26	0	0	0	0	0	0	23	0	0	23	0	0	0	0	0	0	49	49
08:45 AM	0	25	0	0	25	0	0	0	0	0	0	39	1	0	40	0	0	0	0	0	0	65	65
Total	0	124	0	0	124	0	0	0	0	0	0	136	1	0	137	0	0	0	0	0	0	261	261
Grand Total	0	332	0	0	332	0	0	0	0	0	0	432	4	0	436	0	0	0	0	0	0	768	768
Apprch %	0	100	0			0	0	0			0	99.1	0.9			0	0	0				
Total %	0	43.2	0		43.2	0	0	0		0	0	56.2	0.5		56.8	0	0	0		0	0	100	

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	23	0	23	0	0	0	0	0	47	0	47	0	0	0	0	70
07:45 AM	0	**39**	0	**39**	0	0	0	0	0	**50**	0	**50**	0	0	0	0	**89**
08:00 AM	0	38	0	38	0	0	0	0	0	37	0	37	0	0	0	0	75
08:15 AM	0	35	0	35	0	0	0	0	0	37	0	37	0	0	0	0	72
Total Volume	0	135	0	135	0	0	0	0	0	171	0	171	0	0	0	0	306
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.865	.000	.865	.000	.000	.000	.000	.000	.855	.000	.855	.000	.000	.000	.000	.860

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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal AM
Site Code : 05122422
Start Date : 5/10/2022
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Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	0	23	0	23	0	0	0	0	0	47	0	47	0	0	0	0	
+15 mins.	0	**39**	0	**39**	0	0	0	0	0	**50**	0	**50**	0	0	0	0	
+30 mins.	0	38	0	38	0	0	0	0	0	37	0	37	0	0	0	0	
+45 mins.	0	35	0	35	0	0	0	0	0	37	0	37	0	0	0	0	
Total Volume	0	135	0	135	0	0	0	0	0	171	0	171	0	0	0	0	
% App. Total	0	100	0		0	0	0		0	100	0		0	0	0		
PHF	.000	.865	.000	.865	.000	.000	.000	.000	.000	.855	.000	.855	.000	.000	.000	.000	

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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	68	194	27	7	289	14	52	35	8	101	21	181	8	4	210	24	93	26	3	143	22	743	765
04:15 PM	59	188	28	11	275	18	53	33	4	104	20	202	15	3	237	47	118	18	1	183	19	799	818
04:30 PM	69	203	38	14	310	13	60	37	8	110	28	191	25	7	244	25	99	32	8	156	37	820	857
04:45 PM	72	206	21	4	299	15	69	25	1	109	28	199	12	2	239	18	92	17	3	127	10	774	784
Total	268	791	114	36	1173	60	234	130	21	424	97	773	60	16	930	114	402	93	15	609	88	3136	3224
05:00 PM	61	174	32	10	267	14	47	40	15	101	30	199	13	1	242	18	104	24	4	146	30	756	786
05:15 PM	65	187	28	8	280	17	71	41	11	129	25	204	17	4	246	30	126	37	5	193	28	848	876
05:30 PM	65	197	26	9	288	11	45	34	8	90	22	182	24	2	228	29	127	39	5	195	24	801	825
05:45 PM	59	209	30	9	298	18	55	23	5	96	22	203	12	2	237	37	112	44	15	193	31	824	855
Total	250	767	116	36	1133	60	218	138	39	416	99	788	66	9	953	114	469	144	29	727	113	3229	3342
06:00 PM	73	160	25	3	258	10	43	29	10	82	23	193	16	3	232	28	90	27	8	145	24	717	741
06:15 PM	88	173	25	8	286	8	40	43	16	91	30	186	9	4	225	22	83	42	9	147	37	749	786
06:30 PM	62	181	22	4	265	8	45	30	9	83	19	171	10	1	200	14	73	32	9	119	23	667	690
06:45 PM	74	154	28	6	256	12	43	25	4	80	9	168	10	1	187	22	47	28	7	97	18	620	638
Total	297	668	100	21	1065	38	171	127	39	336	81	718	45	9	844	86	293	129	33	508	102	2753	2855
Grand Total	815	2226	330	93	3371	158	623	395	99	1176	277	2279	171	34	2727	314	1164	366	77	1844	303	9118	9421
Apprch %	24.2	66	9.8			13.4	53	33.6			10.2	83.6	6.3			17	63.1	19.8					
Total %	8.9	24.4	3.6		37	1.7	6.8	4.3		12.9	3	25	1.9		29.9	3.4	12.8	4		20.2	3.2	96.8	
Passenger Vehicles	807	1797	328		3025	153	620	389		1261	269	1893	169		2365	309	1153	360		1897	0	0	8548
% Passenger Vehicles	99	80.7	99.4	100	87.3	96.8	99.5	98.5	100	98.9	97.1	83.1	98.8	100	85.7	98.4	99.1	98.4	97.4	98.8	0	0	90.7
Large 2 Axle Vehicles	6	83	0		89	5	3	4		12	6	74	2		82	5	11	4		21	0	0	204
% Large 2 Axle Vehicles	0.7	3.7	0	0	2.6	3.2	0.5	1	0	0.9	2.2	3.2	1.2	0	3	1.6	0.9	1.1	1.3	1.1	0	0	2.2
3 Axle Vehicles	1	66	0		67	0	0	1		1	1	66	0		67	0	0	1		1	0	0	136
% 3 Axle Vehicles	0.1	3	0	0	1.9	0	0	0.3	0	0.1	0.4	2.9	0	0	2.4	0	0	0.3	0	0.1	0	0	1.4
4+ Axle Trucks	1	280	2		283	0	0	1		1	1	246	0		247	0	0	1		2	0	0	533
% 4+ Axle Trucks	0.1	12.6	0.6	0	8.2	0	0	0.3	0	0.1	0.4	10.8	0	0	8.9	0	0	0.3	1.3	0.1	0	0	5.7

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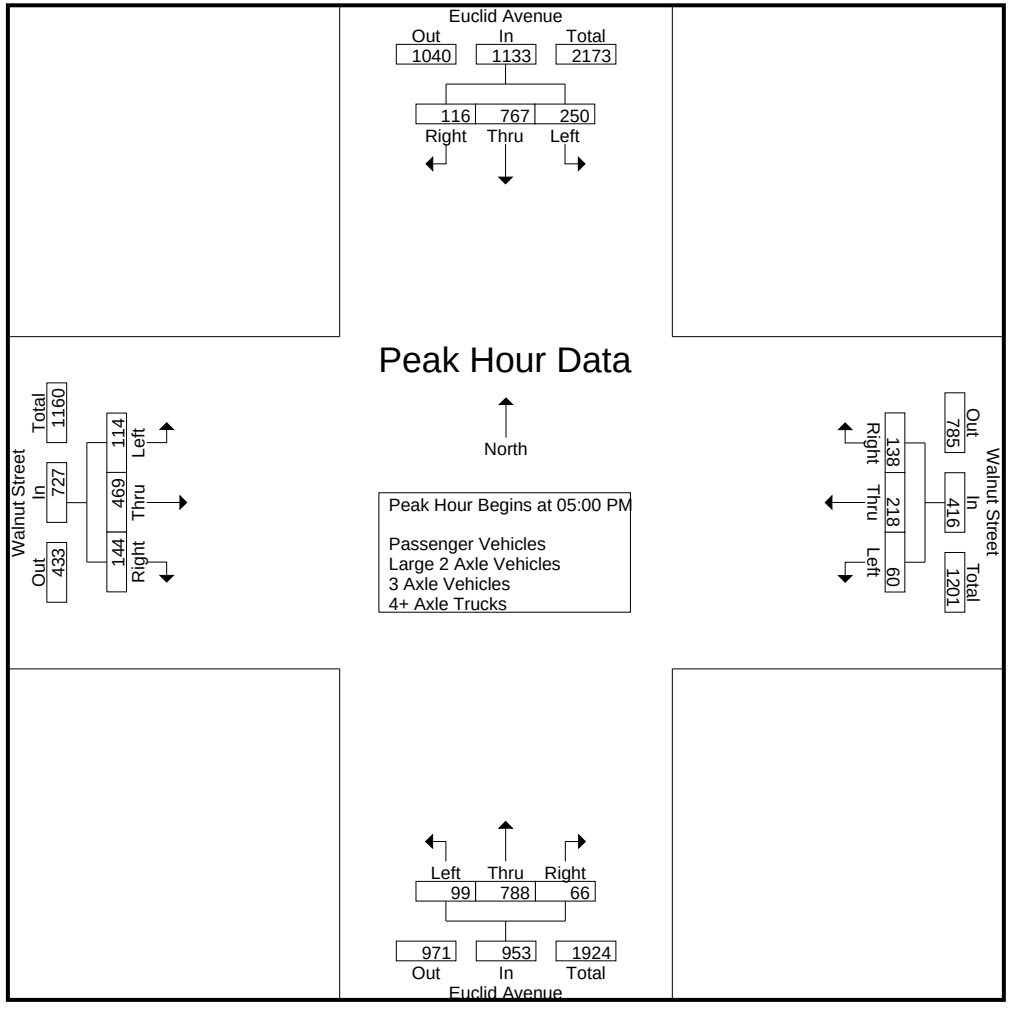
File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
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	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	61	174	**32**	267	14	47	40	101	**30**	199	13	242	18	104	24	146	756
05:15 PM	**65**	187	28	280	17	**71**	**41**	**129**	25	**204**	17	**246**	30	126	37	193	**848**
05:30 PM	65	197	26	288	11	45	34	90	22	182	**24**	228	29	**127**	39	**195**	801
05:45 PM	59	**209**	30	**298**	**18**	55	23	96	22	203	12	237	**37**	112	**44**	193	824
Total Volume	250	767	116	1133	60	218	138	416	99	788	66	953	114	469	144	727	3229
% App. Total	22.1	67.7	10.2		14.4	52.4	33.2		10.4	82.7	6.9		15.7	64.5	19.8		
PHF	.962	.917	.906	.951	.833	.768	.841	.806	.825	.966	.688	.968	.770	.923	.818	.932	.952

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City of Ontario
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File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:00 PM				04:30 PM				04:30 PM				05:00 PM				
+0 mins.	68	194	27	289	13	60	37	110	28	191	**25**	244	18	104	24	146	
+15 mins.	59	188	28	275	15	69	25	109	28	199	12	239	30	126	37	193	
+30 mins.	69	203	**38**	**310**	14	47	40	101	**30**	199	13	242	29	**127**	39	**195**	
+45 mins.	**72**	**206**	21	299	**17**	**71**	**41**	**129**	25	**204**	17	**246**	**37**	112	**44**	193	
Total Volume	268	791	114	1173	59	247	143	449	111	793	67	971	114	469	144	727	
% App. Total	22.8	67.4	9.7		13.1	55	31.8		11.4	81.7	6.9		15.7	64.5	19.8		
PHF	.931	.960	.750	.946	.868	.870	.872	.870	.925	.972	.670	.987	.770	.923	.818	.932	

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Groups Printed- Passenger Vehicles

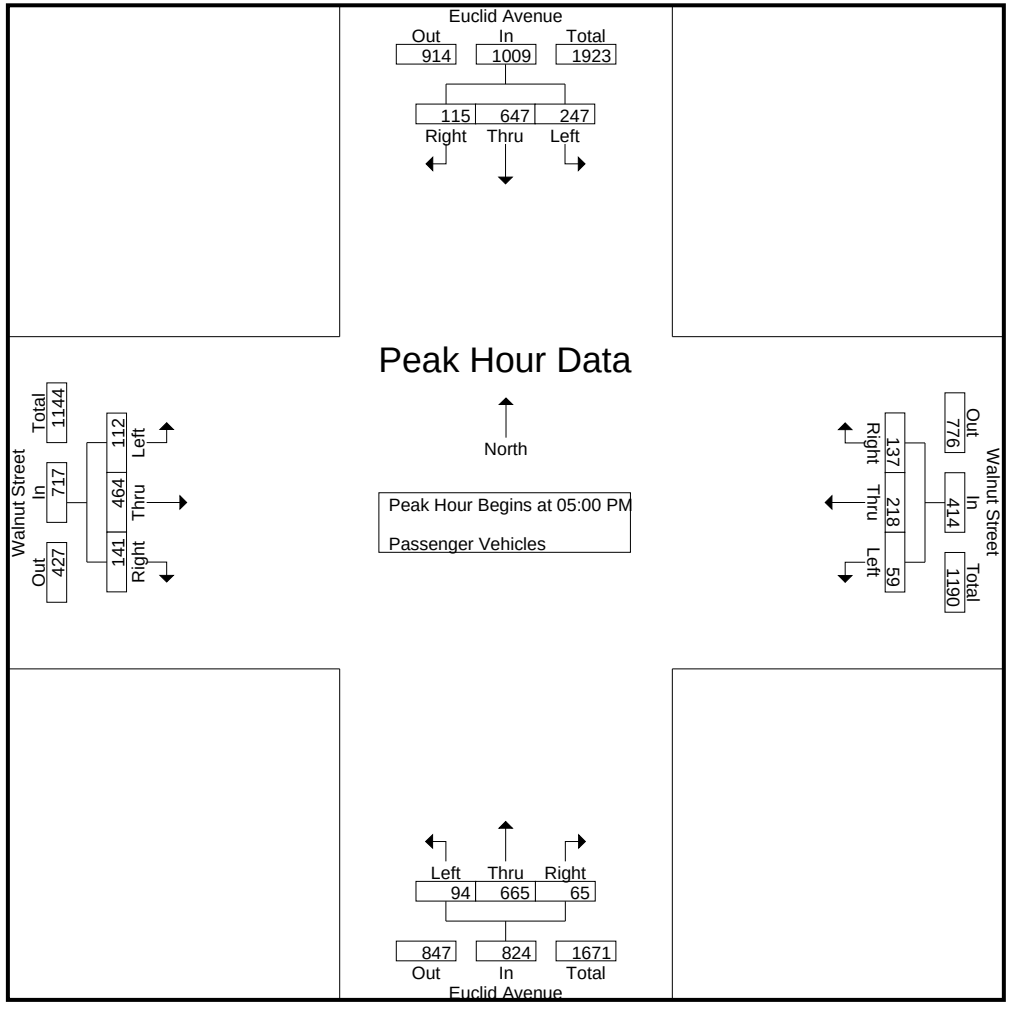
	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	68	155	27	7	250	14	49	34	8	97	20	147	8	4	175	23	92	26	3	141	22	663	685
04:15 PM	57	150	27	11	234	15	53	33	4	101	20	159	15	3	194	47	116	17	1	180	19	709	728
04:30 PM	69	161	38	14	268	13	60	35	8	108	28	156	25	7	209	25	98	31	7	154	36	739	775
04:45 PM	71	164	21	4	256	15	69	25	1	109	28	159	12	2	199	17	92	17	3	126	10	690	700
Total	265	630	113	36	1008	57	231	127	21	415	96	621	60	16	777	112	398	91	14	601	87	2801	2888
05:00 PM	61	147	32	10	240	14	47	39	15	100	28	174	13	1	215	18	103	24	4	145	30	700	730
05:15 PM	65	161	28	8	254	17	71	41	11	129	24	167	17	4	208	28	125	37	5	190	28	781	809
05:30 PM	65	161	26	9	252	10	45	34	8	89	21	147	23	2	191	29	126	39	5	194	24	726	750
05:45 PM	56	178	29	9	263	18	55	23	5	96	21	177	12	2	210	37	110	41	14	188	30	757	787
Total	247	647	115	36	1009	59	218	137	39	414	94	665	65	9	824	112	464	141	28	717	112	2964	3076
06:00 PM	73	128	25	3	226	9	43	28	10	80	23	167	15	3	205	28	90	26	8	144	24	655	679
06:15 PM	88	132	25	8	245	8	40	43	16	91	28	158	9	4	195	21	82	42	9	145	37	676	713
06:30 PM	60	137	22	4	219	8	45	29	9	82	19	147	10	1	176	14	73	32	9	119	23	596	619
06:45 PM	74	123	28	6	225	12	43	25	4	80	9	135	10	1	154	22	46	28	7	96	18	555	573
Total	295	520	100	21	915	37	171	125	39	333	79	607	44	9	730	85	291	128	33	504	102	2482	2584
Grand Total	807	1797	328	93	2932	153	620	389	99	1162	269	1893	169	34	2331	309	1153	360	75	1822	301	8247	8548
Apprch %	27.5	61.3	11.2			13.2	53.4	33.5			11.5	81.2	7.3			17	63.3	19.8					
Total %	9.8	21.8	4		35.6	1.9	7.5	4.7		14.1	3.3	23	2		28.3	3.7	14	4.4		22.1	3.5	96.5	

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	61	147	**32**	240	14	47	39	100	**28**	174	13	**215**	18	103	24	145	700
05:15 PM	**65**	161	28	254	17	**71**	**41**	**129**	24	167	17	208	28	125	37	190	**781**
05:30 PM	65	161	26	252	10	45	34	89	21	147	**23**	191	29	**126**	39	**194**	726
05:45 PM	56	**178**	29	**263**	**18**	55	23	96	21	**177**	12	210	**37**	110	**41**	188	757
Total Volume	247	647	115	1009	59	218	137	414	94	665	65	824	112	464	141	717	2964
% App. Total	24.5	64.1	11.4		14.3	52.7	33.1		11.4	80.7	7.9		15.6	64.7	19.7		
PHF	.950	.909	.898	.959	.819	.768	.835	.802	.839	.939	.707	.958	.757	.921	.860	.924	.949

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	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	61	147	**32**	240	14	47	39	100	**28**	174	13	**215**	18	103	24	145	
+15 mins.	**65**	161	28	254	17	**71**	**41**	**129**	24	167	17	208	28	125	37	190	
+30 mins.	65	161	26	252	10	45	34	89	21	147	**23**	191	29	**126**	39	**194**	
+45 mins.	56	**178**	29	**263**	**18**	55	23	96	21	**177**	12	210	**37**	110	**41**	188	
Total Volume	247	647	115	1009	59	218	137	414	94	665	65	824	112	464	141	717	
% App. Total	24.5	64.1	11.4		14.3	52.7	33.1		11.4	80.7	7.9		15.6	64.7	19.7		
PHF	.950	.909	.898	.959	.819	.768	.835	.802	.839	.939	.707	.958	.757	.921	.860	.924	

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Groups Printed- Large 2 Axle Vehicles

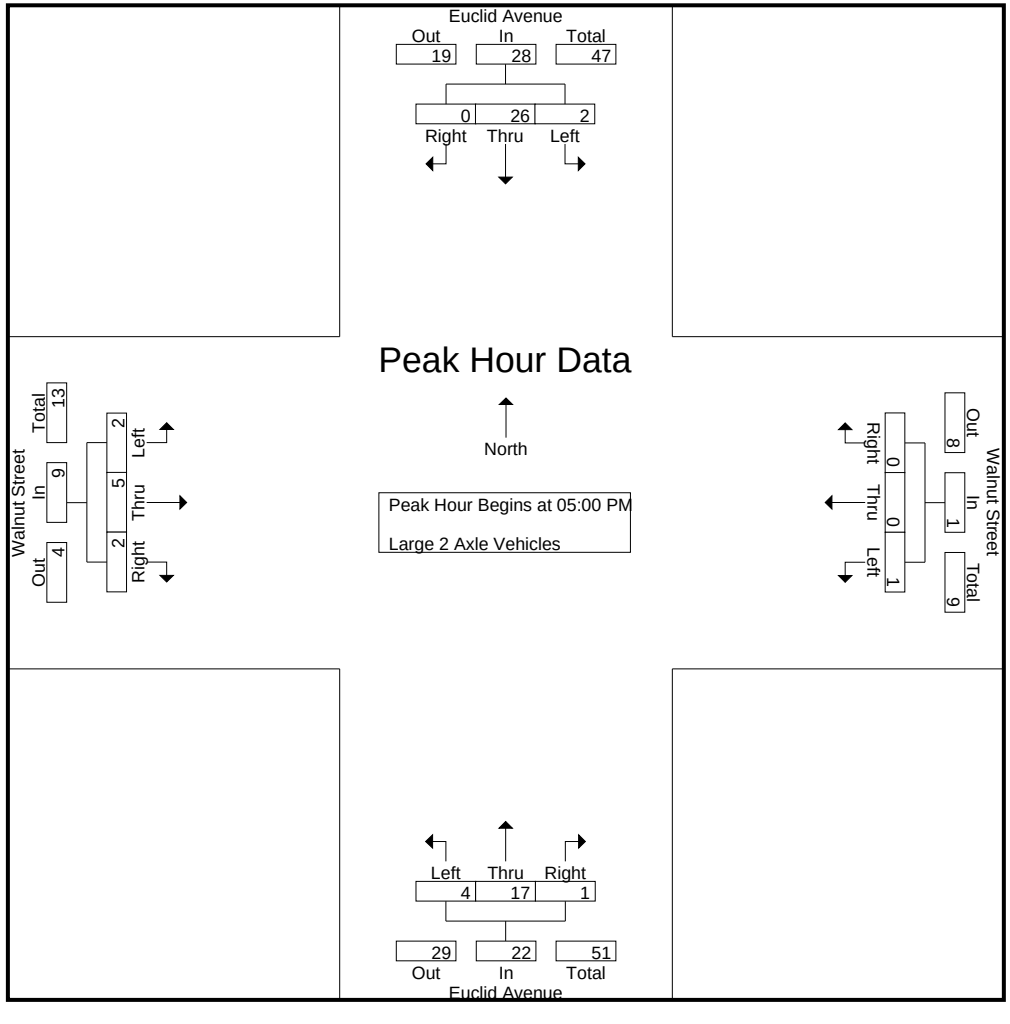
	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	6	0	0	6	0	3	1	0	4	1	8	0	0	9	1	1	0	0	2	0	21	21
04:15 PM	2	9	0	0	11	3	0	0	0	3	0	14	0	0	14	0	2	1	0	3	0	31	31
04:30 PM	0	9	0	0	9	0	0	1	0	1	0	7	0	0	7	0	1	0	0	1	0	18	18
04:45 PM	1	12	0	0	13	0	0	0	0	0	0	13	0	0	13	1	0	0	0	1	0	27	27
Total	3	36	0	0	39	3	3	2	0	8	1	42	0	0	43	2	4	1	0	7	0	97	97
05:00 PM	0	8	0	0	8	0	0	0	0	0	2	4	0	0	6	0	1	0	0	1	0	15	15
05:15 PM	0	5	0	0	5	0	0	0	0	0	0	5	0	0	5	2	1	0	0	3	0	13	13
05:30 PM	0	4	0	0	4	1	0	0	0	1	1	4	1	0	6	0	1	0	0	1	0	12	12
05:45 PM	2	9	0	0	11	0	0	0	0	0	1	4	0	0	5	0	2	2	1	4	1	20	21
Total	2	26	0	0	28	1	0	0	0	1	4	17	1	0	22	2	5	2	1	9	1	60	61
06:00 PM	0	5	0	0	5	1	0	1	0	2	0	7	1	0	8	0	0	1	0	1	0	16	16
06:15 PM	0	12	0	0	12	0	0	0	0	0	1	3	0	0	4	1	1	0	0	2	0	18	18
06:30 PM	1	3	0	0	4	0	0	1	0	1	0	2	0	0	2	0	0	0	0	0	0	7	7
06:45 PM	0	1	0	0	1	0	0	0	0	0	0	3	0	0	3	0	1	0	0	1	0	5	5
Total	1	21	0	0	22	1	0	2	0	3	1	15	1	0	17	1	2	1	0	4	0	46	46
Grand Total	6	83	0	0	89	5	3	4	0	12	6	74	2	0	82	5	11	4	1	20	1	203	204
Apprch %	6.7	93.3	0			41.7	25	33.3			7.3	90.2	2.4			25	55	20					
Total %	3	40.9	0		43.8	2.5	1.5	2		5.9	3	36.5	1		40.4	2.5	5.4	2		9.9	0.5	99.5	

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	8	0	8	0	0	0	0	**2**	4	0	**6**	0	1	0	1	15
05:15 PM	0	5	0	5	0	0	0	0	0	**5**	0	5	**2**	1	0	3	13
05:30 PM	0	4	0	4	**1**	0	0	**1**	1	4	**1**	6	0	1	0	1	12
05:45 PM	**2**	**9**	0	**11**	0	0	0	0	1	4	0	5	0	**2**	**2**	**4**	**20**
Total Volume	2	26	0	28	1	0	0	1	4	17	1	22	2	5	2	9	60
% App. Total	7.1	92.9	0		100	0	0		18.2	77.3	4.5		22.2	55.6	22.2		
PHF	.250	.722	.000	.636	.250	.000	.000	.250	.500	.850	.250	.917	.250	.625	.250	.563	.750

Counts Unlimited, Inc.
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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
Start Date : 5/10/2022
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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	0	8	0	8	0	0	0	0	**2**	4	0	**6**	0	1	0	1	
+15 mins.	0	5	0	5	0	0	0	0	0	**5**	0	5	**2**	1	0	3	
+30 mins.	0	4	0	4	**1**	0	0	**1**	1	4	**1**	6	0	1	0	1	
+45 mins.	**2**	**9**	0	**11**	0	0	0	0	1	4	0	5	0	**2**	**2**	**4**	
Total Volume	2	26	0	28	1	0	0	1	4	17	1	22	2	5	2	9	
% App. Total	7.1	92.9	0		100	0	0		18.2	77.3	4.5		22.2	55.6	22.2		
PHF	.250	.722	.000	.636	.250	.000	.000	.250	.500	.850	.250	.917	.250	.625	.250	.563	

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City of Ontario
N/S: Euclid Avenue
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Weather: Clear

File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

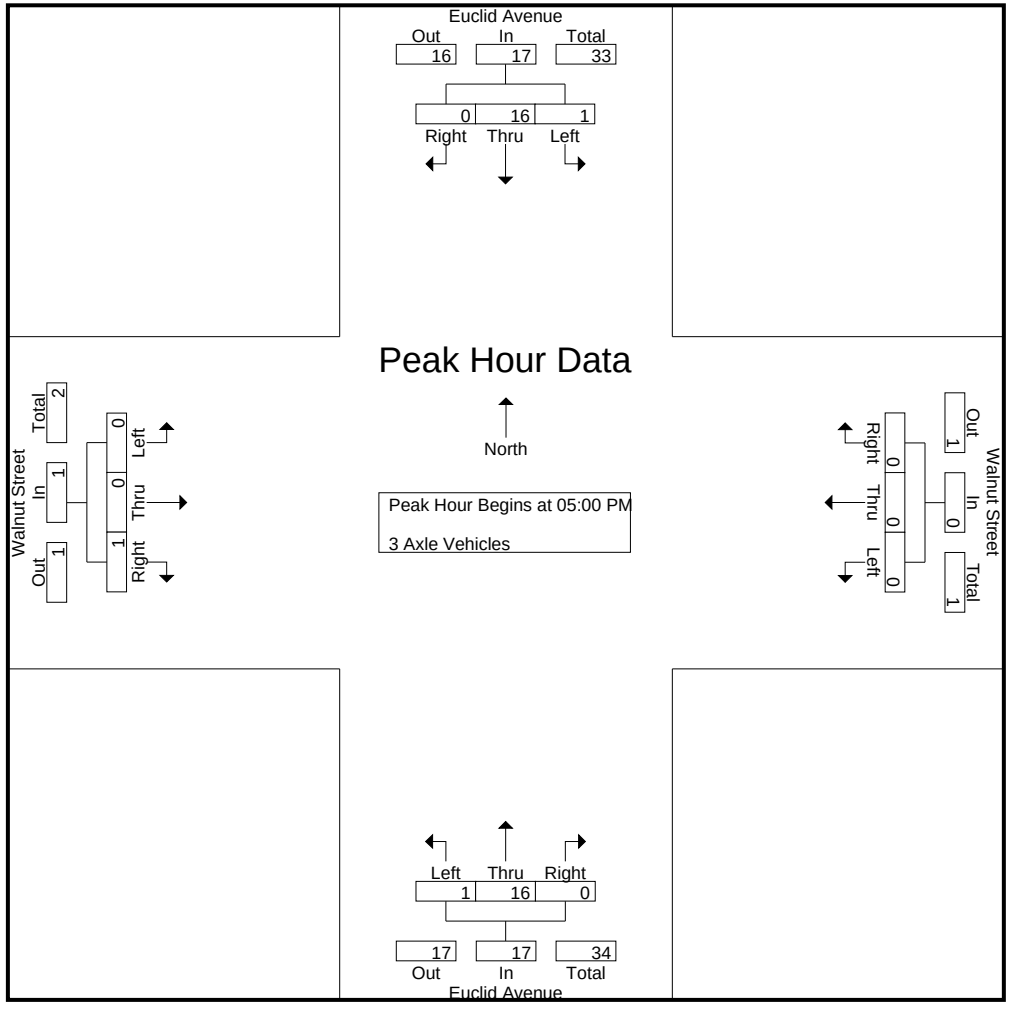
	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	4	0	0	4	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	11	11
04:15 PM	0	6	0	0	6	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	0	16	16
04:30 PM	0	5	0	0	5	0	0	1	0	1	0	7	0	0	7	0	0	0	0	0	0	13	13
04:45 PM	0	13	0	0	13	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	24	24
Total	0	28	0	0	28	0	0	1	0	1	0	35	0	0	35	0	0	0	0	0	0	64	64
05:00 PM	0	4	0	0	4	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	8	8
05:15 PM	0	3	0	0	3	0	0	0	0	0	1	4	0	0	5	0	0	0	0	0	0	8	8
05:30 PM	0	6	0	0	6	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	12	12
05:45 PM	1	3	0	0	4	0	0	0	0	0	0	2	0	0	2	0	0	1	0	1	0	7	7
Total	1	16	0	0	17	0	0	0	0	0	1	16	0	0	17	0	0	1	0	1	0	35	35
06:00 PM	0	5	0	0	5	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	7	7
06:15 PM	0	7	0	0	7	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	13	13
06:30 PM	0	5	0	0	5	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	6	6
06:45 PM	0	5	0	0	5	0	0	0	0	0	0	6	0	0	6	0	0	0	0	0	0	11	11
Total	0	22	0	0	22	0	0	0	0	0	0	15	0	0	15	0	0	0	0	0	0	37	37
Grand Total	1	66	0	0	67	0	0	1	0	1	1	66	0	0	67	0	0	1	0	1	0	136	136
Apprch %	1.5	98.5	0			0	0	100			1.5	98.5	0			0	0	100					
Total %	0.7	48.5	0		49.3	0	0	0.7		0.7	0.7	48.5	0		49.3	0	0	0.7		0.7	0	100	

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	8
05:15 PM	0	3	0	3	0	0	0	0	**1**	4	0	5	0	0	0	0	8
05:30 PM	0	**6**	0	**6**	0	0	0	0	0	**6**	0	**6**	0	0	0	0	**12**
05:45 PM	**1**	3	0	4	0	0	0	0	0	2	0	2	0	0	**1**	**1**	7
Total Volume	1	16	0	17	0	0	0	0	1	16	0	17	0	0	1	1	35
% App. Total	5.9	94.1	0		0	0	0		5.9	94.1	0		0	0	100		
PHF	.250	.667	.000	.708	.000	.000	.000	.000	.250	.667	.000	.708	.000	.000	.250	.250	.729

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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
Start Date : 5/10/2022
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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
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File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	0	4	0	4	0	0	0	0	0	4	0	4	0	0	0	0	
+15 mins.	0	3	0	3	0	0	0	0	**1**	4	0	5	0	0	0	0	
+30 mins.	0	**6**	0	**6**	0	0	0	0	0	**6**	0	**6**	0	0	0	0	
+45 mins.	**1**	3	0	4	0	0	0	0	0	2	0	2	0	0	**1**	**1**	
Total Volume	1	16	0	17	0	0	0	0	1	16	0	17	0	0	1	1	
% App. Total	5.9	94.1	0		0	0	0		5.9	94.1	0		0	0	100		
PHF	.250	.667	.000	.708	.000	.000	.000	.000	.250	.667	.000	.708	.000	.000	.250	.250	

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City of Ontario
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File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

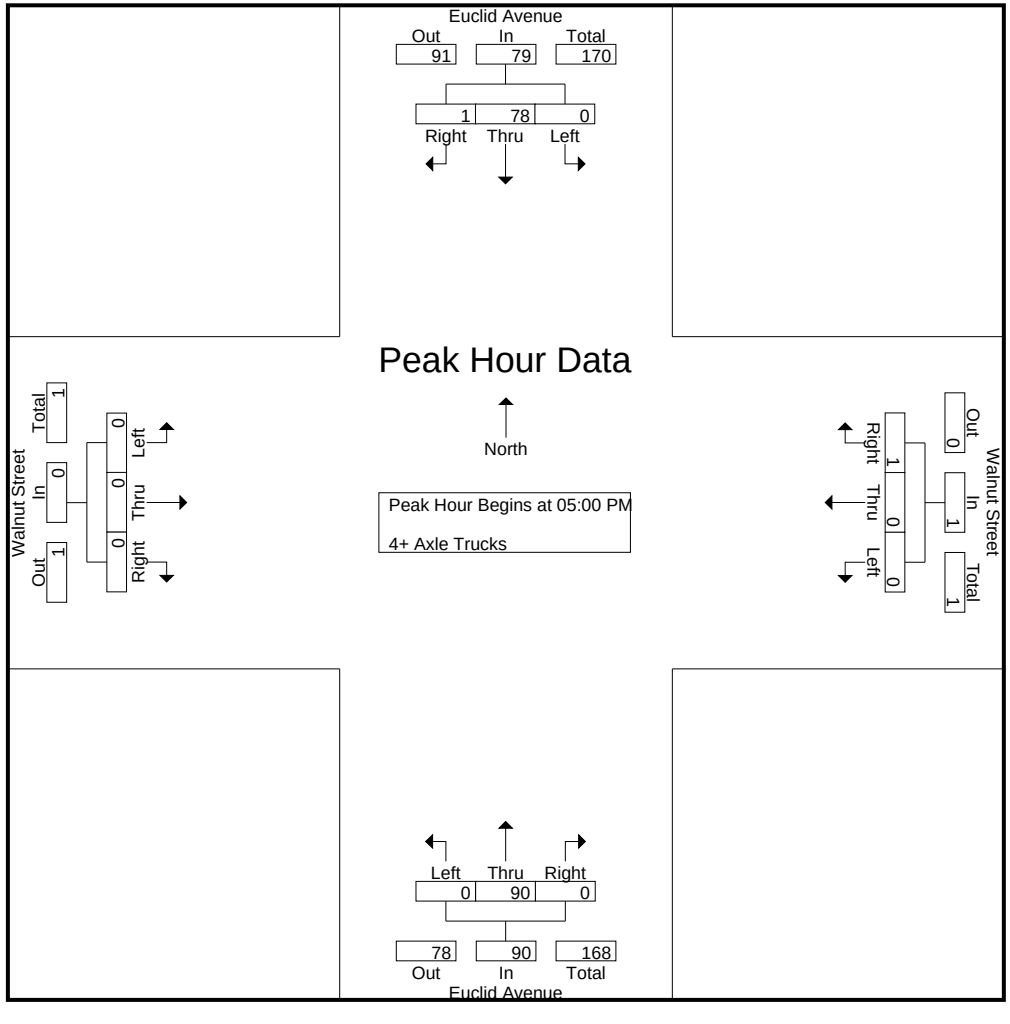
	Euclid Avenue Southbound					Walnut Street Westbound					Euclid Avenue Northbound					Walnut Street Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	29	0	0	29	0	0	0	0	0	0	19	0	0	19	0	0	0	0	0	0	48	48
04:15 PM	0	23	1	0	24	0	0	0	0	0	0	19	0	0	19	0	0	0	0	0	0	43	43
04:30 PM	0	28	0	0	28	0	0	0	0	0	0	21	0	0	21	0	0	1	1	1	1	50	51
04:45 PM	0	17	0	0	17	0	0	0	0	0	0	16	0	0	16	0	0	0	0	0	0	33	33
Total	0	97	1	0	98	0	0	0	0	0	0	75	0	0	75	0	0	1	1	1	1	174	175
05:00 PM	0	15	0	0	15	0	0	1	0	1	0	17	0	0	17	0	0	0	0	0	0	33	33
05:15 PM	0	18	0	0	18	0	0	0	0	0	0	28	0	0	28	0	0	0	0	0	0	46	46
05:30 PM	0	26	0	0	26	0	0	0	0	0	0	25	0	0	25	0	0	0	0	0	0	51	51
05:45 PM	0	19	1	0	20	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0	40	40
Total	0	78	1	0	79	0	0	1	0	1	0	90	0	0	90	0	0	0	0	0	0	170	170
06:00 PM	0	22	0	0	22	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	0	39	39
06:15 PM	0	22	0	0	22	0	0	0	0	0	1	19	0	0	20	0	0	0	0	0	0	42	42
06:30 PM	1	36	0	0	37	0	0	0	0	0	0	21	0	0	21	0	0	0	0	0	0	58	58
06:45 PM	0	25	0	0	25	0	0	0	0	0	0	24	0	0	24	0	0	0	0	0	0	49	49
Total	1	105	0	0	106	0	0	0	0	0	1	81	0	0	82	0	0	0	0	0	0	188	188
Grand Total	1	280	2	0	283	0	0	1	0	1	1	246	0	0	247	0	0	1	1	1	1	532	533
Apprch %	0.4	98.9	0.7			0	0	100			0.4	99.6	0			0	0	100					
Total %	0.2	52.6	0.4		53.2	0	0	0.2		0.2	0.2	46.2	0		46.4	0	0	0.2		0.2	0.2	99.8	

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	15	0	15	0	0	**1**	**1**	0	17	0	17	0	0	0	0	33
05:15 PM	0	18	0	18	0	0	0	0	0	**28**	0	**28**	0	0	0	0	46
05:30 PM	0	**26**	0	**26**	0	0	0	0	0	25	0	25	0	0	0	0	**51**
05:45 PM	0	19	**1**	20	0	0	0	0	0	20	0	20	0	0	0	0	40
Total Volume	0	78	1	79	0	0	1	1	0	90	0	90	0	0	0	0	170
% App. Total	0	98.7	1.3		0	0	100		0	100	0		0	0	0		
PHF	.000	.750	.250	.760	.000	.000	.250	.250	.000	.804	.000	.804	.000	.000	.000	.000	.833

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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
Weather: Clear

File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
Start Date : 5/10/2022
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City of Ontario
N/S: Euclid Avenue
E/W: Walnut Street
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File Name : 12_ONT_Eu_Wal PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Walnut Street Westbound				Euclid Avenue Northbound				Walnut Street Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	0	15	0	15	0	0	**1**	**1**	0	17	0	17	0	0	0	0	
+15 mins.	0	18	0	18	0	0	0	0	0	**28**	0	**28**	0	0	0	0	
+30 mins.	0	**26**	0	**26**	0	0	0	0	0	25	0	25	0	0	0	0	
+45 mins.	0	19	**1**	20	0	0	0	0	0	20	0	20	0	0	0	0	
Total Volume	0	78	1	79	0	0	1	1	0	90	0	90	0	0	0	0	
% App. Total	0	98.7	1.3		0	0	100		0	100	0		0	0	0		
PHF	.000	.750	.250	.760	.000	.000	.250	.250	.000	.804	.000	.804	.000	.000	.000	.000	

Location: Ontario
N/S: Euclid Avenue
E/W: Walnut Street

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg Euclid Avenue	East Leg Walnut Street	South Leg Euclid Avenue	West Leg Walnut Street	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
6:00 AM	0	1	1	0	2
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	0	0
6:45 AM	1	1	0	0	2
7:00 AM	1	1	0	0	2
7:15 AM	3	0	0	0	3
7:30 AM	0	0	0	0	0
7:45 AM	0	2	0	0	2
8:00 AM	0	0	0	0	0
8:15 AM	1	0	0	0	1
8:30 AM	0	0	0	0	0
8:45 AM	1	0	1	1	3
TOTAL VOLUMES:	7	5	2	1	15

	North Leg Euclid Avenue	East Leg Walnut Street	South Leg Euclid Avenue	West Leg Walnut Street	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	1	1
4:15 PM	0	1	0	1	2
4:30 PM	2	0	0	2	4
4:45 PM	1	0	0	0	1
5:00 PM	0	1	0	0	1
5:15 PM	0	0	1	0	1
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	1	1
6:00 PM	1	0	0	0	1
6:15 PM	1	0	0	0	1
6:30 PM	1	0	0	0	1
6:45 PM	1	0	1	1	3
TOTAL VOLUMES:	7	2	2	6	17

Location: Ontario
N/S: Euclid Avenue
E/W: Walnut Street

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound Euclid Avenue			Westbound Walnut Street			Northbound Euclid Avenue			Eastbound Walnut Street			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
6:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	1	0	0	0	1	0	2
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	2	0	0	0	0	1	0	0	0	2	1	6

	Southbound Euclid Avenue			Westbound Walnut Street			Northbound Euclid Avenue			Eastbound Walnut Street			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
4:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	1	0	0	0	0	0	1	0	2
5:30 PM	0	1	0	0	1	0	0	0	0	0	0	0	2
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
6:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	1	1	0	0	0	0	14	0	16
TOTAL VOLUMES:	0	3	0	0	4	1	0	1	0	1	15	0	25

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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	50	182	14	8	246	31	25	10	5	66	2	78	14	4	94	13	20	7	4	40	21	446	467
06:15 AM	31	178	10	5	219	30	62	6	2	98	4	95	14	9	113	17	24	6	3	47	19	477	496
06:30 AM	22	229	31	22	282	41	62	13	7	116	6	119	9	7	134	23	18	10	4	51	40	583	623
06:45 AM	27	192	32	21	251	39	135	16	8	190	8	124	18	14	150	24	38	11	10	73	53	664	717
Total	130	781	87	56	998	141	284	45	22	470	20	416	55	34	491	77	100	34	21	211	133	2170	2303
07:00 AM	27	133	18	8	178	36	142	14	7	192	2	122	11	4	135	44	57	9	4	110	23	615	638
07:15 AM	27	162	21	10	210	29	115	33	14	177	3	164	23	16	190	31	87	13	8	131	48	708	756
07:30 AM	39	155	23	9	217	26	108	15	8	149	12	153	20	14	185	29	78	7	3	114	34	665	699
07:45 AM	38	161	22	10	221	52	123	24	13	199	8	142	16	9	166	40	100	10	7	150	39	736	775
Total	131	611	84	37	826	143	488	86	42	717	25	581	70	43	676	144	322	39	22	505	144	2724	2868
08:00 AM	37	181	33	14	251	44	130	21	11	195	7	128	18	14	153	43	74	11	8	128	47	727	774
08:15 AM	70	176	34	19	280	51	99	23	13	173	11	138	22	10	171	28	76	13	7	117	49	741	790
08:30 AM	71	162	22	11	255	43	99	20	14	162	5	127	21	8	153	40	69	9	4	118	37	688	725
08:45 AM	58	145	34	15	237	33	97	16	7	146	14	138	21	8	173	31	46	17	5	94	35	650	685
Total	236	664	123	59	1023	171	425	80	45	676	37	531	82	40	650	142	265	50	24	457	168	2806	2974
Grand Total	497	2056	294	152	2847	455	1197	211	109	1863	82	1528	207	117	1817	363	687	123	67	1173	445	7700	8145
Apprch %	17.5	72.2	10.3			24.4	64.3	11.3			4.5	84.1	11.4			30.9	58.6	10.5					
Total %	6.5	26.7	3.8		37	5.9	15.5	2.7		24.2	1.1	19.8	2.7		23.6	4.7	8.9	1.6		15.2	5.5	94.5	
Passenger Vehicles	471	1570	272		2459	437	1179	187		1904	67	913	198		1293	329	663	105		1156	0	0	6812
% Passenger Vehicles	94.8	76.4	92.5	96.1	82	96	98.5	88.6	92.7	96.6	81.7	59.8	95.7	98.3	66.9	90.6	96.5	85.4	88.1	93.2	0	0	83.6
Large 2 Axle Vehicles	17	76	12		108	14	16	6		39	11	118	8		139	22	23	11		62	0	0	348
% Large 2 Axle Vehicles	3.4	3.7	4.1	2	3.6	3.1	1.3	2.8	2.8	2	13.4	7.7	3.9	1.7	7.2	6.1	3.3	8.9	9	5	0	0	4.3
3 Axle Vehicles	3	92	2		99	0	0	4		5	3	95	0		98	1	1	2		4	0	0	206
% 3 Axle Vehicles	0.6	4.5	0.7	1.3	3.3	0	0	1.9	0.9	0.3	3.7	6.2	0	0	5.1	0.3	0.1	1.6	0	0.3	0	0	2.5
4+ Axle Trucks	6	318	8		333	4	2	14		24	1	402	1		404	11	0	5		18	0	0	779
% 4+ Axle Trucks	1.2	15.5	2.7	0.7	11.1	0.9	0.2	6.6	3.7	1.2	1.2	26.3	0.5	0	20.9	3	0	4.1	3	1.5	0	0	9.6

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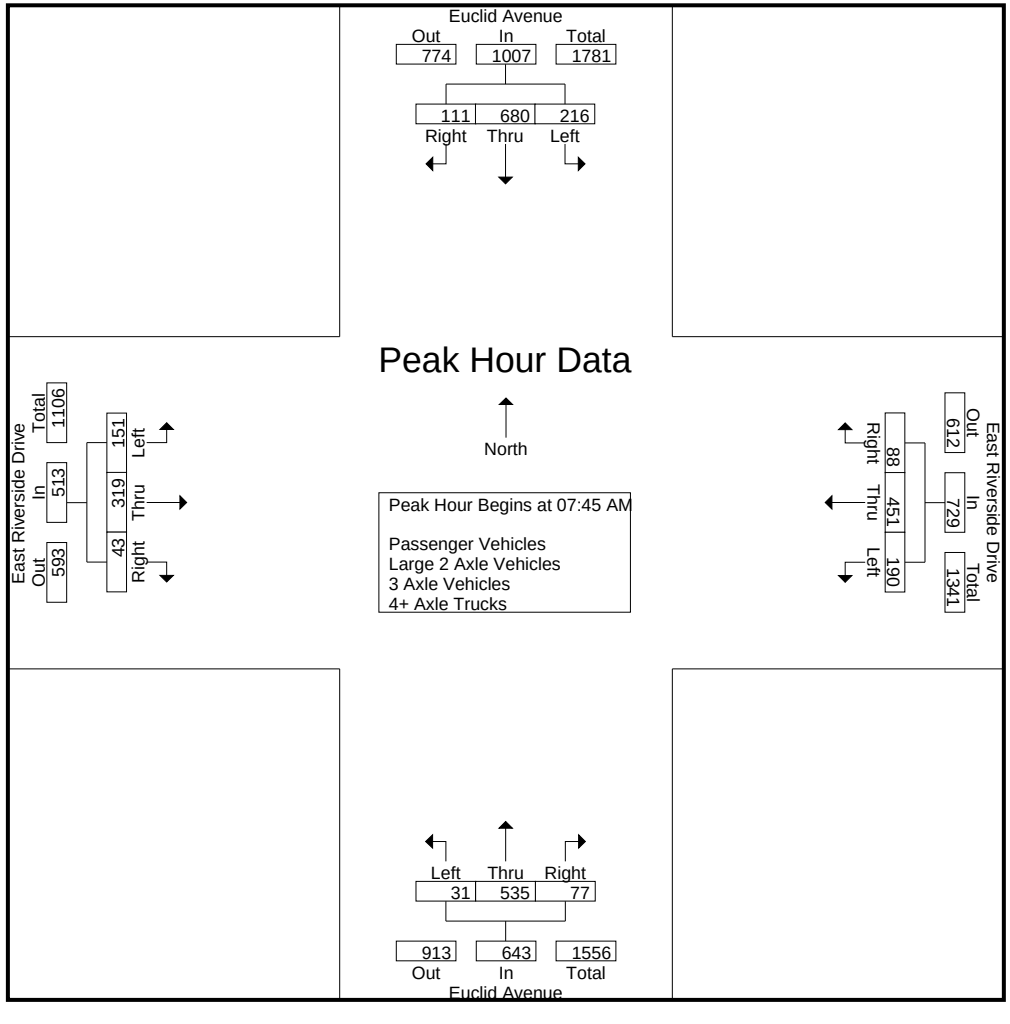
File Name : 13_CHN_Eu_Riv AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	38	161	22	221	**52**	123	**24**	**199**	8	**142**	16	166	40	**100**	10	**150**	736
08:00 AM	37	**181**	33	251	44	**130**	21	195	7	128	18	153	**43**	74	11	128	727
08:15 AM	70	176	**34**	**280**	51	99	23	173	**11**	138	**22**	**171**	28	76	**13**	117	**741**
08:30 AM	**71**	162	22	255	43	99	20	162	5	127	21	153	40	69	9	118	688
Total Volume	216	680	111	1007	190	451	88	729	31	535	77	643	151	319	43	513	2892
% App. Total	21.4	67.5	11		26.1	61.9	12.1		4.8	83.2	12		29.4	62.2	8.4		
PHF	.761	.939	.816	.899	.913	.867	.917	.916	.705	.942	.875	.940	.878	.798	.827	.855	.976

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File Name : 13_CHN_Eu_Riv AM
Site Code : 05122422
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City of Chino
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E/W: East Riverside Drive
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File Name : 13_CHN_Eu_Riv AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	08:00 AM				07:45 AM				07:15 AM				07:15 AM				
+0 mins.	37	**181**	33	251	**52**	123	**24**	**199**	3	**164**	**23**	**190**	31	87	**13**	131	
+15 mins.	70	176	**34**	**280**	44	**130**	21	195	**12**	153	20	185	29	78	7	114	
+30 mins.	**71**	162	22	255	51	99	23	173	8	142	16	166	40	**100**	10	**150**	
+45 mins.	58	145	34	237	43	99	20	162	7	128	18	153	**43**	74	11	128	
Total Volume	236	664	123	1023	190	451	88	729	30	587	77	694	143	339	41	523	
% App. Total	23.1	64.9	12		26.1	61.9	12.1		4.3	84.6	11.1		27.3	64.8	7.8		
PHF	.831	.917	.904	.913	.913	.867	.917	.916	.625	.895	.837	.913	.831	.848	.788	.872	

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File Name : 13_CHN_Eu_Riv AM
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Groups Printed- Passenger Vehicles

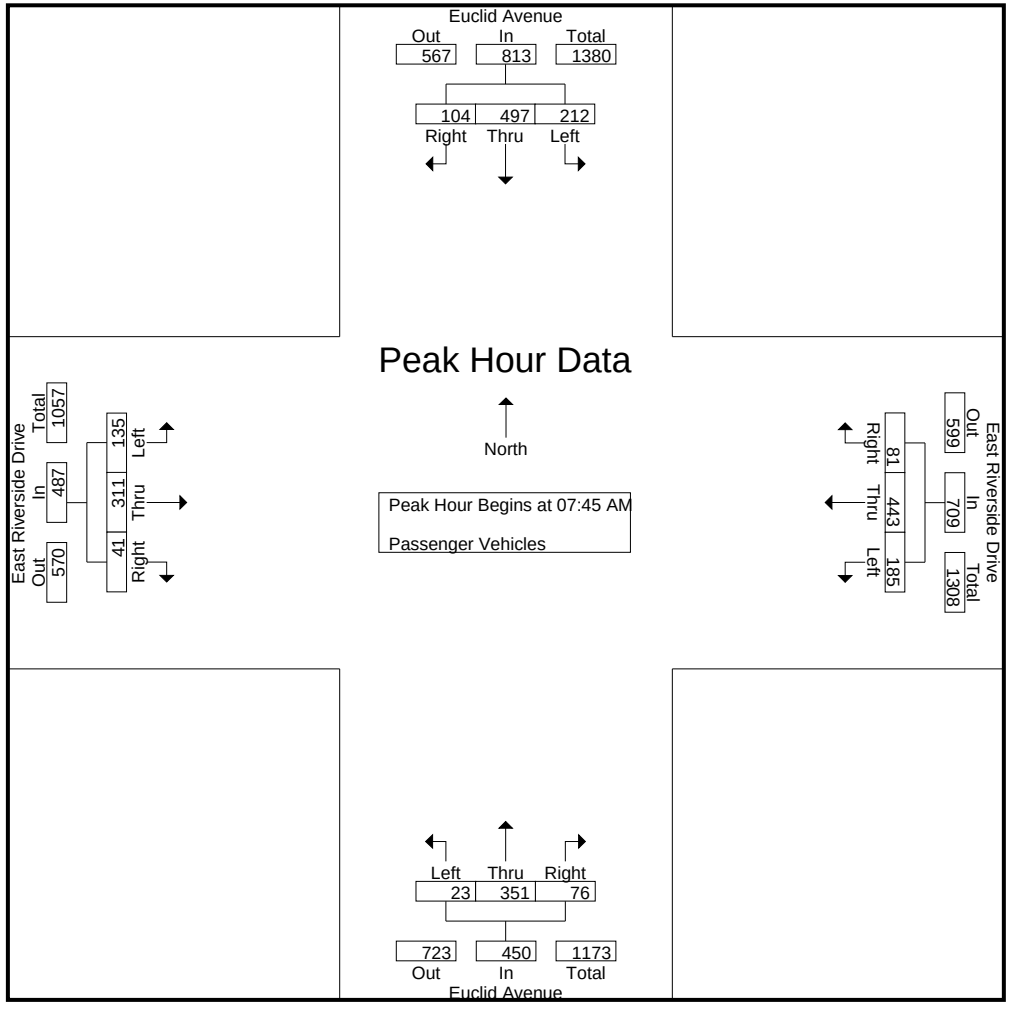
	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	49	141	12	8	202	31	24	8	4	63	2	43	14	4	59	13	19	5	3	37	19	361	380
06:15 AM	28	146	9	4	183	29	62	5	2	96	3	53	13	9	69	12	22	5	2	39	17	387	404
06:30 AM	20	201	29	21	250	38	62	9	4	109	6	59	8	7	73	20	17	10	4	47	36	479	515
06:45 AM	22	146	31	21	199	36	130	14	8	180	7	68	18	14	93	22	33	7	7	62	50	534	584
Total	119	634	81	54	834	134	278	36	18	448	18	223	53	34	294	67	91	27	16	185	122	1761	1883
07:00 AM	23	103	17	8	143	34	141	11	6	186	2	69	10	4	81	43	55	7	4	105	22	515	537
07:15 AM	23	118	20	10	161	27	113	29	12	169	3	103	22	16	128	31	84	9	7	124	45	582	627
07:30 AM	38	117	21	9	176	25	108	15	8	148	8	92	18	13	118	25	77	6	3	108	33	550	583
07:45 AM	36	122	22	10	180	51	120	21	12	192	6	101	16	9	123	35	99	10	7	144	38	639	677
Total	120	460	80	37	660	137	482	76	38	695	19	365	66	42	450	134	315	32	21	481	138	2286	2424
08:00 AM	37	126	31	13	194	43	128	17	11	188	7	84	18	14	109	38	71	10	8	119	46	610	656
08:15 AM	68	127	31	19	226	51	98	23	13	172	7	78	21	9	106	23	73	12	6	108	47	612	659
08:30 AM	71	122	20	11	213	40	97	20	14	157	3	88	21	8	112	39	68	9	4	116	37	598	635
08:45 AM	56	101	29	12	186	32	96	15	7	143	13	75	19	8	107	28	45	15	4	88	31	524	555
Total	232	476	111	55	819	166	419	75	45	660	30	325	79	39	434	128	257	46	22	431	161	2344	2505
Grand Total	471	1570	272	146	2313	437	1179	187	101	1803	67	913	198	115	1178	329	663	105	59	1097	421	6391	6812
Apprch %	20.4	67.9	11.8			24.2	65.4	10.4			5.7	77.5	16.8			30	60.4	9.6					
Total %	7.4	24.6	4.3		36.2	6.8	18.4	2.9		28.2	1	14.3	3.1		18.4	5.1	10.4	1.6		17.2	6.2	93.8	

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	36	122	22	180	**51**	120	21	**192**	6	**101**	16	**123**	35	**99**	10	**144**	**639**
08:00 AM	37	126	**31**	194	43	**128**	17	188	**7**	84	18	109	38	71	10	119	610
08:15 AM	68	**127**	31	**226**	51	98	**23**	172	7	78	**21**	106	23	73	**12**	108	612
08:30 AM	**71**	122	20	213	40	97	20	157	3	88	21	112	**39**	68	9	116	598
Total Volume	212	497	104	813	185	443	81	709	23	351	76	450	135	311	41	487	2459
% App. Total	26.1	61.1	12.8		26.1	62.5	11.4		5.1	78	16.9		27.7	63.9	8.4		
PHF	.746	.978	.839	.899	.907	.865	.880	.923	.821	.869	.905	.915	.865	.785	.854	.845	.962

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File Name : 13_CHN_Eu_Riv AM
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	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:45 AM				07:45 AM				07:45 AM				
+0 mins.	36	122	22	180	**51**	120	21	**192**	6	**101**	16	**123**	35	**99**	10	**144**	
+15 mins.	37	126	**31**	194	43	**128**	17	188	**7**	84	18	109	38	71	10	119	
+30 mins.	68	**127**	31	**226**	51	98	**23**	172	7	78	**21**	106	23	73	**12**	108	
+45 mins.	**71**	122	20	213	40	97	20	157	3	88	21	112	**39**	68	9	116	
Total Volume	212	497	104	813	185	443	81	709	23	351	76	450	135	311	41	487	
% App. Total	26.1	61.1	12.8		26.1	62.5	11.4		5.1	78	16.9		27.7	63.9	8.4		
PHF	.746	.978	.839	.899	.907	.865	.880	.923	.821	.869	.905	.915	.865	.785	.854	.845	

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File Name : 13_CHN_Eu_Riv AM
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Page No : 1

Groups Printed- Large 2 Axle Vehicles

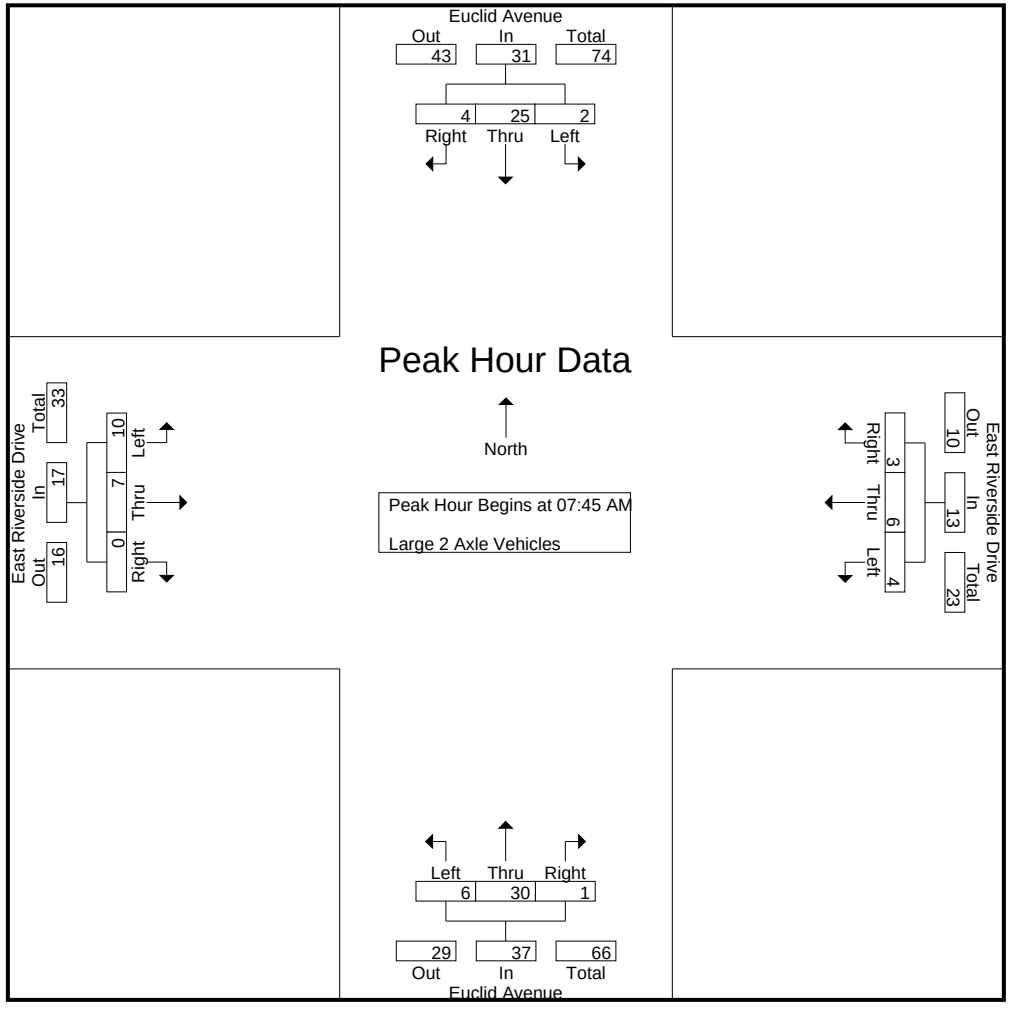
	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	1	3	1	0	5	0	1	0	0	1	0	3	0	0	3	0	1	1	0	2	0	11	11
06:15 AM	2	6	0	0	8	1	0	0	0	1	1	10	1	0	12	5	2	1	1	8	1	29	30
06:30 AM	1	5	2	1	8	2	0	1	1	3	0	13	0	0	13	2	1	0	0	3	2	27	29
06:45 AM	3	9	1	0	13	2	5	0	0	7	0	10	0	0	10	2	5	4	3	11	3	41	44
Total	7	23	4	1	34	5	6	1	1	12	1	36	1	0	38	9	9	6	4	24	6	108	114
07:00 AM	3	4	0	0	7	1	1	0	0	2	0	18	1	0	19	1	2	0	0	3	0	31	31
07:15 AM	3	5	1	0	9	2	2	1	1	5	0	11	1	0	12	0	3	3	1	6	2	32	34
07:30 AM	1	9	1	0	11	1	0	0	0	1	4	10	2	1	16	1	1	0	0	2	1	30	31
07:45 AM	1	3	0	0	4	1	2	1	1	4	2	6	0	0	8	4	1	0	0	5	1	21	22
Total	8	21	2	0	31	5	5	2	2	12	6	45	4	1	55	6	7	3	1	16	4	114	118
08:00 AM	0	6	1	1	7	1	2	2	0	5	0	9	0	0	9	2	2	0	0	4	1	25	26
08:15 AM	1	5	1	0	7	0	1	0	0	1	2	9	1	1	12	3	3	0	0	6	1	26	27
08:30 AM	0	11	2	0	13	2	1	0	0	3	2	6	0	0	8	1	1	0	0	2	0	26	26
08:45 AM	1	10	2	1	13	1	1	1	0	3	0	13	2	0	15	1	1	2	1	4	2	35	37
Total	2	32	6	2	40	4	5	3	0	12	4	37	3	1	44	7	7	2	1	16	4	112	116
Grand Total	17	76	12	3	105	14	16	6	3	36	11	118	8	2	137	22	23	11	6	56	14	334	348
Apprch %	16.2	72.4	11.4			38.9	44.4	16.7			8	86.1	5.8			39.3	41.1	19.6					
Total %	5.1	22.8	3.6		31.4	4.2	4.8	1.8		10.8	3.3	35.3	2.4		41	6.6	6.9	3.3		16.8	4	96	

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	**1**	3	0	4	1	**2**	1	4	**2**	6	0	8	**4**	1	0	5	21
08:00 AM	0	6	1	7	1	2	**2**	**5**	0	**9**	0	9	2	2	0	4	25
08:15 AM	1	5	1	7	0	1	0	1	2	9	**1**	**12**	3	**3**	0	**6**	**26**
08:30 AM	0	**11**	**2**	**13**	**2**	1	0	3	2	6	0	8	1	1	0	2	26
Total Volume	2	25	4	31	4	6	3	13	6	30	1	37	10	7	0	17	98
% App. Total	6.5	80.6	12.9		30.8	46.2	23.1		16.2	81.1	2.7		58.8	41.2	0		
PHF	.500	.568	.500	.596	.500	.750	.375	.650	.750	.833	.250	.771	.625	.583	.000	.708	.942

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	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:45 AM				07:45 AM				07:45 AM				
+0 mins.	**1**	3	0	4	1	**2**	1	4	**2**	6	0	8	**4**	1	0	5	
+15 mins.	0	6	1	7	1	2	**2**	**5**	0	**9**	0	9	2	2	0	4	
+30 mins.	1	5	1	7	0	1	0	1	2	9	**1**	**12**	3	**3**	0	**6**	
+45 mins.	0	**11**	**2**	**13**	**2**	1	0	3	2	6	0	8	1	1	0	2	
Total Volume	2	25	4	31	4	6	3	13	6	30	1	37	10	7	0	17	
% App. Total	6.5	80.6	12.9		30.8	46.2	23.1		16.2	81.1	2.7		58.8	41.2	0		
PHF	.500	.568	.500	.596	.500	.750	.375	.650	.750	.833	.250	.771	.625	.583	.000	.708	

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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv AM
Site Code : 05122422
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Groups Printed- 3 Axle Vehicles

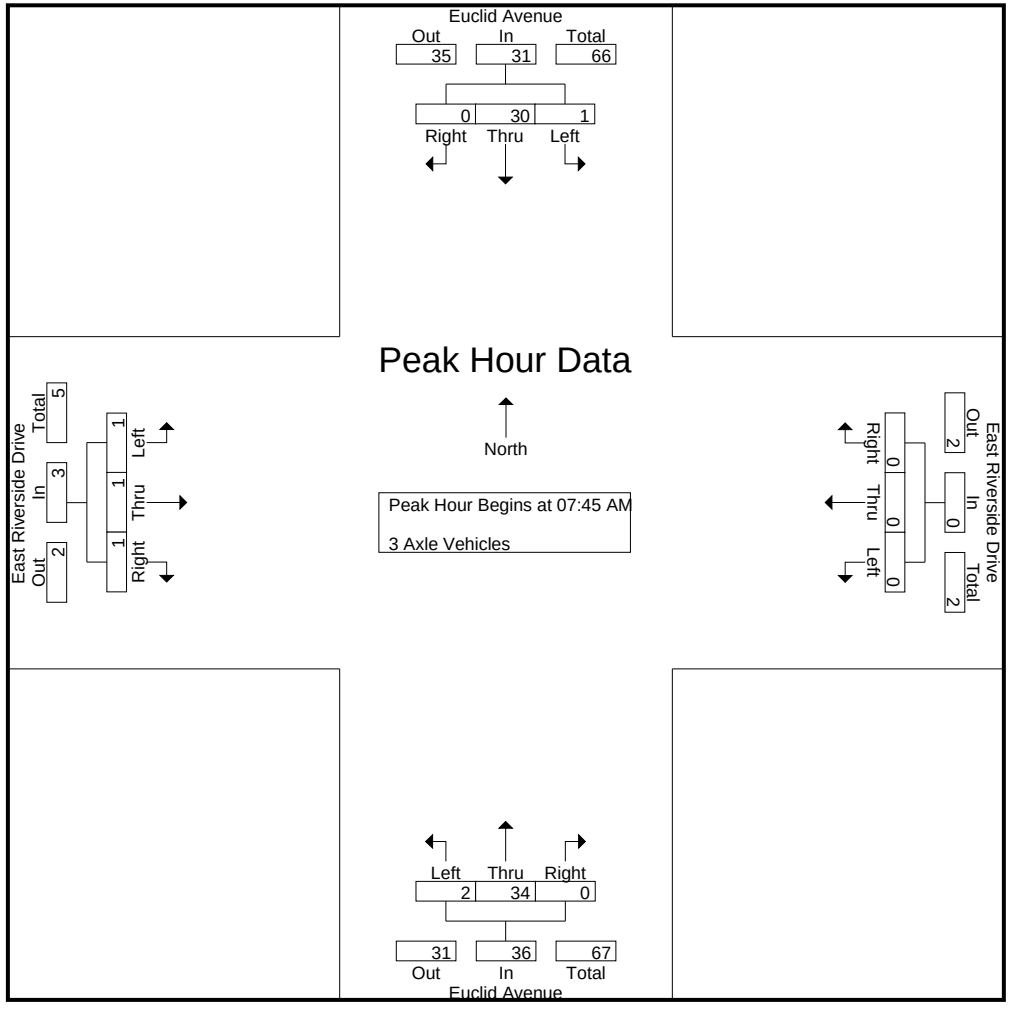
	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	9	0	0	9	0	0	1	0	1	0	6	0	0	6	0	0	0	0	0	0	16	16
06:15 AM	0	9	1	1	10	0	0	1	0	1	0	8	0	0	8	0	0	0	0	0	1	19	20
06:30 AM	0	7	0	0	7	0	0	1	1	1	0	11	0	0	11	0	0	0	0	0	1	19	20
06:45 AM	1	9	0	0	10	0	0	1	0	1	1	8	0	0	9	0	0	0	0	0	0	20	20
Total	1	34	1	1	36	0	0	4	1	4	1	33	0	0	34	0	0	0	0	0	2	74	76
07:00 AM	0	7	0	0	7	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	11	11
07:15 AM	1	3	0	0	4	0	0	0	0	0	0	10	0	0	10	0	0	1	0	1	0	15	15
07:30 AM	0	7	0	0	7	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	11	11
07:45 AM	1	5	0	0	6	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	14	14
Total	2	22	0	0	24	0	0	0	0	0	0	26	0	0	26	0	0	1	0	1	0	51	51
08:00 AM	0	9	0	0	9	0	0	0	0	0	0	4	0	0	4	0	1	1	0	2	0	15	15
08:15 AM	0	11	0	0	11	0	0	0	0	0	2	11	0	0	13	1	0	0	0	1	0	25	25
08:30 AM	0	5	0	0	5	0	0	0	0	0	0	11	0	0	11	0	0	0	0	0	0	16	16
08:45 AM	0	11	1	1	12	0	0	0	0	0	0	10	0	0	10	0	0	0	0	0	1	22	23
Total	0	36	1	1	37	0	0	0	0	0	2	36	0	0	38	1	1	1	0	3	1	78	79
Grand Total	3	92	2	2	97	0	0	4	1	4	3	95	0	0	98	1	1	2	0	4	3	203	206
Apprch %	3.1	94.8	2.1			0	0	100			3.1	96.9	0			25	25	50					
Total %	1.5	45.3	1		47.8	0	0	2		2	1.5	46.8	0		48.3	0.5	0.5	1		2	1.5	98.5	

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	**1**	5	0	6	0	0	0	0	0	8	0	8	0	0	0	0	14
08:00 AM	0	9	0	9	0	0	0	0	0	4	0	4	0	**1**	**1**	**2**	15
08:15 AM	0	**11**	0	**11**	0	0	0	0	**2**	**11**	0	**13**	**1**	0	0	1	**25**
08:30 AM	0	5	0	5	0	0	0	0	0	11	0	11	0	0	0	0	16
Total Volume	1	30	0	31	0	0	0	0	2	34	0	36	1	1	1	3	70
% App. Total	3.2	96.8	0		0	0	0		5.6	94.4	0		33.3	33.3	33.3		
PHF	.250	.682	.000	.705	.000	.000	.000	.000	.250	.773	.000	.692	.250	.250	.250	.375	.700

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City of Chino
N/S: Euclid Avenue
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Weather: Clear

File Name : 13_CHN_Eu_Riv AM
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	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:45 AM				07:45 AM				07:45 AM				
+0 mins.	**1**	5	0	6	0	0	0	0	0	8	0	8	0	0	0	0	
+15 mins.	0	9	0	9	0	0	0	0	0	4	0	4	0	**1**	**1**	**2**	
+30 mins.	0	**11**	0	**11**	0	0	0	0	**2**	**11**	0	**13**	**1**	0	0	1	
+45 mins.	0	5	0	5	0	0	0	0	0	11	0	11	0	0	0	0	
Total Volume	1	30	0	31	0	0	0	0	2	34	0	36	1	1	1	3	
% App. Total	3.2	96.8	0		0	0	0		5.6	94.4	0		33.3	33.3	33.3		
PHF	.250	.682	.000	.705	.000	.000	.000	.000	.250	.773	.000	.692	.250	.250	.250	.375	

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Site Code : 05122422
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Groups Printed- 4+ Axle Trucks

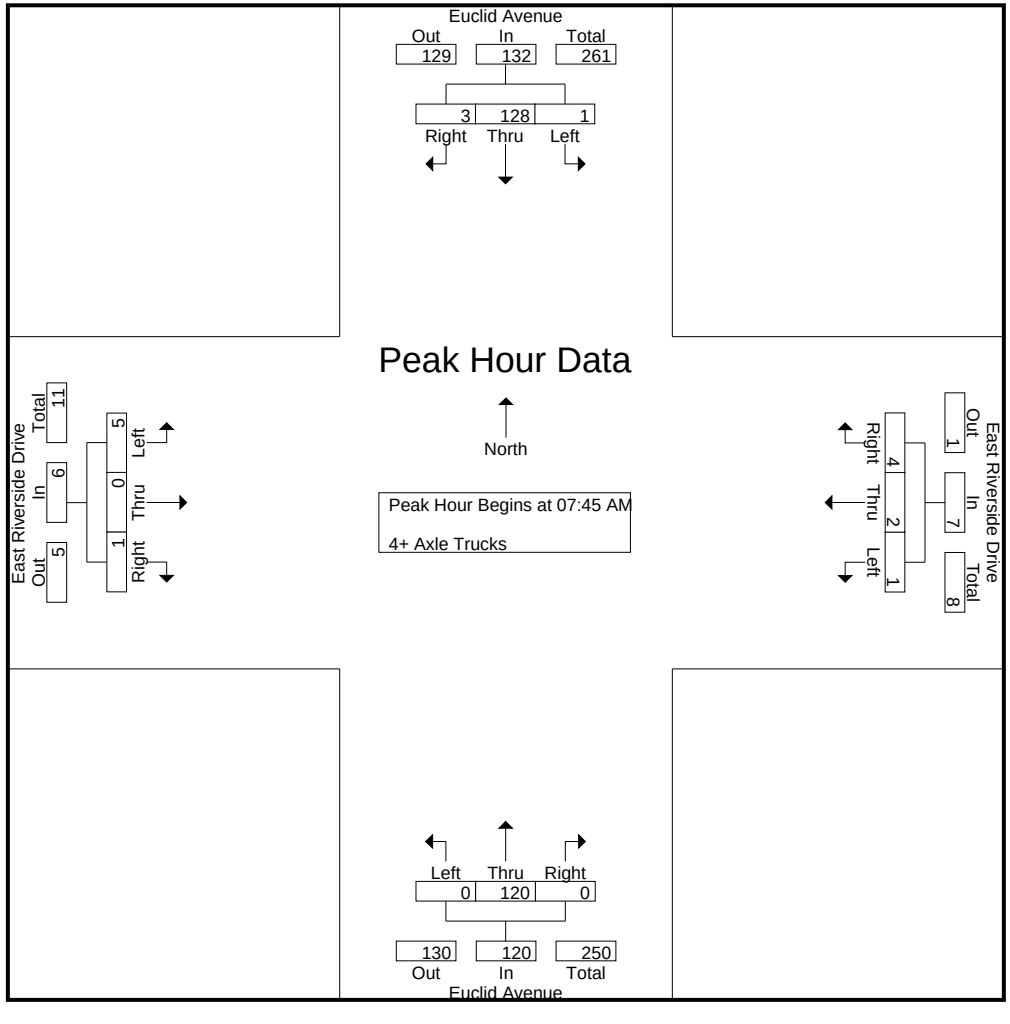
	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	29	1	0	30	0	0	1	1	1	0	26	0	0	26	0	0	1	1	1	2	58	60
06:15 AM	1	17	0	0	18	0	0	0	0	0	0	24	0	0	24	0	0	0	0	0	0	42	42
06:30 AM	1	16	0	0	17	1	0	2	1	3	0	36	1	0	37	1	0	0	0	1	1	58	59
06:45 AM	1	28	0	0	29	1	0	1	0	2	0	38	0	0	38	0	0	0	0	0	0	69	69
Total	3	90	1	0	94	2	0	4	2	6	0	124	1	0	125	1	0	1	1	2	3	227	230
07:00 AM	1	19	1	0	21	1	0	3	1	4	0	31	0	0	31	0	0	2	0	2	1	58	59
07:15 AM	0	36	0	0	36	0	0	3	1	3	0	40	0	0	40	0	0	0	0	0	1	79	80
07:30 AM	0	22	1	0	23	0	0	0	0	0	0	47	0	0	47	3	0	1	0	4	0	74	74
07:45 AM	0	31	0	0	31	0	1	2	0	3	0	27	0	0	27	1	0	0	0	1	0	62	62
Total	1	108	2	0	111	1	1	8	2	10	0	145	0	0	145	4	0	3	0	7	2	273	275
08:00 AM	0	40	1	0	41	0	0	2	0	2	0	31	0	0	31	3	0	0	0	3	0	77	77
08:15 AM	1	33	2	0	36	0	0	0	0	0	0	40	0	0	40	1	0	1	1	2	1	78	79
08:30 AM	0	24	0	0	24	1	1	0	0	2	0	22	0	0	22	0	0	0	0	0	0	48	48
08:45 AM	1	23	2	1	26	0	0	0	0	0	1	40	0	0	41	2	0	0	0	2	1	69	70
Total	2	120	5	1	127	1	1	2	0	4	1	133	0	0	134	6	0	1	1	7	2	272	274
Grand Total	6	318	8	1	332	4	2	14	4	20	1	402	1	0	404	11	0	5	2	16	7	772	779
Apprch %	1.8	95.8	2.4			20	10	70			0.2	99.5	0.2			68.8	0	31.2					
Total %	0.8	41.2	1		43	0.5	0.3	1.8		2.6	0.1	52.1	0.1		52.3	1.4	0	0.6		2.1	0.9	99.1	

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:45 AM																	
07:45 AM	0	31	0	31	0	**1**	**2**	**3**	0	27	0	27	1	0	0	1	62
08:00 AM	0	**40**	1	**41**	0	0	2	2	0	31	0	31	**3**	0	0	**3**	77
08:15 AM	**1**	33	**2**	36	0	0	0	0	0	**40**	0	**40**	1	0	**1**	2	**78**
08:30 AM	0	24	0	24	**1**	1	0	2	0	22	0	22	0	0	0	0	48
Total Volume	1	128	3	132	1	2	4	7	0	120	0	120	5	0	1	6	265
% App. Total	0.8	97	2.3		14.3	28.6	57.1		0	100	0		83.3	0	16.7		
PHF	.250	.800	.375	.805	.250	.500	.500	.583	.000	.750	.000	.750	.417	.000	.250	.500	.849

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Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:45 AM to 08:30 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:45 AM				07:45 AM				07:45 AM				
+0 mins.	0	31	0	31	0	**1**	**2**	**3**	0	27	0	27	1	0	0	1	
+15 mins.	0	**40**	1	**41**	0	0	2	2	0	31	0	31	**3**	0	0	**3**	
+30 mins.	**1**	33	**2**	36	0	0	0	0	0	**40**	0	**40**	1	0	**1**	2	
+45 mins.	0	24	0	24	**1**	1	0	2	0	22	0	22	0	0	0	0	
Total Volume	1	128	3	132	1	2	4	7	0	120	0	120	5	0	1	6	
% App. Total	0.8	97	2.3		14.3	28.6	57.1		0	100	0		83.3	0	16.7		
PHF	.250	.800	.375	.805	.250	.500	.500	.583	.000	.750	.000	.750	.417	.000	.250	.500	

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File Name : 13_CHN_Eu_Riv PM
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	26	136	32	20	194	39	69	13	8	121	14	127	24	15	165	40	117	12	5	169	48	649	697
04:15 PM	29	125	39	17	193	38	88	16	4	142	11	156	24	7	191	37	117	17	4	171	32	697	729
04:30 PM	29	168	39	25	236	39	79	17	5	135	15	168	33	16	216	35	104	10	3	149	49	736	785
04:45 PM	24	177	35	21	236	33	86	18	13	137	12	157	40	21	209	36	114	10	6	160	61	742	803
Total	108	606	145	83	859	149	322	64	30	535	52	608	121	59	781	148	452	49	18	649	190	2824	3014
05:00 PM	23	135	40	27	198	20	108	22	13	150	10	173	40	13	223	26	111	11	6	148	59	719	778
05:15 PM	29	145	29	18	203	40	85	15	7	140	11	181	33	14	225	32	111	16	12	159	51	727	778
05:30 PM	23	156	47	32	226	37	90	11	6	138	6	169	32	14	207	32	127	9	7	168	59	739	798
05:45 PM	31	192	33	17	256	20	80	19	10	119	8	153	32	13	193	32	110	9	8	151	48	719	767
Total	106	628	149	94	883	117	363	67	36	547	35	676	137	54	848	122	459	45	33	626	217	2904	3121
06:00 PM	25	104	28	10	157	34	84	22	15	140	6	164	29	17	199	30	97	13	9	140	51	636	687
06:15 PM	30	133	31	21	194	22	63	16	10	101	5	105	34	26	144	38	87	7	4	132	61	571	632
06:30 PM	21	131	39	19	191	26	70	14	7	110	11	142	27	12	180	27	63	9	6	99	44	580	624
06:45 PM	24	124	27	16	175	25	56	14	5	95	11	113	34	17	158	21	63	4	2	88	40	516	556
Total	100	492	125	66	717	107	273	66	37	446	33	524	124	72	681	116	310	33	21	459	196	2303	2499
Grand Total	314	1726	419	243	2459	373	958	197	103	1528	120	1808	382	185	2310	386	1221	127	72	1734	603	8031	8634
Apprch %	12.8	70.2	17			24.4	62.7	12.9			5.2	78.3	16.5			22.3	70.4	7.3					
Total %	3.9	21.5	5.2		30.6	4.6	11.9	2.5		19	1.5	22.5	4.8		28.8	4.8	15.2	1.6		21.6	7	93	
Passenger Vehicles	305	1323	412		2280	368	955	196		1622	115	1438	379		2117	368	1206	115		1757	0	0	7776
% Passenger Vehicles	97.1	76.7	98.3	98.8	84.4	98.7	99.7	99.5	100	99.4	95.8	79.5	99.2	100	84.8	95.3	98.8	90.6	94.4	97.3	0	0	90.1
Large 2 Axle Vehicles	1	77	2		81	5	3	0		8	4	55	2		61	10	12	6		31	0	0	181
% Large 2 Axle Vehicles	0.3	4.5	0.5	0.4	3	1.3	0.3	0	0	0.5	3.3	3	0.5	0	2.4	2.6	1	4.7	4.2	1.7	0	0	2.1
3 Axle Vehicles	2	60	1		63	0	0	0		0	1	69	0		70	2	1	3		6	0	0	139
% 3 Axle Vehicles	0.6	3.5	0.2	0	2.3	0	0	0	0	0	0.8	3.8	0	0	2.8	0.5	0.1	2.4	0	0.3	0	0	1.6
4+ Axle Trucks	6	266	4		278	0	0	1		1	0	246	1		247	6	2	3		12	0	0	538
% 4+ Axle Trucks	1.9	15.4	1	0.8	10.3	0	0	0.5	0	0.1	0	13.6	0.3	0	9.9	1.6	0.2	2.4	1.4	0.7	0	0	6.2

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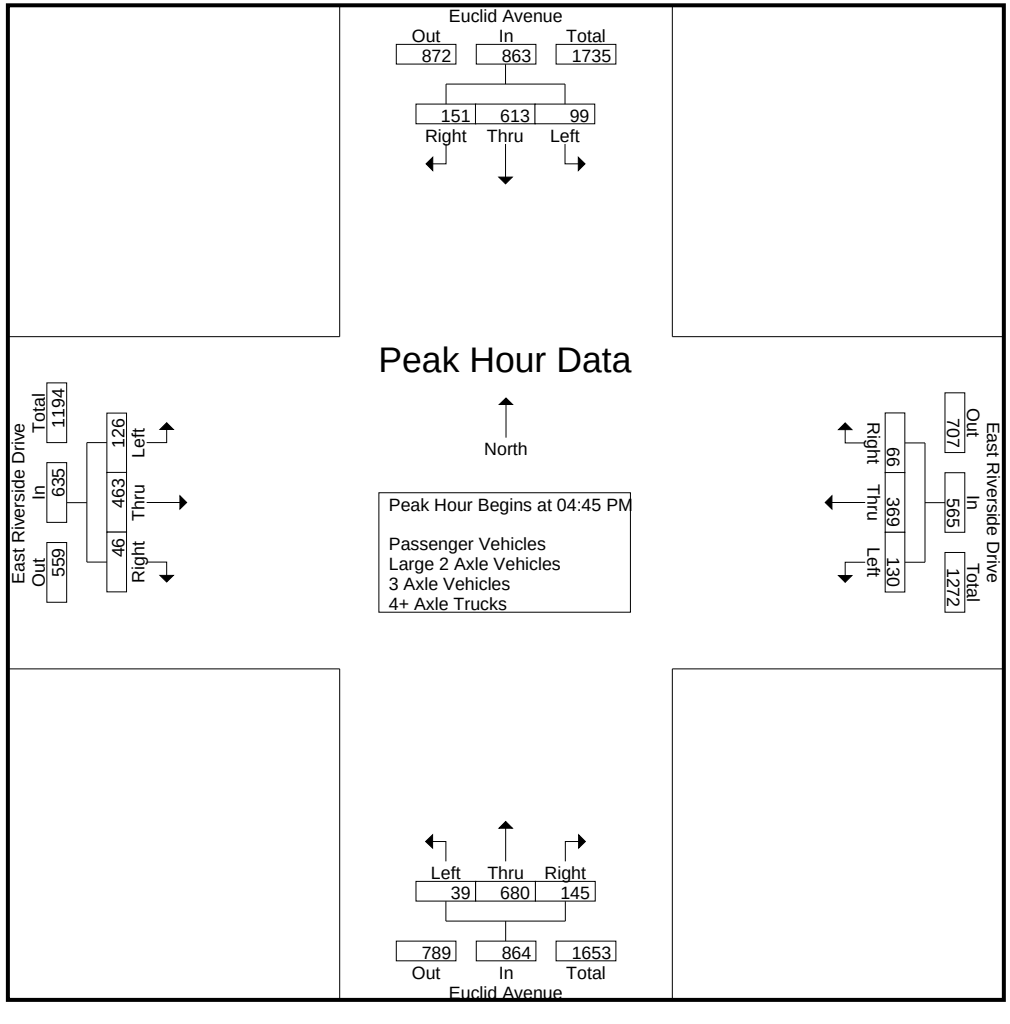
File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	24	**177**	35	**236**	33	86	18	137	**12**	157	**40**	209	**36**	114	10	160	**742**
05:00 PM	23	135	40	198	20	**108**	**22**	**150**	10	173	40	223	26	111	11	148	719
05:15 PM	**29**	145	29	203	**40**	85	15	140	11	**181**	33	**225**	32	111	**16**	159	727
05:30 PM	23	156	**47**	226	37	90	11	138	6	169	32	207	32	**127**	9	**168**	739
Total Volume	99	613	151	863	130	369	66	565	39	680	145	864	126	463	46	635	2927
% App. Total	11.5	71	17.5		23	65.3	11.7		4.5	78.7	16.8		19.8	72.9	7.2		
PHF	.853	.866	.803	.914	.813	.854	.750	.942	.813	.939	.906	.960	.875	.911	.719	.945	.986

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File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				04:45 PM				04:30 PM				04:00 PM				
+0 mins.	23	135	40	198	33	86	18	137	**15**	168	33	216	**40**	**117**	12	169	
+15 mins.	29	145	29	203	20	**108**	**22**	**150**	12	157	**40**	209	37	117	**17**	**171**	
+30 mins.	23	156	**47**	226	**40**	85	15	140	10	173	40	223	35	104	10	149	
+45 mins.	**31**	**192**	33	**256**	37	90	11	138	11	**181**	33	**225**	36	114	10	160	
Total Volume	106	628	149	883	130	369	66	565	48	679	146	873	148	452	49	649	
% App. Total	12	71.1	16.9		23	65.3	11.7		5.5	77.8	16.7		22.8	69.6	7.6		
PHF	.855	.818	.793	.862	.813	.854	.750	.942	.800	.938	.913	.970	.925	.966	.721	.949	

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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles

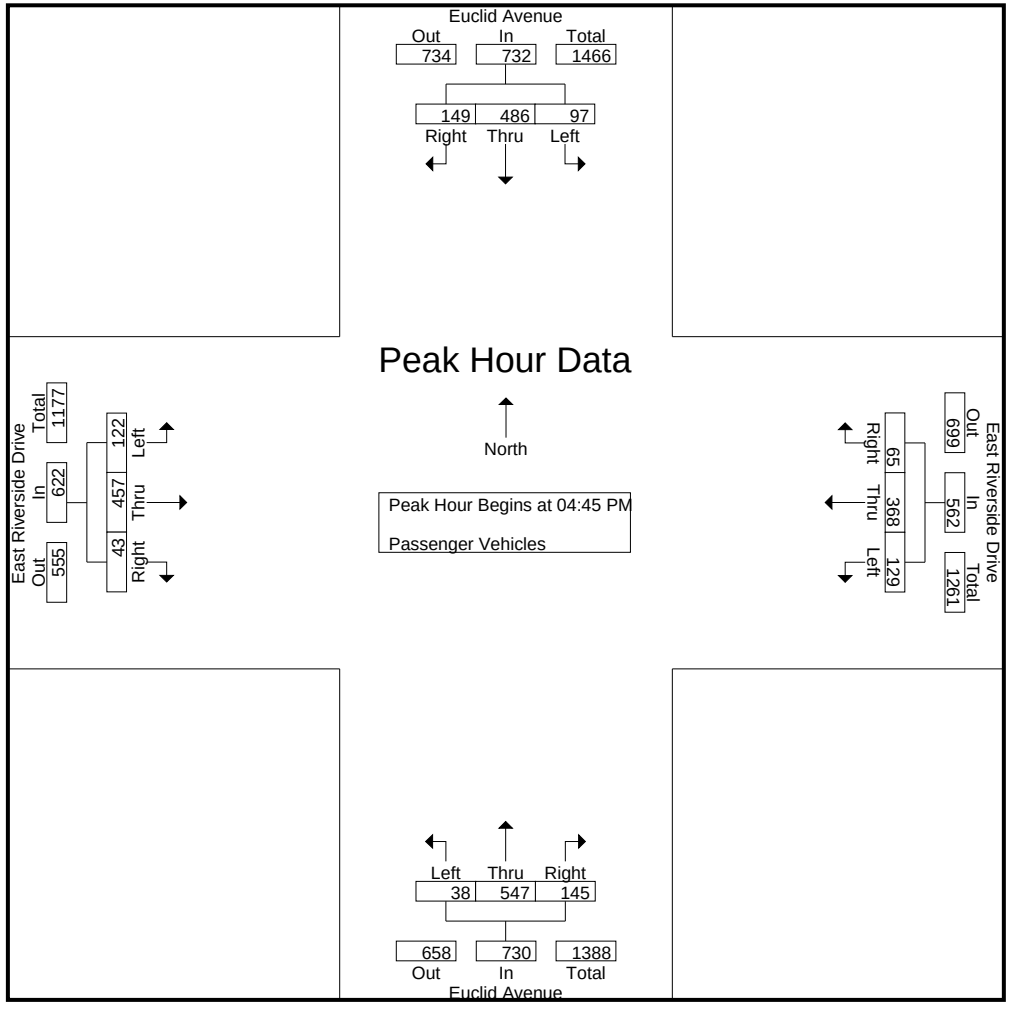
	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	24	102	31	19	157	39	69	13	8	121	13	102	24	15	139	36	115	9	5	160	47	577	624
04:15 PM	28	93	39	17	160	36	87	16	4	139	10	115	24	7	149	35	115	15	4	165	32	613	645
04:30 PM	27	125	38	25	190	38	79	17	5	134	15	133	33	16	181	33	103	10	3	146	49	651	700
04:45 PM	23	134	35	21	192	32	86	18	13	136	12	118	40	21	170	34	114	10	6	158	61	656	717
Total	102	454	143	82	699	145	321	64	30	530	50	468	121	59	639	138	447	44	18	629	189	2497	2686
05:00 PM	23	108	39	27	170	20	108	22	13	150	9	147	40	13	196	26	110	9	5	145	58	661	719
05:15 PM	28	121	29	18	178	40	85	14	7	139	11	141	33	14	185	31	109	15	11	155	50	657	707
05:30 PM	23	123	46	31	192	37	89	11	6	137	6	141	32	14	179	31	124	9	7	164	58	672	730
05:45 PM	31	162	32	17	225	20	80	19	10	119	8	126	31	13	165	30	110	9	8	149	48	658	706
Total	105	514	146	93	765	117	362	66	36	545	34	555	136	54	725	118	453	42	31	613	214	2648	2862
06:00 PM	24	78	27	10	129	34	83	22	15	139	5	136	29	17	170	29	95	10	7	134	49	572	621
06:15 PM	30	98	31	21	159	21	63	16	10	100	4	82	33	26	119	36	87	6	4	129	61	507	568
06:30 PM	21	88	38	18	147	26	70	14	7	110	11	117	27	12	155	26	62	9	6	97	43	509	552
06:45 PM	23	91	27	16	141	25	56	14	5	95	11	80	33	17	124	21	62	4	2	87	40	447	487
Total	98	355	123	65	576	106	272	66	37	444	31	415	122	72	568	112	306	29	19	447	193	2035	2228
Grand Total	305	1323	412	240	2040	368	955	196	103	1519	115	1438	379	185	1932	368	1206	115	68	1689	596	7180	7776
Apprch %	15	64.9	20.2			24.2	62.9	12.9			6	74.4	19.6			21.8	71.4	6.8					
Total %	4.2	18.4	5.7		28.4	5.1	13.3	2.7		21.2	1.6	20	5.3		26.9	5.1	16.8	1.6		23.5	7.7	92.3	

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	23	**134**	35	**192**	32	86	18	136	**12**	118	**40**	170	**34**	114	10	158	656
05:00 PM	23	108	39	170	20	**108**	**22**	**150**	9	**147**	40	**196**	26	110	9	145	661
05:15 PM	**28**	121	29	178	**40**	85	14	139	11	141	33	185	31	109	**15**	155	657
05:30 PM	23	123	**46**	192	37	89	11	137	6	141	32	179	31	**124**	9	**164**	**672**
Total Volume	97	486	149	732	129	368	65	562	38	547	145	730	122	457	43	622	2646
% App. Total	13.3	66.4	20.4		23	65.5	11.6		5.2	74.9	19.9		19.6	73.5	6.9		
PHF	.866	.907	.810	.953	.806	.852	.739	.937	.792	.930	.906	.931	.897	.921	.717	.948	.984

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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:45 PM				04:45 PM				04:45 PM				04:45 PM				
+0 mins.	23	**134**	35	**192**	32	86	18	136	**12**	118	**40**	170	**34**	114	10	158	
+15 mins.	23	108	39	170	20	**108**	**22**	**150**	9	**147**	40	**196**	26	110	9	145	
+30 mins.	**28**	121	29	178	**40**	85	14	139	11	141	33	185	31	109	**15**	155	
+45 mins.	23	123	**46**	192	37	89	11	137	6	141	32	179	31	**124**	9	**164**	
Total Volume	97	486	149	732	129	368	65	562	38	547	145	730	122	457	43	622	
% App. Total	13.3	66.4	20.4		23	65.5	11.6		5.2	74.9	19.9		19.6	73.5	6.9		
PHF	.866	.907	.810	.953	.806	.852	.739	.937	.792	.930	.906	.931	.897	.921	.717	.948	

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City of Chino
N/S: Euclid Avenue
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Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

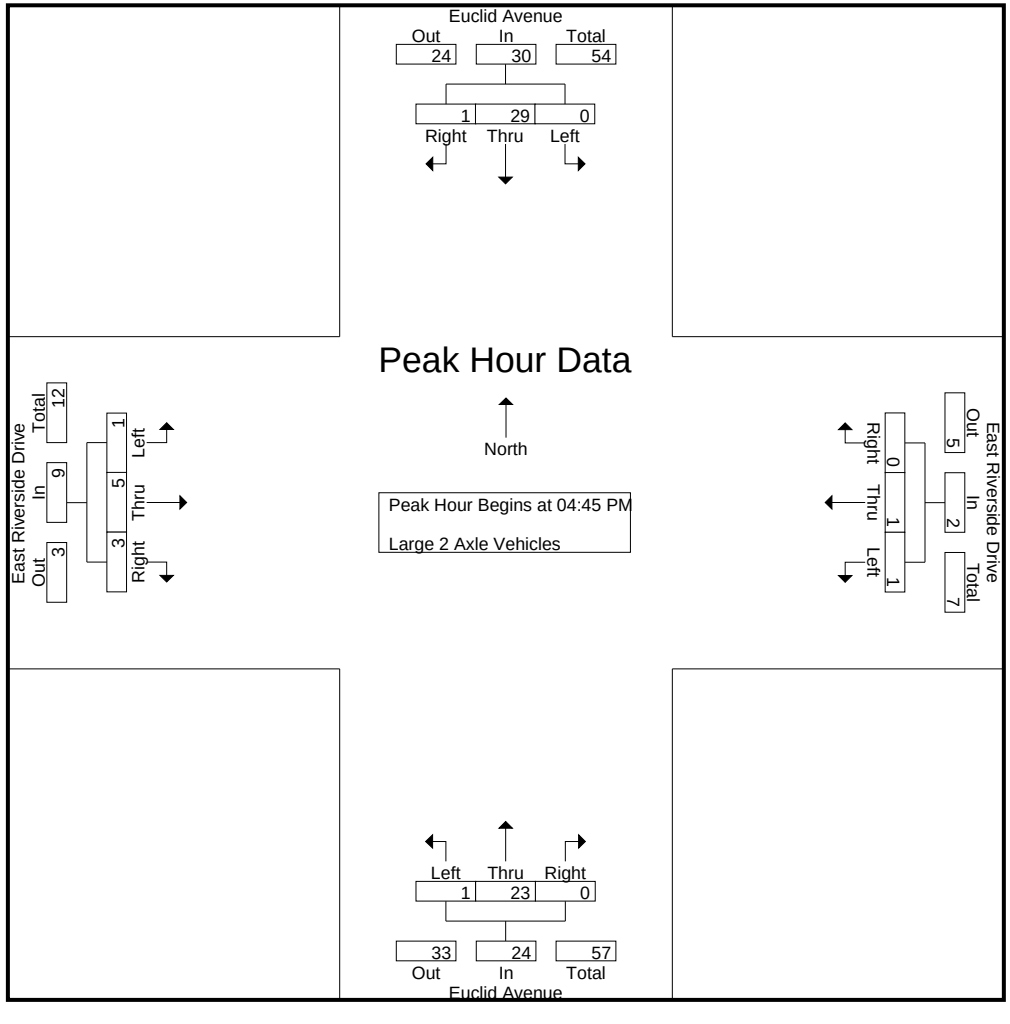
	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	1	8	0	0	9	0	0	0	0	0	1	3	0	0	4	3	2	1	0	6	0	19	19
04:15 PM	0	8	0	0	8	2	1	0	0	3	1	9	0	0	10	2	2	1	0	5	0	26	26
04:30 PM	0	8	0	0	8	1	0	0	0	1	0	5	0	0	5	1	0	0	0	1	0	15	15
04:45 PM	0	9	0	0	9	1	0	0	0	1	0	8	0	0	8	0	0	0	0	0	0	18	18
Total	1	33	0	0	34	4	1	0	0	5	2	25	0	0	27	6	4	2	0	12	0	78	78
05:00 PM	0	10	0	0	10	0	0	0	0	0	1	4	0	0	5	0	1	2	1	3	1	18	19
05:15 PM	0	7	0	0	7	0	0	0	0	0	0	8	0	0	8	0	2	1	1	3	1	18	19
05:30 PM	0	3	1	1	4	0	1	0	0	1	0	3	0	0	3	1	2	0	0	3	1	11	12
05:45 PM	0	6	1	0	7	0	0	0	0	0	0	4	1	0	5	2	0	0	0	2	0	14	14
Total	0	26	2	1	28	0	1	0	0	1	1	19	1	0	21	3	5	3	2	11	3	61	64
06:00 PM	0	4	0	0	4	0	1	0	0	1	0	5	0	0	5	1	1	1	1	3	1	13	14
06:15 PM	0	10	0	0	10	1	0	0	0	1	1	4	1	0	6	0	0	0	0	0	0	17	17
06:30 PM	0	3	0	0	3	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	5	5
06:45 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	0	1	0	0	1	0	3	3
Total	0	18	0	0	18	1	1	0	0	2	1	11	1	0	13	1	3	1	1	5	1	38	39
Grand Total	1	77	2	1	80	5	3	0	0	8	4	55	2	0	61	10	12	6	3	28	4	177	181
Apprch %	1.2	96.2	2.5			62.5	37.5	0			6.6	90.2	3.3			35.7	42.9	21.4					
Total %	0.6	43.5	1.1		45.2	2.8	1.7	0		4.5	2.3	31.1	1.1		34.5	5.6	6.8	3.4		15.8	2.2	97.8	

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	9	0	9	**1**	0	0	**1**	0	**8**	0	**8**	0	0	0	0	**18**
05:00 PM	0	**10**	0	**10**	0	0	0	0	**1**	4	0	5	0	1	**2**	**3**	18
05:15 PM	0	7	0	7	0	0	0	0	0	8	0	8	0	**2**	1	3	18
05:30 PM	0	3	**1**	4	0	**1**	0	1	0	3	0	3	**1**	2	0	3	11
Total Volume	0	29	1	30	1	1	0	2	1	23	0	24	1	5	3	9	65
% App. Total	0	96.7	3.3		50	50	0		4.2	95.8	0		11.1	55.6	33.3		
PHF	.000	.725	.250	.750	.250	.250	.000	.500	.250	.719	.000	.750	.250	.625	.375	.750	.903

Counts Unlimited, Inc.
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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:45 PM				04:45 PM				04:45 PM				04:45 PM				
+0 mins.	0	9	0	9	**1**	0	0	**1**	0	**8**	0	**8**	0	0	0	0	
+15 mins.	0	**10**	0	**10**	0	0	0	0	**1**	4	0	5	0	1	**2**	**3**	
+30 mins.	0	7	0	7	0	0	0	0	0	8	0	8	0	**2**	1	3	
+45 mins.	0	3	**1**	4	0	**1**	0	1	0	3	0	3	**1**	2	0	3	
Total Volume	0	29	1	30	1	1	0	2	1	23	0	24	1	5	3	9	
% App. Total	0	96.7	3.3		50	50	0		4.2	95.8	0		11.1	55.6	33.3		
PHF	.000	.725	.250	.750	.250	.250	.000	.500	.250	.719	.000	.750	.250	.625	.375	.750	

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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

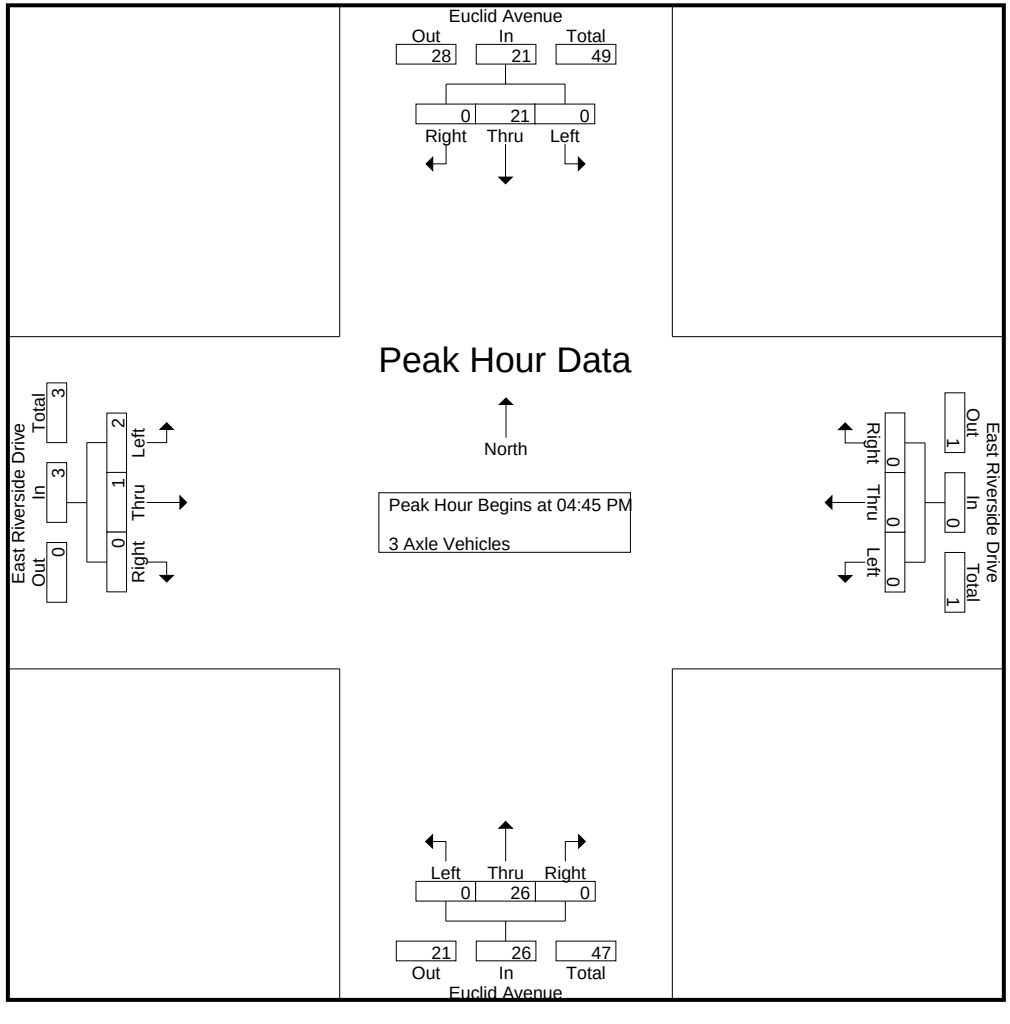
	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	4	0	0	4	0	0	0	0	0	0	6	0	0	6	0	0	1	0	1	0	11	11
04:15 PM	0	7	0	0	7	0	0	0	0	0	0	11	0	0	11	0	0	1	0	1	0	19	19
04:30 PM	1	6	0	0	7	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	14	14
04:45 PM	0	10	0	0	10	0	0	0	0	0	0	13	0	0	13	1	0	0	0	1	0	24	24
Total	1	27	0	0	28	0	0	0	0	0	0	37	0	0	37	1	0	2	0	3	0	68	68
05:00 PM	0	4	0	0	4	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	9	9
05:15 PM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	1	0	0	0	1	0	6	6
05:30 PM	0	5	0	0	5	0	0	0	0	0	0	5	0	0	5	0	1	0	0	1	0	11	11
05:45 PM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5	5
Total	0	13	0	0	13	0	0	0	0	0	0	16	0	0	16	1	1	0	0	2	0	31	31
06:00 PM	0	4	1	0	5	0	0	0	0	0	1	2	0	0	3	0	0	1	0	1	0	9	9
06:15 PM	0	7	0	0	7	0	0	0	0	0	0	5	0	0	5	0	0	0	0	0	0	12	12
06:30 PM	0	3	0	0	3	0	0	0	0	0	0	2	0	0	2	0	0	0	0	0	0	5	5
06:45 PM	1	6	0	0	7	0	0	0	0	0	0	7	0	0	7	0	0	0	0	0	0	14	14
Total	1	20	1	0	22	0	0	0	0	0	1	16	0	0	17	0	0	1	0	1	0	40	40
Grand Total	2	60	1	0	63	0	0	0	0	0	1	69	0	0	70	2	1	3	0	6	0	139	139
Apprch %	3.2	95.2	1.6			0	0	0			1.4	98.6	0			33.3	16.7	50					
Total %	1.4	43.2	0.7		45.3	0	0	0		0	0.7	49.6	0		50.4	1.4	0.7	2.2		4.3	0	100	

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	0	**10**	0	**10**	0	0	0	0	0	**13**	0	**13**	**1**	0	0	**1**	**24**
05:00 PM	0	4	0	4	0	0	0	0	0	5	0	5	0	0	0	0	9
05:15 PM	0	2	0	2	0	0	0	0	0	3	0	3	1	0	0	1	6
05:30 PM	0	5	0	5	0	0	0	0	0	5	0	5	0	**1**	0	1	11
Total Volume	0	21	0	21	0	0	0	0	0	26	0	26	2	1	0	3	50
% App. Total	0	100	0		0	0	0		0	100	0		66.7	33.3	0		
PHF	.000	.525	.000	.525	.000	.000	.000	.000	.000	.500	.000	.500	.500	.250	.000	.750	.521

Counts Unlimited, Inc.
PO Box 1178
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(951)268-6268

City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



Counts Unlimited, Inc.
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City of Chino
N/S: Euclid Avenue
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Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:45 PM				04:45 PM				04:45 PM				04:45 PM				
+0 mins.	0	**10**	0	**10**	0	0	0	0	0	**13**	0	**13**	**1**	0	0	**1**	
+15 mins.	0	4	0	4	0	0	0	0	0	5	0	5	0	0	0	0	
+30 mins.	0	2	0	2	0	0	0	0	0	3	0	3	1	0	0	1	
+45 mins.	0	5	0	5	0	0	0	0	0	5	0	5	0	**1**	0	1	
Total Volume	0	21	0	21	0	0	0	0	0	26	0	26	2	1	0	3	
% App. Total	0	100	0		0	0	0		0	100	0		66.7	33.3	0		
PHF	.000	.525	.000	.525	.000	.000	.000	.000	.000	.500	.000	.500	.500	.250	.000	.750	

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City of Chino
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File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

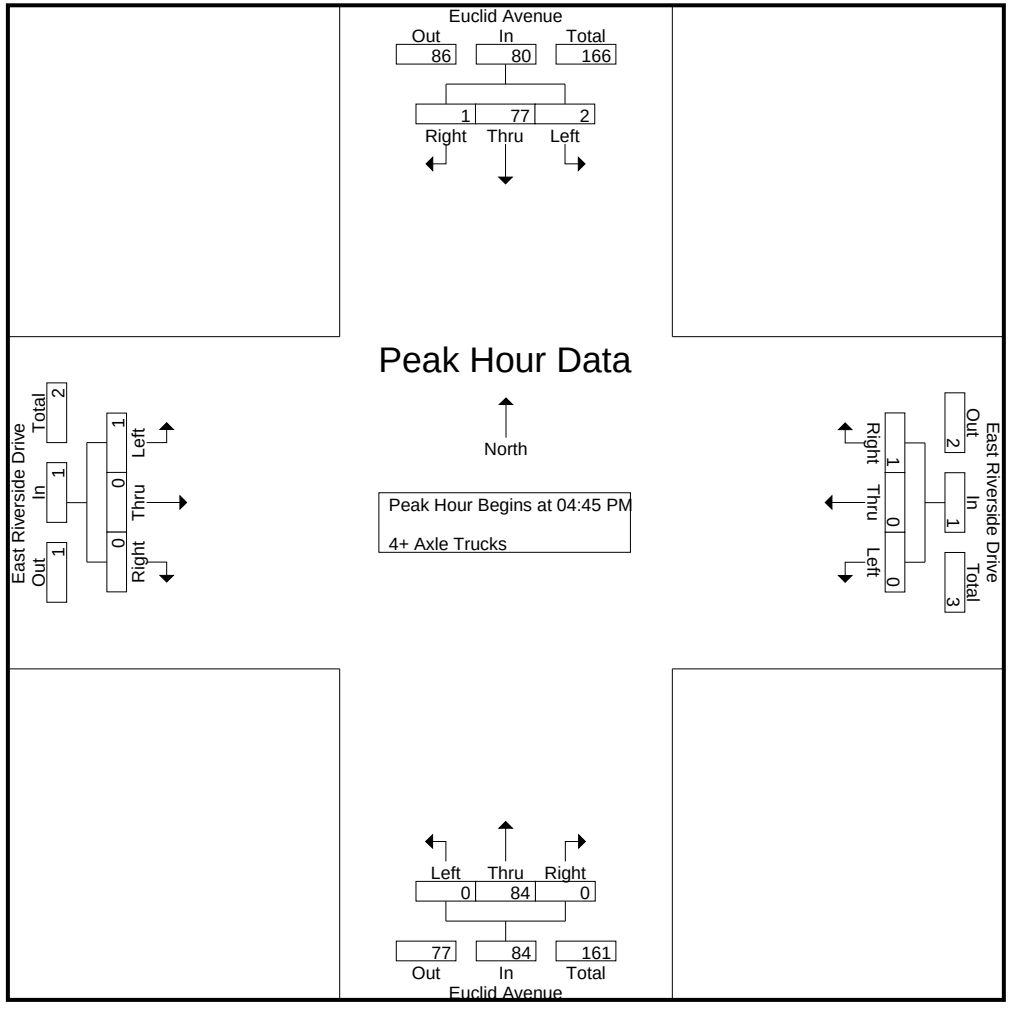
	Euclid Avenue Southbound					East Riverside Drive Westbound					Euclid Avenue Northbound					East Riverside Drive Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	1	22	1	1	24	0	0	0	0	0	0	16	0	0	16	1	0	1	0	2	1	42	43
04:15 PM	1	17	0	0	18	0	0	0	0	0	0	21	0	0	21	0	0	0	0	0	0	39	39
04:30 PM	1	29	1	0	31	0	0	0	0	0	0	23	0	0	23	1	1	0	0	2	0	56	56
04:45 PM	1	24	0	0	25	0	0	0	0	0	0	18	0	0	18	1	0	0	0	1	0	44	44
Total	4	92	2	1	98	0	0	0	0	0	0	78	0	0	78	3	1	1	0	5	1	181	182
05:00 PM	0	13	1	0	14	0	0	0	0	0	0	17	0	0	17	0	0	0	0	0	0	31	31
05:15 PM	1	15	0	0	16	0	0	1	0	1	0	29	0	0	29	0	0	0	0	0	0	46	46
05:30 PM	0	25	0	0	25	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0	45	45
05:45 PM	0	22	0	0	22	0	0	0	0	0	0	20	0	0	20	0	0	0	0	0	0	42	42
Total	1	75	1	0	77	0	0	1	0	1	0	86	0	0	86	0	0	0	0	0	0	164	164
06:00 PM	1	18	0	0	19	0	0	0	0	0	0	21	0	0	21	0	1	1	1	2	1	42	43
06:15 PM	0	18	0	0	18	0	0	0	0	0	0	14	0	0	14	2	0	1	0	3	0	35	35
06:30 PM	0	37	1	1	38	0	0	0	0	0	0	22	0	0	22	1	0	0	0	1	1	61	62
06:45 PM	0	26	0	0	26	0	0	0	0	0	0	25	1	0	26	0	0	0	0	0	0	52	52
Total	1	99	1	1	101	0	0	0	0	0	0	82	1	0	83	3	1	2	1	6	2	190	192
Grand Total	6	266	4	2	276	0	0	1	0	1	0	246	1	0	247	6	2	3	1	11	3	535	538
Apprch %	2.2	96.4	1.4			0	0	100			0	99.6	0.4			54.5	18.2	27.3					
Total %	1.1	49.7	0.7		51.6	0	0	0.2		0.2	0	46	0.2		46.2	1.1	0.4	0.6		2.1	0.6	99.4	

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**1**	24	0	**25**	0	0	0	0	0	18	0	18	**1**	0	0	**1**	44
05:00 PM	0	13	**1**	14	0	0	0	0	0	17	0	17	0	0	0	0	31
05:15 PM	1	15	0	16	0	0	**1**	**1**	0	**29**	0	**29**	0	0	0	0	**46**
05:30 PM	0	**25**	0	25	0	0	0	0	0	20	0	20	0	0	0	0	45
Total Volume	2	77	1	80	0	0	1	1	0	84	0	84	1	0	0	1	166
% App. Total	2.5	96.2	1.2		0	0	100		0	100	0		100	0	0		
PHF	.500	.770	.250	.800	.000	.000	.250	.250	.000	.724	.000	.724	.250	.000	.000	.250	.902

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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: East Riverside Drive
Weather: Clear

File Name : 13_CHN_Eu_Riv PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				East Riverside Drive Westbound				Euclid Avenue Northbound				East Riverside Drive Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:45 PM				04:45 PM				04:45 PM				04:45 PM				
+0 mins.	**1**	24	0	**25**	0	0	0	0	0	18	0	18	**1**	0	0	**1**	
+15 mins.	0	13	**1**	14	0	0	0	0	0	17	0	17	0	0	0	0	
+30 mins.	1	15	0	16	0	0	**1**	**1**	0	**29**	0	**29**	0	0	0	0	
+45 mins.	0	**25**	0	25	0	0	0	0	0	20	0	20	0	0	0	0	
Total Volume	2	77	1	80	0	0	1	1	0	84	0	84	1	0	0	1	
% App. Total	2.5	96.2	1.2		0	0	100		0	100	0		100	0	0		
PHF	.500	.770	.250	.800	.000	.000	.250	.250	.000	.724	.000	.724	.250	.000	.000	.250	

Location: Chino
N/S: Euclid Avenue
E/W: East Riverside Drive

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg Euclid Avenue	East Leg East Riverside Drive	South Leg Euclid Avenue	West Leg East Riverside Drive	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
6:00 AM	0	0	0	0	0
6:15 AM	0	0	1	0	1
6:30 AM	1	0	0	0	1
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	1	0	0	0	1
7:45 AM	1	0	0	0	1
8:00 AM	0	0	0	0	0
8:15 AM	2	0	2	1	5
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	5	0	3	1	9

	North Leg Euclid Avenue	East Leg East Riverside Drive	South Leg Euclid Avenue	West Leg East Riverside Drive	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	1	0	0	1	2
4:15 PM	0	0	0	1	1
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	1	0	1
5:30 PM	1	0	0	0	1
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
6:30 PM	1	0	0	0	1
6:45 PM	0	0	1	1	2
TOTAL VOLUMES:	3	0	2	3	8

Location: Chino
N/S: Euclid Avenue
E/W: East Riverside Drive

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound Euclid Avenue			Westbound East Riverside Drive			Northbound Euclid Avenue			Eastbound East Riverside Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	1	0	0	1
6:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:45 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
7:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
7:15 AM	0	1	0	0	0	0	0	0	0	0	2	0	3
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	2	0	0	3	0	0	0	0	1	2	0	8

	Southbound Euclid Avenue			Westbound East Riverside Drive			Northbound Euclid Avenue			Eastbound East Riverside Drive			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	1	0	0	1	0	0	0	0	2
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	1	0	1	0	0	0	0	0	2
5:15 PM	0	0	0	0	0	0	0	2	1	0	1	0	4
5:30 PM	0	0	1	0	0	0	0	0	0	0	1	0	2
5:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
6:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
6:15 PM	0	1	0	0	0	0	0	0	0	0	1	0	2
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	2	0	0	0	0	0	0	0	2
TOTAL VOLUMES:	0	1	2	0	4	0	1	3	1	0	4	0	16

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	9	187	13	6	209	8	11	8	3	27	1	100	4	1	105	6	11	7	6	24	16	365	381
06:15 AM	3	214	14	8	231	20	18	7	2	45	3	99	7	1	109	11	22	6	2	39	13	424	437
06:30 AM	8	230	9	7	247	22	38	8	0	68	3	113	7	4	123	7	14	2	0	23	11	461	472
06:45 AM	9	246	21	5	276	29	66	10	3	105	2	109	18	6	129	16	17	2	1	35	15	545	560
Total	29	877	57	26	963	79	133	33	8	245	9	421	36	12	466	40	64	17	9	121	55	1795	1850
07:00 AM	8	151	16	8	175	13	58	12	1	83	3	132	26	14	161	10	27	11	6	48	29	467	496
07:15 AM	12	156	14	2	182	17	62	23	1	102	4	154	19	4	177	19	39	8	3	66	10	527	537
07:30 AM	15	162	17	11	194	22	54	22	0	98	7	148	19	7	174	22	50	10	4	82	22	548	570
07:45 AM	10	190	22	11	222	20	86	15	0	121	12	139	29	12	180	12	41	8	4	61	27	584	611
Total	45	659	69	32	773	72	260	72	2	404	26	573	93	37	692	63	157	37	17	257	88	2126	2214
08:00 AM	15	202	20	9	237	23	78	18	0	119	5	116	23	12	144	12	40	12	6	64	27	564	591
08:15 AM	12	191	21	5	224	24	54	14	1	92	5	137	28	7	170	16	41	11	6	68	19	554	573
08:30 AM	7	186	17	7	210	16	34	10	2	60	4	126	25	1	155	18	39	14	5	71	15	496	511
08:45 AM	16	184	12	4	212	13	49	20	2	82	7	141	30	10	178	10	27	7	3	44	19	516	535
Total	50	763	70	25	883	76	215	62	5	353	21	520	106	30	647	56	147	44	20	247	80	2130	2210
Grand Total	124	2299	196	83	2619	227	608	167	15	1002	56	1514	235	79	1805	159	368	98	46	625	223	6051	6274
Apprch %	4.7	87.8	7.5			22.7	60.7	16.7			3.1	83.9	13			25.4	58.9	15.7					
Total %	2	38	3.2		43.3	3.8	10	2.8		16.6	0.9	25	3.9		29.8	2.6	6.1	1.6		10.3	3.6	96.4	
Passenger Vehicles	78	1853	185		2193	201	597	42		843	50	981	217		1325	148	351	93		635	0	0	4996
% Passenger Vehicles	62.9	80.6	94.4	92.8	81.2	88.5	98.2	25.1	20	82.9	89.3	64.8	92.3	97.5	70.3	93.1	95.4	94.9	93.5	94.6	0	0	79.6
Large 2 Axle Vehicles	12	68	4		87	13	8	18		40	2	115	5		123	3	13	4		22	0	0	272
% Large 2 Axle Vehicles	9.7	3	2	3.6	3.2	5.7	1.3	10.8	6.7	3.9	3.6	7.6	2.1	1.3	6.5	1.9	3.5	4.1	4.3	3.3	0	0	4.3
3 Axle Vehicles	19	76	2		98	7	0	13		22	0	87	5		92	1	1	0		2	0	0	214
% 3 Axle Vehicles	15.3	3.3	1	1.2	3.6	3.1	0	7.8	13.3	2.2	0	5.7	2.1	0	4.9	0.6	0.3	0	0	0.3	0	0	3.4
4+ Axle Trucks	15	302	5		324	6	3	94		112	4	331	8		344	7	3	1		12	0	0	792
% 4+ Axle Trucks	12.1	13.1	2.6	2.4	12	2.6	0.5	56.3	60	11	7.1	21.9	3.4	1.3	18.3	4.4	0.8	1	2.2	1.8	0	0	12.6

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

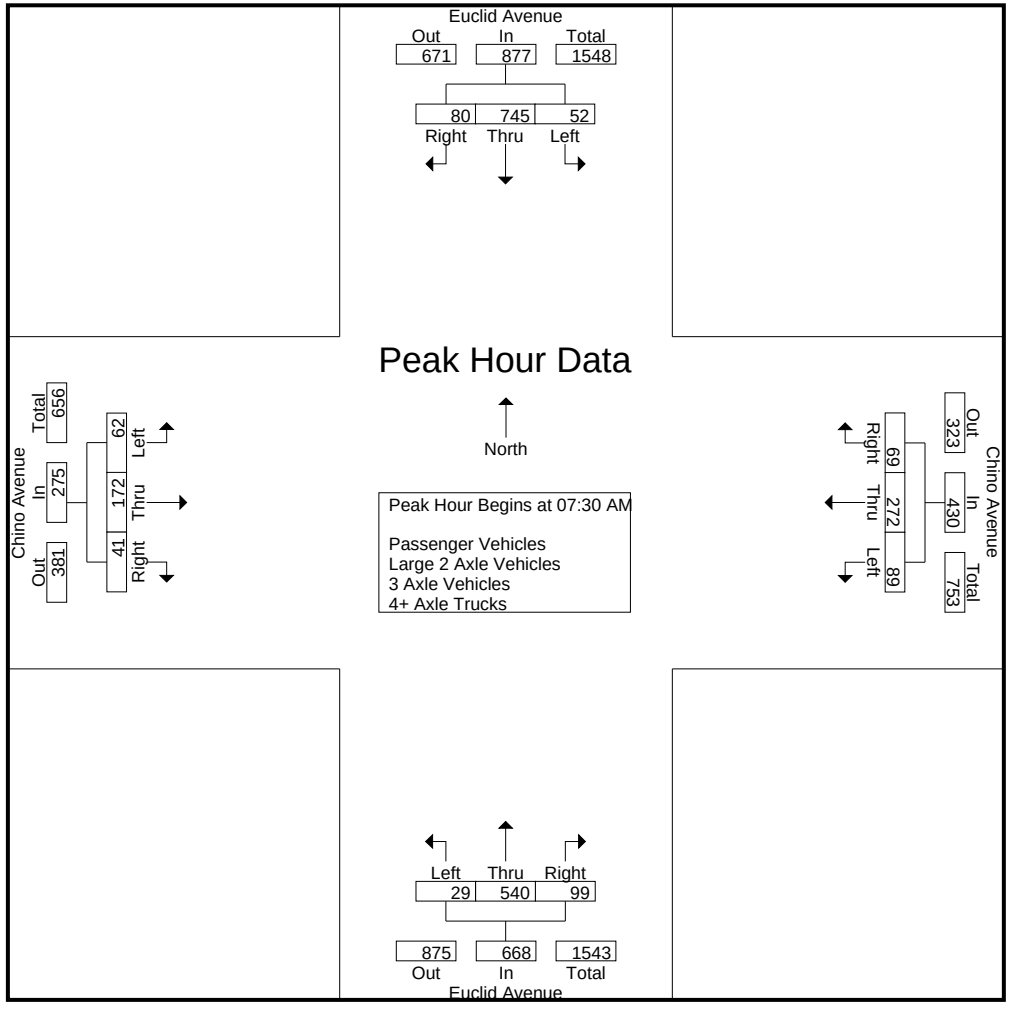
File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**15**	162	17	194	22	54	**22**	98	7	**148**	19	174	**22**	**50**	10	**82**	548
07:45 AM	10	190	**22**	222	20	**86**	15	**121**	**12**	139	**29**	**180**	12	41	8	61	**584**
08:00 AM	15	**202**	20	**237**	23	78	18	119	5	116	23	144	12	40	**12**	64	564
08:15 AM	12	191	21	224	**24**	54	14	92	5	137	28	170	16	41	11	68	554
Total Volume	52	745	80	877	89	272	69	430	29	540	99	668	62	172	41	275	2250
% App. Total	5.9	84.9	9.1		20.7	63.3	16		4.3	80.8	14.8		22.5	62.5	14.9		
PHF	.867	.922	.909	.925	.927	.791	.784	.888	.604	.912	.853	.928	.705	.860	.854	.838	.963

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City of Chino
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File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022
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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	06:00 AM				07:15 AM				07:00 AM				07:30 AM				
+0 mins.	**9**	187	13	209	17	62	**23**	102	3	132	26	161	**22**	**50**	10	**82**	
+15 mins.	3	214	14	231	22	54	22	98	4	**154**	19	177	12	41	8	61	
+30 mins.	8	230	9	247	20	**86**	15	**121**	7	148	19	174	12	40	**12**	64	
+45 mins.	9	**246**	**21**	**276**	**23**	78	18	119	**12**	139	**29**	**180**	16	41	11	68	
Total Volume	29	877	57	963	82	280	78	440	26	573	93	692	62	172	41	275	
% App. Total	3	91.1	5.9		18.6	63.6	17.7		3.8	82.8	13.4		22.5	62.5	14.9		
PHF	.806	.891	.679	.872	.891	.814	.848	.909	.542	.930	.802	.961	.705	.860	.854	.838	

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City of Chino
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File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
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Groups Printed- Passenger Vehicles

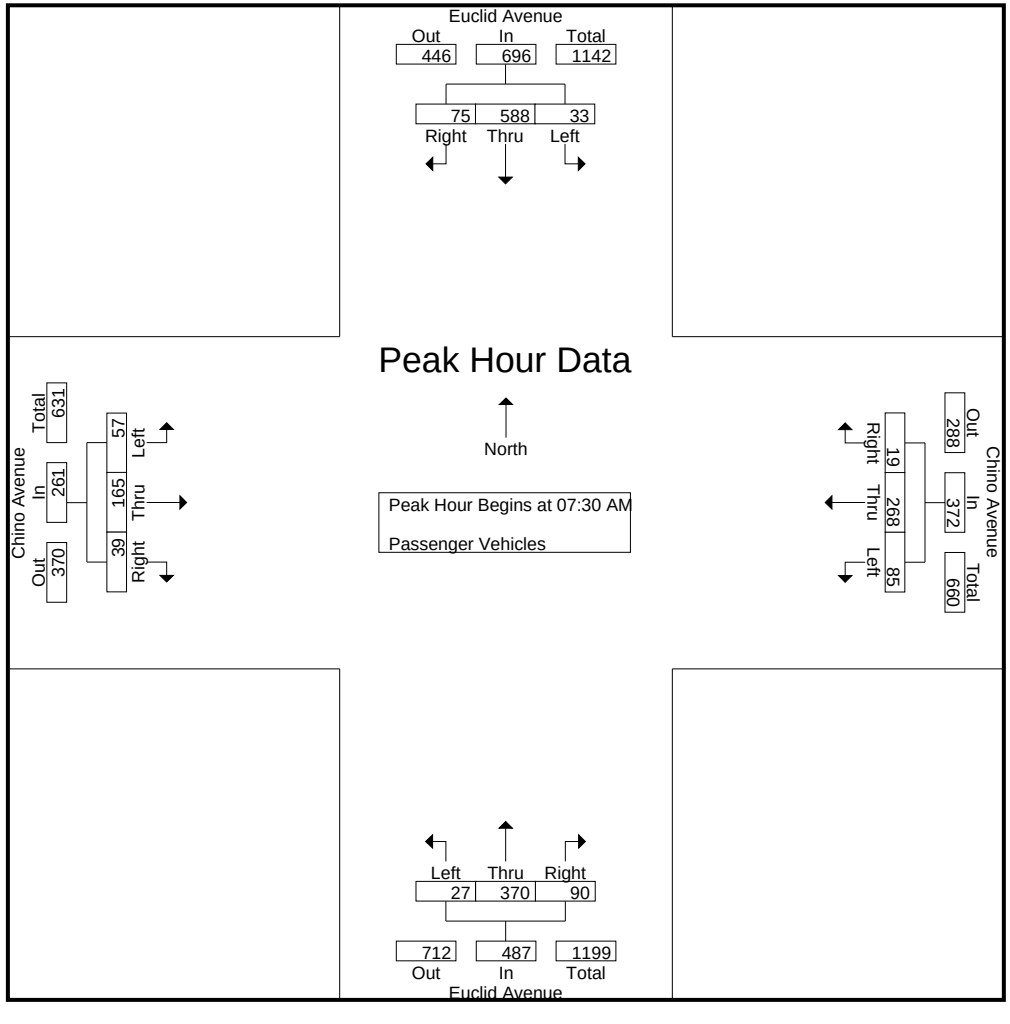
	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	3	155	12	5	170	7	11	1	0	19	1	65	4	1	70	5	11	7	6	23	12	282	294
06:15 AM	3	177	14	8	194	20	18	1	0	39	2	56	6	1	64	10	21	6	2	37	11	334	345
06:30 AM	5	205	9	7	219	18	38	4	0	60	3	59	7	4	69	7	14	2	0	23	11	371	382
06:45 AM	5	195	20	5	220	25	63	2	1	90	2	59	16	6	77	15	16	2	1	33	13	420	433
Total	16	732	55	25	803	70	130	8	1	208	8	239	33	12	280	37	62	17	9	116	47	1407	1454
07:00 AM	4	122	14	6	140	11	57	2	0	70	3	81	25	14	109	10	25	10	6	45	26	364	390
07:15 AM	9	120	13	1	142	13	62	5	0	80	1	107	18	4	126	18	36	8	3	62	8	410	418
07:30 AM	11	129	14	9	154	22	54	6	0	82	7	103	18	7	128	20	48	10	4	78	20	442	462
07:45 AM	6	150	22	11	178	18	85	3	0	106	11	101	29	12	141	11	40	7	3	58	26	483	509
Total	30	521	63	27	614	64	258	16	0	338	22	392	90	37	504	59	149	35	16	243	80	1699	1779
08:00 AM	9	158	20	9	187	22	76	7	0	105	4	82	20	10	106	11	37	12	6	60	25	458	483
08:15 AM	7	151	19	5	177	23	53	3	1	79	5	84	23	7	112	15	40	10	5	65	18	433	451
08:30 AM	6	151	17	7	174	13	31	5	1	49	4	93	21	1	118	17	36	12	4	65	13	406	419
08:45 AM	10	140	11	4	161	9	49	3	0	61	7	91	30	10	128	9	27	7	3	43	17	393	410
Total	32	600	67	25	699	67	209	18	2	294	20	350	94	28	464	52	140	41	18	233	73	1690	1763
Grand Total	78	1853	185	77	2116	201	597	42	3	840	50	981	217	77	1248	148	351	93	43	592	200	4796	4996
Apprch %	3.7	87.6	8.7			23.9	71.1	5			4	78.6	17.4			25	59.3	15.7					
Total %	1.6	38.6	3.9		44.1	4.2	12.4	0.9		17.5	1	20.5	4.5		26	3.1	7.3	1.9		12.3	4	96	

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**11**	129	14	154	22	54	6	82	7	**103**	18	128	**20**	**48**	10	**78**	442
07:45 AM	6	150	**22**	178	18	**85**	3	**106**	**11**	101	**29**	**141**	11	40	7	58	**483**
08:00 AM	9	**158**	20	**187**	22	76	**7**	105	4	82	20	106	11	37	**12**	60	458
08:15 AM	7	151	19	177	**23**	53	3	79	5	84	23	112	15	40	10	65	433
Total Volume	33	588	75	696	85	268	19	372	27	370	90	487	57	165	39	261	1816
% App. Total	4.7	84.5	10.8		22.8	72	5.1		5.5	76	18.5		21.8	63.2	14.9		
PHF	.750	.930	.852	.930	.924	.788	.679	.877	.614	.898	.776	.863	.713	.859	.813	.837	.940

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	**11**	129	14	154	22	54	6	82	7	**103**	18	128	**20**	**48**	10	**78**	
+15 mins.	6	150	**22**	178	18	**85**	3	**106**	**11**	101	**29**	**141**	11	40	7	58	
+30 mins.	9	**158**	20	**187**	22	76	**7**	105	4	82	20	106	11	37	**12**	60	
+45 mins.	7	151	19	177	**23**	53	3	79	5	84	23	112	15	40	10	65	
Total Volume	33	588	75	696	85	268	19	372	27	370	90	487	57	165	39	261	
% App. Total	4.7	84.5	10.8		22.8	72	5.1		5.5	76	18.5		21.8	63.2	14.9		
PHF	.750	.930	.852	.930	.924	.788	.679	.877	.614	.898	.776	.863	.713	.859	.813	.837	

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

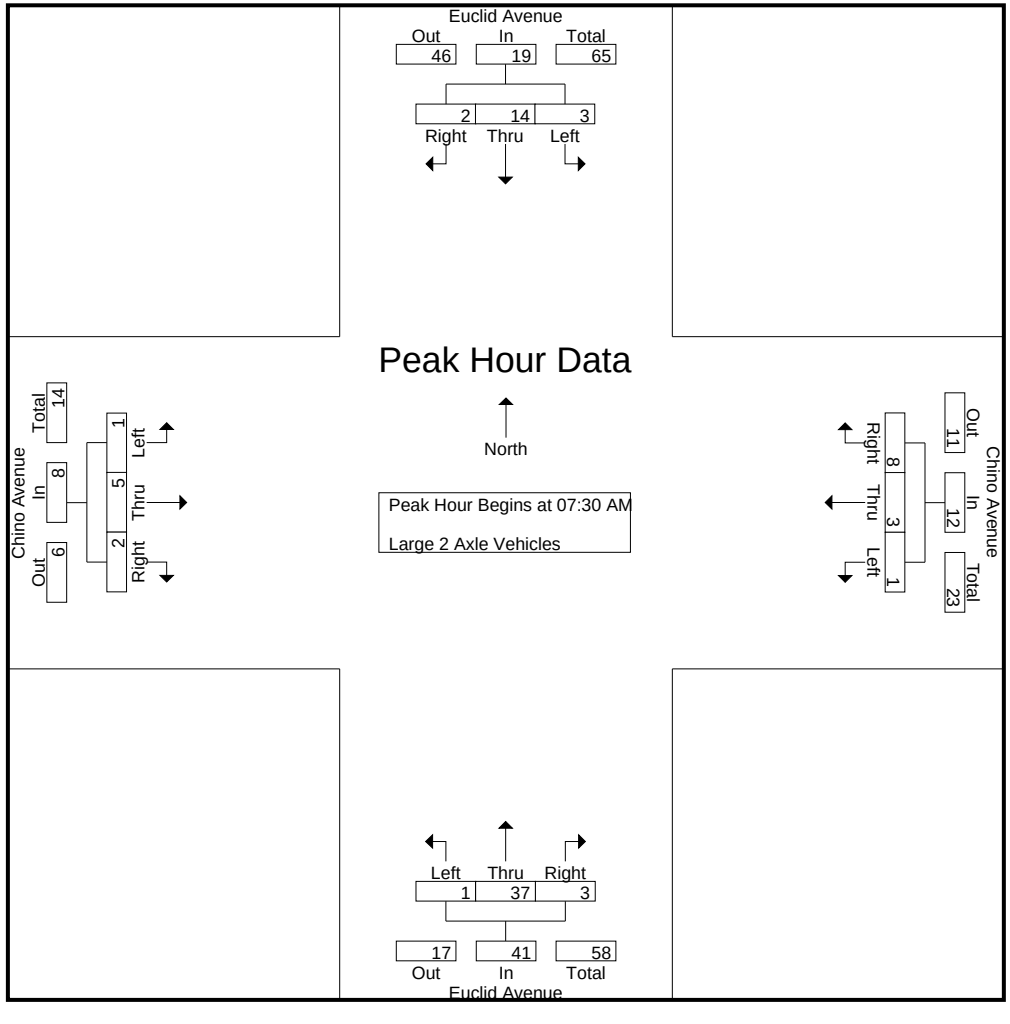
	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	2	0	0	2	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	6	6
06:15 AM	0	6	0	0	6	0	0	0	0	0	0	14	0	0	14	0	1	0	0	1	0	21	21
06:30 AM	1	8	0	0	9	2	0	1	0	3	0	12	0	0	12	0	0	0	0	0	0	24	24
06:45 AM	2	11	1	0	14	3	3	1	0	7	0	10	1	0	11	1	1	0	0	2	0	34	34
Total	3	27	1	0	31	5	3	2	0	10	0	40	1	0	41	1	2	0	0	3	0	85	85
07:00 AM	1	4	1	1	6	1	1	3	0	5	0	14	0	0	14	0	1	1	0	2	1	27	28
07:15 AM	2	8	0	0	10	2	0	3	1	5	1	7	1	0	9	0	3	0	0	3	1	27	28
07:30 AM	2	6	2	2	10	0	0	2	0	2	0	11	0	0	11	0	2	0	0	2	2	25	27
07:45 AM	0	4	0	0	4	1	0	3	0	4	0	3	0	0	3	1	1	1	1	3	1	14	15
Total	5	22	3	3	30	4	1	11	1	16	1	35	1	0	37	1	7	2	1	10	5	93	98
08:00 AM	0	2	0	0	2	0	2	2	0	4	1	7	1	1	9	0	2	0	0	2	1	17	18
08:15 AM	1	2	0	0	3	0	1	1	0	2	0	16	2	0	18	0	0	1	1	1	1	24	25
08:30 AM	0	4	0	0	4	2	1	0	0	3	0	6	0	0	6	0	2	1	0	3	0	16	16
08:45 AM	3	11	0	0	14	2	0	2	0	4	0	11	0	0	11	1	0	0	0	1	0	30	30
Total	4	19	0	0	23	4	4	5	0	13	1	40	3	1	44	1	4	2	1	7	2	87	89
Grand Total	12	68	4	3	84	13	8	18	1	39	2	115	5	1	122	3	13	4	2	20	7	265	272
Apprch %	14.3	81	4.8			33.3	20.5	46.2			1.6	94.3	4.1			15	65	20					
Total %	4.5	25.7	1.5		31.7	4.9	3	6.8		14.7	0.8	43.4	1.9		46	1.1	4.9	1.5		7.5	2.6	97.4	

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**2**	**6**	**2**	**10**	0	0	2	2	0	11	0	11	0	**2**	0	2	**25**
07:45 AM	0	4	0	4	**1**	0	**3**	**4**	0	3	0	3	**1**	1	**1**	**3**	14
08:00 AM	0	2	0	2	0	**2**	2	4	**1**	7	1	9	0	2	0	2	17
08:15 AM	1	2	0	3	0	1	1	2	0	**16**	**2**	**18**	0	0	1	1	24
Total Volume	3	14	2	19	1	3	8	12	1	37	3	41	1	5	2	8	80
% App. Total	15.8	73.7	10.5		8.3	25	66.7		2.4	90.2	7.3		12.5	62.5	25		
PHF	.375	.583	.250	.475	.250	.375	.667	.750	.250	.578	.375	.569	.250	.625	.500	.667	.800

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	**2**	**6**	**2**	**10**	0	0	2	2	0	11	0	11	0	**2**	0	2	
+15 mins.	0	4	0	4	**1**	0	**3**	**4**	0	3	0	3	**1**	1	**1**	**3**	
+30 mins.	0	2	0	2	0	**2**	2	4	**1**	7	1	9	0	2	0	2	
+45 mins.	1	2	0	3	0	1	1	2	0	**16**	**2**	**18**	0	0	1	1	
Total Volume	3	14	2	19	1	3	8	12	1	37	3	41	1	5	2	8	
% App. Total	15.8	73.7	10.5		8.3	25	66.7		2.4	90.2	7.3		12.5	62.5	25		
PHF	.375	.583	.250	.475	.250	.375	.667	.750	.250	.578	.375	.569	.250	.625	.500	.667	

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

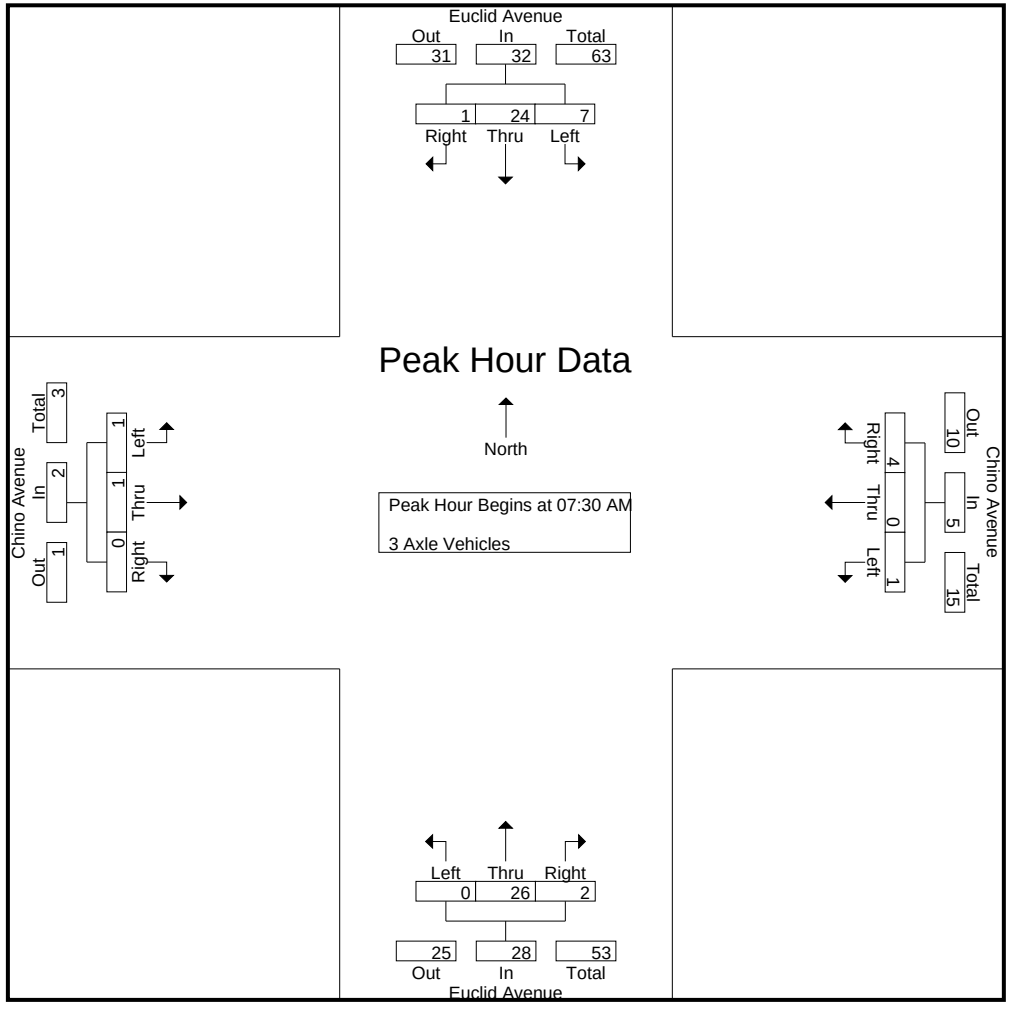
	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	4	6	1	1	11	1	0	1	0	2	0	6	0	0	6	0	0	0	0	0	1	19	20
06:15 AM	0	11	0	0	11	0	0	3	1	3	0	5	0	0	5	0	0	0	0	0	1	19	20
06:30 AM	2	3	0	0	5	2	0	0	0	2	0	9	0	0	9	0	0	0	0	0	0	16	16
06:45 AM	1	10	0	0	11	1	0	1	0	2	0	7	0	0	7	0	0	0	0	0	0	20	20
Total	7	30	1	1	38	4	0	5	1	9	0	27	0	0	27	0	0	0	0	0	2	74	76
07:00 AM	3	5	0	0	8	0	0	1	0	1	0	5	0	0	5	0	0	0	0	0	0	14	14
07:15 AM	0	1	0	0	1	1	0	1	0	2	0	8	0	0	8	0	0	0	0	0	0	11	11
07:30 AM	0	6	0	0	6	0	0	2	0	2	0	2	0	0	2	1	0	0	0	1	0	11	11
07:45 AM	1	6	0	0	7	1	0	1	0	2	0	4	0	0	4	0	0	0	0	0	0	13	13
Total	4	18	0	0	22	2	0	5	0	7	0	19	0	0	19	1	0	0	0	1	0	49	49
08:00 AM	4	7	0	0	11	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	19	19
08:15 AM	2	5	1	0	8	0	0	1	0	1	0	12	2	0	14	0	1	0	0	1	0	24	24
08:30 AM	0	5	0	0	5	0	0	2	1	2	0	9	3	0	12	0	0	0	0	0	1	19	20
08:45 AM	2	11	0	0	13	1	0	0	0	1	0	12	0	0	12	0	0	0	0	0	0	26	26
Total	8	28	1	0	37	1	0	3	1	4	0	41	5	0	46	0	1	0	0	1	1	88	89
Grand Total	19	76	2	1	97	7	0	13	2	20	0	87	5	0	92	1	1	0	0	2	3	211	214
Apprch %	19.6	78.4	2.1			35	0	65			0	94.6	5.4			50	50	0					
Total %	9	36	0.9		46	3.3	0	6.2		9.5	0	41.2	2.4		43.6	0.5	0.5	0		0.9	1.4	98.6	

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	6	0	6	0	0	**2**	**2**	0	2	0	2	**1**	0	0	**1**	11
07:45 AM	1	6	0	7	**1**	0	1	2	0	4	0	4	0	0	0	0	13
08:00 AM	**4**	**7**	0	**11**	0	0	0	0	0	8	0	8	0	0	0	0	19
08:15 AM	2	5	**1**	8	0	0	1	1	0	**12**	**2**	**14**	0	**1**	0	1	**24**
Total Volume	7	24	1	32	1	0	4	5	0	26	2	28	1	1	0	2	67
% App. Total	21.9	75	3.1		20	0	80		0	92.9	7.1		50	50	0		
PHF	.438	.857	.250	.727	.250	.000	.500	.625	.000	.542	.250	.500	.250	.250	.000	.500	.698

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	0	6	0	6	0	0	**2**	**2**	0	2	0	2	**1**	0	0	**1**	
+15 mins.	1	6	0	7	**1**	0	1	2	0	4	0	4	0	0	0	0	
+30 mins.	**4**	**7**	0	**11**	0	0	0	0	0	8	0	8	0	0	0	0	
+45 mins.	2	5	**1**	8	0	0	1	1	0	**12**	**2**	**14**	0	**1**	0	1	
Total Volume	7	24	1	32	1	0	4	5	0	26	2	28	1	1	0	2	
% App. Total	21.9	75	3.1		20	0	80		0	92.9	7.1		50	50	0		
PHF	.438	.857	.250	.727	.250	.000	.500	.625	.000	.542	.250	.500	.250	.250	.000	.500	

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

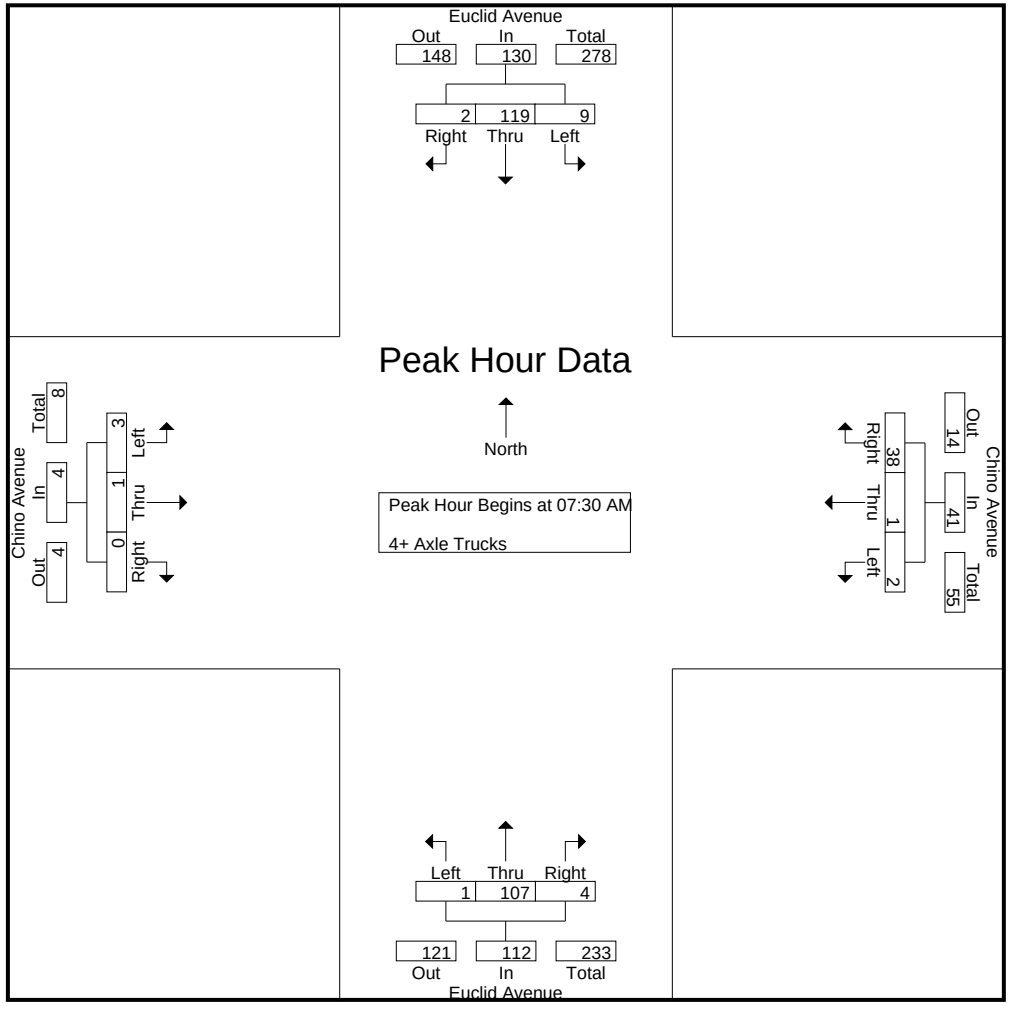
	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	2	24	0	0	26	0	0	6	3	6	0	25	0	0	25	1	0	0	0	1	3	58	61
06:15 AM	0	20	0	0	20	0	0	3	1	3	1	24	1	0	26	1	0	0	0	1	1	50	51
06:30 AM	0	14	0	0	14	0	0	3	0	3	0	33	0	0	33	0	0	0	0	0	0	50	50
06:45 AM	1	30	0	0	31	0	0	6	2	6	0	33	1	0	34	0	0	0	0	0	2	71	73
Total	3	88	0	0	91	0	0	18	6	18	1	115	2	0	118	2	0	0	0	2	6	229	235
07:00 AM	0	20	1	1	21	1	0	6	1	7	0	32	1	0	33	0	1	0	0	1	2	62	64
07:15 AM	1	27	1	1	29	1	0	14	0	15	2	32	0	0	34	1	0	0	0	1	1	79	80
07:30 AM	2	21	1	0	24	0	0	12	0	12	0	32	1	0	33	1	0	0	0	1	0	70	70
07:45 AM	3	30	0	0	33	0	1	8	0	9	1	31	0	0	32	0	0	0	0	0	0	74	74
Total	6	98	3	2	107	2	1	40	1	43	3	127	2	0	132	2	1	0	0	3	3	285	288
08:00 AM	2	35	0	0	37	1	0	9	0	10	0	19	2	1	21	1	1	0	0	2	1	70	71
08:15 AM	2	33	1	0	36	1	0	9	0	10	0	25	1	0	26	1	0	0	0	1	0	73	73
08:30 AM	1	26	0	0	27	1	2	3	0	6	0	18	1	0	19	1	1	1	1	3	1	55	56
08:45 AM	1	22	1	0	24	1	0	15	2	16	0	27	0	0	27	0	0	0	0	0	2	67	69
Total	6	116	2	0	124	4	2	36	2	42	0	89	4	1	93	3	2	1	1	6	4	265	269
Grand Total	15	302	5	2	322	6	3	94	9	103	4	331	8	1	343	7	3	1	1	11	13	779	792
Apprch %	4.7	93.8	1.6			5.8	2.9	91.3			1.2	96.5	2.3			63.6	27.3	9.1					
Total %	1.9	38.8	0.6		41.3	0.8	0.4	12.1		13.2	0.5	42.5	1		44	0.9	0.4	0.1		1.4	1.6	98.4	

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	2	21	**1**	24	0	0	**12**	**12**	0	**32**	1	**33**	**1**	0	0	1	70
07:45 AM	**3**	30	0	33	0	**1**	8	9	**1**	31	0	32	0	0	0	0	**74**
08:00 AM	2	**35**	0	**37**	**1**	0	9	10	0	19	**2**	21	1	**1**	0	**2**	70
08:15 AM	2	33	1	36	1	0	9	10	0	25	1	26	1	0	0	1	73
Total Volume	9	119	2	130	2	1	38	41	1	107	4	112	3	1	0	4	287
% App. Total	6.9	91.5	1.5		4.9	2.4	92.7		0.9	95.5	3.6		75	25	0		
PHF	.750	.850	.500	.878	.500	.250	.792	.854	.250	.836	.500	.848	.750	.250	.000	.500	.970

Counts Unlimited, Inc.
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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	2	21	**1**	24	0	0	**12**	**12**	0	**32**	1	**33**	**1**	0	0	1	
+15 mins.	**3**	30	0	33	0	**1**	8	9	**1**	31	0	32	0	0	0	0	
+30 mins.	2	**35**	0	**37**	**1**	0	9	10	0	19	**2**	21	1	**1**	0	**2**	
+45 mins.	2	33	1	36	1	0	9	10	0	25	1	26	1	0	0	1	
Total Volume	9	119	2	130	2	1	38	41	1	107	4	112	3	1	0	4	
% App. Total	6.9	91.5	1.5		4.9	2.4	92.7		0.9	95.5	3.6		75	25	0		
PHF	.750	.850	.500	.878	.500	.250	.792	.854	.250	.836	.500	.848	.750	.250	.000	.500	

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	17	171	8	4	196	13	34	11	0	58	13	184	41	18	238	12	81	10	1	103	23	595	618
04:15 PM	10	144	17	9	171	16	36	8	3	60	7	164	41	8	212	15	94	8	3	117	23	560	583
04:30 PM	19	182	15	7	216	12	30	13	2	55	3	188	46	16	237	13	110	5	3	128	28	636	664
04:45 PM	15	170	20	10	205	14	24	10	0	48	5	164	39	10	208	21	111	15	6	147	26	608	634
Total	61	667	60	30	788	55	124	42	5	221	28	700	167	52	895	61	396	38	13	495	100	2399	2499
05:00 PM	11	145	12	4	168	23	29	11	2	63	11	209	50	17	270	20	87	3	1	110	24	611	635
05:15 PM	7	166	15	7	188	23	36	10	2	69	6	201	49	24	256	18	99	14	7	131	40	644	684
05:30 PM	10	180	17	10	207	15	40	6	2	61	2	173	32	9	207	17	111	11	5	139	26	614	640
05:45 PM	9	191	9	3	209	20	29	6	2	55	4	184	31	8	219	16	82	10	4	108	17	591	608
Total	37	682	53	24	772	81	134	33	8	248	23	767	162	58	952	71	379	38	17	488	107	2460	2567
06:00 PM	7	127	12	6	146	14	19	4	3	37	7	171	26	5	204	13	57	7	4	77	18	464	482
06:15 PM	7	154	12	5	173	7	23	12	2	42	10	147	17	7	174	11	44	10	7	65	21	454	475
06:30 PM	10	129	13	6	152	5	19	5	3	29	5	126	19	6	150	16	29	5	1	50	16	381	397
06:45 PM	4	141	2	0	147	14	26	3	0	43	0	147	16	7	163	14	22	4	1	40	8	393	401
Total	28	551	39	17	618	40	87	24	8	151	22	591	78	25	691	54	152	26	13	232	63	1692	1755
Grand Total	126	1900	152	71	2178	176	345	99	21	620	73	2058	407	135	2538	186	927	102	43	1215	270	6551	6821
Apprch %	5.8	87.2	7			28.4	55.6	16			2.9	81.1	16			15.3	76.3	8.4					
Total %	1.9	29	2.3		33.2	2.7	5.3	1.5		9.5	1.1	31.4	6.2		38.7	2.8	14.2	1.6		18.5	4	96	
Passenger Vehicles	72	1568	147		1854	175	344	64		601	72	1707	386		2293	181	909	101		1234	0	0	5982
% Passenger Vehicles	57.1	82.5	96.7	94.4	82.4	99.4	99.7	64.6	85.7	93.8	98.6	82.9	94.8	94.8	85.8	97.3	98.1	99	100	98.1	0	0	87.7
Large 2 Axle Vehicles	6	47	2		56	1	0	6		7	1	59	14		80	4	17	1		22	0	0	165
% Large 2 Axle Vehicles	4.8	2.5	1.3	1.4	2.5	0.6	0	6.1	0	1.1	1.4	2.9	3.4	4.4	3	2.2	1.8	1	0	1.7	0	0	2.4
3 Axle Vehicles	9	52	0		61	0	1	8		10	0	61	5		66	0	0	0		0	0	0	137
% 3 Axle Vehicles	7.1	2.7	0	0	2.7	0	0.3	8.1	4.8	1.6	0	3	1.2	0	2.5	0	0	0	0	0	0	0	2
4+ Axle Trucks	39	233	3		278	0	0	21		23	0	231	2		234	1	1	0		2	0	0	537
% 4+ Axle Trucks	31	12.3	2	4.2	12.4	0	0	21.2	9.5	3.6	0	11.2	0.5	0.7	8.8	0.5	0.1	0	0	0.2	0	0	7.9

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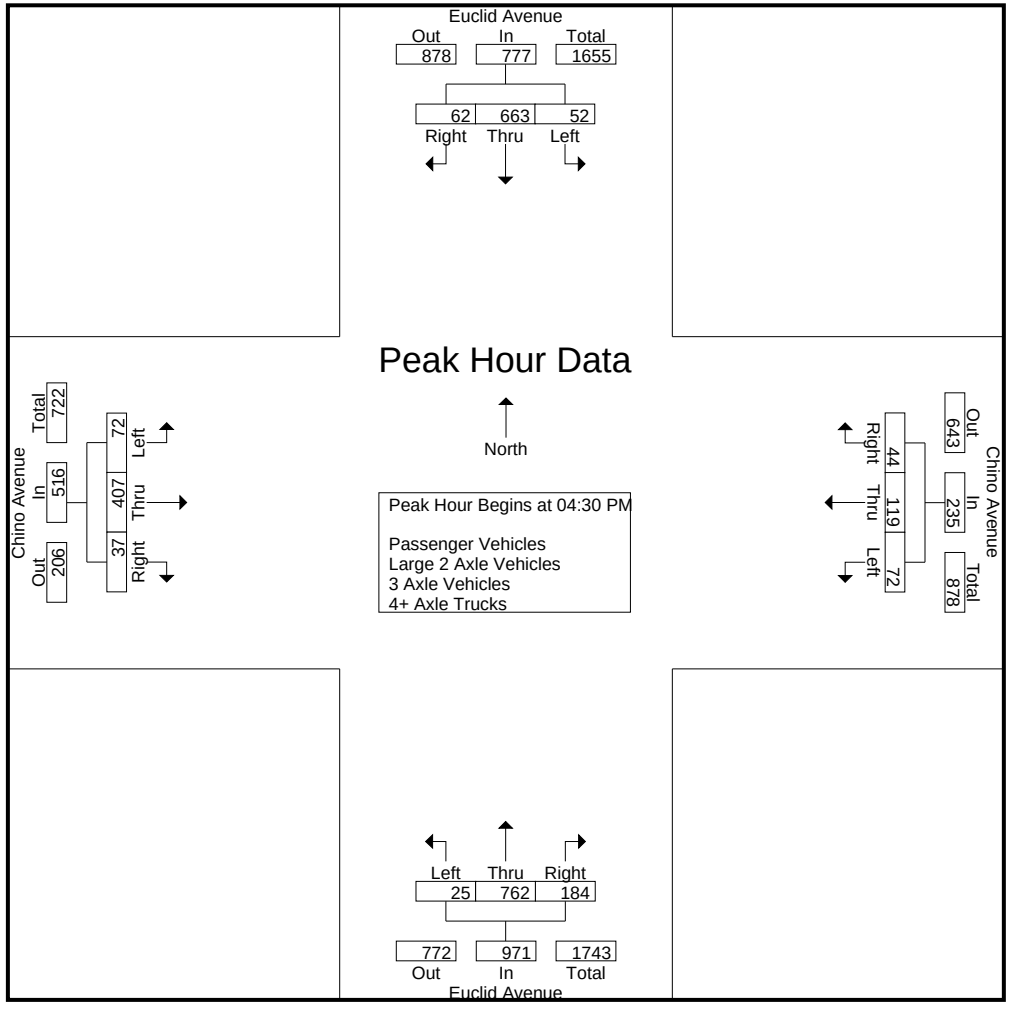
File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**19**	**182**	15	**216**	12	30	**13**	55	3	188	46	237	13	110	5	128	636
04:45 PM	15	170	**20**	205	14	24	10	48	5	164	39	208	**21**	**111**	**15**	**147**	608
05:00 PM	11	145	12	168	**23**	29	11	63	**11**	**209**	**50**	**270**	20	87	3	110	611
05:15 PM	7	166	15	188	23	**36**	10	**69**	6	201	49	256	18	99	14	131	**644**
Total Volume	52	663	62	777	72	119	44	235	25	762	184	971	72	407	37	516	2499
% App. Total	6.7	85.3	8		30.6	50.6	18.7		2.6	78.5	18.9		14	78.9	7.2		
PHF	.684	.911	.775	.899	.783	.826	.846	.851	.568	.911	.920	.899	.857	.917	.617	.878	.970

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File Name : 14_CHN_Eu_Chino PM
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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:00 PM				05:00 PM				04:30 PM				04:45 PM				
+0 mins.	17	171	8	196	**23**	29	**11**	63	3	188	46	237	**21**	**111**	**15**	**147**	
+15 mins.	10	144	17	171	23	36	10	**69**	5	164	39	208	20	87	3	110	
+30 mins.	**19**	**182**	15	**216**	15	**40**	6	61	**11**	**209**	**50**	**270**	18	99	14	131	
+45 mins.	15	170	**20**	205	20	29	6	55	6	201	49	256	17	111	11	139	
Total Volume	61	667	60	788	81	134	33	248	25	762	184	971	76	408	43	527	
% App. Total	7.7	84.6	7.6		32.7	54	13.3		2.6	78.5	18.9		14.4	77.4	8.2		
PHF	.803	.916	.750	.912	.880	.838	.750	.899	.568	.911	.920	.899	.905	.919	.717	.896	

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File Name : 14_CHN_Eu_Chino PM
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Groups Printed- Passenger Vehicles

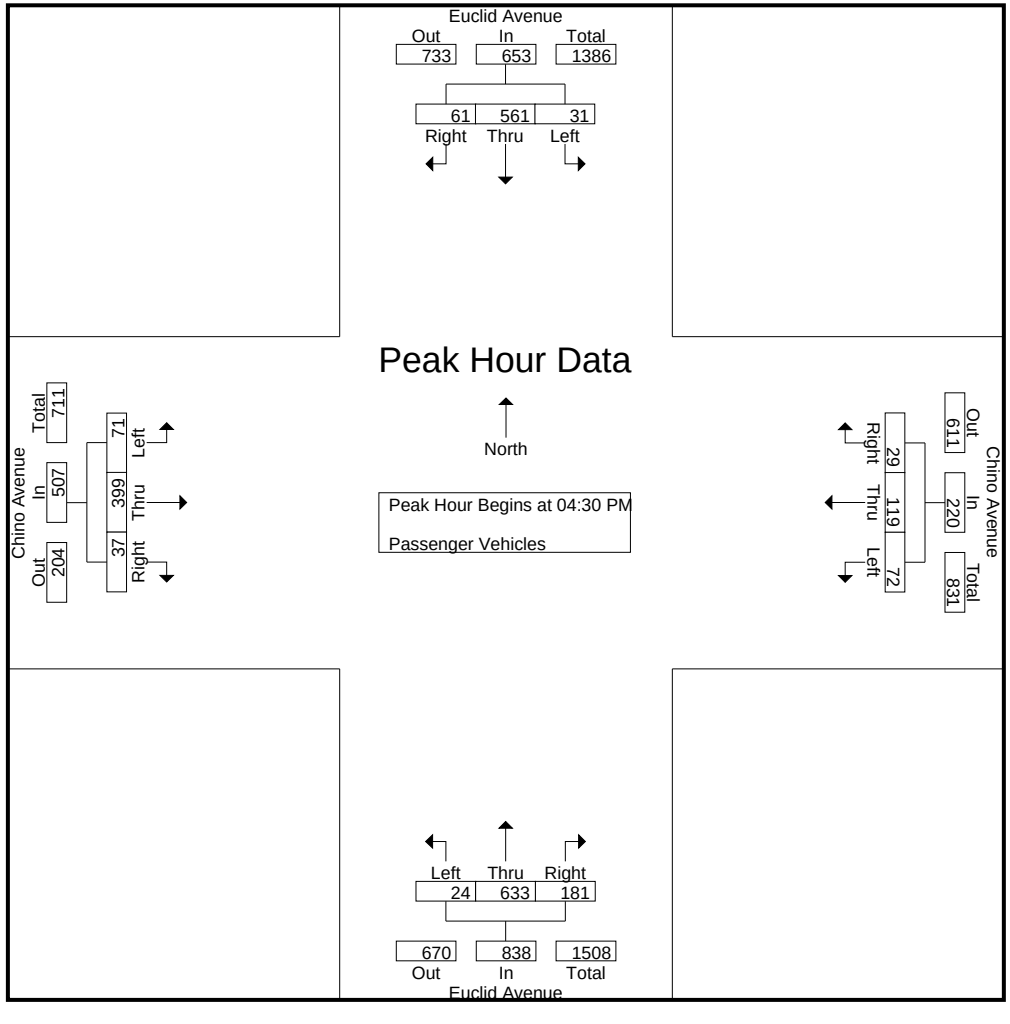
	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	11	138	6	3	155	13	34	5	0	52	13	156	39	16	208	11	81	9	1	101	20	516	536
04:15 PM	3	120	16	8	139	16	36	6	3	58	7	133	38	8	178	14	92	8	3	114	22	489	511
04:30 PM	13	151	14	6	178	12	30	9	2	51	3	157	44	14	204	13	106	5	3	124	25	557	582
04:45 PM	5	141	20	10	166	14	24	4	0	42	5	134	39	10	178	21	108	15	6	144	26	530	556
Total	32	550	56	27	638	55	124	24	5	203	28	580	160	48	768	59	387	37	13	483	93	2092	2185
05:00 PM	7	124	12	4	143	23	29	8	2	60	10	182	50	17	242	20	87	3	1	110	24	555	579
05:15 PM	6	145	15	7	166	23	36	8	2	67	6	160	48	24	214	17	98	14	7	129	40	576	616
05:30 PM	6	151	17	10	174	15	39	5	2	59	2	143	29	8	174	17	108	11	5	136	25	543	568
05:45 PM	8	168	9	3	185	20	29	5	2	54	4	156	30	8	190	16	80	10	4	106	17	535	552
Total	27	588	53	24	668	81	133	26	8	240	22	641	157	57	820	70	373	38	17	481	106	2209	2315
06:00 PM	5	109	12	6	126	13	19	3	3	35	7	143	25	5	175	13	57	7	4	77	18	413	431
06:15 PM	3	115	11	4	129	7	23	6	0	36	10	126	16	7	152	9	43	10	7	62	18	379	397
06:30 PM	3	95	13	6	111	5	19	3	2	27	5	102	18	6	125	16	27	5	1	48	15	311	326
06:45 PM	2	111	2	0	115	14	26	2	0	42	0	115	10	5	125	14	22	4	1	40	6	322	328
Total	13	430	38	16	481	39	87	14	5	140	22	486	69	23	577	52	149	26	13	227	57	1425	1482
Grand Total	72	1568	147	67	1787	175	344	64	18	583	72	1707	386	128	2165	181	909	101	43	1191	256	5726	5982
Apprch %	4	87.7	8.2			30	59	11			3.3	78.8	17.8			15.2	76.3	8.5					
Total %	1.3	27.4	2.6		31.2	3.1	6	1.1		10.2	1.3	29.8	6.7		37.8	3.2	15.9	1.8		20.8	4.3	95.7	

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**13**	**151**	14	**178**	12	30	**9**	51	3	157	44	204	13	106	5	124	557
04:45 PM	5	141	**20**	166	14	24	4	42	5	134	39	178	**21**	**108**	**15**	**144**	530
05:00 PM	7	124	12	143	**23**	29	8	60	**10**	**182**	**50**	**242**	20	87	3	110	555
05:15 PM	6	145	15	166	23	**36**	8	**67**	6	160	48	214	17	98	14	129	**576**
Total Volume	31	561	61	653	72	119	29	220	24	633	181	838	71	399	37	507	2218
% App. Total	4.7	85.9	9.3		32.7	54.1	13.2		2.9	75.5	21.6		14	78.7	7.3		
PHF	.596	.929	.763	.917	.783	.826	.806	.821	.600	.870	.905	.866	.845	.924	.617	.880	.963

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City of Chino
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File Name : 14_CHN_Eu_Chino PM
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Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	**13**	**151**	14	**178**	12	30	**9**	51	3	157	44	204	13	106	5	124	
+15 mins.	5	141	**20**	166	14	24	4	42	5	134	39	178	**21**	**108**	**15**	**144**	
+30 mins.	7	124	12	143	**23**	29	8	60	**10**	**182**	**50**	**242**	20	87	3	110	
+45 mins.	6	145	15	166	23	**36**	8	**67**	6	160	48	214	17	98	14	129	
Total Volume	31	561	61	653	72	119	29	220	24	633	181	838	71	399	37	507	
% App. Total	4.7	85.9	9.3		32.7	54.1	13.2		2.9	75.5	21.6		14	78.7	7.3		
PHF	.596	.929	.763	.917	.783	.826	.806	.821	.600	.870	.905	.866	.845	.924	.617	.880	

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File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
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Groups Printed- Large 2 Axle Vehicles

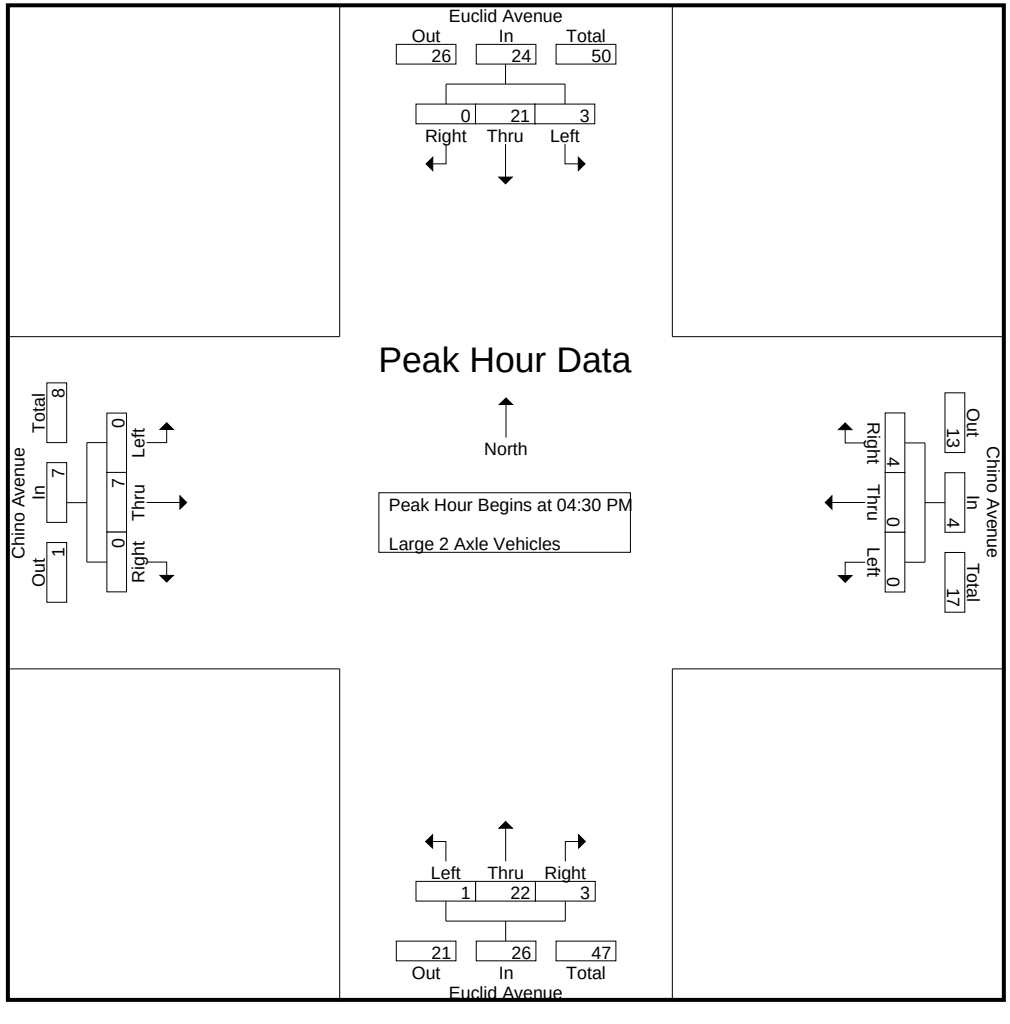
	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	5	1	0	6	0	0	1	0	1	0	5	2	2	7	1	0	1	0	2	2	16	18
04:15 PM	2	4	0	0	6	0	0	0	0	0	0	8	2	0	10	1	2	0	0	3	0	19	19
04:30 PM	1	7	0	0	8	0	0	0	0	0	0	7	2	2	9	0	3	0	0	3	2	20	22
04:45 PM	2	4	0	0	6	0	0	2	0	2	0	6	0	0	6	0	3	0	0	3	0	17	17
Total	5	20	1	0	26	0	0	3	0	3	0	26	6	4	32	2	8	1	0	11	4	72	76
05:00 PM	0	6	0	0	6	0	0	1	0	1	1	2	0	0	3	0	0	0	0	0	0	10	10
05:15 PM	0	4	0	0	4	0	0	1	0	1	0	7	1	0	8	0	1	0	0	1	0	14	14
05:30 PM	0	2	0	0	2	0	0	1	0	1	0	3	2	1	5	0	3	0	0	3	1	11	12
05:45 PM	0	5	0	0	5	0	0	0	0	0	0	8	1	0	9	0	2	0	0	2	0	16	16
Total	0	17	0	0	17	0	0	3	0	3	1	20	4	1	25	0	6	0	0	6	1	51	52
06:00 PM	1	1	0	0	2	1	0	0	0	1	0	4	0	0	4	0	0	0	0	0	0	7	7
06:15 PM	0	7	1	1	8	0	0	0	0	0	0	5	0	0	5	2	1	0	0	3	1	16	17
06:30 PM	0	1	0	0	1	0	0	0	0	0	0	1	1	0	2	0	2	0	0	2	0	5	5
06:45 PM	0	1	0	0	1	0	0	0	0	0	0	3	3	1	6	0	0	0	0	0	1	7	8
Total	1	10	1	1	12	1	0	0	0	1	0	13	4	1	17	2	3	0	0	5	2	35	37
Grand Total	6	47	2	1	55	1	0	6	0	7	1	59	14	6	74	4	17	1	0	22	7	158	165
Apprch %	10.9	85.5	3.6			14.3	0	85.7			1.4	79.7	18.9			18.2	77.3	4.5					
Total %	3.8	29.7	1.3		34.8	0.6	0	3.8		4.4	0.6	37.3	8.9		46.8	2.5	10.8	0.6		13.9	4.2	95.8	

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	1	**7**	0	**8**	0	0	0	0	0	**7**	**2**	**9**	0	**3**	0	**3**	**20**
04:45 PM	**2**	4	0	6	0	0	**2**	**2**	0	6	0	6	0	3	0	3	17
05:00 PM	0	6	0	6	0	0	1	1	**1**	2	0	3	0	0	0	0	10
05:15 PM	0	4	0	4	0	0	1	1	0	7	1	8	0	1	0	1	14
Total Volume	3	21	0	24	0	0	4	4	1	22	3	26	0	7	0	7	61
% App. Total	12.5	87.5	0		0	0	100		3.8	84.6	11.5		0	100	0		
PHF	.375	.750	.000	.750	.000	.000	.500	.500	.250	.786	.375	.722	.000	.583	.000	.583	.763

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	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	1	**7**	0	**8**	0	0	0	0	0	**7**	**2**	**9**	0	**3**	0	**3**	
+15 mins.	**2**	4	0	6	0	0	**2**	**2**	0	6	0	6	0	3	0	3	
+30 mins.	0	6	0	6	0	0	1	1	**1**	2	0	3	0	0	0	0	
+45 mins.	0	4	0	4	0	0	1	1	0	7	1	8	0	1	0	1	
Total Volume	3	21	0	24	0	0	4	4	1	22	3	26	0	7	0	7	
% App. Total	12.5	87.5	0		0	0	100		3.8	84.6	11.5		0	100	0		
PHF	.375	.750	.000	.750	.000	.000	.500	.500	.250	.786	.375	.722	.000	.583	.000	.583	

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Corona, CA 92878
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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

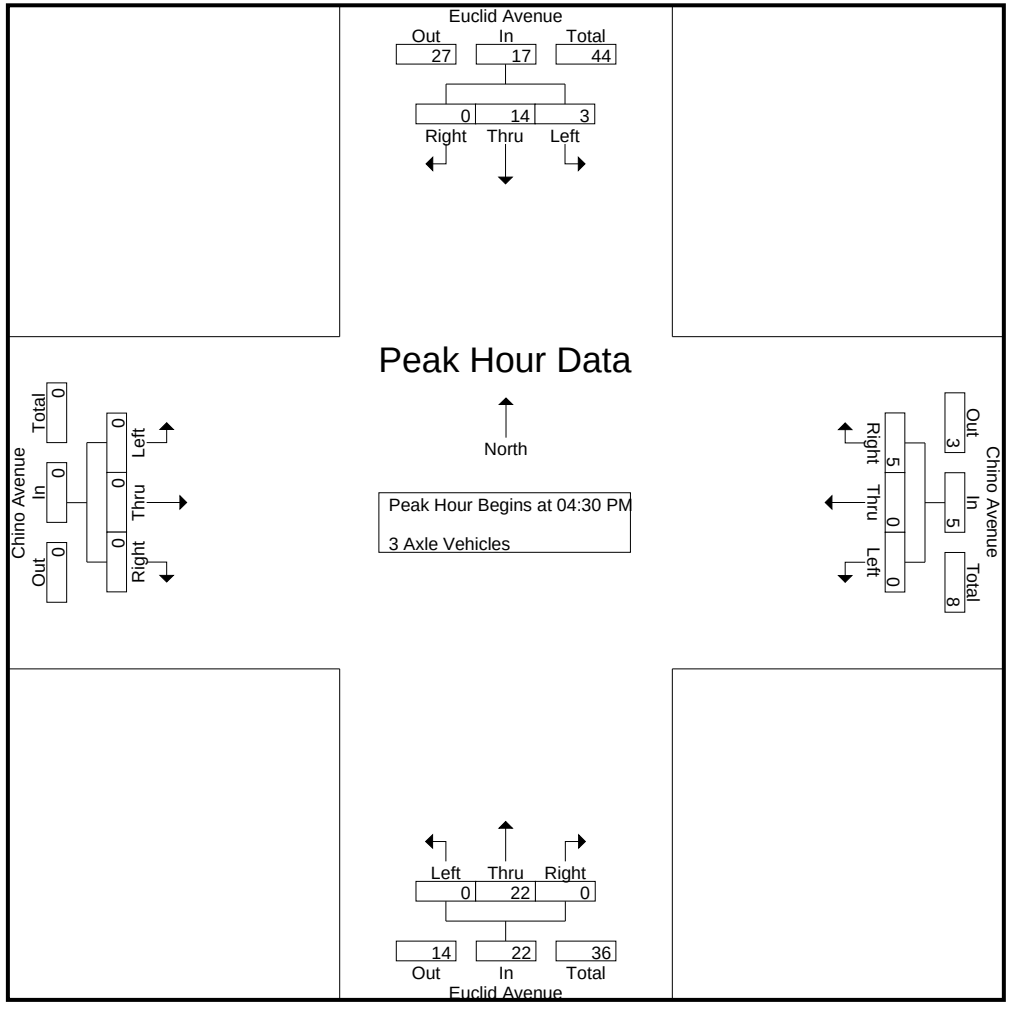
	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	1	7	0	0	8	0	0	1	0	1	0	5	0	0	5	0	0	0	0	0	0	14	14
04:15 PM	2	5	0	0	7	0	0	1	0	1	0	9	1	0	10	0	0	0	0	0	0	18	18
04:30 PM	1	3	0	0	4	0	0	0	0	0	0	8	0	0	8	0	0	0	0	0	0	12	12
04:45 PM	2	4	0	0	6	0	0	4	0	4	0	6	0	0	6	0	0	0	0	0	0	16	16
Total	6	19	0	0	25	0	0	6	0	6	0	28	1	0	29	0	0	0	0	0	0	60	60
05:00 PM	0	4	0	0	4	0	0	1	0	1	0	5	0	0	5	0	0	0	0	0	0	10	10
05:15 PM	0	3	0	0	3	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6	6
05:30 PM	1	4	0	0	5	0	1	0	0	1	0	5	1	0	6	0	0	0	0	0	0	12	12
05:45 PM	0	3	0	0	3	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	6	6
Total	1	14	0	0	15	0	1	1	0	2	0	16	1	0	17	0	0	0	0	0	0	34	34
06:00 PM	0	4	0	0	4	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	7	7
06:15 PM	0	8	0	0	8	0	0	0	0	0	0	6	1	0	7	0	0	0	0	0	0	15	15
06:30 PM	1	4	0	0	5	0	0	1	1	1	0	1	0	0	1	0	0	0	0	0	1	7	8
06:45 PM	1	3	0	0	4	0	0	0	0	0	0	7	2	0	9	0	0	0	0	0	0	13	13
Total	2	19	0	0	21	0	0	1	1	1	0	17	3	0	20	0	0	0	0	0	1	42	43
Grand Total	9	52	0	0	61	0	1	8	1	9	0	61	5	0	66	0	0	0	0	0	1	136	137
Apprch %	14.8	85.2	0			0	11.1	88.9			0	92.4	7.6			0	0	0					
Total %	6.6	38.2	0		44.9	0	0.7	5.9		6.6	0	44.9	3.7		48.5	0	0	0		0	0.7	99.3	

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	1	3	0	4	0	0	0	0	0	**8**	0	**8**	0	0	0	0	12
04:45 PM	**2**	**4**	0	**6**	0	0	**4**	**4**	0	6	0	6	0	0	0	0	**16**
05:00 PM	0	4	0	4	0	0	1	1	0	5	0	5	0	0	0	0	10
05:15 PM	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	6
Total Volume	3	14	0	17	0	0	5	5	0	22	0	22	0	0	0	0	44
% App. Total	17.6	82.4	0		0	0	100		0	100	0		0	0	0		
PHF	.375	.875	.000	.708	.000	.000	.313	.313	.000	.688	.000	.688	.000	.000	.000	.000	.688

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	1	3	0	4	0	0	0	0	0	**8**	0	**8**	0	0	0	0	
+15 mins.	**2**	**4**	0	**6**	0	0	**4**	**4**	0	6	0	6	0	0	0	0	
+30 mins.	0	4	0	4	0	0	1	1	0	5	0	5	0	0	0	0	
+45 mins.	0	3	0	3	0	0	0	0	0	3	0	3	0	0	0	0	
Total Volume	3	14	0	17	0	0	5	5	0	22	0	22	0	0	0	0	
% App. Total	17.6	82.4	0		0	0	100		0	100	0		0	0	0		
PHF	.375	.875	.000	.708	.000	.000	.313	.313	.000	.688	.000	.688	.000	.000	.000	.000	

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

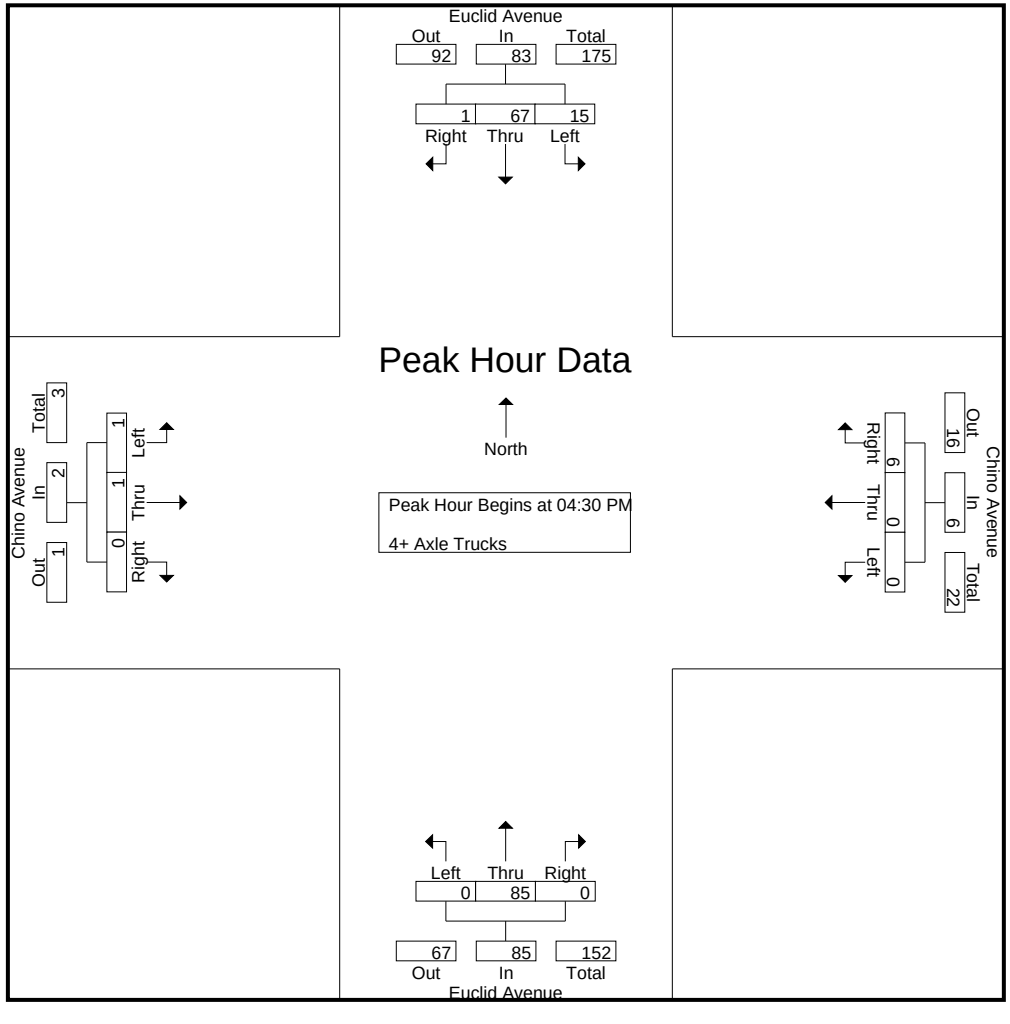
	Euclid Avenue Southbound					Chino Avenue Westbound					Euclid Avenue Northbound					Chino Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	5	21	1	1	27	0	0	4	0	4	0	18	0	0	18	0	0	0	0	0	1	49	50
04:15 PM	3	15	1	1	19	0	0	1	0	1	0	14	0	0	14	0	0	0	0	0	1	34	35
04:30 PM	4	21	1	1	26	0	0	4	0	4	0	16	0	0	16	0	1	0	0	1	1	47	48
04:45 PM	6	21	0	0	27	0	0	0	0	0	0	18	0	0	18	0	0	0	0	0	0	45	45
Total	18	78	3	3	99	0	0	9	0	9	0	66	0	0	66	0	1	0	0	1	3	175	178
05:00 PM	4	11	0	0	15	0	0	1	0	1	0	20	0	0	20	0	0	0	0	0	0	36	36
05:15 PM	1	14	0	0	15	0	0	1	0	1	0	31	0	0	31	1	0	0	0	1	0	48	48
05:30 PM	3	23	0	0	26	0	0	0	0	0	0	22	0	0	22	0	0	0	0	0	0	48	48
05:45 PM	1	15	0	0	16	0	0	1	0	1	0	17	0	0	17	0	0	0	0	0	0	34	34
Total	9	63	0	0	72	0	0	3	0	3	0	90	0	0	90	1	0	0	0	1	0	166	166
06:00 PM	1	13	0	0	14	0	0	1	0	1	0	21	1	0	22	0	0	0	0	0	0	37	37
06:15 PM	4	24	0	0	28	0	0	6	2	6	0	10	0	0	10	0	0	0	0	0	2	44	46
06:30 PM	6	29	0	0	35	0	0	1	0	1	0	22	0	0	22	0	0	0	0	0	0	58	58
06:45 PM	1	26	0	0	27	0	0	1	0	1	0	22	1	1	23	0	0	0	0	0	1	51	52
Total	12	92	0	0	104	0	0	9	2	9	0	75	2	1	77	0	0	0	0	0	3	190	193
Grand Total	39	233	3	3	275	0	0	21	2	21	0	231	2	1	233	1	1	0	0	2	6	531	537
Apprch %	14.2	84.7	1.1			0	0	100			0	99.1	0.9			50	50	0					
Total %	7.3	43.9	0.6		51.8	0	0	4		4	0	43.5	0.4		43.9	0.2	0.2	0		0.4	1.1	98.9	

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	4	**21**	**1**	26	0	0	**4**	**4**	0	16	0	16	0	**1**	0	**1**	47
04:45 PM	**6**	21	0	**27**	0	0	0	0	0	18	0	18	0	0	0	0	45
05:00 PM	4	11	0	15	0	0	1	1	0	20	0	20	0	0	0	0	36
05:15 PM	1	14	0	15	0	0	1	1	0	**31**	0	**31**	**1**	0	0	1	**48**
Total Volume	15	67	1	83	0	0	6	6	0	85	0	85	1	1	0	2	176
% App. Total	18.1	80.7	1.2		0	0	100		0	100	0		50	50	0		
PHF	.625	.798	.250	.769	.000	.000	.375	.375	.000	.685	.000	.685	.250	.250	.000	.500	.917

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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: Chino Avenue
Weather: Clear

File Name : 14_CHN_Eu_Chino PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Chino Avenue Westbound				Euclid Avenue Northbound				Chino Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	4	**21**	**1**	26	0	0	**4**	**4**	0	16	0	16	0	**1**	0	**1**	
+15 mins.	**6**	21	0	**27**	0	0	0	0	0	18	0	18	0	0	0	0	
+30 mins.	4	11	0	15	0	0	1	1	0	20	0	20	0	0	0	0	
+45 mins.	1	14	0	15	0	0	1	1	0	**31**	0	**31**	**1**	0	0	1	
Total Volume	15	67	1	83	0	0	6	6	0	85	0	85	1	1	0	2	
% App. Total	18.1	80.7	1.2		0	0	100		0	100	0		50	50	0		
PHF	.625	.798	.250	.769	.000	.000	.375	.375	.000	.685	.000	.685	.250	.250	.000	.500	

Location: Chino
N/S: Euclid Avenue
E/W: Chino Avenue

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg Euclid Avenue	East Leg Chino Avenue	South Leg Euclid Avenue	West Leg Chino Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	0	0
7:15 AM	0	0	1	0	1
7:30 AM	0	0	1	0	1
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	1	1
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	0	2	1	3

	North Leg Euclid Avenue	East Leg Chino Avenue	South Leg Euclid Avenue	West Leg Chino Avenue	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	1	1
4:15 PM	0	0	1	0	1
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
6:30 PM	0	0	2	3	5
6:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	3	4	7

Location: Chino
N/S: Euclid Avenue
E/W: Chino Avenue

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound Euclid Avenue			Westbound Chino Avenue			Northbound Euclid Avenue			Eastbound Chino Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	1	0	0	1	0	0	0	0	0	0	0	2
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	1	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	3	0	0	2	0	0	0	0	0	0	1	6

	Southbound Euclid Avenue			Westbound Chino Avenue			Northbound Euclid Avenue			Eastbound Chino Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
6:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	1	0	0	1	0	0	2	0	0	0	0	4

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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	7	163	12	2	182	8	9	8	0	25	7	78	5	0	90	12	9	5	1	26	3	323	326
06:15 AM	6	251	15	4	272	6	8	19	5	33	0	80	3	1	83	20	7	13	7	40	17	428	445
06:30 AM	5	232	22	9	259	11	17	13	7	41	5	85	3	1	93	16	10	14	9	40	26	433	459
06:45 AM	6	210	43	20	259	16	29	13	5	58	10	105	3	2	118	21	9	15	6	45	33	480	513
Total	24	856	92	35	972	41	63	53	17	157	22	348	14	4	384	69	35	47	23	151	79	1664	1743
07:00 AM	8	154	30	8	192	3	9	5	1	17	6	116	11	0	133	28	10	12	6	50	15	392	407
07:15 AM	5	153	25	10	183	0	2	2	2	4	12	140	3	0	155	36	14	8	7	58	19	400	419
07:30 AM	7	187	26	10	220	0	1	0	0	1	9	140	4	0	153	34	13	14	9	61	19	435	454
07:45 AM	6	174	30	9	210	1	2	0	0	3	15	147	4	0	166	35	7	15	8	57	17	436	453
Total	26	668	111	37	805	4	14	7	3	25	42	543	22	0	607	133	44	49	30	226	70	1663	1733
08:00 AM	10	208	31	7	249	1	0	3	2	4	17	128	9	0	154	28	15	20	9	63	18	470	488
08:15 AM	8	180	38	10	226	0	0	2	1	2	18	130	5	0	153	45	16	20	10	81	21	462	483
08:30 AM	6	190	21	8	217	2	2	1	1	5	16	111	3	1	130	33	16	19	13	68	23	420	443
08:45 AM	10	175	18	4	203	0	1	0	0	1	16	143	5	1	164	25	11	9	5	45	10	413	423
Total	34	753	108	29	895	3	3	6	4	12	67	512	22	2	601	131	58	68	37	257	72	1765	1837
Grand Total	84	2277	311	101	2672	48	80	66	24	194	131	1403	58	6	1592	333	137	164	90	634	221	5092	5313
Apprch %	3.1	85.2	11.6			24.7	41.2	34			8.2	88.1	3.6			52.5	21.6	25.9					
Total %	1.6	44.7	6.1		52.5	0.9	1.6	1.3		3.8	2.6	27.6	1.1		31.3	6.5	2.7	3.2		12.5	4.2	95.8	
Passenger Vehicles	48	1793	301		2239	20	74	11		111	126	948	31		1110	304	135	154		678	0	0	4138
% Passenger Vehicles	57.1	78.7	96.8	96	80.7	41.7	92.5	16.7	25	50.9	96.2	67.6	53.4	83.3	69.5	91.3	98.5	93.9	94.4	93.6	0	0	77.9
Large 2 Axle Vehicles	6	113	9		132	12	5	5		23	4	101	12		117	22	2	6		33	0	0	305
% Large 2 Axle Vehicles	7.1	5	2.9	4	4.8	25	6.2	7.6	4.2	10.6	3.1	7.2	20.7	0	7.3	6.6	1.5	3.7	3.3	4.6	0	0	5.7
3 Axle Vehicles	6	77	0		83	6	0	10		22	0	79	9		88	4	0	2		8	0	0	201
% 3 Axle Vehicles	7.1	3.4	0	0	3	12.5	0	15.2	25	10.1	0	5.6	15.5	0	5.5	1.2	0	1.2	2.2	1.1	0	0	3.8
4+ Axle Trucks	24	294	1		319	10	1	40		62	1	275	6		283	3	0	2		5	0	0	669
% 4+ Axle Trucks	28.6	12.9	0.3	0	11.5	20.8	1.2	60.6	45.8	28.4	0.8	19.6	10.3	16.7	17.7	0.9	0	1.2	0	0.7	0	0	12.6

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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

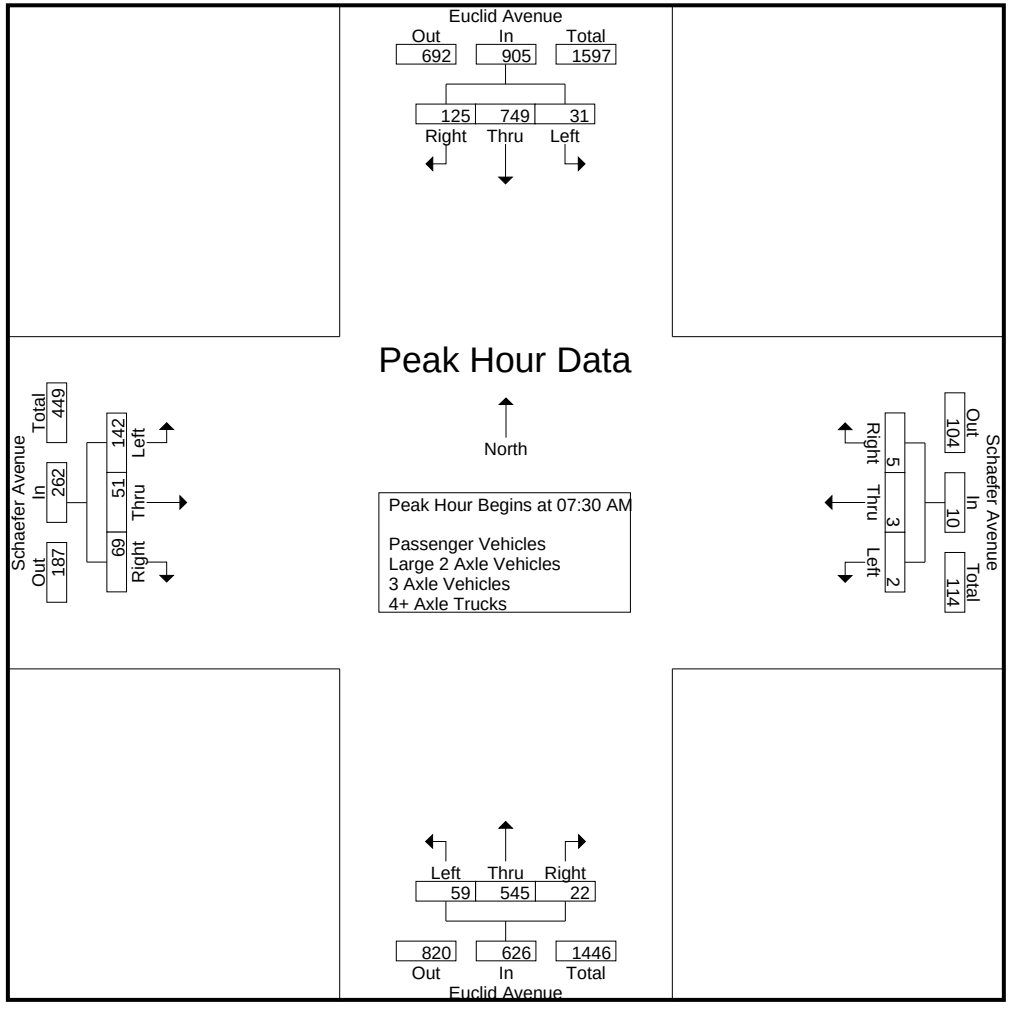
File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	7	187	26	220	0	1	0	1	9	140	4	153	34	13	14	61	435
07:45 AM	6	174	30	210	**1**	**2**	0	3	15	**147**	4	**166**	35	7	15	57	436
08:00 AM	**10**	**208**	31	**249**	1	0	**3**	**4**	17	128	**9**	154	28	15	**20**	63	**470**
08:15 AM	8	180	**38**	226	0	0	2	2	**18**	130	5	153	**45**	**16**	20	**81**	462
Total Volume	31	749	125	905	2	3	5	10	59	545	22	626	142	51	69	262	1803
% App. Total	3.4	82.8	13.8		20	30	50		9.4	87.1	3.5		54.2	19.5	26.3		
PHF	.775	.900	.822	.909	.500	.375	.417	.625	.819	.927	.611	.943	.789	.797	.863	.809	.959

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File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022
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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	06:15 AM				06:00 AM				07:15 AM				07:45 AM				
+0 mins.	6	**251**	15	**272**	8	9	8	25	12	140	3	155	35	7	15	57	
+15 mins.	5	232	22	259	6	8	**19**	33	9	140	4	153	28	15	**20**	63	
+30 mins.	6	210	**43**	259	11	17	13	41	15	**147**	4	**166**	**45**	**16**	20	**81**	
+45 mins.	**8**	154	30	192	**16**	**29**	13	**58**	**17**	128	**9**	154	33	16	19	68	
Total Volume	25	847	110	982	41	63	53	157	53	555	20	628	141	54	74	269	
% App. Total	2.5	86.3	11.2		26.1	40.1	33.8		8.4	88.4	3.2		52.4	20.1	27.5		
PHF	.781	.844	.640	.903	.641	.543	.697	.677	.779	.944	.556	.946	.783	.844	.925	.830	

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File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- Passenger Vehicles

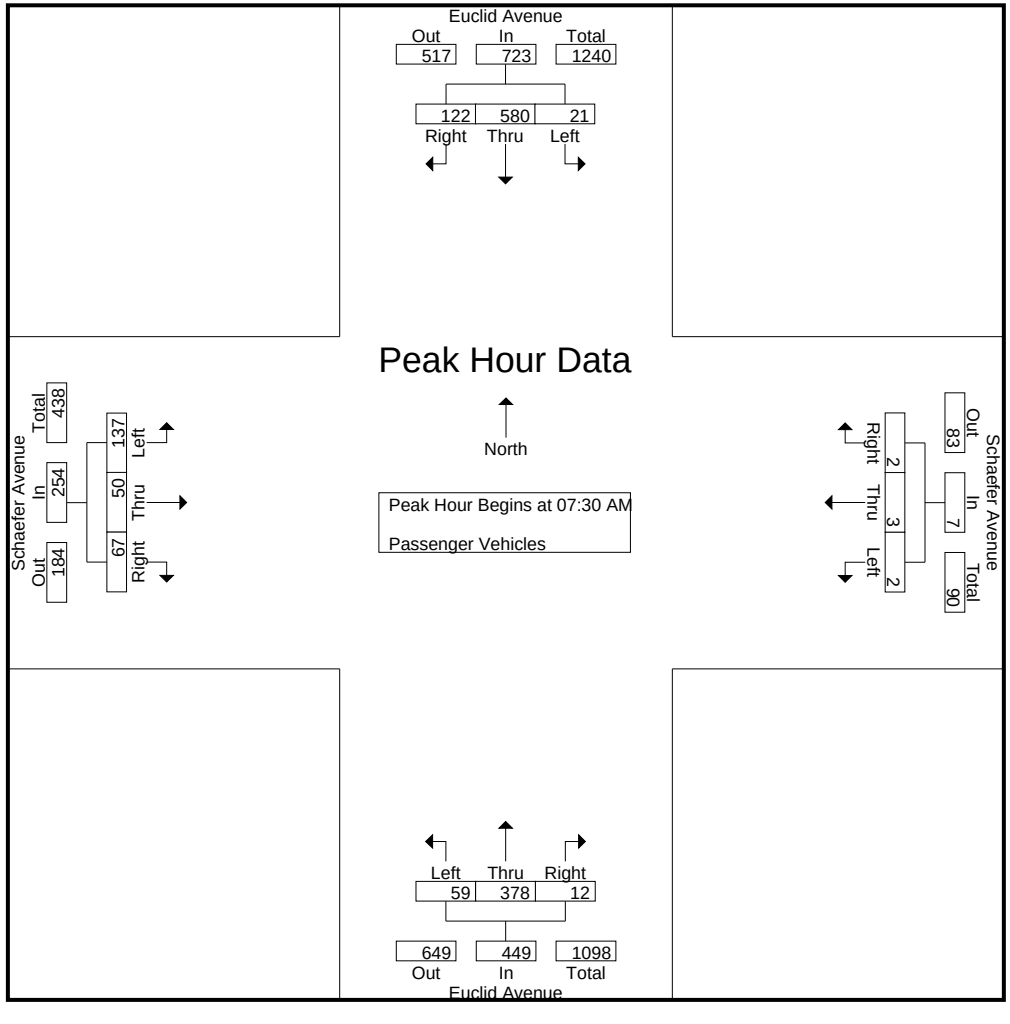
	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	5	136	12	2	153	3	8	0	0	11	7	56	3	0	66	10	9	5	1	24	3	254	257
06:15 AM	1	207	15	4	223	2	8	4	0	14	0	48	0	0	48	15	7	12	7	34	11	319	330
06:30 AM	2	200	21	9	223	5	15	3	3	23	4	54	2	1	60	13	10	14	9	37	22	343	365
06:45 AM	4	164	41	18	209	4	29	1	1	34	9	69	2	2	80	19	9	12	5	40	26	363	389
Total	12	707	89	33	808	14	60	8	4	82	20	227	7	3	254	57	35	43	22	135	62	1279	1341
07:00 AM	7	117	29	8	153	2	8	0	0	10	6	75	5	0	86	25	10	11	5	46	13	295	308
07:15 AM	1	113	24	10	138	0	1	0	0	1	12	95	1	0	108	33	13	7	6	53	16	300	316
07:30 AM	5	149	26	10	180	0	1	0	0	1	9	94	2	0	105	34	12	14	9	60	19	346	365
07:45 AM	6	134	29	8	169	1	2	0	0	3	15	109	3	0	127	33	7	15	8	55	16	354	370
Total	19	513	108	36	640	3	12	0	0	15	42	373	11	0	426	125	42	47	28	214	64	1295	1359
08:00 AM	5	158	29	6	192	1	0	1	1	2	17	92	4	0	113	26	15	19	8	60	15	367	382
08:15 AM	5	139	38	10	182	0	0	1	0	1	18	83	3	0	104	44	16	19	10	79	20	366	386
08:30 AM	2	147	19	8	168	2	2	1	1	5	15	76	2	1	93	30	16	18	12	64	22	330	352
08:45 AM	5	129	18	4	152	0	0	0	0	0	14	97	4	1	115	22	11	8	5	41	10	308	318
Total	17	573	104	28	694	3	2	3	2	8	64	348	13	2	425	122	58	64	35	244	67	1371	1438
Grand Total	48	1793	301	97	2142	20	74	11	6	105	126	948	31	5	1105	304	135	154	85	593	193	3945	4138
Apprch %	2.2	83.7	14.1			19	70.5	10.5			11.4	85.8	2.8			51.3	22.8	26					
Total %	1.2	45.4	7.6		54.3	0.5	1.9	0.3		2.7	3.2	24	0.8		28	7.7	3.4	3.9		15	4.7	95.3	

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	5	149	26	180	0	1	0	1	9	94	2	105	34	12	14	60	346
07:45 AM	**6**	134	29	169	**1**	**2**	0	**3**	15	**109**	3	**127**	33	7	15	55	354
08:00 AM	5	**158**	29	**192**	1	0	**1**	2	17	92	**4**	113	26	15	**19**	60	**367**
08:15 AM	5	139	**38**	182	0	0	1	1	**18**	83	3	104	**44**	**16**	19	**79**	366
Total Volume	21	580	122	723	2	3	2	7	59	378	12	449	137	50	67	254	1433
% App. Total	2.9	80.2	16.9		28.6	42.9	28.6		13.1	84.2	2.7		53.9	19.7	26.4		
PHF	.875	.918	.803	.941	.500	.375	.500	.583	.819	.867	.750	.884	.778	.781	.882	.804	.976

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City of Chino
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Weather: Clear

File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022
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City of Chino
N/S: Euclid Avenue
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File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	5	149	26	180	0	1	0	1	9	94	2	105	34	12	14	60	
+15 mins.	**6**	134	29	169	**1**	**2**	0	**3**	15	**109**	3	**127**	33	7	15	55	
+30 mins.	5	**158**	29	**192**	1	0	**1**	2	17	92	**4**	113	26	15	**19**	60	
+45 mins.	5	139	**38**	182	0	0	1	1	**18**	83	3	104	**44**	**16**	19	**79**	
Total Volume	21	580	122	723	2	3	2	7	59	378	12	449	137	50	67	254	
% App. Total	2.9	80.2	16.9		28.6	42.9	28.6		13.1	84.2	2.7		53.9	19.7	26.4		
PHF	.875	.918	.803	.941	.500	.375	.500	.583	.819	.867	.750	.884	.778	.781	.882	.804	

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City of Chino
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File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

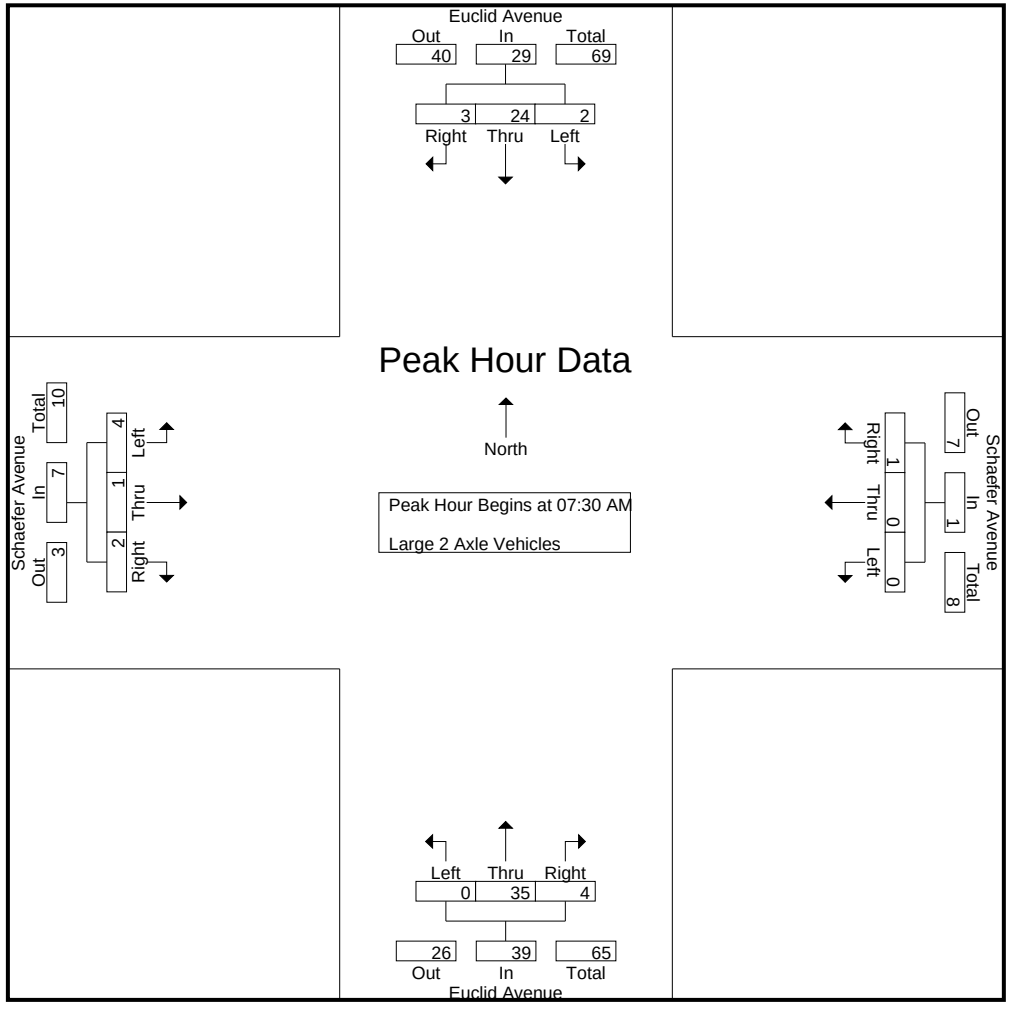
	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	4	0	0	4	2	1	0	0	3	0	7	1	0	8	1	0	0	0	1	0	16	16
06:15 AM	2	9	0	0	11	2	0	2	0	4	0	8	1	0	9	4	0	1	0	5	0	29	29
06:30 AM	0	15	1	0	16	6	2	1	0	9	1	8	1	0	10	3	0	0	0	3	0	38	38
06:45 AM	1	13	2	2	16	2	0	0	0	2	1	6	0	0	7	2	0	1	0	3	2	28	30
Total	3	41	3	2	47	12	3	3	0	18	2	29	3	0	34	10	0	2	0	12	2	111	113
07:00 AM	0	7	0	0	7	0	0	0	0	0	0	17	4	0	21	2	0	0	0	2	0	30	30
07:15 AM	0	13	1	0	14	0	1	1	1	2	0	5	0	0	5	2	1	1	1	4	2	25	27
07:30 AM	1	7	0	0	8	0	0	0	0	0	0	12	1	0	13	0	1	0	0	1	0	22	22
07:45 AM	0	7	1	1	8	0	0	0	0	0	0	4	0	0	4	1	0	0	0	1	1	13	14
Total	1	34	2	1	37	0	1	1	1	2	0	38	5	0	43	5	2	1	1	8	3	90	93
08:00 AM	1	6	2	1	9	0	0	1	0	1	0	8	3	0	11	2	0	1	1	3	2	24	26
08:15 AM	0	4	0	0	4	0	0	0	0	0	0	11	0	0	11	1	0	1	0	2	0	17	17
08:30 AM	1	12	2	0	15	0	0	0	0	0	0	7	1	0	8	2	0	1	1	3	1	26	27
08:45 AM	0	16	0	0	16	0	1	0	0	1	2	8	0	0	10	2	0	0	0	2	0	29	29
Total	2	38	4	1	44	0	1	1	0	2	2	34	4	0	40	7	0	3	2	10	3	96	99
Grand Total	6	113	9	4	128	12	5	5	1	22	4	101	12	0	117	22	2	6	3	30	8	297	305
Apprch %	4.7	88.3	7			54.5	22.7	22.7			3.4	86.3	10.3			73.3	6.7	20					
Total %	2	38	3		43.1	4	1.7	1.7		7.4	1.3	34	4		39.4	7.4	0.7	2		10.1	2.6	97.4	

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**1**	**7**	0	8	0	0	0	0	0	**12**	1	**13**	0	**1**	0	1	22
07:45 AM	0	7	1	8	0	0	0	0	0	4	0	4	1	0	0	1	13
08:00 AM	1	6	**2**	**9**	0	0	**1**	**1**	0	8	**3**	11	**2**	0	**1**	**3**	**24**
08:15 AM	0	4	0	4	0	0	0	0	0	11	0	11	1	0	1	2	17
Total Volume	2	24	3	29	0	0	1	1	0	35	4	39	4	1	2	7	76
% App. Total	6.9	82.8	10.3		0	0	100		0	89.7	10.3		57.1	14.3	28.6		
PHF	.500	.857	.375	.806	.000	.000	.250	.250	.000	.729	.333	.750	.500	.250	.500	.583	.792

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File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
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File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	**1**	**7**	0	8	0	0	0	0	0	**12**	1	**13**	0	**1**	0	1	
+15 mins.	0	7	1	8	0	0	0	0	0	4	0	4	1	0	0	1	
+30 mins.	1	6	**2**	**9**	0	0	**1**	**1**	0	8	**3**	11	**2**	0	**1**	**3**	
+45 mins.	0	4	0	4	0	0	0	0	0	11	0	11	1	0	1	2	
Total Volume	2	24	3	29	0	0	1	1	0	35	4	39	4	1	2	7	
% App. Total	6.9	82.8	10.3		0	0	100		0	89.7	10.3		57.1	14.3	28.6		
PHF	.500	.857	.375	.806	.000	.000	.250	.250	.000	.729	.333	.750	.500	.250	.500	.583	

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File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
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Page No : 1

Groups Printed- 3 Axle Vehicles

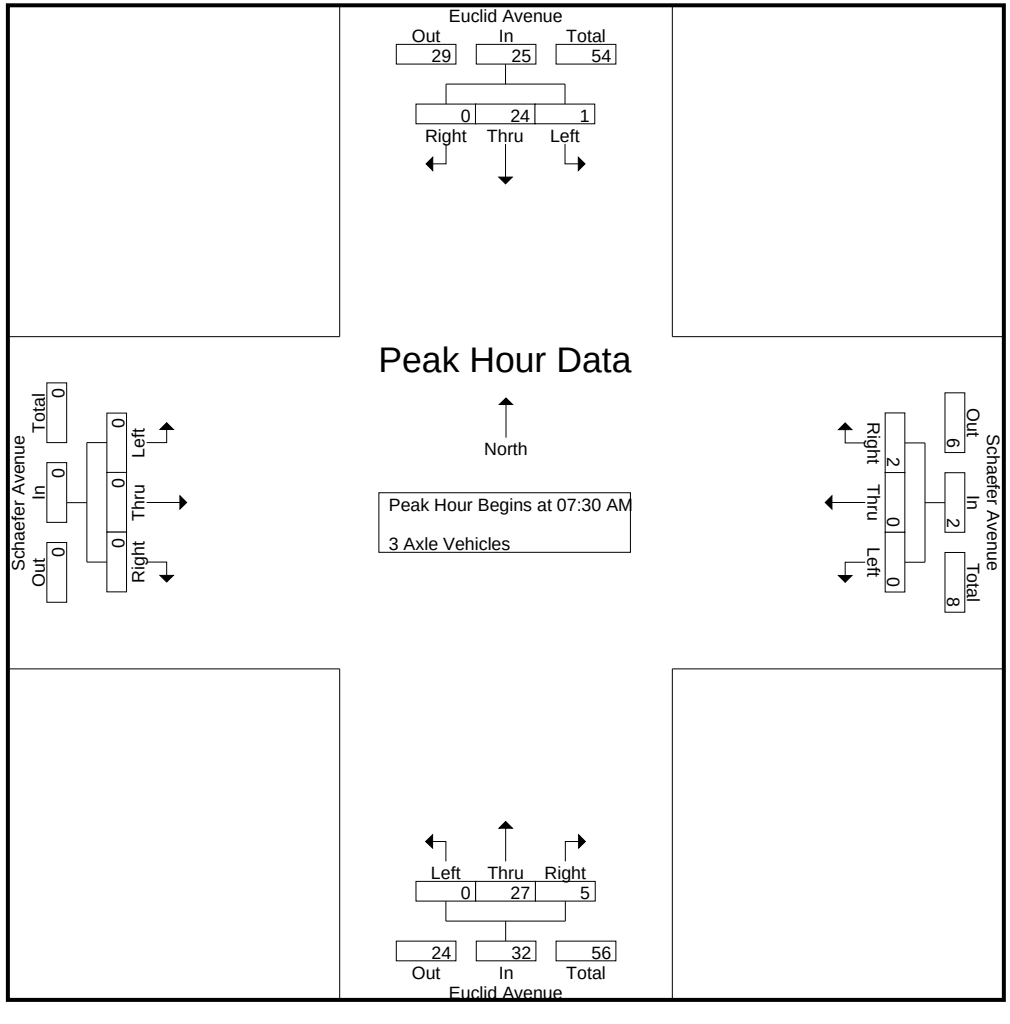
	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	1	5	0	0	6	1	0	1	0	2	0	3	0	0	3	1	0	0	0	1	0	12	12
06:15 AM	0	12	0	0	12	1	0	2	1	3	0	8	0	0	8	0	0	0	0	0	1	23	24
06:30 AM	1	4	0	0	5	0	0	3	1	3	0	5	0	0	5	0	0	0	0	0	1	13	14
06:45 AM	0	9	0	0	9	4	0	1	1	5	0	5	1	0	6	0	0	1	1	1	2	21	23
Total	2	30	0	0	32	6	0	7	3	13	0	21	1	0	22	1	0	1	1	2	4	69	73
07:00 AM	1	6	0	0	7	0	0	0	0	0	0	6	1	0	7	1	0	1	1	2	1	16	17
07:15 AM	0	2	0	0	2	0	0	1	1	1	0	6	2	0	8	0	0	0	0	0	1	11	12
07:30 AM	0	7	0	0	7	0	0	0	0	0	0	3	1	0	4	0	0	0	0	0	0	11	11
07:45 AM	0	5	0	0	5	0	0	0	0	0	0	4	0	0	4	0	0	0	0	0	0	9	9
Total	1	20	0	0	21	0	0	1	1	1	0	19	4	0	23	1	0	1	1	2	2	47	49
08:00 AM	1	7	0	0	8	0	0	1	1	1	0	7	2	0	9	0	0	0	0	0	1	18	19
08:15 AM	0	5	0	0	5	0	0	1	1	1	0	13	2	0	15	0	0	0	0	0	1	21	22
08:30 AM	0	5	0	0	5	0	0	0	0	0	0	9	0	0	9	1	0	0	0	1	0	15	15
08:45 AM	2	10	0	0	12	0	0	0	0	0	0	10	0	0	10	1	0	0	0	1	0	23	23
Total	3	27	0	0	30	0	0	2	2	2	0	39	4	0	43	2	0	0	0	2	2	77	79
Grand Total	6	77	0	0	83	6	0	10	6	16	0	79	9	0	88	4	0	2	2	6	8	193	201
Apprch %	7.2	92.8	0			37.5	0	62.5			0	89.8	10.2			66.7	0	33.3					
Total %	3.1	39.9	0		43	3.1	0	5.2		8.3	0	40.9	4.7		45.6	2.1	0	1		3.1	4	96	

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	**7**	0	7	0	0	0	0	0	3	1	4	0	0	0	0	11
07:45 AM	0	5	0	5	0	0	0	0	0	4	0	4	0	0	0	0	9
08:00 AM	**1**	7	0	**8**	0	0	**1**	**1**	0	7	**2**	9	0	0	0	0	18
08:15 AM	0	5	0	5	0	0	1	1	0	**13**	2	**15**	0	0	0	0	**21**
Total Volume	1	24	0	25	0	0	2	2	0	27	5	32	0	0	0	0	59
% App. Total	4	96	0		0	0	100		0	84.4	15.6		0	0	0		
PHF	.250	.857	.000	.781	.000	.000	.500	.500	.000	.519	.625	.533	.000	.000	.000	.000	.702

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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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N/S: Euclid Avenue
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File Name : 17_CHN_Eu_Scha AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	0	**7**	0	7	0	0	0	0	0	3	1	4	0	0	0	0	
+15 mins.	0	5	0	5	0	0	0	0	0	4	0	4	0	0	0	0	
+30 mins.	**1**	7	0	**8**	0	0	**1**	**1**	0	7	**2**	9	0	0	0	0	
+45 mins.	0	5	0	5	0	0	1	1	0	**13**	2	**15**	0	0	0	0	
Total Volume	1	24	0	25	0	0	2	2	0	27	5	32	0	0	0	0	
% App. Total	4	96	0		0	0	100		0	84.4	15.6		0	0	0		
PHF	.250	.857	.000	.781	.000	.000	.500	.500	.000	.519	.625	.533	.000	.000	.000	.000	

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Site Code : 05122422
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Groups Printed- 4+ Axle Trucks

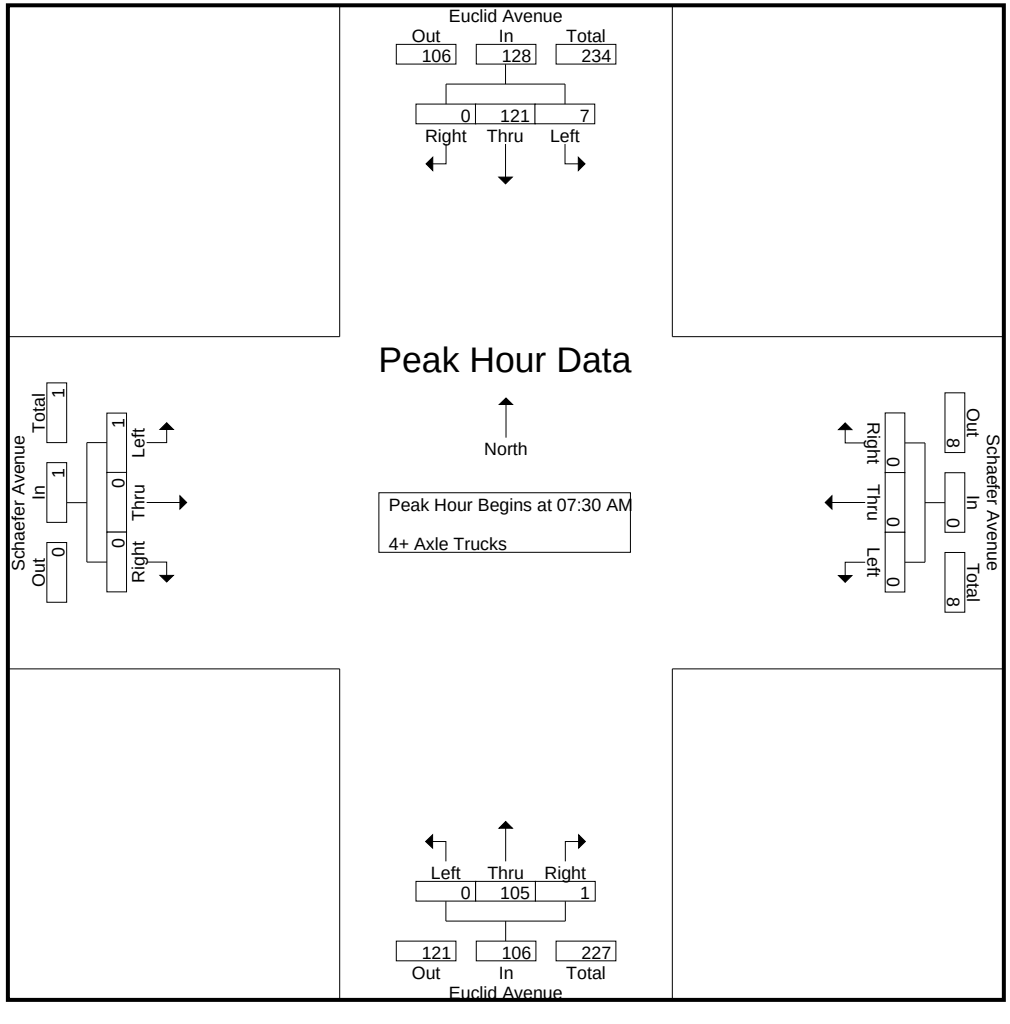
	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	1	18	0	0	19	2	0	7	0	9	0	12	1	0	13	0	0	0	0	0	0	41	41
06:15 AM	3	23	0	0	26	1	0	11	4	12	0	16	2	1	18	1	0	0	0	1	5	57	62
06:30 AM	2	13	0	0	15	0	0	6	3	6	0	18	0	0	18	0	0	0	0	0	3	39	42
06:45 AM	1	24	0	0	25	6	0	11	3	17	0	25	0	0	25	0	0	1	0	1	3	68	71
Total	7	78	0	0	85	9	0	35	10	44	0	71	3	1	74	1	0	1	0	2	11	205	216
07:00 AM	0	24	1	0	25	1	1	5	1	7	0	18	1	0	19	0	0	0	0	0	1	51	52
07:15 AM	4	25	0	0	29	0	0	0	0	0	0	34	0	0	34	1	0	0	0	1	0	64	64
07:30 AM	1	24	0	0	25	0	0	0	0	0	0	31	0	0	31	0	0	0	0	0	0	56	56
07:45 AM	0	28	0	0	28	0	0	0	0	0	0	30	1	0	31	1	0	0	0	1	0	60	60
Total	5	101	1	0	107	1	1	5	1	7	0	113	2	0	115	2	0	0	0	2	1	231	232
08:00 AM	3	37	0	0	40	0	0	0	0	0	0	21	0	0	21	0	0	0	0	0	0	61	61
08:15 AM	3	32	0	0	35	0	0	0	0	0	0	23	0	0	23	0	0	0	0	0	0	58	58
08:30 AM	3	26	0	0	29	0	0	0	0	0	1	19	0	0	20	0	0	0	0	0	0	49	49
08:45 AM	3	20	0	0	23	0	0	0	0	0	0	28	1	0	29	0	0	1	0	1	0	53	53
Total	12	115	0	0	127	0	0	0	0	0	1	91	1	0	93	0	0	1	0	1	0	221	221
Grand Total	24	294	1	0	319	10	1	40	11	51	1	275	6	1	282	3	0	2	0	5	12	657	669
Apprch %	7.5	92.2	0.3			19.6	2	78.4			0.4	97.5	2.1			60	0	40					
Total %	3.7	44.7	0.2		48.6	1.5	0.2	6.1		7.8	0.2	41.9	0.9		42.9	0.5	0	0.3		0.8	1.8	98.2	

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	1	24	0	25	0	0	0	0	0	**31**	0	**31**	0	0	0	0	56
07:45 AM	0	28	0	28	0	0	0	0	0	30	**1**	31	**1**	0	0	**1**	60
08:00 AM	**3**	**37**	0	**40**	0	0	0	0	0	21	0	21	0	0	0	0	**61**
08:15 AM	3	32	0	35	0	0	0	0	0	23	0	23	0	0	0	0	58
Total Volume	7	121	0	128	0	0	0	0	0	105	1	106	1	0	0	1	235
% App. Total	5.5	94.5	0		0	0	0		0	99.1	0.9		100	0	0		
PHF	.583	.818	.000	.800	.000	.000	.000	.000	.000	.847	.250	.855	.250	.000	.000	.250	.963

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File Name : 17_CHN_Eu_Scha AM
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Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	1	24	0	25	0	0	0	0	0	**31**	0	**31**	0	0	0	0	
+15 mins.	0	28	0	28	0	0	0	0	0	30	**1**	31	**1**	0	0	**1**	
+30 mins.	**3**	**37**	0	**40**	0	0	0	0	0	21	0	21	0	0	0	0	
+45 mins.	3	32	0	35	0	0	0	0	0	23	0	23	0	0	0	0	
Total Volume	7	121	0	128	0	0	0	0	0	105	1	106	1	0	0	1	
% App. Total	5.5	94.5	0		0	0	0		0	99.1	0.9		100	0	0		
PHF	.583	.818	.000	.800	.000	.000	.000	.000	.000	.847	.250	.855	.250	.000	.000	.250	

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File Name : 17_CHN_Eu_Scha PM
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	9	155	23	10	187	4	17	3	2	24	8	164	12	3	184	51	57	22	12	130	27	525	552
04:15 PM	7	148	26	8	181	8	18	4	1	30	7	159	14	5	180	59	50	23	12	132	26	523	549
04:30 PM	8	161	22	7	191	6	9	8	1	23	9	154	11	3	174	47	64	28	10	139	21	527	548
04:45 PM	9	168	23	11	200	7	10	6	1	23	10	152	11	1	173	56	64	26	9	146	22	542	564
Total	33	632	94	36	759	25	54	21	5	100	34	629	48	12	711	213	235	99	43	547	96	2117	2213
05:00 PM	11	136	25	17	172	7	24	8	0	39	20	166	7	3	193	68	73	27	16	168	36	572	608
05:15 PM	6	187	22	6	215	7	12	10	4	29	13	192	3	1	208	52	56	29	13	137	24	589	613
05:30 PM	7	155	29	8	191	10	13	6	0	29	12	149	10	3	171	52	67	35	21	154	32	545	577
05:45 PM	5	196	26	13	227	10	18	6	2	34	12	154	8	0	174	52	57	32	13	141	28	576	604
Total	29	674	102	44	805	34	67	30	6	131	57	661	28	7	746	224	253	123	63	600	120	2282	2402
06:00 PM	7	136	23	8	166	8	6	5	1	19	7	145	3	0	155	52	55	22	14	129	23	469	492
06:15 PM	8	126	20	5	154	12	11	1	0	24	11	116	15	2	142	50	34	20	9	104	16	424	440
06:30 PM	5	119	19	4	143	6	6	4	0	16	11	131	13	4	155	37	22	21	11	80	19	394	413
06:45 PM	7	128	14	2	149	14	10	4	2	28	10	107	11	1	128	35	20	13	7	68	12	373	385
Total	27	509	76	19	612	40	33	14	3	87	39	499	42	7	580	174	131	76	41	381	70	1660	1730
Grand Total	89	1815	272	99	2176	99	154	65	14	318	130	1789	118	26	2037	611	619	298	147	1528	286	6059	6345
Apprch %	4.1	83.4	12.5			31.1	48.4	20.4			6.4	87.8	5.8			40	40.5	19.5					
Total %	1.5	30	4.5		35.9	1.6	2.5	1.1		5.2	2.1	29.5	1.9		33.6	10.1	10.2	4.9		25.2	4.5	95.5	
Passenger Vehicles	42	1506	261		1905	65	147	47		271	127	1463	65		1672	600	604	290		1636	0	0	5484
% Passenger Vehicles	47.2	83	96	97	83.7	65.7	95.5	72.3	85.7	81.6	97.7	81.8	55.1	65.4	81	98.2	97.6	97.3	96.6	97.7	0	0	86.4
Large 2 Axle Vehicles	3	64	9		78	13	5	4		22	3	59	5		68	9	12	7		32	0	0	200
% Large 2 Axle Vehicles	3.4	3.5	3.3	2	3.4	13.1	3.2	6.2	0	6.6	2.3	3.3	4.2	3.8	3.3	1.5	1.9	2.3	2.7	1.9	0	0	3.2
3 Axle Vehicles	13	46	1		60	17	1	6		24	0	56	12		71	1	2	1		5	0	0	160
% 3 Axle Vehicles	14.6	2.5	0.4	0	2.6	17.2	0.6	9.2	0	7.2	0	3.1	10.2	11.5	3.4	0.2	0.3	0.3	0.7	0.3	0	0	2.5
4+ Axle Trucks	31	199	1		232	4	1	8		15	0	211	36		252	1	1	0		2	0	0	501
% 4+ Axle Trucks	34.8	11	0.4	1	10.2	4	0.6	12.3	14.3	4.5	0	11.8	30.5	19.2	12.2	0.2	0.2	0	0	0.1	0	0	7.9

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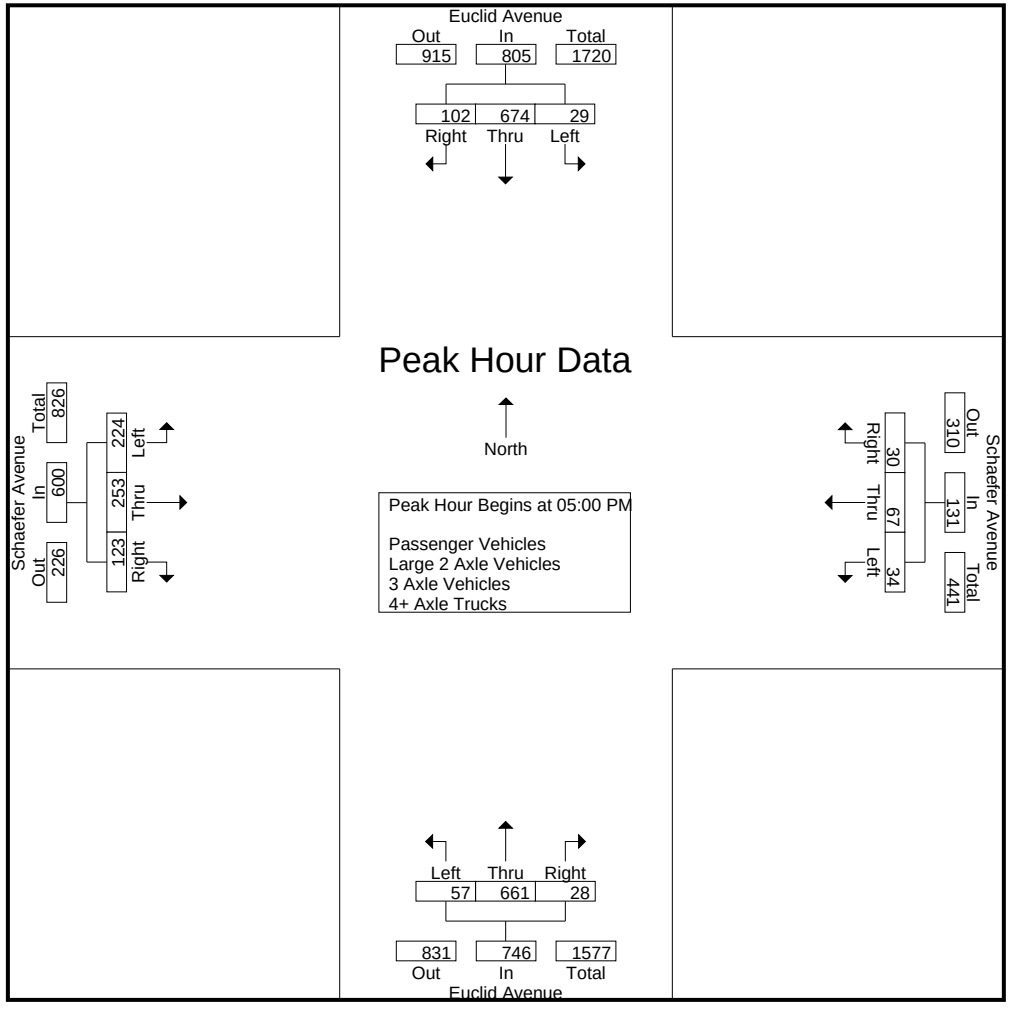
File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**11**	136	25	172	7	**24**	8	**39**	**20**	166	7	193	**68**	**73**	27	**168**	572
05:15 PM	6	187	22	215	7	12	**10**	29	13	**192**	3	**208**	52	56	29	137	**589**
05:30 PM	7	155	**29**	191	**10**	13	6	29	12	149	**10**	171	52	67	**35**	154	545
05:45 PM	5	**196**	26	**227**	10	18	6	34	12	154	8	174	52	57	32	141	576
Total Volume	29	674	102	805	34	67	30	131	57	661	28	746	224	253	123	600	2282
% App. Total	3.6	83.7	12.7		26	51.1	22.9		7.6	88.6	3.8		37.3	42.2	20.5		
PHF	.659	.860	.879	.887	.850	.698	.750	.840	.713	.861	.700	.897	.824	.866	.879	.893	.969

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Site Code : 05122422
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File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				04:30 PM				04:45 PM				
+0 mins.	**11**	136	25	172	7	**24**	8	**39**	9	154	**11**	174	56	64	26	146	
+15 mins.	6	187	22	215	7	12	**10**	29	10	152	11	173	**68**	**73**	27	**168**	
+30 mins.	7	155	**29**	191	**10**	13	6	29	**20**	166	7	193	52	56	29	137	
+45 mins.	5	**196**	26	**227**	10	18	6	34	13	**192**	3	**208**	52	67	**35**	154	
Total Volume	29	674	102	805	34	67	30	131	52	664	32	748	228	260	117	605	
% App. Total	3.6	83.7	12.7		26	51.1	22.9		7	88.8	4.3		37.7	43	19.3		
PHF	.659	.860	.879	.887	.850	.698	.750	.840	.650	.865	.727	.899	.838	.890	.836	.900	

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Groups Printed- Passenger Vehicles

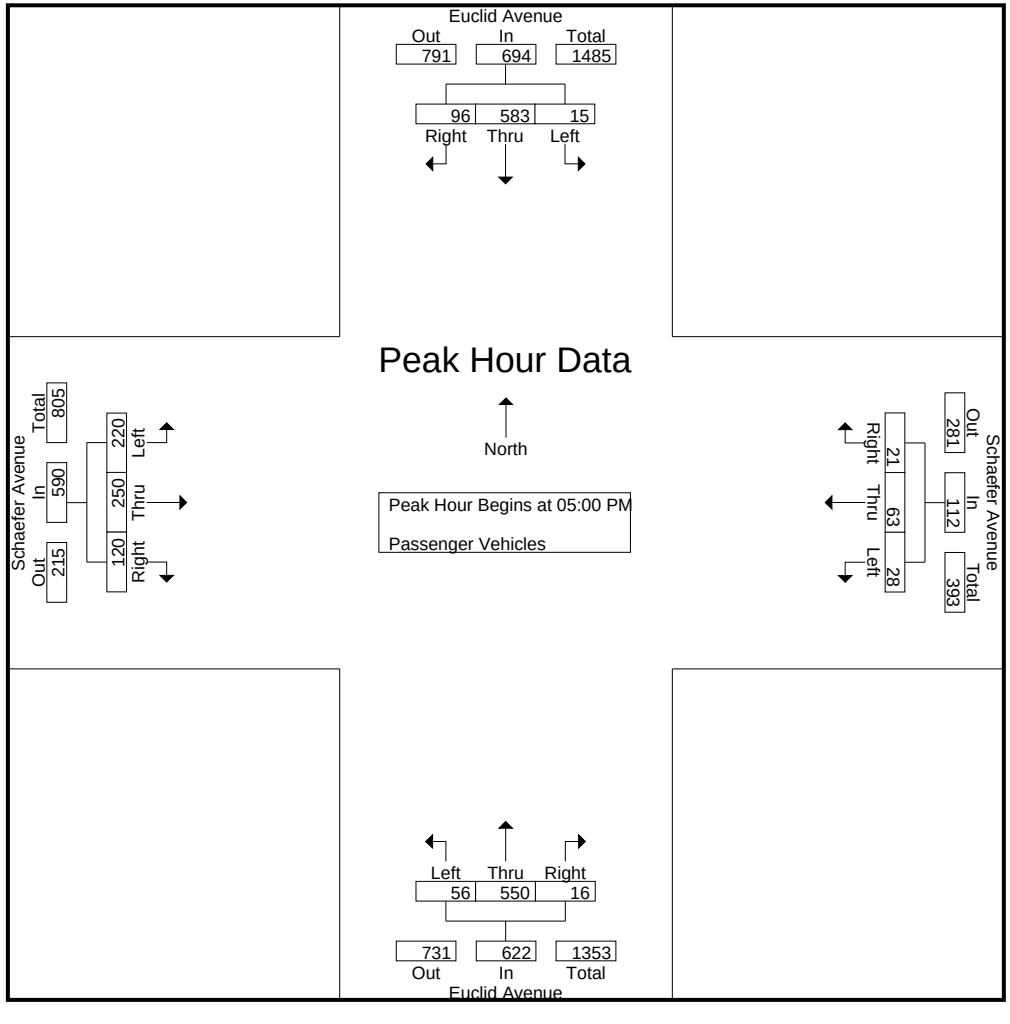
	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	4	125	23	10	152	4	16	2	1	22	7	136	6	1	149	50	55	22	12	127	24	450	474
04:15 PM	4	123	24	7	151	4	18	3	1	25	7	127	8	4	142	58	47	23	12	128	24	446	470
04:30 PM	4	133	21	7	158	6	9	5	1	20	9	125	4	1	138	47	62	27	9	136	18	452	470
04:45 PM	5	141	22	10	168	6	9	4	1	19	10	127	5	1	142	55	62	25	8	142	20	471	491
Total	17	522	90	34	629	20	52	14	4	86	33	515	23	7	571	210	226	97	41	533	86	1819	1905
05:00 PM	5	117	24	17	146	7	24	6	0	37	20	142	5	3	167	67	73	25	15	165	35	515	550
05:15 PM	4	168	20	6	192	6	10	6	3	22	13	155	0	0	168	52	54	28	12	134	21	516	537
05:30 PM	5	130	29	8	164	8	11	3	0	22	11	124	9	3	144	50	67	35	21	152	32	482	514
05:45 PM	1	168	23	12	192	7	18	6	2	31	12	129	2	0	143	51	56	32	13	139	27	505	532
Total	15	583	96	43	694	28	63	21	5	112	56	550	16	6	622	220	250	120	61	590	115	2018	2133
06:00 PM	4	116	23	8	143	0	6	5	1	11	7	118	3	0	128	52	53	21	13	126	22	408	430
06:15 PM	3	93	20	5	116	5	11	1	0	17	10	96	13	2	119	49	34	19	9	102	16	354	370
06:30 PM	2	87	19	4	108	5	6	3	0	14	11	107	3	1	121	36	22	21	11	79	16	322	338
06:45 PM	1	105	13	2	119	7	9	3	2	19	10	77	7	1	94	33	19	12	7	64	12	296	308
Total	10	401	75	19	486	17	32	12	3	61	38	398	26	4	462	170	128	73	40	371	66	1380	1446
Grand Total	42	1506	261	96	1809	65	147	47	12	259	127	1463	65	17	1655	600	604	290	142	1494	267	5217	5484
Apprch %	2.3	83.3	14.4			25.1	56.8	18.1			7.7	88.4	3.9			40.2	40.4	19.4					
Total %	0.8	28.9	5		34.7	1.2	2.8	0.9		5	2.4	28	1.2		31.7	11.5	11.6	5.6		28.6	4.9	95.1	

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**5**	117	24	146	7	**24**	**6**	**37**	**20**	142	5	167	**67**	**73**	25	**165**	515
05:15 PM	4	**168**	20	**192**	6	10	6	22	13	**155**	0	**168**	52	54	28	134	**516**
05:30 PM	5	130	**29**	164	**8**	11	3	22	11	124	**9**	144	50	67	**35**	152	482
05:45 PM	1	168	23	192	7	18	6	31	12	129	2	143	51	56	32	139	505
Total Volume	15	583	96	694	28	63	21	112	56	550	16	622	220	250	120	590	2018
% App. Total	2.2	84	13.8		25	56.2	18.8		9	88.4	2.6		37.3	42.4	20.3		
PHF	.750	.868	.828	.904	.875	.656	.875	.757	.700	.887	.444	.926	.821	.856	.857	.894	.978

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	**5**	117	24	146	7	**24**	**6**	**37**	**20**	142	5	167	**67**	**73**	25	**165**	
+15 mins.	4	**168**	20	**192**	6	10	6	22	13	**155**	0	**168**	52	54	28	134	
+30 mins.	5	130	**29**	164	**8**	11	3	22	11	124	**9**	144	50	67	**35**	152	
+45 mins.	1	168	23	192	7	18	6	31	12	129	2	143	51	56	32	139	
Total Volume	15	583	96	694	28	63	21	112	56	550	16	622	220	250	120	590	
% App. Total	2.2	84	13.8		25	56.2	18.8		9	88.4	2.6		37.3	42.4	20.3		
PHF	.750	.868	.828	.904	.875	.656	.875	.757	.700	.887	.444	.926	.821	.856	.857	.894	

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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

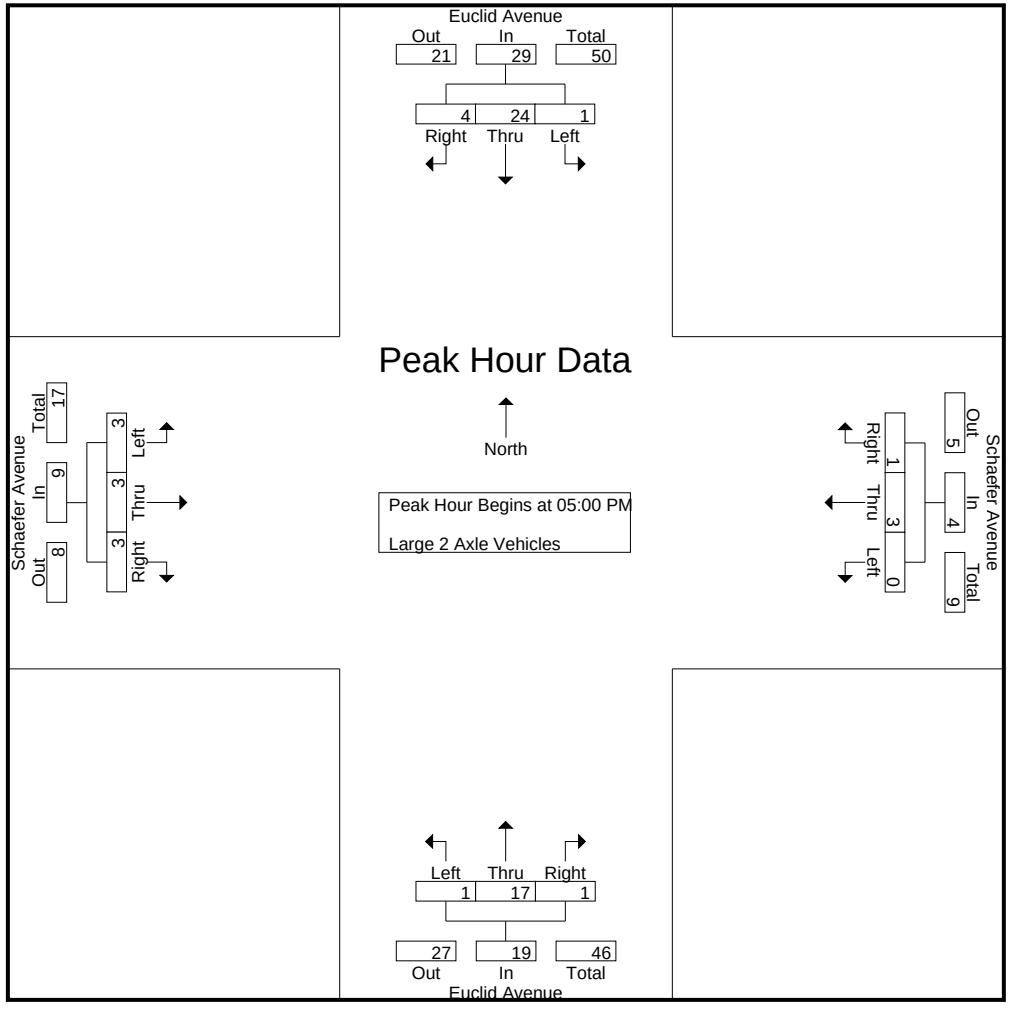
	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	7	0	0	7	0	0	0	0	0	1	8	0	0	9	1	2	0	0	3	0	19	19
04:15 PM	0	5	2	1	7	1	0	0	0	1	0	6	1	1	7	1	2	0	0	3	2	18	20
04:30 PM	0	7	1	0	8	0	0	2	0	2	0	9	1	0	10	0	2	1	1	3	1	23	24
04:45 PM	1	5	1	1	7	0	1	1	0	2	0	5	1	0	6	1	2	1	1	4	2	19	21
Total	1	24	4	2	29	1	1	3	0	5	1	28	3	1	32	3	8	2	2	13	5	79	84
05:00 PM	1	8	1	0	10	0	0	0	0	0	0	4	0	0	4	0	0	2	1	2	1	16	17
05:15 PM	0	5	1	0	6	0	2	1	0	3	0	5	0	0	5	0	2	1	1	3	1	17	18
05:30 PM	0	4	0	0	4	0	1	0	0	1	1	3	0	0	4	2	0	0	0	2	0	11	11
05:45 PM	0	7	2	0	9	0	0	0	0	0	0	5	1	0	6	1	1	0	0	2	0	17	17
Total	1	24	4	0	29	0	3	1	0	4	1	17	1	0	19	3	3	3	2	9	2	61	63
06:00 PM	0	3	0	0	3	4	0	0	0	4	0	4	0	0	4	0	0	0	0	0	0	11	11
06:15 PM	1	10	0	0	11	5	0	0	0	5	1	4	0	0	5	1	0	1	0	2	0	23	23
06:30 PM	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	0	0	0	0	0	0	5	5
06:45 PM	0	1	1	0	2	3	1	0	0	4	0	3	1	0	4	2	1	1	0	4	0	14	14
Total	1	16	1	0	18	12	1	0	0	13	1	14	1	0	16	3	1	2	0	6	0	53	53
Grand Total	3	64	9	2	76	13	5	4	0	22	3	59	5	1	67	9	12	7	4	28	7	193	200
Apprch %	3.9	84.2	11.8			59.1	22.7	18.2			4.5	88.1	7.5			32.1	42.9	25					
Total %	1.6	33.2	4.7		39.4	6.7	2.6	2.1		11.4	1.6	30.6	2.6		34.7	4.7	6.2	3.6		14.5	3.5	96.5	

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**1**	**8**	1	**10**	0	0	0	0	0	4	0	4	0	0	**2**	2	16
05:15 PM	0	5	1	6	0	**2**	**1**	**3**	0	**5**	0	5	0	**2**	1	**3**	**17**
05:30 PM	0	4	0	4	0	1	0	1	**1**	3	0	4	**2**	0	0	2	11
05:45 PM	0	7	**2**	9	0	0	0	0	0	5	**1**	**6**	1	1	0	2	17
Total Volume	1	24	4	29	0	3	1	4	1	17	1	19	3	3	3	9	61
% App. Total	3.4	82.8	13.8		0	75	25		5.3	89.5	5.3		33.3	33.3	33.3		
PHF	.250	.750	.500	.725	.000	.375	.250	.333	.250	.850	.250	.792	.375	.375	.375	.750	.897

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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	**1**	**8**	1	**10**	0	0	0	0	0	4	0	4	0	0	**2**	2	
+15 mins.	0	5	1	6	0	**2**	**1**	**3**	0	**5**	0	5	0	**2**	1	**3**	
+30 mins.	0	4	0	4	0	1	0	1	**1**	3	0	4	**2**	0	0	2	
+45 mins.	0	7	**2**	9	0	0	0	0	0	5	**1**	**6**	1	1	0	2	
Total Volume	1	24	4	29	0	3	1	4	1	17	1	19	3	3	3	9	
% App. Total	3.4	82.8	13.8		0	75	25		5.3	89.5	5.3		33.3	33.3	33.3		
PHF	.250	.750	.500	.725	.000	.375	.250	.333	.250	.850	.250	.792	.375	.375	.375	.750	

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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
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File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

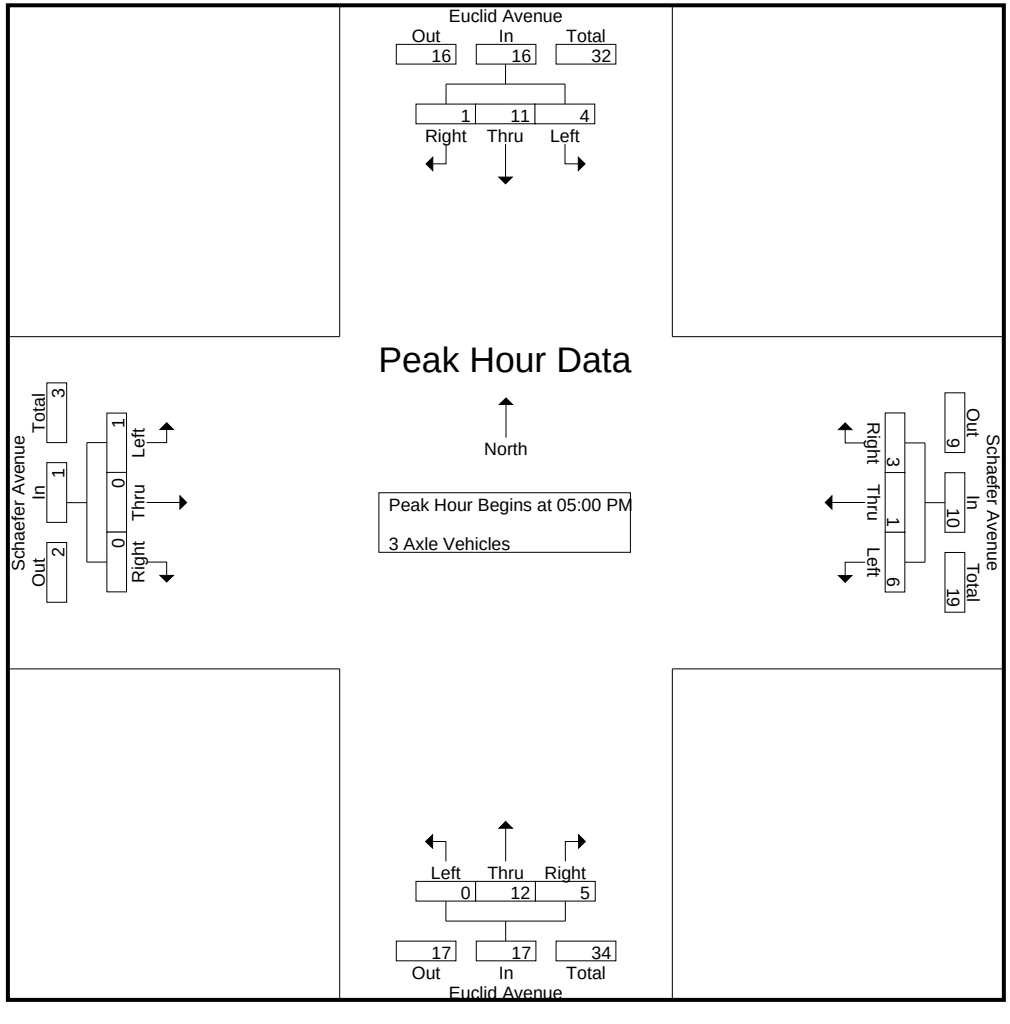
	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	2	7	0	0	9	0	0	0	0	0	0	5	2	2	7	0	0	0	0	0	2	16	18
04:15 PM	1	4	0	0	5	1	0	1	0	2	0	10	0	0	10	0	1	0	0	1	0	18	18
04:30 PM	2	4	0	0	6	0	0	1	0	1	0	5	1	0	6	0	0	0	0	0	0	13	13
04:45 PM	0	5	0	0	5	0	0	0	0	0	0	7	3	0	10	0	0	0	0	0	0	15	15
Total	5	20	0	0	25	1	0	2	0	3	0	27	6	2	33	0	1	0	0	1	2	62	64
05:00 PM	2	4	0	0	6	0	0	0	0	0	0	4	1	0	5	1	0	0	0	1	0	12	12
05:15 PM	0	3	1	0	4	1	0	2	0	3	0	1	2	1	3	0	0	0	0	0	1	10	11
05:30 PM	2	3	0	0	5	2	1	1	0	4	0	4	1	0	5	0	0	0	0	0	0	14	14
05:45 PM	0	1	0	0	1	3	0	0	0	3	0	3	1	0	4	0	0	0	0	0	0	8	8
Total	4	11	1	0	16	6	1	3	0	10	0	12	5	1	17	1	0	0	0	1	1	44	45
06:00 PM	2	3	0	0	5	4	0	0	0	4	0	5	0	0	5	0	1	1	1	2	1	16	17
06:15 PM	1	5	0	0	6	1	0	0	0	1	0	5	0	0	5	0	0	0	0	0	0	12	12
06:30 PM	1	5	0	0	6	1	0	0	0	1	0	2	0	0	2	0	0	0	0	0	0	9	9
06:45 PM	0	2	0	0	2	4	0	1	0	5	0	5	1	0	6	0	0	0	0	0	0	13	13
Total	4	15	0	0	19	10	0	1	0	11	0	17	1	0	18	0	1	1	1	2	1	50	51
Grand Total	13	46	1	0	60	17	1	6	0	24	0	56	12	3	68	1	2	1	1	4	4	156	160
Apprch %	21.7	76.7	1.7			70.8	4.2	25			0	82.4	17.6			25	50	25					
Total %	8.3	29.5	0.6		38.5	10.9	0.6	3.8		15.4	0	35.9	7.7		43.6	0.6	1.3	0.6		2.6	2.5	97.5	

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	**2**	**4**	0	**6**	0	0	0	0	0	**4**	1	**5**	**1**	0	0	**1**	12
05:15 PM	0	3	**1**	4	1	0	**2**	3	0	1	**2**	3	0	0	0	0	10
05:30 PM	2	3	0	5	2	**1**	1	**4**	0	4	1	5	0	0	0	0	**14**
05:45 PM	0	1	0	1	**3**	0	0	3	0	3	1	4	0	0	0	0	8
Total Volume	4	11	1	16	6	1	3	10	0	12	5	17	1	0	0	1	44
% App. Total	25	68.8	6.2		60	10	30		0	70.6	29.4		100	0	0		
PHF	.500	.688	.250	.667	.500	.250	.375	.625	.000	.750	.625	.850	.250	.000	.000	.250	.786

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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
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File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	**2**	**4**	0	**6**	0	0	0	0	0	**4**	1	**5**	**1**	0	0	**1**	
+15 mins.	0	3	**1**	4	1	0	**2**	3	0	1	**2**	3	0	0	0	0	
+30 mins.	2	3	0	5	2	**1**	1	**4**	0	4	1	5	0	0	0	0	
+45 mins.	0	1	0	1	**3**	0	0	3	0	3	1	4	0	0	0	0	
Total Volume	4	11	1	16	6	1	3	10	0	12	5	17	1	0	0	1	
% App. Total	25	68.8	6.2		60	10	30		0	70.6	29.4		100	0	0		
PHF	.500	.688	.250	.667	.500	.250	.375	.625	.000	.750	.625	.850	.250	.000	.000	.250	

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City of Chino
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File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
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Groups Printed- 4+ Axle Trucks

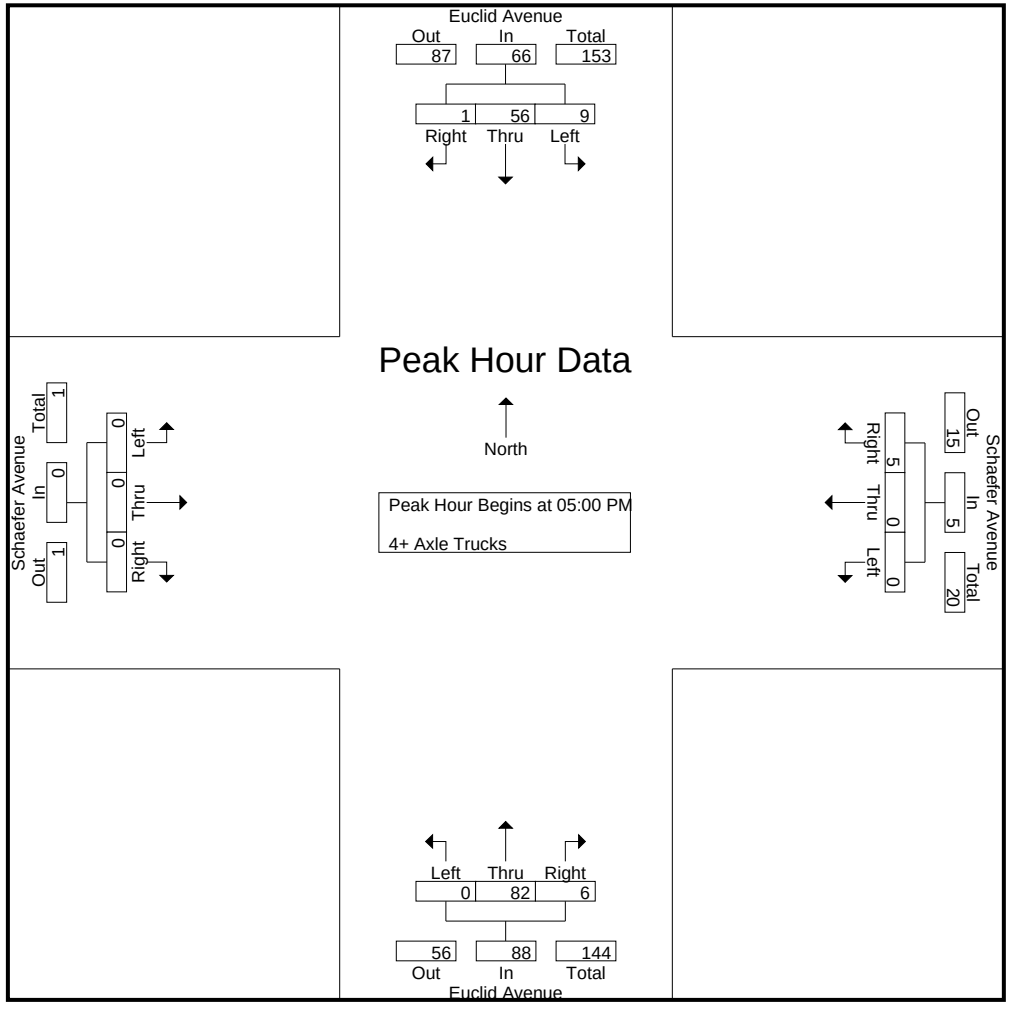
	Euclid Avenue Southbound					Schaefer Avenue Westbound					Euclid Avenue Northbound					Schaefer Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	3	16	0	0	19	0	1	1	1	2	0	15	4	0	19	0	0	0	0	0	1	40	41
04:15 PM	2	16	0	0	18	2	0	0	0	2	0	16	5	0	21	0	0	0	0	0	0	41	41
04:30 PM	2	17	0	0	19	0	0	0	0	0	0	15	5	2	20	0	0	0	0	0	2	39	41
04:45 PM	3	17	0	0	20	1	0	1	0	2	0	13	2	0	15	0	0	0	0	0	0	37	37
Total	10	66	0	0	76	3	1	2	1	6	0	59	16	2	75	0	0	0	0	0	3	157	160
05:00 PM	3	7	0	0	10	0	0	2	0	2	0	16	1	0	17	0	0	0	0	0	0	29	29
05:15 PM	2	11	0	0	13	0	0	1	1	1	0	31	1	0	32	0	0	0	0	0	1	46	47
05:30 PM	0	18	0	0	18	0	0	2	0	2	0	18	0	0	18	0	0	0	0	0	0	38	38
05:45 PM	4	20	1	1	25	0	0	0	0	0	0	17	4	0	21	0	0	0	0	0	1	46	47
Total	9	56	1	1	66	0	0	5	1	5	0	82	6	0	88	0	0	0	0	0	2	159	161
06:00 PM	1	14	0	0	15	0	0	0	0	0	0	18	0	0	18	0	1	0	0	1	0	34	34
06:15 PM	3	18	0	0	21	1	0	0	0	1	0	11	2	0	13	0	0	0	0	0	0	35	35
06:30 PM	2	25	0	0	27	0	0	1	0	1	0	19	10	3	29	1	0	0	0	1	3	58	61
06:45 PM	6	20	0	0	26	0	0	0	0	0	0	22	2	0	24	0	0	0	0	0	0	50	50
Total	12	77	0	0	89	1	0	1	0	2	0	70	14	3	84	1	1	0	0	2	3	177	180
Grand Total	31	199	1	1	231	4	1	8	2	13	0	211	36	5	247	1	1	0	0	2	8	493	501
Apprch %	13.4	86.1	0.4			30.8	7.7	61.5			0	85.4	14.6			50	50	0					
Total %	6.3	40.4	0.2		46.9	0.8	0.2	1.6		2.6	0	42.8	7.3		50.1	0.2	0.2	0		0.4	1.6	98.4	

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	3	7	0	10	0	0	**2**	**2**	0	16	1	17	0	0	0	0	29
05:15 PM	2	11	0	13	0	0	1	1	0	**31**	1	**32**	0	0	0	0	**46**
05:30 PM	0	18	0	18	0	0	2	2	0	18	0	18	0	0	0	0	38
05:45 PM	**4**	**20**	**1**	**25**	0	0	0	0	0	17	**4**	21	0	0	0	0	46
Total Volume	9	56	1	66	0	0	5	5	0	82	6	88	0	0	0	0	159
% App. Total	13.6	84.8	1.5		0	0	100		0	93.2	6.8		0	0	0		
PHF	.563	.700	.250	.660	.000	.000	.625	.625	.000	.661	.375	.688	.000	.000	.000	.000	.864

Counts Unlimited, Inc.
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City of Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue
Weather: Clear

File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
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Weather: Clear

File Name : 17_CHN_Eu_Scha PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Schaefer Avenue Westbound				Euclid Avenue Northbound				Schaefer Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	3	7	0	10	0	0	**2**	**2**	0	16	1	17	0	0	0	0	
+15 mins.	2	11	0	13	0	0	1	1	0	**31**	1	**32**	0	0	0	0	
+30 mins.	0	18	0	18	0	0	2	2	0	18	0	18	0	0	0	0	
+45 mins.	**4**	**20**	**1**	**25**	0	0	0	0	0	17	**4**	21	0	0	0	0	
Total Volume	9	56	1	66	0	0	5	5	0	82	6	88	0	0	0	0	
% App. Total	13.6	84.8	1.5		0	0	100		0	93.2	6.8		0	0	0		
PHF	.563	.700	.250	.660	.000	.000	.625	.625	.000	.661	.375	.688	.000	.000	.000	.000	

Location: Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg Euclid Avenue Pedestrians	East Leg Schaefer Avenue Pedestrians	South Leg Euclid Avenue Pedestrians	West Leg Schaefer Avenue Pedestrians	
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	0	0
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	1	1
TOTAL VOLUMES:	0	0	0	1	1

	North Leg Euclid Avenue Pedestrians	East Leg Schaefer Avenue Pedestrians	South Leg Euclid Avenue Pedestrians	West Leg Schaefer Avenue Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	2	2
4:30 PM	0	0	1	0	1
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	1	0	0	0	1
6:00 PM	0	1	1	0	2
6:15 PM	0	0	0	1	1
6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	1	1
TOTAL VOLUMES:	1	1	2	4	8

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Location: Chino
N/S: Euclid Avenue
E/W: Schaefer Avenue

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound Euclid Avenue			Westbound Schaefer Avenue			Northbound Euclid Avenue			Eastbound Schaefer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	4	0	0	0	0	0	0	0	0	0	0	4

	Southbound Euclid Avenue			Westbound Schaefer Avenue			Northbound Euclid Avenue			Eastbound Schaefer Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	1	1	0	0	0	0	0	0	0	2
4:15 PM	0	0	0	0	0	0	0	2	0	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	2	0	0	2
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	1	0	1	1	0	0	2	0	2	0	0	7

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City of Chino
N/S: Euclid Avenue
E/W: Edison Avenue
Weather: Clear

File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	6	148	16	8	170	19	51	5	1	75	10	87	5	4	102	14	15	17	11	46	24	393	417
06:15 AM	9	219	19	9	247	17	58	6	1	81	11	53	2	0	66	17	18	14	8	49	18	443	461
06:30 AM	8	224	28	10	260	9	67	7	0	83	21	78	2	0	101	22	28	13	6	63	16	507	523
06:45 AM	8	207	30	10	245	16	76	6	0	98	19	88	3	0	110	18	31	16	9	65	19	518	537
Total	31	798	93	37	922	61	252	24	2	337	61	306	12	4	379	71	92	60	34	223	77	1861	1938
07:00 AM	16	131	18	11	165	14	80	13	1	107	19	100	5	2	124	25	30	16	9	71	23	467	490
07:15 AM	9	125	17	9	151	13	82	17	1	112	13	117	4	1	134	24	31	19	9	74	20	471	491
07:30 AM	10	161	21	8	192	10	92	16	2	118	32	142	4	1	178	18	42	17	9	77	20	565	585
07:45 AM	12	122	32	5	166	15	93	18	1	126	15	122	5	2	142	23	43	19	8	85	16	519	535
Total	47	539	88	33	674	52	347	64	5	463	79	481	18	6	578	90	146	71	35	307	79	2022	2101
08:00 AM	17	158	31	12	206	11	87	11	4	109	22	121	11	3	154	23	21	13	7	57	26	526	552
08:15 AM	10	145	40	9	195	16	79	13	3	108	31	119	2	1	152	21	23	22	11	66	24	521	545
08:30 AM	15	139	34	14	188	12	97	15	3	124	18	87	5	2	110	20	37	20	6	77	25	499	524
08:45 AM	15	158	28	17	201	7	67	12	1	86	23	137	3	1	163	25	22	20	11	67	30	517	547
Total	57	600	133	52	790	46	330	51	11	427	94	464	21	7	579	89	103	75	35	267	105	2063	2168
Grand Total	135	1937	314	122	2386	159	929	139	18	1227	234	1251	51	17	1536	250	341	206	104	797	261	5946	6207
Apprch %	5.7	81.2	13.2			13	75.7	11.3			15.2	81.4	3.3			31.4	42.8	25.8					
Total %	2.3	32.6	5.3		40.1	2.7	15.6	2.3		20.6	3.9	21	0.9		25.8	4.2	5.7	3.5		13.4	4.2	95.8	
Passenger Vehicles	91	1660	158		1980	93	815	85		1002	194	988	21		1213	69	277	167		599	0	0	4794
% Passenger Vehicles	67.4	85.7	50.3	58.2	78.9	58.5	87.7	61.2	50	80.5	82.9	79	41.2	58.8	78.1	27.6	81.2	81.1	82.7	66.5	0	0	77.2
Large 2 Axle Vehicles	7	63	24		105	6	36	14		59	13	56	4		74	43	29	18		101	0	0	339
% Large 2 Axle Vehicles	5.2	3.3	7.6	9	4.2	3.8	3.9	10.1	16.7	4.7	5.6	4.5	7.8	5.9	4.8	17.2	8.5	8.7	10.6	11.2	0	0	5.5
3 Axle Vehicles	10	55	23		99	25	31	14		75	8	50	15		77	29	15	5		51	0	0	302
% 3 Axle Vehicles	7.4	2.8	7.3	9	3.9	15.7	3.3	10.1	27.8	6	3.4	4	29.4	23.5	5	11.6	4.4	2.4	1.9	5.7	0	0	4.9
4+ Axle Trucks	27	159	109		324	35	47	26		109	19	157	11		189	109	20	16		150	0	0	772
% 4+ Axle Trucks	20	8.2	34.7	23.8	12.9	22	5.1	18.7	5.6	8.8	8.1	12.5	21.6	11.8	12.2	43.6	5.9	7.8	4.8	16.6	0	0	12.4

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City of Chino
N/S: Euclid Avenue
E/W: Edison Avenue
Weather: Clear

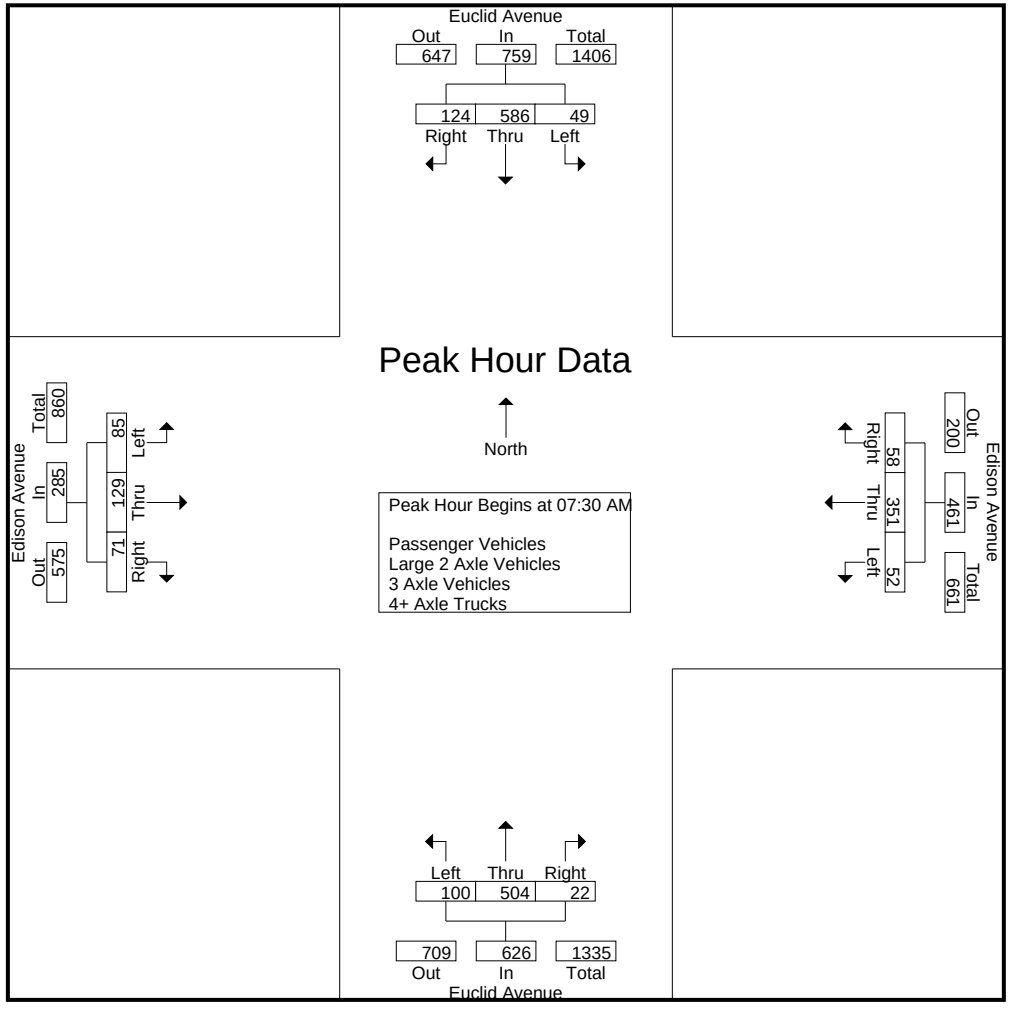
File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	10	**161**	21	192	10	92	16	118	**32**	**142**	4	**178**	18	42	17	77	**565**
07:45 AM	12	122	32	166	15	**93**	**18**	**126**	15	122	5	142	**23**	**43**	19	**85**	519
08:00 AM	**17**	158	31	**206**	11	87	11	109	22	121	**11**	154	23	21	13	57	526
08:15 AM	10	145	**40**	195	**16**	79	13	108	31	119	2	152	21	23	**22**	66	521
Total Volume	49	586	124	759	52	351	58	461	100	504	22	626	85	129	71	285	2131
% App. Total	6.5	77.2	16.3		11.3	76.1	12.6		16	80.5	3.5		29.8	45.3	24.9		
PHF	.721	.910	.775	.921	.813	.944	.806	.915	.781	.887	.500	.879	.924	.750	.807	.838	.943

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City of Chino
N/S: Euclid Avenue
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Weather: Clear

File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022
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	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 06:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	06:00 AM				07:45 AM				07:30 AM				07:00 AM				
+0 mins.	6	148	16	170	15	93	**18**	**126**	**32**	**142**	4	**178**	**25**	30	16	71	
+15 mins.	**9**	219	19	247	11	87	11	109	15	122	5	142	24	31	**19**	74	
+30 mins.	8	**224**	28	**260**	**16**	79	13	108	22	121	**11**	154	18	42	17	77	
+45 mins.	8	207	**30**	245	12	**97**	15	124	31	119	2	152	23	**43**	19	**85**	
Total Volume	31	798	93	922	54	356	57	467	100	504	22	626	90	146	71	307	
% App. Total	3.4	86.6	10.1		11.6	76.2	12.2		16	80.5	3.5		29.3	47.6	23.1		
PHF	.861	.891	.775	.887	.844	.918	.792	.927	.781	.887	.500	.879	.900	.849	.934	.903	

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City of Chino
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Site Code : 05122422
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Groups Printed- Passenger Vehicles

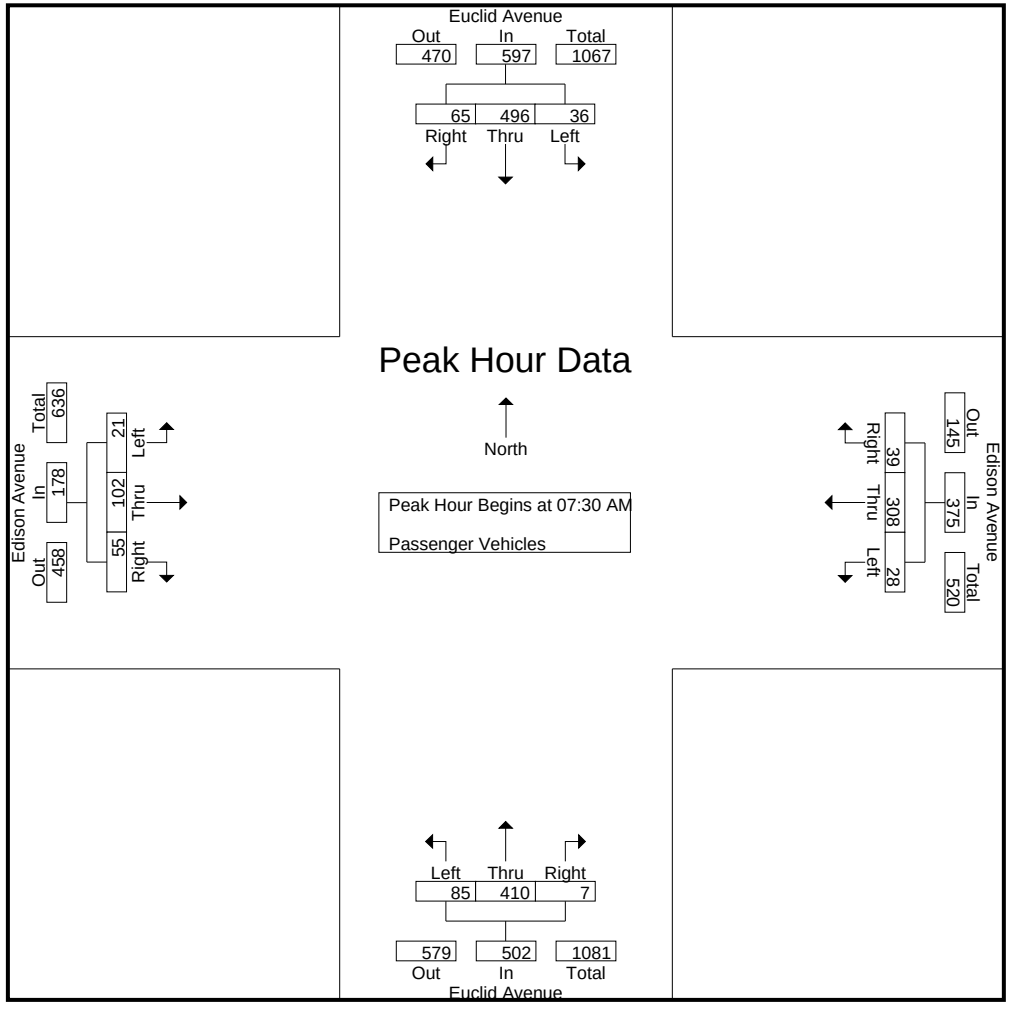
	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	5	128	8	4	141	12	46	3	1	61	6	75	4	3	85	3	12	14	9	29	17	316	333
06:15 AM	3	192	7	3	202	13	51	2	0	66	9	34	1	0	44	4	15	11	6	30	9	342	351
06:30 AM	5	211	15	6	231	6	61	2	0	69	17	61	0	0	78	7	22	12	6	41	12	419	431
06:45 AM	8	177	11	5	196	11	60	4	0	75	15	64	1	0	80	7	22	12	6	41	11	392	403
Total	21	708	41	18	770	42	218	11	1	271	47	234	6	3	287	21	71	49	27	141	49	1469	1518
07:00 AM	5	112	8	6	125	9	68	9	1	86	15	72	3	2	90	9	28	12	7	49	16	350	366
07:15 AM	6	102	7	5	115	5	72	7	0	84	10	95	2	0	107	5	27	16	8	48	13	354	367
07:30 AM	5	144	9	4	158	6	78	11	1	95	25	116	0	0	141	6	33	13	6	52	11	446	457
07:45 AM	8	103	14	3	125	8	88	12	1	108	14	106	1	1	121	6	34	13	7	53	12	407	419
Total	24	461	38	18	523	28	306	39	3	373	64	389	6	3	459	26	122	54	28	202	52	1557	1609
08:00 AM	13	127	17	5	157	3	75	8	2	86	19	96	5	2	120	7	17	11	7	35	16	398	414
08:15 AM	10	122	25	7	157	11	67	8	2	86	27	92	1	1	120	2	18	18	10	38	20	401	421
08:30 AM	13	115	21	13	149	6	89	11	1	106	18	64	2	0	84	7	31	20	6	58	20	397	417
08:45 AM	10	127	16	10	153	3	60	8	0	71	19	113	1	1	133	6	18	15	8	39	19	396	415
Total	46	491	79	35	616	23	291	35	5	349	83	365	9	4	457	22	84	64	31	170	75	1592	1667
Grand Total	91	1660	158	71	1909	93	815	85	9	993	194	988	21	10	1203	69	277	167	86	513	176	4618	4794
Apprch %	4.8	87	8.3			9.4	82.1	8.6			16.1	82.1	1.7			13.5	54	32.6					
Total %	2	35.9	3.4		41.3	2	17.6	1.8		21.5	4.2	21.4	0.5		26.1	1.5	6	3.6		11.1	3.7	96.3	

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	5	**144**	9	**158**	6	78	11	95	25	**116**	0	**141**	6	33	13	52	**446**
07:45 AM	8	103	14	125	8	**88**	**12**	**108**	14	106	1	121	6	**34**	13	**53**	407
08:00 AM	**13**	127	17	157	3	75	8	86	19	96	**5**	120	**7**	17	11	35	398
08:15 AM	10	122	**25**	157	**11**	67	8	86	**27**	92	1	120	2	18	**18**	38	401
Total Volume	36	496	65	597	28	308	39	375	85	410	7	502	21	102	55	178	1652
% App. Total	6	83.1	10.9		7.5	82.1	10.4		16.9	81.7	1.4		11.8	57.3	30.9		
PHF	.692	.861	.650	.945	.636	.875	.813	.868	.787	.884	.350	.890	.750	.750	.764	.840	.926

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City of Chino
N/S: Euclid Avenue
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City of Chino
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File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	5	**144**	9	**158**	6	78	11	95	25	**116**	0	**141**	6	33	13	52	
+15 mins.	8	103	14	125	8	**88**	**12**	**108**	14	106	1	121	6	**34**	13	**53**	
+30 mins.	**13**	127	17	157	3	75	8	86	19	96	**5**	120	**7**	17	11	35	
+45 mins.	10	122	**25**	157	**11**	67	8	86	**27**	92	1	120	2	18	**18**	38	
Total Volume	36	496	65	597	28	308	39	375	85	410	7	502	21	102	55	178	
% App. Total	6	83.1	10.9		7.5	82.1	10.4		16.9	81.7	1.4		11.8	57.3	30.9		
PHF	.692	.861	.650	.945	.636	.875	.813	.868	.787	.884	.350	.890	.750	.750	.764	.840	

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File Name : 18_CHN_Eu_Edi AM
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Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

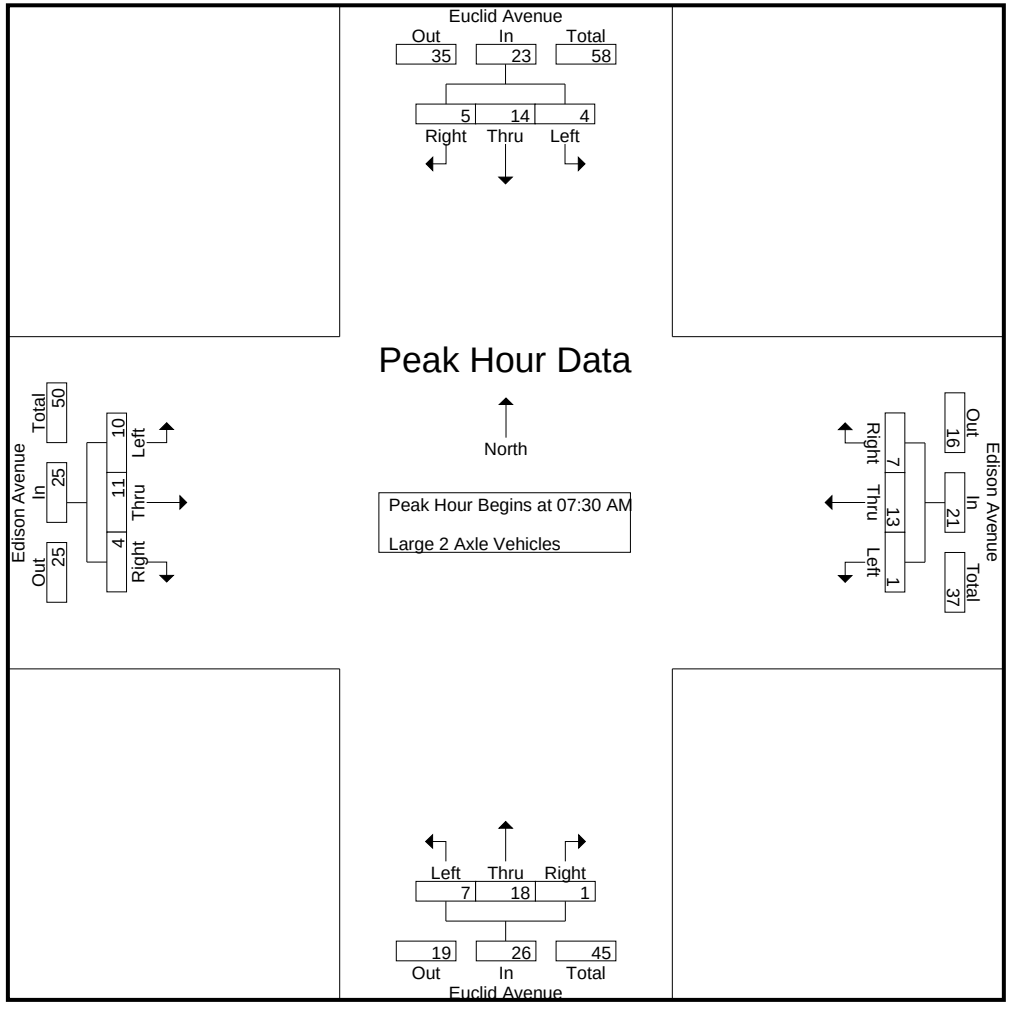
	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	2	1	1	3	0	1	0	0	1	0	3	0	0	3	6	1	0	0	7	1	14	15
06:15 AM	1	5	3	3	9	0	3	1	1	4	1	2	1	0	4	7	3	3	2	13	6	30	36
06:30 AM	0	5	5	0	10	1	2	0	0	3	1	3	0	0	4	6	3	0	0	9	0	26	26
06:45 AM	0	5	4	3	9	1	5	0	0	6	0	3	1	0	4	3	4	2	2	9	5	28	33
Total	1	17	13	7	31	2	11	1	1	14	2	11	2	0	15	22	11	5	4	38	12	98	110
07:00 AM	2	4	0	0	6	2	5	2	0	9	2	12	0	0	14	6	2	3	1	11	1	40	41
07:15 AM	0	8	1	1	9	0	4	2	0	6	1	4	0	0	5	1	1	3	1	5	2	25	27
07:30 AM	3	2	0	0	5	0	3	2	0	5	2	6	1	1	9	1	6	2	1	9	2	28	30
07:45 AM	1	5	2	0	8	1	2	2	0	5	0	1	0	0	1	1	3	1	1	5	1	19	20
Total	6	19	3	1	28	3	14	8	0	25	5	23	1	1	29	9	12	9	4	30	6	112	118
08:00 AM	0	4	2	1	6	0	3	2	1	5	2	5	0	0	7	3	1	0	0	4	2	22	24
08:15 AM	0	3	1	0	4	0	5	1	0	6	3	6	0	0	9	5	1	1	1	7	1	26	27
08:30 AM	0	8	2	0	10	0	2	2	1	4	0	2	0	0	2	4	2	0	0	6	1	22	23
08:45 AM	0	12	3	2	15	1	1	0	0	2	1	9	1	0	11	0	2	3	2	5	4	33	37
Total	0	27	8	3	35	1	11	5	2	17	6	22	1	0	29	12	6	4	3	22	8	103	111
Grand Total	7	63	24	11	94	6	36	14	3	56	13	56	4	1	73	43	29	18	11	90	26	313	339
Apprch %	7.4	67	25.5			10.7	64.3	25			17.8	76.7	5.5			47.8	32.2	20					
Total %	2.2	20.1	7.7		30	1.9	11.5	4.5		17.9	4.2	17.9	1.3		23.3	13.7	9.3	5.8		28.8	7.7	92.3	

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	**3**	2	0	5	0	3	**2**	5	2	**6**	**1**	**9**	1	**6**	**2**	**9**	**28**
07:45 AM	1	**5**	**2**	**8**	**1**	2	2	5	0	1	0	1	1	3	1	5	19
08:00 AM	0	4	2	6	0	3	2	5	2	5	0	7	3	1	0	4	22
08:15 AM	0	3	1	4	0	**5**	1	**6**	**3**	6	0	9	**5**	1	1	7	26
Total Volume	4	14	5	23	1	13	7	21	7	18	1	26	10	11	4	25	95
% App. Total	17.4	60.9	21.7		4.8	61.9	33.3		26.9	69.2	3.8		40	44	16		
PHF	.333	.700	.625	.719	.250	.650	.875	.875	.583	.750	.250	.722	.500	.458	.500	.694	.848

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City of Chino
N/S: Euclid Avenue
E/W: Edison Avenue
Weather: Clear

File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
E/W: Edison Avenue
Weather: Clear

File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	**3**	2	0	5	0	3	**2**	5	2	**6**	**1**	**9**	1	**6**	**2**	**9**	
+15 mins.	1	**5**	**2**	**8**	**1**	2	2	5	0	1	0	1	1	3	1	5	
+30 mins.	0	4	2	6	0	3	2	5	2	5	0	7	3	1	0	4	
+45 mins.	0	3	1	4	0	**5**	1	**6**	**3**	6	0	9	**5**	1	1	7	
Total Volume	4	14	5	23	1	13	7	21	7	18	1	26	10	11	4	25	
% App. Total	17.4	60.9	21.7		4.8	61.9	33.3		26.9	69.2	3.8		40	44	16		
PHF	.333	.700	.625	.719	.250	.650	.875	.875	.583	.750	.250	.722	.500	.458	.500	.694	

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City of Chino
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File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

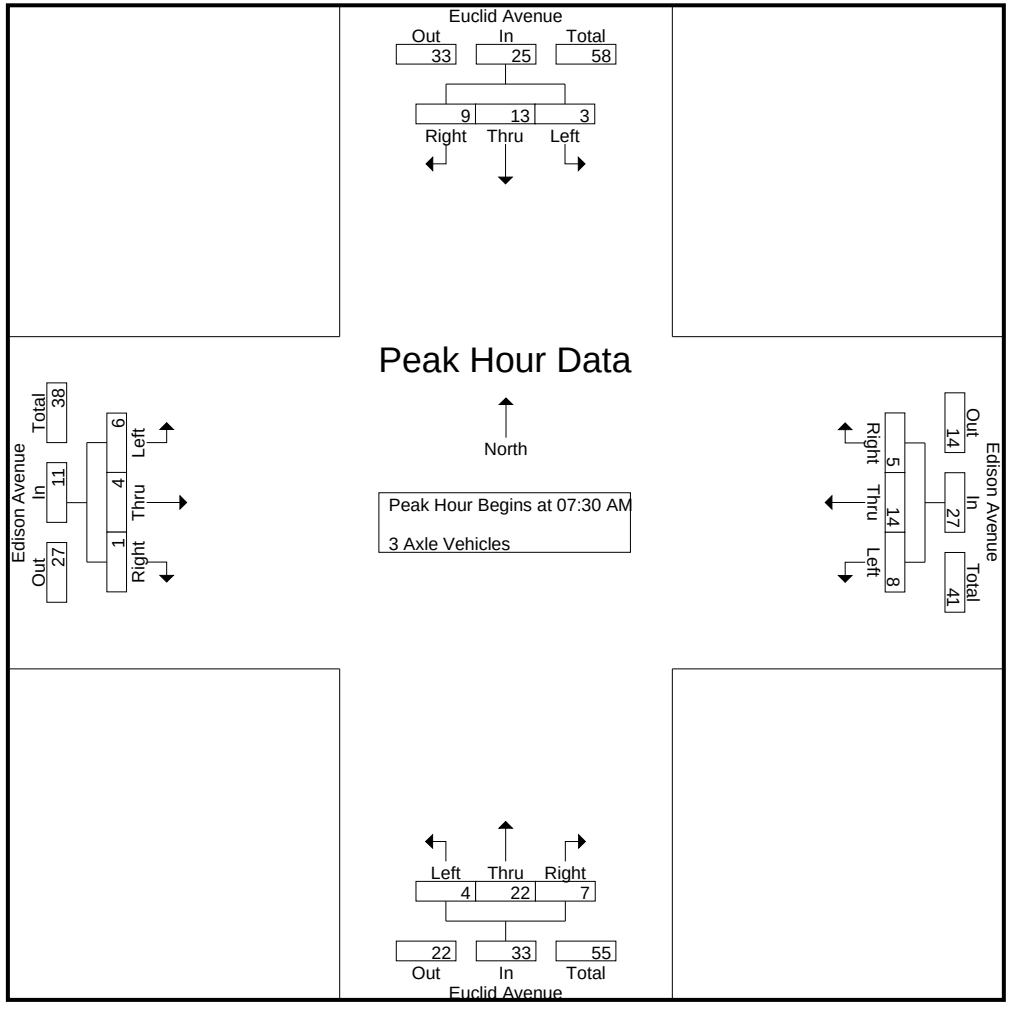
	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	1	3	2	2	6	3	3	1	0	7	3	0	1	1	4	2	1	0	0	3	3	20	23
06:15 AM	0	11	2	2	13	3	3	2	0	8	0	4	0	0	4	2	0	0	0	2	2	27	29
06:30 AM	0	3	3	2	6	2	0	0	0	2	0	1	1	0	2	5	3	1	0	9	2	19	21
06:45 AM	0	11	4	0	15	1	5	0	0	6	1	3	0	0	4	3	3	2	1	8	1	33	34
Total	1	28	11	6	40	9	11	3	0	23	4	8	2	1	14	12	7	3	1	22	8	99	107
07:00 AM	2	5	0	0	7	0	2	1	0	3	0	5	1	0	6	4	0	0	0	4	0	20	20
07:15 AM	0	1	1	1	2	3	2	2	1	7	0	2	2	1	4	2	2	0	0	4	3	17	20
07:30 AM	0	4	2	0	6	2	7	1	0	10	2	4	1	0	7	0	2	0	0	2	0	25	25
07:45 AM	2	1	3	1	6	2	1	1	0	4	1	1	2	0	4	0	1	1	0	2	1	16	17
Total	4	11	6	2	21	7	12	5	1	24	3	12	6	1	21	6	5	1	0	12	4	78	82
08:00 AM	1	4	2	1	7	2	3	1	1	6	0	8	3	0	11	3	0	0	0	3	2	27	29
08:15 AM	0	4	2	1	6	2	3	2	1	7	1	9	1	0	11	3	1	0	0	4	2	28	30
08:30 AM	0	1	1	1	2	4	1	1	1	6	0	7	3	2	10	1	2	0	0	3	4	21	25
08:45 AM	4	7	1	0	12	1	1	2	1	4	0	6	0	0	6	4	0	1	1	5	2	27	29
Total	5	16	6	3	27	9	8	6	4	23	1	30	7	2	38	11	3	1	1	15	10	103	113
Grand Total	10	55	23	11	88	25	31	14	5	70	8	50	15	4	73	29	15	5	2	49	22	280	302
Apprch %	11.4	62.5	26.1			35.7	44.3	20			11	68.5	20.5			59.2	30.6	10.2					
Total %	3.6	19.6	8.2		31.4	8.9	11.1	5		25	2.9	17.9	5.4		26.1	10.4	5.4	1.8		17.5	7.3	92.7	

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	0	**4**	2	6	**2**	**7**	1	**10**	**2**	4	1	7	0	**2**	0	2	25
07:45 AM	**2**	1	**3**	6	2	1	1	4	1	1	2	4	0	1	**1**	2	16
08:00 AM	1	4	2	**7**	2	3	1	6	0	8	**3**	**11**	**3**	0	0	3	27
08:15 AM	0	4	2	6	2	3	**2**	7	1	**9**	1	11	3	1	0	**4**	**28**
Total Volume	3	13	9	25	8	14	5	27	4	22	7	33	6	4	1	11	96
% App. Total	12	52	36		29.6	51.9	18.5		12.1	66.7	21.2		54.5	36.4	9.1		
PHF	.375	.813	.750	.893	1.00	.500	.625	.675	.500	.611	.583	.750	.500	.500	.250	.688	.857

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City of Chino
N/S: Euclid Avenue
E/W: Edison Avenue
Weather: Clear

File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022
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City of Chino
N/S: Euclid Avenue
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File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	0	**4**	2	6	**2**	**7**	1	**10**	**2**	4	1	7	0	**2**	0	2	
+15 mins.	**2**	1	**3**	6	2	1	1	4	1	1	2	4	0	1	**1**	2	
+30 mins.	1	4	2	**7**	2	3	1	6	0	8	**3**	**11**	**3**	0	0	3	
+45 mins.	0	4	2	6	2	3	**2**	7	1	**9**	1	11	3	1	0	**4**	
Total Volume	3	13	9	25	8	14	5	27	4	22	7	33	6	4	1	11	
% App. Total	12	52	36		29.6	51.9	18.5		12.1	66.7	21.2		54.5	36.4	9.1		
PHF	.375	.813	.750	.893	1.000	.500	.625	.675	.500	.611	.583	.750	.500	.500	.250	.688	

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City of Chino
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File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

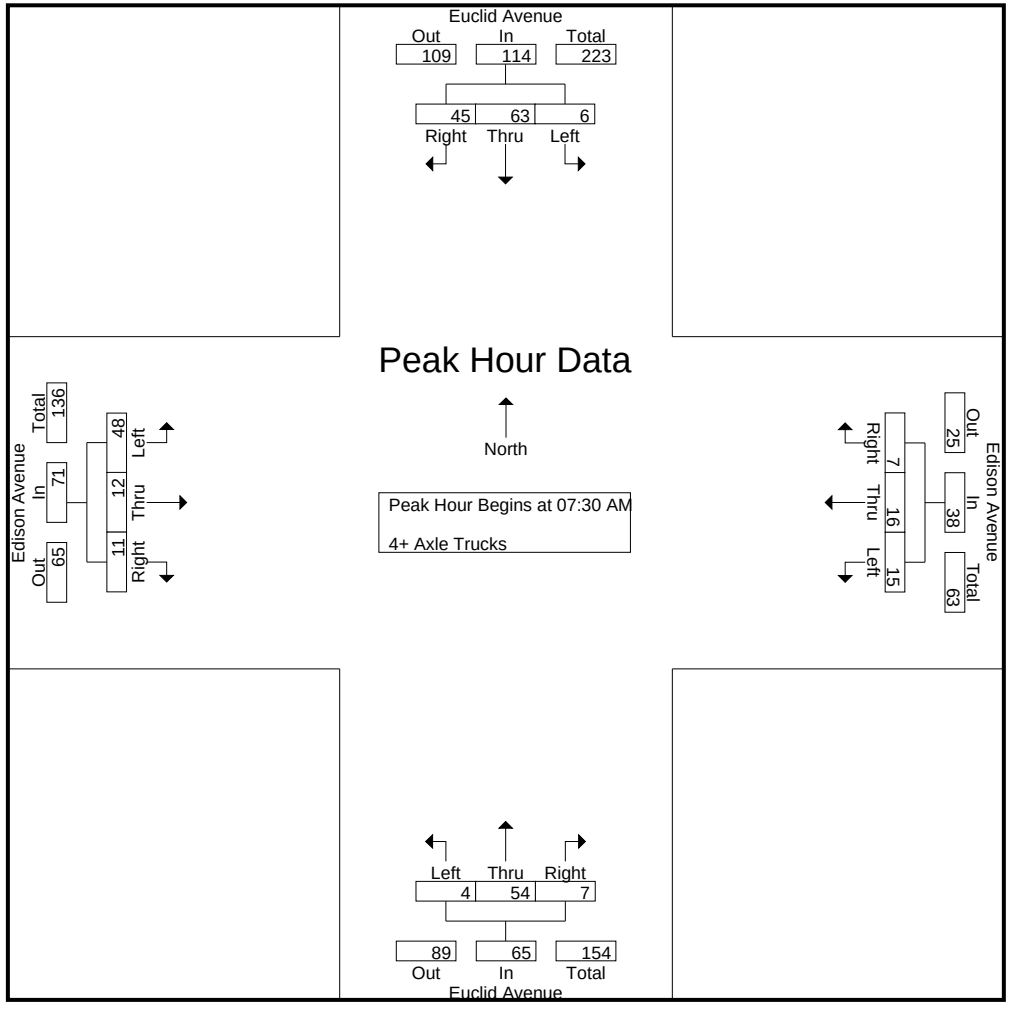
	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
06:00 AM	0	15	5	1	20	4	1	1	0	6	1	9	0	0	10	3	1	3	2	7	3	43	46
06:15 AM	5	11	7	1	23	1	1	1	0	3	1	13	0	0	14	4	0	0	0	4	1	44	45
06:30 AM	3	5	5	2	13	0	4	5	0	9	3	13	1	0	17	4	0	0	0	4	2	43	45
06:45 AM	0	14	11	2	25	3	6	2	0	11	3	18	1	0	22	5	2	0	0	7	2	65	67
Total	8	45	28	6	81	8	12	9	0	29	8	53	2	0	63	16	3	3	2	22	8	195	203
07:00 AM	7	10	10	5	27	3	5	1	0	9	2	11	1	0	14	6	0	1	1	7	6	57	63
07:15 AM	3	14	8	2	25	5	4	6	0	15	2	16	0	0	18	16	1	0	0	17	2	75	77
07:30 AM	2	11	10	4	23	2	4	2	1	8	3	16	2	0	21	11	1	2	2	14	7	66	73
07:45 AM	1	13	13	1	27	4	2	3	0	9	0	14	2	1	16	16	5	4	0	25	2	77	79
Total	13	48	41	12	102	14	15	12	1	41	7	57	5	1	69	49	7	7	3	63	17	275	292
08:00 AM	3	23	10	5	36	6	6	0	0	12	1	12	3	1	16	10	3	2	0	15	6	79	85
08:15 AM	0	16	12	1	28	3	4	2	0	9	0	12	0	0	12	11	3	3	0	17	1	66	67
08:30 AM	2	15	10	0	27	2	5	1	0	8	0	14	0	0	14	8	2	0	0	10	0	59	59
08:45 AM	1	12	8	5	21	2	5	2	0	9	3	9	1	0	13	15	2	1	0	18	5	61	66
Total	6	66	40	11	112	13	20	5	0	38	4	47	4	1	55	44	10	6	0	60	12	265	277
Grand Total	27	159	109	29	295	35	47	26	1	108	19	157	11	2	187	109	20	16	5	145	37	735	772
Apprch %	9.2	53.9	36.9			32.4	43.5	24.1			10.2	84	5.9			75.2	13.8	11					
Total %	3.7	21.6	14.8		40.1	4.8	6.4	3.5		14.7	2.6	21.4	1.5		25.4	14.8	2.7	2.2		19.7	4.8	95.2	

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:30 AM																	
07:30 AM	2	11	10	23	2	4	2	8	**3**	**16**	2	**21**	11	1	2	14	66
07:45 AM	1	13	**13**	27	4	2	**3**	9	0	14	2	16	**16**	**5**	**4**	**25**	77
08:00 AM	**3**	**23**	10	**36**	**6**	**6**	0	**12**	1	12	**3**	16	10	3	2	15	**79**
08:15 AM	0	16	12	28	3	4	2	9	0	12	0	12	11	3	3	17	66
Total Volume	6	63	45	114	15	16	7	38	4	54	7	65	48	12	11	71	288
% App. Total	5.3	55.3	39.5		39.5	42.1	18.4		6.2	83.1	10.8		67.6	16.9	15.5		
PHF	.500	.685	.865	.792	.625	.667	.583	.792	.333	.844	.583	.774	.750	.600	.688	.710	.911

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City of Chino
N/S: Euclid Avenue
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Weather: Clear

File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
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File Name : 18_CHN_Eu_Edi AM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:30 AM to 08:15 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:30 AM				07:30 AM				07:30 AM				07:30 AM				
+0 mins.	2	11	10	23	2	4	2	8	**3**	**16**	2	**21**	11	1	2	14	
+15 mins.	1	13	**13**	27	4	2	**3**	9	0	14	2	16	**16**	**5**	**4**	**25**	
+30 mins.	**3**	**23**	10	**36**	**6**	**6**	0	**12**	1	12	**3**	16	10	3	2	15	
+45 mins.	0	16	12	28	3	4	2	9	0	12	0	12	11	3	3	17	
Total Volume	6	63	45	114	15	16	7	38	4	54	7	65	48	12	11	71	
% App. Total	5.3	55.3	39.5		39.5	42.1	18.4		6.2	83.1	10.8		67.6	16.9	15.5		
PHF	.500	.685	.865	.792	.625	.667	.583	.792	.333	.844	.583	.774	.750	.600	.688	.710	

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City of Chino
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E/W: Edison Avenue
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File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	13	134	34	16	181	5	54	6	0	65	12	138	11	3	161	36	87	24	9	147	28	554	582
04:15 PM	14	127	30	11	171	2	39	11	5	52	16	136	9	4	161	40	87	35	10	162	30	546	576
04:30 PM	12	162	27	14	201	4	37	12	3	53	18	132	10	3	160	42	103	41	19	186	39	600	639
04:45 PM	12	141	28	13	181	3	56	15	2	74	16	128	9	3	153	37	105	29	13	171	31	579	610
Total	51	564	119	54	734	14	186	44	10	244	62	534	39	13	635	155	382	129	51	666	128	2279	2407
05:00 PM	17	135	31	12	183	9	42	13	2	64	18	157	9	4	184	38	97	38	14	173	32	604	636
05:15 PM	14	166	19	11	199	10	50	14	4	74	20	152	2	0	174	41	87	20	4	148	19	595	614
05:30 PM	16	166	22	5	204	2	53	5	2	60	19	140	3	1	162	39	88	37	13	164	21	590	611
05:45 PM	13	162	27	17	202	5	38	4	1	47	19	117	6	1	142	35	72	30	10	137	29	528	557
Total	60	629	99	45	788	26	183	36	9	245	76	566	20	6	662	153	344	125	41	622	101	2317	2418
06:00 PM	18	130	32	13	180	7	31	3	1	41	11	124	3	1	138	35	87	20	8	142	23	501	524
06:15 PM	11	118	28	13	157	5	47	8	1	60	11	106	5	2	122	34	92	29	4	155	20	494	514
06:30 PM	14	87	32	13	133	7	35	7	0	49	8	116	3	0	127	29	69	22	9	120	22	429	451
06:45 PM	6	109	26	12	141	3	44	4	1	51	19	113	6	2	138	25	42	17	6	84	21	414	435
Total	49	444	118	51	611	22	157	22	3	201	49	459	17	5	525	123	290	88	27	501	86	1838	1924
Grand Total	160	1637	336	150	2133	62	526	102	22	690	187	1559	76	24	1822	431	1016	342	119	1789	315	6434	6749
Apprch %	7.5	76.7	15.8			9	76.2	14.8			10.3	85.6	4.2			24.1	56.8	19.1					
Total %	2.5	25.4	5.2		33.2	1	8.2	1.6		10.7	2.9	24.2	1.2		28.3	6.7	15.8	5.3		27.8	4.7	95.3	
Passenger Vehicles	141	1448	203		1903	51	501	87		659	154	1303	51		1527	307	939	285		1640	0	0	5729
% Passenger Vehicles	88.1	88.5	60.4	74	83.4	82.3	95.2	85.3	90.9	92.6	82.4	83.6	67.1	79.2	82.7	71.2	92.4	83.3	91.6	86	0	0	84.9
Large 2 Axle Vehicles	5	42	25		81	0	12	3		15	17	44	9		72	19	26	13		61	0	0	229
% Large 2 Axle Vehicles	3.1	2.6	7.4	6	3.5	0	2.3	2.9	0	2.1	9.1	2.8	11.8	8.3	3.9	4.4	2.6	3.8	2.5	3.2	0	0	3.4
3 Axle Vehicles	4	40	24		77	5	8	8		23	1	44	5		51	19	11	13		46	0	0	197
% 3 Axle Vehicles	2.5	2.4	7.1	6	3.4	8.1	1.5	7.8	9.1	3.2	0.5	2.8	6.6	4.2	2.8	4.4	1.1	3.8	2.5	2.4	0	0	2.9
4+ Axle Trucks	10	107	84		222	6	5	4		15	15	168	11		196	86	40	31		161	0	0	594
% 4+ Axle Trucks	6.2	6.5	25	14	9.7	9.7	1	3.9	0	2.1	8	10.8	14.5	8.3	10.6	20	3.9	9.1	3.4	8.4	0	0	8.8

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City of Chino
N/S: Euclid Avenue
E/W: Edison Avenue
Weather: Clear

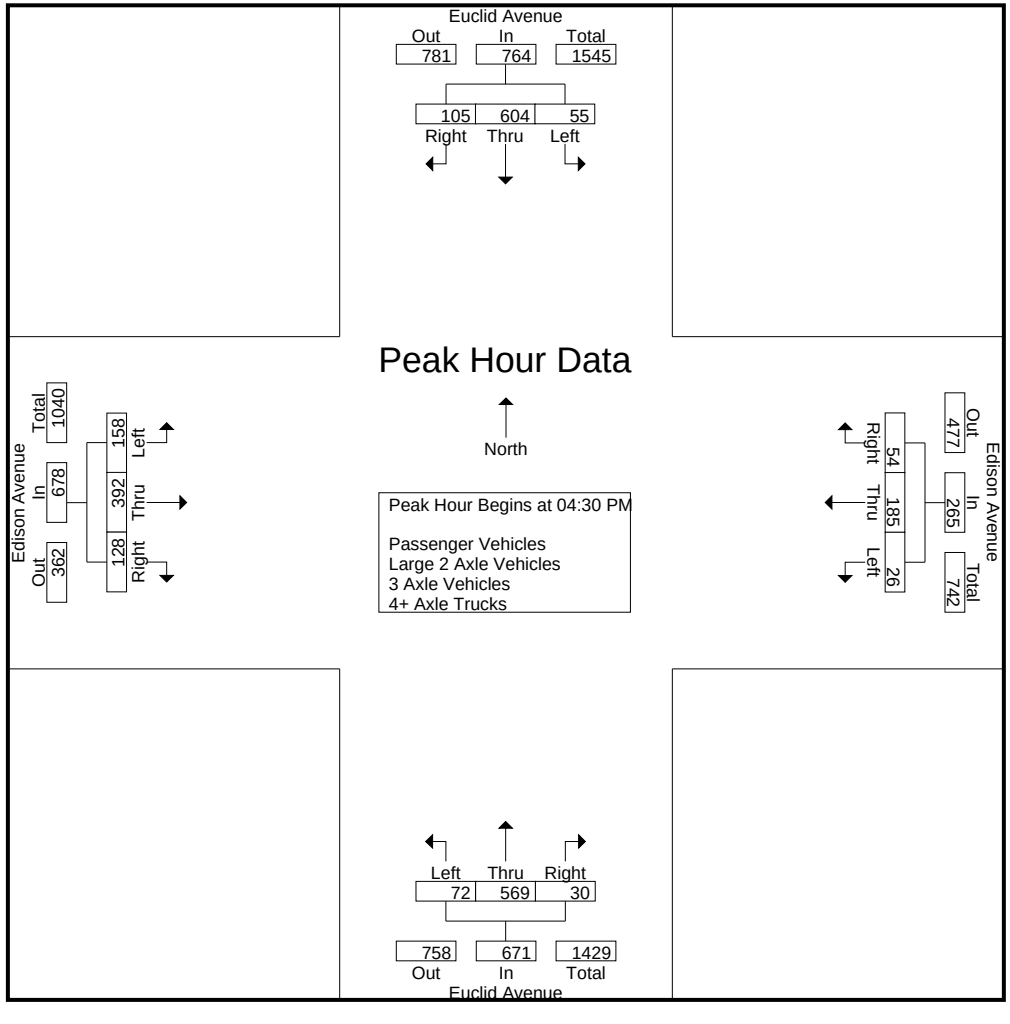
File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	12	162	27	**201**	4	37	12	53	18	132	**10**	160	**42**	103	**41**	**186**	600
04:45 PM	12	141	28	181	3	**56**	**15**	**74**	16	128	9	153	37	**105**	29	171	579
05:00 PM	**17**	135	**31**	183	9	42	13	64	18	**157**	9	**184**	38	97	38	173	**604**
05:15 PM	14	**166**	19	199	**10**	50	14	74	**20**	152	2	174	41	87	20	148	595
Total Volume	55	604	105	764	26	185	54	265	72	569	30	671	158	392	128	678	2378
% App. Total	7.2	79.1	13.7		9.8	69.8	20.4		10.7	84.8	4.5		23.3	57.8	18.9		
PHF	.809	.910	.847	.950	.650	.826	.900	.895	.900	.906	.750	.912	.940	.933	.780	.911	.984

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File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
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City of Chino
N/S: Euclid Avenue
E/W: Edison Avenue
Weather: Clear

File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 4

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 06:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				04:45 PM				04:45 PM				04:15 PM				
+0 mins.	**17**	135	**31**	183	3	**56**	**15**	**74**	16	128	**9**	153	40	87	35	162	
+15 mins.	14	**166**	19	199	9	42	13	64	18	**157**	9	**184**	**42**	103	**41**	**186**	
+30 mins.	16	166	22	**204**	**10**	50	14	74	**20**	152	2	174	37	**105**	29	171	
+45 mins.	13	162	27	202	2	53	5	60	19	140	3	162	38	97	38	173	
Total Volume	60	629	99	788	24	201	47	272	73	577	23	673	157	392	143	692	
% App. Total	7.6	79.8	12.6		8.8	73.9	17.3		10.8	85.7	3.4		22.7	56.6	20.7		
PHF	.882	.947	.798	.966	.600	.897	.783	.919	.913	.919	.639	.914	.935	.933	.872	.930	

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Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- Passenger Vehicles

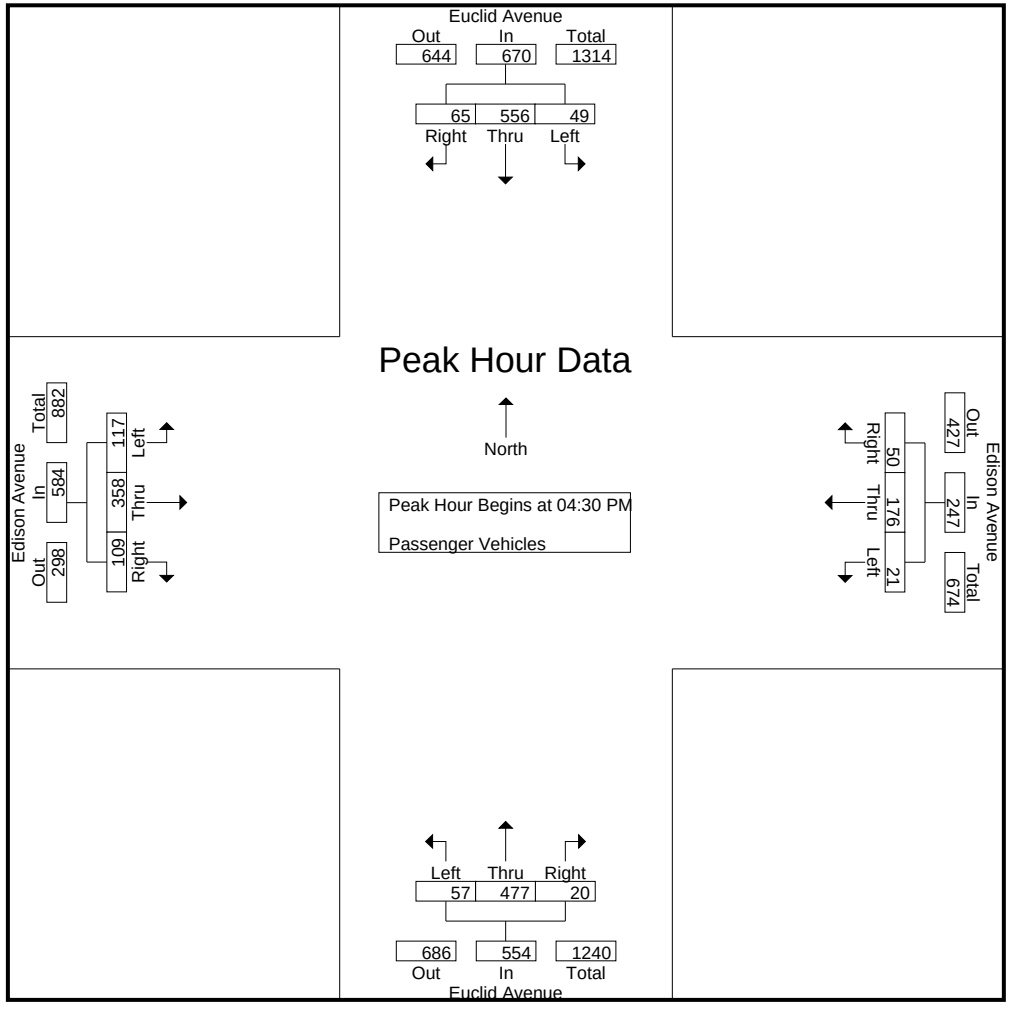
	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	12	122	17	10	151	4	51	4	0	59	9	123	5	2	137	18	77	18	7	113	19	460	479
04:15 PM	11	113	21	11	145	2	37	9	4	48	12	111	6	3	129	28	78	32	9	138	27	460	487
04:30 PM	11	146	14	10	171	4	36	10	3	50	15	107	5	2	127	31	88	35	17	154	32	502	534
04:45 PM	11	130	15	9	156	3	51	14	2	68	13	105	7	1	125	29	96	23	12	148	24	497	521
Total	45	511	67	40	623	13	175	37	9	225	49	446	23	8	518	106	339	108	45	553	102	1919	2021
05:00 PM	15	123	23	11	161	5	41	13	2	59	17	138	7	4	162	31	92	33	13	156	30	538	568
05:15 PM	12	157	13	9	182	9	48	13	4	70	12	127	1	0	140	26	82	18	4	126	17	518	535
05:30 PM	16	149	10	3	175	2	49	4	2	55	15	123	3	1	141	27	81	32	11	140	17	511	528
05:45 PM	13	144	21	14	178	3	37	4	1	44	16	101	6	1	123	22	70	27	10	119	26	464	490
Total	56	573	67	37	696	19	175	34	9	228	60	489	17	6	566	106	325	110	38	541	90	2031	2121
06:00 PM	18	109	27	13	154	5	30	2	1	37	10	111	2	1	123	27	82	14	7	123	22	437	459
06:15 PM	9	90	11	5	110	5	45	7	1	57	11	87	5	2	103	31	87	20	4	138	12	408	420
06:30 PM	10	74	16	8	100	6	33	5	0	44	8	86	1	0	95	25	66	20	9	111	17	350	367
06:45 PM	3	91	15	8	109	3	43	2	0	48	16	84	3	2	103	12	40	13	6	65	16	325	341
Total	40	364	69	34	473	19	151	16	2	186	45	368	11	5	424	95	275	67	26	437	67	1520	1587
Grand Total	141	1448	203	111	1792	51	501	87	20	639	154	1303	51	19	1508	307	939	285	109	1531	259	5470	5729
Apprch %	7.9	80.8	11.3			8	78.4	13.6			10.2	86.4	3.4			20.1	61.3	18.6					
Total %	2.6	26.5	3.7		32.8	0.9	9.2	1.6		11.7	2.8	23.8	0.9		27.6	5.6	17.2	5.2		28	4.5	95.5	

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	11	146	14	171	4	36	10	50	15	107	5	127	**31**	88	**35**	154	502
04:45 PM	11	130	15	156	3	**51**	**14**	68	13	105	**7**	125	29	**96**	23	148	497
05:00 PM	**15**	123	**23**	161	5	41	13	59	**17**	**138**	7	**162**	31	92	33	**156**	**538**
05:15 PM	12	**157**	13	**182**	**9**	48	13	**70**	12	127	1	140	26	82	18	126	518
Total Volume	49	556	65	670	21	176	50	247	57	477	20	554	117	358	109	584	2055
% App. Total	7.3	83	9.7		8.5	71.3	20.2		10.3	86.1	3.6		20	61.3	18.7		
PHF	.817	.885	.707	.920	.583	.863	.893	.882	.838	.864	.714	.855	.944	.932	.779	.936	.955

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City of Chino
N/S: Euclid Avenue
E/W: Edison Avenue
Weather: Clear

File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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City of Chino
N/S: Euclid Avenue
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File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	11	146	14	171	4	36	10	50	15	107	5	127	**31**	88	**35**	154	
+15 mins.	11	130	15	156	3	**51**	**14**	68	13	105	**7**	125	29	**96**	23	148	
+30 mins.	**15**	123	**23**	161	5	41	13	59	**17**	**138**	7	**162**	31	92	33	**156**	
+45 mins.	12	**157**	13	**182**	**9**	48	13	**70**	12	127	1	140	26	82	18	126	
Total Volume	49	556	65	670	21	176	50	247	57	477	20	554	117	358	109	584	
% App. Total	7.3	83	9.7		8.5	71.3	20.2		10.3	86.1	3.6		20	61.3	18.7		
PHF	.817	.885	.707	.920	.583	.863	.893	.882	.838	.864	.714	.855	.944	.932	.779	.936	

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City of Chino
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File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- Large 2 Axle Vehicles

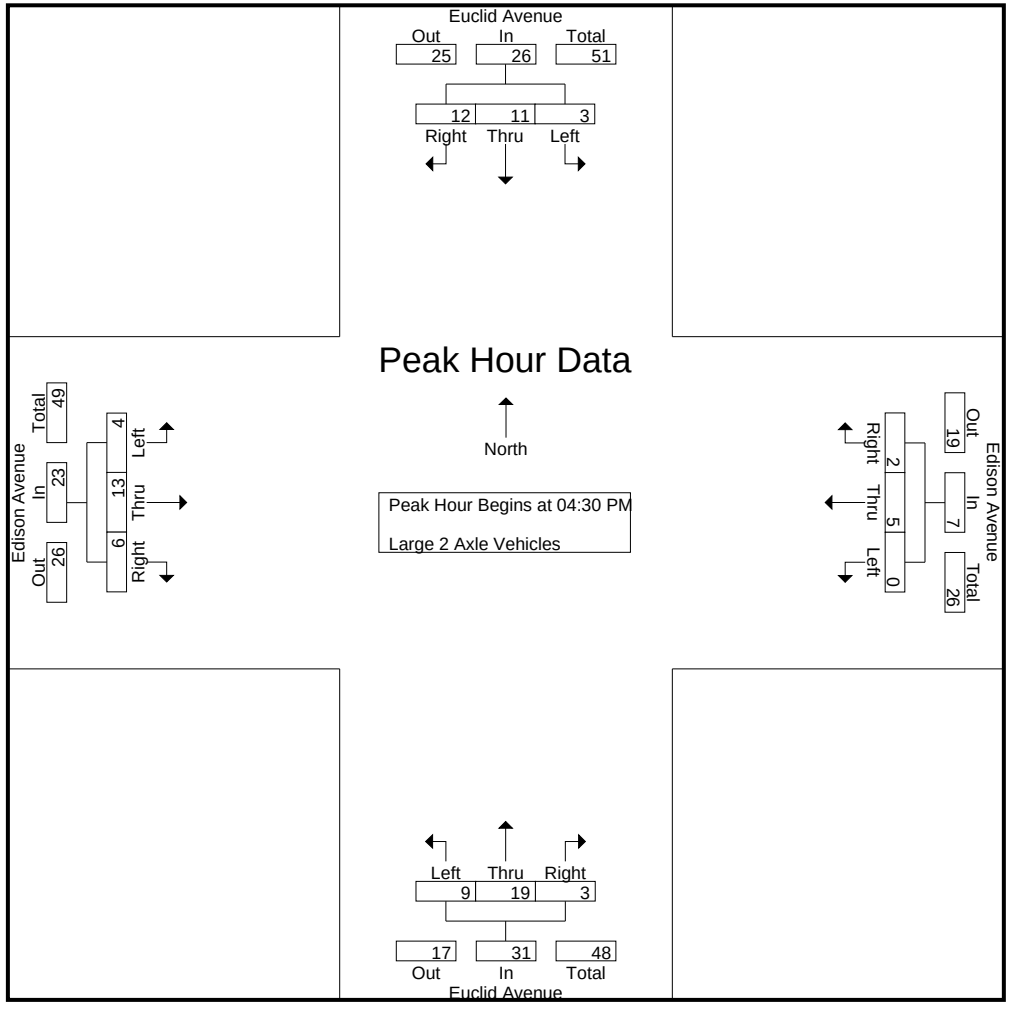
	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	1	6	2	7	0	1	0	0	1	1	3	3	0	7	5	4	2	1	11	3	26	29
04:15 PM	0	3	1	0	4	0	0	0	0	0	1	4	2	1	7	3	1	0	0	4	1	15	16
04:30 PM	1	5	3	1	9	0	1	1	0	2	3	6	2	1	11	1	7	1	1	9	3	31	34
04:45 PM	1	1	4	0	6	0	2	0	0	2	2	6	0	0	8	2	4	3	0	9	0	25	25
Total	2	10	14	3	26	0	4	1	0	5	7	19	7	2	33	11	16	6	2	33	7	97	104
05:00 PM	1	4	3	1	8	0	1	0	0	1	0	4	1	0	5	0	2	2	0	4	1	18	19
05:15 PM	0	1	2	1	3	0	1	1	0	2	4	3	0	0	7	1	0	0	0	1	1	13	14
05:30 PM	0	2	1	1	3	0	3	0	0	3	2	3	0	0	5	2	2	1	1	5	2	16	18
05:45 PM	0	5	0	0	5	0	1	0	0	1	2	4	0	0	6	2	0	0	0	2	0	14	14
Total	1	12	6	3	19	0	6	1	0	7	8	14	1	0	23	5	4	3	1	12	4	61	65
06:00 PM	0	6	0	0	6	0	1	0	0	1	1	2	0	0	3	1	2	0	0	3	0	13	13
06:15 PM	1	10	3	2	14	0	0	1	0	1	0	1	0	0	1	2	3	1	0	6	2	22	24
06:30 PM	0	2	1	0	3	0	1	0	0	1	0	2	0	0	2	0	0	0	0	0	0	6	6
06:45 PM	1	2	1	1	4	0	0	0	0	0	1	6	1	0	8	0	1	3	0	4	1	16	17
Total	2	20	5	3	27	0	2	1	0	3	2	11	1	0	14	3	6	4	0	13	3	57	60
Grand Total	5	42	25	9	72	0	12	3	0	15	17	44	9	2	70	19	26	13	3	58	14	215	229
Apprch %	6.9	58.3	34.7			0	80	20			24.3	62.9	12.9			32.8	44.8	22.4					
Total %	2.3	19.5	11.6		33.5	0	5.6	1.4		7	7.9	20.5	4.2		32.6	8.8	12.1	6		27	6.1	93.9	

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	**1**	**5**	3	**9**	0	1	**1**	**2**	3	**6**	**2**	**11**	1	**7**	1	**9**	**31**
04:45 PM	1	1	**4**	6	0	**2**	0	2	2	6	0	8	**2**	4	**3**	9	25
05:00 PM	1	4	3	8	0	1	0	1	0	4	1	5	0	2	2	4	18
05:15 PM	0	1	2	3	0	1	1	2	**4**	3	0	7	1	0	0	1	13
Total Volume	3	11	12	26	0	5	2	7	9	19	3	31	4	13	6	23	87
% App. Total	11.5	42.3	46.2		0	71.4	28.6		29	61.3	9.7		17.4	56.5	26.1		
PHF	.750	.550	.750	.722	.000	.625	.500	.875	.563	.792	.375	.705	.500	.464	.500	.639	.702

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City of Chino
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File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
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File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	**1**	**5**	3	**9**	0	1	**1**	**2**	3	**6**	**2**	**11**	1	**7**	1	**9**	
+15 mins.	1	1	**4**	6	0	**2**	0	2	2	6	0	8	**2**	4	**3**	9	
+30 mins.	1	4	3	8	0	1	0	1	0	4	1	5	0	2	2	4	
+45 mins.	0	1	2	3	0	1	1	2	**4**	3	0	7	1	0	0	1	
Total Volume	3	11	12	26	0	5	2	7	9	19	3	31	4	13	6	23	
% App. Total	11.5	42.3	46.2		0	71.4	28.6		29	61.3	9.7		17.4	56.5	26.1		
PHF	.750	.550	.750	.722	.000	.625	.500	.875	.563	.792	.375	.705	.500	.464	.500	.639	

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City of Chino
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File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022
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Groups Printed- 3 Axle Vehicles

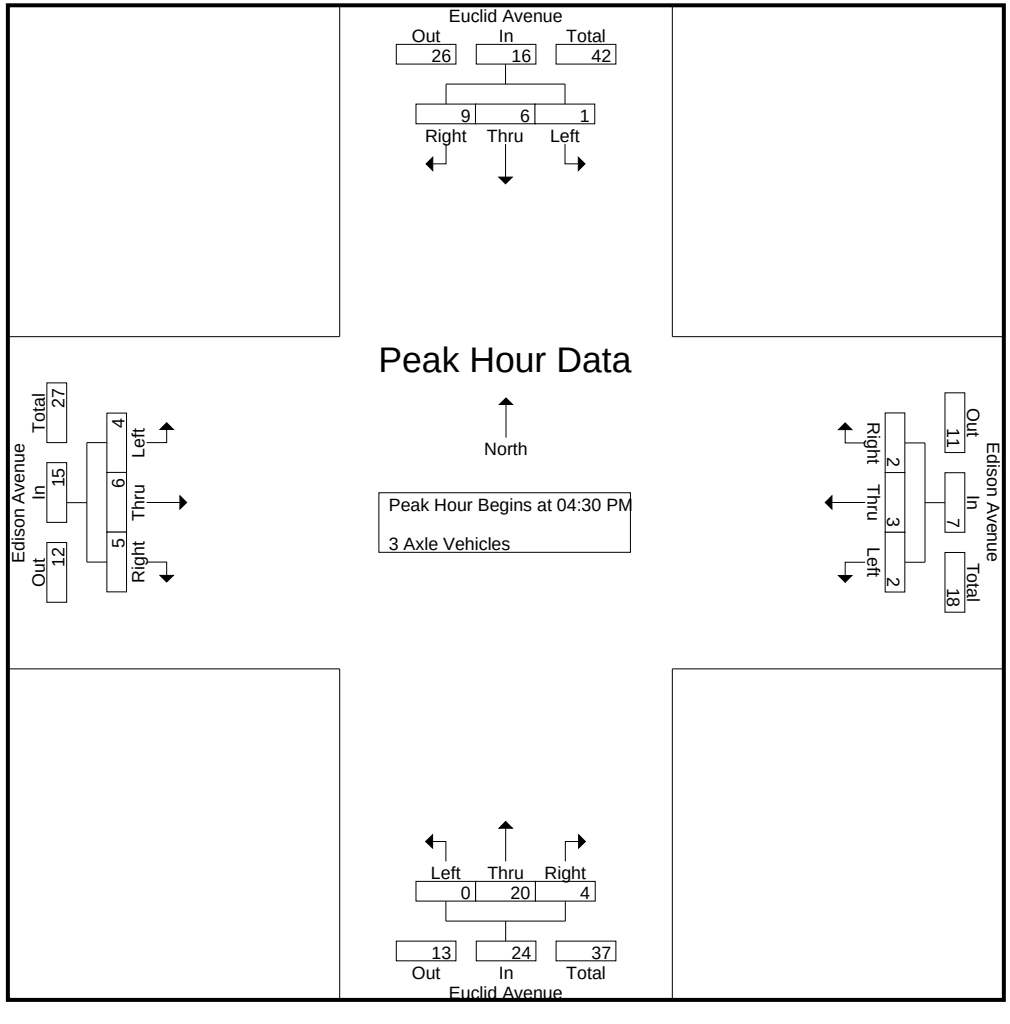
	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	4	3	3	7	0	0	1	0	1	0	4	1	0	5	1	0	2	1	3	4	16	20
04:15 PM	1	1	2	0	4	0	1	1	1	2	0	7	0	0	7	1	2	0	0	3	1	16	17
04:30 PM	0	1	3	1	4	0	0	1	0	1	0	8	1	0	9	1	3	2	1	6	2	20	22
04:45 PM	0	2	3	2	5	0	2	1	0	3	0	5	1	1	6	1	1	0	0	2	3	16	19
Total	1	8	11	6	20	0	3	4	1	7	0	24	3	1	27	4	6	4	2	14	10	68	78
05:00 PM	0	2	2	0	4	2	0	0	0	2	0	5	1	0	6	2	1	2	1	5	1	17	18
05:15 PM	1	1	1	0	3	0	1	0	0	1	0	2	1	0	3	0	1	1	0	2	0	9	9
05:30 PM	0	3	2	0	5	0	0	1	0	1	1	2	0	0	3	4	1	1	0	6	0	15	15
05:45 PM	0	2	2	1	4	2	0	0	0	2	0	1	0	0	1	3	1	0	0	4	1	11	12
Total	1	8	7	1	16	4	1	1	0	6	1	10	2	0	13	9	4	4	1	17	2	52	54
06:00 PM	0	6	1	0	7	0	0	1	0	1	0	2	0	0	2	1	0	3	0	4	0	14	14
06:15 PM	1	9	2	1	12	0	2	0	0	2	0	5	0	0	5	0	0	2	0	2	1	21	22
06:30 PM	0	3	3	1	6	1	1	1	0	3	0	1	0	0	1	0	1	0	0	1	1	11	12
06:45 PM	1	6	0	0	7	0	1	1	1	2	0	2	0	0	2	5	0	0	0	5	1	16	17
Total	2	24	6	2	32	1	4	3	1	8	0	10	0	0	10	6	1	5	0	12	3	62	65
Grand Total	4	40	24	9	68	5	8	8	2	21	1	44	5	1	50	19	11	13	3	43	15	182	197
Apprch %	5.9	58.8	35.3			23.8	38.1	38.1			2	88	10			44.2	25.6	30.2					
Total %	2.2	22	13.2		37.4	2.7	4.4	4.4		11.5	0.5	24.2	2.7		27.5	10.4	6	7.1		23.6	7.6	92.4	

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	1	**3**	4	0	0	**1**	1	0	**8**	**1**	**9**	1	**3**	**2**	**6**	**20**
04:45 PM	0	**2**	3	**5**	0	**2**	1	**3**	0	5	1	6	1	1	0	2	16
05:00 PM	0	2	2	4	**2**	0	0	2	0	5	1	6	**2**	1	2	5	17
05:15 PM	**1**	1	1	3	0	1	0	1	0	2	1	3	0	1	1	2	9
Total Volume	1	6	9	16	2	3	2	7	0	20	4	24	4	6	5	15	62
% App. Total	6.2	37.5	56.2		28.6	42.9	28.6		0	83.3	16.7		26.7	40	33.3		
PHF	.250	.750	.750	.800	.250	.375	.500	.583	.000	.625	1.00	.667	.500	.500	.625	.625	.775

Counts Unlimited, Inc.
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(951)268-6268

City of Chino
N/S: Euclid Avenue
E/W: Edison Avenue
Weather: Clear

File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022
Page No : 2



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File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	0	1	**3**	4	0	0	**1**	1	0	**8**	**1**	**9**	1	**3**	**2**	**6**	
+15 mins.	0	**2**	3	**5**	0	**2**	1	**3**	0	5	1	6	1	1	0	2	
+30 mins.	0	2	2	4	**2**	0	0	2	0	5	1	6	**2**	1	2	5	
+45 mins.	**1**	1	1	3	0	1	0	1	0	2	1	3	0	1	1	2	
Total Volume	1	6	9	16	2	3	2	7	0	20	4	24	4	6	5	15	
% App. Total	6.2	37.5	56.2		28.6	42.9	28.6		0	83.3	16.7		26.7	40	33.3		
PHF	.250	.750	.750	.800	.250	.375	.500	.583	.000	.625	1.000	.667	.500	.500	.625	.625	

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Site Code : 05122422
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Page No : 1

Groups Printed- 4+ Axle Trucks

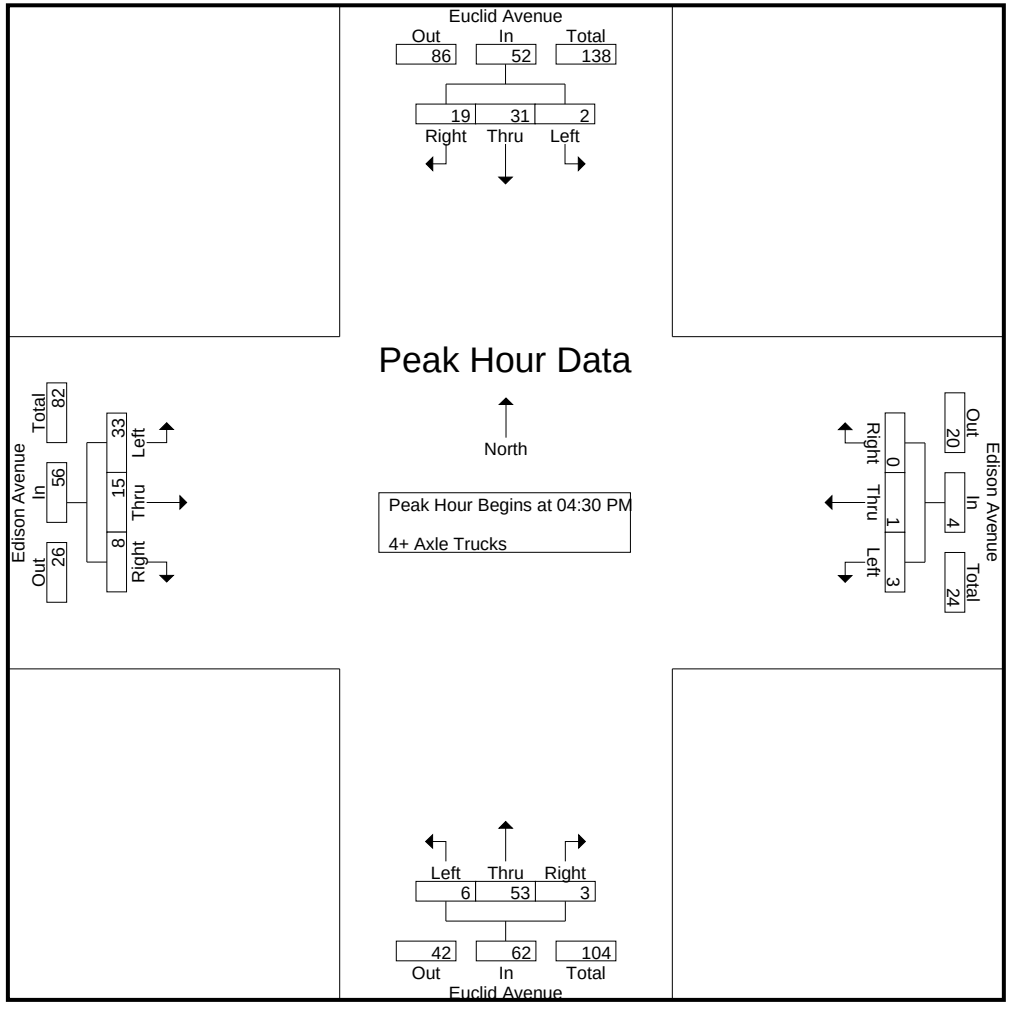
	Euclid Avenue Southbound					Edison Avenue Westbound					Euclid Avenue Northbound					Edison Avenue Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	1	7	8	1	16	1	2	1	0	4	2	8	2	1	12	12	6	2	0	20	2	52	54
04:15 PM	2	10	6	0	18	0	1	1	0	2	3	14	1	0	18	8	6	3	1	17	1	55	56
04:30 PM	0	10	7	2	17	0	0	0	0	0	0	11	2	0	13	9	5	3	0	17	2	47	49
04:45 PM	0	8	6	2	14	0	1	0	0	1	1	12	1	1	14	5	4	3	1	12	4	41	45
Total	3	35	27	5	65	1	4	2	0	7	6	45	6	2	57	34	21	11	2	66	9	195	204
05:00 PM	1	6	3	0	10	2	0	0	0	2	1	10	0	0	11	5	2	1	0	8	0	31	31
05:15 PM	1	7	3	1	11	1	0	0	0	1	4	20	0	0	24	14	4	1	0	19	1	55	56
05:30 PM	0	12	9	1	21	0	1	0	0	1	1	12	0	0	13	6	4	3	1	13	2	48	50
05:45 PM	0	11	4	2	15	0	0	0	0	0	1	11	0	0	12	8	1	3	0	12	2	39	41
Total	2	36	19	4	57	3	1	0	0	4	7	53	0	0	60	33	11	8	1	52	5	173	178
06:00 PM	0	9	4	0	13	2	0	0	0	2	0	9	1	0	10	6	3	3	1	12	1	37	38
06:15 PM	0	9	12	5	21	0	0	0	0	0	0	13	0	0	13	1	2	6	0	9	5	43	48
06:30 PM	4	8	12	4	24	0	0	1	0	1	0	27	2	0	29	4	2	2	0	8	4	62	66
06:45 PM	1	10	10	3	21	0	0	1	0	1	2	21	2	0	25	8	1	1	0	10	3	57	60
Total	5	36	38	12	79	2	0	2	0	4	2	70	5	0	77	19	8	12	1	39	13	199	212
Grand Total	10	107	84	21	201	6	5	4	0	15	15	168	11	2	194	86	40	31	4	157	27	567	594
Apprch %	5	53.2	41.8			40	33.3	26.7			7.7	86.6	5.7			54.8	25.5	19.7					
Total %	1.8	18.9	14.8		35.4	1.1	0.9	0.7		2.6	2.6	29.6	1.9		34.2	15.2	7.1	5.5		27.7	4.5	95.5	

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:30 PM																	
04:30 PM	0	**10**	**7**	**17**	0	0	0	0	0	11	**2**	13	9	**5**	**3**	17	47
04:45 PM	0	8	6	14	0	**1**	0	1	1	12	1	14	5	4	3	12	41
05:00 PM	**1**	6	3	10	**2**	0	0	**2**	1	10	0	11	5	2	1	8	31
05:15 PM	1	7	3	11	1	0	0	1	**4**	**20**	0	**24**	**14**	4	1	**19**	**55**
Total Volume	2	31	19	52	3	1	0	4	6	53	3	62	33	15	8	56	174
% App. Total	3.8	59.6	36.5		75	25	0		9.7	85.5	4.8		58.9	26.8	14.3		
PHF	.500	.775	.679	.765	.375	.250	.000	.500	.375	.663	.375	.646	.589	.750	.667	.737	.791

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City of Chino
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Weather: Clear

File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022
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City of Chino
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File Name : 18_CHN_Eu_Edi PM
Site Code : 05122422
Start Date : 5/10/2022

	Euclid Avenue Southbound				Edison Avenue Westbound				Euclid Avenue Northbound				Edison Avenue Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:30 PM				04:30 PM				04:30 PM				04:30 PM				
+0 mins.	0	**10**	**7**	**17**	0	0	0	0	0	11	**2**	13	9	**5**	**3**	17	
+15 mins.	0	8	6	14	0	**1**	0	1	1	12	1	14	5	4	3	12	
+30 mins.	**1**	6	3	10	**2**	0	0	**2**	1	10	0	11	5	2	1	8	
+45 mins.	1	7	3	11	1	0	0	1	**4**	**20**	0	**24**	**14**	4	1	**19**	
Total Volume	2	31	19	52	3	1	0	4	6	53	3	62	33	15	8	56	
% App. Total	3.8	59.6	36.5		75	25	0		9.7	85.5	4.8		58.9	26.8	14.3		
PHF	.500	.775	.679	.765	.375	.250	.000	.500	.375	.663	.375	.646	.589	.750	.667	.737	

Location: Chino
N/S: Euclid Avenue
E/W: Edison Avenue

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg Euclid Avenue Pedestrians	East Leg Edison Avenue Pedestrians	South Leg Euclid Avenue Pedestrians	West Leg Edison Avenue Pedestrians	
6:00 AM	0	0	0	0	0
6:15 AM	0	0	0	0	0
6:30 AM	0	0	0	1	1
6:45 AM	0	0	0	0	0
7:00 AM	0	0	0	0	0
7:15 AM	0	1	0	0	1
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	1	0	1	2

	North Leg Euclid Avenue Pedestrians	East Leg Edison Avenue Pedestrians	South Leg Euclid Avenue Pedestrians	West Leg Edison Avenue Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	1	1
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	1	1	1	1	4
5:45 PM	0	0	0	0	0
6:00 PM	0	0	0	0	0
6:15 PM	0	0	0	0	0
6:30 PM	0	0	0	0	0
6:45 PM	0	0	0	0	0
TOTAL VOLUMES:	1	1	1	2	5

Counts Unlimited, Inc.
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951-268-6268

Location: Chino
N/S: Euclid Avenue
E/W: Edison Avenue

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound Euclid Avenue			Westbound Edison Avenue			Northbound Euclid Avenue			Eastbound Edison Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
6:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	2	0	0	0	0	0	0	0	0	0	0	2

	Southbound Euclid Avenue			Westbound Edison Avenue			Northbound Euclid Avenue			Eastbound Edison Avenue			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	1	1	0	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	1	0	0	0	0	0	0	0	0	0	1
6:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
6:15 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
6:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
6:45 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
TOTAL VOLUMES:	0	1	1	0	2	0	0	1	1	0	0	0	6

INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 29, 22	LOCATION:	Ontario	PROJECT #: SC3761
	NORTH & SOUTH:	Euclid	LOCATION #: 1
	EAST & WEST:	Eucalyptus	CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

	NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Eucalyptus)			WESTBOUND (Eucalyptus)				U-TURNS					RTOR			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 1	EL 1	ET 1	ER 1	WL 1	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL	NRR 0	SRR 0	ERR 0	WRR 0
AM 7:00 AM	24	133	2	7	195	5	7	4	21	4	32	3	437	0	2	0	0	2	0	0	16	0
7:15 AM	35	124	2	4	173	11	10	5	26	8	31	6	435	0	1	0	0	1	1	5	17	1
7:30 AM	38	176	1	4	172	3	14	7	33	5	32	6	491	1	1	0	0	2	0	1	21	3
7:45 AM	36	157	4	4	208	5	15	4	29	6	34	5	507	0	2	0	0	2	1	2	17	1
8:00 AM	31	134	2	7	171	10	13	3	33	4	39	3	450	2	1	0	0	3	0	3	24	1
8:15 AM	28	142	2	7	167	2	9	5	25	5	21	6	419	0	2	0	0	2	0	0	18	3
8:30 AM	31	153	2	10	170	5	8	3	20	3	18	7	430	0	2	0	0	2	1	0	12	4
8:45 AM	32	145	3	6	139	5	14	4	20	4	16	4	392	0	0	0	0	0	1	1	14	3
VOLUMES	255	1,164	18	49	1,395	46	90	35	207	39	223	40	3,561	3	11	0	0	14	4	12	139	16
APPROACH %	18%	81%	1%	3%	94%	3%	27%	11%	62%	13%	74%	13%										
APP/DEPART	1,437	/	1,305	1,490	/	1,644	332	/	91	302	/	521	0									
BEGIN PEAK HR		7:15 AM																				
VOLUMES	140	591	9	19	724	29	52	19	121	23	136	20	1,883						0	0	0	0
APPROACH %	19%	80%	1%	2%	94%	4%	27%	10%	63%	13%	76%	11%										
PEAK HR FACTOR		0.860			0.889			0.889			0.973		0.929									
APP/DEPART	740	/	668	772	/	871	192	/	42	179	/	302	0									
PM 04:00 PM	17	211	4	5	185	6	5	21	30	0	6	2	492	0	0	0	0	0	1	0	18	1
4:15 PM	14	206	2	8	199	10	6	25	35	1	4	3	513	0	2	0	0	2	0	3	25	1
4:30 PM	17	211	4	9	187	7	3	27	42	1	4	3	515	0	2	0	0	2	1	1	29	0
4:45 PM	18	180	2	12	232	11	6	28	47	0	6	3	545	0	3	1	0	4	0	1	28	1
5:00 PM	21	188	6	6	239	13	7	34	39	1	5	2	561	0	1	0	0	1	2	4	21	1
5:15 PM	20	195	5	9	217	10	9	31	47	2	5	3	553	0	1	0	0	1	0	3	24	1
5:30 PM	24	192	4	9	248	13	8	34	43	2	5	0	582	0	3	0	0	3	0	3	18	0
5:45 PM	30	130	12	5	217	10	13	25	34	1	9	0	486	2	0	1	0	3	3	1	17	0
VOLUMES	161	1,513	39	63	1,724	80	57	225	317	8	44	16	4,247	2	12	2	0	16	7	16	180	5
APPROACH %	9%	88%	2%	3%	92%	4%	10%	38%	53%	12%	65%	24%										
APP/DEPART	1,713	/	1,596	1,867	/	2,051	599	/	315	68	/	285	0									
BEGIN PEAK HR		4:45 PM																				
VOLUMES	83	755	17	36	936	47	30	127	176	5	21	8	2,241						0	0	0	0
APPROACH %	10%	88%	2%	4%	92%	5%	9%	38%	53%	15%	62%	24%										
PEAK HR FACTOR		0.972			0.944			0.957			0.850		0.963									
APP/DEPART	855	/	800	1,019	/	1,117	333	/	172	34	/	152	0									

Euclid

NORTH SIDE

Eucalyptus WEST SIDE EAST SIDE **Eucalyptus**

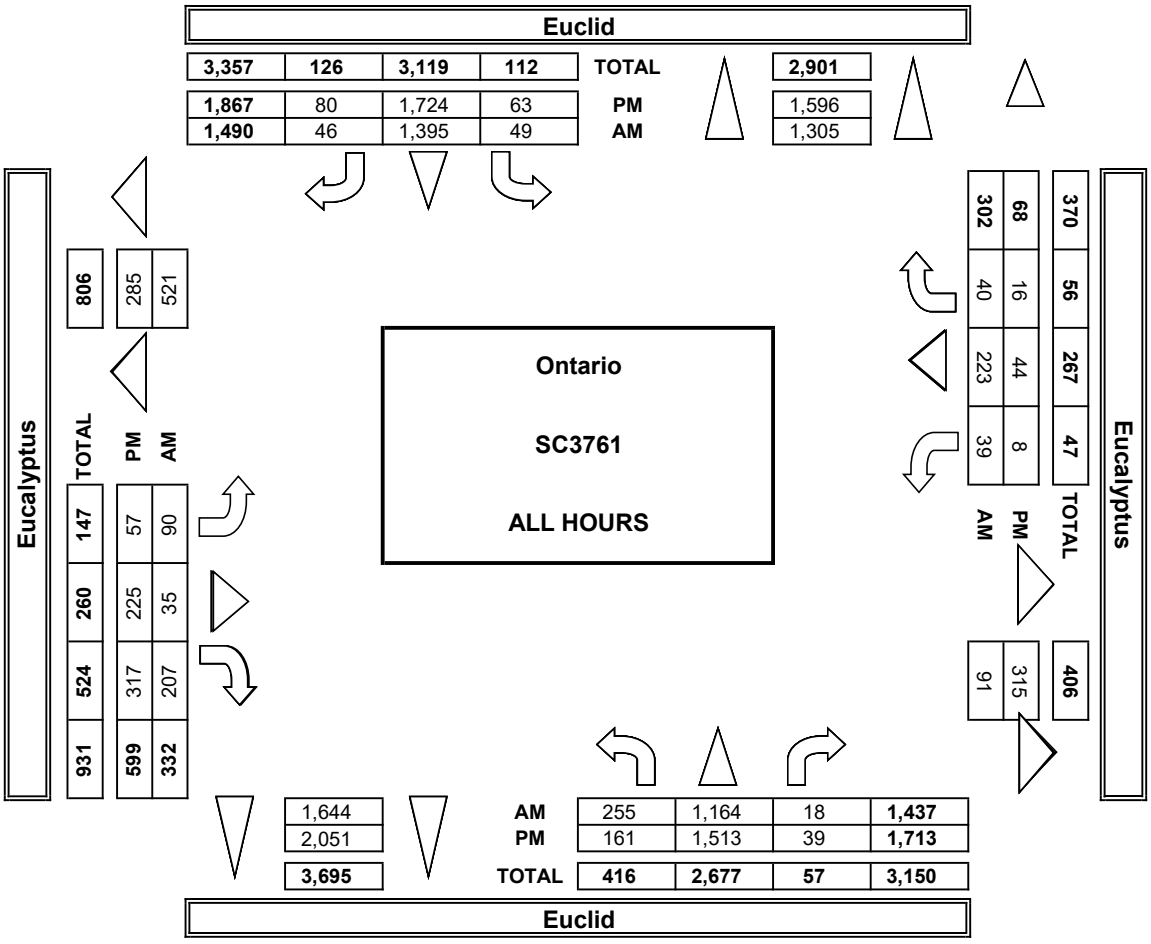
SOUTH SIDE

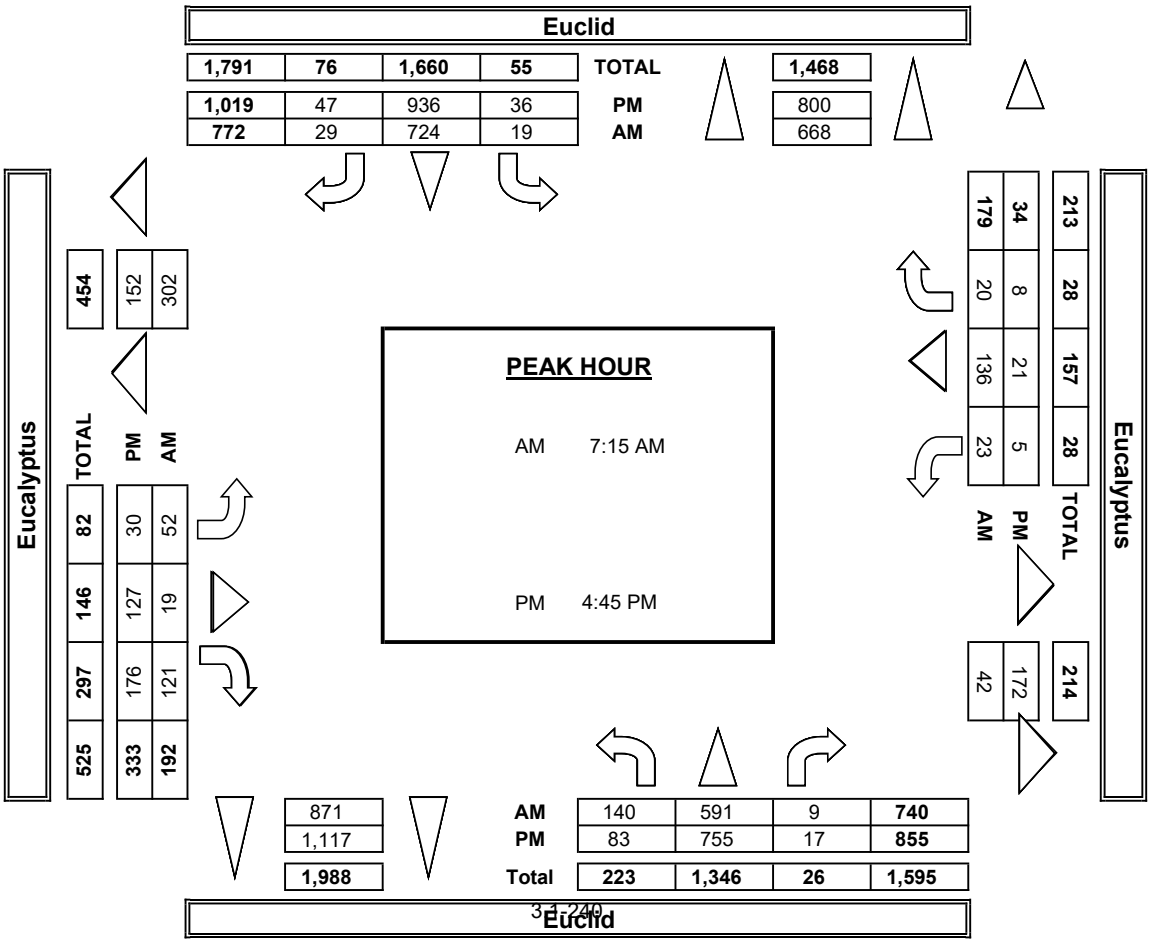
Euclid

	ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM 7:00 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
7:15 AM	0	2	0	0	2	0	1	0	0	1	0	1	0	0	1
7:30 AM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
7:45 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	1	1
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	1	1	0	0	2	0	0	0	0	0	1	1	0	0	2
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1	5	0	1	7	0	2	0	0	2	1	3	0	1	5
PM 4:00 PM	1	1	0	0	2	0	0	0	0	0	1	1	0	0	2
4:15 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0
5:00 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	1	0	1	0	0	1	0	1	0	0	0	0	0
TOTAL	1	4	2	0	7	0	0	2	0	2	1	4	0	0	5

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	1
TUESDAY	EAST & WEST:	Eucalyptus	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

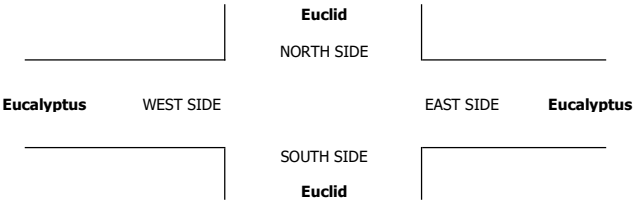
	NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Eucalyptus)			WESTBOUND (Eucalyptus)			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 1	EL 1	ET 1	ER 1	WL 1	WT 1	WR 0	TOTAL
7:00 AM	24	101	2	6	141	3	6	4	20	4	30	2	343
7:15 AM	32	104	2	3	128	8	8	5	21	6	31	1	349
7:30 AM	36	147	1	4	131	0	14	6	32	5	32	3	411
7:45 AM	35	131	1	2	157	3	14	4	27	6	33	3	416
8:00 AM	30	97	2	6	143	8	12	2	28	2	36	1	367
8:15 AM	25	105	2	6	125	2	8	5	23	4	19	2	326
8:30 AM	27	110	0	7	126	3	8	3	19	2	18	5	328
8:45 AM	31	108	3	3	100	1	14	3	15	4	16	3	301
VOLUMES	240	903	13	37	1,051	28	84	32	185	33	215	20	2,841
APPROACH %	21%	78%	1%	3%	94%	3%	28%	11%	61%	12%	80%	7%	
APP/DEPART	1,156	/	1,018	1,116	/	1,272	301	/	71	268	/	480	0
BEGIN PEAK HR		7:15 AM											
VOLUMES	130	479	6	10	559	19	48	17	108	19	132	8	1,543
APPROACH %	21%	78%	1%	2%	94%	3%	28%	10%	62%	12%	83%	5%	
PEAK HR FACTOR		0.840			0.915			0.832			0.946		0.927
APP/DEPART	618	/	540	593	/	689	173	/	33	159	/	281	0
04:00 PM	14	181	1	3	160	6	4	21	29	0	6	2	427
4:15 PM	13	169	2	6	169	10	6	25	34	1	4	3	442
4:30 PM	16	181	3	5	162	7	3	27	39	1	4	3	451
4:45 PM	17	157	2	8	201	10	6	28	44	0	6	3	482
5:00 PM	20	162	6	5	210	12	6	33	36	1	5	2	498
5:15 PM	16	157	5	8	191	9	8	29	47	2	4	1	477
5:30 PM	23	168	3	6	223	12	6	33	41	2	5	0	522
5:45 PM	28	108	11	5	194	9	12	25	33	0	8	0	433
VOLUMES	147	1,283	33	46	1,510	75	51	221	303	7	42	14	3,732
APPROACH %	10%	88%	2%	3%	93%	5%	9%	38%	53%	11%	67%	22%	
APP/DEPART	1,463	/	1,356	1,631	/	1,822	575	/	290	63	/	264	0
BEGIN PEAK HR		4:45 PM											
VOLUMES	76	644	16	20	825	43	25	123	168	5	20	6	1,979
APPROACH %	10%	88%	2%	2%	92%	5%	8%	39%	53%	16%	65%	19%	
PEAK HR FACTOR		0.948			0.928			0.943			0.861		0.948
APP/DEPART	736	/	682	895	/	998	317	/	159	31	/	140	0

U-TURNS

	NB	SB	EB	WB	TTL
AM 7:00 AM	0	2	0	0	2
AM 7:15 AM	0	1	0	0	1
AM 7:30 AM	1	1	0	0	2
AM 7:45 AM	0	2	0	0	2
AM 8:00 AM	2	1	0	0	3
AM 8:15 AM	0	2	0	0	2
AM 8:30 AM	0	2	0	0	2
AM 8:45 AM	0	0	0	0	0
AM TOTAL	3	11	0	0	14
PM 04:00 PM	0	0	0	0	0
PM 4:15 PM	0	2	0	0	2
PM 4:30 PM	0	1	0	0	1
PM 4:45 PM	0	3	1	0	4
PM 5:00 PM	0	1	0	0	1
PM 5:15 PM	0	0	0	0	0
PM 5:30 PM	0	3	0	0	3
PM 5:45 PM	2	0	1	0	3
PM TOTAL	2	10	2	0	14

RTOR

	NRR	SRR	ERR	WRR
AM 7:00 AM	0	0	16	0
AM 7:15 AM	1	5	15	0
AM 7:30 AM	0	0	20	3
AM 7:45 AM	0	2	17	0
AM 8:00 AM	0	3	22	0
AM 8:15 AM	0	0	17	2
AM 8:30 AM	0	0	12	3
AM 8:45 AM	1	0	12	3
AM TOTAL	2	10	131	11
AM PEAK HR	1	10	74	3
PM 04:00 PM	1	0	18	1
PM 4:15 PM	0	3	25	1
PM 4:30 PM	1	1	27	0
PM 4:45 PM	0	1	27	1
PM 5:00 PM	2	4	20	1
PM 5:15 PM	0	3	24	1
PM 5:30 PM	0	3	17	0
PM 5:45 PM	3	1	17	0
PM TOTAL	7	16	175	5
PM PEAK HR	2	11	88	3



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	1
TUESDAY	EAST & WEST:	Eucalyptus	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Eucalyptus)			WESTBOUND (Eucalyptus)			
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 1	EL 1	ET 1	ER 1	WL 1	WT 1	WR 0	TOTAL
AM	7:00 AM	0	11	0	1	15	1	0	0	1	0	2	0	31
	7:15 AM	2	5	0	0	13	2	1	0	2	1	0	1	27
	7:30 AM	1	9	0	0	18	2	0	0	1	0	0	0	31
	7:45 AM	1	9	0	0	12	1	0	0	1	0	1	0	25
	8:00 AM	1	5	0	0	6	1	0	0	5	1	1	0	20
	8:15 AM	2	6	0	1	4	0	0	0	2	0	2	2	19
	8:30 AM	3	10	0	1	12	1	0	0	1	0	0	0	28
	8:45 AM	0	9	0	0	4	1	0	1	5	0	0	0	20
	VOLUMES	10	64	0	3	84	9	1	1	18	2	6	3	201
	APPROACH %	14%	86%	0%	3%	88%	9%	5%	5%	90%	18%	55%	27%	
	APP/DEPART	74	/	68	96	/	104	20	/	4	11	/	25	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	5	28	0	0	49	6	1	0	9	2	2	1	103
	APPROACH %	15%	85%	0%	0%	89%	11%	10%	0%	90%	40%	40%	20%	
	PEAK HR FACTOR		0.825			0.688			0.500			0.625		0.831
	APP/DEPART	33	/	30	55	/	60	10	/	0	5	/	13	0
PM	04:00 PM	3	11	2	0	6	0	0	0	1	0	0	0	23
	4:15 PM	1	13	0	0	11	0	0	0	0	0	0	0	25
	4:30 PM	1	5	1	0	7	0	0	0	2	0	0	0	16
	4:45 PM	1	10	0	0	7	0	0	0	3	0	0	0	21
	5:00 PM	0	3	0	1	8	1	0	1	2	0	0	0	16
	5:15 PM	4	11	0	0	7	0	0	1	0	0	1	1	25
	5:30 PM	1	6	0	0	3	0	1	1	2	0	0	0	14
	5:45 PM	1	3	1	0	0	1	1	0	1	1	1	0	10
	VOLUMES	12	62	4	1	49	2	2	3	11	1	2	1	150
	APPROACH %	15%	79%	5%	2%	94%	4%	13%	19%	69%	25%	50%	25%	
	APP/DEPART	78	/	65	52	/	61	16	/	8	4	/	16	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	6	30	0	1	25	1	1	3	7	0	1	1	76
	APPROACH %	17%	83%	0%	4%	93%	4%	9%	27%	64%	0%	50%	50%	
	PEAK HR FACTOR		0.600			0.675			0.688			0.250		0.760
	APP/DEPART	36	/	32	27	/	32	11	/	4	2	/	8	0

U-TURNS					
	NB	SB	EB	WB	TTL
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

RTOR			
NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	1	0
0	1	1	0
0	0	0	0
0	0	2	0
0	0	1	1
0	0	0	0
0	0	2	0
0	1	7	1
0	0	0	0
0	0	0	0
0	0	1	0
0	0	1	0
0	0	1	0
0	0	0	0
0	0	1	0
0	0	0	0
0	0	4	0
0	0	0	0

Euclid

NORTH SIDE

Eucalyptus WEST SIDE EAST SIDE **Eucalyptus**

SOUTH SIDE

Euclid

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	1
TUESDAY	EAST & WEST:	Eucalyptus	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

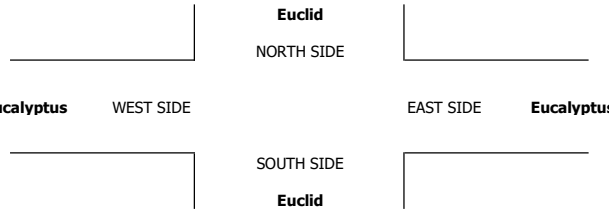
		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Eucalyptus)			WESTBOUND (Eucalyptus)			
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 1	EL 1	ET 1	ER 1	WL 1	WT 1	WR 0	TOTAL
AM	7:00 AM	0	1	0	0	12	0	0	0	0	0	0	0	13
	7:15 AM	0	4	0	0	11	0	1	0	0	0	0	0	16
	7:30 AM	0	6	0	0	6	0	0	0	0	0	0	1	13
	7:45 AM	0	4	1	0	7	0	0	0	0	0	0	0	12
	8:00 AM	0	8	0	0	4	1	0	1	0	0	0	0	14
	8:15 AM	0	5	0	0	7	0	1	0	0	0	0	1	14
	8:30 AM	0	8	0	1	2	0	0	0	0	0	0	0	11
	8:45 AM	0	5	0	0	7	0	0	0	0	0	0	0	12
	VOLUMES	0	41	1	1	56	1	2	1	0	0	0	2	105
	APPROACH %	0%	98%	2%	2%	97%	2%	67%	33%	0%	0%	0%	100%	
	APP/DEPART	42	/	45	58	/	56	3	/	3	2	/	1	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	22	1	0	28	1	1	1	0	0	0	1	55
	APPROACH %	0%	96%	4%	0%	97%	3%	50%	50%	0%	0%	0%	100%	
	PEAK HR FACTOR		0.719			0.659			0.500			0.250		0.859
	APP/DEPART	23	/	24	29	/	28	2	/	2	1	/	1	0
PM	04:00 PM	0	4	0	0	4	0	0	0	0	0	0	0	8
	4:15 PM	0	7	0	1	6	0	0	0	0	0	0	0	14
	4:30 PM	0	6	0	0	5	0	0	0	0	0	0	0	11
	4:45 PM	0	3	0	2	8	0	0	0	0	0	0	0	13
	5:00 PM	0	5	0	0	9	0	0	0	0	0	0	0	14
	5:15 PM	0	5	0	0	3	0	0	1	0	0	0	0	9
	5:30 PM	0	5	0	2	5	0	0	0	0	0	0	0	12
	5:45 PM	0	2	0	0	4	0	0	0	0	0	0	0	6
	VOLUMES	0	37	0	5	44	0	0	1	0	0	0	0	87
	APPROACH %	0%	100%	0%	10%	90%	0%	0%	100%	0%	0%	0%	0%	
	APP/DEPART	37	/	37	49	/	44	1	/	6	0	/	0	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	18	0	4	25	0	0	1	0	0	0	0	48
	APPROACH %	0%	100%	0%	14%	86%	0%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.900			0.725			0.250			0.000		0.857
	APP/DEPART	18	/	18	29	/	25	1	/	5	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR 0	SRR 0	ERR 0	WRR 0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	1
TUESDAY	EAST & WEST:	Eucalyptus	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Eucalyptus)			WESTBOUND (Eucalyptus)			
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 1	EL 1	ET 1	ER 1	WL 1	WT 1	WR 0	TOTAL
AM	7:00 AM	0	18	0	0	26	1	0	0	0	0	0	1	46
	7:15 AM	1	11	0	1	21	1	0	0	2	1	0	4	42
	7:30 AM	0	14	0	0	16	0	0	0	0	0	0	1	31
	7:45 AM	0	12	2	2	29	0	1	0	0	0	0	0	46
	8:00 AM	0	23	0	1	18	0	0	0	0	1	0	2	45
	8:15 AM	0	23	0	0	31	0	0	0	0	1	0	1	56
	8:30 AM	1	25	2	1	30	0	0	0	0	1	0	2	62
	8:45 AM	1	23	0	2	28	3	0	0	0	0	0	1	58
	VOLUMES	3	149	4	7	199	5	1	0	2	4	0	12	386
	APPROACH %	2%	96%	3%	3%	94%	2%	33%	0%	67%	25%	0%	75%	
	APP/DEPART	156	/	162	211	/	205	3	/	11	16	/	8	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	1	60	2	4	84	1	1	0	2	2	0	7	164
	APPROACH %	2%	95%	3%	4%	94%	1%	33%	0%	67%	22%	0%	78%	
	PEAK HR FACTOR		0.685			0.718			0.375			0.450		0.891
	APP/DEPART	63	/	68	89	/	88	3	/	6	9	/	2	0
PM	04:00 PM	0	13	1	2	15	0	0	0	0	0	0	0	31
	4:15 PM	0	17	0	1	13	0	0	0	1	0	0	0	32
	4:30 PM	0	19	0	3	13	0	0	0	1	0	0	0	36
	4:45 PM	0	10	0	2	16	0	0	0	0	0	0	0	28
	5:00 PM	1	18	0	0	11	0	1	0	1	0	0	0	32
	5:15 PM	0	22	0	0	16	1	0	0	0	0	0	1	40
	5:30 PM	0	13	1	1	17	0	1	0	0	0	0	0	33
	5:45 PM	1	17	0	0	19	0	0	0	0	0	0	0	37
	VOLUMES	2	129	2	9	120	1	2	0	3	0	0	1	269
	APPROACH %	2%	97%	2%	7%	92%	1%	40%	0%	60%	0%	0%	100%	
	APP/DEPART	133	/	132	130	/	123	5	/	11	1	/	3	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	1	63	1	3	60	1	2	0	1	0	0	1	133
	APPROACH %	2%	97%	2%	5%	94%	2%	67%	0%	33%	0%	0%	100%	
	PEAK HR FACTOR		0.739			0.889			0.375			0.250		0.831
	APP/DEPART	65	/	66	64	/	61	3	/	4	1	/	2	0

U-TURNS					
	NB	SB	EB	WB	TTL
AM 7:00 AM	0	0	0	0	0
AM 7:15 AM	0	0	0	0	0
AM 7:30 AM	0	0	0	0	0
AM 7:45 AM	0	0	0	0	0
AM 8:00 AM	0	0	0	0	0
AM 8:15 AM	0	0	0	0	0
AM 8:30 AM	0	0	0	0	0
AM 8:45 AM	0	0	0	0	0
AM TOTAL	0	0	0	0	0
PM 04:00 PM	0	0	0	0	0
PM 4:15 PM	0	0	0	0	0
PM 4:30 PM	0	0	0	0	0
PM 4:45 PM	0	0	0	0	0
PM 5:00 PM	0	0	0	0	0
PM 5:15 PM	0	0	0	0	0
PM 5:30 PM	0	0	0	0	0
PM 5:45 PM	0	0	0	0	0
PM TOTAL	0	0	0	0	0

RTOR				
	NRR	SRR	ERR	WRR
AM 7:00 AM	0	0	0	0
AM 7:15 AM	0	0	1	1
AM 7:30 AM	0	0	0	0
AM 7:45 AM	1	0	0	0
AM 8:00 AM	0	0	0	1
AM 8:15 AM	0	0	0	0
AM 8:30 AM	1	0	0	1
AM 8:45 AM	0	1	0	0
AM TOTAL	2	1	1	3
AM PEAK HR VOLUMES	0	0	0	0
PM 04:00 PM	0	0	0	0
PM 4:15 PM	0	0	0	0
PM 4:30 PM	0	0	1	0
PM 4:45 PM	0	0	0	0
PM 5:00 PM	0	0	0	0
PM 5:15 PM	0	0	0	0
PM 5:30 PM	0	0	0	0
PM 5:45 PM	0	0	0	0
PM TOTAL	0	0	1	0
PM PEAK HR VOLUMES	0	0	0	0

Euclid (NORTH SIDE)

Eucalyptus (WEST SIDE) — (EAST SIDE) **Eucalyptus**

(SOUTH SIDE) **Euclid**

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	1
TUESDAY	EAST & WEST:	Eucalyptus	CONTROL:	SIGNAL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

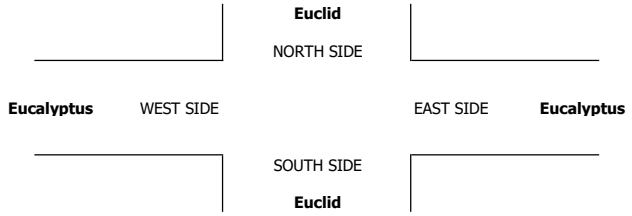
	NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Eucalyptus)			WESTBOUND (Eucalyptus)			
LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 1	EL 1	ET 1	ER 1	WL 1	WT 1	WR 0	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
AM VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
AM APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
AM APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
BEGIN PEAK HR		7:15 AM											
PEAK HR VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
AM PEAK APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
PM VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
PM APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PM APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
BEGIN PEAK HR		4:45 PM											
PEAK HR VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
PEAK HR APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
PM PEAK APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	1
TUESDAY	EAST & WEST:	Eucalyptus	CONTROL:	SIGNAL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

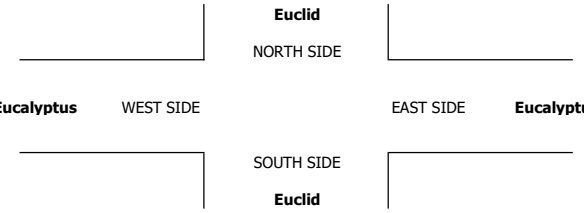
		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Eucalyptus)			WESTBOUND (Eucalyptus)			
	LANES:	NL 1	NT 2	NR 0	SL 1	ST 2	SR 1	EL 1	ET 1	ER 1	WL 1	WT 1	WR 0	TOTAL
AM	7:00 AM	0	2	0	0	1	0	1	0	0	0	0	0	4
	7:15 AM	0	0	0	0	0	0	0	0	1	0	0	0	1
	7:30 AM	1	0	0	0	1	1	0	1	0	0	0	1	5
	7:45 AM	0	1	0	0	3	1	0	0	1	0	0	2	8
	8:00 AM	0	1	0	0	0	0	1	0	0	0	2	0	4
	8:15 AM	1	3	0	0	0	0	0	0	0	0	0	0	4
	8:30 AM	0	0	0	0	0	1	0	0	0	0	0	0	1
	8:45 AM	0	0	0	1	0	0	0	0	0	0	0	0	1
	VOLUMES	2	7	0	1	5	3	2	1	2	0	2	3	28
	APPROACH %	22%	78%	0%	11%	56%	33%	40%	20%	40%	0%	40%	60%	
	APP/DEPART	9	/	12	9	/	7	5	/	2	5	/	7	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	1	2	0	0	4	2	1	1	2	0	2	3	18
	APPROACH %	33%	67%	0%	0%	67%	33%	25%	25%	50%	0%	40%	60%	
	PEAK HR FACTOR		0.750			0.375			1.000			0.625		0.563
	APP/DEPART	3	/	6	6	/	6	4	/	1	5	/	5	0
PM	04:00 PM	0	2	0	0	0	0	1	0	0	0	0	0	3
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	1	0	0	0	0	0	0	1
	5:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
	5:15 PM	0	0	0	0	0	0	1	0	0	0	0	0	1
	5:30 PM	0	0	0	0	0	1	0	0	0	0	0	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	2	0	0	1	2	2	0	0	0	0	0	7
	APPROACH %	0%	100%	0%	0%	33%	67%	100%	0%	0%	0%	0%	0%	
	APP/DEPART	2	/	4	3	/	1	2	/	0	0	/	2	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	1	2	1	0	0	0	0	0	4
	APPROACH %	0%	0%	0%	0%	33%	67%	100%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.750			0.250			0.000		1.000
	APP/DEPART	0	/	1	3	/	1	1	/	0	0	/	2	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 29, 22

LOCATION: Ontario
NORTH & SOUTH: Euclid
EAST & WEST: Merrill

PROJECT #: SC3761
LOCATION #: 2
CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Facility)			WESTBOUND (Merrill)			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	3	131	26	30	171	19	2	2	0	52	20	30	486
AM	7:15 AM	5	133	15	32	165	10	1	0	1	43	7	27	439
AM	7:30 AM	0	183	15	38	162	10	0	2	2	42	9	32	495
AM	7:45 AM	4	169	20	34	197	12	3	0	0	36	13	25	513
AM	8:00 AM	4	132	14	26	173	9	0	1	1	47	7	33	447
AM	8:15 AM	1	135	19	29	160	8	1	1	0	39	4	36	433
AM	8:30 AM	0	152	16	35	156	2	1	0	1	19	1	34	417
AM	8:45 AM	0	149	23	25	133	5	1	0	3	28	2	32	401
AM	VOLUMES	17	1,184	148	249	1,317	75	9	6	8	306	63	249	3,631
AM	APPROACH %	1%	88%	11%	15%	80%	5%	39%	26%	35%	50%	10%	40%	
AM	APP/DEPART	1,349	/ 1,444		1,641	/ 1,632		23	/ 401		618	/ 154		0
AM	BEGIN PEAK HR		7:00 AM											
AM	VOLUMES	12	616	76	134	695	51	6	4	3	173	49	114	1,933
AM	APPROACH %	2%	88%	11%	15%	79%	6%	46%	31%	23%	51%	15%	34%	
AM	PEAK HR FACTOR		0.889			0.905			0.813			0.824		0.942
AM	APP/DEPART	704	/ 737		880	/ 872		13	/ 213		336	/ 111		0
PM	04:00 PM	0	185	36	36	178	1	9	15	4	27	0	41	532
PM	4:15 PM	2	203	26	33	202	0	1	10	1	26	0	18	522
PM	4:30 PM	0	198	33	45	184	1	4	15	2	31	0	30	543
PM	4:45 PM	0	162	32	43	236	0	2	10	7	22	0	36	550
PM	5:00 PM	1	166	27	47	226	6	1	7	0	32	0	48	561
PM	5:15 PM	0	192	32	41	224	1	0	1	1	22	0	28	542
PM	5:30 PM	0	198	36	55	237	1	0	0	0	24	0	26	577
PM	5:45 PM	1	152	27	61	189	2	1	0	2	29	0	19	483
PM	VOLUMES	4	1,456	249	361	1,676	12	18	58	17	213	0	246	4,310
PM	APPROACH %	0%	85%	15%	18%	82%	1%	19%	62%	18%	46%	0%	54%	
PM	APP/DEPART	1,709	/ 1,721		2,049	/ 1,908		93	/ 667		459	/ 14		0
PM	BEGIN PEAK HR		4:45 PM											
PM	VOLUMES	1	718	127	186	923	8	3	18	8	100	0	138	2,230
PM	APPROACH %	0%	85%	15%	17%	83%	1%	10%	62%	28%	42%	0%	58%	
PM	PEAK HR FACTOR		0.904			0.953			0.382			0.744		0.966
PM	APP/DEPART	846	/ 860		1,117	/ 1,032		29	/ 330		238	/ 8		0

U-TURNS

NB 0	SB 0	EB 0	WB 0	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	1	0	0	2
0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
1	2	0	0	3
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
2	1	0	0	3

RTOR

NRR 0	SRR 0	ERR 0	WRR 0
3	7	0	0
4	3	1	6
3	3	2	14
4	2	0	3
2	4	0	6
6	0	0	7
5	0	0	3
5	3	1	3
32	22	4	42
14	15	3	23
11	0	1	6
7	0	0	4
9	0	1	5
6	0	4	10
11	2	0	6
8	0	1	7
8	0	0	5
7	0	2	2
67	2	9	45
33	2	5	28

Euclid

NORTH SIDE

Merrill WEST SIDE EAST SIDE **Merrill**

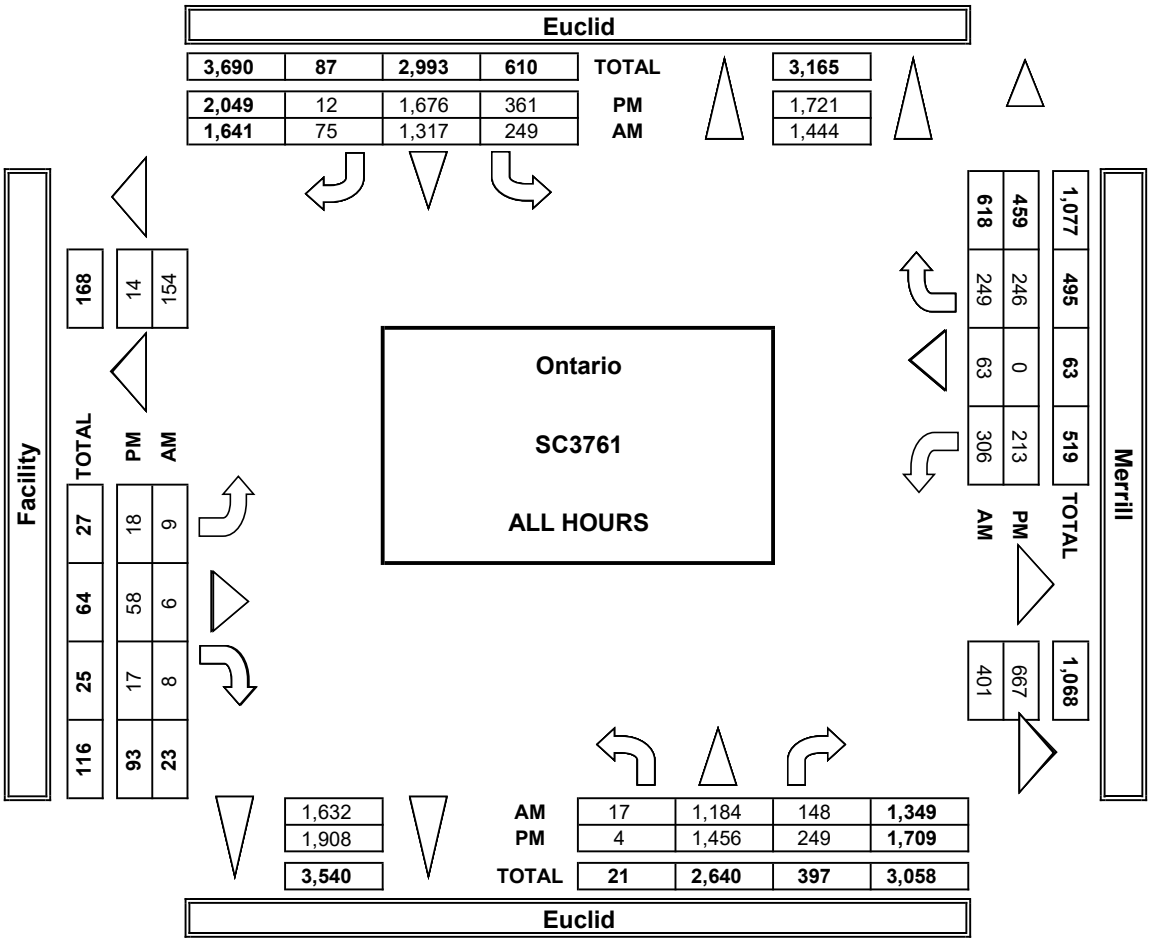
SOUTH SIDE

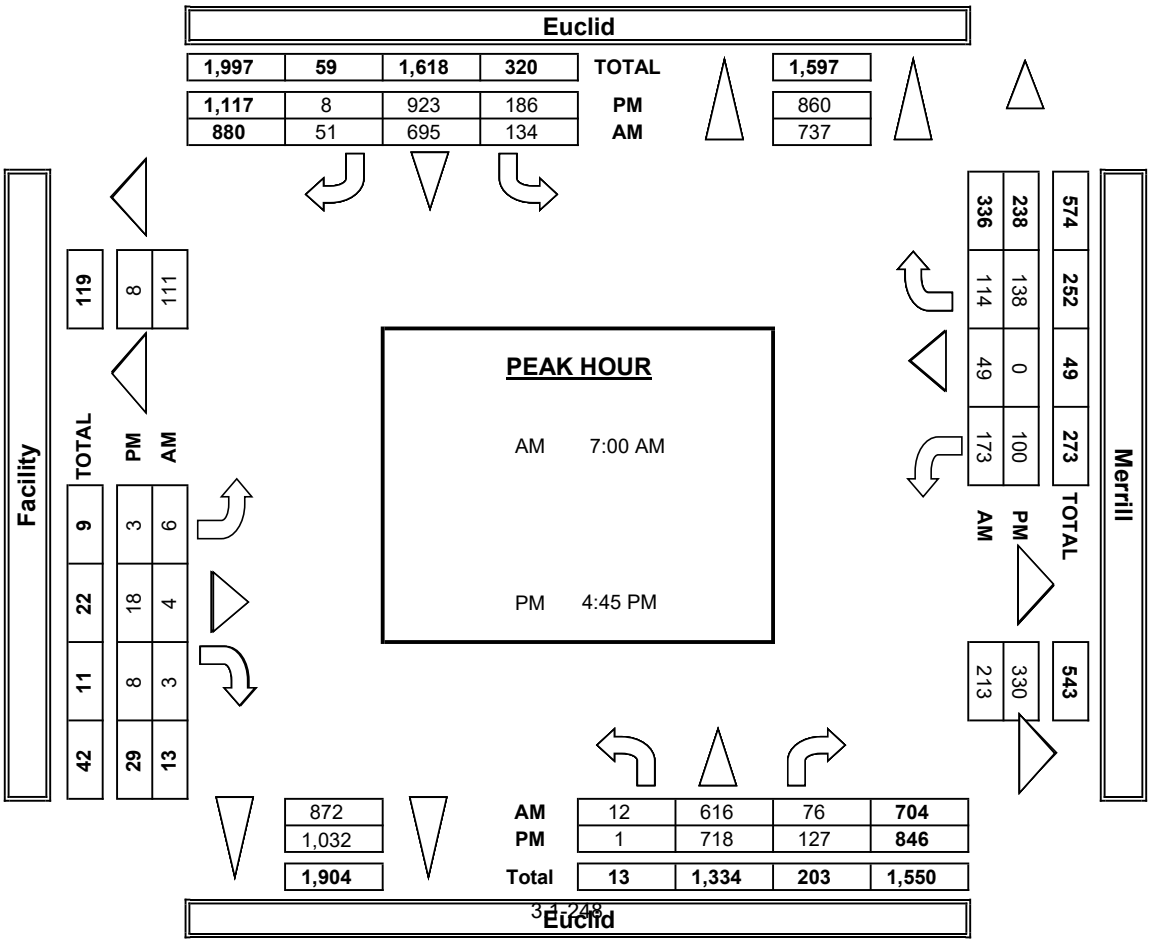
Euclid

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:15 AM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2
AM	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:00 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
AM	8:15 AM	1	0	0	1	2	0	0	0	0	0	1	0	0	1	2
AM	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	TOTAL	1	3	0	1	5	0	0	0	0	0	1	3	0	1	5
PM	4:00 PM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
PM	4:15 PM	0	2	0	0	2	0	0	0	0	0	0	2	0	0	2
PM	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:15 PM	2	1	0	1	4	2	1	0	1	4	0	0	0	0	0
PM	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:45 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
	TOTAL	2	5	0	1	8	2	2	0	1	5	0	3	0	0	3

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	2
TUESDAY	EAST & WEST:	Merrill	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

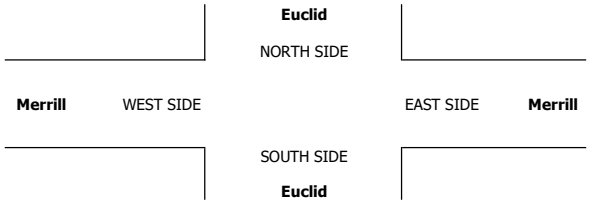
	NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Merrill)			WESTBOUND (Merrill)			
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
7:00 AM	3	107	16	20	126	19	1	2	0	44	19	22	379
7:15 AM	5	114	8	21	124	10	1	0	0	34	7	23	347
7:30 AM	0	157	7	27	132	10	0	1	2	31	9	25	401
7:45 AM	4	142	13	26	154	10	3	0	0	27	13	22	414
8:00 AM	4	99	11	21	144	8	0	1	1	33	6	28	356
8:15 AM	1	102	15	21	125	7	1	0	0	26	4	29	331
8:30 AM	0	112	9	26	119	2	0	0	1	12	1	25	307
8:45 AM	0	120	14	19	96	4	1	0	1	18	1	22	296
AM VOLUMES	17	953	93	181	1,020	70	7	4	5	225	60	196	2,831
AM APPROACH %	2%	90%	9%	14%	80%	6%	44%	25%	31%	47%	12%	41%	
AM APP/DEPART	1,063	/	1,158	1,271	/	1,251	16	/	276	481	/	146	0
AM BEGIN PEAK HR	7:00 AM												
AM PEAK HR VOLUMES	11	520	44	93	536	49	5	3	2	136	48	92	1,541
AM PEAK HR APPROACH %	2%	90%	8%	14%	79%	7%	50%	30%	20%	49%	17%	33%	
AM PEAK HR FACTOR		0.878			0.893			0.833			0.812		0.931
AM PEAK HR APP/DEPART	576	/	618	679	/	675	10	/	140	276	/	108	0
04:00 PM	0	160	25	31	157	1	9	15	4	18	0	29	449
4:15 PM	1	170	14	22	183	0	1	10	1	19	0	13	434
4:30 PM	0	170	31	37	164	1	4	14	0	22	0	25	468
4:45 PM	0	149	18	38	207	0	2	10	7	18	0	25	474
5:00 PM	1	151	20	36	207	4	1	6	0	30	0	36	492
5:15 PM	0	158	28	31	208	1	0	1	1	17	0	20	465
5:30 PM	0	181	34	49	217	1	0	0	0	16	0	17	515
5:45 PM	1	133	22	52	173	2	0	0	2	21	0	14	420
PM VOLUMES	3	1,272	192	296	1,516	10	17	56	15	161	0	179	3,717
PM APPROACH %	0%	87%	13%	16%	83%	1%	19%	64%	17%	47%	0%	53%	
PM APP/DEPART	1,467	/	1,469	1,822	/	1,694	88	/	543	340	/	11	0
PM BEGIN PEAK HR	4:45 PM												
PM PEAK HR VOLUMES	0	639	100	153	839	6	3	17	8	81	0	98	1,946
PM PEAK HR APPROACH %	0%	86%	14%	15%	84%	1%	11%	61%	29%	45%	0%	55%	
PM PEAK HR FACTOR		0.860			0.935			0.368			0.678		0.945
PM APP/DEPART	740	/	741	999	/	929	28	/	270	179	/	6	0

U-TURNS

	NB	SB	EB	WB	TTL
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	1	1	0	0	2
8:00 AM	0	0	0	0	0
8:15 AM	0	1	0	0	1
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
AM	1	2	0	0	3
04:00 PM	0	0	0	0	0
4:15 PM	1	0	0	0	1
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	1	0	0	0	1
5:15 PM	0	0	0	0	0
5:30 PM	0	1	0	0	1
5:45 PM	0	0	0	0	0
PM	2	1	0	0	3

RTOR

	NRR	SRR	ERR	WRR
7:00 AM	2	7	0	0
7:15 AM	4	3	0	5
7:30 AM	1	3	2	12
7:45 AM	4	2	0	3
8:00 AM	2	3	0	6
8:15 AM	6	0	0	3
8:30 AM	4	0	0	2
8:45 AM	2	2	0	1
AM	25	20	2	32
AM PEAK HR	11	15	2	20
04:00 PM	7	0	1	4
4:15 PM	2	0	0	3
4:30 PM	9	0	0	3
4:45 PM	4	0	4	6
5:00 PM	9	1	0	5
5:15 PM	7	0	1	6
5:30 PM	8	0	0	2
5:45 PM	5	0	2	2
PM	51	1	8	31
PM PEAK HR	28	1	5	19



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	2
TUESDAY	EAST & WEST:	Merrill	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

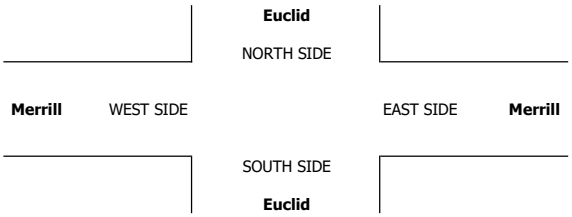
		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Merrill)			WESTBOUND (Merrill)			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	8	3	1	15	0	1	0	0	1	1	2	32
AM	7:15 AM	0	6	2	3	13	0	0	0	1	3	0	1	29
AM	7:30 AM	0	9	2	4	15	0	0	1	0	2	0	2	35
AM	7:45 AM	0	10	2	1	12	0	0	0	0	4	0	0	29
AM	8:00 AM	0	6	1	0	11	1	0	0	0	4	0	0	23
AM	8:15 AM	0	6	1	0	5	0	0	0	0	2	0	2	16
AM	8:30 AM	0	10	1	0	13	0	0	0	0	1	0	4	29
AM	8:45 AM	0	6	2	1	8	0	0	0	0	1	1	3	22
AM	VOLUMES	0	61	14	10	92	1	1	1	1	18	2	14	215
AM	APPROACH %	0%	81%	19%	10%	89%	1%	33%	33%	33%	53%	6%	41%	
AM	APP/DEPART	75	/	76	103	/	111	3	/	25	34	/	3	0
AM	BEGIN PEAK HR		7:00 AM											
AM	VOLUMES	0	33	9	9	55	0	1	1	1	10	1	5	125
AM	APPROACH %	0%	79%	21%	14%	86%	0%	33%	33%	33%	63%	6%	31%	
AM	PEAK HR FACTOR		0.875			0.842			0.750			1.000		0.893
AM	APP/DEPART	42	/	39	64	/	66	3	/	19	16	/	1	0
PM	04:00 PM	0	10	4	3	4	0	0	0	0	4	0	7	32
PM	4:15 PM	1	13	2	7	4	0	0	0	0	0	0	1	28
PM	4:30 PM	0	6	1	2	7	0	0	1	2	1	0	1	21
PM	4:45 PM	0	4	3	1	9	0	0	0	0	3	0	7	27
PM	5:00 PM	0	1	0	2	7	1	0	1	0	0	0	2	14
PM	5:15 PM	0	12	0	5	2	0	0	0	0	2	0	3	24
PM	5:30 PM	0	5	0	0	4	0	0	0	0	0	0	2	11
PM	5:45 PM	0	5	1	1	1	0	0	0	0	1	0	0	9
PM	VOLUMES	1	56	11	21	38	1	0	2	2	11	0	23	166
PM	APPROACH %	1%	82%	16%	35%	63%	2%	0%	50%	50%	32%	0%	68%	
PM	APP/DEPART	68	/	79	60	/	51	4	/	34	34	/	2	0
PM	BEGIN PEAK HR		4:45 PM											
PM	VOLUMES	0	22	3	8	22	1	0	1	0	5	0	14	76
PM	APPROACH %	0%	88%	12%	26%	71%	3%	0%	100%	0%	26%	0%	74%	
PM	PEAK HR FACTOR		0.521			0.775			0.250			0.475		0.704
PM	APP/DEPART	25	/	36	31	/	27	1	/	12	19	/	1	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	1	0
2	0	0	0
0	0	0	0
0	1	0	0
0	0	0	1
0	0	0	1
1	0	0	0
3	1	1	2
2	0	1	0
3	0	0	2
2	0	0	0
0	0	1	0
2	0	0	3
0	1	0	0
0	0	0	1
0	0	0	1
0	0	0	0
7	1	1	7
2	1	0	5



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	2
TUESDAY	EAST & WEST:	Merrill	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Merrill)			WESTBOUND (Merrill)			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	3	4	8	0	0	0	0	4	0	1	20
	7:15 AM	0	2	0	2	9	0	0	0	0	2	0	2	17
	7:30 AM	0	5	1	2	4	0	0	0	0	2	0	2	16
	7:45 AM	0	5	1	1	6	0	0	0	0	1	0	0	14
	8:00 AM	0	7	0	1	3	0	0	0	0	2	1	1	15
	8:15 AM	0	4	0	4	2	1	0	1	0	4	0	1	17
	8:30 AM	0	6	3	1	1	0	0	0	0	2	0	2	15
	8:45 AM	0	4	3	1	5	1	0	0	1	1	0	1	17
	VOLUMES	0	33	11	16	38	2	0	1	1	18	1	10	131
	APPROACH %	0%	75%	25%	29%	68%	4%	0%	50%	50%	62%	3%	34%	
	APP/DEPART	44	/	43	56	/	57	2	/	28	29	/	3	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	12	5	9	27	0	0	0	0	9	0	5	67
	APPROACH %	0%	71%	29%	25%	75%	0%	0%	0%	0%	64%	0%	36%	
	PEAK HR FACTOR		0.708			0.750			0.000			0.700		0.838
	APP/DEPART	17	/	17	36	/	36	0	/	14	14	/	0	0
PM	04:00 PM	0	3	1	1	3	0	0	0	0	4	0	1	13
	4:15 PM	0	6	3	1	5	0	0	0	0	1	0	1	17
	4:30 PM	0	5	0	3	2	0	0	0	0	4	0	1	15
	4:45 PM	0	2	3	2	6	0	0	0	0	0	0	1	14
	5:00 PM	0	4	1	3	5	1	0	0	0	0	0	1	15
	5:15 PM	0	3	1	2	1	0	0	0	0	1	0	2	10
	5:30 PM	0	3	1	3	2	0	0	0	0	2	0	2	13
	5:45 PM	0	0	0	3	1	0	1	0	0	1	0	1	7
	VOLUMES	0	26	10	18	25	1	1	0	0	13	0	10	104
	APPROACH %	0%	72%	28%	41%	57%	2%	100%	0%	0%	57%	0%	43%	
	APP/DEPART	36	/	37	44	/	38	1	/	28	23	/	1	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	12	6	10	14	1	0	0	0	3	0	6	52
	APPROACH %	0%	67%	33%	40%	56%	4%	0%	0%	0%	33%	0%	67%	
	PEAK HR FACTOR		0.900			0.694			0.000			0.563		0.867
	APP/DEPART	18	/	18	25	/	17	0	/	16	9	/	1	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
1	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1
1	0	0	0
1	1	1	1
3	1	1	3
1	0	0	1
0	0	0	0
2	0	0	1
0	0	0	1
0	0	0	0
1	0	0	0
0	0	0	0
0	0	0	1
0	0	0	0
3	0	0	3
1	0	0	1

Euclid

NORTH SIDE

Merrill WEST SIDE EAST SIDE **Merrill**

SOUTH SIDE

Euclid

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	2
TUESDAY	EAST & WEST:	Merrill	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Merrill)			WESTBOUND (Merrill)			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	14	4	5	21	0	0	0	0	3	0	5	52
	7:15 AM	0	11	5	6	18	0	0	0	0	4	0	1	45
	7:30 AM	0	12	5	5	10	0	0	0	0	7	0	2	41
	7:45 AM	0	11	4	6	21	2	0	0	0	4	0	3	51
	8:00 AM	0	19	2	4	15	0	0	0	0	8	0	4	52
	8:15 AM	0	19	3	4	28	0	0	0	0	7	0	4	65
	8:30 AM	0	24	3	8	23	0	1	0	0	4	0	3	66
	8:45 AM	0	19	4	4	24	0	0	0	1	8	0	6	66
	VOLUMES	0	129	30	42	160	2	1	0	1	45	0	28	438
	APPROACH %	0%	81%	19%	21%	78%	1%	50%	0%	50%	62%	0%	38%	
	APP/DEPART	159	/	158	204	/	206	2	/	72	73	/	2	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	48	18	22	70	2	0	0	0	18	0	11	189
	APPROACH %	0%	73%	27%	23%	74%	2%	0%	0%	0%	62%	0%	38%	
	PEAK HR FACTOR		0.917			0.810			0.000			0.806		0.909
	APP/DEPART	66	/	59	94	/	88	0	/	40	29	/	2	0
PM	04:00 PM	0	10	6	1	14	0	0	0	0	1	0	4	36
	4:15 PM	0	14	7	3	10	0	0	0	0	6	0	3	43
	4:30 PM	0	17	1	3	11	0	0	0	0	4	0	3	39
	4:45 PM	0	7	8	2	14	0	0	0	0	1	0	3	35
	5:00 PM	0	10	6	6	6	0	0	0	0	2	0	9	39
	5:15 PM	0	19	3	3	13	0	0	0	0	2	0	3	43
	5:30 PM	0	9	1	3	14	0	0	0	0	6	0	5	38
	5:45 PM	0	14	4	5	14	0	0	0	0	6	0	4	47
	VOLUMES	0	100	36	26	96	0	0	0	0	28	0	34	320
	APPROACH %	0%	74%	26%	21%	79%	0%	0%	0%	0%	45%	0%	55%	
	APP/DEPART	136	/	134	122	/	124	0	/	62	62	/	0	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	45	18	14	47	0	0	0	0	11	0	20	155
	APPROACH %	0%	71%	29%	23%	77%	0%	0%	0%	0%	35%	0%	65%	
	PEAK HR FACTOR		0.716			0.897			0.000			0.705		0.901
	APP/DEPART	63	/	65	61	/	58	0	/	32	31	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	2
0	0	0	0
1	0	0	1
1	0	0	4
0	0	0	1
1	0	0	0
1	0	0	1
1	0	0	1
1	0	0	0
0	0	0	1
2	0	0	0
6	0	0	4
2	0	0	3

Euclid

NORTH SIDE

Merrill WEST SIDE EAST SIDE **Merrill**

SOUTH SIDE

Euclid

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	2
TUESDAY	EAST & WEST:	Merrill	CONTROL:	SIGNAL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Merrill)			WESTBOUND (Merrill)			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Euclid

NORTH SIDE

Merrill WEST SIDE EAST SIDE **Merrill**

SOUTH SIDE

Euclid

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	2
TUESDAY	EAST & WEST:	Merrill	CONTROL:	SIGNAL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

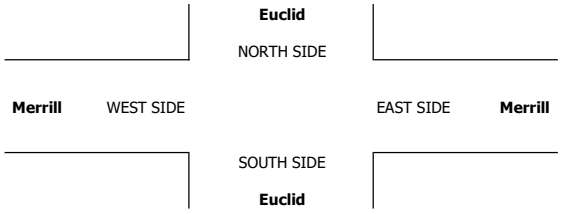
		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Merrill)			WESTBOUND (Merrill)			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	2	0	0	1	0	0	0	0	0	0	0	3
	7:15 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	7:30 AM	0	0	0	0	1	0	0	0	0	0	0	1	2
	7:45 AM	0	1	0	0	4	0	0	0	0	0	0	0	5
	8:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
	8:15 AM	0	4	0	0	0	0	0	0	0	0	0	0	4
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	8	0	0	7	0	0	0	0	0	0	1	16
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	
	APP/DEPART	8	/	9	7	/	7	0	/	0	1	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	3	0	0	7	0	0	0	0	0	0	1	11
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	100%	
	PEAK HR FACTOR		0.375			0.438			0.000			0.250		0.550
	APP/DEPART	3	/	4	7	/	7	0	/	0	1	/	0	0
PM	04:00 PM	0	2	0	0	0	0	0	0	0	0	0	0	2
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	2	0	0	1	0	0	0	0	0	0	0	3
	APPROACH %	0%	100%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	2	/	2	1	/	1	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	1	0	0	0	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.250			0.000			0.000		0.250
	APP/DEPART	0	/	0	1	/	1	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 29, 22

LOCATION: Ontario
NORTH & SOUTH: Euclid
EAST & WEST: Kimball

PROJECT #: SC3761
LOCATION #: 3
CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Kimball)			WESTBOUND (Kimball)			
	LANES:	NL 1	NT 2	NR 1	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	11	91	8	23	101	69	16	34	6	12	200	43	614
	7:15 AM	7	91	7	25	131	52	17	45	10	20	244	68	717
	7:30 AM	7	93	2	28	84	80	16	57	4	25	251	91	738
	7:45 AM	11	91	11	36	118	89	22	63	3	20	214	70	748
	8:00 AM	10	85	6	44	104	64	15	61	9	17	223	51	689
	8:15 AM	14	98	8	38	121	56	15	79	3	11	140	51	634
	8:30 AM	6	88	10	35	89	45	23	80	2	16	160	41	595
	8:45 AM	7	105	5	27	84	39	22	57	3	5	103	40	497
	VOLUMES	73	742	57	256	832	494	146	476	40	126	1,535	455	5,232
	APPROACH %	8%	85%	7%	16%	53%	31%	22%	72%	6%	6%	73%	22%	
	APP/DEPART	872	/ 1,348		1,582	/ 1,007		662	/ 791		2,116	/ 2,086		0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	35	360	26	133	437	285	70	226	26	82	932	280	2,892
	APPROACH %	8%	86%	6%	16%	51%	33%	22%	70%	8%	6%	72%	22%	
	PEAK HR FACTOR		0.931			0.880			0.915			0.881		0.967
	APP/DEPART	421	/ 712		855	/ 549		322	/ 388		1,294	/ 1,243		0
PM	04:00 PM	11	135	29	93	106	30	55	175	6	15	63	49	767
	4:15 PM	10	109	27	90	85	29	52	189	6	7	87	45	736
	4:30 PM	15	104	37	100	88	32	64	190	5	10	125	44	814
	4:45 PM	18	118	42	100	131	33	42	188	1	11	76	26	786
	5:00 PM	7	102	43	117	99	33	63	195	7	13	87	49	815
	5:15 PM	12	99	37	116	85	29	57	233	6	12	97	38	821
	5:30 PM	22	78	38	134	101	35	92	190	14	9	95	26	834
	5:45 PM	12	84	18	84	76	28	38	180	8	9	78	45	660
	VOLUMES	107	829	271	834	771	249	463	1,540	53	86	708	322	6,233
	APPROACH %	9%	69%	22%	45%	42%	13%	23%	75%	3%	8%	63%	29%	
	APP/DEPART	1,207	/ 1,745		1,854	/ 918		2,056	/ 2,524		1,116	/ 1,046		0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	59	397	160	467	416	130	254	806	28	45	355	139	3,256
	APPROACH %	10%	64%	26%	46%	41%	13%	23%	74%	3%	8%	66%	26%	
	PEAK HR FACTOR		0.865			0.938			0.919			0.904		0.976
	APP/DEPART	616	/ 881		1,013	/ 494		1,088	/ 1,344		539	/ 537		0

U-TURNS

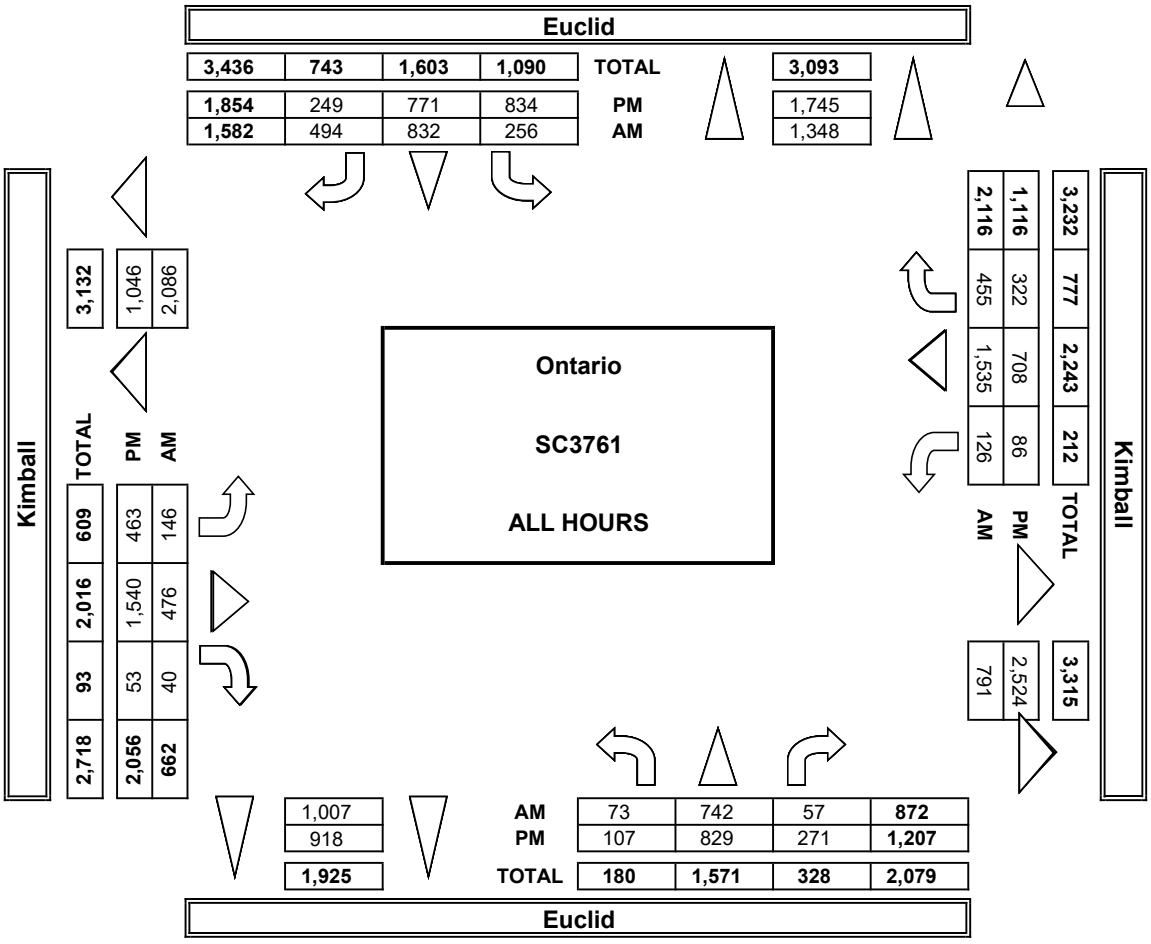
NB	SB	EB	WB	TTL
0	0	0	0	
0	1	0	0	1
2	2	0	1	5
0	0	0	0	0
5	0	0	2	7
2	0	0	2	4
5	0	0	0	5
1	0	0	1	2
1	2	0	1	4
16	5	0	7	28
3	10	0	1	14
2	10	0	3	15
3	14	0	2	19
1	12	0	1	14
2	17	0	0	19
0	21	0	1	22
4	41	0	0	45
3	6	0	2	11
18	131	0	10	159

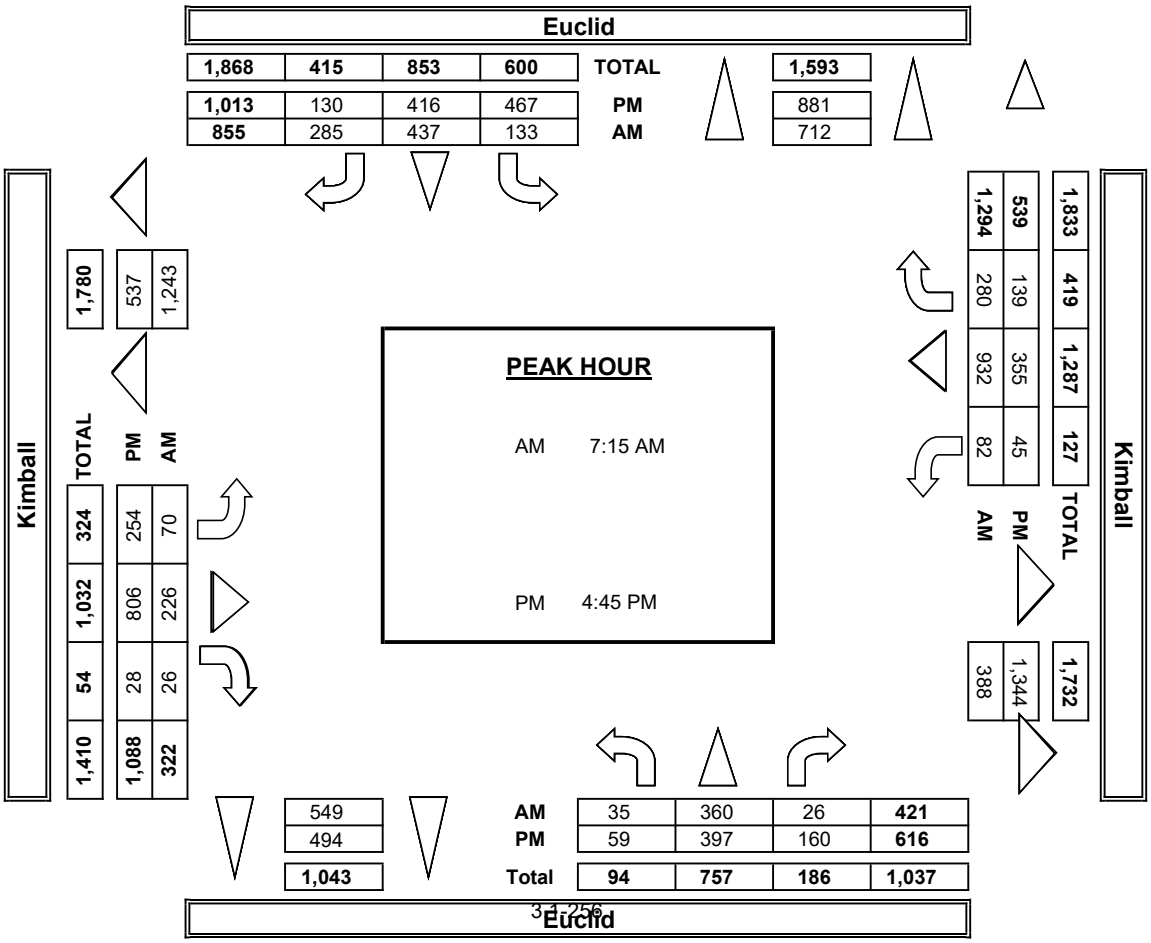
RTOR

NRR	SRR	ERR	WRR
0	0	0	0
5	8	3	24
4	13	5	58
2	11	3	44
6	16	0	33
2	9	2	38
2	14	1	26
7	14	0	15
1	10	0	20
29	95	14	258
11	12	2	33
11	9	0	25
10	10	3	14
6	12	1	12
15	12	2	32
7	7	2	17
13	10	7	9
6	10	2	26
79	82	19	168
14	49	10	173

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	3
TUESDAY	EAST & WEST:	Kimball	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

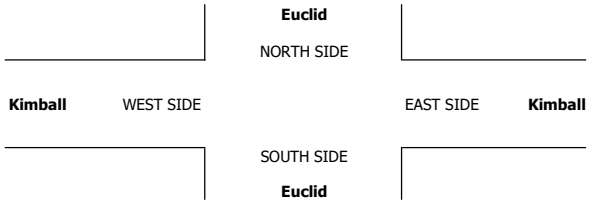
	NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Kimball)			WESTBOUND (Kimball)			
LANES:	NL 1	NT 2	NR 1	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
7:00 AM	8	72	6	17	77	51	10	31	5	11	194	40	522
7:15 AM	4	65	7	18	103	39	9	40	4	18	240	65	612
7:30 AM	7	75	2	26	66	63	8	50	2	21	248	87	655
7:45 AM	7	68	9	32	88	75	13	60	1	18	211	67	649
8:00 AM	8	68	6	42	77	53	6	58	6	14	213	46	597
8:15 AM	11	66	6	35	90	36	4	76	3	10	135	45	517
8:30 AM	4	74	10	33	66	24	6	79	2	14	153	39	504
8:45 AM	5	83	4	25	56	22	8	53	2	4	100	39	401
VOLUMES	54	571	50	228	623	363	64	447	25	110	1,494	428	4,457
APPROACH %	8%	85%	7%	19%	51%	30%	12%	83%	5%	5%	74%	21%	
APP/DEPART	675	/	1,068	1,214	/	764	536	/	726	2,032	/	1,899	0
BEGIN PEAK HR		7:15 AM											
VOLUMES	21	276	24	116	334	230	36	208	13	67	912	265	2,513
APPROACH %	6%	85%	7%	17%	49%	34%	14%	81%	5%	5%	73%	21%	
PEAK HR FACTOR		0.970			0.874			0.868			0.876		0.959
APP/DEPART	326	/	579	682	/	419	257	/	352	1,248	/	1,163	0
04:00 PM	11	111	29	92	91	15	37	172	6	14	59	47	684
4:15 PM	10	81	26	87	71	18	40	183	3	6	83	42	650
4:30 PM	14	89	34	95	70	22	52	188	4	10	125	43	746
4:45 PM	18	105	41	98	116	21	35	182	0	10	73	26	725
5:00 PM	7	80	42	115	91	25	51	191	7	13	83	45	750
5:15 PM	12	85	37	115	80	16	47	229	5	11	97	37	771
5:30 PM	22	67	38	132	92	19	82	189	12	9	95	24	781
5:45 PM	11	73	18	83	67	14	29	175	7	9	77	45	608
VOLUMES	105	691	265	817	678	150	373	1,509	44	82	692	309	5,715
APPROACH %	10%	65%	25%	50%	41%	9%	19%	78%	2%	8%	64%	29%	
APP/DEPART	1,061	/	1,504	1,645	/	814	1,926	/	2,467	1,083	/	930	0
BEGIN PEAK HR		4:45 PM											
VOLUMES	52	337	158	369	379	81	215	791	24	43	348	132	3,027
APPROACH %	9%	61%	29%	40%	41%	9%	21%	77%	2%	8%	67%	25%	
PEAK HR FACTOR		0.845			0.947			0.910			0.902		0.969
APP/DEPART	554	/	775	920	/	453	1,030	/	1,318	523	/	481	0

U-TURNS

NB	SB	EB	WB	TTL
0	1	0	0	1
0	2	0	1	3
0	0	0	0	0
3	0	0	2	5
2	0	0	1	3
5	0	0	0	5
1	0	0	1	2
1	2	0	1	4
12	5	0	6	23
3	10	0	0	13
2	10	0	3	15
2	14	0	2	18
1	12	0	0	13
2	17	0	0	19
0	21	0	0	21
4	41	0	0	45
3	6	0	2	11
17	131	0	7	155

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
3	6	2	23
4	10	2	55
2	5	1	42
4	12	0	32
2	9	2	36
2	11	1	24
7	10	0	15
1	8	0	19
25	71	8	246
12	36	5	165
11	7	2	32
10	7	0	22
10	7	3	14
6	5	0	12
15	9	2	30
7	5	2	17
13	6	5	7
6	5	2	26
78	51	16	160
41	25	9	66



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	3
TUESDAY	EAST & WEST:	Kimball	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

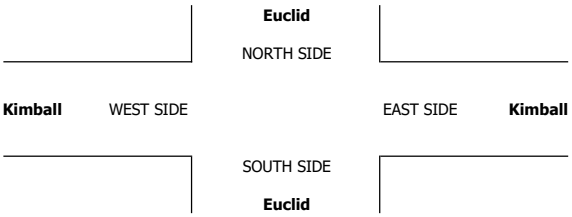
		NORTHBOUND Euclid			SOUTHBOUND Euclid			EASTBOUND Kimball			WESTBOUND Kimball			
	LANES:	NL 1	NT 2	NR 1	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	1	5	1	3	7	4	2	2	0	0	2	0	27
	7:15 AM	1	13	0	4	11	1	0	0	3	0	3	3	39
	7:30 AM	0	3	0	1	8	5	2	2	2	1	3	3	30
	7:45 AM	1	6	1	2	6	2	0	2	0	1	2	0	23
	8:00 AM	0	4	0	2	11	1	2	1	0	1	3	2	27
	8:15 AM	2	8	2	1	7	5	2	2	0	0	1	4	34
	8:30 AM	0	3	0	1	7	3	3	1	0	2	4	0	24
	8:45 AM	2	3	1	1	3	3	1	4	0	1	3	1	23
	VOLUMES	7	45	5	15	60	24	12	14	5	6	21	13	227
	APPROACH %	12%	79%	9%	15%	61%	24%	39%	45%	16%	15%	53%	33%	
	APP/DEPART	57	/	70	99	/	73	31	/	34	40	/	50	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	26	1	9	36	9	4	5	5	3	11	8	119
	APPROACH %	0%	90%	3%	17%	67%	17%	29%	36%	36%	14%	50%	36%	
	PEAK HR FACTOR		0.518			0.844			0.583			0.786		0.763
	APP/DEPART	29	/	38	54	/	46	14	/	15	22	/	20	0
PM	04:00 PM	0	8	0	0	4	6	5	2	0	0	2	0	27
	4:15 PM	0	11	0	1	4	0	1	5	0	1	3	3	29
	4:30 PM	0	3	1	5	6	1	3	2	0	0	0	0	21
	4:45 PM	0	2	1	1	6	1	2	3	1	0	1	0	18
	5:00 PM	0	5	1	2	1	0	2	4	0	0	4	3	22
	5:15 PM	0	6	0	1	1	2	1	2	1	0	0	1	15
	5:30 PM	0	2	0	2	1	2	0	0	0	0	0	1	8
	5:45 PM	0	5	0	1	1	1	3	3	0	0	1	0	15
	VOLUMES	0	42	3	13	24	13	17	21	2	1	11	8	155
	APPROACH %	0%	93%	7%	26%	48%	26%	43%	53%	5%	5%	55%	40%	
	APP/DEPART	45	/	67	50	/	27	40	/	37	20	/	24	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	15	2	6	9	5	5	9	2	0	5	5	63
	APPROACH %	0%	88%	12%	30%	45%	25%	31%	56%	13%	0%	50%	50%	
	PEAK HR FACTOR		0.708			0.625			0.667			0.357		0.716
	APP/DEPART	17	/	25	20	/	11	16	/	17	10	/	10	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
2	0	0	0	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
1	0	0	0
0	1	2	3
0	2	2	2
1	1	0	0
0	0	0	1
0	1	0	2
0	0	0	0
0	0	0	1
2	5	4	9
0	2	0	0
0	0	0	3
0	1	0	0
0	1	1	0
0	0	0	2
0	0	0	0
0	0	0	1
0	0	0	0
0	4	1	6



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	3
TUESDAY	EAST & WEST:	Kimball	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

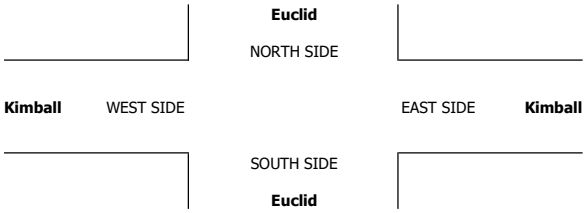
		NORTHBOUND Euclid			SOUTHBOUND Euclid			EASTBOUND Kimball			WESTBOUND Kimball			
	LANES:	NL 1	NT 2	NR 1	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	0	4	0	2	5	3	0	0	0	1	2	0	17
	7:15 AM	1	4	0	1	6	4	2	1	0	1	0	0	20
	7:30 AM	0	2	0	0	3	1	0	1	0	1	0	0	8
	7:45 AM	1	2	0	0	4	3	3	0	0	0	0	1	14
	8:00 AM	1	3	0	0	6	1	0	1	0	0	2	1	15
	8:15 AM	0	7	0	0	2	1	1	0	0	0	3	0	14
	8:30 AM	0	2	0	1	0	2	2	0	0	0	1	2	10
	8:45 AM	0	3	0	1	5	3	2	0	0	0	0	0	14
	VOLUMES	3	27	0	5	31	18	10	3	0	3	8	4	112
	APPROACH %	10%	90%	0%	9%	57%	33%	77%	23%	0%	20%	53%	27%	
	APP/DEPART	30	/	41	54	/	35	13	/	8	15	/	28	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	2	11	0	1	19	9	5	3	0	2	2	2	57
	APPROACH %	14%	79%	0%	3%	66%	31%	63%	38%	0%	33%	33%	33%	
	PEAK HR FACTOR		0.700			0.659			0.667			0.500		0.713
	APP/DEPART	14	/	18	29	/	22	8	/	4	6	/	13	0
PM	04:00 PM	0	2	0	1	5	1	1	0	0	0	0	0	10
	4:15 PM	0	6	1	0	3	2	4	1	0	0	0	0	17
	4:30 PM	1	2	2	0	4	3	2	0	0	0	0	0	14
	4:45 PM	0	3	0	0	4	2	0	2	0	0	1	0	12
	5:00 PM	0	3	0	0	0	3	2	0	0	0	0	0	8
	5:15 PM	0	3	0	0	0	2	2	2	0	0	0	0	9
	5:30 PM	0	3	0	0	1	2	1	0	2	0	0	1	10
	5:45 PM	0	0	0	0	0	1	1	2	0	0	0	0	4
	VOLUMES	1	22	3	1	17	16	13	7	2	0	1	1	84
	APPROACH %	4%	85%	12%	3%	50%	47%	59%	32%	9%	0%	50%	50%	
	APP/DEPART	26	/	36	34	/	20	22	/	11	2	/	17	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	12	0	0	5	9	5	4	2	0	1	1	39
	APPROACH %	0%	100%	0%	0%	36%	64%	45%	36%	18%	0%	50%	50%	
	PEAK HR FACTOR		1.000			0.583			0.688			0.500		0.813
	APP/DEPART	12	/	18	14	/	7	11	/	4	2	/	10	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
1	0	0	0	1

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	1	0	0
0	0	0	0
0	1	0	1
0	0	0	1
0	0	0	0
0	0	0	0
0	1	0	0
0	3	0	2
0	2	0	2
0	1	0	0
0	2	0	0
0	1	0	0
0	1	0	0
0	2	0	0
0	1	0	0
0	1	2	1
0	0	0	0
1	9	2	1
0	5	2	1



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	3
TUESDAY	EAST & WEST:	Kimball	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

		NORTHBOUND (Euclid)			SOUTHBOUND (Euclid)			EASTBOUND (Kimball)			WESTBOUND (Kimball)			
	LANES:	NL 1	NT 2	NR 1	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	1	10	1	1	12	11	4	0	0	0	0	1	41
	7:15 AM	1	9	0	0	11	8	6	4	3	1	0	0	43
	7:30 AM	0	13	0	0	7	11	6	3	0	1	0	0	41
	7:45 AM	2	15	0	0	18	9	6	0	2	0	1	2	55
	8:00 AM	1	10	0	0	10	9	7	0	3	0	1	0	41
	8:15 AM	1	16	0	2	22	14	8	1	0	1	1	0	66
	8:30 AM	2	9	0	0	16	16	12	0	0	0	1	0	56
	8:45 AM	0	16	0	0	20	11	11	0	1	0	0	0	59
	VOLUMES	8	98	1	3	116	89	60	8	9	3	4	3	402
	APPROACH %	7%	92%	1%	1%	56%	43%	78%	10%	12%	30%	40%	30%	
	APP/DEPART	107	/	161	208	/	129	77	/	12	10	/	100	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	3	47	0	0	46	37	25	7	8	2	2	2	180
	APPROACH %	6%	92%	0%	0%	55%	45%	63%	18%	20%	33%	33%	33%	
	PEAK HR FACTOR		0.750			0.769			0.769			0.500		0.818
	APP/DEPART	51	/	74	83	/	57	40	/	7	6	/	42	0
PM	04:00 PM	0	14	0	0	6	8	12	1	0	0	1	0	42
	4:15 PM	0	11	0	2	7	9	7	0	3	0	0	0	39
	4:30 PM	0	10	0	0	8	6	7	0	1	0	0	1	33
	4:45 PM	0	8	0	1	5	9	5	1	0	0	1	0	30
	5:00 PM	0	14	0	0	6	5	8	0	0	0	0	1	34
	5:15 PM	0	5	0	0	4	9	7	0	0	0	0	0	25
	5:30 PM	0	6	0	0	7	12	9	1	0	0	0	0	35
	5:45 PM	1	6	0	0	8	12	5	0	1	0	0	0	33
	VOLUMES	1	74	0	3	51	70	60	3	5	0	2	2	271
	APPROACH %	1%	99%	0%	2%	41%	56%	88%	4%	7%	0%	50%	50%	
	APP/DEPART	75	/	136	124	/	56	68	/	6	4	/	73	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	33	0	1	22	35	29	2	0	0	1	1	124
	APPROACH %	0%	100%	0%	2%	38%	60%	94%	6%	0%	0%	50%	50%	
	PEAK HR FACTOR		0.589			0.763			0.775			0.500		0.886
	APP/DEPART	33	/	63	58	/	22	31	/	3	2	/	36	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR 0	SRR 0	ERR 0	WRR 0
1	2	0	0
0	1	1	0
0	4	0	0
0	2	0	0
0	0	0	0
0	2	0	0
0	4	0	0
0	1	0	0
1	16	1	0
0	7	1	0
0	2	0	0
0	0	0	0
0	1	0	0
0	5	0	0
0	1	0	0
0	1	0	0
0	3	0	0
0	5	0	0
0	18	0	0
0	10	0	0

Euclid

NORTH SIDE

Kimball WEST SIDE EAST SIDE **Kimball**

SOUTH SIDE

Euclid

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	3
TUESDAY	EAST & WEST:	Kimball	CONTROL:	SIGNAL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Euclid			SOUTHBOUND Euclid			EASTBOUND Kimball			WESTBOUND Kimball			
	LANES:	NL 1	NT 2	NR 1	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR 0	SRR 0	ERR 0	WRR 0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Euclid

NORTH SIDE

Kimball WEST SIDE EAST SIDE **Kimball**

SOUTH SIDE

Euclid

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Euclid	LOCATION #:	3
TUESDAY	EAST & WEST:	Kimball	CONTROL:	SIGNAL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Euclid			SOUTHBOUND Euclid			EASTBOUND Kimball			WESTBOUND Kimball			
	LANES:	NL 1	NT 2	NR 1	SL 2	ST 2	SR 1	EL 2	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	1	0	0	0	0	0	0	1	1	0	2	2	7
	7:15 AM	0	0	0	2	0	0	0	0	0	0	1	0	3
	7:30 AM	0	0	0	1	0	0	0	1	0	1	0	1	4
	7:45 AM	0	0	1	2	2	0	0	1	0	1	0	0	7
	8:00 AM	0	0	0	0	0	0	0	1	0	1	4	2	8
	8:15 AM	0	1	0	0	0	0	0	0	0	0	0	2	3
	8:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	1	1	5	2	0	0	4	1	3	8	7	33
	APPROACH %	33%	33%	33%	71%	29%	0%	0%	80%	20%	17%	44%	39%	
	APP/DEPART	3	/	8	7	/	6	5	/	10	18	/	9	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	1	5	2	0	0	3	0	3	5	3	22
	APPROACH %	0%	0%	100%	71%	29%	0%	0%	100%	0%	27%	45%	27%	
	PEAK HR FACTOR		0.250			0.438			0.750			0.393		0.688
	APP/DEPART	1	/	3	7	/	5	3	/	9	11	/	5	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	1	2	3
	4:15 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	1	0	0	0	0	0	2	2	5
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	50%	50%	
	APP/DEPART	0	/	2	1	/	1	0	/	0	4	/	2	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	1	0	0	0	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.250			0.000			0.000		0.250
	APP/DEPART	0	/	0	1	/	1	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	1	1
0	0	0	0
0	0	0	0
1	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1	0	1	1
1	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Euclid

NORTH SIDE

Kimball WEST SIDE EAST SIDE **Kimball**

SOUTH SIDE

Euclid

INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 29, 22

LOCATION: Ontario
NORTH & SOUTH: Bon View
EAST & WEST: Schaefer

PROJECT #: SC3761
LOCATION #: 4
CONTROL: STOP ALL

NOTES:

AM
PM
MD
OTHER
OTHER

N ▲ | ◄ W | E ► | S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Bon View)			SOUTHBOUND (Bon View)			EASTBOUND (Schaefer)			WESTBOUND (Schaefer)				U-TURNS					RTOR			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	2	14	1	1	25	5	4	11	4	5	34	6	112	0	0	0	0	0	0	0	0	0
AM	7:15 AM	4	18	1	3	28	15	6	17	0	2	32	4	130	0	0	0	0	0	0	0	0	0
AM	7:30 AM	4	37	3	6	19	10	2	18	2	1	41	2	145	0	0	0	0	0	0	0	0	0
AM	7:45 AM	6	23	2	2	27	9	5	20	3	3	40	1	141	0	0	0	0	0	0	0	0	0
AM	8:00 AM	1	11	3	3	26	10	3	15	0	2	34	3	111	0	0	0	0	0	0	0	0	0
AM	8:15 AM	2	25	4	1	23	5	3	13	2	2	36	3	119	0	0	0	0	0	0	0	0	0
AM	8:30 AM	5	16	1	2	18	0	1	17	4	2	25	2	93	0	0	0	0	0	0	0	0	0
AM	8:45 AM	2	15	0	4	24	9	8	10	3	3	29	2	109	0	0	0	0	0	0	0	0	0
AM	VOLUMES	26	159	15	22	190	63	32	121	18	20	271	23	960	0	0	0	0	0	0	0	0	0
AM	APPROACH %	13%	80%	8%	8%	69%	23%	19%	71%	11%	6%	86%	7%										
AM	APP/DEPART	200	/	214	275	/	228	171	/	158	314	/	360	0									
AM	BEGIN PEAK HR		7:00 AM																				
AM	VOLUMES	16	92	7	12	99	39	17	66	9	11	147	13	528						0	0	0	0
AM	APPROACH %	14%	80%	6%	8%	66%	26%	18%	72%	10%	6%	86%	8%										
AM	PEAK HR FACTOR		0.653			0.815			0.821			0.950		0.910									
AM	APP/DEPART	115	/	122	150	/	119	92	/	85	171	/	202	0									
PM	04:00 PM	9	44	5	4	18	7	14	58	7	1	16	2	185	0	0	0	0	0	0	0	0	0
PM	4:15 PM	1	34	2	5	16	2	13	63	3	1	19	3	162	0	0	0	0	0	0	0	0	0
PM	4:30 PM	6	38	2	1	26	6	12	69	4	1	14	3	182	0	0	0	0	0	0	0	0	0
PM	4:45 PM	2	31	4	4	18	2	10	75	4	2	11	4	167	0	0	0	0	0	0	0	0	0
PM	5:00 PM	7	33	3	3	15	3	12	65	4	0	18	2	165	0	0	0	0	0	0	0	0	0
PM	5:15 PM	3	33	2	0	17	2	16	59	4	1	19	2	158	0	0	0	0	0	0	0	0	0
PM	5:30 PM	3	31	1	0	26	3	12	54	6	0	20	0	156	0	0	0	0	0	0	0	0	0
PM	5:45 PM	0	18	1	0	9	4	7	53	2	0	21	2	117	0	0	0	0	0	0	0	0	0
PM	VOLUMES	31	262	20	17	145	29	96	496	34	6	138	18	1,292	0	0	0	0	0	0	0	0	0
PM	APPROACH %	10%	84%	6%	9%	76%	15%	15%	79%	5%	4%	85%	11%										
PM	APP/DEPART	313	/	376	191	/	185	626	/	533	162	/	198	0									
PM	BEGIN PEAK HR		4:00 PM																				
PM	VOLUMES	18	147	13	14	78	17	49	265	18	5	60	12	696						0	0	0	0
PM	APPROACH %	10%	83%	7%	13%	72%	16%	15%	80%	5%	6%	78%	16%										
PM	PEAK HR FACTOR		0.767			0.826			0.933			0.837		0.941									
PM	APP/DEPART	178	/	208	109	/	101	332	/	292	77	/	95	0									

Bon View

NORTH SIDE

Schaefer WEST SIDE EAST SIDE **Schaefer**

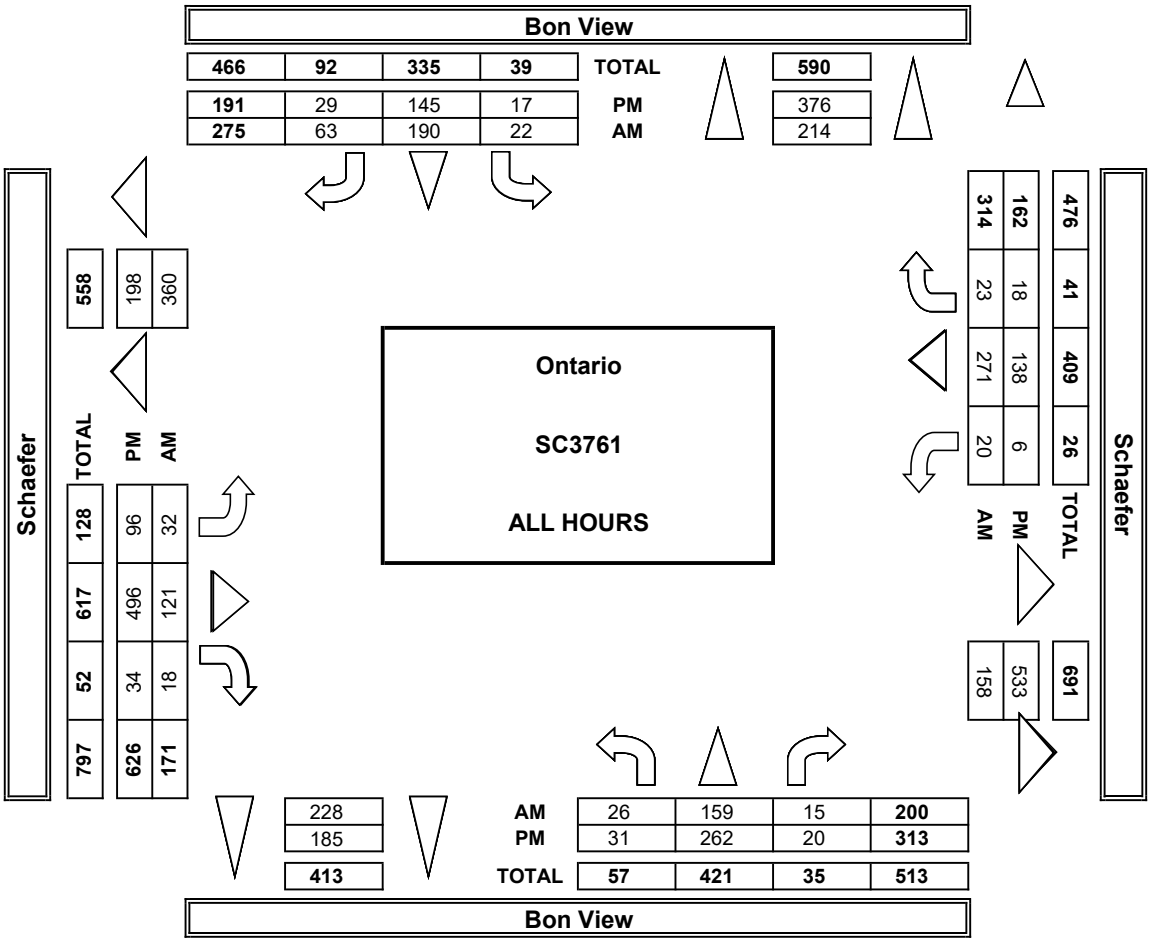
SOUTH SIDE

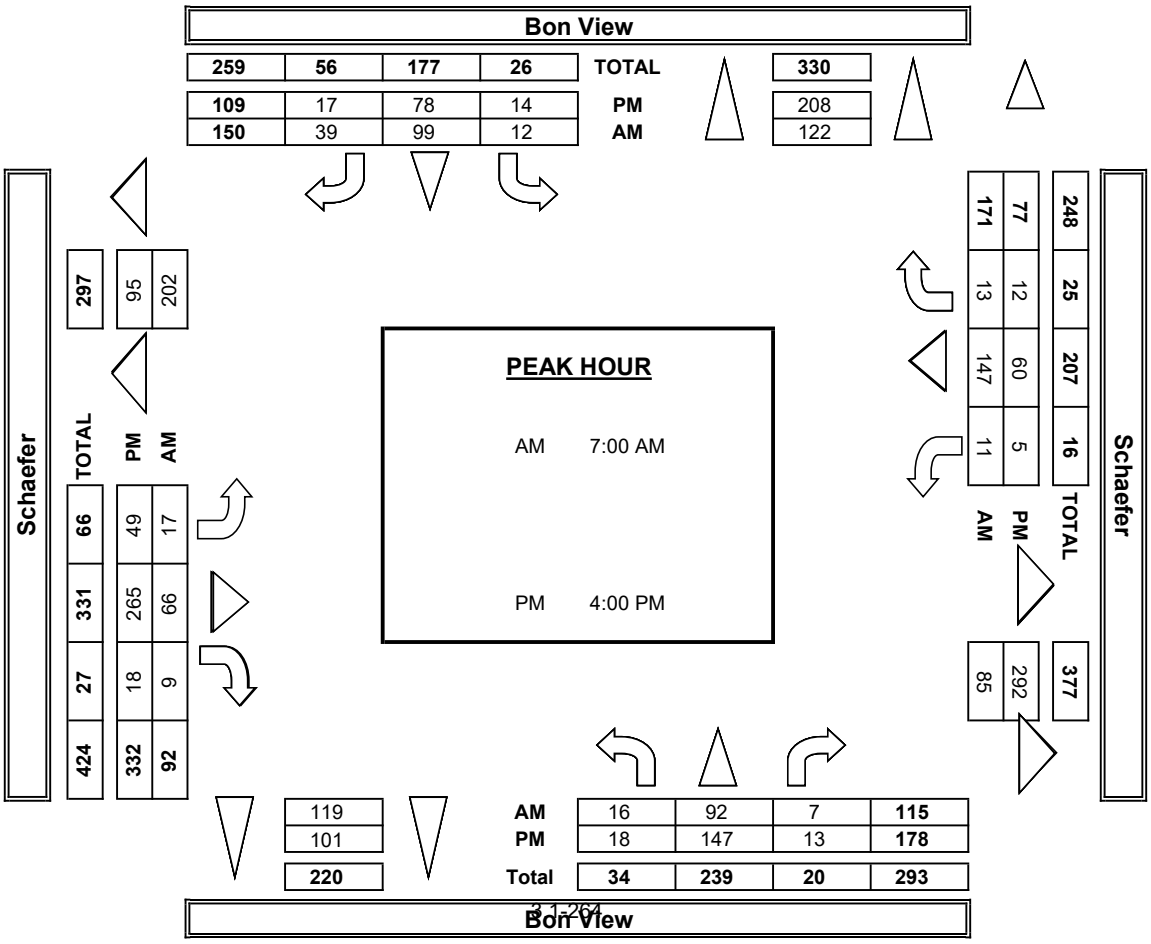
Bon View

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	4
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Bon View			SOUTHBOUND Bon View			EASTBOUND Schaefer			WESTBOUND Schaefer			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	2	12	0	1	24	5	4	5	4	3	11	6	77
	7:15 AM	4	17	1	1	27	14	6	14	0	1	10	2	97
	7:30 AM	4	35	1	4	14	9	2	11	2	1	18	2	103
	7:45 AM	4	23	0	1	26	6	5	14	3	1	21	1	105
	8:00 AM	1	10	1	2	25	10	2	6	0	0	17	2	76
	8:15 AM	2	23	2	0	21	5	3	8	1	1	16	2	84
	8:30 AM	4	16	1	2	17	0	1	9	4	0	14	0	68
	8:45 AM	2	11	0	3	21	8	7	6	3	0	16	2	79
	VOLUMES	23	147	6	14	175	57	30	73	17	7	123	17	689
	APPROACH %	13%	84%	3%	6%	71%	23%	25%	61%	14%	5%	84%	12%	
	APP/DEPART	176	/	194	246	/	199	120	/	93	147	/	203	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	14	87	2	7	91	34	17	44	9	6	60	11	382
	APPROACH %	14%	84%	2%	5%	69%	26%	24%	63%	13%	8%	78%	14%	
	PEAK HR FACTOR		0.644			0.786			0.795			0.837		0.910
	APP/DEPART	103	/	115	132	/	106	70	/	53	77	/	108	0
PM	04:00 PM	6	41	4	3	16	7	13	47	6	0	13	2	158
	4:15 PM	1	30	1	5	16	2	13	46	3	0	13	2	132
	4:30 PM	5	37	2	1	24	6	11	58	3	1	11	3	162
	4:45 PM	1	29	3	2	16	1	9	53	4	2	9	3	132
	5:00 PM	7	32	3	3	13	3	12	55	4	0	13	2	147
	5:15 PM	3	31	1	0	15	1	15	48	4	1	10	2	131
	5:30 PM	2	28	1	0	25	3	11	43	6	0	13	0	132
	5:45 PM	0	16	0	0	9	4	7	37	2	0	12	1	88
	VOLUMES	25	244	15	14	134	27	91	387	32	4	94	15	1,082
	APPROACH %	9%	86%	5%	8%	77%	15%	18%	76%	6%	4%	83%	13%	
	APP/DEPART	284	/	350	175	/	170	510	/	416	113	/	146	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	13	137	10	11	72	16	46	204	16	3	46	10	584
	APPROACH %	8%	86%	6%	11%	73%	16%	17%	77%	6%	5%	78%	17%	
	PEAK HR FACTOR		0.784			0.798			0.924			0.983		0.901
	APP/DEPART	160	/	193	99	/	91	266	/	225	59	/	75	0

U-TURNS					
	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
PM	0	0	0	0	0
	0	0	0	0	0

RTOR				
	NRR X	SRR X	ERR X	WRR X
AM	0	0	0	0
PM	0	0	0	0
	0	0	0	0

Bon View

NORTH SIDE

Schaefer WEST SIDE EAST SIDE **Schaefer**

SOUTH SIDE

Bon View

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	4
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

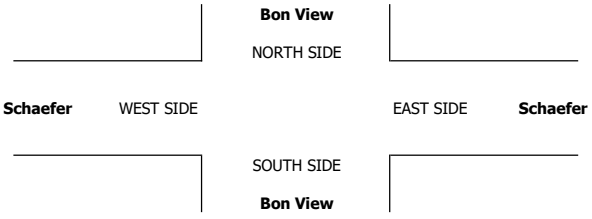
		NORTHBOUND (Bon View)			SOUTHBOUND (Bon View)			EASTBOUND (Schaefer)			WESTBOUND (Schaefer)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	1	0	0	2	0	2	1	0	6
	7:15 AM	0	0	0	1	0	0	0	1	0	0	1	1	4
	7:30 AM	0	1	1	1	2	0	0	1	0	0	4	0	10
	7:45 AM	2	0	0	0	1	0	0	0	0	0	3	0	6
	8:00 AM	0	0	1	0	1	0	1	0	0	0	1	0	4
	8:15 AM	0	0	2	0	0	0	0	0	0	1	2	0	5
	8:30 AM	1	0	0	0	1	0	0	2	0	1	1	1	7
	8:45 AM	0	1	0	0	2	1	1	1	0	1	0	0	7
	VOLUMES	3	2	4	2	8	1	2	7	0	5	13	2	49
	APPROACH %	33%	22%	44%	18%	73%	9%	22%	78%	0%	25%	65%	10%	
	APP/DEPART	9	/	6	11	/	13	9	/	13	20	/	17	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	2	1	1	2	4	0	0	4	0	2	9	1	26
	APPROACH %	50%	25%	25%	33%	67%	0%	0%	100%	0%	17%	75%	8%	
	PEAK HR FACTOR		0.500			0.500			0.500			0.750		0.650
	APP/DEPART	4	/	2	6	/	6	4	/	7	12	/	11	0
PM	04:00 PM	1	2	0	1	1	0	0	3	1	0	0	0	9
	4:15 PM	0	3	0	0	0	0	0	1	0	1	0	1	6
	4:30 PM	0	0	0	0	2	0	1	1	0	0	2	0	6
	4:45 PM	0	2	0	2	0	0	0	6	0	0	0	1	11
	5:00 PM	0	1	0	0	2	0	0	2	0	0	0	0	5
	5:15 PM	0	2	0	0	2	0	0	2	0	0	0	0	6
	5:30 PM	1	2	0	0	1	0	1	3	0	0	1	0	9
	5:45 PM	0	2	0	0	0	0	0	2	0	0	0	1	5
	VOLUMES	2	14	0	3	8	0	2	20	1	1	3	3	57
	APPROACH %	13%	88%	0%	27%	73%	0%	9%	87%	4%	14%	43%	43%	
	APP/DEPART	16	/	19	11	/	10	23	/	23	7	/	5	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	1	7	0	3	3	0	1	11	1	1	2	2	32
	APPROACH %	13%	88%	0%	50%	50%	0%	8%	85%	8%	20%	40%	40%	
	PEAK HR FACTOR		0.667			0.750			0.542			0.625		0.727
	APP/DEPART	8	/	10	6	/	5	13	/	14	5	/	3	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	4
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

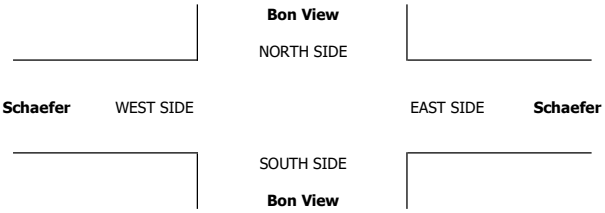
		NORTHBOUND Bon View			SOUTHBOUND Bon View			EASTBOUND Schaefer			WESTBOUND Schaefer			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	1	0	0	0	0	2	0	0	3	0	6
	7:15 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	7:30 AM	0	1	1	1	0	0	0	2	0	0	1	0	6
	7:45 AM	0	0	0	1	0	2	0	4	0	1	2	0	10
	8:00 AM	0	0	0	0	0	0	0	3	0	1	2	0	6
	8:15 AM	0	1	0	0	1	0	0	0	0	0	5	1	8
	8:30 AM	0	0	0	0	0	0	0	1	0	0	3	0	4
	8:45 AM	0	1	0	1	1	0	0	2	0	0	4	0	9
	VOLUMES	0	3	2	3	2	2	0	15	0	2	21	1	51
	APPROACH %	0%	60%	40%	43%	29%	29%	0%	100%	0%	8%	88%	4%	
	APP/DEPART	5	/	4	7	/	4	15	/	20	24	/	23	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	1	2	2	0	2	0	9	0	1	7	0	24
	APPROACH %	0%	33%	67%	50%	0%	50%	0%	100%	0%	13%	88%	0%	
	PEAK HR FACTOR		0.375			0.333			0.563			0.667		0.600
	APP/DEPART	3	/	1	4	/	1	9	/	13	8	/	9	0
PM	04:00 PM	1	1	0	0	0	0	1	1	0	0	0	0	4
	4:15 PM	0	1	0	0	0	0	0	4	0	0	3	0	8
	4:30 PM	0	0	0	0	0	0	0	4	0	0	1	0	5
	4:45 PM	0	0	0	0	0	1	0	3	0	0	1	0	5
	5:00 PM	0	0	0	0	0	0	0	3	0	0	1	0	4
	5:15 PM	0	0	1	0	0	0	1	1	0	0	0	0	3
	5:30 PM	0	0	0	0	0	0	0	2	0	0	1	0	3
	5:45 PM	0	0	1	0	0	0	0	1	0	0	0	0	2
	VOLUMES	1	2	2	0	0	1	2	19	0	0	7	0	34
	APPROACH %	20%	40%	40%	0%	0%	100%	10%	90%	0%	0%	100%	0%	
	APP/DEPART	5	/	4	1	/	0	21	/	21	7	/	9	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	1	2	0	0	0	1	1	12	0	0	5	0	22
	APPROACH %	33%	67%	0%	0%	0%	100%	8%	92%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.375			0.250			0.813			0.417		0.688
	APP/DEPART	3	/	3	1	/	0	13	/	12	5	/	7	0

U-TURNS

AM NB	AM SB	AM EB	AM WB	AM TTL	PM NB	PM SB	PM EB	PM WB	PM TTL
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

RTOR

AM NRR	AM SRR	AM ERR	AM WRR	PM NRR	PM SRR	PM ERR	PM WRR
X	X	X	X	X	X	X	X
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	4
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

		NORTHBOUND Bon View			SOUTHBOUND Bon View			EASTBOUND Schaefer			WESTBOUND Schaefer			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	2	0	0	0	0	0	1	0	0	18	0	21
	7:15 AM	0	1	0	1	1	1	0	1	0	1	20	1	27
	7:30 AM	0	0	0	0	3	1	0	4	0	0	18	0	26
	7:45 AM	0	0	2	0	0	1	0	2	0	1	14	0	20
	8:00 AM	0	1	1	1	0	0	0	5	0	1	14	1	24
	8:15 AM	0	1	0	1	1	0	0	5	1	0	13	0	22
	8:30 AM	0	0	0	0	0	0	0	5	0	1	7	1	14
	8:45 AM	0	2	0	0	0	0	0	1	0	2	9	0	14
	VOLUMES	0	7	3	3	5	3	0	24	1	6	113	3	168
	APPROACH %	0%	70%	30%	27%	45%	27%	0%	96%	4%	5%	93%	2%	
	APP/DEPART	10	/	10	11	/	12	25	/	30	122	/	116	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	3	2	1	4	3	0	8	0	2	70	1	94
	APPROACH %	0%	60%	40%	13%	50%	38%	0%	100%	0%	3%	96%	1%	
	PEAK HR FACTOR		0.625			0.500			0.500			0.830		0.870
	APP/DEPART	5	/	4	8	/	6	8	/	11	73	/	73	0
PM	04:00 PM	1	0	1	0	0	0	0	7	0	1	3	0	13
	4:15 PM	0	0	1	0	0	0	0	12	0	0	3	0	16
	4:30 PM	1	1	0	0	0	0	0	6	1	0	0	0	9
	4:45 PM	1	0	1	0	2	0	1	13	0	0	1	0	19
	5:00 PM	0	0	0	0	0	0	0	5	0	0	4	0	9
	5:15 PM	0	0	0	0	0	1	0	8	0	0	9	0	18
	5:30 PM	0	1	0	0	0	0	0	6	0	0	5	0	12
	5:45 PM	0	0	0	0	0	0	0	13	0	0	9	0	22
	VOLUMES	3	2	3	0	2	1	1	70	1	1	34	0	118
	APPROACH %	38%	25%	38%	0%	67%	33%	1%	97%	1%	3%	97%	0%	
	APP/DEPART	8	/	3	3	/	4	72	/	73	35	/	38	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	3	1	3	0	2	0	1	38	1	1	7	0	57
	APPROACH %	43%	14%	43%	0%	100%	0%	3%	95%	3%	13%	88%	0%	
	PEAK HR FACTOR		0.875			0.250			0.714			0.500		0.750
	APP/DEPART	7	/	2	2	/	4	40	/	41	8	/	10	0

U-TURNS

	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
PM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

RTOR

	NRR X	SRR X	ERR X	WRR X
AM	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
PM	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0

Bon View

NORTH SIDE

Schaefer WEST SIDE EAST SIDE **Schaefer**

SOUTH SIDE

Bon View

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	4
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Bon View			SOUTHBOUND Bon View			EASTBOUND Schaefer			WESTBOUND Schaefer			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Bon View

NORTH SIDE

Schaefer WEST SIDE EAST SIDE **Schaefer**

SOUTH SIDE

Bon View

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	4
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

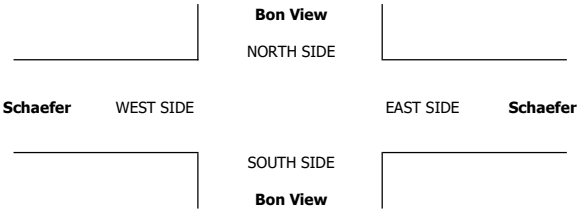
		NORTHBOUND (Bon View)			SOUTHBOUND (Bon View)			EASTBOUND (Schaefer)			WESTBOUND (Schaefer)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	2	0	0	1	0	3
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	0	2	/	2	1	/	1	0
	BEGIN PEAK HR		7:00 AM											
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.000			0.250			0.250		0.250
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0
PM	04:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	1	0	0	0	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	1	/	1	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	1	0	0	0	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.250			0.000			0.000		0.250
	APP/DEPART	0	/	0	1	/	1	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 29, 22

LOCATION: Ontario
NORTH & SOUTH: Bon View
EAST & WEST: Edison

PROJECT #: SC3761
LOCATION #: 5
CONTROL: STOP ALL

NOTES:

AM
PM
MD
OTHER
OTHER

N ▲ | ◄ W | E ► | S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Bon View)			SOUTHBOUND (Bon View)			EASTBOUND (Edison)			WESTBOUND (Edison)				U-TURNS					RTOR			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	2	12	3	3	26	6	4	30	2	3	76	0	167	0	0	0	0	0	0	0	0	0
AM	7:15 AM	2	18	2	1	19	13	7	27	1	1	64	1	156	0	0	0	0	0	0	0	0	0
AM	7:30 AM	2	28	1	4	14	5	11	27	0	1	92	8	193	0	0	0	0	0	0	0	0	0
AM	7:45 AM	2	22	1	2	21	11	6	53	2	0	111	5	236	0	0	0	0	0	0	0	0	0
AM	8:00 AM	1	4	0	1	20	6	4	47	4	2	76	2	167	0	0	0	0	0	0	0	0	0
AM	8:15 AM	3	19	1	2	18	4	8	41	3	2	79	8	188	0	0	0	0	0	0	0	0	0
AM	8:30 AM	1	9	1	3	14	7	6	45	2	3	90	3	184	0	0	0	0	0	0	0	0	0
AM	8:45 AM	1	6	1	4	16	9	5	38	0	3	73	5	161	0	0	0	0	0	0	0	0	0
AM	VOLUMES	14	118	10	20	148	61	51	308	14	15	661	32	1,452	0	0	0	0	0	0	0	0	0
AM	APPROACH %	10%	83%	7%	9%	65%	27%	14%	83%	4%	2%	93%	5%										
AM	APP/DEPART	142	/	201	229	/	177	373	/	338	708	/	736	0									
AM	BEGIN PEAK HR		7:30 AM																				
AM	VOLUMES	8	73	3	9	73	26	29	168	9	5	358	23	784						0	0	0	0
AM	APPROACH %	10%	87%	4%	8%	68%	24%	14%	82%	4%	1%	93%	6%										
AM	PEAK HR FACTOR		0.677			0.794			0.844			0.832		0.831									
AM	APP/DEPART	84	/	125	108	/	87	206	/	180	386	/	392	0									
PM	04:00 PM	2	41	4	5	14	8	14	93	4	0	40	4	229	0	0	0	0	0	0	0	0	0
PM	4:15 PM	2	20	3	3	15	3	16	116	7	1	44	1	231	0	0	0	0	0	0	0	0	0
PM	4:30 PM	3	31	1	4	20	5	14	113	7	3	43	5	249	0	0	0	0	0	0	0	0	0
PM	4:45 PM	0	18	0	5	14	4	9	111	2	1	43	0	207	0	0	0	0	0	0	0	0	0
PM	5:00 PM	3	20	0	1	15	3	22	98	3	4	40	2	211	0	0	0	0	0	0	0	0	0
PM	5:15 PM	1	24	1	5	14	3	14	103	3	4	48	0	220	0	0	0	0	0	0	0	0	0
PM	5:30 PM	1	13	1	4	21	6	15	134	1	0	50	1	247	0	0	0	0	0	0	0	0	0
PM	5:45 PM	1	9	0	2	9	0	8	90	5	0	36	2	162	0	0	0	0	0	0	0	0	0
PM	VOLUMES	13	176	10	29	122	32	112	858	32	13	344	15	1,756	0	0	0	0	0	0	0	0	0
PM	APPROACH %	7%	88%	5%	16%	67%	17%	11%	86%	3%	3%	92%	4%										
PM	APP/DEPART	199	/	303	183	/	167	1,002	/	897	372	/	389	0									
PM	BEGIN PEAK HR		4:00 PM																				
PM	VOLUMES	7	110	8	17	63	20	53	433	20	5	170	10	916						0	0	0	0
PM	APPROACH %	6%	88%	6%	17%	63%	20%	10%	86%	4%	3%	92%	5%										
PM	PEAK HR FACTOR		0.665			0.862			0.910			0.907		0.920									
PM	APP/DEPART	125	/	173	100	/	88	506	/	458	185	/	197	0									

Bon View

NORTH SIDE

Edison WEST SIDE EAST SIDE **Edison**

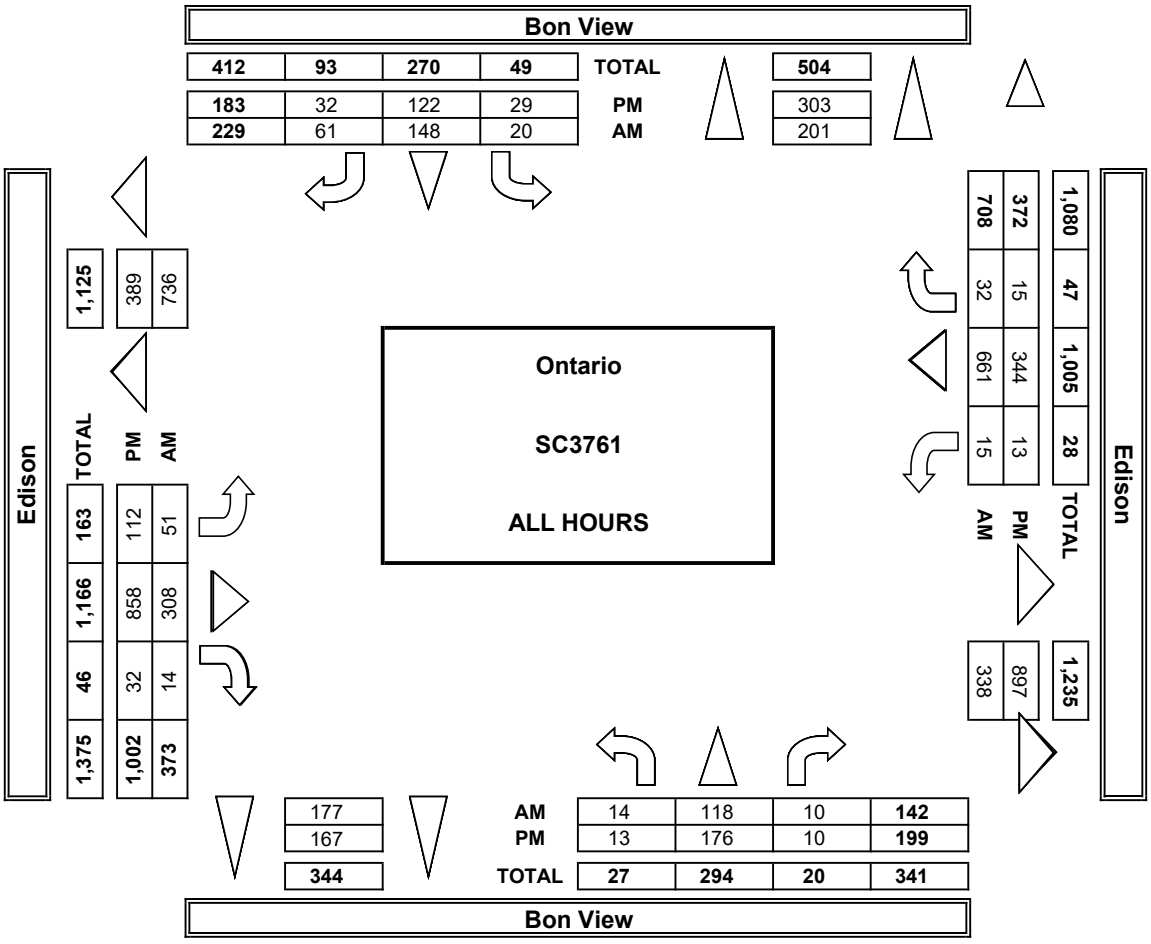
SOUTH SIDE

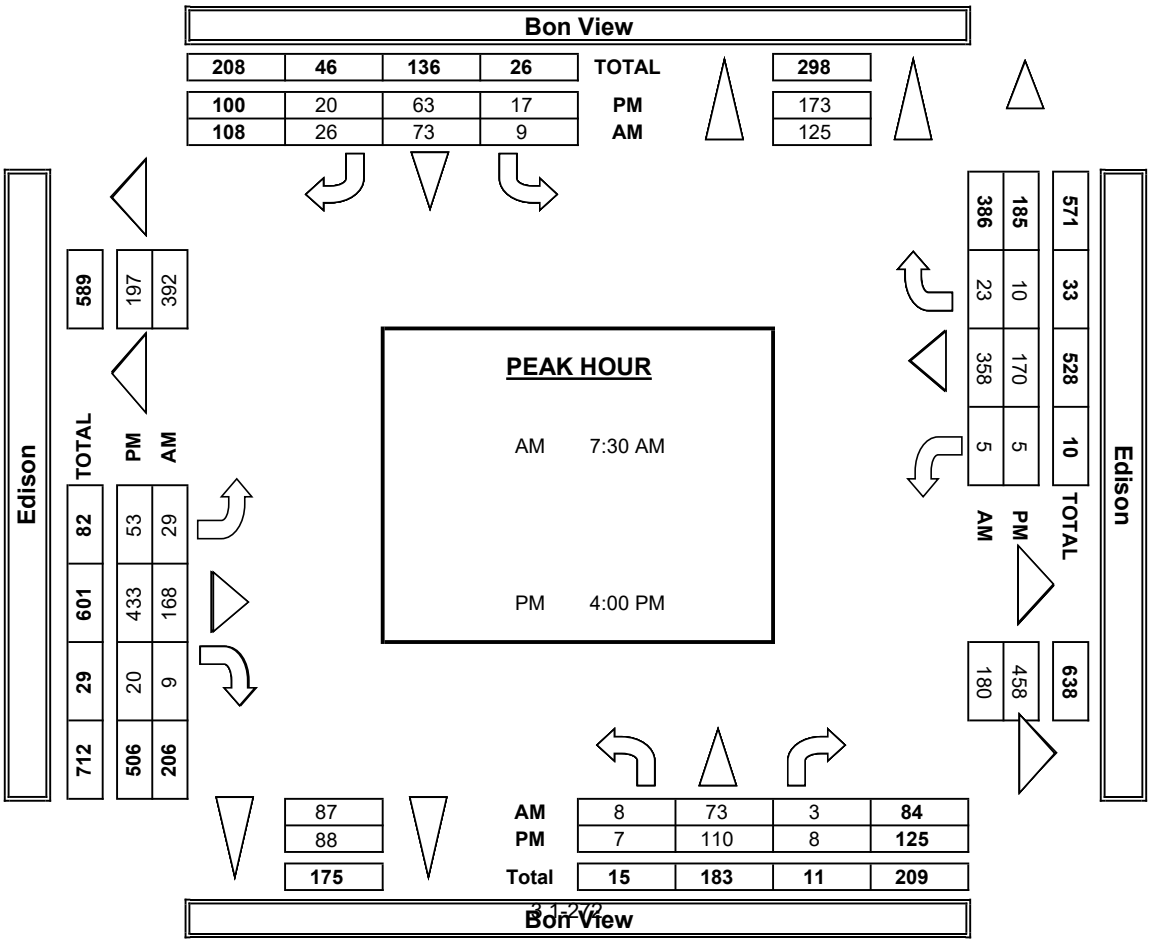
Bon View

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	5
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Bon View)			SOUTHBOUND (Bon View)			EASTBOUND (Edison)			WESTBOUND (Edison)			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM													
7:00 AM	0	10	0	3	22	6	3	20	2	1	67	0	134
7:15 AM	1	17	1	1	17	12	6	15	1	1	53	1	126
7:30 AM	2	27	0	3	13	1	7	18	0	1	73	5	150
7:45 AM	1	20	1	1	19	10	5	36	0	0	95	4	192
8:00 AM	1	4	0	1	18	5	1	34	3	1	64	1	133
8:15 AM	1	17	1	2	18	3	7	26	2	1	71	8	157
8:30 AM	0	8	1	3	13	5	6	30	2	2	73	3	146
8:45 AM	1	5	1	4	11	9	4	29	0	0	63	5	132
VOLUMES	7	108	5	18	131	51	39	208	10	7	559	27	1,170
APPROACH %	6%	90%	4%	9%	66%	26%	15%	81%	4%	1%	94%	5%	
APP/DEPART	120	/	174	200	/	148	257	/	231	593	/	617	0
BEGIN PEAK HR		7:30 AM											
VOLUMES	5	68	2	7	68	19	20	114	5	3	303	18	632
APPROACH %	7%	91%	3%	7%	72%	20%	14%	82%	4%	1%	94%	6%	
PEAK HR FACTOR		0.647			0.783			0.848			0.818		0.823
APP/DEPART	75	/	106	94	/	76	139	/	123	324	/	327	0
PM													
04:00 PM	2	35	3	4	12	6	12	77	3	0	37	3	194
4:15 PM	2	20	2	3	14	2	15	98	7	1	40	0	204
4:30 PM	3	30	1	4	18	5	13	97	6	2	38	3	220
4:45 PM	0	16	0	4	12	4	8	99	2	1	36	0	182
5:00 PM	3	20	0	1	14	1	22	89	3	4	39	1	197
5:15 PM	1	24	1	5	13	2	12	90	2	4	44	0	198
5:30 PM	1	13	1	4	20	5	13	123	1	0	44	0	225
5:45 PM	1	9	0	2	9	0	7	83	4	0	30	2	147
VOLUMES	13	167	8	27	112	25	102	756	28	12	308	9	1,567
APPROACH %	7%	89%	4%	16%	68%	15%	12%	85%	3%	4%	94%	3%	
APP/DEPART	188	/	278	164	/	152	886	/	791	329	/	346	0
BEGIN PEAK HR		4:00 PM											
VOLUMES	7	101	6	15	56	17	48	371	18	4	151	6	800
APPROACH %	6%	89%	5%	17%	64%	19%	11%	85%	4%	2%	94%	4%	
PEAK HR FACTOR		0.713			0.815			0.910			0.936		0.909
APP/DEPART	114	/	155	88	/	78	437	/	392	161	/	175	0

U-TURNS					
NB	SB	EB	WB	TTL	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	
0	0	0	0	0	

RTOR			
NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Bon View

NORTH SIDE

Edison WEST SIDE EAST SIDE **Edison**

SOUTH SIDE

Bon View

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	5
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Bon View)			SOUTHBOUND (Bon View)			EASTBOUND (Edison)			WESTBOUND (Edison)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	1	1	1	0	2	0	0	3	0	1	2	0	11
	7:15 AM	0	1	1	0	1	0	0	3	0	0	2	0	8
	7:30 AM	0	0	0	1	0	2	3	1	0	0	5	0	12
	7:45 AM	1	1	0	1	0	0	0	7	1	0	4	1	16
	8:00 AM	0	0	0	0	2	0	2	2	0	1	3	0	10
	8:15 AM	1	0	0	0	0	0	0	3	0	0	5	0	9
	8:30 AM	0	1	0	0	1	0	0	5	0	0	4	0	11
	8:45 AM	0	1	0	0	3	0	0	0	0	0	5	0	9
	VOLUMES	3	5	2	2	9	2	5	24	1	2	30	1	86
	APPROACH %	30%	50%	20%	15%	69%	15%	17%	80%	3%	6%	91%	3%	
	APP/DEPART	10	/	11	13	/	12	30	/	28	33	/	35	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	2	1	0	2	2	2	5	13	1	1	17	1	47
	APPROACH %	67%	33%	0%	33%	33%	33%	26%	68%	5%	5%	89%	5%	
	PEAK HR FACTOR		0.375			0.500			0.594			0.950		0.734
	APP/DEPART	3	/	7	6	/	4	19	/	15	19	/	21	0
PM	04:00 PM	0	3	0	1	0	2	1	8	0	0	2	0	17
	4:15 PM	0	0	0	0	1	1	0	8	0	0	1	1	12
	4:30 PM	0	1	0	0	1	0	1	4	1	1	1	0	10
	4:45 PM	0	1	0	1	0	0	0	4	0	0	3	0	9
	5:00 PM	0	0	0	0	1	2	0	5	0	0	1	1	10
	5:15 PM	0	0	0	0	1	1	1	8	0	0	1	0	12
	5:30 PM	0	0	0	0	1	1	1	3	0	0	0	1	7
	5:45 PM	0	0	0	0	0	0	0	0	1	0	2	0	3
	VOLUMES	0	5	0	2	5	7	4	40	2	1	11	3	80
	APPROACH %	0%	100%	0%	14%	36%	50%	9%	87%	4%	7%	73%	20%	
	APP/DEPART	5	/	12	14	/	8	46	/	42	15	/	18	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	5	0	2	2	3	2	24	1	1	7	1	48
	APPROACH %	0%	100%	0%	29%	29%	43%	7%	89%	4%	11%	78%	11%	
	PEAK HR FACTOR		0.417			0.583			0.750			0.750		0.706
	APP/DEPART	5	/	8	7	/	4	27	/	26	9	/	10	0

U-TURNS					
	NB	SB	EB	WB	TTL
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

RTOR				
	NRR X	SRR X	ERR X	WRR X
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0

Bon View

NORTH SIDE

Edison WEST SIDE EAST SIDE **Edison**

SOUTH SIDE

Bon View

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	5
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

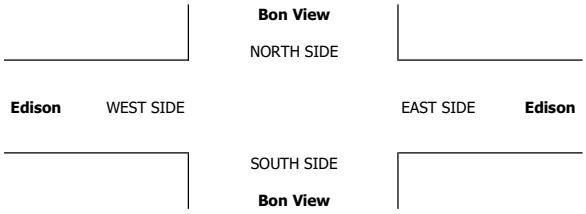
		NORTHBOUND Bon View			SOUTHBOUND Bon View			EASTBOUND Edison			WESTBOUND Edison			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	3	0	1	2	0	6
	7:15 AM	0	0	0	0	0	0	0	6	0	0	1	0	7
	7:30 AM	0	1	0	0	0	0	1	0	0	0	3	1	6
	7:45 AM	0	0	0	0	1	1	0	1	0	0	4	0	7
	8:00 AM	0	0	0	0	0	1	0	3	0	0	3	1	8
	8:15 AM	0	1	0	0	0	1	1	4	0	1	0	0	8
	8:30 AM	0	0	0	0	0	0	0	2	0	0	4	0	6
	8:45 AM	0	0	0	0	1	0	0	2	0	0	2	0	5
	VOLUMES	0	2	0	0	2	3	2	21	0	2	19	2	53
	APPROACH %	0%	100%	0%	0%	40%	60%	9%	91%	0%	9%	83%	9%	
	APP/DEPART	2	/	6	5	/	4	23	/	21	23	/	22	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	2	0	0	1	3	2	8	0	1	10	2	29
	APPROACH %	0%	100%	0%	0%	25%	75%	20%	80%	0%	8%	77%	15%	
	PEAK HR FACTOR		0.500			0.500			0.500			0.813		0.906
	APP/DEPART	2	/	6	4	/	2	10	/	8	13	/	13	0
PM	04:00 PM	0	1	0	0	0	0	0	1	0	0	1	1	4
	4:15 PM	0	0	0	0	0	0	1	1	0	0	0	0	2
	4:30 PM	0	0	0	0	0	0	0	2	0	0	2	0	4
	4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:00 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	5:15 PM	0	0	0	0	0	0	1	1	0	0	1	0	3
	5:30 PM	0	0	0	0	0	0	0	0	0	0	2	0	2
	5:45 PM	0	0	0	0	0	0	1	0	0	0	1	0	2
	VOLUMES	0	1	0	0	0	0	3	6	0	0	8	1	19
	APPROACH %	0%	100%	0%	0%	0%	0%	33%	67%	0%	0%	89%	11%	
	APP/DEPART	1	/	5	0	/	0	9	/	6	9	/	8	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	1	0	0	0	0	1	4	0	0	4	1	11
	APPROACH %	0%	100%	0%	0%	0%	0%	20%	80%	0%	0%	80%	20%	
	PEAK HR FACTOR		0.250			0.000			0.625			0.625		0.688
	APP/DEPART	1	/	3	0	/	0	5	/	4	5	/	4	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	5
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

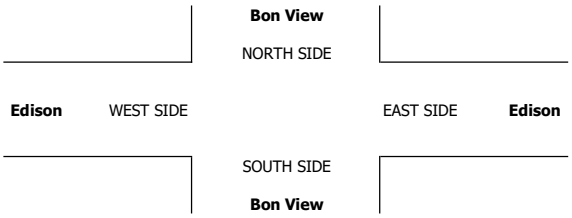
		NORTHBOUND Bon View			SOUTHBOUND Bon View			EASTBOUND Edison			WESTBOUND Edison			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	1	2	0	2	0	1	4	0	0	5	0	15
	7:15 AM	1	0	0	0	1	1	1	2	0	0	7	0	13
	7:30 AM	0	0	1	0	1	2	0	8	0	0	11	2	25
	7:45 AM	0	1	0	0	1	0	1	7	1	0	7	0	18
	8:00 AM	0	0	0	0	0	0	1	7	1	0	5	0	14
	8:15 AM	1	1	0	0	0	0	0	8	1	0	3	0	14
	8:30 AM	1	0	0	0	0	2	0	8	0	1	8	0	20
	8:45 AM	0	0	0	0	1	0	1	7	0	3	3	0	15
	VOLUMES	3	3	3	0	6	5	5	51	3	4	49	2	134
	APPROACH %	33%	33%	33%	0%	55%	45%	8%	86%	5%	7%	89%	4%	
	APP/DEPART	9	/	10	11	/	13	59	/	54	55	/	57	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	1	2	1	0	2	2	2	30	3	0	26	2	71
	APPROACH %	25%	50%	25%	0%	50%	50%	6%	86%	9%	0%	93%	7%	
	PEAK HR FACTOR		0.500			0.333			0.972			0.538		0.710
	APP/DEPART	4	/	6	4	/	5	35	/	31	28	/	29	0
PM	04:00 PM	0	2	1	0	1	0	1	7	1	0	0	0	13
	4:15 PM	0	0	1	0	0	0	0	8	0	0	3	0	12
	4:30 PM	0	0	0	0	1	0	0	10	0	0	2	2	15
	4:45 PM	0	1	0	0	2	0	1	7	0	0	3	0	14
	5:00 PM	0	0	0	0	0	0	0	3	0	0	0	0	3
	5:15 PM	0	0	0	0	0	0	0	4	1	0	2	0	7
	5:30 PM	0	0	0	0	0	0	1	8	0	0	3	0	12
	5:45 PM	0	0	0	0	0	0	0	7	0	0	3	0	10
	VOLUMES	0	3	2	0	4	0	3	54	2	0	16	2	86
	APPROACH %	0%	60%	40%	0%	100%	0%	5%	92%	3%	0%	89%	11%	
	APP/DEPART	5	/	8	4	/	6	59	/	56	18	/	16	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	3	2	0	4	0	2	32	1	0	8	2	54
	APPROACH %	0%	60%	40%	0%	100%	0%	6%	91%	3%	0%	80%	20%	
	PEAK HR FACTOR		0.417			0.500			0.875			0.625		0.900
	APP/DEPART	5	/	7	4	/	5	35	/	34	10	/	8	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	5
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Bon View			SOUTHBOUND Bon View			EASTBOUND Edison			WESTBOUND Edison			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	1	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.250			0.000		0.250
	APP/DEPART	0	/	0	0	/	0	1	/	1	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Bon View

NORTH SIDE

Edison WEST SIDE EAST SIDE **Edison**

SOUTH SIDE

Bon View

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Bon View	LOCATION #:	5
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Bon View)			SOUTHBOUND (Bon View)			EASTBOUND (Edison)			WESTBOUND (Edison)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	1	0	0	0	0	0	0	0	0	0	0	0	1
	7:15 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	2	0	0	1	0	3
	8:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	0	0	0	0	0	0	4	0	0	4	0	9
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	1	/	0	0	/	0	4	/	4	4	/	5	0
	BEGIN PEAK HR	7:30 AM												
	VOLUMES	0	0	0	0	0	0	0	3	0	0	2	0	5
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	PEAK HR FACTOR	0.000			0.000			0.375			0.500			0.417
	APP/DEPART	0	/	0	0	/	0	3	/	3	2	/	2	0
PM	04:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
	4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	1	0	0	1	0	0	0	0	2
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	100%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	1	/	1	1	/	1	0	/	0	0
	BEGIN PEAK HR	4:00 PM												
	VOLUMES	0	0	0	0	1	0	0	1	0	0	0	0	2
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR	0.000			0.250			0.250			0.000			0.500
	APP/DEPART	0	/	0	1	/	1	1	/	1	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
X	X	X	X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Bon View — NORTH SIDE

Edison WEST SIDE — EAST SIDE **Edison**

SOUTH SIDE — **Bon View**

INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 29, 22	LOCATION:	Ontario	PROJECT #: SC3761
	NORTH & SOUTH:	Grove	LOCATION #: 6
	EAST & WEST:	Schaefer	CONTROL: STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

	NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Schaefer)			WESTBOUND (Schaefer)			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
7:00 AM	7	60	1	4	38	5	3	8	2	3	33	5	169
7:15 AM	8	69	2	6	34	8	5	10	6	3	24	7	182
7:30 AM	7	67	3	5	41	7	7	12	8	2	30	8	197
7:45 AM	9	71	2	8	43	6	6	11	5	5	29	7	202
8:00 AM	5	63	1	5	42	9	6	12	3	14	27	8	195
8:15 AM	6	53	3	9	47	7	5	9	4	3	28	5	179
8:30 AM	5	61	3	6	59	10	6	10	3	2	18	5	188
8:45 AM	5	58	2	5	57	9	3	6	5	2	22	4	178
AM VOLUMES	52	502	17	48	361	61	41	78	36	34	211	49	1,490
AM APPROACH %	9%	88%	3%	10%	77%	13%	26%	50%	23%	12%	72%	17%	
AM APP/DEPART	571	/	592	470	/	431	155	/	143	294	/	324	0
BEGIN PEAK HR		7:15 AM											
AM PEAK HR VOLUMES	29	270	8	24	160	30	24	45	22	24	110	30	776
AM PEAK HR APPROACH %	9%	88%	3%	11%	75%	14%	26%	49%	24%	15%	67%	18%	
AM PEAK HR FACTOR		0.936			0.939			0.843			0.837		0.960
AM PEAK HR APP/DEPART	307	/	324	214	/	206	91	/	77	164	/	169	0
04:00 PM	6	51	7	8	33	3	14	37	16	0	10	7	192
4:15 PM	7	62	8	7	22	4	21	30	22	0	9	9	201
4:30 PM	6	94	3	8	31	7	24	29	19	1	6	10	238
4:45 PM	5	71	7	5	32	6	27	34	22	0	7	9	225
5:00 PM	3	59	5	8	27	8	25	22	26	1	9	7	200
5:15 PM	4	57	4	6	20	9	21	16	24	2	9	6	178
5:30 PM	4	67	4	5	45	8	19	18	21	1	8	7	207
5:45 PM	3	41	5	6	29	5	20	17	17	2	11	3	159
PM VOLUMES	38	502	43	53	239	50	171	203	167	7	69	58	1,600
PM APPROACH %	7%	86%	7%	15%	70%	15%	32%	38%	31%	5%	51%	43%	
PM APP/DEPART	583	/	731	342	/	413	541	/	299	134	/	157	0
BEGIN PEAK HR		4:15 PM											
PM PEAK HR VOLUMES	21	286	23	28	112	25	97	115	89	2	31	35	864
PM PEAK HR APPROACH %	6%	87%	7%	17%	68%	15%	32%	38%	30%	3%	46%	51%	
PM PEAK HR FACTOR		0.801			0.897			0.907			0.944		0.908
PM APP/DEPART	330	/	418	165	/	203	301	/	166	68	/	77	0

U-TURNS

	NB 0	SB 0	EB 0	WB 0	TTL
AM rows	0	0	0	0	0
AM TOTAL	0	0	0	0	0
PM rows	0	0	0	0	0
PM TOTAL	0	0	0	0	0

RTOR

	NRR X	SRR X	ERR X	WRR X
AM rows	0	0	0	0
AM TOTAL	0	0	0	0
AM PEAK HR VOLUMES	0	0	0	0
PM rows	0	0	0	0
PM TOTAL	0	0	0	0
PM PEAK HR VOLUMES	0	0	0	0

Grove

NORTH SIDE

Schaefer WEST SIDE — EAST SIDE **Schaefer**

SOUTH SIDE

Grove

ALL PED AND BIKE

	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
AM 7:00 AM	0	0	0	0	0
AM 7:15 AM	0	0	0	0	0
AM 7:30 AM	0	0	0	0	0
AM 7:45 AM	0	0	0	0	0
AM 8:00 AM	0	0	0	0	0
AM 8:15 AM	0	0	0	0	0
AM 8:30 AM	0	0	0	0	0
AM 8:45 AM	0	0	0	0	0
AM TOTAL	0	0	0	0	0
PM 4:00 PM	0	0	0	0	0
PM 4:15 PM	0	0	0	0	0
PM 4:30 PM	0	0	0	0	0
PM 4:45 PM	0	0	0	0	0
PM 5:00 PM	0	0	0	0	0
PM 5:15 PM	0	0	0	0	0
PM 5:30 PM	0	0	0	0	0
PM 5:45 PM	0	0	0	0	0
PM TOTAL	0	0	0	0	0

PEDESTRIAN CROSSINGS

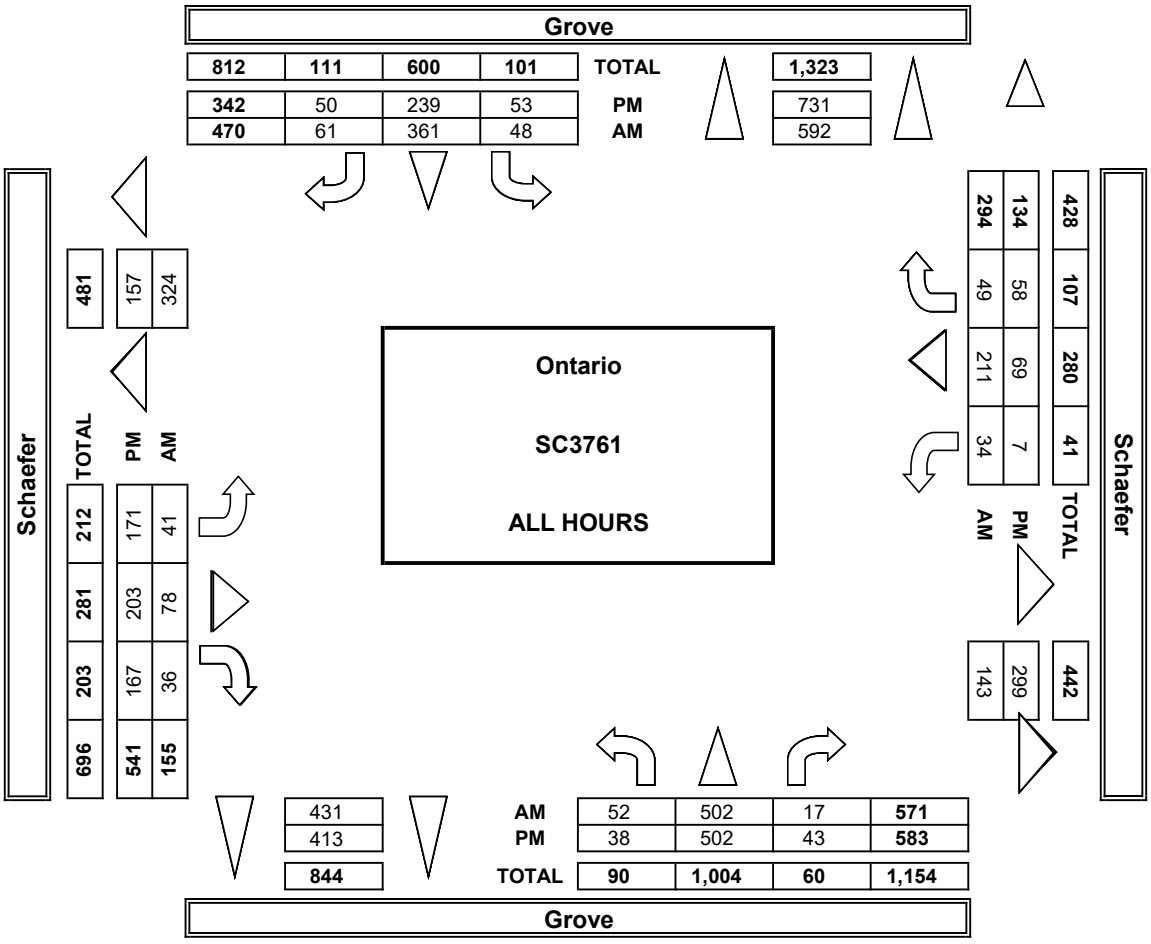
	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
AM 7:00 AM	0	0	0	0	0
AM 7:15 AM	0	0	0	0	0
AM 7:30 AM	0	0	0	0	0
AM 7:45 AM	0	0	0	0	0
AM 8:00 AM	0	0	0	0	0
AM 8:15 AM	0	0	0	0	0
AM 8:30 AM	0	0	0	0	0
AM 8:45 AM	0	0	0	0	0
AM TOTAL	0	0	0	0	0
PM 4:00 PM	0	0	0	0	0
PM 4:15 PM	0	0	0	0	0
PM 4:30 PM	0	0	0	0	0
PM 4:45 PM	0	0	0	0	0
PM 5:00 PM	0	0	0	0	0
PM 5:15 PM	0	0	0	0	0
PM 5:30 PM	0	0	0	0	0
PM 5:45 PM	0	0	0	0	0
PM TOTAL	0	0	0	0	0

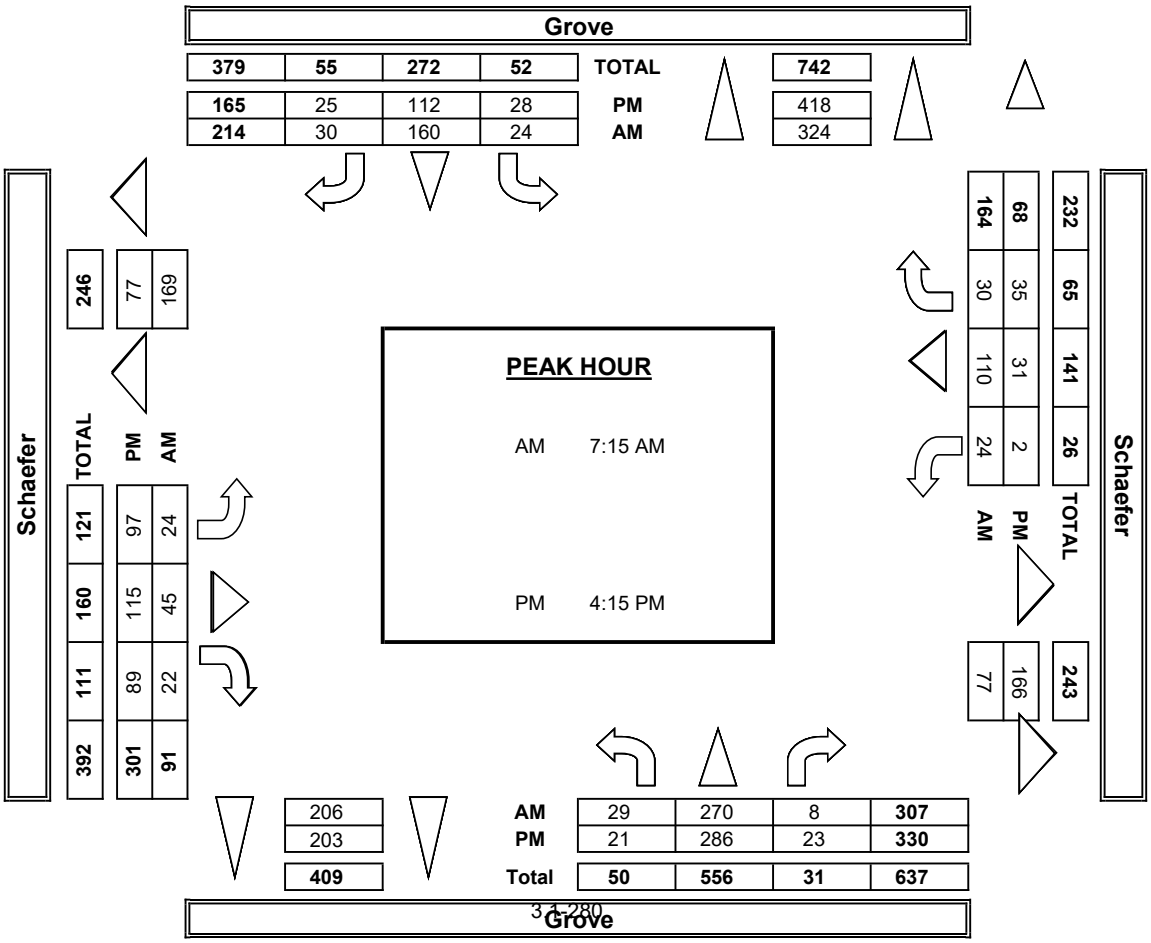
BICYCLE CROSSINGS

	ES	WS	SS	NS	TOTAL
AM 7:00 AM	0	0	0	0	0
AM 7:15 AM	0	0	0	0	0
AM 7:30 AM	0	0	0	0	0
AM 7:45 AM	0	0	0	0	0
AM 8:00 AM	0	0	0	0	0
AM 8:15 AM	0	0	0	0	0
AM 8:30 AM	0	0	0	0	0
AM 8:45 AM	0	0	0	0	0
AM TOTAL	0	0	0	0	0
PM 4:00 PM	0	0	0	0	0
PM 4:15 PM	0	0	0	0	0
PM 4:30 PM	0	0	0	0	0
PM 4:45 PM	0	0	0	0	0
PM 5:00 PM	0	0	0	0	0
PM 5:15 PM	0	0	0	0	0
PM 5:30 PM	0	0	0	0	0
PM 5:45 PM	0	0	0	0	0
PM TOTAL	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	6
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Schaefer)			WESTBOUND (Schaefer)			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
7:00 AM	7	49	0	4	27	2	3	4	0	1	13	0	110
7:15 AM	7	57	2	5	27	4	2	8	6	3	4	3	128
7:30 AM	5	61	2	5	31	3	4	5	7	0	12	4	139
7:45 AM	8	64	2	6	34	4	4	4	5	4	10	5	150
8:00 AM	4	57	1	4	36	8	3	4	3	10	10	4	144
8:15 AM	4	45	2	6	41	4	3	3	4	2	12	3	129
8:30 AM	4	50	1	4	45	6	4	6	2	2	6	3	133
8:45 AM	5	52	2	2	47	8	1	3	5	1	9	1	136
AM VOLUMES	44	435	12	36	288	39	24	37	32	23	76	23	1,069
AM APPROACH %	9%	89%	2%	10%	79%	11%	26%	40%	34%	19%	62%	19%	
AM APP/DEPART	491	/	482	363	/	343	93	/	85	122	/	159	0
BEGIN PEAK HR		7:15 AM											
VOLUMES	24	239	7	20	128	19	13	21	21	17	36	16	561
APPROACH %	9%	89%	3%	12%	77%	11%	24%	38%	38%	25%	52%	23%	
PEAK HR FACTOR		0.912			0.870			0.859			0.719		0.935
APP/DEPART	270	/	268	167	/	166	55	/	48	69	/	79	0
04:00 PM	6	46	6	1	27	2	12	27	15	0	7	4	153
4:15 PM	6	56	7	2	19	4	20	16	21	0	2	9	162
4:30 PM	6	88	2	4	28	6	22	20	19	1	3	7	206
4:45 PM	4	68	5	1	29	6	23	17	20	0	4	3	180
5:00 PM	3	54	4	2	26	6	24	15	25	1	6	5	171
5:15 PM	4	45	1	0	16	7	19	6	24	0	1	4	127
5:30 PM	4	62	2	1	41	6	14	15	19	1	3	3	171
5:45 PM	3	38	4	2	25	3	19	3	17	2	2	1	119
PM VOLUMES	36	457	31	13	211	40	153	119	160	5	28	36	1,289
PM APPROACH %	7%	87%	6%	5%	80%	15%	35%	28%	37%	7%	41%	52%	
PM APP/DEPART	524	/	646	264	/	376	432	/	163	69	/	104	0
BEGIN PEAK HR		4:15 PM											
VOLUMES	19	266	18	9	102	22	89	68	85	2	15	24	719
APPROACH %	6%	88%	6%	7%	77%	17%	37%	28%	35%	5%	37%	59%	
PEAK HR FACTOR		0.789			0.875			0.945			0.854		0.873
APP/DEPART	303	/	379	133	/	189	242	/	95	41	/	56	0

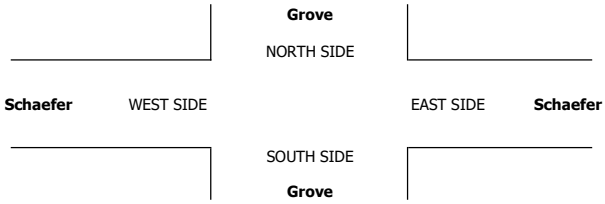
U-TURNS

	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
PM	0	0	0	0	0
TOTAL	0	0	0	0	0

RTOR

	NRR X	SRR X	ERR X	WRR X
AM	0	0	0	0
PM	0	0	0	0
TOTAL	0	0	0	0

BEGIN PEAK HR	0	0	0	0
PEAK HR FACTOR	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	6
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

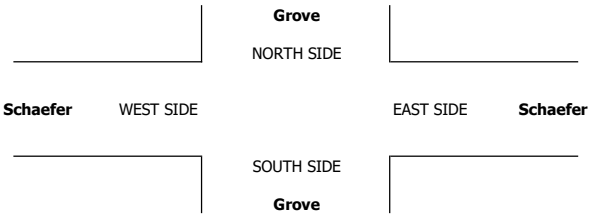
		NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Schaefer)			WESTBOUND (Schaefer)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	2	1	0	3	0	0	1	1	1	2	1	12
	7:15 AM	0	4	0	0	4	2	1	1	0	0	0	1	13
	7:30 AM	0	3	0	0	3	1	1	1	1	2	3	2	17
	7:45 AM	1	3	0	1	4	0	0	0	0	0	2	0	11
	8:00 AM	1	2	0	0	4	0	1	0	0	3	0	0	11
	8:15 AM	0	5	1	1	2	0	1	1	0	1	2	1	15
	8:30 AM	0	7	1	1	4	1	0	0	1	0	2	1	18
	8:45 AM	0	4	0	0	4	0	0	1	0	0	1	1	11
	VOLUMES	2	30	3	3	28	4	4	5	3	7	12	7	108
	APPROACH %	6%	86%	9%	9%	80%	11%	33%	42%	25%	27%	46%	27%	
	APP/DEPART	35	/	41	35	/	38	12	/	11	26	/	18	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	2	12	0	1	15	3	3	2	1	5	5	3	52
	APPROACH %	14%	86%	0%	5%	79%	16%	50%	33%	17%	38%	38%	23%	
	PEAK HR FACTOR		0.875			0.792			0.500			0.464		0.765
	APP/DEPART	14	/	18	19	/	21	6	/	3	13	/	10	0
PM	04:00 PM	0	1	1	3	3	0	1	2	1	0	0	2	14
	4:15 PM	1	4	0	2	1	0	0	0	1	0	1	0	10
	4:30 PM	0	2	0	1	3	1	1	0	0	0	1	2	11
	4:45 PM	1	1	1	2	2	0	1	4	2	0	0	4	18
	5:00 PM	0	3	0	2	0	0	0	1	1	0	0	1	8
	5:15 PM	0	8	2	1	2	1	1	1	0	1	0	1	18
	5:30 PM	0	2	1	0	1	0	1	1	0	0	1	2	9
	5:45 PM	0	2	1	1	2	0	0	1	0	0	1	2	10
	VOLUMES	2	23	6	12	14	2	5	10	5	1	4	14	98
	APPROACH %	6%	74%	19%	43%	50%	7%	25%	50%	25%	5%	21%	74%	
	APP/DEPART	31	/	42	28	/	20	20	/	28	19	/	8	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	2	10	1	7	6	1	2	5	4	0	2	7	47
	APPROACH %	15%	77%	8%	50%	43%	7%	18%	45%	36%	0%	22%	78%	
	PEAK HR FACTOR		0.650			0.700			0.393			0.563		0.653
	APP/DEPART	13	/	19	14	/	10	11	/	13	9	/	5	0

U-TURNS

	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
PM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

RTOR

	NRR X	SRR X	ERR X	WRR X
AM	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
PM	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	6
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 3: 3-AXLE TRUCKS

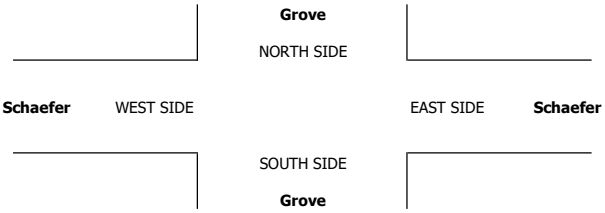
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Schaefer)			WESTBOUND (Schaefer)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	4	0	0	4	1	0	2	0	1	2	0	14
	7:15 AM	0	4	0	0	0	1	1	0	0	0	1	0	7
	7:30 AM	0	1	1	0	1	0	0	4	0	0	2	0	9
	7:45 AM	0	3	0	0	1	0	0	5	0	1	3	0	13
	8:00 AM	0	2	0	0	0	0	1	2	0	0	3	1	9
	8:15 AM	0	2	0	0	0	1	0	0	0	0	5	1	9
	8:30 AM	0	1	1	0	5	1	0	1	0	0	2	0	11
	8:45 AM	0	2	0	2	3	0	2	1	0	0	4	0	14
	VOLUMES	0	19	2	2	14	4	4	15	0	2	22	2	86
	APPROACH %	0%	90%	10%	10%	70%	20%	21%	79%	0%	8%	85%	8%	
	APP/DEPART	21	/	25	20	/	16	19	/	19	26	/	26	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	10	1	0	2	1	2	11	0	1	9	1	38
	APPROACH %	0%	91%	9%	0%	67%	33%	15%	85%	0%	9%	82%	9%	
	PEAK HR FACTOR		0.688			0.750			0.650			0.688		0.731
	APP/DEPART	11	/	13	3	/	3	13	/	12	11	/	10	0
PM	04:00 PM	0	3	0	2	2	0	0	1	0	0	0	1	9
	4:15 PM	0	1	0	0	2	0	0	3	0	0	3	0	9
	4:30 PM	0	1	0	0	0	0	1	3	0	0	1	0	6
	4:45 PM	0	1	0	0	1	0	1	2	0	0	1	1	7
	5:00 PM	0	0	1	0	1	0	0	2	0	0	1	1	6
	5:15 PM	0	0	1	0	0	0	0	2	0	0	0	0	3
	5:30 PM	0	1	0	0	1	0	1	1	0	0	1	1	6
	5:45 PM	0	1	0	0	1	1	1	1	0	0	0	0	5
	VOLUMES	0	8	2	2	8	1	4	15	0	0	7	4	51
	APPROACH %	0%	80%	20%	18%	73%	9%	21%	79%	0%	0%	64%	36%	
	APP/DEPART	10	/	16	11	/	8	19	/	19	11	/	8	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	3	1	0	4	0	2	10	0	0	6	2	28
	APPROACH %	0%	75%	25%	0%	100%	0%	17%	83%	0%	0%	75%	25%	
	PEAK HR FACTOR		1.000			0.500			0.750			0.667		0.778
	APP/DEPART	4	/	7	4	/	4	12	/	11	8	/	6	0

U-TURNS					
	NB	SB	EB	WB	TTL
AM 7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
	0	0	0	0	0
PM 04:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
	0	0	0	0	0

RTOR				
	NRR X	SRR X	ERR X	WRR X
AM 7:00 AM	0	0	0	0
7:15 AM	0	0	0	0
7:30 AM	0	0	0	0
7:45 AM	0	0	0	0
8:00 AM	0	0	0	0
8:15 AM	0	0	0	0
8:30 AM	0	0	0	0
8:45 AM	0	0	0	0
	0	0	0	0
	0	0	0	0
PM 04:00 PM	0	0	0	0
4:15 PM	0	0	0	0
4:30 PM	0	0	0	0
4:45 PM	0	0	0	0
5:00 PM	0	0	0	0
5:15 PM	0	0	0	0
5:30 PM	0	0	0	0
5:45 PM	0	0	0	0
	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	6
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER

▲ N ◄ W E ► S ▼

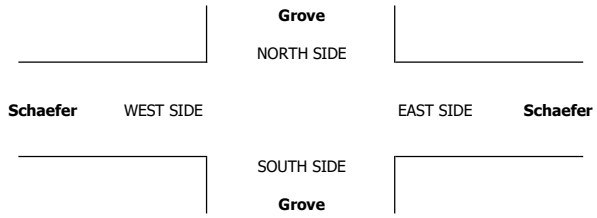
		NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Schaefer)			WESTBOUND (Schaefer)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	4	0	0	4	2	0	0	1	0	16	4	31
	7:15 AM	1	3	0	1	3	1	1	1	0	0	19	3	33
	7:30 AM	2	2	0	0	5	3	2	2	0	0	13	2	31
	7:45 AM	0	1	0	1	3	2	2	2	0	0	13	2	26
	8:00 AM	0	2	0	1	2	1	0	6	0	1	14	3	30
	8:15 AM	2	1	0	2	4	2	1	5	0	0	9	0	26
	8:30 AM	1	3	0	1	5	2	2	3	0	0	8	1	26
	8:45 AM	0	0	0	1	3	1	0	1	0	1	8	2	17
	VOLUMES	6	16	0	7	29	14	8	20	1	2	100	17	220
	APPROACH %	27%	73%	0%	14%	58%	28%	28%	69%	3%	2%	84%	14%	
	APP/DEPART	22	/	41	50	/	32	29	/	27	119	/	120	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	3	8	0	3	13	7	5	11	0	1	59	10	120
	APPROACH %	27%	73%	0%	13%	57%	30%	31%	69%	0%	1%	84%	14%	
	PEAK HR FACTOR		0.688			0.719			0.667			0.795		0.909
	APP/DEPART	11	/	23	23	/	14	16	/	14	70	/	69	0
PM	04:00 PM	0	1	0	2	1	1	1	7	0	0	3	0	16
	4:15 PM	0	1	1	3	0	0	1	11	0	0	3	0	20
	4:30 PM	0	3	1	3	0	0	0	6	0	0	1	1	15
	4:45 PM	0	1	1	2	0	0	2	11	0	0	2	1	20
	5:00 PM	0	2	0	4	0	2	1	4	0	0	2	0	15
	5:15 PM	0	4	0	5	2	1	1	7	0	1	8	1	30
	5:30 PM	0	2	1	4	2	2	3	1	2	0	3	1	21
	5:45 PM	0	0	0	3	1	1	0	12	0	0	8	0	25
	VOLUMES	0	14	4	26	6	7	9	59	2	1	30	4	162
	APPROACH %	0%	78%	22%	67%	15%	18%	13%	84%	3%	3%	86%	11%	
	APP/DEPART	18	/	27	39	/	9	70	/	89	35	/	37	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	7	3	12	0	2	4	32	0	0	8	2	70
	APPROACH %	0%	70%	30%	86%	0%	14%	11%	89%	0%	0%	80%	20%	
	PEAK HR FACTOR		0.625			0.583			0.692			0.833		0.875
	APP/DEPART	10	/	13	14	/	0	36	/	47	10	/	10	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	6
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

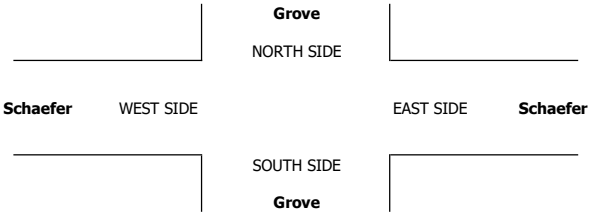
		NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Schaefer)			WESTBOUND (Schaefer)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	6
TUESDAY	EAST & WEST:	Schaefer	CONTROL:	STOP ALL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

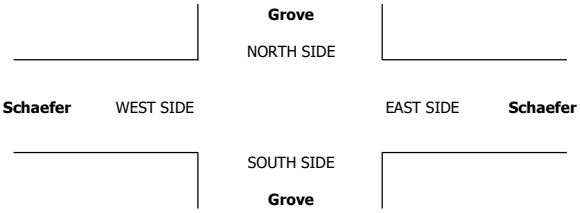
		NORTHBOUND Grove			SOUTHBOUND Grove			EASTBOUND Schaefer			WESTBOUND Schaefer			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	1	0	0	0	0	0	1	0	0	0	0	2
	7:15 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
	7:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	7:45 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
	8:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	1
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	2	0	0	2	0	1	1	0	0	1	0	7
	APPROACH %	0%	100%	0%	0%	100%	0%	50%	50%	0%	0%	100%	0%	
	APP/DEPART	2	/	3	2	/	2	2	/	1	1	/	1	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	1	0	0	2	0	1	0	0	0	1	0	5
	APPROACH %	0%	100%	0%	0%	100%	0%	100%	0%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.250			0.500			0.250			0.250		0.625
	APP/DEPART	1	/	2	2	/	2	1	/	0	1	/	1	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 29, 22	LOCATION:	Ontario	PROJECT #: SC3761
	NORTH & SOUTH:	Grove	LOCATION #: 7
	EAST & WEST:	Edison	CONTROL: STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

	NORTHBOUND Grove			SOUTHBOUND Grove			EASTBOUND Edison			WESTBOUND Ontario Ranch			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
7:00 AM	0	58	0	7	32	4	3	26	3	9	68	7	217
7:15 AM	3	66	1	6	31	2	8	23	2	4	76	8	230
7:30 AM	5	61	2	7	42	2	9	25	1	5	96	7	262
7:45 AM	6	57	0	4	43	6	12	38	6	5	93	13	283
8:00 AM	9	50	2	10	41	6	10	40	2	3	66	11	250
8:15 AM	7	46	2	5	38	5	7	36	3	6	87	9	251
8:30 AM	3	47	1	11	44	9	10	39	2	9	89	15	279
8:45 AM	4	44	2	4	56	4	8	30	6	6	64	15	243
AM VOLUMES	37	429	10	54	327	38	67	257	25	47	639	85	2,015
AM APPROACH %	8%	90%	2%	13%	78%	9%	19%	74%	7%	6%	83%	11%	
AM APP/DEPART	476	/	581	419	/	399	349	/	321	771	/	714	0
BEGIN PEAK HR		7:45 AM											
PEAK HR VOLUMES	25	200	5	30	166	26	39	153	13	23	335	48	1,063
PEAK HR APPROACH %	11%	87%	2%	14%	75%	12%	19%	75%	6%	6%	83%	12%	
PEAK HR FACTOR		0.913			0.867			0.915			0.898		0.939
PEAK HR APP/DEPART	230	/	287	222	/	202	205	/	188	406	/	386	0
04:00 PM	1	48	9	14	31	6	9	88	4	4	42	5	261
4:15 PM	1	54	16	10	29	5	13	105	0	0	43	6	282
4:30 PM	3	84	17	10	37	4	12	98	0	1	42	7	315
4:45 PM	1	68	7	9	42	6	10	109	5	1	44	5	307
5:00 PM	2	56	5	14	36	4	7	92	2	1	31	2	252
5:15 PM	1	51	6	11	34	1	8	95	0	0	53	6	266
5:30 PM	3	63	10	13	54	4	2	97	4	4	40	10	304
5:45 PM	0	37	9	7	35	6	3	112	4	6	30	4	253
PM VOLUMES	12	461	79	88	298	36	64	796	19	17	325	45	2,240
PM APPROACH %	2%	84%	14%	21%	71%	9%	7%	91%	2%	4%	84%	12%	
PM APP/DEPART	552	/	570	422	/	334	879	/	963	387	/	373	0
BEGIN PEAK HR		4:00 PM											
PEAK HR VOLUMES	6	254	49	43	139	21	44	400	9	6	171	23	1,165
PEAK HR APPROACH %	2%	82%	16%	21%	68%	10%	10%	88%	2%	3%	86%	12%	
PEAK HR FACTOR		0.743			0.890			0.913			0.980		0.925
PEAK HR APP/DEPART	309	/	321	203	/	154	453	/	492	200	/	198	0

U-TURNS

NB 0	SB 0	EB 0	WB 0	TTL
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0

Grove

NORTH SIDE

Edison WEST SIDE EAST SIDE **Edison**

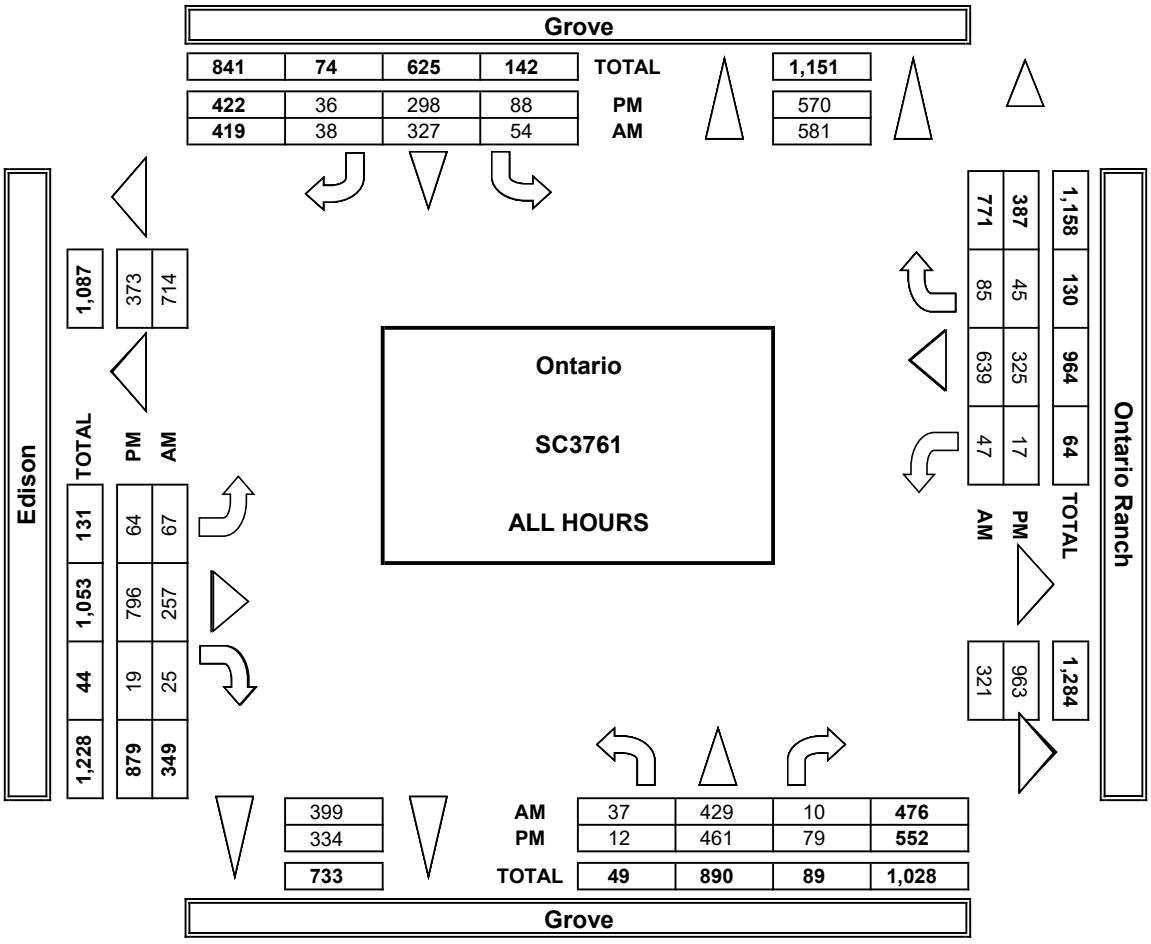
SOUTH SIDE

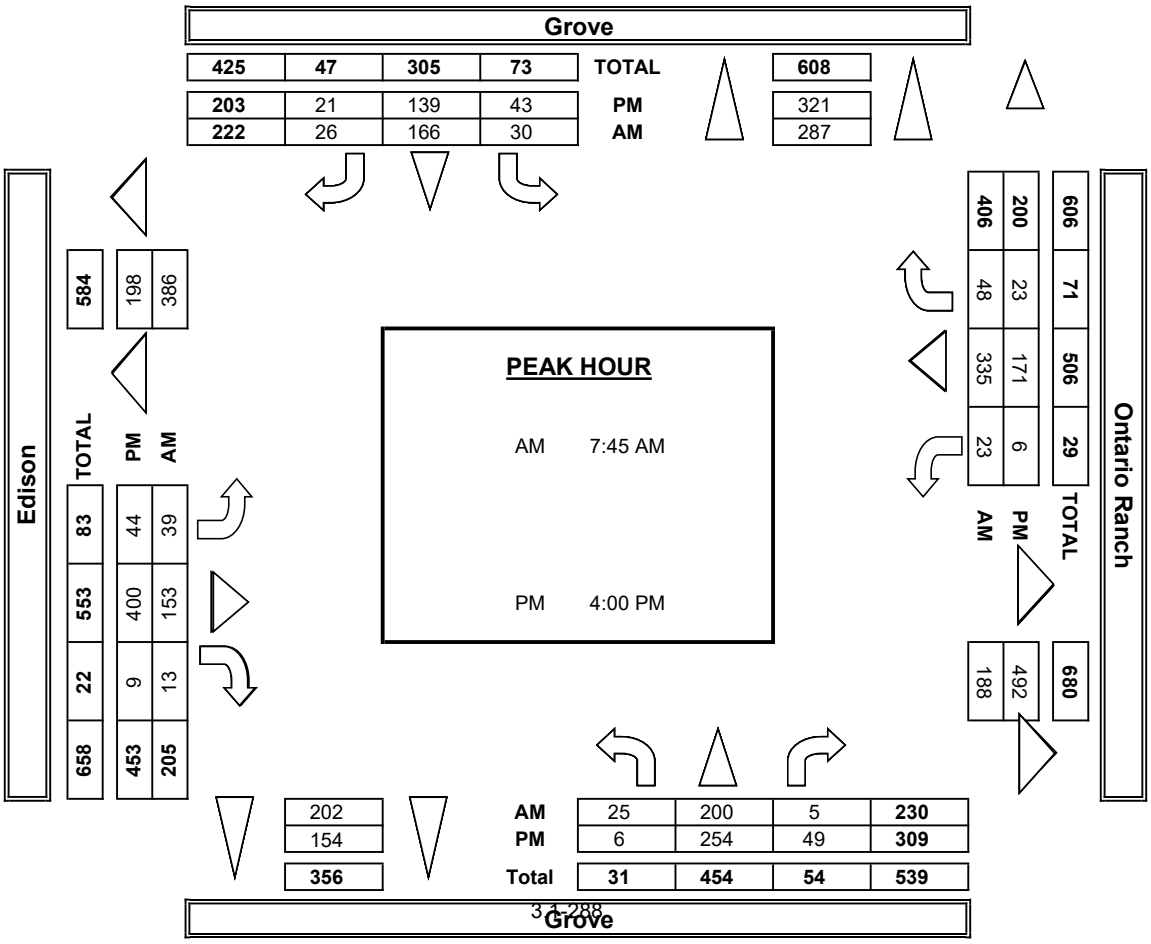
Grove

	ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	7
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

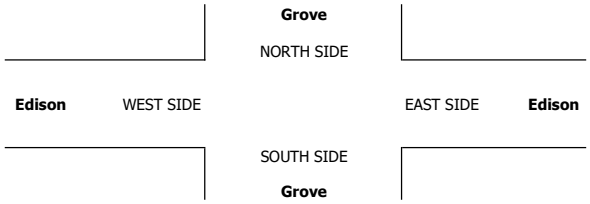
	NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Edison)			WESTBOUND (Edison)			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
7:00 AM	0	51	0	4	24	0	0	15	2	7	62	4	169
7:15 AM	3	60	1	4	29	2	4	15	2	4	61	5	190
7:30 AM	5	57	2	2	35	1	5	19	1	5	76	6	214
7:45 AM	4	53	0	3	36	4	10	23	3	4	81	10	231
8:00 AM	6	48	1	9	35	4	6	31	2	3	57	9	211
8:15 AM	4	39	2	4	32	5	4	24	2	5	78	7	206
8:30 AM	1	38	1	5	39	5	7	30	2	7	77	13	225
8:45 AM	2	40	2	3	46	4	8	20	6	6	57	13	207
AM VOLUMES	25	386	9	34	276	25	44	177	20	41	549	67	1,653
AM APPROACH %	6%	92%	2%	10%	82%	7%	18%	73%	8%	6%	84%	10%	
AM APP/DEPART	420	/	497	335	/	337	241	/	220	657	/	599	0
BEGIN PEAK HR		7:45 AM											
VOLUMES	15	178	4	21	142	18	27	108	9	19	293	39	873
APPROACH %	8%	90%	2%	12%	78%	10%	19%	75%	6%	5%	83%	11%	
PEAK HR FACTOR		0.864			0.923			0.923			0.905		0.945
APP/DEPART	197	/	244	181	/	170	144	/	133	351	/	326	0
04:00 PM	1	45	8	10	30	3	9	73	3	2	41	3	228
4:15 PM	1	50	13	7	28	5	12	87	0	0	37	4	244
4:30 PM	3	80	14	10	34	4	11	83	0	1	37	5	282
4:45 PM	1	64	7	9	37	6	10	100	3	1	36	4	278
5:00 PM	2	53	5	14	35	3	6	81	1	1	28	2	231
5:15 PM	1	44	6	9	30	1	3	86	0	0	50	4	234
5:30 PM	3	60	10	9	52	3	2	87	3	4	34	6	273
5:45 PM	0	35	8	7	31	6	3	109	4	6	24	2	235
PM VOLUMES	12	431	71	75	277	31	56	706	14	15	287	30	2,005
PM APPROACH %	2%	84%	14%	20%	72%	8%	7%	91%	2%	5%	86%	9%	
PM APP/DEPART	514	/	517	383	/	306	776	/	852	332	/	330	0
BEGIN PEAK HR		4:00 PM											
VOLUMES	6	239	42	36	129	18	42	343	6	4	151	16	1,032
APPROACH %	2%	83%	15%	20%	70%	10%	11%	88%	2%	2%	88%	9%	
PEAK HR FACTOR		0.740			0.880			0.865			0.929		0.915
APP/DEPART	287	/	297	183	/	139	391	/	421	171	/	175	0

U-TURNS

	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
PM	0	0	0	0	0
AM PEAK HR					0
PM PEAK HR					0

RTOR

	NRR X	SRR X	ERR X	WRR X
AM	0	0	0	0
PM	0	0	0	0
AM PEAK HR	0	0	0	0
PM PEAK HR	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	7
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

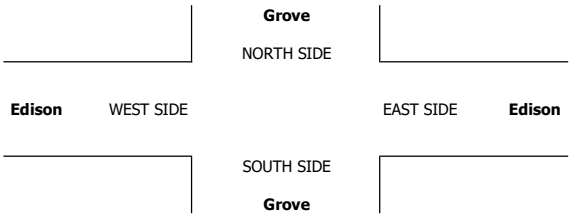
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Edison)			WESTBOUND (Edison)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	5	0	1	4	0	0	2	2	14
	7:15 AM	0	3	0	1	1	0	0	4	0	0	4	1	14
	7:30 AM	0	2	0	1	5	0	1	1	0	0	5	1	16
	7:45 AM	1	2	0	0	4	0	2	6	0	0	5	1	21
	8:00 AM	1	2	0	1	5	1	0	2	0	0	2	1	15
	8:15 AM	2	6	0	0	3	0	1	2	1	0	2	0	17
	8:30 AM	1	6	0	3	1	1	0	2	0	1	4	2	21
	8:45 AM	2	4	0	0	4	0	0	0	0	0	0	0	10
	VOLUMES	7	25	0	6	28	2	5	21	1	1	24	8	128
	APPROACH %	22%	78%	0%	17%	78%	6%	19%	78%	4%	3%	73%	24%	
	APP/DEPART	32	/	38	36	/	30	27	/	27	33	/	33	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	5	16	0	4	13	2	3	12	1	1	13	4	74
	APPROACH %	24%	76%	0%	21%	68%	11%	19%	75%	6%	6%	72%	22%	
	PEAK HR FACTOR		0.656			0.679			0.500			0.643		0.881
	APP/DEPART	21	/	23	19	/	15	16	/	16	18	/	20	0
PM	04:00 PM	0	2	1	3	0	2	0	7	0	0	0	0	15
	4:15 PM	0	4	2	1	1	0	0	8	0	0	2	1	19
	4:30 PM	0	2	3	0	3	0	0	4	0	0	1	0	13
	4:45 PM	0	2	0	0	4	0	0	2	1	0	3	0	12
	5:00 PM	0	2	0	0	0	1	1	7	1	0	1	0	13
	5:15 PM	0	6	0	1	2	0	4	4	0	0	1	0	18
	5:30 PM	0	2	0	0	1	0	0	3	0	0	1	1	8
	5:45 PM	0	2	0	0	2	0	0	0	0	0	2	0	6
	VOLUMES	0	22	6	5	13	3	5	35	2	0	11	2	104
	APPROACH %	0%	79%	21%	24%	62%	14%	12%	83%	5%	0%	85%	15%	
	APP/DEPART	28	/	29	21	/	15	42	/	46	13	/	14	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	10	6	4	8	2	0	21	1	0	6	1	59
	APPROACH %	0%	63%	38%	29%	57%	14%	0%	95%	5%	0%	86%	14%	
	PEAK HR FACTOR		0.667			0.700			0.688			0.583		0.776
	APP/DEPART	16	/	11	14	/	9	22	/	31	7	/	8	0

U-TURNS					
	NB	SB	EB	WB	TTL
AM 7:00 AM	0	0	0	0	0
AM 7:15 AM	0	0	0	0	0
AM 7:30 AM	0	0	0	0	0
AM 7:45 AM	0	0	0	0	0
AM 8:00 AM	0	0	0	0	0
AM 8:15 AM	0	0	0	0	0
AM 8:30 AM	0	0	0	0	0
AM 8:45 AM	0	0	0	0	0
AM TOTAL	0	0	0	0	0
PM 04:00 PM	0	0	0	0	0
PM 4:15 PM	0	0	0	0	0
PM 4:30 PM	0	0	0	0	0
PM 4:45 PM	0	0	0	0	0
PM 5:00 PM	0	0	0	0	0
PM 5:15 PM	0	0	0	0	0
PM 5:30 PM	0	0	0	0	0
PM 5:45 PM	0	0	0	0	0
PM TOTAL	0	0	0	0	0

RTOR				
	NRR X	SRR X	ERR X	WRR X
AM 7:00 AM	0	0	0	0
AM 7:15 AM	0	0	0	0
AM 7:30 AM	0	0	0	0
AM 7:45 AM	0	0	0	0
AM 8:00 AM	0	0	0	0
AM 8:15 AM	0	0	0	0
AM 8:30 AM	0	0	0	0
AM 8:45 AM	0	0	0	0
AM TOTAL	0	0	0	0
AM PEAK HR	0	0	0	0
PM 04:00 PM	0	0	0	0
PM 4:15 PM	0	0	0	0
PM 4:30 PM	0	0	0	0
PM 4:45 PM	0	0	0	0
PM 5:00 PM	0	0	0	0
PM 5:15 PM	0	0	0	0
PM 5:30 PM	0	0	0	0
PM 5:45 PM	0	0	0	0
PM TOTAL	0	0	0	0
PM PEAK HR	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	7
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

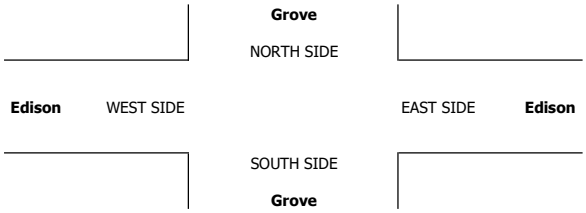
		NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Edison)			WESTBOUND (Edison)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	4	0	1	3	1	0	2	1	1	1	0	14
	7:15 AM	0	1	0	0	0	0	3	3	0	0	1	0	8
	7:30 AM	0	1	0	0	1	0	0	0	0	0	6	0	8
	7:45 AM	1	2	0	0	1	1	0	1	0	1	0	1	8
	8:00 AM	0	0	1	0	0	0	2	1	0	0	3	0	7
	8:15 AM	0	0	0	0	0	0	2	1	0	0	2	0	5
	8:30 AM	1	2	0	2	3	0	0	3	0	0	3	0	14
	8:45 AM	0	0	0	0	4	0	0	2	0	0	2	2	10
	VOLUMES	2	10	1	3	12	2	7	13	1	2	18	3	74
	APPROACH %	15%	77%	8%	18%	71%	12%	33%	62%	5%	9%	78%	13%	
	APP/DEPART	13	/	20	17	/	15	21	/	17	23	/	22	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	2	4	1	2	4	1	4	6	0	1	8	1	34
	APPROACH %	29%	57%	14%	29%	57%	14%	40%	60%	0%	10%	80%	10%	
	PEAK HR FACTOR		0.583			0.350			0.833			0.833		0.607
	APP/DEPART	7	/	9	7	/	5	10	/	9	10	/	11	0
PM	04:00 PM	0	1	0	1	1	0	0	1	0	1	1	2	8
	4:15 PM	0	0	1	2	0	0	0	1	0	0	1	0	5
	4:30 PM	0	1	0	0	0	0	0	2	0	0	2	0	5
	4:45 PM	0	0	0	0	1	0	0	0	0	0	2	1	4
	5:00 PM	0	0	0	0	1	0	0	1	0	0	1	0	3
	5:15 PM	0	0	0	0	0	0	0	1	0	0	1	0	2
	5:30 PM	0	1	0	0	0	1	0	0	0	0	1	0	3
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	2	2
	VOLUMES	0	3	1	3	3	1	0	6	0	1	9	5	32
	APPROACH %	0%	75%	25%	43%	43%	14%	0%	100%	0%	7%	60%	33%	
	APP/DEPART	4	/	8	7	/	4	6	/	10	15	/	10	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	2	1	3	2	0	0	4	0	1	6	3	22
	APPROACH %	0%	67%	33%	60%	40%	0%	0%	100%	0%	10%	60%	30%	
	PEAK HR FACTOR		0.750			0.625			0.500			0.625		0.688
	APP/DEPART	3	/	5	5	/	3	4	/	8	10	/	6	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	7
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

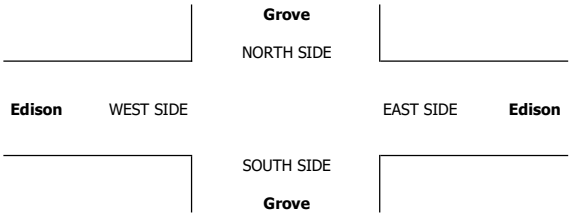
	NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Edison)			WESTBOUND (Edison)			
LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
7:00 AM	0	2	0	2	0	3	2	5	0	1	3	1	19
7:15 AM	0	2	0	1	1	0	0	1	0	0	9	2	16
7:30 AM	0	1	0	4	0	1	3	5	0	0	9	0	23
7:45 AM	0	0	0	1	1	1	0	7	2	0	6	1	19
8:00 AM	2	0	0	0	1	1	2	5	0	0	3	1	15
8:15 AM	1	1	0	1	3	0	0	9	0	1	4	2	22
8:30 AM	0	1	0	1	1	3	3	4	0	1	5	0	19
8:45 AM	0	0	0	1	2	0	0	8	0	0	5	0	16
AM VOLUMES	3	7	0	11	9	9	10	44	2	3	44	7	149
AM APPROACH %	30%	70%	0%	38%	31%	31%	18%	79%	4%	6%	81%	13%	
AM APP/DEPART	10	/	24	29	/	14	56	/	55	54	/	56	0
BEGIN PEAK HR		7:45 AM											
AM VOLUMES	3	2	0	3	6	5	5	25	2	2	18	4	75
AM APPROACH %	60%	40%	0%	21%	43%	36%	16%	78%	6%	8%	75%	17%	
AM PEAK HR FACTOR		0.625			0.700			0.889			0.857		0.852
AM APP/DEPART	5	/	11	14	/	10	32	/	28	24	/	26	0
04:00 PM	0	0	0	0	0	1	0	7	1	0	0	0	9
4:15 PM	0	0	0	0	0	0	1	8	0	0	3	1	13
4:30 PM	0	1	0	0	0	0	1	9	0	0	2	2	15
4:45 PM	0	2	0	0	0	0	0	6	1	0	3	0	12
5:00 PM	0	1	0	0	0	0	0	3	0	0	1	0	5
5:15 PM	0	1	0	1	2	0	1	4	0	0	1	2	12
5:30 PM	0	0	0	4	1	0	0	7	1	0	3	3	19
5:45 PM	0	0	1	0	2	0	0	3	0	0	4	0	10
PM VOLUMES	0	5	1	5	5	1	3	47	3	0	17	8	95
PM APPROACH %	0%	83%	17%	45%	45%	9%	6%	89%	6%	0%	68%	32%	
PM APP/DEPART	6	/	16	11	/	8	53	/	53	25	/	18	0
BEGIN PEAK HR		4:00 PM											
PM VOLUMES	0	3	0	0	0	1	2	30	2	0	8	3	49
PM APPROACH %	0%	100%	0%	0%	0%	100%	6%	88%	6%	0%	73%	27%	
PM PEAK HR FACTOR		0.375			0.250			0.850			0.688		0.817
PM APP/DEPART	3	/	8	1	/	2	34	/	30	11	/	9	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
X	X	X	X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	7
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

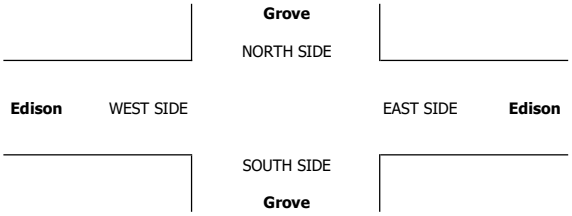
		NORTHBOUND (Grove)			SOUTHBOUND (Grove)			EASTBOUND (Edison)			WESTBOUND (Edison)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	1	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.250			0.000		0.250
	APP/DEPART	0	/	0	0	/	0	1	/	1	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Grove	LOCATION #:	7
TUESDAY	EAST & WEST:	Edison	CONTROL:	STOP ALL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

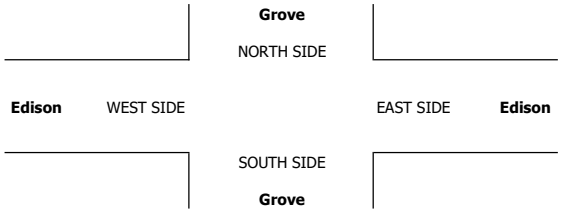
		NORTHBOUND Grove			SOUTHBOUND Grove			EASTBOUND Edison			WESTBOUND Edison			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	1	0	0	0	0	0	0	0	0	0	0	1
	7:15 AM	0	0	0	0	0	0	1	0	0	0	1	0	2
	7:30 AM	0	0	0	0	1	0	0	0	0	0	0	0	1
	7:45 AM	0	0	0	0	1	0	0	1	1	0	1	0	4
	8:00 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	8:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	2	0	1	2	1	0	4	0	11
	APPROACH %	0%	100%	0%	0%	100%	0%	25%	50%	25%	0%	100%	0%	
	APP/DEPART	1	/	2	2	/	3	4	/	2	4	/	4	0
	BEGIN PEAK HR		7:45 AM											
	VOLUMES	0	0	0	0	1	0	0	2	1	0	3	0	7
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	67%	33%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.250			0.375			0.750		0.438
	APP/DEPART	0	/	0	1	/	2	3	/	2	3	/	3	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	1	0	0	1
	4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	1	0	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	100%	0%	0%	
	APP/DEPART	0	/	0	0	/	1	1	/	1	1	/	0	0
	BEGIN PEAK HR		4:00 PM											
	VOLUMES	0	0	0	0	0	0	0	1	0	1	0	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	100%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.250			0.250		0.500
	APP/DEPART	0	/	0	0	/	1	1	/	1	1	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
X	X	X	X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, Nov 29, 22	LOCATION:	Ontario	PROJECT #: SC3761
	NORTH & SOUTH:	Walker	LOCATION #: 8
	EAST & WEST:	Ontario Ranch	CONTROL: STOP ALL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND (Walker)			SOUTHBOUND (Walker)			EASTBOUND (Ontario Ranch)			WESTBOUND (Ontario Ranch)				U-TURNS					RTOR			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL	NB 0	SB 0	EB 0	WB 0	TTL	NRR X	SRR X	ERR X	WRR X
AM	7:00 AM	3	8	1	11	7	2	6	36	1	8	69	12	164	0	0	0	0	0	0	0	0	0
AM	7:15 AM	1	13	2	7	9	7	2	28	2	6	91	19	187	0	0	0	0	0	0	0	0	0
AM	7:30 AM	1	14	5	10	10	8	2	28	0	16	107	16	217	0	0	0	0	0	0	0	0	0
AM	7:45 AM	0	15	6	10	10	6	7	38	0	11	95	25	223	0	0	0	0	0	0	0	0	0
AM	8:00 AM	3	16	8	8	9	2	4	47	0	14	81	12	204	0	0	0	0	0	0	0	0	0
AM	8:15 AM	2	16	4	6	14	5	3	38	1	7	101	18	215	0	0	0	0	0	0	0	0	0
AM	8:30 AM	0	8	2	10	16	5	3	45	0	3	104	10	206	0	0	0	0	0	0	0	0	0
AM	8:45 AM	2	6	7	11	6	2	4	36	1	5	61	13	154	0	0	0	0	0	0	0	0	0
AM	VOLUMES	12	96	35	73	81	37	31	296	5	70	709	125	1,570	0	0	0	0	0	0	0	0	0
AM	APPROACH %	8%	67%	24%	38%	42%	19%	9%	89%	2%	8%	78%	14%										
AM	APP/DEPART	143	/	252	191	/	156	332	/	404	904	/	758	0									
AM	BEGIN PEAK HR		7:30 AM																				
AM	VOLUMES	6	61	23	34	43	21	16	151	1	48	384	71	859						0	0	0	0
AM	APPROACH %	7%	68%	26%	35%	44%	21%	10%	90%	1%	10%	76%	14%										
AM	PEAK HR FACTOR		0.833			0.875			0.824			0.905		0.963									
AM	APP/DEPART	90	/	148	98	/	92	168	/	208	503	/	411	0									
PM	04:00 PM	2	16	21	18	18	2	8	101	3	6	48	6	249	0	0	0	0	0	0	0	0	0
PM	4:15 PM	0	24	31	23	10	2	2	122	1	2	46	8	271	0	0	0	0	0	0	0	0	0
PM	4:30 PM	0	16	30	39	11	4	4	124	1	1	56	17	303	0	0	0	0	0	0	0	0	0
PM	4:45 PM	0	20	37	38	10	1	2	125	0	3	38	7	281	0	0	0	0	0	0	0	0	0
PM	5:00 PM	1	23	21	38	8	5	4	108	1	0	39	7	255	0	0	0	0	0	0	0	0	0
PM	5:15 PM	0	8	18	29	10	5	2	114	1	2	57	8	254	0	0	0	0	0	0	0	0	0
PM	5:30 PM	0	8	19	26	3	2	0	122	0	3	43	6	232	0	0	0	0	0	0	0	0	0
PM	5:45 PM	1	12	10	26	2	2	4	126	1	7	46	10	247	0	0	0	0	0	0	0	0	0
PM	VOLUMES	4	127	187	237	72	23	26	942	8	24	373	69	2,092	0	0	0	0	0	0	0	0	0
PM	APPROACH %	1%	40%	59%	71%	22%	7%	3%	97%	1%	5%	80%	15%										
PM	APP/DEPART	318	/	222	332	/	104	976	/	1,366	466	/	400	0									
PM	BEGIN PEAK HR		4:15 PM																				
PM	VOLUMES	1	83	119	138	39	12	12	479	3	6	179	39	1,110						0	0	0	0
PM	APPROACH %	0%	41%	59%	73%	21%	6%	2%	97%	1%	3%	80%	17%										
PM	PEAK HR FACTOR		0.890			0.875			0.957			0.757		0.916									
PM	APP/DEPART	203	/	134	189	/	48	494	/	736	224	/	192	0									

Walker

NORTH SIDE

Ontario Ranch WEST SIDE EAST SIDE **Ontario Ranch**

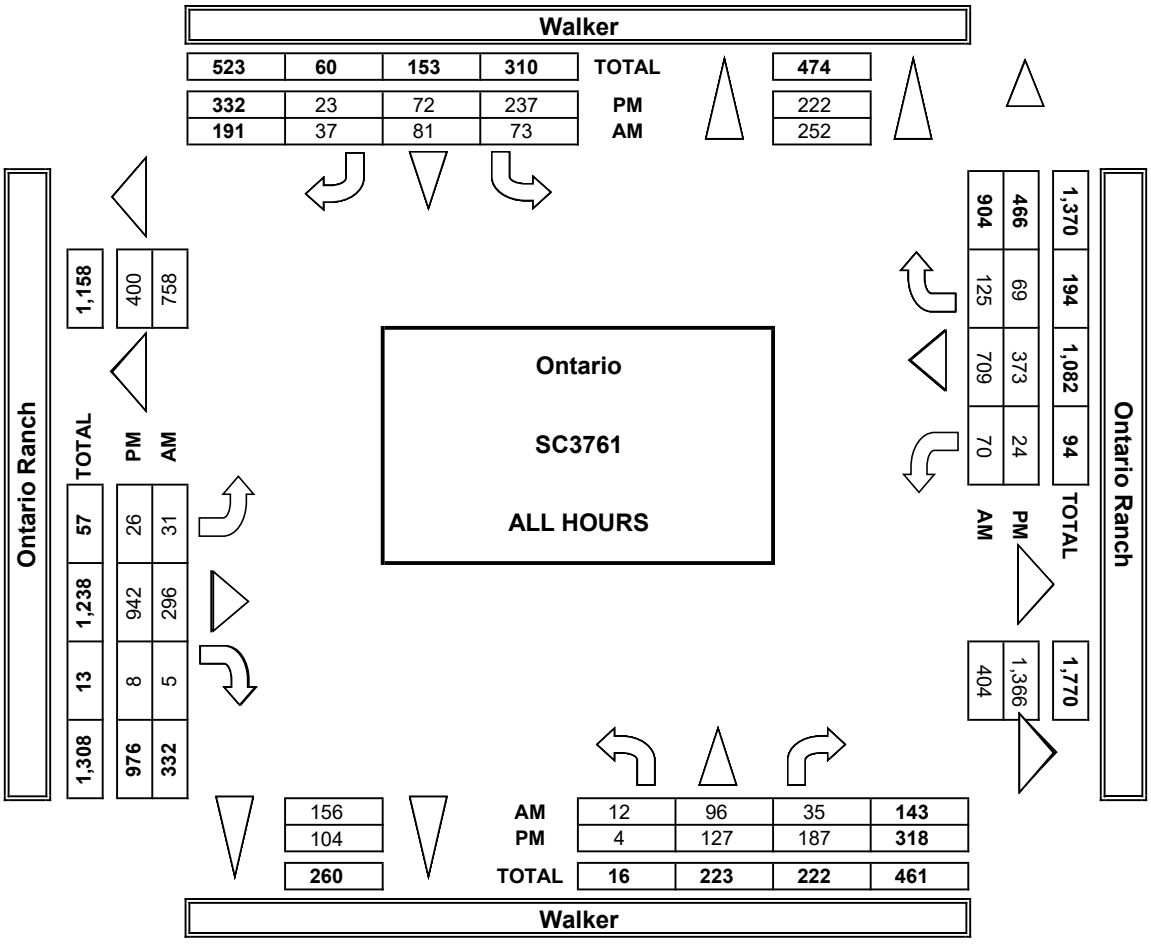
SOUTH SIDE

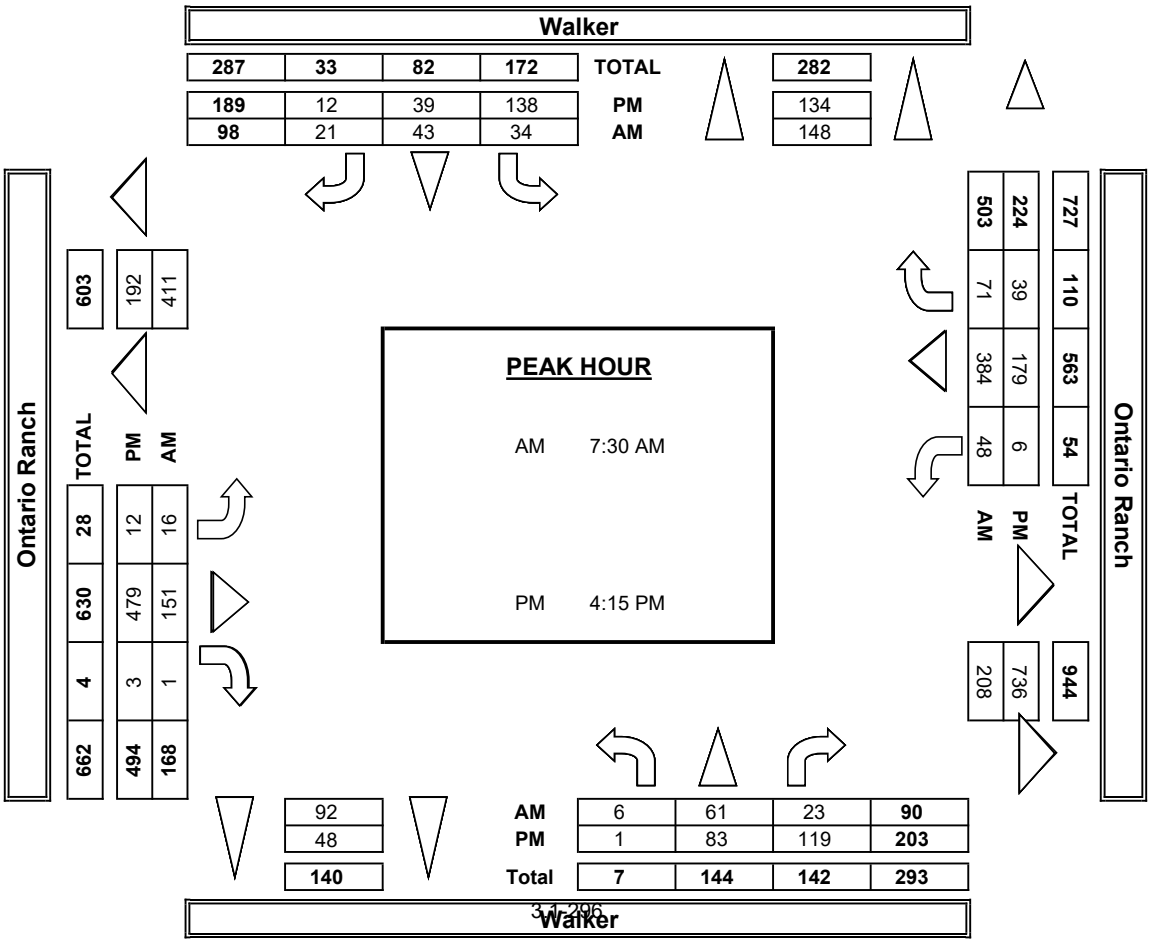
Walker

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
AM	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PM	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Walker	LOCATION #:	8
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	STOP ALL

CLASS 1: PASSENGER VEHICLES

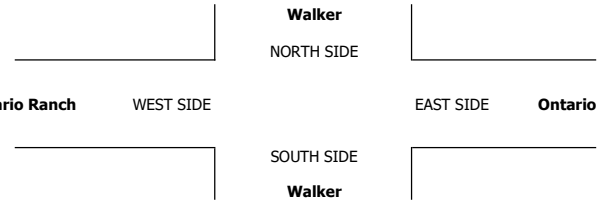
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Walker)			SOUTHBOUND (Walker)			EASTBOUND (Ontario Ranch)			WESTBOUND (Ontario Ranch)			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	2	5	0	8	2	1	1	20	0	4	64	6	113
	7:15 AM	0	3	0	3	6	1	2	18	0	4	75	12	124
	7:30 AM	0	9	1	5	8	4	0	21	0	13	92	9	162
	7:45 AM	0	6	2	5	6	3	1	26	0	10	85	21	165
	8:00 AM	2	11	7	4	7	0	4	37	0	7	76	7	162
	8:15 AM	1	5	0	2	8	1	2	28	1	6	91	12	157
	8:30 AM	0	3	1	6	7	3	2	35	0	2	92	5	156
	8:45 AM	0	2	3	2	3	0	1	29	0	3	52	2	97
	VOLUMES	5	44	14	35	47	13	13	214	1	49	627	74	1,136
	APPROACH %	8%	70%	22%	37%	49%	14%	6%	94%	0%	7%	84%	10%	
	APP/DEPART	63	/	131	95	/	97	228	/	263	750	/	645	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	3	31	10	16	29	8	7	112	1	36	344	49	646
	APPROACH %	7%	70%	23%	30%	55%	15%	6%	93%	1%	8%	80%	11%	
	PEAK HR FACTOR		0.550			0.779			0.732			0.925		0.979
	APP/DEPART	44	/	87	53	/	66	120	/	138	429	/	355	0
PM	04:00 PM	2	14	19	17	14	2	5	85	2	5	40	3	208
	4:15 PM	0	20	30	21	6	1	2	103	1	1	40	3	228
	4:30 PM	0	14	28	36	7	3	2	107	1	1	46	12	257
	4:45 PM	0	14	37	33	7	1	0	115	0	3	30	3	243
	5:00 PM	1	20	21	34	6	4	2	100	1	0	36	3	228
	5:15 PM	0	7	18	28	9	2	1	105	1	0	52	7	230
	5:30 PM	0	7	18	24	2	2	0	110	0	2	36	3	204
	5:45 PM	1	12	10	26	0	2	3	116	1	5	39	5	220
	VOLUMES	4	108	181	219	51	17	15	841	7	17	319	39	1,818
	APPROACH %	1%	37%	62%	76%	18%	6%	2%	97%	1%	5%	85%	10%	
	APP/DEPART	293	/	162	287	/	75	863	/	1,241	375	/	340	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	1	68	116	124	26	9	6	425	3	5	152	21	956
	APPROACH %	1%	37%	63%	78%	16%	6%	1%	98%	1%	3%	85%	12%	
	PEAK HR FACTOR		0.907			0.864			0.943			0.754		0.930
	APP/DEPART	185	/	95	159	/	34	434	/	665	178	/	162	0

U-TURNS					
	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
PM	0	0	0	0	0
	0	0	0	0	0

RTOR				
	NRR	SRR	ERR	WRR
	X	X	X	X
AM	0	0	0	0
	0	0	0	0
PM	0	0	0	0
	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Walker	LOCATION #:	8
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	STOP ALL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

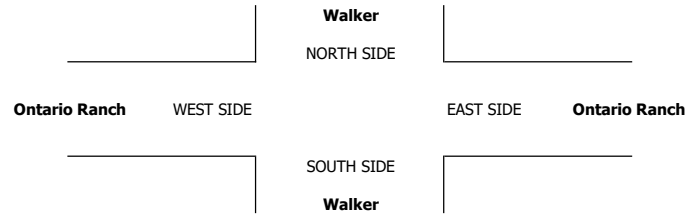
		NORTHBOUND Walker			SOUTHBOUND Walker			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	1	1	0	0	2	1	3	4	0	1	2	1	16
	7:15 AM	0	2	0	1	1	2	0	3	2	0	4	1	16
	7:30 AM	0	1	2	1	1	3	1	2	0	2	4	0	17
	7:45 AM	0	3	2	1	0	0	2	3	0	0	2	2	15
	8:00 AM	0	0	0	0	1	0	0	4	0	0	2	0	7
	8:15 AM	1	3	1	0	1	1	0	2	0	0	3	1	13
	8:30 AM	0	2	1	1	4	0	0	3	0	0	4	0	15
	8:45 AM	1	0	2	2	0	1	0	1	0	1	3	2	13
	VOLUMES	3	12	8	6	10	8	6	22	2	4	24	7	112
	APPROACH %	13%	52%	35%	25%	42%	33%	20%	73%	7%	11%	69%	20%	
	APP/DEPART	23	/	25	24	/	16	30	/	36	35	/	35	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	1	7	5	2	3	4	3	11	0	2	11	3	52
	APPROACH %	8%	54%	38%	22%	33%	44%	21%	79%	0%	13%	69%	19%	
	PEAK HR FACTOR		0.650			0.450			0.700			0.667		0.765
	APP/DEPART	13	/	13	9	/	5	14	/	18	16	/	16	0
PM	04:00 PM	0	0	1	1	3	0	2	9	0	0	0	1	17
	4:15 PM	0	3	1	0	3	0	0	11	0	0	3	1	22
	4:30 PM	0	1	1	1	2	0	0	8	0	0	2	2	17
	4:45 PM	0	5	0	3	2	0	1	3	0	0	3	1	18
	5:00 PM	0	3	0	3	0	0	2	4	0	0	2	2	16
	5:15 PM	0	1	0	1	0	1	1	4	0	0	1	1	10
	5:30 PM	0	0	1	2	0	0	0	3	0	0	1	1	8
	5:45 PM	0	0	0	0	1	0	0	1	0	0	2	0	4
	VOLUMES	0	13	4	11	11	1	6	43	0	0	14	9	112
	APPROACH %	0%	76%	24%	48%	48%	4%	12%	88%	0%	0%	61%	39%	
	APP/DEPART	17	/	28	23	/	11	49	/	58	23	/	15	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	12	2	7	7	0	3	26	0	0	10	6	73
	APPROACH %	0%	86%	14%	50%	50%	0%	10%	90%	0%	0%	63%	38%	
	PEAK HR FACTOR		0.700			0.700			0.659			1.000		0.830
	APP/DEPART	14	/	21	14	/	7	29	/	35	16	/	10	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Walker	LOCATION #:	8
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	STOP ALL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

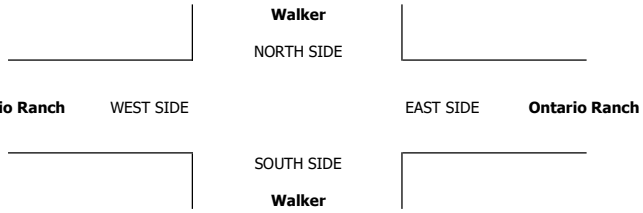
		NORTHBOUND Walker			SOUTHBOUND Walker			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	2	0	0	2	0	1	3	0	3	0	2	13
	7:15 AM	1	8	1	1	2	1	0	3	0	1	2	4	24
	7:30 AM	0	1	0	0	1	0	0	0	0	0	3	5	10
	7:45 AM	0	6	0	2	4	0	0	1	0	1	5	2	21
	8:00 AM	0	2	1	1	1	0	0	2	0	1	1	2	11
	8:15 AM	0	4	0	0	4	2	0	1	0	0	2	0	13
	8:30 AM	0	1	0	1	4	0	0	4	0	1	2	1	14
	8:45 AM	1	3	1	5	2	0	1	0	1	0	2	1	17
	VOLUMES	2	27	3	10	20	3	2	14	1	7	17	17	123
	APPROACH %	6%	84%	9%	30%	61%	9%	12%	82%	6%	17%	41%	41%	
	APP/DEPART	32	/	46	33	/	28	17	/	27	41	/	22	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	13	1	3	10	2	0	4	0	2	11	9	55
	APPROACH %	0%	93%	7%	20%	67%	13%	0%	100%	0%	9%	50%	41%	
	PEAK HR FACTOR		0.583			0.625			0.500			0.688		0.655
	APP/DEPART	14	/	22	15	/	12	4	/	8	22	/	13	0
PM	04:00 PM	0	0	0	0	1	0	1	1	0	1	4	1	9
	4:15 PM	0	1	0	1	0	0	0	3	0	0	1	0	6
	4:30 PM	0	1	1	1	2	1	1	1	0	0	3	1	12
	4:45 PM	0	1	0	1	0	0	0	0	0	0	3	0	5
	5:00 PM	0	0	0	1	2	0	0	1	0	0	1	1	6
	5:15 PM	0	0	0	0	1	0	0	1	0	2	0	0	4
	5:30 PM	0	1	0	0	0	0	0	0	0	1	1	0	3
	5:45 PM	0	0	0	0	1	0	0	1	0	1	2	1	6
	VOLUMES	0	4	1	4	7	1	2	8	0	5	15	4	51
	APPROACH %	0%	80%	20%	33%	58%	8%	20%	80%	0%	21%	63%	17%	
	APP/DEPART	5	/	10	12	/	12	10	/	13	24	/	16	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	3	1	4	4	1	1	5	0	0	8	2	29
	APPROACH %	0%	75%	25%	44%	44%	11%	17%	83%	0%	0%	80%	20%	
	PEAK HR FACTOR		0.500			0.563			0.500			0.625		0.604
	APP/DEPART	4	/	6	9	/	4	6	/	10	10	/	9	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Walker	LOCATION #:	8
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	STOP ALL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N ◄ W E ► S ▼

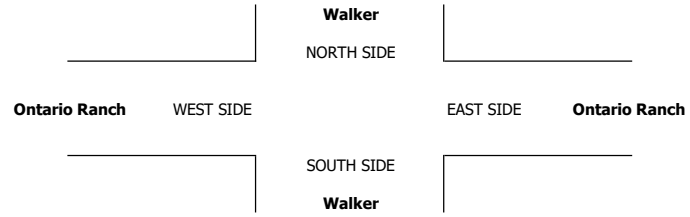
		NORTHBOUND Walker			SOUTHBOUND Walker			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	1	3	1	0	1	9	1	0	3	3	22
	7:15 AM	0	0	1	2	0	3	0	4	0	1	9	2	22
	7:30 AM	1	3	2	4	0	1	1	5	0	1	8	2	28
	7:45 AM	0	0	2	2	0	3	4	7	0	0	2	0	20
	8:00 AM	1	3	0	3	0	2	0	3	0	5	1	3	21
	8:15 AM	0	4	3	4	1	1	1	7	0	1	4	5	31
	8:30 AM	0	2	0	2	1	2	1	3	0	0	6	4	21
	8:45 AM	0	1	1	2	1	1	2	6	0	1	4	8	27
	VOLUMES	2	13	10	22	4	13	10	44	1	9	37	27	192
	APPROACH %	8%	52%	40%	56%	10%	33%	18%	80%	2%	12%	51%	37%	
	APP/DEPART	25	/	50	39	/	14	55	/	76	73	/	52	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	2	10	7	13	1	7	6	22	0	7	15	10	100
	APPROACH %	11%	53%	37%	62%	5%	33%	21%	79%	0%	22%	47%	31%	
	PEAK HR FACTOR		0.679			0.875			0.636			0.727		0.806
	APP/DEPART	19	/	26	21	/	8	28	/	42	32	/	24	0
PM	04:00 PM	0	2	1	0	0	0	0	6	1	0	3	1	14
	4:15 PM	0	0	0	1	1	1	0	4	0	1	2	4	14
	4:30 PM	0	0	0	1	0	0	1	8	0	0	5	2	17
	4:45 PM	0	0	0	1	1	0	1	6	0	0	2	3	14
	5:00 PM	0	0	0	0	0	1	0	3	0	0	0	1	5
	5:15 PM	0	0	0	0	0	2	0	4	0	0	4	0	10
	5:30 PM	0	0	0	0	1	0	0	9	0	0	4	2	16
	5:45 PM	0	0	0	0	0	0	1	8	0	1	3	4	17
	VOLUMES	0	2	1	3	3	4	3	48	1	2	23	17	107
	APPROACH %	0%	67%	33%	30%	30%	40%	6%	92%	2%	5%	55%	40%	
	APP/DEPART	3	/	22	10	/	6	52	/	52	42	/	27	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	0	0	3	2	2	2	21	0	1	9	10	50
	APPROACH %	0%	0%	0%	43%	29%	29%	9%	91%	0%	5%	45%	50%	
	PEAK HR FACTOR		0.000			0.583			0.639			0.714		0.735
	APP/DEPART	0	/	12	7	/	3	23	/	24	20	/	11	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Walker	LOCATION #:	8
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	STOP ALL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

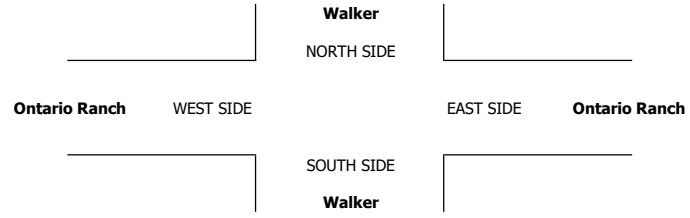
		NORTHBOUND Walker			SOUTHBOUND Walker			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	0	0	0	0	0	0	1	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.250			0.000		0.250
	APP/DEPART	0	/	0	0	/	0	1	/	1	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR X	ERR X	WRR X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3761
11/29/22	NORTH & SOUTH:	Walker	LOCATION #:	8
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	STOP ALL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

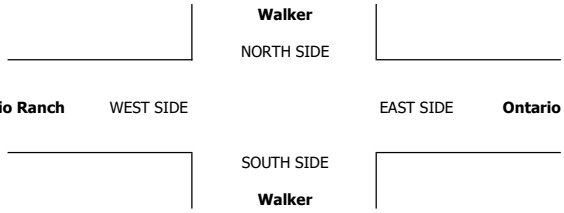
		NORTHBOUND Walker			SOUTHBOUND Walker			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 0	NT 1	NR 0	SL 0	ST 1	SR 0	EL 0	ET 1	ER 0	WL 0	WT 1	WR 0	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	1	0	0	1	0	2
	8:00 AM	0	0	0	0	0	0	0	1	0	1	1	0	3
	8:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	2	0	1	4	0	7
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	20%	80%	0%	
	APP/DEPART	0	/	0	0	/	1	2	/	2	5	/	4	0
	BEGIN PEAK HR		7:30 AM											
	VOLUMES	0	0	0	0	0	0	0	2	0	1	3	0	6
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	25%	75%	0%	
	PEAK HR FACTOR		0.000			0.000			0.500			0.500		0.500
	APP/DEPART	0	/	0	0	/	1	2	/	2	4	/	3	0
PM	04:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0
	BEGIN PEAK HR		4:15 PM											
	VOLUMES	0	0	0	0	0	0	0	1	0	0	0	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.250			0.000		0.250
	APP/DEPART	0	/	0	0	/	0	1	/	1	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
X	X	X	X
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Apr 13, 22	LOCATION:	Ontario	PROJECT #: SC3380
	NORTH & SOUTH:	Archibald	LOCATION #: 16
	EAST & WEST:	Edison	CONTROL: SIGNAL

NOTES:

AM PM MD OTHER OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Archibald			SOUTHBOUND Archibald			EASTBOUND Edison			WESTBOUND Edison			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 2	ET 2	ER 1	WL 2	WT 1	WR 1	TOTAL
AM	7:00 AM	30	158	42	14	75	0	6	23	11	54	53	23	489
	7:15 AM	41	238	60	14	76	9	5	18	12	50	80	21	624
	7:30 AM	48	268	44	11	102	10	8	29	16	44	58	32	670
	7:45 AM	41	259	43	22	128	15	2	31	17	49	66	31	704
	8:00 AM	31	172	51	28	125	11	6	21	15	33	54	14	561
	8:15 AM	25	196	40	13	105	12	7	35	17	34	58	25	567
	8:30 AM	27	230	56	18	101	11	6	26	15	53	47	13	603
	8:45 AM	34	202	54	14	103	13	4	20	23	36	37	12	552
	VOLUMES	277	1,723	390	134	815	81	44	203	126	353	453	171	4,770
	APPROACH %	12%	72%	16%	13%	79%	8%	12%	54%	34%	36%	46%	18%	
	APP/DEPART	2,390	/ 1,940		1,030	/ 1,297		373	/ 727		977	/ 806		0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	161	937	198	75	431	45	21	99	60	176	258	98	2,559
	APPROACH %	12%	72%	15%	14%	78%	8%	12%	55%	33%	33%	48%	18%	
	PEAK HR FACTOR		0.900			0.835			0.849			0.881		0.909
	APP/DEPART	1,296	/ 1,057		551	/ 669		180	/ 372		532	/ 461		0
PM	4:00 PM	28	175	77	29	145	14	22	85	38	40	27	31	711
	4:15 PM	11	167	62	35	141	6	20	104	60	41	43	34	724
	4:30 PM	30	171	65	40	185	11	17	95	64	41	30	28	777
	4:45 PM	18	169	68	30	178	5	23	129	70	48	40	27	805
	5:00 PM	20	188	67	32	138	15	11	122	57	45	32	24	751
	5:15 PM	19	145	49	38	169	7	26	112	62	42	37	20	726
	5:30 PM	27	175	56	26	181	14	16	94	51	42	38	19	739
	5:45 PM	18	138	52	33	174	10	12	82	57	77	51	21	725
	VOLUMES	171	1,328	496	263	1,311	82	147	823	459	376	298	204	5,958
	APPROACH %	9%	67%	25%	16%	79%	5%	10%	58%	32%	43%	34%	23%	
	APP/DEPART	1,995	/ 1,682		1,656	/ 2,146		1,429	/ 1,578		878	/ 552		0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	87	673	249	140	670	38	77	458	253	176	139	99	3,059
	APPROACH %	9%	67%	25%	17%	79%	4%	10%	58%	32%	43%	34%	24%	
	PEAK HR FACTOR		0.917			0.898			0.887			0.900		0.950
	APP/DEPART	1,009	/ 853		848	/ 1,099		788	/ 843		414	/ 264		0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	
0	1	0	1	2
2	0	0	0	2
0	0	0	0	0
0	0	0	1	1
1	1	0	0	2
1	0	0	0	1
0	0	0	0	0
1	0	0	0	1
5	2	0	2	9
1	0	0	0	1
0	1	0	1	2
0	3	0	0	3
0	0	0	0	0
0	1	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	2	0	2
1	5	2	1	9

RTOR

NRR X	SRR 0	ERR X	WRR 0
0	0	0	12
0	2	0	5
0	2	0	7
0	3	0	3
0	3	0	6
0	2	0	9
0	3	0	6
0	2	0	2
0	17	0	50
0	10	0	21
0	5	0	15
0	2	0	12
0	4	0	12
0	2	0	11
0	9	0	4
0	3	0	13
0	1	0	9
0	0	0	12
0	26	0	88
0	18	0	40

Archibald

NORTH SIDE

Edison WEST SIDE EAST SIDE **Edison**

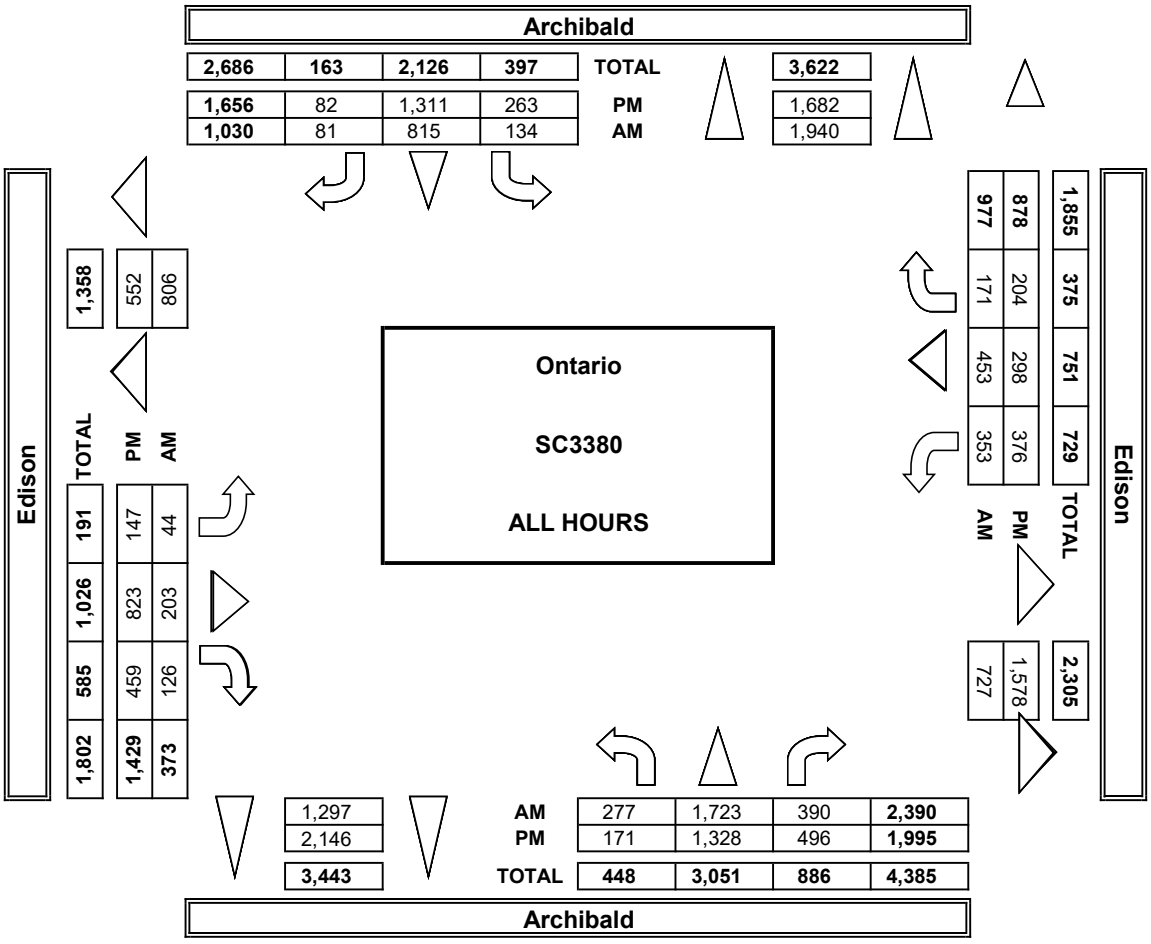
SOUTH SIDE

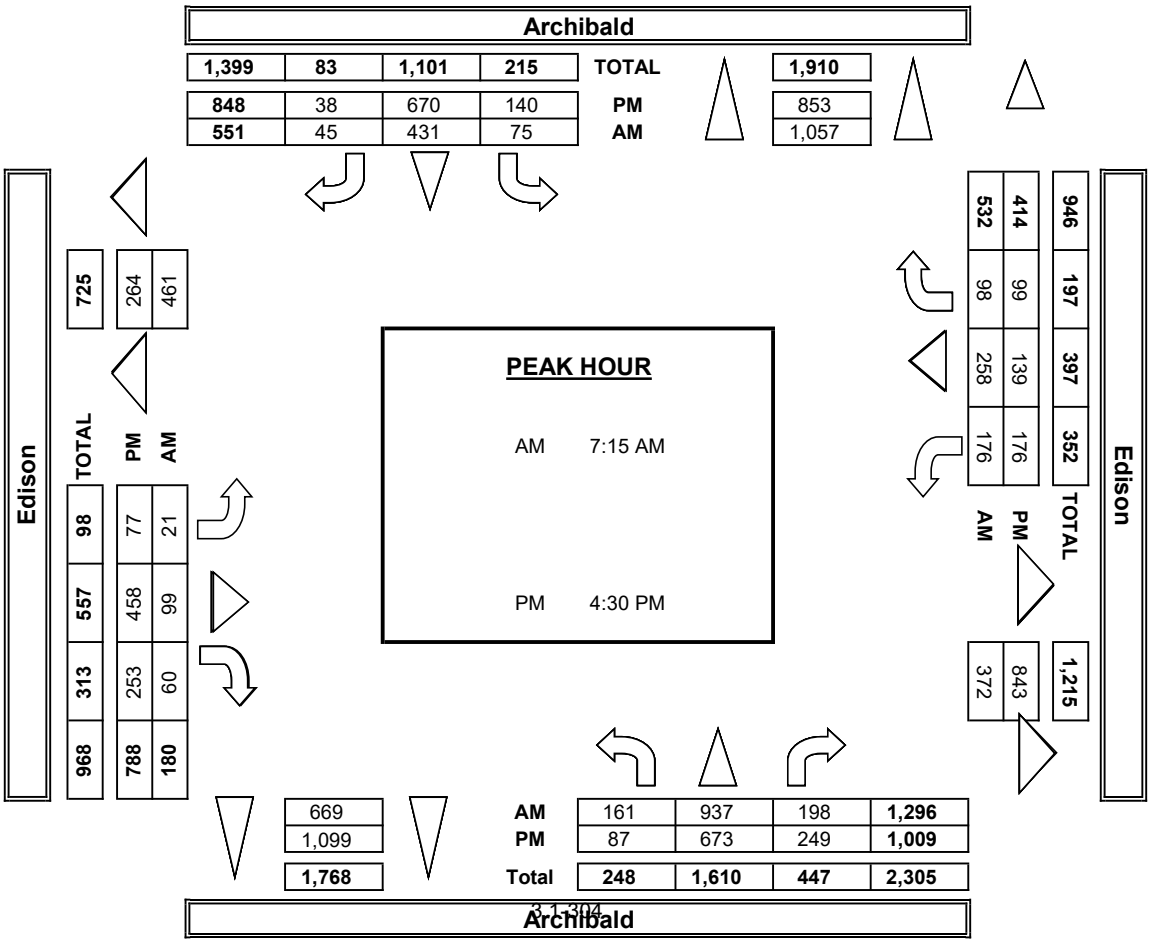
Archibald

		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	1	0	1	2	0	0	0	0	0	0	1	0	1	2
	7:30 AM	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	1	0	0	0	1	0	0	0	0	0	1	0	0	0	1
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	1	2	0	1	4	0	0	0	0	0	1	2	0	1	4
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	1	0	1	2	0	0	0	0	0	0	1	0	1	2
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	1	1	0	0	0	1	1	0	0	0	0	0
	5:30 PM	0	2	0	0	2	0	1	0	0	1	0	1	0	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	TOTAL	0	3	0	2	5	0	1	0	1	2	0	2	0	1	3

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Archibald	LOCATION #:	16
WEDNESDAY	EAST & WEST:	Edison	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

	NORTHBOUND (Archibald)			SOUTHBOUND (Archibald)			EASTBOUND (Edison)			WESTBOUND (Edison)			
LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 2	ET 2	ER 1	WL 2	WT 1	WR 1	TOTAL
7:00 AM	26	141	34	11	54	0	1	11	9	40	43	22	392
7:15 AM	39	217	38	12	64	8	3	14	11	35	62	18	521
7:30 AM	47	243	30	8	85	6	4	23	15	32	46	30	569
7:45 AM	39	236	31	21	111	12	1	21	12	40	58	28	610
8:00 AM	29	153	37	22	114	7	4	16	13	23	50	13	481
8:15 AM	23	174	21	10	93	8	4	25	15	23	44	22	462
8:30 AM	26	214	33	16	81	6	3	18	14	36	37	11	495
8:45 AM	32	184	37	13	84	11	3	13	19	24	31	11	462
AM VOLUMES	261	1,562	261	113	686	58	23	141	108	253	371	155	3,992
AM APPROACH %	13%	75%	13%	13%	80%	7%	8%	52%	40%	32%	48%	20%	
AM APP/DEPART	2,084	/	1,741	857	/	1,047	272	/	516	779	/	688	0
BEGIN PEAK HR		7:15 AM											
PEAK HR VOLUMES	152	849	136	62	374	33	12	74	51	129	216	89	2,181
PEAK HR APPROACH %	13%	75%	12%	13%	80%	7%	9%	54%	37%	30%	50%	20%	
PEAK HR FACTOR		0.890			0.816			0.815			0.863		0.894
AM PEAK HR APP/DEPART	1,139	/	951	470	/	556	137	/	273	435	/	401	0
4:00 PM	26	152	58	28	129	5	21	74	38	29	19	28	607
4:15 PM	11	142	50	32	131	5	19	95	57	30	26	32	630
4:30 PM	27	156	56	37	167	7	14	81	58	31	26	27	687
4:45 PM	16	152	59	30	161	3	17	121	66	41	31	24	721
5:00 PM	16	171	56	31	127	8	10	111	54	29	26	22	661
5:15 PM	17	130	44	38	157	7	23	100	61	29	31	19	656
5:30 PM	26	163	43	24	169	9	15	85	50	36	37	19	676
5:45 PM	18	121	46	32	159	7	11	76	54	60	43	20	647
PM VOLUMES	157	1,187	412	252	1,200	51	130	743	438	285	239	191	5,285
PM APPROACH %	9%	68%	23%	17%	80%	3%	10%	57%	33%	40%	33%	27%	
PM APP/DEPART	1,756	/	1,512	1,503	/	1,924	1,311	/	1,402	715	/	447	0
BEGIN PEAK HR		4:30 PM											
PEAK HR VOLUMES	76	609	215	132	612	25	64	413	239	130	114	92	2,725
PEAK HR APPROACH %	8%	68%	24%	17%	79%	3%	9%	58%	33%	39%	34%	27%	
PEAK HR FACTOR		0.926			0.916			0.877			0.875		0.945
PM PEAK HR APP/DEPART	900	/	769	773	/	981	716	/	760	336	/	215	0

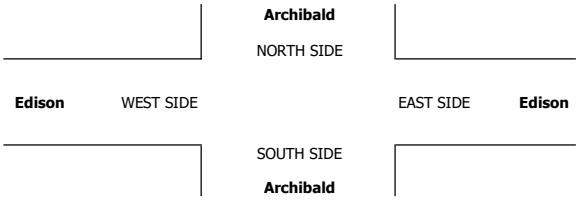
U-TURNS

	NB	SB	EB	WB	TTL
AM	2	1	0	2	5
PM	1	5	1	0	7

RTOR

	NRR X	SRR 0	ERR X	WRR 0
AM	0	10	0	48
PM	0	13	0	83

0	5	0	19	
0	10	0	37	



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Archibald	LOCATION #:	16
WEDNESDAY	EAST & WEST:	Edison	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

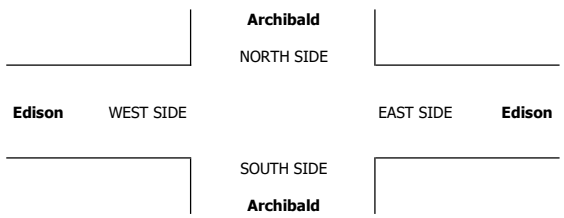
		NORTHBOUND Archibald			SOUTHBOUND Archibald			EASTBOUND Edison			WESTBOUND Edison			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 2	ET 2	ER 1	WL 2	WT 1	WR 1	TOTAL
AM	7:00 AM	0	8	2	1	14	0	0	2	1	3	4	0	35
	7:15 AM	1	9	10	1	4	1	1	1	1	2	8	1	40
	7:30 AM	1	11	6	0	7	1	0	3	0	2	2	0	33
	7:45 AM	0	8	2	0	6	0	0	3	3	1	3	2	28
	8:00 AM	1	2	3	3	0	1	0	1	2	2	1	1	17
	8:15 AM	1	4	7	2	3	0	0	6	0	3	3	1	30
	8:30 AM	0	6	6	0	7	4	0	2	1	5	3	0	34
	8:45 AM	1	9	4	0	7	1	0	2	1	4	3	0	32
	VOLUMES	5	57	40	7	48	8	1	20	9	22	27	5	249
	APPROACH %	5%	56%	39%	11%	76%	13%	3%	67%	30%	41%	50%	9%	
	APP/DEPART	102	/	63	63	/	81	30	/	67	54	/	38	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	3	30	21	4	17	3	1	8	6	7	14	4	118
	APPROACH %	6%	56%	39%	17%	71%	13%	7%	53%	40%	28%	56%	16%	
	PEAK HR FACTOR		0.675			0.750			0.625			0.568		0.738
	APP/DEPART	54	/	35	24	/	30	15	/	33	25	/	20	0
PM	4:00 PM	1	8	8	1	6	2	0	2	0	1	1	1	31
	4:15 PM	0	12	3	1	5	0	0	4	3	2	6	2	38
	4:30 PM	2	6	4	0	6	1	1	6	5	4	0	0	35
	4:45 PM	2	10	0	0	4	1	2	4	3	1	3	1	31
	5:00 PM	2	7	2	1	4	0	0	7	1	4	1	2	31
	5:15 PM	2	7	2	0	1	0	1	8	1	4	1	0	27
	5:30 PM	0	5	3	1	6	0	0	3	1	1	0	0	20
	5:45 PM	0	4	0	1	7	0	1	2	1	3	1	0	20
	VOLUMES	9	59	22	5	39	4	5	36	15	20	13	6	233
	APPROACH %	10%	66%	24%	10%	81%	8%	9%	64%	27%	51%	33%	15%	
	APP/DEPART	90	/	69	48	/	74	56	/	63	39	/	27	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	8	30	8	1	15	2	4	25	10	13	5	3	124
	APPROACH %	17%	65%	17%	6%	83%	11%	10%	64%	26%	62%	24%	14%	
	PEAK HR FACTOR		0.958			0.643			0.813			0.750		0.886
	APP/DEPART	46	/	37	18	/	38	39	/	34	21	/	15	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
1	0	0	0	1
2	0	0	0	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	1
0	0	1	0	1

RTOR

NRR	SRR	ERR	WRR
X	0	X	0
0	0	0	0
0	0	0	0
0	1	0	0
0	0	0	0
0	1	0	0
0	0	0	0
0	2	0	0
0	0	0	0
0	4	0	0
0	2	0	0
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	1	0	2
0	0	0	2



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Archibald	LOCATION #:	16
WEDNESDAY	EAST & WEST:	Edison	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

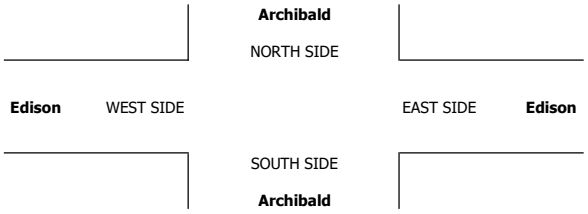
		NORTHBOUND Archibald			SOUTHBOUND Archibald			EASTBOUND Edison			WESTBOUND Edison			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 2	ET 2	ER 1	WL 2	WT 1	WR 1	TOTAL
AM	7:00 AM	1	2	1	0	2	0	1	2	1	3	3	0	16
	7:15 AM	1	6	1	0	3	0	1	2	0	6	5	2	27
	7:30 AM	0	5	1	0	3	1	2	2	0	2	2	0	18
	7:45 AM	1	2	1	0	4	0	0	1	2	3	1	0	15
	8:00 AM	0	2	6	1	3	2	0	1	0	3	1	0	19
	8:15 AM	0	2	7	1	3	0	1	0	1	1	5	0	21
	8:30 AM	1	1	11	1	3	0	1	3	0	1	2	0	24
	8:45 AM	0	1	10	1	1	1	1	1	2	3	0	0	21
	VOLUMES	4	21	38	4	22	4	7	12	6	22	19	2	161
	APPROACH %	6%	33%	60%	13%	73%	13%	28%	48%	24%	51%	44%	5%	
	APP/DEPART	63	/	30	30	/	50	25	/	54	43	/	27	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	2	15	9	1	13	3	3	6	2	14	9	2	79
	APPROACH %	8%	58%	35%	6%	76%	18%	27%	55%	18%	56%	36%	8%	
	PEAK HR FACTOR		0.813			0.708			0.688			0.481		0.731
	APP/DEPART	26	/	20	17	/	29	11	/	16	25	/	14	0
PM	4:00 PM	0	5	3	0	3	0	1	2	0	1	1	1	17
	4:15 PM	0	7	2	1	2	0	0	1	0	2	1	0	16
	4:30 PM	1	3	2	0	2	0	1	2	1	0	1	1	14
	4:45 PM	0	2	2	0	4	0	0	0	0	3	2	0	13
	5:00 PM	1	6	6	0	1	1	1	0	0	0	0	0	16
	5:15 PM	0	1	2	0	4	0	0	1	0	3	1	0	12
	5:30 PM	0	2	2	0	0	0	0	0	0	1	0	0	5
	5:45 PM	0	1	5	0	3	0	0	0	1	2	1	0	13
	VOLUMES	2	27	24	1	19	1	3	6	2	12	7	2	106
	APPROACH %	4%	51%	45%	5%	90%	5%	27%	55%	18%	57%	33%	10%	
	APP/DEPART	53	/	32	21	/	33	11	/	31	21	/	10	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	2	12	12	0	11	1	2	3	1	6	4	1	55
	APPROACH %	8%	46%	46%	0%	92%	8%	33%	50%	17%	55%	36%	9%	
	PEAK HR FACTOR		0.500			0.750			0.375			0.550		0.859
	APP/DEPART	26	/	15	12	/	18	6	/	15	11	/	7	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR 0	ERR X	WRR 0
0	0	0	0
0	0	0	1
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	1	0	1
0	1	0	1
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	1	0	1
0	1	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Archibald	LOCATION #:	16
WEDNESDAY	EAST & WEST:	Edison	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

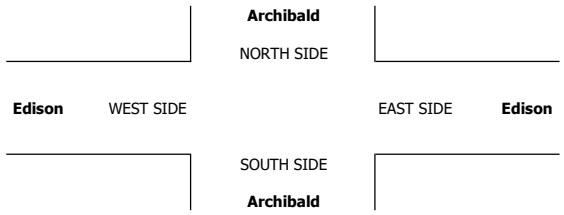
		NORTHBOUND Archibald			SOUTHBOUND Archibald			EASTBOUND Edison			WESTBOUND Edison			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 2	ET 2	ER 1	WL 2	WT 1	WR 1	TOTAL
AM	7:00 AM	3	7	4	1	4	0	3	8	0	8	2	1	41
	7:15 AM	0	3	11	1	4	0	0	1	0	6	5	0	31
	7:30 AM	0	9	6	3	5	2	2	1	0	8	8	1	45
	7:45 AM	1	12	9	1	6	3	1	5	0	5	4	1	48
	8:00 AM	1	15	5	1	8	1	2	3	0	5	2	0	43
	8:15 AM	1	14	5	0	6	4	2	4	1	7	6	2	52
	8:30 AM	0	9	6	1	10	1	2	3	0	11	5	2	50
	8:45 AM	1	8	3	0	11	0	0	4	1	5	3	0	36
	VOLUMES	7	77	49	8	54	11	12	29	2	55	35	7	346
	APPROACH %	5%	58%	37%	11%	74%	15%	28%	67%	5%	57%	36%	7%	
	APP/DEPART	133	/	96	73	/	112	43	/	86	97	/	52	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	1	39	31	6	23	6	5	10	0	24	19	2	167
	APPROACH %	1%	54%	43%	17%	66%	17%	33%	67%	0%	53%	42%	4%	
	PEAK HR FACTOR		0.818			0.875			0.625			0.662		0.870
	APP/DEPART	72	/	46	35	/	48	15	/	47	45	/	26	0
PM	4:00 PM	1	9	7	0	7	7	0	7	0	9	6	0	53
	4:15 PM	0	6	7	0	3	1	1	4	0	6	10	0	38
	4:30 PM	0	6	3	3	10	3	1	6	0	6	3	0	41
	4:45 PM	0	5	7	0	9	1	4	4	1	3	3	1	38
	5:00 PM	1	4	3	0	6	6	0	4	2	12	5	0	43
	5:15 PM	0	7	1	0	7	0	2	3	0	6	4	1	31
	5:30 PM	1	5	8	1	6	5	1	6	0	4	1	0	38
	5:45 PM	0	12	1	0	5	3	0	4	1	12	6	1	45
	VOLUMES	3	54	37	4	53	26	9	38	4	58	38	3	327
	APPROACH %	3%	57%	39%	5%	64%	31%	18%	75%	8%	59%	38%	3%	
	APP/DEPART	94	/	66	83	/	115	51	/	79	99	/	67	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	1	22	14	3	32	10	7	17	3	27	15	2	153
	APPROACH %	3%	59%	38%	7%	71%	22%	26%	63%	11%	61%	34%	5%	
	PEAK HR FACTOR		0.771			0.703			0.750			0.647		0.890
	APP/DEPART	37	/	31	45	/	62	27	/	34	44	/	26	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
1	0	0	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
X	0	X	0
0	0	0	0
0	0	0	0
0	0	0	1
0	1	0	0
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	2	0	1
0	2	0	1
0	2	0	0
0	1	0	0
0	3	0	0
0	0	0	0
0	4	0	0
0	0	0	0
0	1	0	0
0	0	0	1
0	11	0	1
0	7	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Archibald	LOCATION #:	16
WEDNESDAY	EAST & WEST:	Edison	CONTROL:	SIGNAL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Archibald			SOUTHBOUND Archibald			EASTBOUND Edison			WESTBOUND Edison			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 2	ET 2	ER 1	WL 2	WT 1	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	1
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	1	0	0	0	0	0	0	0	0	1	0	2
	APPROACH %	0%	100%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	
	APP/DEPART	1	/	1	0	/	0	0	/	0	1	/	1	0
	BEGIN PEAK HR		4:30 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	1	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.250		0.250
	APP/DEPART	0	/	0	0	/	0	0	/	0	1	/	1	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR X	SRR 0	ERR X	WRR 0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0

Archibald

NORTH SIDE

Edison WEST SIDE EAST SIDE **Edison**

SOUTH SIDE

Archibald

INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

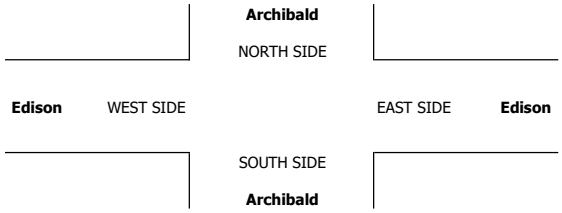
DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Archibald	LOCATION #:	16
WEDNESDAY	EAST & WEST:	Edison	CONTROL:	SIGNAL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND Archibald			SOUTHBOUND Archibald			EASTBOUND Edison			WESTBOUND Edison				U-TURNS					RTOR			
	LANES:	NL 1	NT 2	NR 1	SL 1	ST 2	SR 0	EL 2	ET 2	ER 1	WL 2	WT 1	WR 1	TOTAL	NB	SB	EB	WB	TTL	NRR X	SRR 0	ERR X	WRR 0
AM	7:00 AM	0	0	1	0	1	0	1	0	0	0	1	0	4	0	0	0	0	0	0	0	0	0
	7:15 AM	0	3	0	0	1	0	0	0	0	1	0	0	5	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	1	0	2	0	0	0	1	0	0	1	5	0	0	0	0	0	0	0	0	0
	7:45 AM	0	1	0	0	1	0	0	1	0	0	0	0	3	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	8:15 AM	0	2	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0
	VOLUMES	0	6	2	1	5	0	1	1	1	1	1	2	21	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	75%	25%	17%	83%	0%	33%	33%	33%	25%	25%	50%										
	APP/DEPART	8	/	9	6	/	7	3	/	4	4	/	1	0									
	BEGIN PEAK HR		7:15 AM																				
	VOLUMES	0	4	1	1	4	0	0	1	1	1	0	1	14						0	0	0	0
	APPROACH %	0%	80%	20%	20%	80%	0%	0%	50%	50%	50%	0%	50%										
	PEAK HR FACTOR		0.417			0.625			0.500			0.500		0.700									
	APP/DEPART	5	/	5	5	/	6	2	/	3	2	/	0	0									
PM	4:00 PM	0	0	1	0	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	1	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	1	1	0	0	0	0	0	0	0	2	4	0	0	0	0	0	0	0	0	1
	APPROACH %	0%	0%	100%	100%	0%	0%	0%	0%	0%	0%	0%	100%										
	APP/DEPART	1	/	2	1	/	0	0	/	2	2	/	0	0									
	BEGIN PEAK HR		4:30 PM																				
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	1	1						0	0	0	1
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	100%										
	PEAK HR FACTOR		0.000			0.000			0.000			0.250		0.250									
	APP/DEPART	0	/	1	0	/	0	0	/	0	1	/	0	0									



INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tue, May 10, 22	LOCATION:	Ontario	PROJECT #: SC3418
	NORTH & SOUTH:	Turner	LOCATION #: 4
	EAST & WEST:	Ontario Ranch	CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

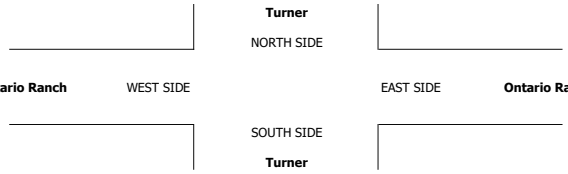
	NORTHBOUND (Turner)			SOUTHBOUND (Turner)			EASTBOUND (Ontario Ranch)			WESTBOUND (Ontario Ranch)			
LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM 7:00 AM	9	6	12	7	1	2	1	61	4	3	139	5	250
7:15 AM	12	26	7	8	3	4	7	75	3	3	142	6	296
7:30 AM	6	43	11	7	15	5	11	82	1	3	134	8	326
7:45 AM	8	46	8	18	14	8	6	80	7	20	139	7	361
8:00 AM	7	13	8	18	31	2	7	94	4	5	123	3	315
8:15 AM	11	4	4	6	6	5	5	101	7	9	103	5	266
8:30 AM	14	4	10	5	5	0	2	71	5	7	102	6	231
8:45 AM	8	2	7	8	3	1	1	87	5	6	129	4	261
VOLUMES	75	144	67	77	78	27	40	651	36	56	1,011	44	2,306
APPROACH %	26%	50%	23%	42%	43%	15%	6%	90%	5%	5%	91%	4%	
APP/DEPART	286	/	224	182	/	166	727	/	799	1,111	/	1,117	0
BEGIN PEAK HR		7:15 AM											
VOLUMES	33	128	34	51	63	19	31	331	15	31	538	24	1,298
APPROACH %	17%	66%	17%	38%	47%	14%	8%	88%	4%	5%	91%	4%	
PEAK HR FACTOR		0.786			0.652			0.898			0.893		0.899
APP/DEPART	195	/	180	133	/	106	377	/	419	593	/	593	0
PM 4:00 PM	8	4	8	13	6	3	4	175	10	9	92	8	340
4:15 PM	3	7	5	9	6	3	4	170	10	8	118	5	348
4:30 PM	3	4	9	6	4	2	3	156	11	4	95	8	305
4:45 PM	3	1	4	10	6	2	2	216	6	9	114	6	379
5:00 PM	3	3	10	11	4	1	6	188	10	17	121	9	383
5:15 PM	5	2	6	8	9	4	4	228	16	14	121	2	419
5:30 PM	5	5	7	12	6	1	4	177	11	14	120	7	369
5:45 PM	11	4	7	15	1	3	3	184	13	7	122	6	376
VOLUMES	41	30	56	84	42	19	30	1,494	87	82	903	51	2,919
APPROACH %	32%	24%	44%	58%	29%	13%	2%	93%	5%	8%	87%	5%	
APP/DEPART	127	/	109	145	/	205	1,611	/	1,640	1,036	/	965	0
BEGIN PEAK HR		4:45 PM											
VOLUMES	16	11	27	41	25	8	16	809	43	54	476	24	1,550
APPROACH %	30%	20%	50%	55%	34%	11%	2%	93%	5%	10%	86%	4%	
PEAK HR FACTOR		0.794			0.881			0.875			0.942		0.925
APP/DEPART	54	/	51	74	/	119	868	/	880	554	/	500	0

U-TURNS

	NB	SB	EB	WB	TTL
AM 7:00 AM	0	0	1	0	1
7:15 AM	0	0	0	0	0
7:30 AM	0	0	1	1	2
7:45 AM	0	0	1	0	1
8:00 AM	0	0	1	2	3
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	1	1
	0	0	4	4	8
PM 4:00 PM	0	0	1	1	2
4:15 PM	0	0	0	0	0
4:30 PM	0	0	1	1	2
4:45 PM	0	0	0	1	1
5:00 PM	0	0	0	1	1
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	1	1
5:45 PM	0	0	0	1	1
	0	0	2	6	8

RTOR

	NRR	SRR	ERR	WRR
AM 7:00 AM	5	1	2	2
7:15 AM	0	2	2	4
7:30 AM	1	2	0	1
7:45 AM	3	4	2	1
8:00 AM	1	2	0	1
8:15 AM	1	0	4	0
8:30 AM	6	0	0	2
8:45 AM	5	0	0	0
	22	11	10	11
	5	10	4	7
PM 4:00 PM	5	1	2	2
4:15 PM	2	2	3	1
4:30 PM	7	1	1	1
4:45 PM	3	0	0	2
5:00 PM	3	1	0	1
5:15 PM	3	1	4	0
5:30 PM	2	0	1	0
5:45 PM	2	1	1	1
	27	7	12	8
	11	2	5	3



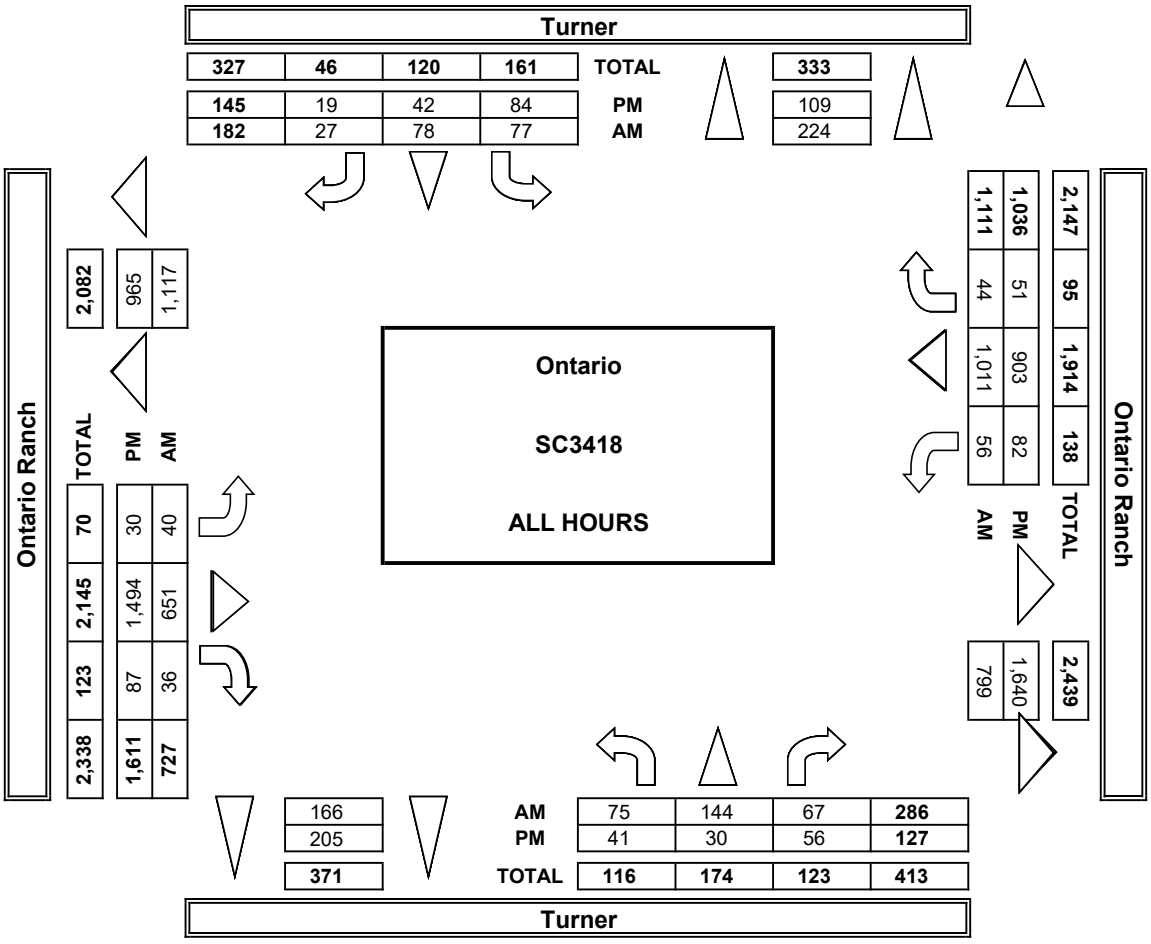
	ALL PED AND BIKE				
	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
AM 7:00 AM	0	0	0	0	0
7:15 AM	5	0	0	0	5
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	1	0	0	1	2
8:30 AM	3	0	0	1	4
8:45 AM	0	0	0	0	0
TOTAL	9	0	0	2	11
PM 4:00 PM	0	0	0	0	0
4:15 PM	0	0	1	0	1
4:30 PM	0	0	0	1	1
4:45 PM	1	0	0	1	2
5:00 PM	1	0	0	0	1
5:15 PM	0	0	0	0	0
5:30 PM	1	0	0	1	2
5:45 PM	0	0	0	0	0
TOTAL	3	0	1	3	7

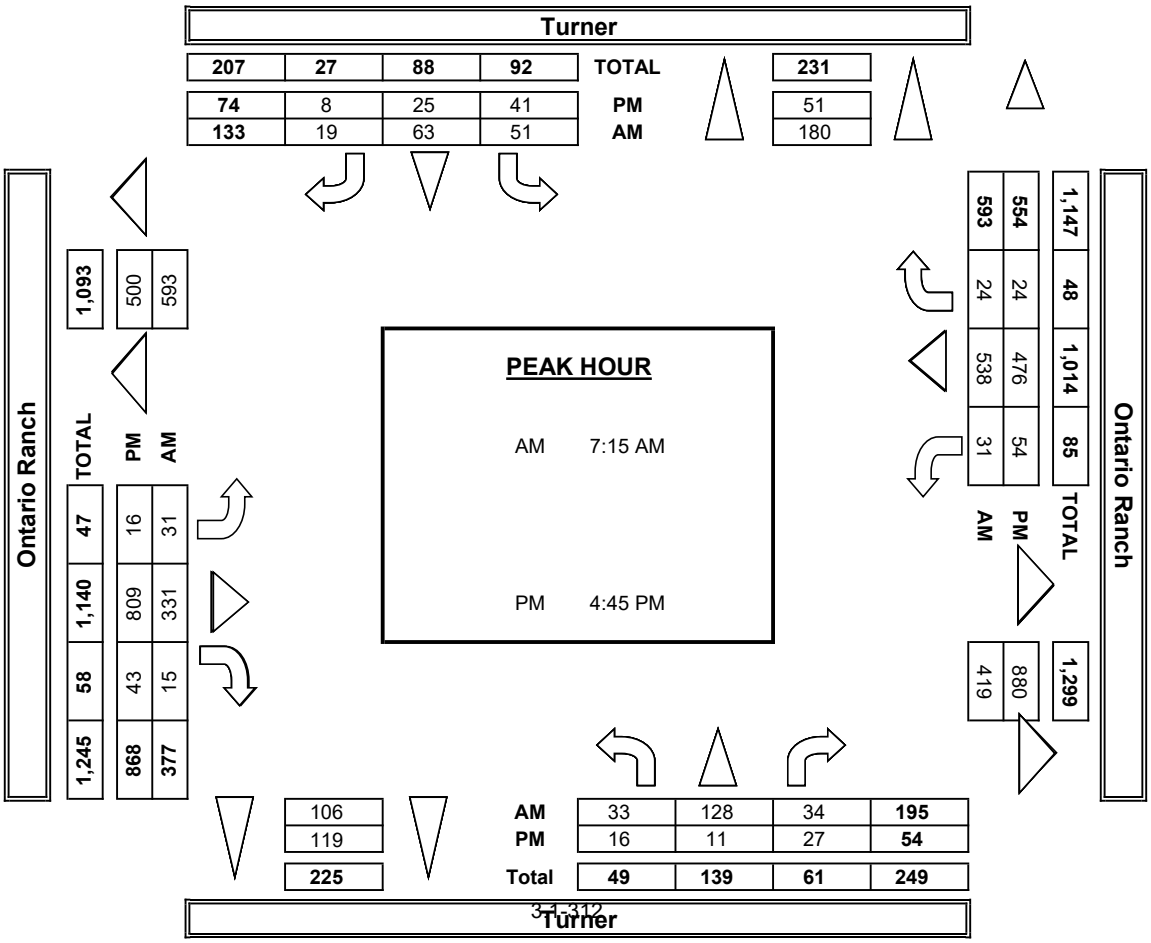
	PEDESTRIAN CROSSINGS				
	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL
AM 7:00 AM	0	0	0	0	0
7:15 AM	1	0	0	0	1
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	1	1
8:30 AM	3	0	0	1	4
8:45 AM	0	0	0	0	0
TOTAL	4	0	0	2	6
PM 4:00 PM	0	0	0	0	0
4:15 PM	0	0	1	0	1
4:30 PM	0	0	0	1	1
4:45 PM	1	0	0	0	1
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	1	0	0	1	2
5:45 PM	0	0	0	0	0
TOTAL	2	0	1	2	5

	BICYCLE CROSSINGS				
	ES	WS	SS	NS	TOTAL
AM 7:00 AM	0	0	0	0	0
7:15 AM	4	0	0	0	4
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	1	0	0	0	1
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL	5	0	0	0	5
PM 4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	1	1
5:00 PM	1	0	0	0	1
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL	1	0	0	1	2

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3418
5/10/22	NORTH & SOUTH:	Turner	LOCATION #:	4
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

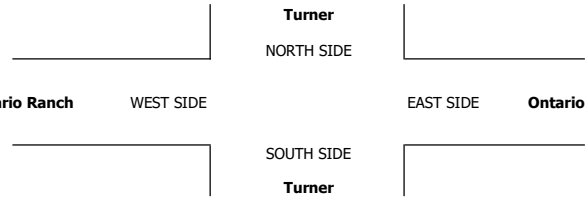
		NORTHBOUND (Turner)			SOUTHBOUND (Turner)			EASTBOUND (Ontario Ranch)			WESTBOUND (Ontario Ranch)			
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	9	6	12	7	1	2	0	47	3	2	113	5	207
	7:15 AM	10	23	7	7	3	4	6	50	3	2	124	6	245
	7:30 AM	5	42	11	6	14	5	10	58	1	2	103	8	265
	7:45 AM	8	46	8	17	14	8	5	59	7	9	104	7	292
	8:00 AM	6	13	8	18	31	2	5	65	4	4	97	3	256
	8:15 AM	11	4	4	6	5	5	5	71	7	9	87	5	219
	8:30 AM	14	4	9	5	4	0	2	54	5	6	71	4	178
	8:45 AM	7	2	7	7	3	1	1	63	5	6	85	4	191
	VOLUMES	70	140	66	73	75	27	34	467	35	40	784	42	1,853
	APPROACH %	25%	51%	24%	42%	43%	15%	6%	87%	7%	5%	91%	5%	
	APP/DEPART	276	/	216	175	/	146	536	/	610	866	/	881	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	29	124	34	48	62	19	26	232	15	14	428	24	1,058
	APPROACH %	16%	66%	18%	37%	48%	15%	10%	85%	5%	3%	91%	5%	
	PEAK HR FACTOR		0.754			0.632			0.922			0.888		0.906
	APP/DEPART	187	/	174	129	/	91	273	/	317	469	/	476	0
PM	4:00 PM	7	4	8	12	6	3	3	153	9	9	76	8	298
	4:15 PM	3	7	5	9	6	3	4	144	10	8	93	5	297
	4:30 PM	3	4	8	6	3	2	2	133	11	4	75	8	259
	4:45 PM	3	1	4	10	6	2	2	193	5	9	87	6	328
	5:00 PM	3	3	10	11	3	1	6	163	10	17	93	9	329
	5:15 PM	5	2	6	8	9	3	4	205	16	14	100	2	374
	5:30 PM	5	5	7	12	5	1	4	149	11	12	103	6	320
	5:45 PM	11	4	7	15	1	3	3	173	12	7	105	5	346
	VOLUMES	40	30	55	83	39	18	28	1,313	84	80	732	49	2,551
	APPROACH %	32%	24%	44%	59%	28%	13%	2%	92%	6%	9%	85%	6%	
	APP/DEPART	125	/	107	140	/	198	1,425	/	1,456	861	/	790	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	16	11	27	41	23	7	16	710	42	50	383	23	1,351
	APPROACH %	30%	20%	50%	58%	32%	10%	2%	92%	5%	11%	84%	5%	
	PEAK HR FACTOR		0.794			0.888			0.853			0.946		0.903
	APP/DEPART	54	/	50	71	/	115	768	/	780	458	/	406	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	0	0
0	0	0	2	2
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	4	4
0	0	0	1	1
0	0	0	1	1
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	5	5

RTOR

NRR 0	SRR 0	ERR 0	WRR 0
5	1	2	2
0	2	2	4
1	2	0	1
3	4	2	1
1	2	0	1
1	0	4	0
5	0	0	1
5	0	0	0
21	11	10	10
5	10	4	7
5	1	1	2
2	2	3	1
6	1	1	1
3	0	0	2
3	1	0	1
3	0	4	0
2	0	1	0
2	1	0	1
26	6	10	8
11	1	5	3



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3418
5/10/22	NORTH & SOUTH:	Turner	LOCATION #:	4
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

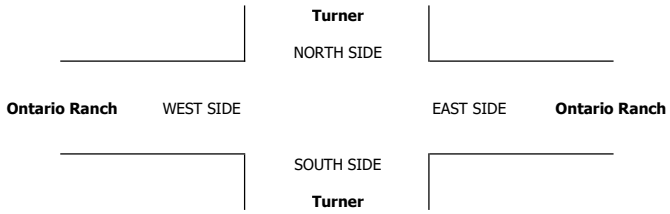
		NORTHBOUND Turner			SOUTHBOUND Turner			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	1	4	0	0	7	0	12
	7:15 AM	0	1	0	1	0	0	0	6	0	0	1	0	9
	7:30 AM	1	1	0	0	1	0	0	7	0	1	11	0	22
	7:45 AM	0	0	0	1	0	0	0	4	0	1	9	0	15
	8:00 AM	0	0	0	0	0	0	1	4	0	0	12	0	17
	8:15 AM	0	0	0	0	0	0	0	4	0	0	2	0	6
	8:30 AM	0	0	0	0	1	0	0	6	0	0	12	1	20
	8:45 AM	0	0	0	1	0	0	0	11	0	0	14	0	26
	VOLUMES	1	2	0	3	2	0	2	46	0	2	68	1	127
	APPROACH %	33%	67%	0%	60%	40%	0%	4%	96%	0%	3%	96%	1%	
	APP/DEPART	3	/	4	5	/	4	48	/	49	71	/	70	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	1	2	0	2	1	0	1	21	0	2	33	0	63
	APPROACH %	33%	67%	0%	67%	33%	0%	5%	95%	0%	6%	94%	0%	
	PEAK HR FACTOR		0.375			0.750			0.786			0.729		0.716
	APP/DEPART	3	/	3	3	/	3	22	/	23	35	/	34	0
PM	4:00 PM	0	0	0	1	0	0	1	13	0	0	5	0	20
	4:15 PM	0	0	0	0	0	0	0	12	0	0	3	0	15
	4:30 PM	0	0	1	0	1	0	1	12	0	0	4	0	19
	4:45 PM	0	0	0	0	0	0	0	9	1	0	5	0	15
	5:00 PM	0	0	0	0	1	0	0	5	0	0	3	0	9
	5:15 PM	0	0	0	0	0	0	0	6	0	0	5	0	11
	5:30 PM	0	0	0	0	0	0	0	11	0	1	1	1	14
	5:45 PM	0	0	0	0	0	0	0	3	1	0	1	1	6
	VOLUMES	0	0	1	1	2	0	2	71	2	1	27	2	109
	APPROACH %	0%	0%	100%	33%	67%	0%	3%	95%	3%	3%	90%	7%	
	APP/DEPART	1	/	2	3	/	5	75	/	73	30	/	29	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	1	0	0	31	1	1	14	1	49
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	97%	3%	6%	88%	6%	
	PEAK HR FACTOR		0.000			0.250			0.727			0.800		0.817
	APP/DEPART	0	/	1	1	/	3	32	/	31	16	/	14	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	1	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	1
0	0	0	0	1
0	0	1	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	2	0	2

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	1
0	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1	0	1	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3418
5/10/22	NORTH & SOUTH:	Turner	LOCATION #:	4
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

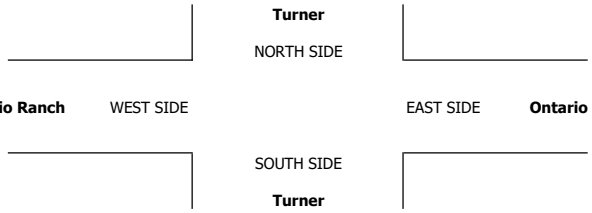
		NORTHBOUND Turner			SOUTHBOUND Turner			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	2	0	0	7	0	9
	7:15 AM	0	0	0	0	0	0	0	7	0	0	4	0	11
	7:30 AM	0	0	0	1	0	0	1	7	0	0	8	0	17
	7:45 AM	0	0	0	0	0	0	0	3	0	0	6	0	9
	8:00 AM	0	0	0	0	0	0	1	6	0	0	3	0	10
	8:15 AM	0	0	0	0	0	0	0	4	0	0	7	0	11
	8:30 AM	0	0	0	0	0	0	0	4	0	0	7	0	11
	8:45 AM	0	0	0	0	0	0	0	5	0	0	9	0	14
	VOLUMES	0	0	0	1	0	0	2	38	0	0	51	0	92
	APPROACH %	0%	0%	0%	100%	0%	0%	5%	95%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	1	/	0	40	/	39	51	/	53	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	1	0	0	0	23	0	0	21	0	47
	APPROACH %	0%	0%	0%	100%	0%	0%	0%	92%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.250			0.781			0.656		0.691
	APP/DEPART	0	/	0	1	/	0	25	/	24	21	/	23	0
PM	4:00 PM	0	0	0	0	0	0	0	4	0	0	2	0	6
	4:15 PM	0	0	0	0	0	0	0	3	0	0	4	0	7
	4:30 PM	0	0	0	0	0	0	0	1	0	0	4	0	5
	4:45 PM	0	0	0	0	0	0	0	5	0	0	5	0	10
	5:00 PM	0	0	0	0	0	0	0	9	0	0	2	0	11
	5:15 PM	0	0	0	0	0	1	0	8	0	0	0	0	9
	5:30 PM	0	0	0	0	0	0	0	8	0	0	3	0	11
	5:45 PM	0	0	0	0	0	0	0	3	0	0	3	0	6
	VOLUMES	0	0	0	0	0	1	0	41	0	0	23	0	65
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	1	/	0	41	/	41	23	/	24	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	0	1	0	30	0	0	10	0	41
	APPROACH %	0%	0%	0%	0%	0%	100%	0%	100%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.250			0.833			0.500		0.932
	APP/DEPART	0	/	0	1	/	0	30	/	30	10	/	11	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	1	0	1
0	0	0	0	0
0	0	1	0	1
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	2	0	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR 0	SRR 0	ERR 0	WRR 0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	1	0	0
0	0	0	0
0	0	0	0
0	1	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3418
5/10/22	NORTH & SOUTH:	Turner	LOCATION #:	4
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

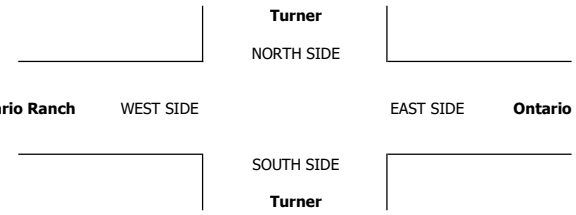
NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

		NORTHBOUND (Turner)			SOUTHBOUND (Turner)			EASTBOUND (Ontario Ranch)			WESTBOUND (Ontario Ranch)			
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	7	0	0	11	0	18
	7:15 AM	0	0	0	0	0	0	0	12	0	0	13	0	25
	7:30 AM	0	0	0	0	0	0	0	10	0	0	11	0	21
	7:45 AM	0	0	0	0	0	0	1	13	0	10	20	0	44
	8:00 AM	0	0	0	0	0	0	0	18	0	0	11	0	29
	8:15 AM	0	0	0	0	0	0	0	22	0	0	6	0	28
	8:30 AM	0	0	0	0	0	0	0	7	0	1	12	1	21
	8:45 AM	1	0	0	0	0	0	0	8	0	0	20	0	29
	VOLUMES	1	0	0	0	0	0	1	97	0	11	104	1	215
	APPROACH %	100%	0%	0%	0%	0%	0%	1%	99%	0%	9%	90%	1%	
	APP/DEPART	1	/	1	0	/	11	98	/	97	116	/	106	0
	BEGIN PEAK HR	7:15 AM												
	VOLUMES	0	0	0	0	0	0	0	53	0	10	55	0	119
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	98%	0%	15%	85%	0%	
	PEAK HR FACTOR		0.000			0.000			0.750			0.542		0.676
	APP/DEPART	0	/	0	0	/	10	54	/	53	65	/	56	0
PM	4:00 PM	0	0	0	0	0	0	0	5	0	0	9	0	14
	4:15 PM	0	0	0	0	0	0	0	10	0	0	18	0	28
	4:30 PM	0	0	0	0	0	0	0	10	0	0	11	0	21
	4:45 PM	0	0	0	0	0	0	0	9	0	0	17	0	26
	5:00 PM	0	0	0	0	0	0	0	11	0	0	23	0	34
	5:15 PM	0	0	0	0	0	0	0	8	0	0	16	0	24
	5:30 PM	0	0	0	0	1	0	0	9	0	0	12	0	22
	5:45 PM	0	0	0	0	0	0	0	5	0	0	13	0	18
	VOLUMES	0	0	0	0	1	0	0	67	0	0	119	0	187
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	1	/	1	67	/	67	119	/	119	0
	BEGIN PEAK HR	4:45 PM												
	VOLUMES	0	0	0	0	1	0	0	37	0	0	68	0	106
	APPROACH %	0%	0%	0%	0%	100%	0%	0%	100%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.250			0.841			0.739		0.779
	APP/DEPART	0	/	0	1	/	1	37	/	37	68	/	68	0

U-TURNS					
	NB	SB	EB	WB	TTL
AM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	1	0	1
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	1	0	1
PM	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0
	0	0	0	0	0

RTOR				
	NRR	SRR	ERR	WRR
	0	0	0	0
AM	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
PM	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0
	0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3418
5/10/22	NORTH & SOUTH:	Turner	LOCATION #:	4
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

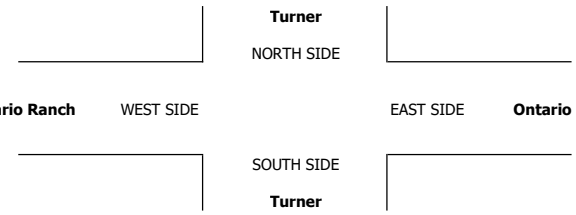
		NORTHBOUND (Turner)			SOUTHBOUND (Turner)			EASTBOUND (Ontario Ranch)			WESTBOUND (Ontario Ranch)			
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3418
5/10/22	NORTH & SOUTH:	Turner	LOCATION #:	4
TUESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

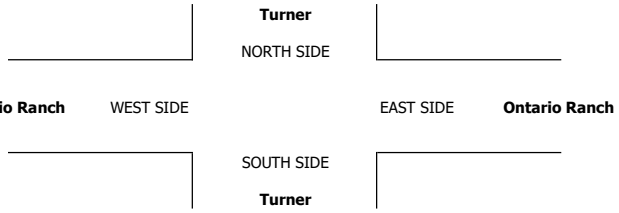
		NORTHBOUND Turner			SOUTHBOUND Turner			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 1	NT 1	NR 0	SL 1	ST 1	SR 0	EL 1	ET 2	ER 1	WL 1	WT 2	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	1	1	1	1	0	4
	7:15 AM	2	2	0	0	0	0	1	0	0	1	0	0	6
	7:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	8:00 AM	1	0	0	0	0	0	0	1	0	1	0	0	3
	8:15 AM	0	0	0	0	1	0	0	0	0	0	1	0	2
	8:30 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
	8:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	VOLUMES	3	2	1	0	1	0	1	3	1	3	4	0	19
	APPROACH %	50%	33%	17%	0%	100%	0%	20%	60%	20%	43%	57%	0%	
	APP/DEPART	6	/	3	1	/	5	5	/	4	7	/	7	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	3	2	0	0	0	0	1	2	0	2	1	0	11
	APPROACH %	60%	40%	0%	0%	0%	0%	33%	67%	0%	67%	33%	0%	
	PEAK HR FACTOR		0.313			0.000			0.750			0.750		0.458
	APP/DEPART	5	/	3	0	/	2	3	/	2	3	/	4	0
PM	4:00 PM	1	0	0	0	0	0	0	0	1	0	0	0	2
	4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	5:30 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	1	0	0	0	0	0	0	2	1	0	2	0	6
	APPROACH %	100%	0%	0%	0%	0%	0%	0%	67%	33%	0%	100%	0%	
	APP/DEPART	1	/	0	0	/	1	3	/	2	2	/	3	0
	BEGIN PEAK HR		4:45 PM											
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	PEAK HR FACTOR		0.000			0.000			0.250			0.250		0.500
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
1	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	1	0



INTERSECTION TURNING MOVEMENT COUNTS

T42321

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Wed, Apr 13, 22	LOCATION:	Ontario	PROJECT #: SC3380
	NORTH & SOUTH:	Haven	LOCATION #: 20
	EAST & WEST:	Ontario Ranch	CONTROL: SIGNAL

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

☑ Add U-Turns to Left Turns

		NORTHBOUND Haven			SOUTHBOUND Haven			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 2	WT 4	WR 1	TOTAL
AM	7:00 AM	4	49	26	35	26	9	26	97	3	18	122	32	447
	7:15 AM	13	64	34	32	43	15	17	118	3	21	94	42	496
	7:30 AM	7	100	26	39	31	10	20	111	5	17	118	45	529
	7:45 AM	8	52	25	53	41	12	27	93	5	13	76	29	434
	8:00 AM	3	59	24	63	61	11	35	110	4	18	108	22	518
	8:15 AM	5	49	23	35	56	12	19	109	6	21	93	31	459
	8:30 AM	5	53	13	26	36	10	12	104	6	28	81	26	400
	8:45 AM	8	59	9	30	37	15	19	85	5	22	78	28	395
	VOLUMES	53	485	180	313	331	94	175	827	37	158	770	255	3,678
	APPROACH %	7%	68%	25%	42%	45%	13%	17%	80%	4%	13%	65%	22%	
	APP/DEPART	718	/	944	738	/	522	1,039	/	1,295	1,183	/	917	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	31	275	109	187	176	48	99	432	17	69	396	138	1,977
	APPROACH %	7%	66%	26%	45%	43%	12%	18%	79%	3%	11%	66%	23%	
	PEAK HR FACTOR		0.780			0.761			0.919			0.838		0.934
	APP/DEPART	415	/	532	411	/	262	548	/	709	603	/	474	0
PM	4:00 PM	5	30	18	48	49	7	27	163	8	39	114	37	545
	4:15 PM	2	43	14	35	68	8	45	181	11	42	100	53	602
	4:30 PM	8	36	21	62	70	11	37	167	8	37	107	54	618
	4:45 PM	2	32	21	38	63	9	23	186	7	48	124	45	598
	5:00 PM	2	42	16	41	74	5	35	186	8	51	119	39	618
	5:15 PM	3	47	13	49	71	17	26	176	9	60	97	50	618
	5:30 PM	6	35	14	54	91	13	34	172	11	59	144	53	686
	5:45 PM	6	52	22	48	66	11	46	151	6	46	134	46	634
	VOLUMES	34	317	139	375	552	81	273	1,382	68	382	939	377	4,919
	APPROACH %	7%	65%	28%	37%	55%	8%	16%	80%	4%	22%	55%	22%	
	APP/DEPART	490	/	980	1,008	/	996	1,723	/	1,873	1,698	/	1,070	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	17	176	65	192	302	46	141	685	34	216	494	188	2,556
	APPROACH %	7%	68%	25%	36%	56%	9%	16%	80%	4%	24%	55%	21%	
	PEAK HR FACTOR		0.806			0.854			0.939			0.877		0.931
	APP/DEPART	258	/	514	540	/	546	860	/	930	898	/	566	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	
0	2	1	3	6
0	5	0	1	6
0	4	0	0	4
1	1	0	0	2
0	10	0	0	10
0	5	1	0	6
0	0	0	2	2
1	4	0	0	5
2	31	2	6	41
0	2	2	0	4
0	2	2	0	4
1	6	2	0	9
0	2	2	1	5
0	5	0	0	5
0	3	2	2	7
0	3	4	1	8
0	7	3	3	13
1	30	17	7	55

RTOR

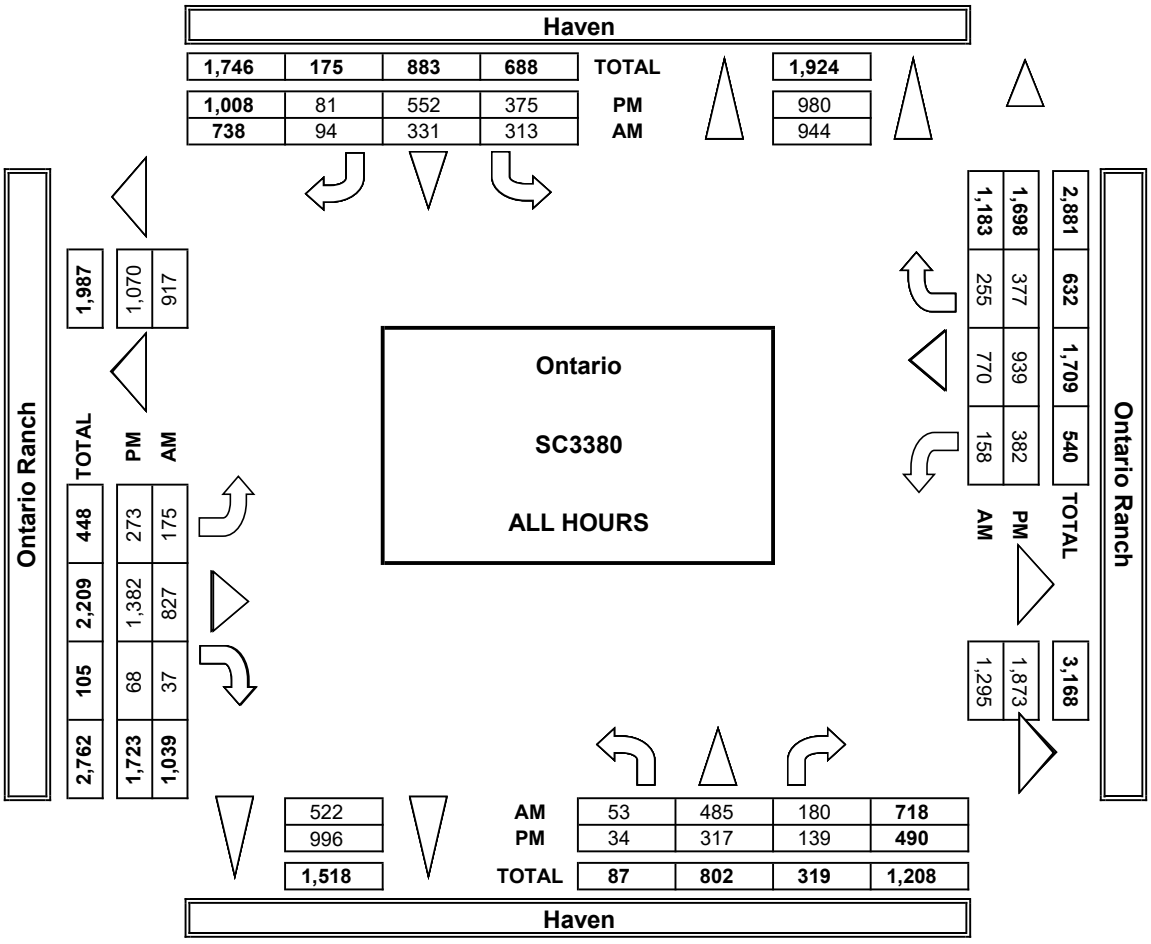
NRR	SRR	ERR	WRR
0	0	0	0
16	3	1	4
9	7	2	17
13	4	3	13
10	6	2	14
15	4	3	4
14	9	3	12
8	4	4	14
4	8	1	17
89	45	19	95
47	21	10	48
8	2	1	13
6	3	4	25
6	4	4	16
12	5	3	16
9	2	1	12
9	8	5	18
6	9	5	24
8	3	3	9
64	36	26	133
32	22	14	63

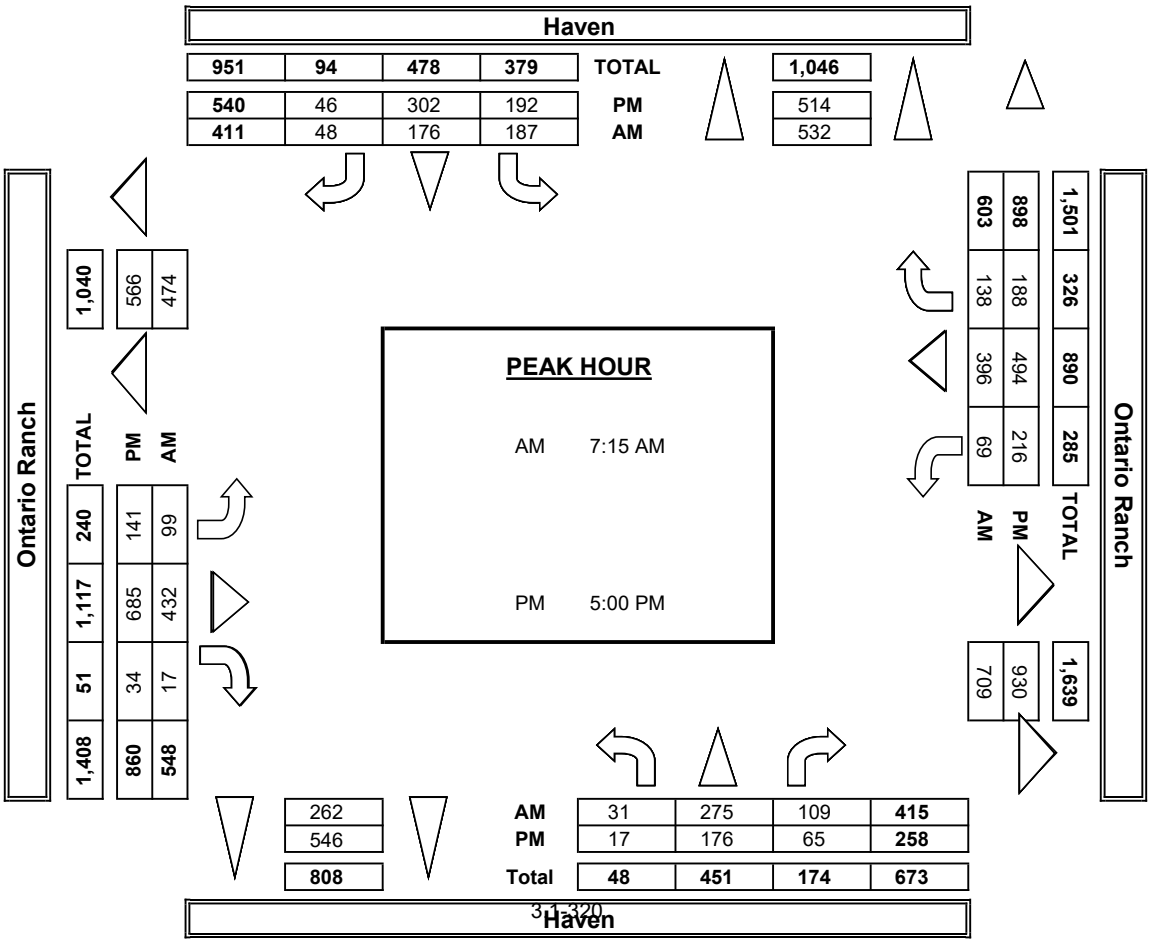


		ALL PED AND BIKE					PEDESTRIAN CROSSINGS					BICYCLE CROSSINGS				
		E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	E SIDE	W SIDE	S SIDE	N SIDE	TOTAL	ES	WS	SS	NS	TOTAL
AM	7:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	1	0	1
	7:15 AM	1	2	1	0	4	1	2	1	0	4	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	2	0	0	2	0	2	0	0	2	0	0	0	0	0
	8:00 AM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	3	0	2	5	0	2	0	1	3	0	1	0	1	2
	8:45 AM	2	1	2	0	5	2	1	2	0	5	0	0	0	0	0
	TOTAL	3	9	4	2	18	3	8	3	1	15	0	1	1	1	3
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	1	0	0	1	0	1	0	0	1	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	1	0	0	0	1	1	0	0	0	1	0	0	0	0	0
	5:15 PM	0	3	0	4	7	0	3	0	4	7	0	0	0	0	0
	5:30 PM	0	1	0	2	3	0	1	0	2	3	0	0	0	0	0
	5:45 PM	0	1	0	2	3	0	1	0	2	3	0	0	0	0	0
	TOTAL	1	6	0	8	15	1	6	0	8	15	0	0	0	0	0

AimTD LLC

TURNING MOVEMENT COUNTS





INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Haven	LOCATION #:	20
WEDNESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 1: PASSENGER VEHICLES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

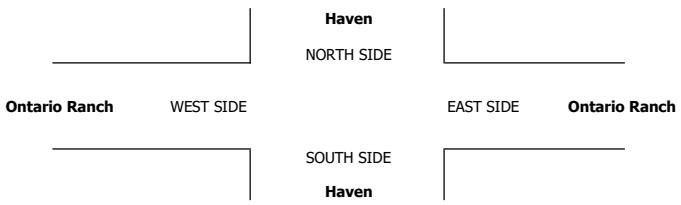
		NORTHBOUND (Haven)			SOUTHBOUND (Haven)			EASTBOUND (Ontario Ranch)			WESTBOUND (Ontario Ranch)			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 2	WT 4	WR 1	TOTAL
AM	7:00 AM	2	48	23	33	24	7	24	78	1	13	88	29	370
	7:15 AM	9	58	33	31	39	12	14	97	3	18	72	36	422
	7:30 AM	7	96	23	37	30	10	16	88	5	14	90	39	455
	7:45 AM	7	48	25	48	37	11	23	72	5	12	61	27	376
	8:00 AM	3	54	24	63	58	8	29	87	4	17	90	21	458
	8:15 AM	3	48	22	33	52	12	17	76	5	21	66	23	378
	8:30 AM	5	52	13	23	30	7	11	69	6	24	57	19	316
	8:45 AM	7	58	9	27	30	12	19	58	5	21	62	22	330
	VOLUMES	43	462	172	295	300	79	153	625	34	140	586	216	3,105
	APPROACH %	6%	68%	25%	44%	45%	12%	19%	77%	4%	15%	62%	23%	
	APP/DEPART	677	/	860	674	/	474	812	/	1,064	942	/	707	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	25	256	105	159	164	41	82	344	17	61	313	123	1,711
	APPROACH %	6%	66%	27%	41%	43%	11%	19%	78%	4%	12%	63%	25%	
	PEAK HR FACTOR		0.768			0.744			0.923			0.869		0.934
	APP/DEPART	387	/	481	384	/	243	443	/	608	497	/	379	0
PM	4:00 PM	3	28	15	46	49	6	23	136	8	37	84	36	471
	4:15 PM	1	42	14	34	67	6	43	153	11	41	84	50	546
	4:30 PM	8	32	19	60	67	10	35	141	8	35	93	51	559
	4:45 PM	2	30	19	37	60	9	20	172	7	46	101	43	546
	5:00 PM	2	42	15	39	72	5	33	164	8	50	95	39	564
	5:15 PM	3	45	13	47	69	17	24	161	9	55	81	49	573
	5:30 PM	5	34	12	52	90	12	33	146	10	57	125	50	626
	5:45 PM	6	50	19	47	65	11	44	136	6	45	116	42	587
	VOLUMES	30	303	126	362	539	76	255	1,209	67	366	779	360	4,472
	APPROACH %	7%	66%	27%	37%	55%	8%	17%	79%	4%	24%	52%	24%	
	APP/DEPART	459	/	939	977	/	969	1,531	/	1,671	1,505	/	893	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	16	171	59	167	296	45	129	607	33	204	417	180	2,350
	APPROACH %	7%	70%	24%	32%	56%	9%	17%	78%	4%	25%	52%	22%	
	PEAK HR FACTOR		0.820			0.854			0.944			0.866		0.938
	APP/DEPART	246	/	498	526	/	533	774	/	836	804	/	483	0

U-TURNS

NB	SB	EB	WB	TTL
0	2	0	1	3
0	5	0	0	5
0	4	0	0	4
1	1	0	0	2
0	10	0	0	10
0	4	1	0	5
0	0	0	1	1
1	4	0	0	5
2	30	1	2	35
0	2	0	0	2
0	2	1	0	3
1	6	1	0	8
0	2	2	1	5
0	5	0	0	5
0	3	0	0	3
0	3	3	1	7
0	7	2	2	11
1	30	9	4	44

RTOR

NRR 0	SRR 0	ERR 0	WRR 0
14	2	0	3
9	4	2	16
12	4	3	11
10	6	2	14
15	3	3	4
13	9	3	10
8	3	4	10
4	5	1	13
85	36	18	81
46	17	10	45
6	1	1	13
6	2	4	23
6	4	4	16
12	5	3	15
9	2	1	12
9	8	5	18
5	8	5	23
6	3	3	8
59	33	26	128
29	21	14	61



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Haven	LOCATION #:	20
WEDNESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 2: 2-AXLE WORK VEHICLES/ TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

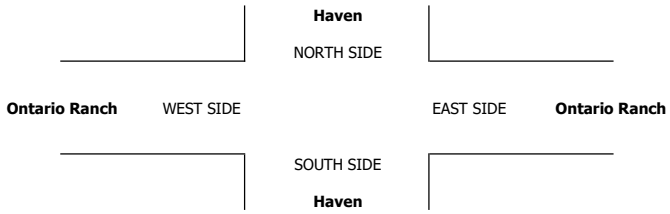
		NORTHBOUND Haven			SOUTHBOUND Haven			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 2	WT 4	WR 1	TOTAL
AM	7:00 AM	1	1	3	2	2	0	1	4	1	2	10	1	28
	7:15 AM	1	6	1	0	2	1	3	5	0	2	4	4	29
	7:30 AM	0	3	1	1	1	0	3	5	0	3	6	4	27
	7:45 AM	1	3	0	4	4	0	3	6	0	0	5	0	26
	8:00 AM	0	4	0	0	3	3	2	9	0	1	4	0	26
	8:15 AM	2	0	1	2	2	0	2	12	1	0	7	5	34
	8:30 AM	0	0	0	0	5	2	1	10	0	1	3	6	28
	8:45 AM	0	1	0	2	7	3	0	7	0	1	5	3	29
	VOLUMES	5	18	6	11	26	9	15	58	2	10	44	23	227
	APPROACH %	17%	62%	21%	24%	57%	20%	20%	77%	3%	13%	57%	30%	
	APP/DEPART	29	/	57	46	/	37	75	/	75	77	/	58	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	2	16	2	5	10	4	11	25	0	6	19	8	108
	APPROACH %	10%	80%	10%	26%	53%	21%	31%	69%	0%	18%	58%	24%	
	PEAK HR FACTOR		0.625			0.594			0.818			0.635		0.931
	APP/DEPART	20	/	35	19	/	16	36	/	32	33	/	25	0
PM	4:00 PM	1	2	2	1	0	1	2	7	0	1	8	1	26
	4:15 PM	0	1	0	1	1	2	1	12	0	1	5	3	27
	4:30 PM	0	3	2	2	2	1	1	10	0	2	2	3	28
	4:45 PM	0	1	1	1	3	0	2	5	0	2	7	2	24
	5:00 PM	0	0	1	2	1	0	1	6	0	1	7	0	19
	5:15 PM	0	2	0	1	2	0	0	8	0	2	4	1	20
	5:30 PM	1	0	2	2	1	1	0	6	1	2	6	3	25
	5:45 PM	0	2	3	1	1	0	1	6	0	0	2	4	20
	VOLUMES	2	11	11	11	11	5	8	60	1	11	41	17	189
	APPROACH %	8%	46%	46%	41%	41%	19%	12%	87%	1%	16%	59%	25%	
	APP/DEPART	24	/	36	27	/	23	69	/	82	69	/	48	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	1	4	6	6	5	1	2	26	1	5	19	8	84
	APPROACH %	9%	36%	55%	50%	42%	8%	7%	90%	3%	16%	59%	25%	
	PEAK HR FACTOR		0.550			0.750			0.906			0.727		0.840
	APP/DEPART	11	/	14	12	/	11	29	/	38	32	/	21	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	1	0	0	1
0	0	0	1	1
0	0	0	0	0
0	1	0	1	2
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
2	0	1	1
0	1	0	1
0	0	0	2
0	0	0	0
0	1	0	0
1	0	0	0
0	1	0	3
0	3	0	2
3	6	1	9
0	2	0	3
2	1	0	0
0	1	0	2
0	0	0	0
0	0	0	1
0	0	0	0
0	0	0	0
1	1	0	1
2	0	0	1
5	3	0	5
3	1	0	2



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Haven	LOCATION #:	20
WEDNESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 3: 3-AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

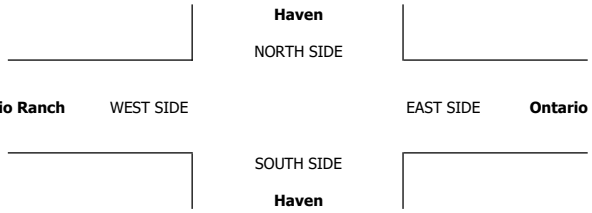
		NORTHBOUND Haven			SOUTHBOUND Haven			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 2	WT 4	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	1	0	2	0	1	8	1	13
	7:15 AM	2	0	0	1	1	1	0	5	0	0	8	1	19
	7:30 AM	0	1	1	0	0	0	0	6	0	0	6	2	16
	7:45 AM	0	0	0	0	0	1	0	1	0	0	2	1	5
	8:00 AM	0	0	0	0	0	0	0	5	0	0	6	1	12
	8:15 AM	0	1	0	0	1	0	0	11	0	0	5	3	21
	8:30 AM	0	1	0	2	1	0	0	16	0	0	3	1	24
	8:45 AM	0	0	0	0	0	0	0	10	0	0	5	3	18
	VOLUMES	2	3	1	3	3	3	0	56	0	1	43	13	128
	APPROACH %	33%	50%	17%	33%	33%	33%	0%	100%	0%	2%	75%	23%	
	APP/DEPART	6	/	16	9	/	4	56	/	60	57	/	48	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	2	1	1	1	1	2	0	17	0	0	22	5	52
	APPROACH %	50%	25%	25%	25%	25%	50%	0%	100%	0%	0%	81%	19%	
	PEAK HR FACTOR		0.500			0.333			0.708			0.750		0.684
	APP/DEPART	4	/	6	4	/	1	17	/	19	27	/	26	0
PM	4:00 PM	1	0	0	0	0	0	0	4	0	0	2	0	7
	4:15 PM	0	0	0	0	0	0	0	5	0	0	2	0	7
	4:30 PM	0	0	0	0	1	0	0	5	0	0	3	0	9
	4:45 PM	0	1	0	0	0	0	0	2	0	0	5	0	8
	5:00 PM	0	0	0	0	1	0	1	5	0	0	2	0	9
	5:15 PM	0	0	0	1	0	0	0	3	0	0	1	0	5
	5:30 PM	0	1	0	0	0	0	0	4	0	0	2	0	7
	5:45 PM	0	0	0	0	0	0	0	3	0	1	4	0	8
	VOLUMES	1	2	0	1	2	0	1	31	0	1	21	0	60
	APPROACH %	33%	67%	0%	33%	67%	0%	3%	97%	0%	5%	95%	0%	
	APP/DEPART	3	/	3	3	/	2	32	/	33	22	/	22	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	0	1	0	1	1	0	1	15	0	0	9	0	29
	APPROACH %	0%	100%	0%	50%	50%	0%	6%	94%	0%	0%	90%	0%	
	PEAK HR FACTOR		0.250			0.500			0.667			0.500		0.806
	APP/DEPART	1	/	2	2	/	1	16	/	17	10	/	9	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	1	1
0	0	0	1	1

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	1	0	0
0	1	0	0
1	0	0	0
0	0	0	0
0	0	0	0
0	0	0	2
0	0	0	1
0	0	0	2
1	2	0	5
1	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Haven	LOCATION #:	20
WEDNESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 4: 4 OR MORE AXLE TRUCKS

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

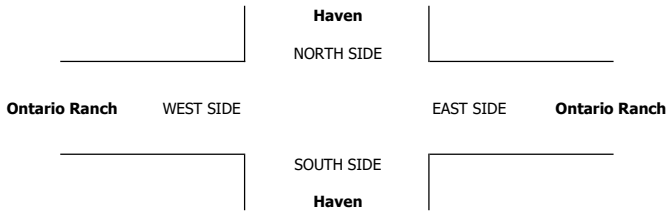
		NORTHBOUND (Haven)			SOUTHBOUND (Haven)			EASTBOUND (Ontario Ranch)			WESTBOUND (Ontario Ranch)			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 2	WT 4	WR 1	TOTAL
AM	7:00 AM	1	0	0	0	0	0	0	13	1	0	16	1	32
	7:15 AM	1	0	0	0	1	0	0	11	0	0	10	1	24
	7:30 AM	0	0	1	1	0	0	1	12	0	0	16	0	31
	7:45 AM	0	1	0	1	0	0	1	13	0	1	8	1	26
	8:00 AM	0	1	0	0	0	0	2	9	0	0	8	0	20
	8:15 AM	0	0	0	0	1	0	0	10	0	0	15	0	26
	8:30 AM	0	0	0	1	0	1	0	8	0	3	18	0	31
	8:45 AM	1	0	0	1	0	0	0	10	0	0	5	0	17
	VOLUMES	3	2	1	4	2	1	4	86	1	4	96	3	207
	APPROACH %	50%	33%	17%	57%	29%	14%	4%	95%	1%	4%	93%	3%	
	APP/DEPART	6	/	9	7	/	7	91	/	91	103	/	100	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	1	2	1	2	1	0	4	45	0	1	42	2	101
	APPROACH %	25%	50%	25%	67%	33%	0%	8%	92%	0%	2%	93%	4%	
	PEAK HR FACTOR		1.000			0.750			0.875			0.703		0.815
	APP/DEPART	4	/	8	3	/	2	49	/	48	45	/	43	0
PM	4:00 PM	0	0	1	1	0	0	0	16	0	1	20	0	39
	4:15 PM	1	0	0	0	0	0	0	10	0	0	9	0	20
	4:30 PM	0	1	0	0	0	0	0	11	0	0	9	0	21
	4:45 PM	0	0	1	0	0	0	1	7	0	0	10	0	19
	5:00 PM	0	0	0	0	0	0	0	11	0	0	15	0	26
	5:15 PM	0	0	0	0	0	0	0	4	0	1	11	0	16
	5:30 PM	0	0	0	0	0	0	0	16	0	0	11	0	27
	5:45 PM	0	0	0	0	0	0	1	6	0	0	12	0	19
	VOLUMES	1	1	2	1	0	0	2	81	0	2	97	0	187
	APPROACH %	25%	25%	50%	100%	0%	0%	2%	98%	0%	2%	98%	0%	
	APP/DEPART	4	/	2	1	/	2	83	/	84	99	/	99	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	0	0	0	0	0	0	0	37	0	1	49	0	88
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	97%	0%	2%	98%	0%	
	PEAK HR FACTOR		0.000			0.000			0.594			0.833		0.815
	APP/DEPART	0	/	0	0	/	1	38	/	37	50	/	50	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	1	0	1
0	0	1	0	1

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Haven	LOCATION #:	20
WEDNESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 5: RV

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

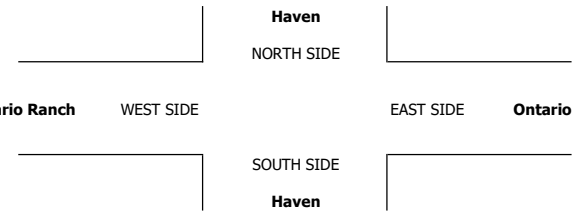
		NORTHBOUND (Haven)			SOUTHBOUND (Haven)			EASTBOUND (Ontario Ranch)			WESTBOUND (Ontario Ranch)			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 2	WT 4	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
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0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



INTERSECTION TURNING MOVEMENT COUNTS

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE:	LOCATION:	Ontario	PROJECT #:	SC3380
4/13/22	NORTH & SOUTH:	Haven	LOCATION #:	20
WEDNESDAY	EAST & WEST:	Ontario Ranch	CONTROL:	SIGNAL

CLASS 6: BUSES

NOTES:

AM / PM / MD / OTHER / OTHER — ▲ N, ◄ W, E ►, S ▼

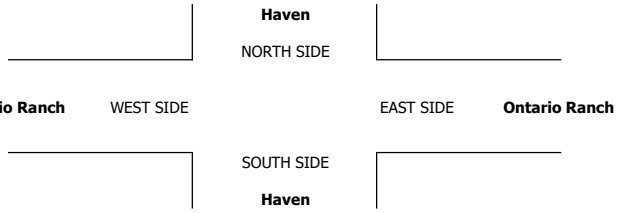
		NORTHBOUND Haven			SOUTHBOUND Haven			EASTBOUND Ontario Ranch			WESTBOUND Ontario Ranch			
	LANES:	NL 1	NT 1	NR 1	SL 1	ST 1	SR 1	EL 1	ET 3	ER 1	WL 2	WT 4	WR 1	TOTAL
AM	7:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	1
	7:15 AM	0	0	0	0	0	1	0	0	0	0	0	0	1
	7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	7:45 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	8:00 AM	0	0	0	0	0	0	2	0	0	0	0	0	2
	8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
	8:30 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
	8:45 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
	VOLUMES	0	0	0	0	0	2	2	2	0	0	1	0	7
	APPROACH %	0%	0%	0%	0%	0%	100%	50%	50%	0%	0%	100%	0%	
	APP/DEPART	0	/	2	2	/	0	4	/	2	1	/	3	0
	BEGIN PEAK HR		7:15 AM											
	VOLUMES	0	0	0	0	0	1	2	1	0	0	0	0	4
	APPROACH %	0%	0%	0%	0%	0%	100%	67%	33%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.250			0.375			0.000		0.500
	APP/DEPART	0	/	2	1	/	0	3	/	1	0	/	1	0
PM	4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:15 PM	0	0	0	0	0	0	0	1	0	0	0	0	1
	4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	4:45 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
	5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
	VOLUMES	0	0	0	0	0	0	0	1	0	0	1	0	2
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	100%	0%	0%	100%	0%	
	APP/DEPART	0	/	0	0	/	0	1	/	1	1	/	1	0
	BEGIN PEAK HR		5:00 PM											
	VOLUMES	0	0	0	0	0	0	0	0	0	0	0	0	0
	APPROACH %	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	
	PEAK HR FACTOR		0.000			0.000			0.000			0.000		0.000
	APP/DEPART	0	/	0	0	/	0	0	/	0	0	/	0	0

U-TURNS

NB	SB	EB	WB	TTL
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
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0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0
0	0	0	0	0

RTOR

NRR	SRR	ERR	WRR
0	0	0	0
0	0	0	0
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	1	0	0
0	1	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0
0	0	0	0



Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

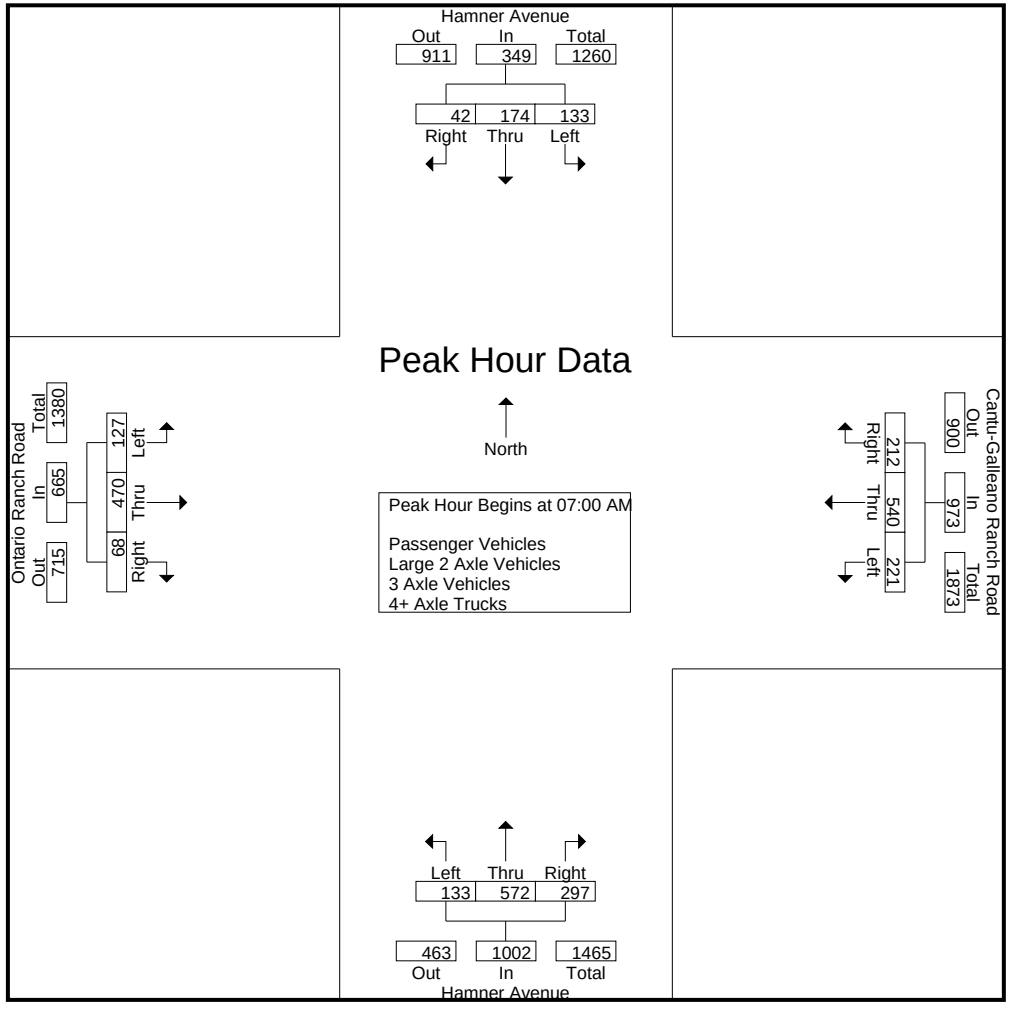
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	42	65	14	5	121	53	146	48	21	247	34	134	80	33	248	15	106	14	2	135	61	751	812
07:15 AM	41	27	5	3	73	53	129	59	13	241	22	114	67	23	203	19	134	17	1	170	40	687	727
07:30 AM	24	42	10	7	76	57	143	45	10	245	43	152	84	35	279	53	110	14	7	177	59	777	836
07:45 AM	26	40	13	1	79	58	122	60	24	240	34	172	66	27	272	40	120	23	2	183	54	774	828
Total	133	174	42	16	349	221	540	212	68	973	133	572	297	118	1002	127	470	68	12	665	214	2989	3203
08:00 AM	25	69	7	0	101	73	93	60	30	226	35	157	47	18	239	34	105	36	9	175	57	741	798
08:15 AM	22	48	9	7	79	59	131	66	23	256	29	131	51	24	211	39	96	14	1	149	55	695	750
08:30 AM	31	51	15	6	97	56	115	58	15	229	38	155	67	27	260	28	87	29	8	144	56	730	786
08:45 AM	13	44	10	5	67	68	97	54	16	219	39	95	58	21	192	19	61	24	6	104	48	582	630
Total	91	212	41	18	344	256	436	238	84	930	141	538	223	90	902	120	349	103	24	572	216	2748	2964
Grand Total	224	386	83	34	693	477	976	450	152	1903	274	1110	520	208	1904	247	819	171	36	1237	430	5737	6167
Apprch %	32.3	55.7	12			25.1	51.3	23.6			14.4	58.3	27.3			20	66.2	13.8					
Total %	3.9	6.7	1.4		12.1	8.3	17	7.8		33.2	4.8	19.3	9.1		33.2	4.3	14.3	3		21.6	7	93	
Passenger Vehicles	182	357	51		609	434	802	394		1765	256	1073	504		2035	224	674	164		1098	0	0	5507
% Passenger Vehicles	81.2	92.5	61.4	55.9	83.8	91	82.2	87.6	88.8	85.9	93.4	96.7	96.9	97.1	96.4	90.7	82.3	95.9	100	86.3	0	0	89.3
Large 2 Axle Vehicles	6	14	7		33	24	55	12		97	7	19	3		31	7	25	5		37	0	0	198
% Large 2 Axle Vehicles	2.7	3.6	8.4	17.6	4.5	5	5.6	2.7	3.9	4.7	2.6	1.7	0.6	1	1.5	2.8	3.1	2.9	0	2.9	0	0	3.2
3 Axle Vehicles	8	9	6		28	12	42	6		61	2	10	6		20	3	31	1		35	0	0	144
% 3 Axle Vehicles	3.6	2.3	7.2	14.7	3.9	2.5	4.3	1.3	0.7	3	0.7	0.9	1.2	1	0.9	1.2	3.8	0.6	0	2.7	0	0	2.3
4+ Axle Trucks	28	6	19		57	7	77	38		132	9	8	7		26	13	89	1		103	0	0	318
% 4+ Axle Trucks	12.5	1.6	22.9	11.8	7.8	1.5	7.9	8.4	6.6	6.4	3.3	0.7	1.3	1	1.2	5.3	10.9	0.6	0	8.1	0	0	5.2

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	**42**	**65**	**14**	**121**	53	**146**	48	**247**	34	134	80	248	15	106	14	135	751
07:15 AM	41	27	5	73	53	129	59	241	22	114	67	203	19	**134**	17	170	687
07:30 AM	24	42	10	76	57	143	45	245	**43**	152	**84**	**279**	**53**	110	14	177	**777**
07:45 AM	26	40	13	79	**58**	122	**60**	240	34	**172**	66	272	40	120	**23**	**183**	774
Total Volume	133	174	42	349	221	540	212	973	133	572	297	1002	127	470	68	665	2989
% App. Total	38.1	49.9	12		22.7	55.5	21.8		13.3	57.1	29.6		19.1	70.7	10.2		
PHF	.792	.669	.750	.721	.953	.925	.883	.985	.773	.831	.884	.898	.599	.877	.739	.908	.962

Counts Unlimited, Inc.
PO Box 1178
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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:45 AM				07:00 AM				07:00 AM				07:15 AM				
+0 mins.	26	40	13	79	53	**146**	48	**247**	34	134	80	248	19	**134**	17	170	
+15 mins.	25	**69**	7	**101**	53	129	59	241	22	114	67	203	**53**	110	14	177	
+30 mins.	22	48	9	79	57	143	45	245	**43**	152	**84**	**279**	40	120	23	**183**	
+45 mins.	**31**	51	**15**	97	**58**	122	**60**	240	34	**172**	66	272	34	105	**36**	175	
Total Volume	104	208	44	356	221	540	212	973	133	572	297	1002	146	469	90	705	
% App. Total	29.2	58.4	12.4		22.7	55.5	21.8		13.3	57.1	29.6		20.7	66.5	12.8		
PHF	.839	.754	.733	.881	.953	.925	.883	.985	.773	.831	.884	.898	.689	.875	.625	.963	

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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles

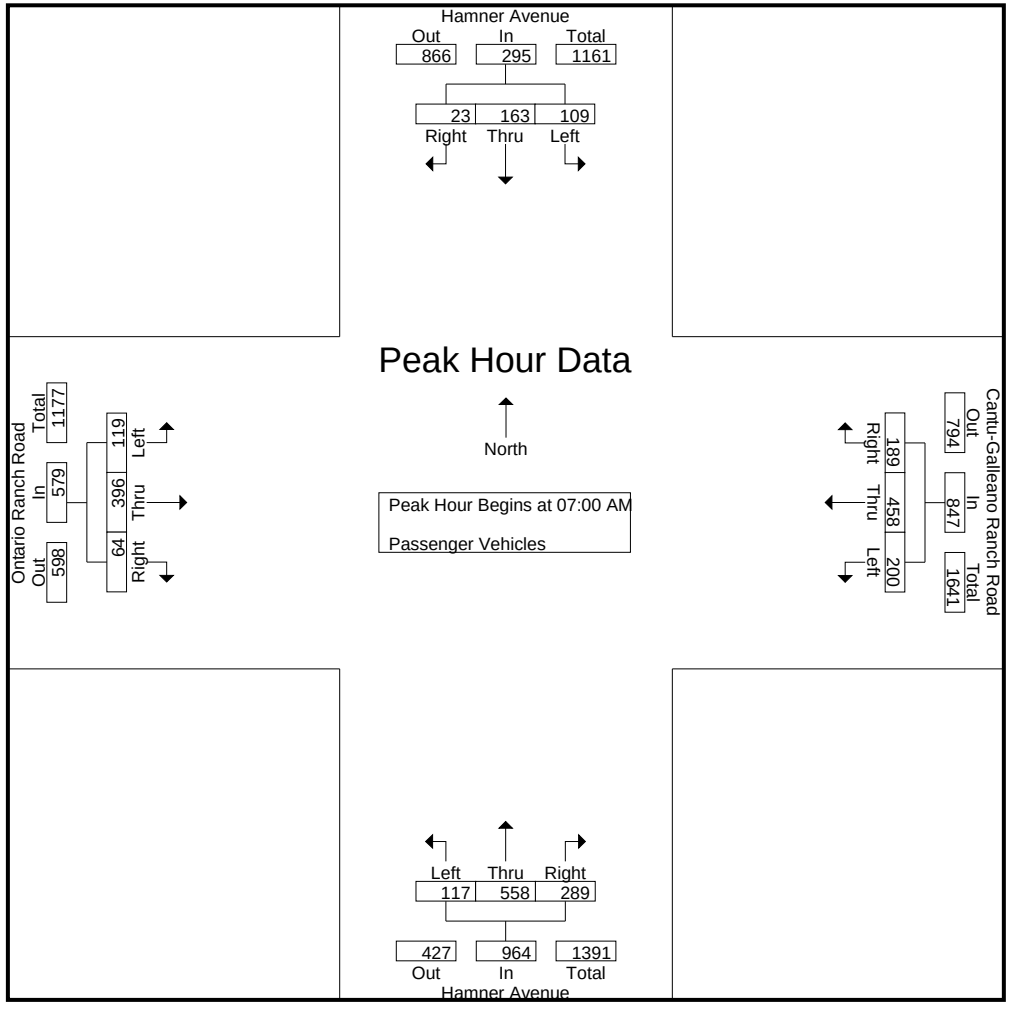
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	32	62	10	3	104	45	128	43	19	216	33	128	79	33	240	13	94	13	2	120	57	680	737
07:15 AM	35	25	2	1	62	44	110	53	10	207	21	112	65	23	198	18	110	16	1	144	35	611	646
07:30 AM	22	40	5	3	67	55	121	39	7	215	41	148	81	34	270	49	89	13	7	151	51	703	754
07:45 AM	20	36	6	0	62	56	99	54	22	209	22	170	64	27	256	39	103	22	2	164	51	691	742
Total	109	163	23	7	295	200	458	189	58	847	117	558	289	117	964	119	396	64	12	579	194	2685	2879
08:00 AM	22	66	6	0	94	65	75	51	28	191	35	152	46	18	233	30	88	35	9	153	55	671	726
08:15 AM	17	42	7	6	66	56	111	57	21	224	29	123	48	22	200	34	70	14	1	118	50	608	658
08:30 AM	22	47	11	4	80	51	83	50	13	184	37	151	65	25	253	26	71	28	8	125	50	642	692
08:45 AM	12	39	4	2	55	62	75	47	15	184	38	89	56	20	183	15	49	23	6	87	43	509	552
Total	73	194	28	12	295	234	344	205	77	783	139	515	215	85	869	105	278	100	24	483	198	2430	2628
Grand Total	182	357	51	19	590	434	802	394	135	1630	256	1073	504	202	1833	224	674	164	36	1062	392	5115	5507
Apprch %	30.8	60.5	8.6			26.6	49.2	24.2			14	58.5	27.5			21.1	63.5	15.4					
Total %	3.6	7	1		11.5	8.5	15.7	7.7		31.9	5	21	9.9		35.8	4.4	13.2	3.2		20.8	7.1	92.9	

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	32	**62**	**10**	**104**	45	**128**	43	**216**	33	128	79	240	13	94	13	120	680
07:15 AM	**35**	25	2	62	44	110	53	207	21	112	65	198	18	**110**	16	144	611
07:30 AM	22	40	5	67	55	121	39	215	**41**	148	**81**	**270**	**49**	89	13	151	**703**
07:45 AM	20	36	6	62	**56**	99	**54**	209	22	**170**	64	256	39	103	**22**	**164**	691
Total Volume	109	163	23	295	200	458	189	847	117	558	289	964	119	396	64	579	2685
% App. Total	36.9	55.3	7.8		23.6	54.1	22.3		12.1	57.9	30		20.6	68.4	11.1		
PHF	.779	.657	.575	.709	.893	.895	.875	.980	.713	.821	.892	.893	.607	.900	.727	.883	.955

Counts Unlimited, Inc.
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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:00 AM				07:00 AM				07:00 AM				07:00 AM				
+0 mins.	32	**62**	**10**	**104**	45	**128**	43	**216**	33	128	79	240	13	94	13	120	
+15 mins.	**35**	25	2	62	44	110	53	207	21	112	65	198	18	**110**	16	144	
+30 mins.	22	40	5	67	55	121	39	215	**41**	148	**81**	**270**	**49**	89	13	151	
+45 mins.	20	36	6	62	**56**	99	**54**	209	22	**170**	64	256	39	103	**22**	**164**	
Total Volume	109	163	23	295	200	458	189	847	117	558	289	964	119	396	64	579	
% App. Total	36.9	55.3	7.8		23.6	54.1	22.3		12.1	57.9	30		20.6	68.4	11.1		
PHF	.779	.657	.575	.709	.893	.895	.875	.980	.713	.821	.892	.893	.607	.900	.727	.883	

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City of Ontario
N/S: Hamner Avenue
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Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

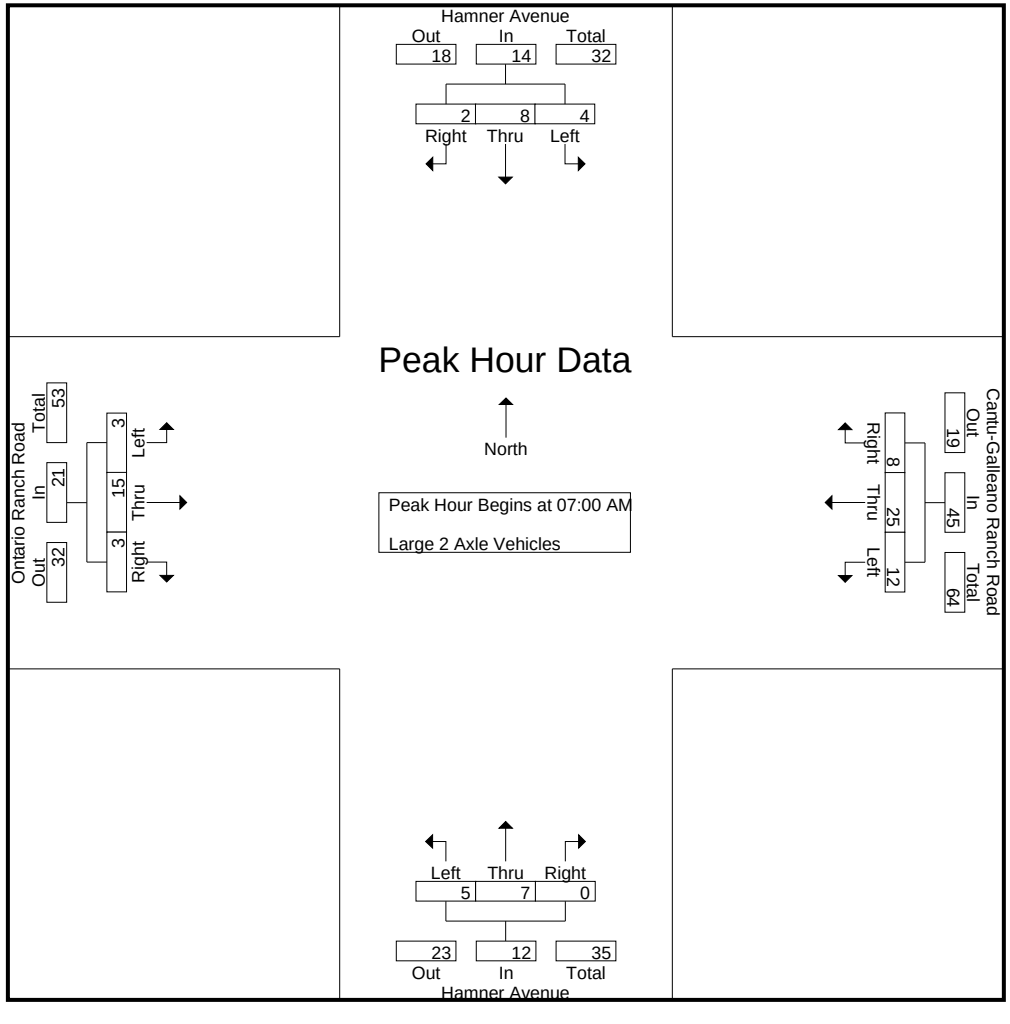
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	1	2	1	1	4	6	5	2	2	13	0	4	0	0	4	0	0	1	0	1	3	22	25
07:15 AM	0	1	0	0	1	2	4	4	2	10	1	1	0	0	2	1	7	1	0	9	2	22	24
07:30 AM	0	2	0	0	2	2	8	0	0	10	2	1	0	0	3	1	5	1	0	7	0	22	22
07:45 AM	3	3	1	1	7	2	8	2	0	12	2	1	0	0	3	1	3	0	0	4	1	26	27
Total	4	8	2	2	14	12	25	8	4	45	5	7	0	0	12	3	15	3	0	21	6	92	98
08:00 AM	0	1	0	0	1	4	7	1	0	12	0	4	1	0	5	1	2	0	0	3	0	21	21
08:15 AM	0	2	0	0	2	1	8	2	1	11	0	3	0	0	3	1	1	0	0	2	1	18	19
08:30 AM	2	2	1	1	5	2	8	1	1	11	1	2	1	1	4	0	4	1	0	5	3	25	28
08:45 AM	0	1	4	3	5	5	7	0	0	12	1	3	1	1	5	2	3	1	0	6	4	28	32
Total	2	6	5	4	13	12	30	4	2	46	2	12	3	2	17	4	10	2	0	16	8	92	100
Grand Total	6	14	7	6	27	24	55	12	6	91	7	19	3	2	29	7	25	5	0	37	14	184	198
Apprch %	22.2	51.9	25.9			26.4	60.4	13.2			24.1	65.5	10.3			18.9	67.6	13.5					
Total %	3.3	7.6	3.8		14.7	13	29.9	6.5		49.5	3.8	10.3	1.6		15.8	3.8	13.6	2.7		20.1	7.1	92.9	

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	1	2	**1**	4	**6**	5	2	**13**	0	**4**	0	**4**	0	0	**1**	1	22
07:15 AM	0	1	0	1	2	4	**4**	10	1	1	0	2	**1**	**7**	1	**9**	22
07:30 AM	0	2	0	2	2	**8**	0	10	**2**	1	0	3	1	5	1	7	22
07:45 AM	**3**	**3**	1	**7**	2	8	2	12	2	1	0	3	1	3	0	4	**26**
Total Volume	4	8	2	14	12	25	8	45	5	7	0	12	3	15	3	21	92
% App. Total	28.6	57.1	14.3		26.7	55.6	17.8		41.7	58.3	0		14.3	71.4	14.3		
PHF	.333	.667	.500	.500	.500	.781	.500	.865	.625	.438	.000	.750	.750	.536	.750	.583	.885

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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:00 AM				07:00 AM				07:00 AM				07:00 AM				
+0 mins.	1	2	**1**	4	**6**	5	2	**13**	0	**4**	0	**4**	0	0	**1**	1	
+15 mins.	0	1	0	1	2	4	**4**	10	1	1	0	2	**1**	**7**	1	**9**	
+30 mins.	0	2	0	2	2	**8**	0	10	**2**	1	0	3	1	5	1	7	
+45 mins.	**3**	**3**	1	**7**	2	8	2	12	2	1	0	3	1	3	0	4	
Total Volume	4	8	2	14	12	25	8	45	5	7	0	12	3	15	3	21	
% App. Total	28.6	57.1	14.3		26.7	55.6	17.8		41.7	58.3	0		14.3	71.4	14.3		
PHF	.333	.667	.500	.500	.500	.781	.500	.865	.625	.438	.000	.750	.750	.536	.750	.583	

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City of Ontario
N/S: Hamner Avenue
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Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

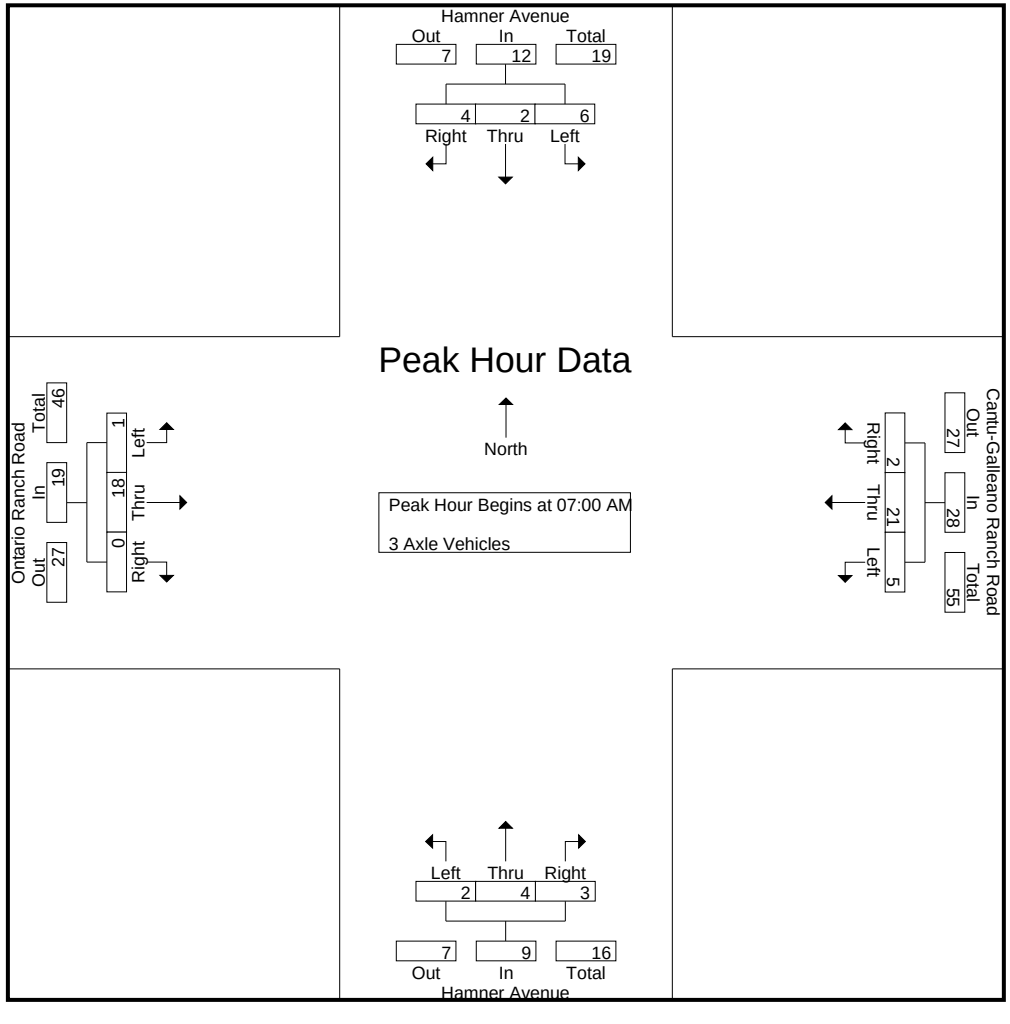
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	5	1	1	1	7	1	8	0	0	9	1	2	1	0	4	0	4	0	0	4	1	24	25
07:15 AM	1	0	0	0	1	4	2	1	0	7	0	1	0	0	1	0	5	0	0	5	0	14	14
07:30 AM	0	0	2	2	2	0	3	1	1	4	0	1	0	0	1	1	5	0	0	6	3	13	16
07:45 AM	0	1	1	0	2	0	8	0	0	8	1	0	2	0	3	0	4	0	0	4	0	17	17
Total	6	2	4	3	12	5	21	2	1	28	2	4	3	0	9	1	18	0	0	19	4	68	72
08:00 AM	0	1	0	0	1	3	4	1	0	8	0	1	0	0	1	0	2	1	0	3	0	13	13
08:15 AM	0	3	1	1	4	1	4	2	0	7	0	3	1	1	4	0	6	0	0	6	2	21	23
08:30 AM	2	0	1	1	3	3	9	0	0	12	0	0	1	1	1	1	3	0	0	4	2	20	22
08:45 AM	0	3	0	0	3	0	4	1	0	5	0	2	1	0	3	1	2	0	0	3	0	14	14
Total	2	7	2	2	11	7	21	4	0	32	0	6	3	2	9	2	13	1	0	16	4	68	72
Grand Total	8	9	6	5	23	12	42	6	1	60	2	10	6	2	18	3	31	1	0	35	8	136	144
Apprch %	34.8	39.1	26.1			20	70	10			11.1	55.6	33.3			8.6	88.6	2.9					
Total %	5.9	6.6	4.4		16.9	8.8	30.9	4.4		44.1	1.5	7.4	4.4		13.2	2.2	22.8	0.7		25.7	5.6	94.4	

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	**5**	**1**	1	**7**	1	**8**	0	**9**	**1**	**2**	1	**4**	0	4	0	4	**24**
07:15 AM	1	0	0	1	**4**	2	**1**	7	0	1	0	1	0	**5**	0	5	14
07:30 AM	0	0	**2**	2	0	3	1	4	0	1	0	1	**1**	5	0	**6**	13
07:45 AM	0	1	1	2	0	8	0	8	1	0	**2**	3	0	4	0	4	17
Total Volume	6	2	4	12	5	21	2	28	2	4	3	9	1	18	0	19	68
% App. Total	50	16.7	33.3		17.9	75	7.1		22.2	44.4	33.3		5.3	94.7	0		
PHF	.300	.500	.500	.429	.313	.656	.500	.778	.500	.500	.375	.563	.250	.900	.000	.792	.708

Counts Unlimited, Inc.
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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:00 AM				07:00 AM				07:00 AM				07:00 AM				
+0 mins.	**5**	**1**	1	**7**	1	**8**	0	**9**	**1**	**2**	1	**4**	0	4	0	4	
+15 mins.	1	0	0	1	**4**	2	**1**	7	0	1	0	1	0	**5**	0	5	
+30 mins.	0	0	**2**	2	0	3	1	4	0	1	0	1	**1**	5	0	**6**	
+45 mins.	0	1	1	2	0	8	0	8	1	0	**2**	3	0	4	0	4	
Total Volume	6	2	4	12	5	21	2	28	2	4	3	9	1	18	0	19	
% App. Total	50	16.7	33.3		17.9	75	7.1		22.2	44.4	33.3		5.3	94.7	0		
PHF	.300	.500	.500	.429	.313	.656	.500	.778	.500	.500	.375	.563	.250	.900	.000	.792	

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City of Ontario
N/S: Hamner Avenue
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File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

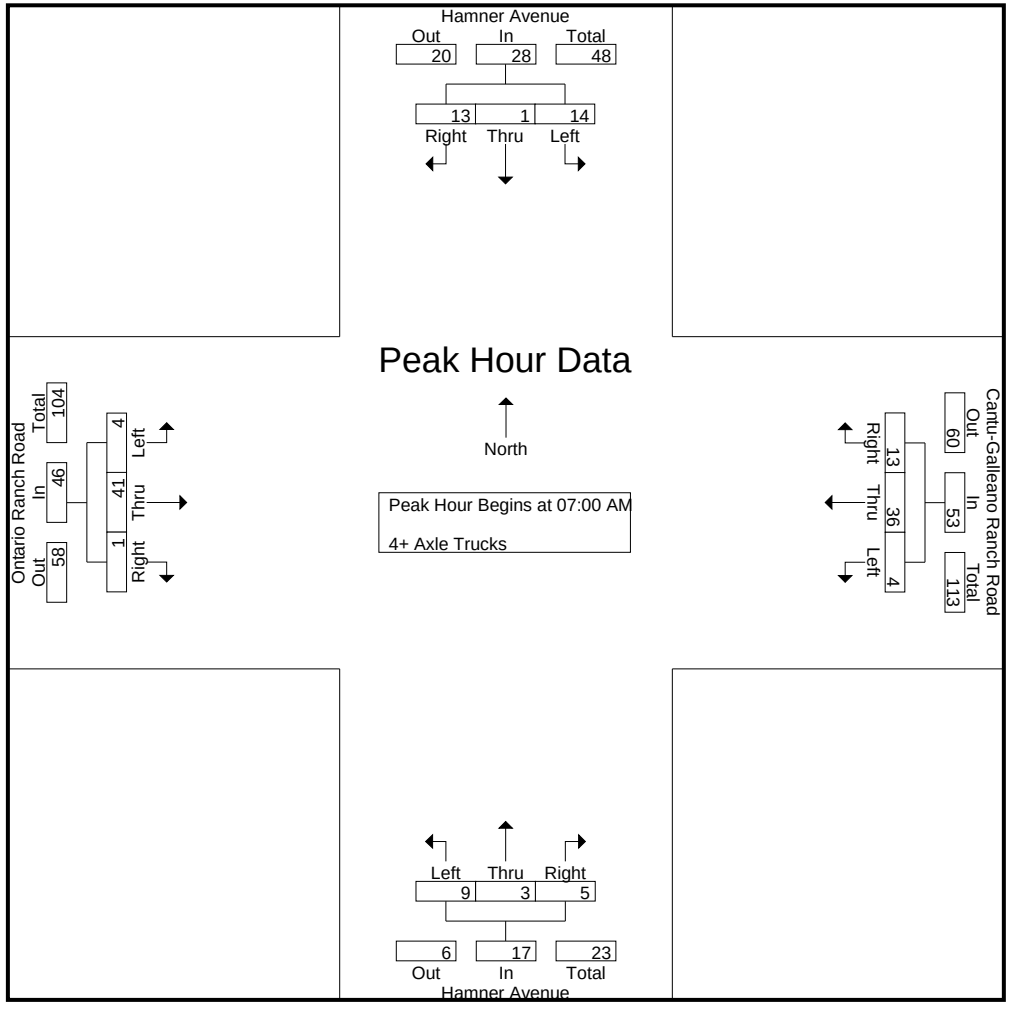
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	4	0	2	0	6	1	5	3	0	9	0	0	0	0	0	2	8	0	0	10	0	25	25
07:15 AM	5	1	3	2	9	3	13	1	1	17	0	0	2	0	2	0	12	0	0	12	3	40	43
07:30 AM	2	0	3	2	5	0	11	5	2	16	0	2	3	1	5	2	11	0	0	13	5	39	44
07:45 AM	3	0	5	0	8	0	7	4	2	11	9	1	0	0	10	0	10	1	0	11	2	40	42
Total	14	1	13	4	28	4	36	13	5	53	9	3	5	1	17	4	41	1	0	46	10	144	154
08:00 AM	3	1	1	0	5	1	7	7	2	15	0	0	0	0	0	3	13	0	0	16	2	36	38
08:15 AM	5	1	1	0	7	1	8	5	1	14	0	2	2	1	4	4	19	0	0	23	2	48	50
08:30 AM	5	2	2	0	9	0	15	7	1	22	0	2	0	0	2	1	9	0	0	10	1	43	44
08:45 AM	1	1	2	0	4	1	11	6	1	18	0	1	0	0	1	1	7	0	0	8	1	31	32
Total	14	5	6	0	25	3	41	25	5	69	0	5	2	1	7	9	48	0	0	57	6	158	164
Grand Total	28	6	19	4	53	7	77	38	10	122	9	8	7	2	24	13	89	1	0	103	16	302	318
Apprch %	52.8	11.3	35.8			5.7	63.1	31.1			37.5	33.3	29.2			12.6	86.4	1					
Total %	9.3	2	6.3		17.5	2.3	25.5	12.6		40.4	3	2.6	2.3		7.9	4.3	29.5	0.3		34.1	5	95	

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	4	0	2	6	1	5	3	9	0	0	0	0	**2**	8	0	10	25
07:15 AM	**5**	**1**	3	**9**	**3**	**13**	1	**17**	0	0	2	2	0	**12**	0	12	**40**
07:30 AM	2	0	3	5	0	11	**5**	16	0	**2**	**3**	5	2	11	0	**13**	39
07:45 AM	3	0	**5**	8	0	7	4	11	**9**	1	0	**10**	0	10	**1**	11	40
Total Volume	14	1	13	28	4	36	13	53	9	3	5	17	4	41	1	46	144
% App. Total	50	3.6	46.4		7.5	67.9	24.5		52.9	17.6	29.4		8.7	89.1	2.2		
PHF	.700	.250	.650	.778	.333	.692	.650	.779	.250	.375	.417	.425	.500	.854	.250	.885	.900

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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Hamner Avenue
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File Name : 05_ONT_Ham_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:00 AM				07:00 AM				07:00 AM				07:00 AM				
+0 mins.	4	0	2	6	1	5	3	9	0	0	0	0	**2**	8	0	10	
+15 mins.	**5**	**1**	3	**9**	**3**	**13**	1	**17**	0	0	2	2	0	**12**	0	12	
+30 mins.	2	0	3	5	0	11	**5**	16	0	**2**	**3**	5	2	11	0	**13**	
+45 mins.	3	0	**5**	8	0	7	4	11	**9**	1	0	**10**	0	10	**1**	11	
Total Volume	14	1	13	28	4	36	13	53	9	3	5	17	4	41	1	46	
% App. Total	50	3.6	46.4		7.5	67.9	24.5		52.9	17.6	29.4		8.7	89.1	2.2		
PHF	.700	.250	.650	.778	.333	.692	.650	.779	.250	.375	.417	.425	.500	.854	.250	.885	

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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

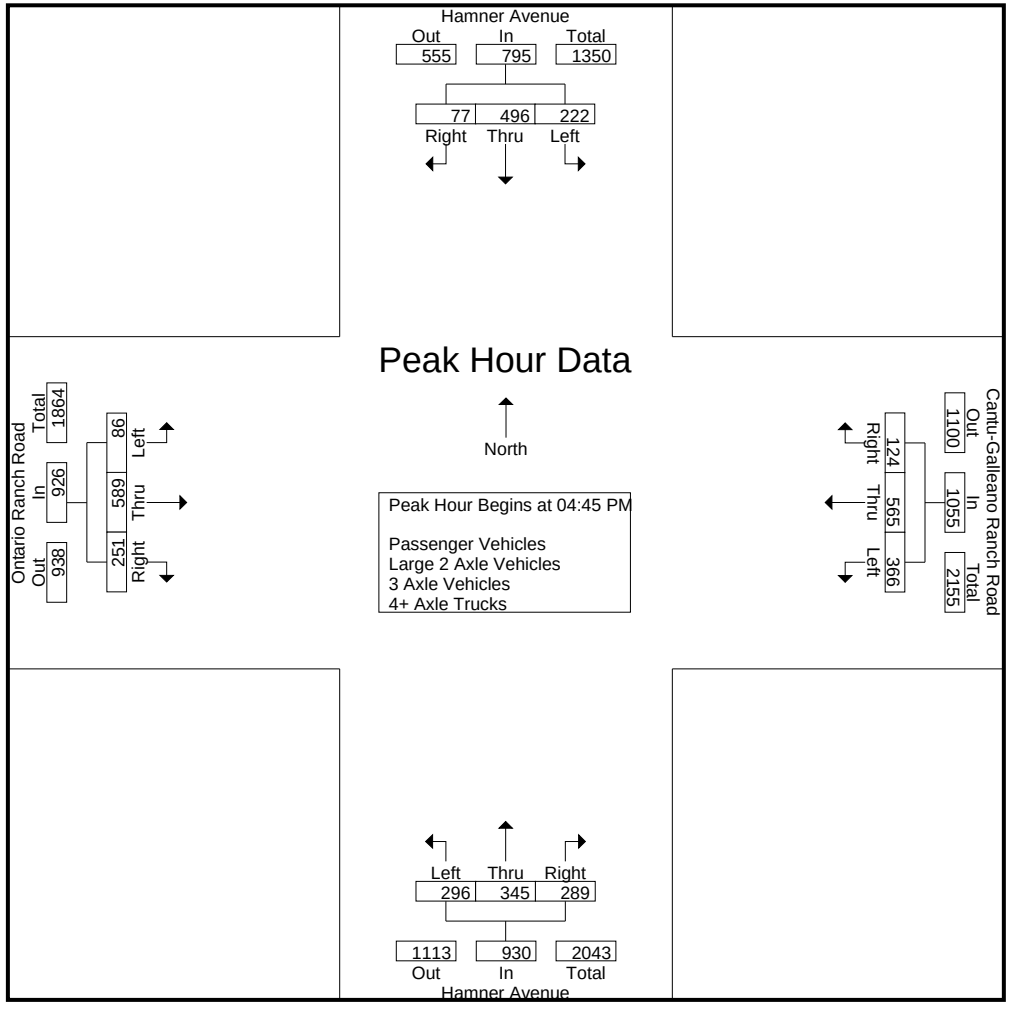
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	55	96	14	0	165	72	82	40	18	194	64	123	53	21	240	19	172	43	3	234	42	833	875
04:15 PM	40	102	8	2	150	103	111	32	17	246	64	84	62	13	210	16	128	55	7	199	39	805	844
04:30 PM	57	124	14	4	195	87	90	33	12	210	72	119	68	17	259	21	119	41	9	181	42	845	887
04:45 PM	62	107	14	4	183	94	147	35	13	276	82	91	83	21	256	21	156	78	22	255	60	970	1030
Total	214	429	50	10	693	356	430	140	60	926	282	417	266	72	965	77	575	217	41	869	183	3453	3636
05:00 PM	46	120	27	10	193	78	140	29	14	247	60	62	77	25	199	28	147	51	10	226	59	865	924
05:15 PM	56	158	20	11	234	100	134	17	8	251	84	93	72	15	249	13	133	57	9	203	43	937	980
05:30 PM	58	111	16	14	185	94	144	43	28	281	70	99	57	19	226	24	153	65	13	242	74	934	1008
05:45 PM	57	156	36	11	249	100	149	20	5	269	54	98	54	22	206	14	146	72	15	232	53	956	1009
Total	217	545	99	46	861	372	567	109	55	1048	268	352	260	81	880	79	579	245	47	903	229	3692	3921
Grand Total	431	974	149	56	1554	728	997	249	115	1974	550	769	526	153	1845	156	1154	462	88	1772	412	7145	7557
Apprch %	27.7	62.7	9.6			36.9	50.5	12.6			29.8	41.7	28.5			8.8	65.1	26.1					
Total %	6	13.6	2.1		21.7	10.2	14	3.5		27.6	7.7	10.8	7.4		25.8	2.2	16.2	6.5		24.8	5.5	94.5	
Passenger Vehicles	402	963	129		1541	715	875	211		1902	543	750	514		1957	102	1070	456		1715	0	0	7115
% Passenger Vehicles	93.3	98.9	86.6	83.9	95.7	98.2	87.8	84.7	87.8	91	98.7	97.5	97.7	98	97.9	65.4	92.7	98.7	98.9	92.2	0	0	94.2
Large 2 Axle Vehicles	8	8	6		24	7	18	10		39	5	11	5		22	9	25	5		40	0	0	125
% Large 2 Axle Vehicles	1.9	0.8	4	3.6	1.5	1	1.8	4	3.5	1.9	0.9	1.4	1	0.7	1.1	5.8	2.2	1.1	1.1	2.2	0	0	1.7
3 Axle Vehicles	5	1	1		7	2	13	7		23	1	3	3		9	13	24	0		37	0	0	76
% 3 Axle Vehicles	1.2	0.1	0.7	0	0.4	0.3	1.3	2.8	0.9	1.1	0.2	0.4	0.6	1.3	0.5	8.3	2.1	0	0	2	0	0	1
4+ Axle Trucks	16	2	13		38	4	91	21		125	1	5	4		10	32	35	1		68	0	0	241
% 4+ Axle Trucks	3.7	0.2	8.7	12.5	2.4	0.5	9.1	8.4	7.8	6	0.2	0.7	0.8	0	0.5	20.5	3	0.2	0	3.7	0	0	3.2

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**62**	107	14	183	94	**147**	35	276	82	91	**83**	**256**	21	**156**	**78**	**255**	**970**
05:00 PM	46	120	**27**	193	78	140	29	247	60	62	77	199	**28**	147	51	226	865
05:15 PM	56	**158**	20	**234**	**100**	134	17	251	**84**	93	72	249	13	133	57	203	937
05:30 PM	58	111	16	185	94	144	**43**	**281**	70	**99**	57	226	24	153	65	242	934
Total Volume	222	496	77	795	366	565	124	1055	296	345	289	930	86	589	251	926	3706
% App. Total	27.9	62.4	9.7		34.7	53.6	11.8		31.8	37.1	31.1		9.3	63.6	27.1		
PHF	.895	.785	.713	.849	.915	.961	.721	.939	.881	.871	.870	.908	.768	.944	.804	.908	.955

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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
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Weather: Clear

File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
Start Date : 5/10/2022

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				04:45 PM				04:00 PM				04:45 PM				
+0 mins.	46	120	27	193	94	**147**	35	276	64	**123**	53	240	21	**156**	**78**	**255**	
+15 mins.	56	**158**	20	234	78	140	29	247	64	84	62	210	**28**	147	51	226	
+30 mins.	**58**	111	16	185	**100**	134	17	251	72	119	68	**259**	13	133	57	203	
+45 mins.	57	156	**36**	**249**	94	144	**43**	**281**	**82**	91	**83**	256	24	153	65	242	
Total Volume	217	545	99	861	366	565	124	1055	282	417	266	965	86	589	251	926	
% App. Total	25.2	63.3	11.5		34.7	53.6	11.8		29.2	43.2	27.6		9.3	63.6	27.1		
PHF	.935	.862	.688	.864	.915	.961	.721	.939	.860	.848	.801	.931	.768	.944	.804	.908	

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Groups Printed- Passenger Vehicles

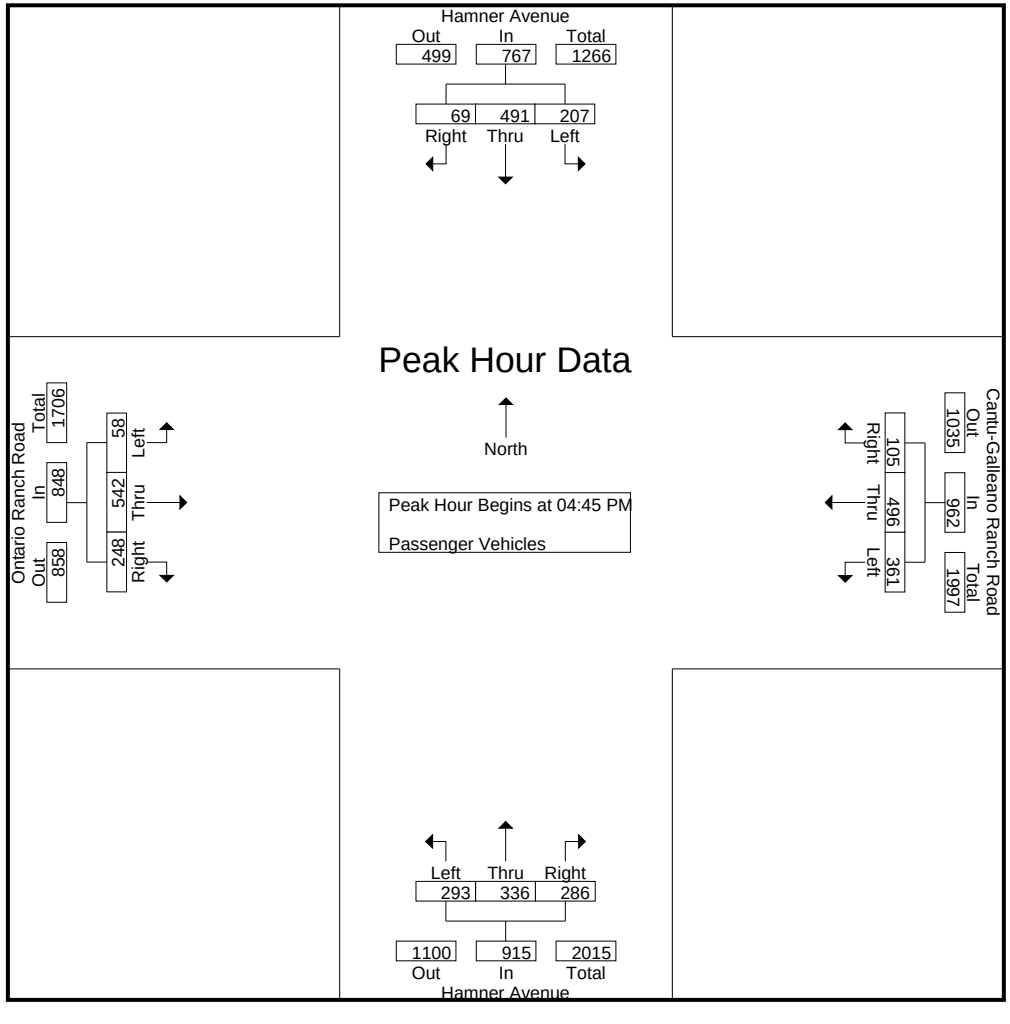
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	51	94	11	0	156	72	70	33	17	175	62	121	53	21	236	14	162	43	3	219	41	786	827
04:15 PM	38	100	6	1	144	100	93	27	13	220	63	83	56	12	202	8	120	54	7	182	33	748	781
04:30 PM	53	124	12	3	189	84	77	29	11	190	72	115	67	16	254	13	107	40	9	160	39	793	832
04:45 PM	57	105	12	3	174	92	123	32	12	247	81	90	83	21	254	13	147	77	21	237	57	912	969
Total	199	423	41	7	663	348	363	121	53	832	278	409	259	70	946	48	536	214	40	798	170	3239	3409
05:00 PM	45	119	23	7	187	78	127	19	11	224	60	59	75	24	194	21	133	51	10	205	52	810	862
05:15 PM	52	156	19	10	227	99	118	15	7	232	82	91	72	15	245	8	120	55	9	183	41	887	928
05:30 PM	53	111	15	13	179	92	128	39	26	259	70	96	56	19	222	16	142	65	13	223	71	883	954
05:45 PM	53	154	31	10	238	98	139	17	4	254	53	95	52	22	200	9	139	71	15	219	51	911	962
Total	203	540	88	40	831	367	512	90	48	969	265	341	255	80	861	54	534	242	47	830	215	3491	3706
Grand Total	402	963	129	47	1494	715	875	211	101	1801	543	750	514	150	1807	102	1070	456	87	1628	385	6730	7115
Apprch %	26.9	64.5	8.6			39.7	48.6	11.7			30	41.5	28.4			6.3	65.7	28					
Total %	6	14.3	1.9		22.2	10.6	13	3.1		26.8	8.1	11.1	7.6		26.8	1.5	15.9	6.8		24.2	5.4	94.6	

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**57**	105	12	174	92	123	32	247	81	90	**83**	**254**	13	**147**	**77**	**237**	**912**
05:00 PM	45	119	**23**	187	78	127	19	224	60	59	75	194	**21**	133	51	205	810
05:15 PM	52	**156**	19	**227**	**99**	118	15	232	**82**	91	72	245	8	120	55	183	887
05:30 PM	53	111	15	179	92	**128**	**39**	**259**	70	**96**	56	222	16	142	65	223	883
Total Volume	207	491	69	767	361	496	105	962	293	336	286	915	58	542	248	848	3492
% App. Total	27	64	9		37.5	51.6	10.9		32	36.7	31.3		6.8	63.9	29.2		
PHF	.908	.787	.750	.845	.912	.969	.673	.929	.893	.875	.861	.901	.690	.922	.805	.895	.957

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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
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City of Ontario
N/S: Hamner Avenue
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File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
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	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:45 PM				04:45 PM				04:45 PM				04:45 PM				
+0 mins.	**57**	105	12	174	92	123	32	247	81	90	**83**	**254**	13	**147**	**77**	**237**	
+15 mins.	45	119	**23**	187	78	127	19	224	60	59	75	194	**21**	133	51	205	
+30 mins.	52	**156**	19	**227**	**99**	118	15	232	**82**	91	72	245	8	120	55	183	
+45 mins.	53	111	15	179	92	**128**	**39**	**259**	70	**96**	56	222	16	142	65	223	
Total Volume	207	491	69	767	361	496	105	962	293	336	286	915	58	542	248	848	
% App. Total	27	64	9		37.5	51.6	10.9		32	36.7	31.3		6.8	63.9	29.2		
PHF	.908	.787	.750	.845	.912	.969	.673	.929	.893	.875	.861	.901	.690	.922	.805	.895	

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Groups Printed- Large 2 Axle Vehicles

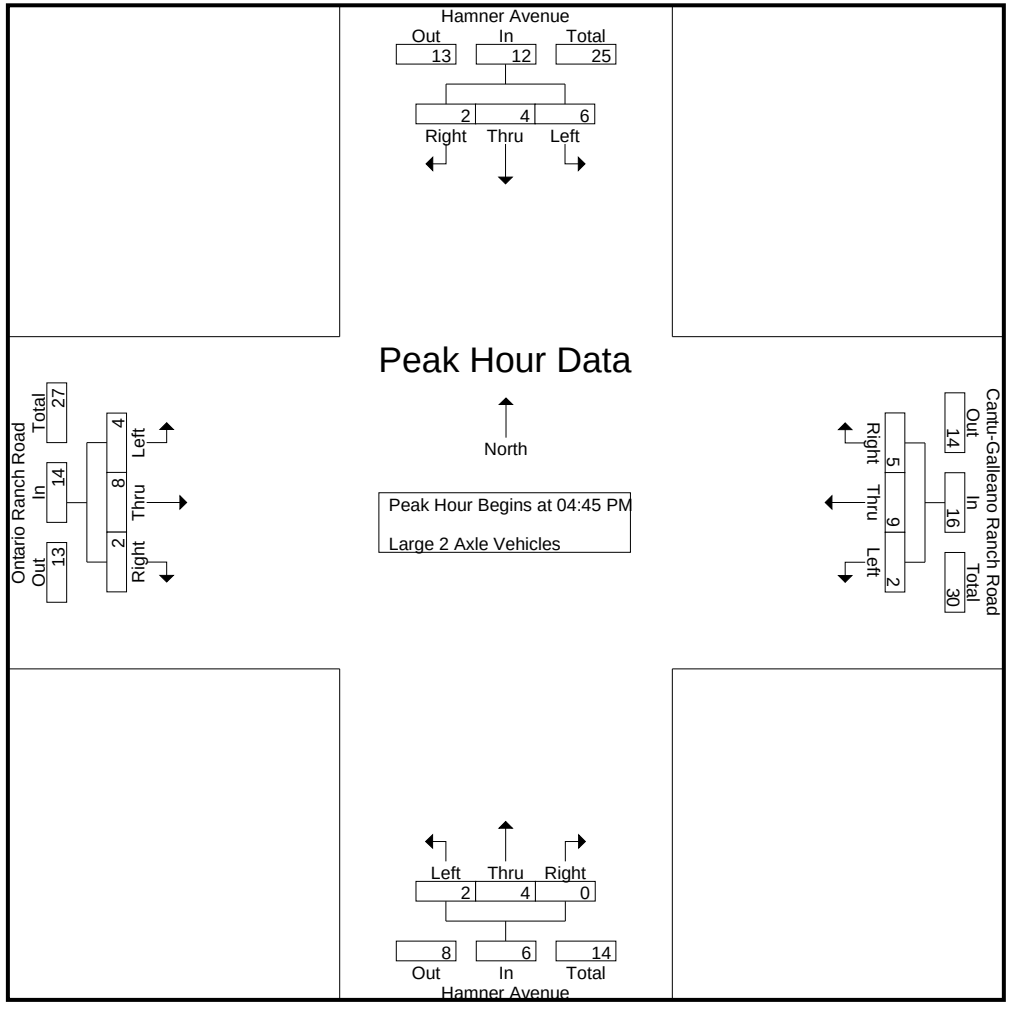
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	1	1	0	2	0	2	0	0	2	2	1	0	0	3	2	6	0	0	8	0	15	15
04:15 PM	0	2	1	1	3	3	3	2	2	8	1	1	3	0	5	1	2	1	0	4	3	20	23
04:30 PM	1	0	1	0	2	1	3	2	0	6	0	3	1	1	4	1	7	1	0	9	1	21	22
04:45 PM	2	2	1	0	5	1	2	1	0	4	1	0	0	0	1	0	3	1	1	4	1	14	15
Total	3	5	4	1	12	5	10	5	2	20	4	5	4	1	13	4	18	3	1	25	5	70	75
05:00 PM	1	1	1	1	3	0	2	2	1	4	0	1	0	0	1	2	2	0	0	4	2	12	14
05:15 PM	0	1	0	0	1	1	3	1	1	5	1	1	0	0	2	1	1	1	0	3	1	11	12
05:30 PM	3	0	0	0	3	0	2	1	0	3	0	2	0	0	2	1	2	0	0	3	0	11	11
05:45 PM	1	1	1	0	3	1	1	1	0	3	0	2	1	0	3	1	2	1	0	4	0	13	13
Total	5	3	2	1	10	2	8	5	2	15	1	6	1	0	8	5	7	2	0	14	3	47	50
Grand Total	8	8	6	2	22	7	18	10	4	35	5	11	5	1	21	9	25	5	1	39	8	117	125
Apprch %	36.4	36.4	27.3			20	51.4	28.6			23.8	52.4	23.8			23.1	64.1	12.8					
Total %	6.8	6.8	5.1		18.8	6	15.4	8.5		29.9	4.3	9.4	4.3		17.9	7.7	21.4	4.3		33.3	6.4	93.6	

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	2	**2**	**1**	**5**	**1**	2	1	4	**1**	0	0	1	0	**3**	**1**	**4**	**14**
05:00 PM	1	1	1	3	0	2	**2**	4	0	1	0	1	**2**	2	0	4	12
05:15 PM	0	1	0	1	1	**3**	1	**5**	1	1	0	**2**	1	1	1	3	11
05:30 PM	**3**	0	0	3	0	2	1	3	0	**2**	0	2	1	2	0	3	11
Total Volume	6	4	2	12	2	9	5	16	2	4	0	6	4	8	2	14	48
% App. Total	50	33.3	16.7		12.5	56.2	31.2		33.3	66.7	0		28.6	57.1	14.3		
PHF	.500	.500	.500	.600	.500	.750	.625	.800	.500	.500	.000	.750	.500	.667	.500	.875	.857

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File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
Start Date : 5/10/2022

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:45 PM				04:45 PM				04:45 PM				04:45 PM				
+0 mins.	2	**2**	**1**	**5**	**1**	2	1	4	**1**	0	0	1	0	**3**	**1**	**4**	
+15 mins.	1	1	1	3	0	2	**2**	4	0	1	0	1	**2**	2	0	4	
+30 mins.	0	1	0	1	1	**3**	1	**5**	1	1	0	**2**	1	1	1	3	
+45 mins.	**3**	0	0	3	0	2	1	3	0	**2**	0	2	1	2	0	3	
Total Volume	6	4	2	12	2	9	5	16	2	4	0	6	4	8	2	14	
% App. Total	50	33.3	16.7		12.5	56.2	31.2		33.3	66.7	0		28.6	57.1	14.3		
PHF	.500	.500	.500	.600	.500	.750	.625	.800	.500	.500	.000	.750	.500	.667	.500	.875	

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Page No : 1

Groups Printed- 3 Axle Vehicles

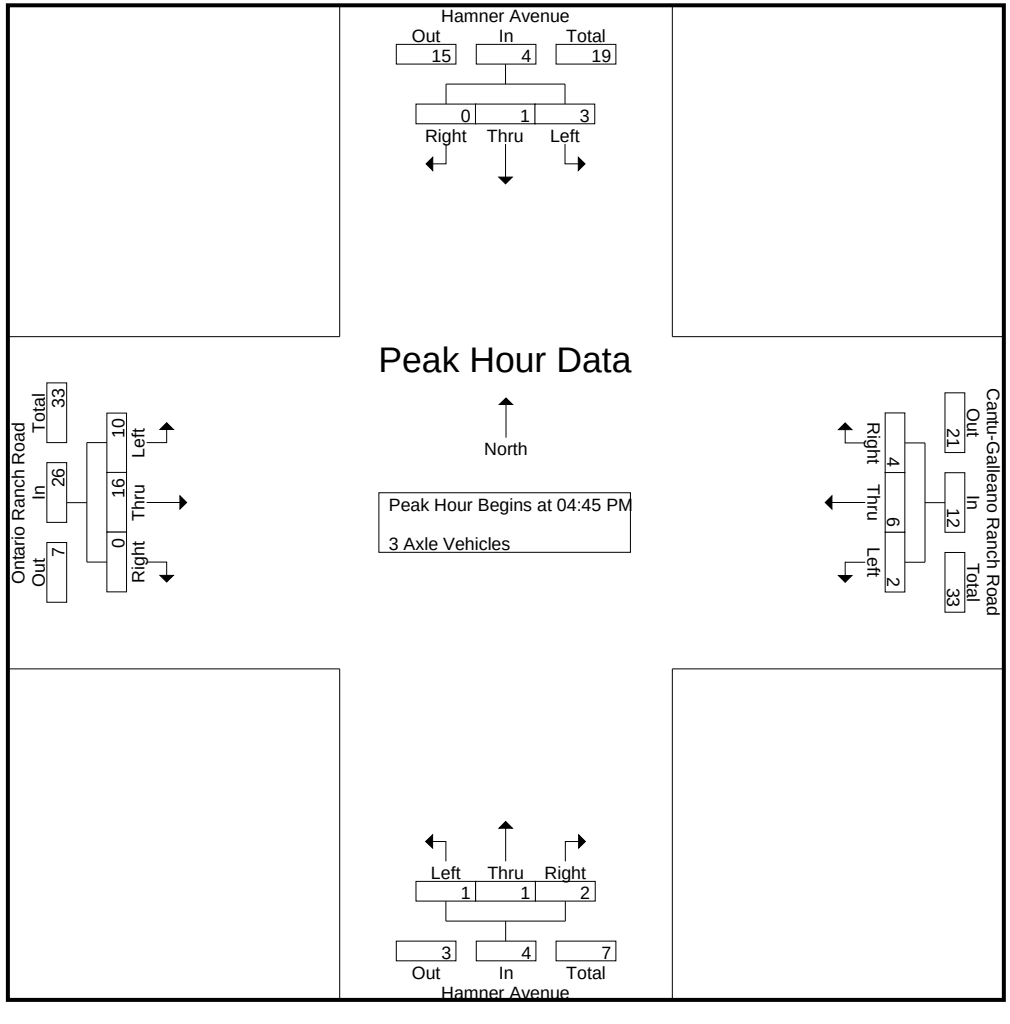
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	1	0	0	0	1	0	1	3	0	4	0	0	0	0	0	2	2	0	0	4	0	9	9
04:15 PM	0	0	1	0	1	0	2	0	0	2	0	0	1	1	1	0	2	0	0	2	1	6	7
04:30 PM	1	0	0	0	1	0	2	0	0	2	0	1	0	0	1	1	2	0	0	3	0	7	7
04:45 PM	2	0	0	0	2	0	2	0	0	2	0	0	0	0	0	2	2	0	0	4	0	8	8
Total	4	0	1	0	5	0	7	3	0	10	0	1	1	1	2	5	8	0	0	13	1	30	31
05:00 PM	0	0	0	0	0	0	1	3	0	4	0	1	2	1	3	2	4	0	0	6	1	13	14
05:15 PM	1	1	0	0	2	0	0	0	0	0	1	0	0	0	1	3	4	0	0	7	0	10	10
05:30 PM	0	0	0	0	0	2	3	1	1	6	0	0	0	0	0	3	6	0	0	9	1	15	16
05:45 PM	0	0	0	0	0	0	2	0	0	2	0	1	0	0	1	0	2	0	0	2	0	5	5
Total	1	1	0	0	2	2	6	4	1	12	1	2	2	1	5	8	16	0	0	24	2	43	45
Grand Total	5	1	1	0	7	2	13	7	1	22	1	3	3	2	7	13	24	0	0	37	3	73	76
Apprch %	71.4	14.3	14.3			9.1	59.1	31.8			14.3	42.9	42.9			35.1	64.9	0					
Total %	6.8	1.4	1.4		9.6	2.7	17.8	9.6		30.1	1.4	4.1	4.1		9.6	17.8	32.9	0		50.7	3.9	96.1	

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	**2**	0	0	**2**	0	2	0	2	0	0	0	0	2	2	0	4	8
05:00 PM	0	0	0	0	0	1	**3**	4	0	**1**	**2**	**3**	2	4	0	6	13
05:15 PM	1	**1**	0	2	0	0	0	0	**1**	0	0	1	**3**	4	0	7	10
05:30 PM	0	0	0	0	**2**	**3**	1	**6**	0	0	0	0	3	**6**	0	**9**	**15**
Total Volume	3	1	0	4	2	6	4	12	1	1	2	4	10	16	0	26	46
% App. Total	75	25	0		16.7	50	33.3		25	25	50		38.5	61.5	0		
PHF	.375	.250	.000	.500	.250	.500	.333	.500	.250	.250	.250	.333	.833	.667	.000	.722	.767

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
Start Date : 5/10/2022

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:45 PM				04:45 PM				04:45 PM				04:45 PM				
+0 mins.	**2**	0	0	**2**	0	2	0	2	0	0	0	0	2	2	0	4	
+15 mins.	0	0	0	0	0	1	**3**	4	0	**1**	**2**	**3**	2	4	0	6	
+30 mins.	1	**1**	0	2	0	0	0	0	**1**	0	0	1	**3**	4	0	7	
+45 mins.	0	0	0	0	**2**	**3**	1	**6**	0	0	0	0	3	**6**	0	**9**	
Total Volume	3	1	0	4	2	6	4	12	1	1	2	4	10	16	0	26	
% App. Total	75	25	0		16.7	50	33.3		25	25	50		38.5	61.5	0		
PHF	.375	.250	.000	.500	.250	.500	.333	.500	.250	.250	.250	.333	.833	.667	.000	.722	

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City of Ontario
N/S: Hamner Avenue
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File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

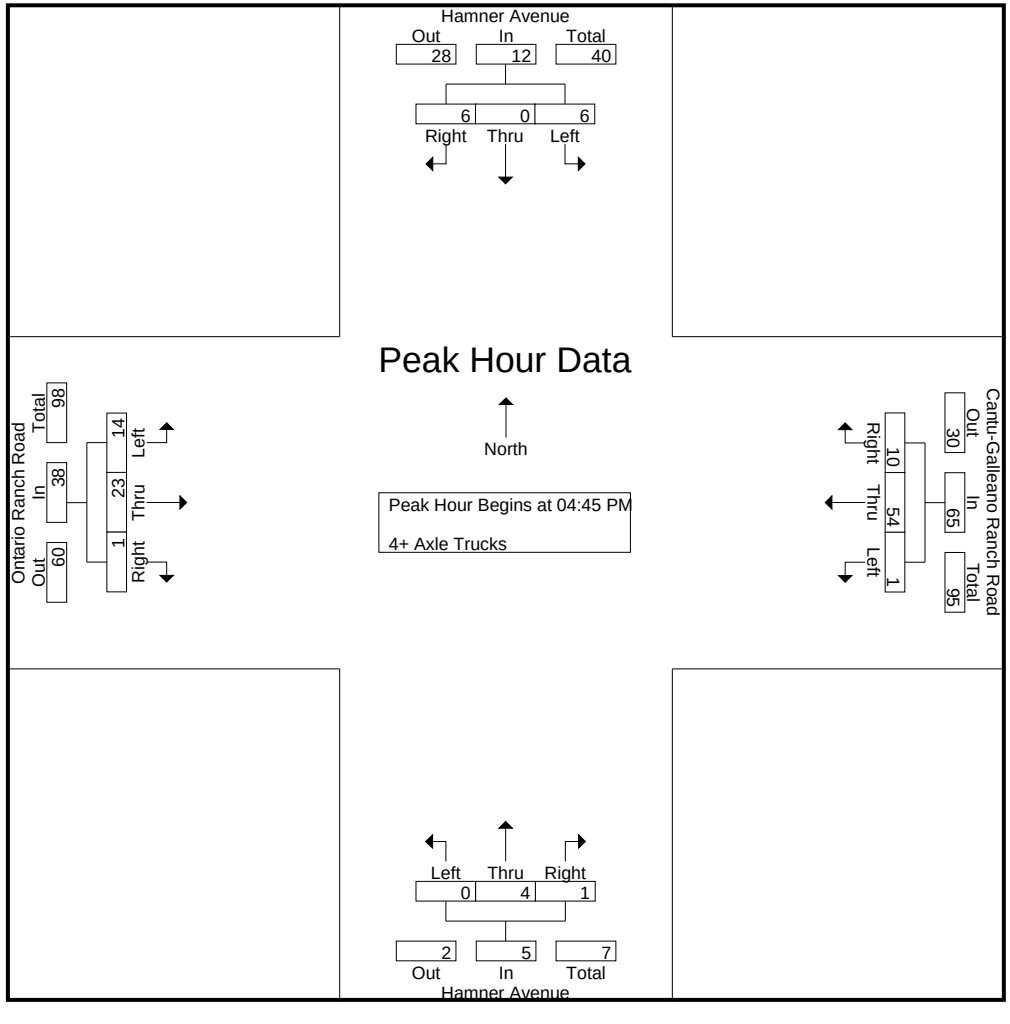
	Hamner Avenue Southbound					Cantu-Galleano Ranch Road Westbound					Hamner Avenue Northbound					Ontario Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	3	1	2	0	6	0	9	4	1	13	0	1	0	0	1	1	2	0	0	3	1	23	24
04:15 PM	2	0	0	0	2	0	13	3	2	16	0	0	2	0	2	7	4	0	0	11	2	31	33
04:30 PM	2	0	1	1	3	2	8	2	1	12	0	0	0	0	0	6	3	0	0	9	2	24	26
04:45 PM	1	0	1	1	2	1	20	2	1	23	0	1	0	0	1	6	4	0	0	10	2	36	38
Total	8	1	4	2	13	3	50	11	5	64	0	2	2	0	4	20	13	0	0	33	7	114	121
05:00 PM	0	0	3	2	3	0	10	5	2	15	0	1	0	0	1	3	8	0	0	11	4	30	34
05:15 PM	3	0	1	1	4	0	13	1	0	14	0	1	0	0	1	1	8	1	0	10	1	29	30
05:30 PM	2	0	1	1	3	0	11	2	1	13	0	1	1	0	2	4	3	0	0	7	2	25	27
05:45 PM	3	1	4	1	8	1	7	2	1	10	1	0	1	0	2	4	3	0	0	7	2	27	29
Total	8	1	9	5	18	1	41	10	4	52	1	3	2	0	6	12	22	1	0	35	9	111	120
Grand Total	16	2	13	7	31	4	91	21	9	116	1	5	4	0	10	32	35	1	0	68	16	225	241
Apprch %	51.6	6.5	41.9			3.4	78.4	18.1			10	50	40			47.1	51.5	1.5					
Total %	7.1	0.9	5.8		13.8	1.8	40.4	9.3		51.6	0.4	2.2	1.8		4.4	14.2	15.6	0.4		30.2	6.6	93.4	

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 04:45 PM																	
04:45 PM	1	0	1	2	**1**	**20**	2	**23**	0	**1**	0	1	**6**	4	0	10	**36**
05:00 PM	0	0	**3**	3	0	10	**5**	15	0	1	0	1	3	**8**	0	**11**	30
05:15 PM	**3**	0	1	**4**	0	13	1	14	0	1	0	1	1	8	**1**	10	29
05:30 PM	2	0	1	3	0	11	2	13	0	1	**1**	**2**	4	3	0	7	25
Total Volume	6	0	6	12	1	54	10	65	0	4	1	5	14	23	1	38	120
% App. Total	50	0	50		1.5	83.1	15.4		0	80	20		36.8	60.5	2.6		
PHF	.500	.000	.500	.750	.250	.675	.500	.707	.000	1.00	.250	.625	.583	.719	.250	.864	.833

Counts Unlimited, Inc.
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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: Hamner Avenue
E/W: Ontario Rnch Rd/Cantu-Galleano Rnch
Weather: Clear

File Name : 05_ONT_Ham_CGR PM
Site Code : 05122421
Start Date : 5/10/2022

	Hamner Avenue Southbound				Cantu-Galleano Ranch Road Westbound				Hamner Avenue Northbound				Ontario Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:45 PM to 05:30 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	04:45 PM				04:45 PM				04:45 PM				04:45 PM				
+0 mins.	1	0	1	2	**1**	**20**	2	**23**	0	**1**	0	1	**6**	4	0	10	
+15 mins.	0	0	**3**	3	0	10	**5**	15	0	1	0	1	3	**8**	0	**11**	
+30 mins.	**3**	0	1	**4**	0	13	1	14	0	1	0	1	1	8	**1**	10	
+45 mins.	2	0	1	3	0	11	2	13	0	1	**1**	**2**	4	3	0	7	
Total Volume	6	0	6	12	1	54	10	65	0	4	1	5	14	23	1	38	
% App. Total	50	0	50		1.5	83.1	15.4		0	80	20		36.8	60.5	2.6		
PHF	.500	.000	.500	.750	.250	.675	.500	.707	.000	1.000	.250	.625	.583	.719	.250	.864	

Location: Ontario
N/S: Hamner Avenue
E/W: Cantu-Galleano Ranch Rd

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg Hamner Avenue	East Leg Cantu-Galleano Ranch Rd	South Leg Hamner Avenue	West Leg Ontario Ranch Road	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	1	0	0	1
TOTAL VOLUMES:	0	1	0	0	1

	North Leg Hamner Avenue	East Leg Cantu-Galleano Ranch Rd	South Leg Hamner Avenue	West Leg Ontario Ranch Road	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

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Location: Ontario
N/S: Hamner Avenue
E/W: Cantu-Galleano Ranch Rd

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound Hamner Avenue			Westbound Cantu-Galleano Ranch Rd			Northbound Hamner Avenue			Eastbound Ontario Ranch Road			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
7:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	1	0	0	0	0	1
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	1	0	0	0	0	0	0	0	0	0	1
TOTAL VOLUMES:	0	0	1	0	0	0	0	2	0	0	0	0	3

	Southbound Hamner Avenue			Westbound Cantu-Galleano Ranch Rd			Northbound Hamner Avenue			Eastbound Ontario Ranch Road			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	0	0	0

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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

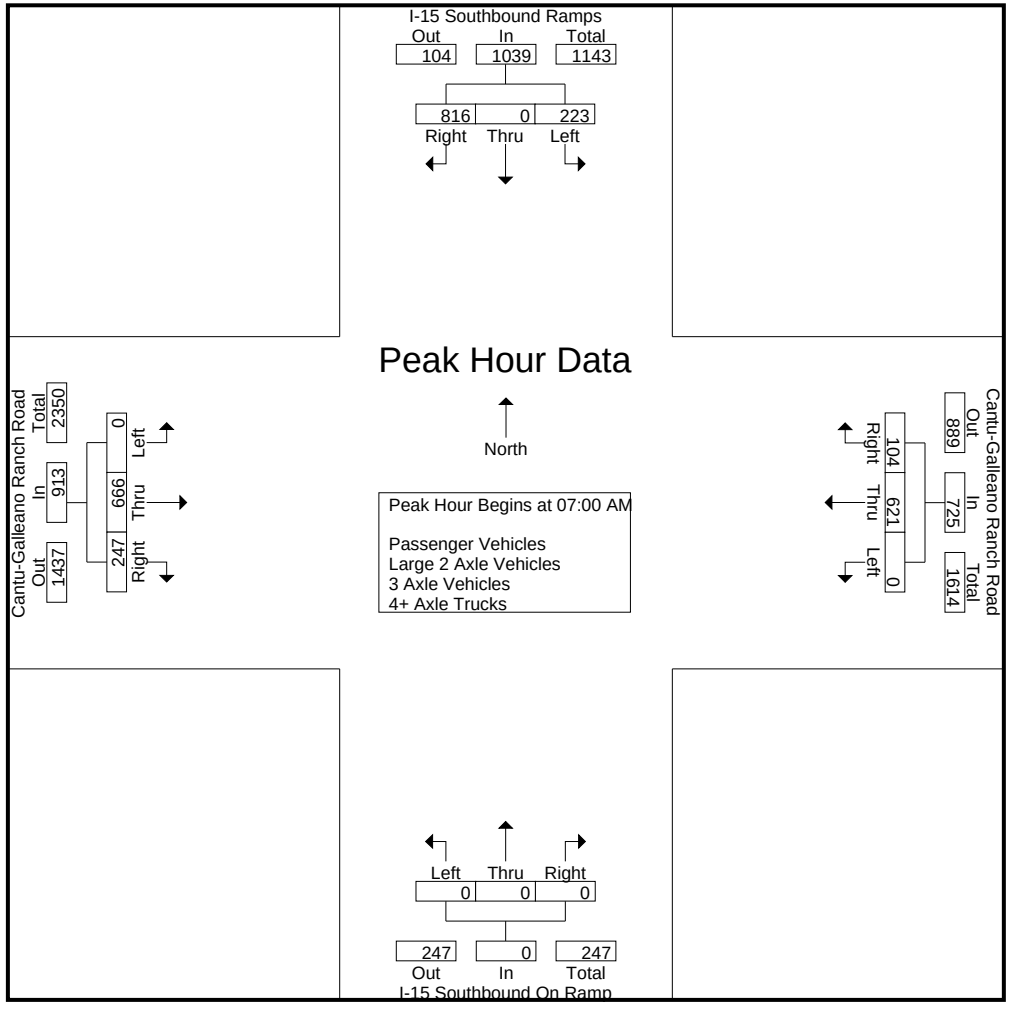
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	49	0	244	72	293	0	179	27	0	206	0	0	0	0	0	0	159	52	0	211	72	710	782
07:15 AM	54	0	238	65	292	0	158	34	0	192	0	0	0	0	0	0	171	79	0	250	65	734	799
07:30 AM	49	0	174	61	223	0	127	22	0	149	0	0	0	0	0	0	186	51	0	237	61	609	670
07:45 AM	71	0	160	51	231	0	157	21	0	178	0	0	0	0	0	0	150	65	0	215	51	624	675
Total	223	0	816	249	1039	0	621	104	0	725	0	0	0	0	0	0	666	247	0	913	249	2677	2926
08:00 AM	80	0	203	73	283	0	125	22	0	147	0	0	0	0	0	0	131	56	0	187	73	617	690
08:15 AM	62	0	164	65	226	0	128	24	0	152	0	0	0	0	0	0	140	59	0	199	65	577	642
08:30 AM	47	0	204	71	251	0	109	22	0	131	0	0	0	0	0	0	132	54	0	186	71	568	639
08:45 AM	55	0	166	45	221	0	95	15	0	110	0	0	0	0	0	0	113	46	0	159	45	490	535
Total	244	0	737	254	981	0	457	83	0	540	0	0	0	0	0	0	516	215	0	731	254	2252	2506
Grand Total	467	0	1553	503	2020	0	1078	187	0	1265	0	0	0	0	0	0	1182	462	0	1644	503	4929	5432
Apprch %	23.1	0	76.9			0	85.2	14.8			0	0	0			0	71.9	28.1					
Total %	9.5	0	31.5		41	0	21.9	3.8		25.7	0	0	0		0	0	24	9.4		33.4	9.3	90.7	
Passenger Vehicles	414	0	1356		2222	0	981	113		1094	0	0	0		0	0	1028	369		1397	0	0	4713
% Passenger Vehicles	88.7	0	87.3	89.9	88.1	0	91	60.4	0	86.5	0	0	0	0	0	0	87	79.9	0	85	0	0	86.8
Large 2 Axle Vehicles	17	0	44		76	0	24	11		35	0	0	0		0	0	29	25		54	0	0	165
% Large 2 Axle Vehicles	3.6	0	2.8	3	3	0	2.2	5.9	0	2.8	0	0	0	0	0	0	2.5	5.4	0	3.3	0	0	3
3 Axle Vehicles	7	0	50		71	0	16	10		26	0	0	0		0	0	42	20		62	0	0	159
% 3 Axle Vehicles	1.5	0	3.2	2.8	2.8	0	1.5	5.3	0	2.1	0	0	0	0	0	0	3.6	4.3	0	3.8	0	0	2.9
4+ Axle Trucks	29	0	103		154	0	57	53		110	0	0	0		0	0	83	48		131	0	0	395
% 4+ Axle Trucks	6.2	0	6.6	4.4	6.1	0	5.3	28.3	0	8.7	0	0	0	0	0	0	7	10.4	0	8	0	0	7.3

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	49	0	**244**	**293**	0	**179**	27	**206**	0	0	0	0	0	159	52	211	710
07:15 AM	54	0	238	292	0	158	**34**	192	0	0	0	0	0	171	**79**	**250**	**734**
07:30 AM	49	0	174	223	0	127	22	149	0	0	0	0	0	**186**	51	237	609
07:45 AM	**71**	0	160	231	0	157	21	178	0	0	0	0	0	150	65	215	624
Total Volume	223	0	816	1039	0	621	104	725	0	0	0	0	0	666	247	913	2677
% App. Total	21.5	0	78.5		0	85.7	14.3		0	0	0		0	72.9	27.1		
PHF	.785	.000	.836	.887	.000	.867	.765	.880	.000	.000	.000	.000	.000	.895	.782	.913	.912

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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:00 AM				07:00 AM				07:00 AM				07:00 AM				
+0 mins.	49	0	**244**	**293**	0	**179**	27	**206**	0	0	0	0	0	159	52	211	
+15 mins.	54	0	238	292	0	158	**34**	192	0	0	0	0	0	171	**79**	**250**	
+30 mins.	49	0	174	223	0	127	22	149	0	0	0	0	0	**186**	51	237	
+45 mins.	**71**	0	160	231	0	157	21	178	0	0	0	0	0	150	65	215	
Total Volume	223	0	816	1039	0	621	104	725	0	0	0	0	0	666	247	913	
% App. Total	21.5	0	78.5		0	85.7	14.3		0	0	0		0	72.9	27.1		
PHF	.785	.000	.836	.887	.000	.867	.765	.880	.000	.000	.000	.000	.000	.895	.782	.913	

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles

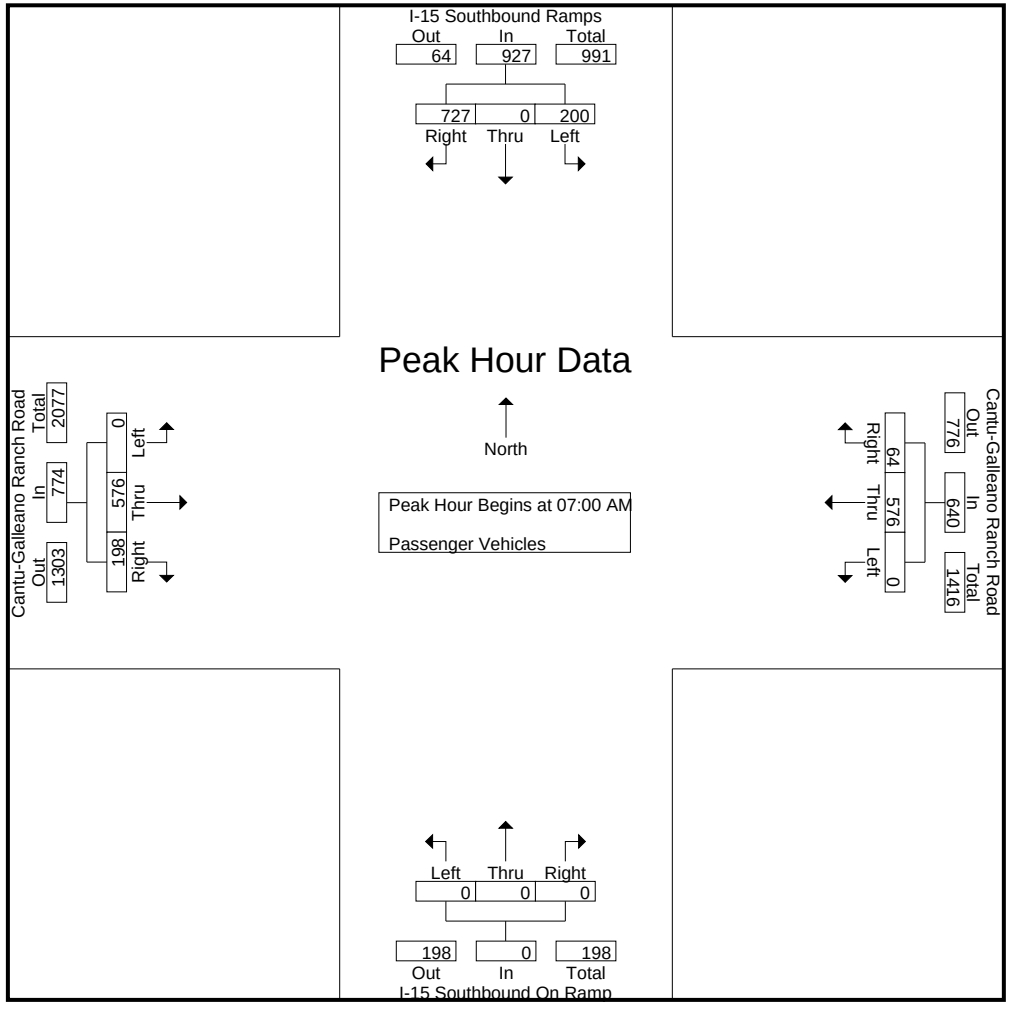
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	44	0	222	67	266	0	168	17	0	185	0	0	0	0	0	0	137	39	0	176	67	627	694
07:15 AM	46	0	211	58	257	0	150	24	0	174	0	0	0	0	0	0	143	63	0	206	58	637	695
07:30 AM	43	0	151	54	194	0	116	11	0	127	0	0	0	0	0	0	164	42	0	206	54	527	581
07:45 AM	67	0	143	47	210	0	142	12	0	154	0	0	0	0	0	0	132	54	0	186	47	550	597
Total	200	0	727	226	927	0	576	64	0	640	0	0	0	0	0	0	576	198	0	774	226	2341	2567
08:00 AM	77	0	175	64	252	0	110	12	0	122	0	0	0	0	0	0	116	47	0	163	64	537	601
08:15 AM	51	0	141	58	192	0	119	16	0	135	0	0	0	0	0	0	120	43	0	163	58	490	548
08:30 AM	38	0	174	63	212	0	90	14	0	104	0	0	0	0	0	0	111	44	0	155	63	471	534
08:45 AM	48	0	139	41	187	0	86	7	0	93	0	0	0	0	0	0	105	37	0	142	41	422	463
Total	214	0	629	226	843	0	405	49	0	454	0	0	0	0	0	0	452	171	0	623	226	1920	2146
Grand Total	414	0	1356	452	1770	0	981	113	0	1094	0	0	0	0	0	0	1028	369	0	1397	452	4261	4713
Apprch %	23.4	0	76.6			0	89.7	10.3			0	0	0			0	73.6	26.4					
Total %	9.7	0	31.8		41.5	0	23	2.7		25.7	0	0	0		0	0	24.1	8.7		32.8	9.6	90.4	

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	44	0	**222**	**266**	0	**168**	17	**185**	0	0	0	0	0	137	39	176	627
07:15 AM	46	0	211	257	0	150	**24**	174	0	0	0	0	0	143	**63**	**206**	**637**
07:30 AM	43	0	151	194	0	116	11	127	0	0	0	0	0	**164**	42	206	527
07:45 AM	**67**	0	143	210	0	142	12	154	0	0	0	0	0	132	54	186	550
Total Volume	200	0	727	927	0	576	64	640	0	0	0	0	0	576	198	774	2341
% App. Total	21.6	0	78.4		0	90	10		0	0	0		0	74.4	25.6		
PHF	.746	.000	.819	.871	.000	.857	.667	.865	.000	.000	.000	.000	.000	.878	.786	.939	.919

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:00 AM				07:00 AM				07:00 AM				07:00 AM				
+0 mins.	44	0	**222**	**266**	0	**168**	17	**185**	0	0	0	0	0	137	39	176	
+15 mins.	46	0	211	257	0	150	**24**	174	0	0	0	0	0	143	**63**	**206**	
+30 mins.	43	0	151	194	0	116	11	127	0	0	0	0	0	**164**	42	206	
+45 mins.	**67**	0	143	210	0	142	12	154	0	0	0	0	0	132	54	186	
Total Volume	200	0	727	927	0	576	64	640	0	0	0	0	0	576	198	774	
% App. Total	21.6	0	78.4		0	90	10		0	0	0		0	74.4	25.6		
PHF	.746	.000	.819	.871	.000	.857	.667	.865	.000	.000	.000	.000	.000	.878	.786	.939	

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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

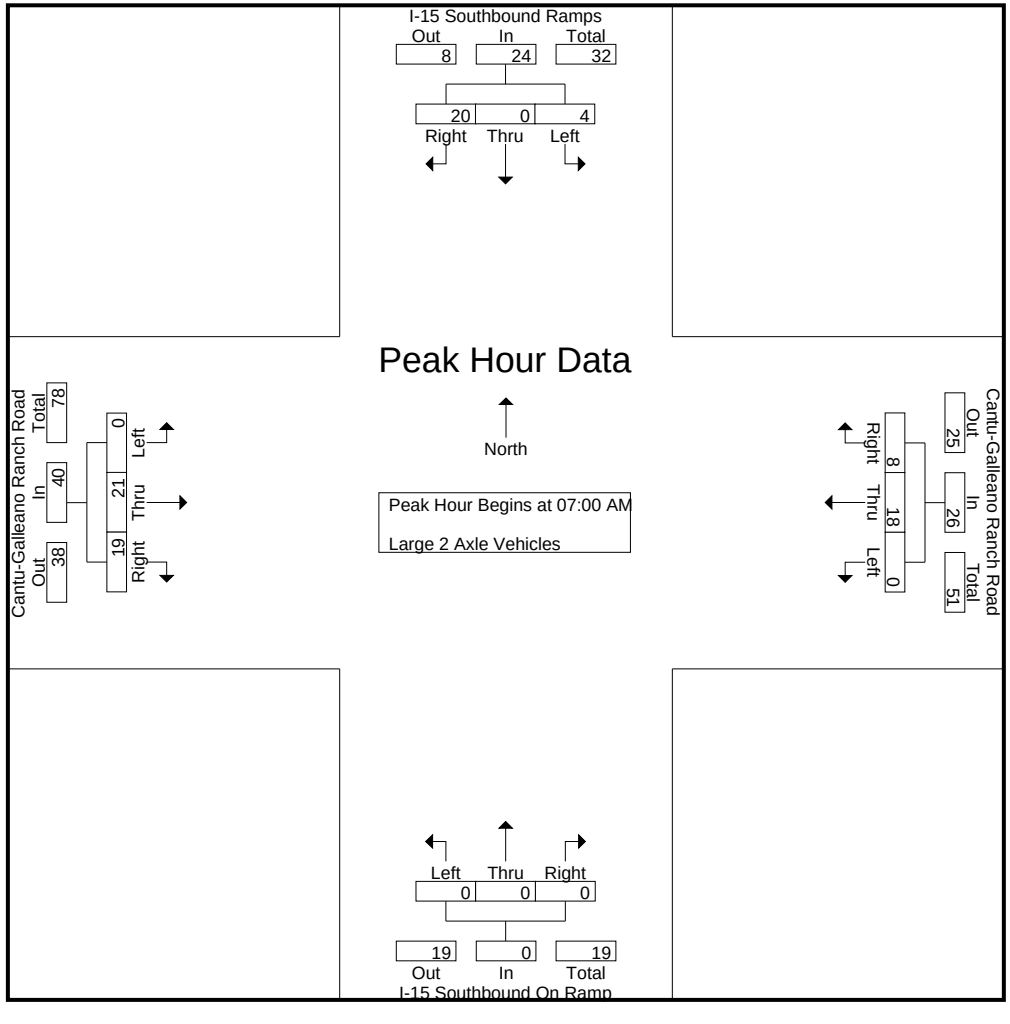
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	1	0	7	3	8	0	5	3	0	8	0	0	0	0	0	0	6	5	0	11	3	27	30
07:15 AM	1	0	5	2	6	0	4	1	0	5	0	0	0	0	0	0	7	6	0	13	2	24	26
07:30 AM	1	0	4	1	5	0	5	2	0	7	0	0	0	0	0	0	5	4	0	9	1	21	22
07:45 AM	1	0	4	1	5	0	4	2	0	6	0	0	0	0	0	0	3	4	0	7	1	18	19
Total	4	0	20	7	24	0	18	8	0	26	0	0	0	0	0	0	21	19	0	40	7	90	97
08:00 AM	2	0	7	2	9	0	2	1	0	3	0	0	0	0	0	0	2	1	0	3	2	15	17
08:15 AM	3	0	6	2	9	0	1	0	0	1	0	0	0	0	0	0	1	0	0	1	2	11	13
08:30 AM	7	0	6	4	13	0	2	1	0	3	0	0	0	0	0	0	3	2	0	5	4	21	25
08:45 AM	1	0	5	0	6	0	1	1	0	2	0	0	0	0	0	0	2	3	0	5	0	13	13
Total	13	0	24	8	37	0	6	3	0	9	0	0	0	0	0	0	8	6	0	14	8	60	68
Grand Total	17	0	44	15	61	0	24	11	0	35	0	0	0	0	0	0	29	25	0	54	15	150	165
Apprch %	27.9	0	72.1			0	68.6	31.4			0	0	0			0	53.7	46.3					
Total %	11.3	0	29.3		40.7	0	16	7.3		23.3	0	0	0		0	0	19.3	16.7		36	9.1	90.9	

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	**1**	0	**7**	**8**	0	**5**	**3**	**8**	0	0	0	0	0	6	5	11	**27**
07:15 AM	1	0	5	6	0	4	1	5	0	0	0	0	0	**7**	**6**	**13**	24
07:30 AM	1	0	4	5	0	5	2	7	0	0	0	0	0	5	4	9	21
07:45 AM	1	0	4	5	0	4	2	6	0	0	0	0	0	3	4	7	18
Total Volume	4	0	20	24	0	18	8	26	0	0	0	0	0	21	19	40	90
% App. Total	16.7	0	83.3		0	69.2	30.8		0	0	0		0	52.5	47.5		
PHF	1.00	.000	.714	.750	.000	.900	.667	.813	.000	.000	.000	.000	.000	.750	.792	.769	.833

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:00 AM				07:00 AM				07:00 AM				07:00 AM				
+0 mins.	**1**	0	**7**	**8**	0	**5**	**3**	**8**	0	0	0	0	0	6	5	11	
+15 mins.	1	0	5	6	0	4	1	5	0	0	0	0	0	**7**	**6**	**13**	
+30 mins.	1	0	4	5	0	5	2	7	0	0	0	0	0	5	4	9	
+45 mins.	1	0	4	5	0	4	2	6	0	0	0	0	0	3	4	7	
Total Volume	4	0	20	24	0	18	8	26	0	0	0	0	0	21	19	40	
% App. Total	16.7	0	83.3		0	69.2	30.8		0	0	0		0	52.5	47.5		
PHF	1.000	.000	.714	.750	.000	.900	.667	.813	.000	.000	.000	.000	.000	.750	.792	.769	

Counts Unlimited, Inc.
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(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

Groups Printed- 3 Axle Vehicles

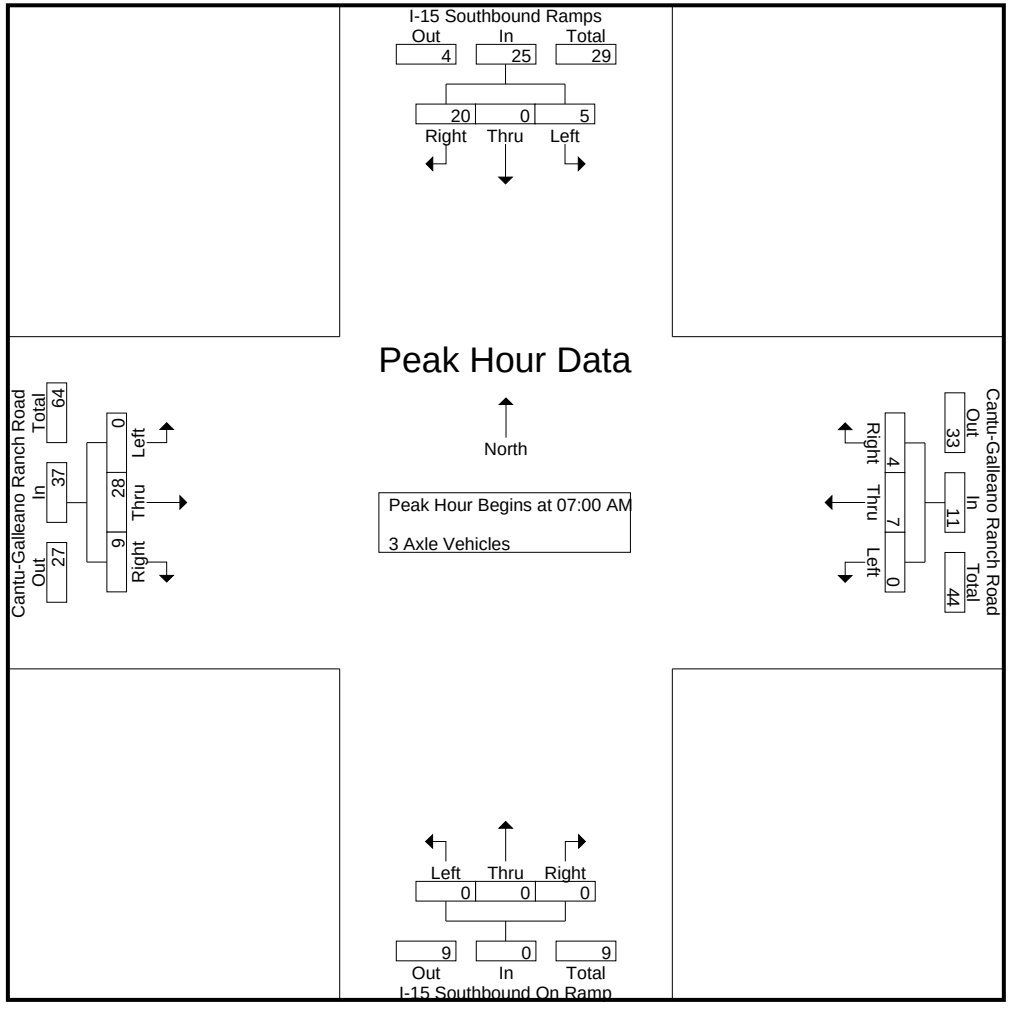
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	1	0	7	1	8	0	0	1	0	1	0	0	0	0	0	0	7	5	0	12	1	21	22
07:15 AM	2	0	6	1	8	0	0	0	0	0	0	0	0	0	0	0	9	3	0	12	1	20	21
07:30 AM	1	0	4	1	5	0	1	1	0	2	0	0	0	0	0	0	6	1	0	7	1	14	15
07:45 AM	1	0	3	3	4	0	6	2	0	8	0	0	0	0	0	0	6	0	0	6	3	18	21
Total	5	0	20	6	25	0	7	4	0	11	0	0	0	0	0	0	28	9	0	37	6	73	79
08:00 AM	0	0	7	5	7	0	4	0	0	4	0	0	0	0	0	0	2	2	0	4	5	15	20
08:15 AM	1	0	8	1	9	0	1	3	0	4	0	0	0	0	0	0	4	2	0	6	1	19	20
08:30 AM	0	0	11	2	11	0	3	3	0	6	0	0	0	0	0	0	7	3	0	10	2	27	29
08:45 AM	1	0	4	0	5	0	1	0	0	1	0	0	0	0	0	0	1	4	0	5	0	11	11
Total	2	0	30	8	32	0	9	6	0	15	0	0	0	0	0	0	14	11	0	25	8	72	80
Grand Total	7	0	50	14	57	0	16	10	0	26	0	0	0	0	0	0	42	20	0	62	14	145	159
Apprch %	12.3	0	87.7			0	61.5	38.5			0	0	0			0	67.7	32.3					
Total %	4.8	0	34.5		39.3	0	11	6.9		17.9	0	0	0		0	0	29	13.8		42.8	8.8	91.2	

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	1	0	**7**	**8**	0	0	1	1	0	0	0	0	0	7	**5**	**12**	**21**
07:15 AM	**2**	0	6	8	0	0	0	0	0	0	0	0	0	**9**	3	12	20
07:30 AM	1	0	4	5	0	1	1	2	0	0	0	0	0	6	1	7	14
07:45 AM	1	0	3	4	0	**6**	**2**	**8**	0	0	0	0	0	6	0	6	18
Total Volume	5	0	20	25	0	7	4	11	0	0	0	0	0	28	9	37	73
% App. Total	20	0	80		0	63.6	36.4		0	0	0		0	75.7	24.3		
PHF	.625	.000	.714	.781	.000	.292	.500	.344	.000	.000	.000	.000	.000	.778	.450	.771	.869

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:00 AM				07:00 AM				07:00 AM				07:00 AM				
+0 mins.	1	0	**7**	**8**	0	0	1	1	0	0	0	0	0	7	**5**	**12**	
+15 mins.	**2**	0	6	8	0	0	0	0	0	0	0	0	0	**9**	3	12	
+30 mins.	1	0	4	5	0	1	1	2	0	0	0	0	0	6	1	7	
+45 mins.	1	0	3	4	0	**6**	**2**	**8**	0	0	0	0	0	6	0	6	
Total Volume	5	0	20	25	0	7	4	11	0	0	0	0	0	28	9	37	
% App. Total	20	0	80		0	63.6	36.4		0	0	0		0	75.7	24.3		
PHF	.625	.000	.714	.781	.000	.292	.500	.344	.000	.000	.000	.000	.000	.778	.450	.771	

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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

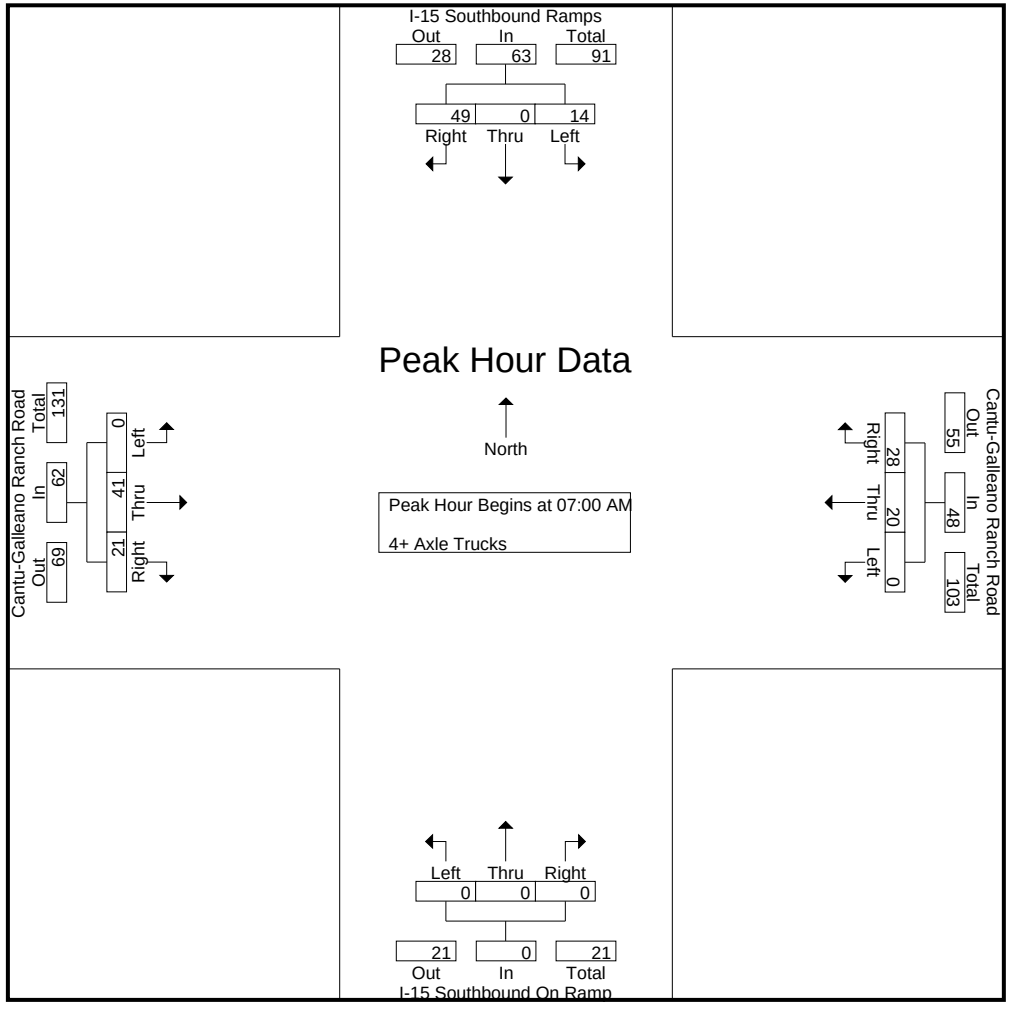
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	3	0	8	1	11	0	6	6	0	12	0	0	0	0	0	0	9	3	0	12	1	35	36
07:15 AM	5	0	16	4	21	0	4	9	0	13	0	0	0	0	0	0	12	7	0	19	4	53	57
07:30 AM	4	0	15	5	19	0	5	8	0	13	0	0	0	0	0	0	11	4	0	15	5	47	52
07:45 AM	2	0	10	0	12	0	5	5	0	10	0	0	0	0	0	0	9	7	0	16	0	38	38
Total	14	0	49	10	63	0	20	28	0	48	0	0	0	0	0	0	41	21	0	62	10	173	183
08:00 AM	1	0	14	2	15	0	9	9	0	18	0	0	0	0	0	0	11	6	0	17	2	50	52
08:15 AM	7	0	9	4	16	0	7	5	0	12	0	0	0	0	0	0	15	14	0	29	4	57	61
08:30 AM	2	0	13	2	15	0	14	4	0	18	0	0	0	0	0	0	11	5	0	16	2	49	51
08:45 AM	5	0	18	4	23	0	7	7	0	14	0	0	0	0	0	0	5	2	0	7	4	44	48
Total	15	0	54	12	69	0	37	25	0	62	0	0	0	0	0	0	42	27	0	69	12	200	212
Grand Total	29	0	103	22	132	0	57	53	0	110	0	0	0	0	0	0	83	48	0	131	22	373	395
Apprch %	22	0	78			0	51.8	48.2			0	0	0			0	63.4	36.6					
Total %	7.8	0	27.6		35.4	0	15.3	14.2		29.5	0	0	0		0	0	22.3	12.9		35.1	5.6	94.4	

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 07:00 AM																	
07:00 AM	3	0	8	11	0	**6**	6	12	0	0	0	0	0	9	3	12	35
07:15 AM	**5**	0	**16**	**21**	0	4	**9**	**13**	0	0	0	0	0	**12**	**7**	**19**	**53**
07:30 AM	4	0	15	19	0	5	8	13	0	0	0	0	0	11	4	15	47
07:45 AM	2	0	10	12	0	5	5	10	0	0	0	0	0	9	7	16	38
Total Volume	14	0	49	63	0	20	28	48	0	0	0	0	0	41	21	62	173
% App. Total	22.2	0	77.8		0	41.7	58.3		0	0	0		0	66.1	33.9		
PHF	.700	.000	.766	.750	.000	.833	.778	.923	.000	.000	.000	.000	.000	.854	.750	.816	.816

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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	07:00 AM				07:00 AM				07:00 AM				07:00 AM				
+0 mins.	3	0	8	11	0	**6**	6	12	0	0	0	0	0	9	3	12	
+15 mins.	**5**	0	**16**	**21**	0	4	**9**	**13**	0	0	0	0	0	**12**	**7**	**19**	
+30 mins.	4	0	15	19	0	5	8	13	0	0	0	0	0	11	4	15	
+45 mins.	2	0	10	12	0	5	5	10	0	0	0	0	0	9	7	16	
Total Volume	14	0	49	63	0	20	28	48	0	0	0	0	0	41	21	62	
% App. Total	22.2	0	77.8		0	41.7	58.3		0	0	0		0	66.1	33.9		
PHF	.700	.000	.766	.750	.000	.833	.778	.923	.000	.000	.000	.000	.000	.854	.750	.816	

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City of Ontario
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File Name : 06_ONT_15S_CGR PM
Site Code : 05122421
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Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

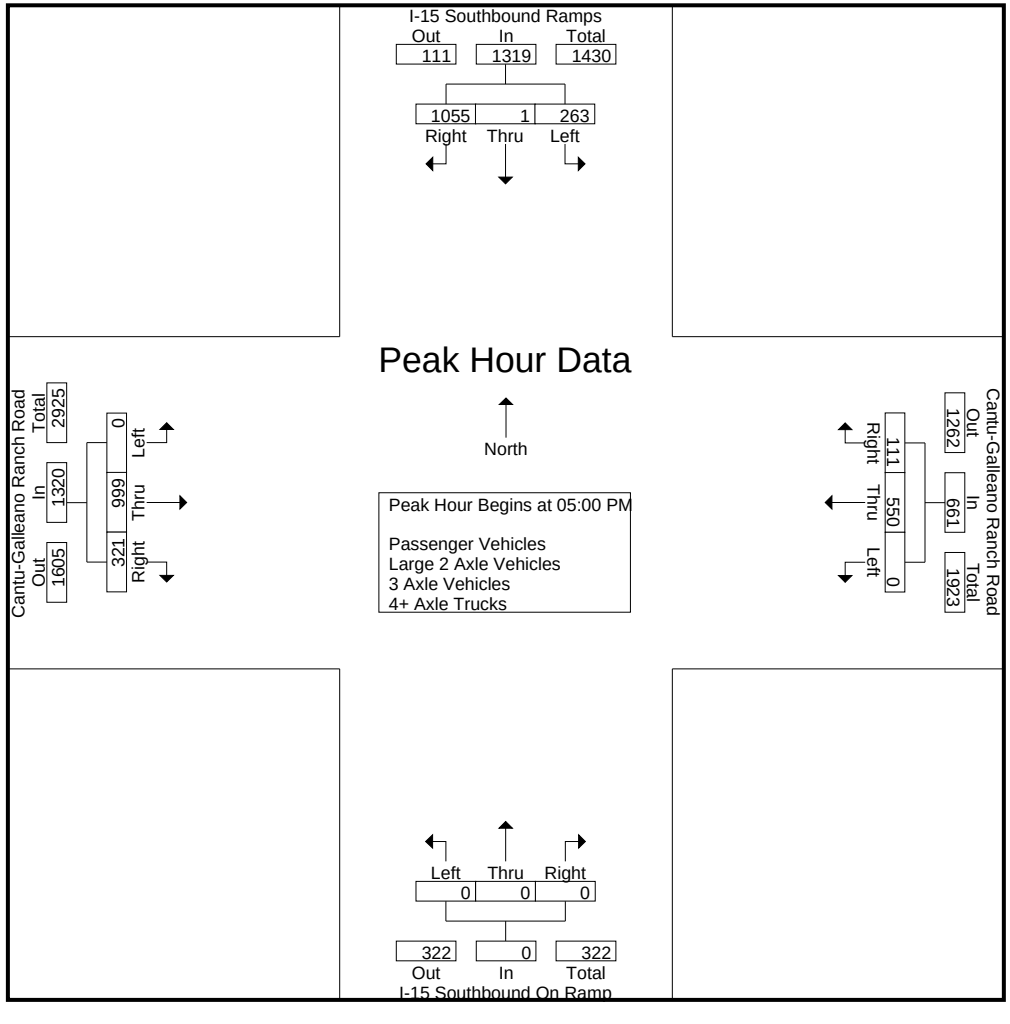
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	62	0	159	46	221	0	113	26	0	139	0	0	0	0	0	0	238	83	0	321	46	681	727
04:15 PM	80	0	212	64	292	0	83	23	0	106	0	0	0	0	0	0	202	54	0	256	64	654	718
04:30 PM	84	0	191	64	275	0	125	32	0	157	0	0	0	0	0	0	227	88	0	315	64	747	811
04:45 PM	77	0	257	75	334	0	118	19	0	137	0	0	0	0	0	0	249	43	0	292	75	763	838
Total	303	0	819	249	1122	0	439	100	0	539	0	0	0	0	0	0	916	268	0	1184	249	2845	3094
05:00 PM	58	0	231	49	289	0	126	45	0	171	0	0	0	0	0	0	243	72	0	315	49	775	824
05:15 PM	80	1	242	86	323	0	148	34	0	182	0	0	0	0	0	0	257	57	0	314	86	819	905
05:30 PM	55	0	286	72	341	0	143	22	0	165	0	0	0	0	0	0	253	119	0	372	72	878	950
05:45 PM	70	0	296	86	366	0	133	10	0	143	0	0	0	0	0	0	246	73	0	319	86	828	914
Total	263	1	1055	293	1319	0	550	111	0	661	0	0	0	0	0	0	999	321	0	1320	293	3300	3593
Grand Total	566	1	1874	542	2441	0	989	211	0	1200	0	0	0	0	0	0	1915	589	0	2504	542	6145	6687
Apprch %	23.2	0	76.8			0	82.4	17.6			0	0	0			0	76.5	23.5					
Total %	9.2	0	30.5		39.7	0	16.1	3.4		19.5	0	0	0		0	0	31.2	9.6		40.7	8.1	91.9	
Passenger Vehicles	518	1	1716		2749	0	924	176		1100	0	0	0		0	0	1785	576		2361	0	0	6210
% Passenger Vehicles	91.5	100	91.6	94.8	92.2	0	93.4	83.4	0	91.7	0	0	0	0	0	0	93.2	97.8	0	94.3	0	0	92.9
Large 2 Axle Vehicles	13	0	28		50	0	18	6		24	0	0	0		0	0	24	8		32	0	0	106
% Large 2 Axle Vehicles	2.3	0	1.5	1.7	1.7	0	1.8	2.8	0	2	0	0	0	0	0	0	1.3	1.4	0	1.3	0	0	1.6
3 Axle Vehicles	5	0	30		39	0	12	1		13	0	0	0		0	0	45	0		45	0	0	97
% 3 Axle Vehicles	0.9	0	1.6	0.7	1.3	0	1.2	0.5	0	1.1	0	0	0	0	0	0	2.3	0	0	1.8	0	0	1.5
4+ Axle Trucks	30	0	100		145	0	35	28		63	0	0	0		0	0	61	5		66	0	0	274
% 4+ Axle Trucks	5.3	0	5.3	2.8	4.9	0	3.5	13.3	0	5.2	0	0	0	0	0	0	3.2	0.8	0	2.6	0	0	4.1

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	58	0	231	289	0	126	**45**	171	0	0	0	0	0	243	72	315	775
05:15 PM	**80**	**1**	242	323	0	**148**	34	**182**	0	0	0	0	0	**257**	57	314	819
05:30 PM	55	0	286	341	0	143	22	165	0	0	0	0	0	253	**119**	**372**	**878**
05:45 PM	70	0	**296**	**366**	0	133	10	143	0	0	0	0	0	246	73	319	828
Total Volume	263	1	1055	1319	0	550	111	661	0	0	0	0	0	999	321	1320	3300
% App. Total	19.9	0.1	80		0	83.2	16.8		0	0	0		0	75.7	24.3		
PHF	.822	.250	.891	.901	.000	.929	.617	.908	.000	.000	.000	.000	.000	.972	.674	.887	.940

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City of Ontario
N/S: I-15 Southbound Ramps
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Weather: Clear

File Name : 06_ONT_15S_CGR PM
Site Code : 05122421
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	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				04:00 PM				05:00 PM				
+0 mins.	58	0	231	289	0	126	**45**	171	0	0	0	0	0	243	72	315	
+15 mins.	**80**	**1**	242	323	0	**148**	34	**182**	0	0	0	0	0	**257**	57	314	
+30 mins.	55	0	286	341	0	143	22	165	0	0	0	0	0	253	**119**	**372**	
+45 mins.	70	0	**296**	**366**	0	133	10	143	0	0	0	0	0	246	73	319	
Total Volume	263	1	1055	1319	0	550	111	661	0	0	0	0	0	999	321	1320	
% App. Total	19.9	0.1	80		0	83.2	16.8		0	0	0		0	75.7	24.3		
PHF	.822	.250	.891	.901	.000	.929	.617	.908	.000	.000	.000	.000	.000	.972	.674	.887	

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Groups Printed- Passenger Vehicles

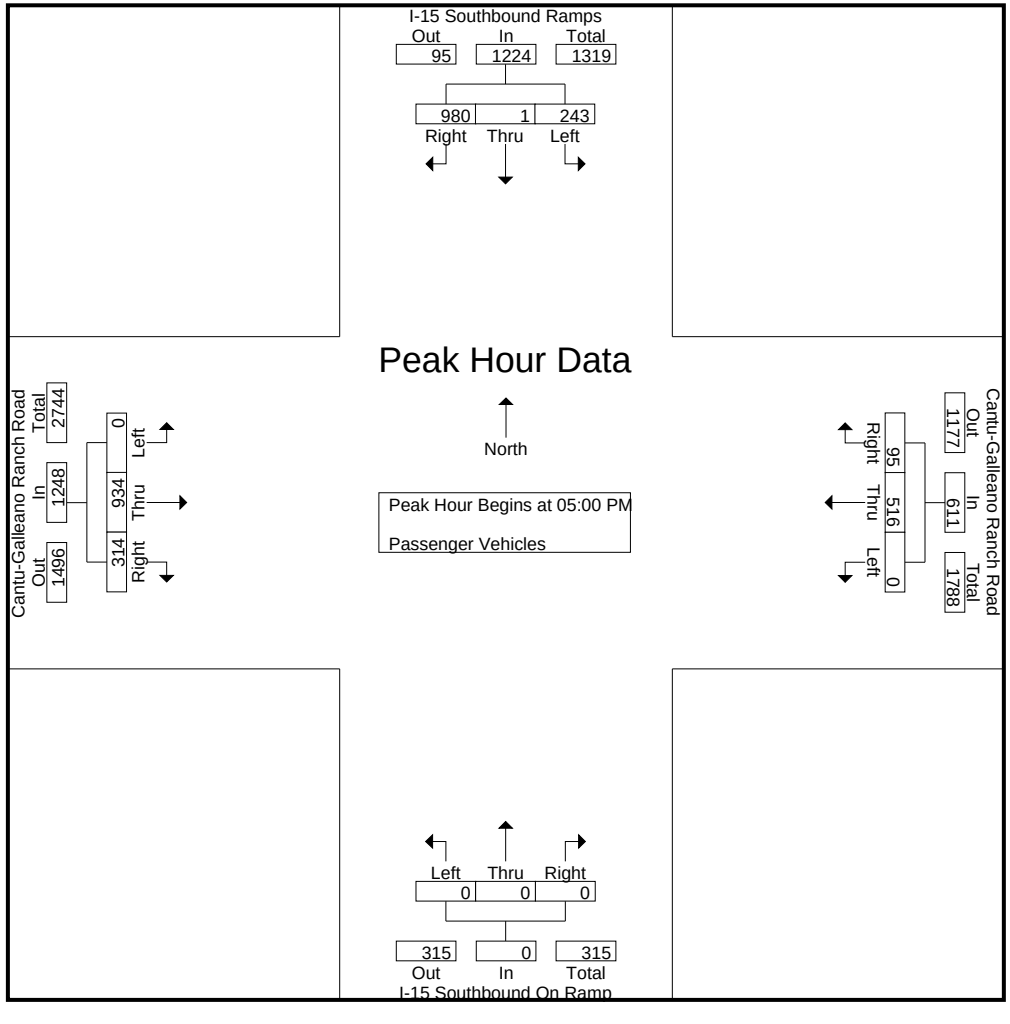
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	56	0	135	44	191	0	106	20	0	126	0	0	0	0	0	0	221	82	0	303	44	620	664
04:15 PM	73	0	199	62	272	0	74	15	0	89	0	0	0	0	0	0	185	53	0	238	62	599	661
04:30 PM	76	0	172	61	248	0	116	28	0	144	0	0	0	0	0	0	208	86	0	294	61	686	747
04:45 PM	70	0	230	70	300	0	112	18	0	130	0	0	0	0	0	0	237	41	0	278	70	708	778
Total	275	0	736	237	1011	0	408	81	0	489	0	0	0	0	0	0	851	262	0	1113	237	2613	2850
05:00 PM	55	0	213	42	268	0	113	41	0	154	0	0	0	0	0	0	230	71	0	301	42	723	765
05:15 PM	72	1	228	84	301	0	140	30	0	170	0	0	0	0	0	0	238	55	0	293	84	764	848
05:30 PM	52	0	258	68	310	0	139	17	0	156	0	0	0	0	0	0	237	115	0	352	68	818	886
05:45 PM	64	0	281	83	345	0	124	7	0	131	0	0	0	0	0	0	229	73	0	302	83	778	861
Total	243	1	980	277	1224	0	516	95	0	611	0	0	0	0	0	0	934	314	0	1248	277	3083	3360
Grand Total	518	1	1716	514	2235	0	924	176	0	1100	0	0	0	0	0	0	1785	576	0	2361	514	5696	6210
Apprch %	23.2	0	76.8			0	84	16			0	0	0			0	75.6	24.4					
Total %	9.1	0	30.1		39.2	0	16.2	3.1		19.3	0	0	0		0	0	31.3	10.1		41.5	8.3	91.7	

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	55	0	213	268	0	113	**41**	154	0	0	0	0	0	230	71	301	723
05:15 PM	**72**	**1**	228	301	0	**140**	30	**170**	0	0	0	0	0	**238**	55	293	764
05:30 PM	52	0	258	310	0	139	17	156	0	0	0	0	0	237	**115**	**352**	**818**
05:45 PM	64	0	**281**	**345**	0	124	7	131	0	0	0	0	0	229	73	302	778
Total Volume	243	1	980	1224	0	516	95	611	0	0	0	0	0	934	314	1248	3083
% App. Total	19.9	0.1	80.1		0	84.5	15.5		0	0	0		0	74.8	25.2		
PHF	.844	.250	.872	.887	.000	.921	.579	.899	.000	.000	.000	.000	.000	.981	.683	.886	.942

Counts Unlimited, Inc.
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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR PM
Site Code : 05122421
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	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	55	0	213	268	0	113	**41**	154	0	0	0	0	0	230	71	301	
+15 mins.	**72**	**1**	228	301	0	**140**	30	**170**	0	0	0	0	0	**238**	55	293	
+30 mins.	52	0	258	310	0	139	17	156	0	0	0	0	0	237	**115**	**352**	
+45 mins.	64	0	**281**	**345**	0	124	7	131	0	0	0	0	0	229	73	302	
Total Volume	243	1	980	1224	0	516	95	611	0	0	0	0	0	934	314	1248	
% App. Total	19.9	0.1	80.1		0	84.5	15.5		0	0	0		0	74.8	25.2		
PHF	.844	.250	.872	.887	.000	.921	.579	.899	.000	.000	.000	.000	.000	.981	.683	.886	

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Groups Printed- Large 2 Axle Vehicles

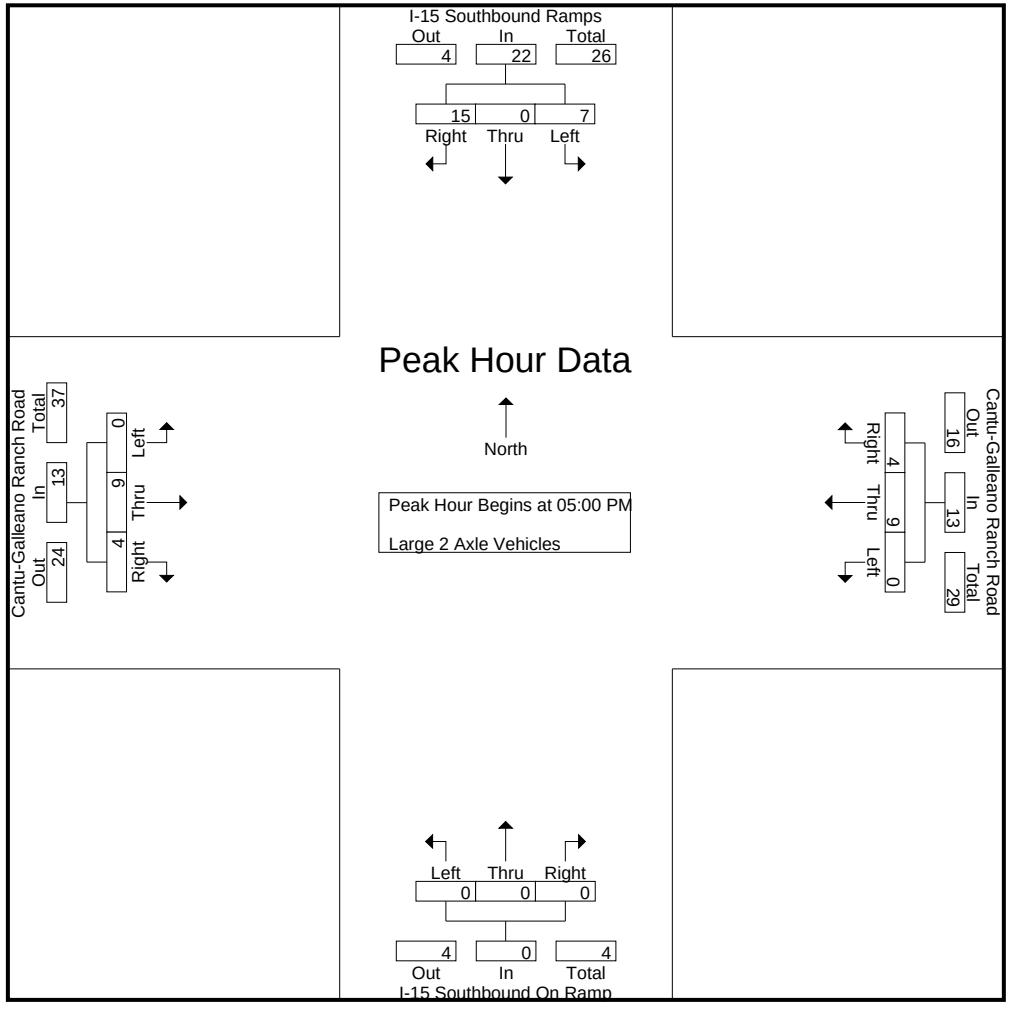
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	0	0	4	0	4	0	2	1	0	3	0	0	0	0	0	0	3	0	0	3	0	10	10
04:15 PM	2	0	4	1	6	0	4	1	0	5	0	0	0	0	0	0	2	1	0	3	1	14	15
04:30 PM	2	0	4	2	6	0	3	0	0	3	0	0	0	0	0	0	6	2	0	8	2	17	19
04:45 PM	2	0	1	0	3	0	0	0	0	0	0	0	0	0	0	0	4	1	0	5	0	8	8
Total	6	0	13	3	19	0	9	2	0	11	0	0	0	0	0	0	15	4	0	19	3	49	52
05:00 PM	1	0	2	2	3	0	3	3	0	6	0	0	0	0	0	0	1	0	0	1	2	10	12
05:15 PM	2	0	4	1	6	0	3	1	0	4	0	0	0	0	0	0	1	1	0	2	1	12	13
05:30 PM	3	0	5	1	8	0	0	0	0	0	0	0	0	0	0	0	2	3	0	5	1	13	14
05:45 PM	1	0	4	2	5	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	2	13	15
Total	7	0	15	6	22	0	9	4	0	13	0	0	0	0	0	0	9	4	0	13	6	48	54
Grand Total	13	0	28	9	41	0	18	6	0	24	0	0	0	0	0	0	24	8	0	32	9	97	106
Apprch %	31.7	0	68.3			0	75	25			0	0	0			0	75	25					
Total %	13.4	0	28.9		42.3	0	18.6	6.2		24.7	0	0	0		0	0	24.7	8.2		33	8.5	91.5	

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	1	0	2	3	0	**3**	**3**	**6**	0	0	0	0	0	1	0	1	10
05:15 PM	2	0	4	6	0	3	1	4	0	0	0	0	0	1	1	2	12
05:30 PM	**3**	0	**5**	**8**	0	0	0	0	0	0	0	0	0	2	**3**	**5**	**13**
05:45 PM	1	0	4	5	0	3	0	3	0	0	0	0	0	**5**	0	5	13
Total Volume	7	0	15	22	0	9	4	13	0	0	0	0	0	9	4	13	48
% App. Total	31.8	0	68.2		0	69.2	30.8		0	0	0		0	69.2	30.8		
PHF	.583	.000	.750	.688	.000	.750	.333	.542	.000	.000	.000	.000	.000	.450	.333	.650	.923

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City of Ontario
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	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	1	0	2	3	0	**3**	**3**	**6**	0	0	0	0	0	1	0	1	
+15 mins.	2	0	4	6	0	3	1	4	0	0	0	0	0	1	1	2	
+30 mins.	**3**	0	**5**	**8**	0	0	0	0	0	0	0	0	0	2	**3**	**5**	
+45 mins.	1	0	4	5	0	3	0	3	0	0	0	0	0	**5**	0	5	
Total Volume	7	0	15	22	0	9	4	13	0	0	0	0	0	9	4	13	
% App. Total	31.8	0	68.2		0	69.2	30.8		0	0	0		0	69.2	30.8		
PHF	.583	.000	.750	.688	.000	.750	.333	.542	.000	.000	.000	.000	.000	.450	.333	.650	

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PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- 3 Axle Vehicles

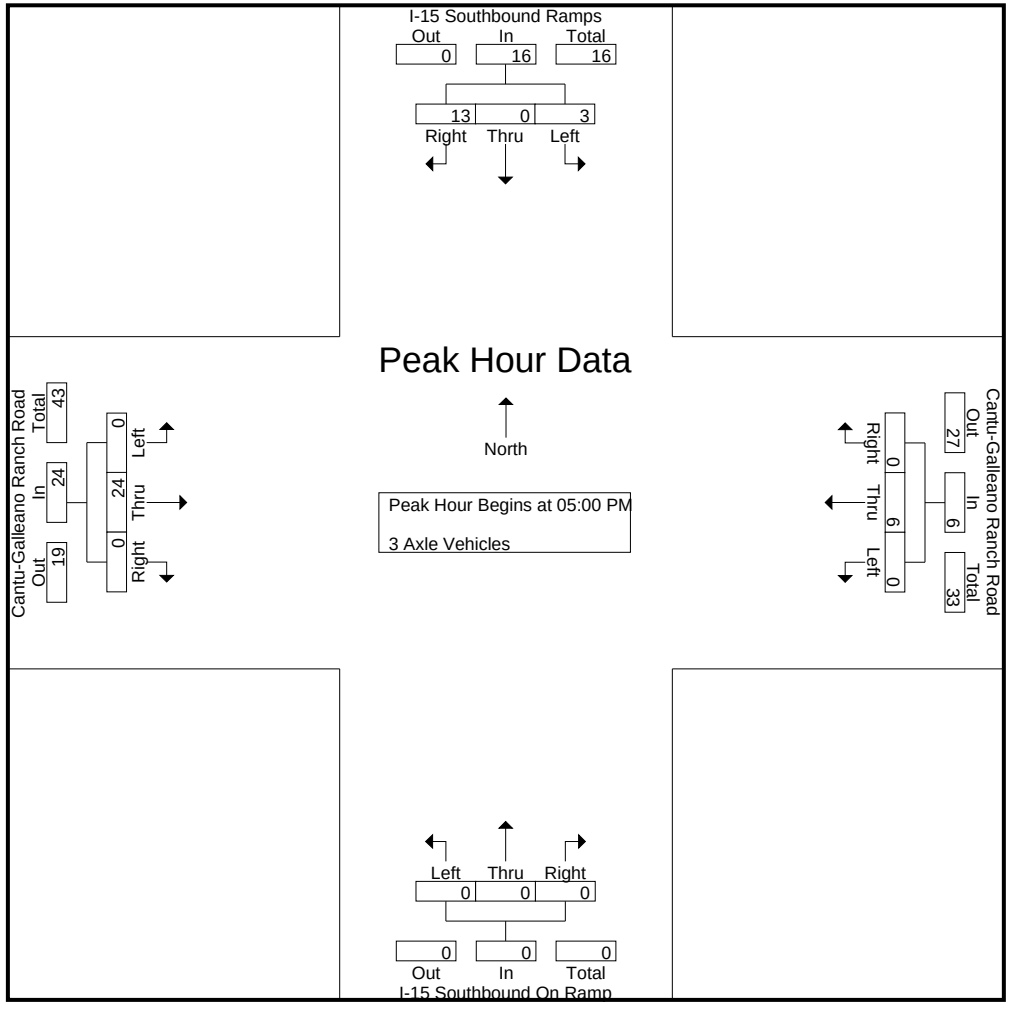
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	1	0	4	0	5	0	2	0	0	2	0	0	0	0	0	0	6	0	0	6	0	13	13
04:15 PM	0	0	0	0	0	0	1	1	0	2	0	0	0	0	0	0	5	0	0	5	0	7	7
04:30 PM	1	0	5	1	6	0	3	0	0	3	0	0	0	0	0	0	5	0	0	5	1	14	15
04:45 PM	0	0	8	1	8	0	0	0	0	0	0	0	0	0	0	0	5	0	0	5	1	13	14
Total	2	0	17	2	19	0	6	1	0	7	0	0	0	0	0	0	21	0	0	21	2	47	49
05:00 PM	0	0	4	2	4	0	2	0	0	2	0	0	0	0	0	0	3	0	0	3	2	9	11
05:15 PM	2	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	8	0	0	8	0	10	10
05:30 PM	0	0	6	0	6	0	3	0	0	3	0	0	0	0	0	0	6	0	0	6	0	15	15
05:45 PM	1	0	3	0	4	0	1	0	0	1	0	0	0	0	0	0	7	0	0	7	0	12	12
Total	3	0	13	2	16	0	6	0	0	6	0	0	0	0	0	0	24	0	0	24	2	46	48
Grand Total	5	0	30	4	35	0	12	1	0	13	0	0	0	0	0	0	45	0	0	45	4	93	97
Apprch %	14.3	0	85.7			0	92.3	7.7			0	0	0			0	100	0					
Total %	5.4	0	32.3		37.6	0	12.9	1.1		14	0	0	0		0	0	48.4	0		48.4	4.1	95.9	

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	0	0	4	4	0	2	0	2	0	0	0	0	0	3	0	3	9
05:15 PM	**2**	0	0	2	0	0	0	0	0	0	0	0	0	**8**	0	**8**	10
05:30 PM	0	0	**6**	**6**	0	**3**	0	**3**	0	0	0	0	0	6	0	6	**15**
05:45 PM	1	0	3	4	0	1	0	1	0	0	0	0	0	7	0	7	12
Total Volume	3	0	13	16	0	6	0	6	0	0	0	0	0	24	0	24	46
% App. Total	18.8	0	81.2		0	100	0		0	0	0		0	100	0		
PHF	.375	.000	.542	.667	.000	.500	.000	.500	.000	.000	.000	.000	.000	.750	.000	.750	.767

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Counts Unlimited, Inc.
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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR PM
Site Code : 05122421
Start Date : 5/10/2022

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	0	0	4	4	0	2	0	2	0	0	0	0	0	3	0	3	
+15 mins.	**2**	0	0	2	0	0	0	0	0	0	0	0	0	**8**	0	**8**	
+30 mins.	0	0	**6**	**6**	0	**3**	0	**3**	0	0	0	0	0	6	0	6	
+45 mins.	1	0	3	4	0	1	0	1	0	0	0	0	0	7	0	7	
Total Volume	3	0	13	16	0	6	0	6	0	0	0	0	0	24	0	24	
% App. Total	18.8	0	81.2		0	100	0		0	0	0		0	100	0		
PHF	.375	.000	.542	.667	.000	.500	.000	.500	.000	.000	.000	.000	.000	.750	.000	.750	

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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

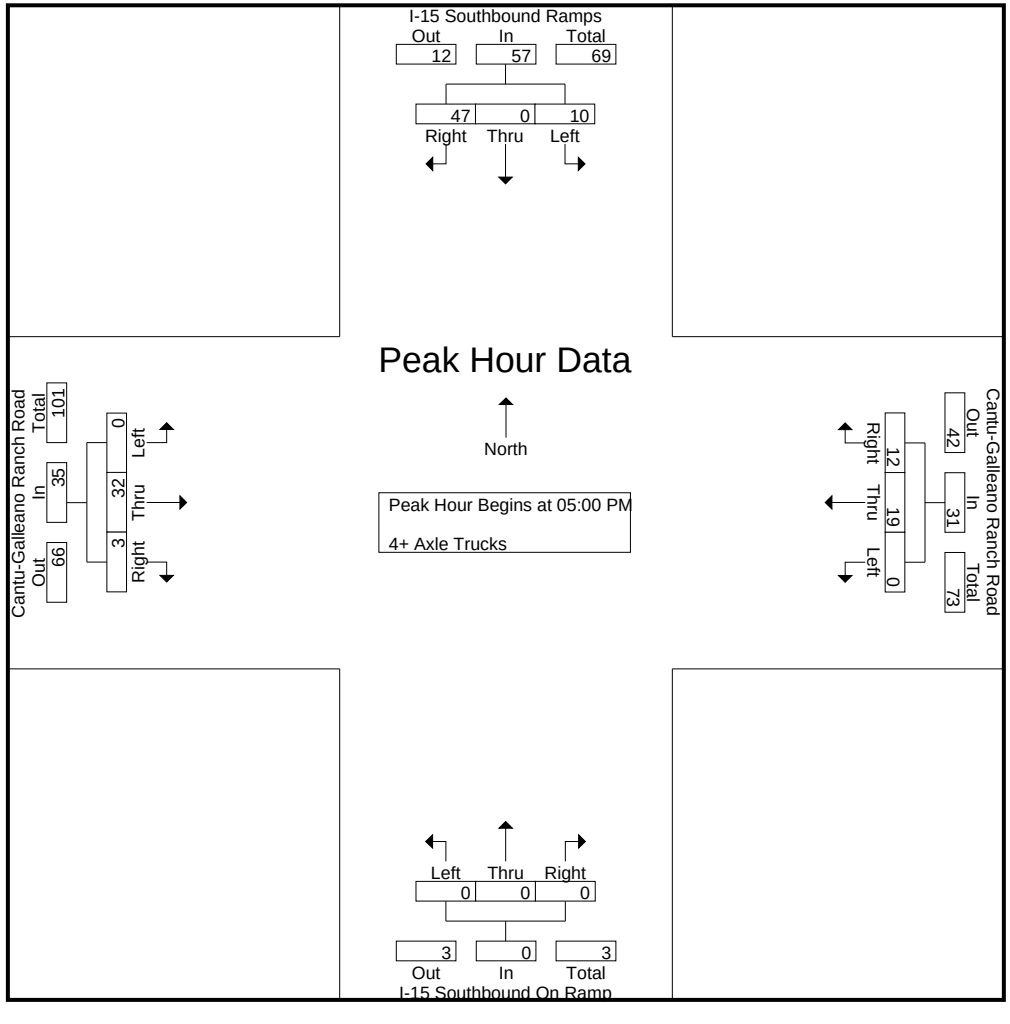
	I-15 Southbound Ramps Southbound					Cantu-Galleano Ranch Road Westbound					I-15 Southbound On Ramp Northbound					Cantu-Galleano Ranch Road Eastbound							
Start Time	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Left	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	5	0	16	2	21	0	3	5	0	8	0	0	0	0	0	0	8	1	0	9	2	38	40
04:15 PM	5	0	9	1	14	0	4	6	0	10	0	0	0	0	0	0	10	0	0	10	1	34	35
04:30 PM	5	0	10	0	15	0	3	4	0	7	0	0	0	0	0	0	8	0	0	8	0	30	30
04:45 PM	5	0	18	4	23	0	6	1	0	7	0	0	0	0	0	0	3	1	0	4	4	34	38
Total	20	0	53	7	73	0	16	16	0	32	0	0	0	0	0	0	29	2	0	31	7	136	143
05:00 PM	2	0	12	3	14	0	8	1	0	9	0	0	0	0	0	0	9	1	0	10	3	33	36
05:15 PM	4	0	10	1	14	0	5	3	0	8	0	0	0	0	0	0	10	1	0	11	1	33	34
05:30 PM	0	0	17	3	17	0	1	5	0	6	0	0	0	0	0	0	8	1	0	9	3	32	35
05:45 PM	4	0	8	1	12	0	5	3	0	8	0	0	0	0	0	0	5	0	0	5	1	25	26
Total	10	0	47	8	57	0	19	12	0	31	0	0	0	0	0	0	32	3	0	35	8	123	131
Grand Total	30	0	100	15	130	0	35	28	0	63	0	0	0	0	0	0	61	5	0	66	15	259	274
Apprch %	23.1	0	76.9			0	55.6	44.4			0	0	0			0	92.4	7.6					
Total %	11.6	0	38.6		50.2	0	13.5	10.8		24.3	0	0	0		0	0	23.6	1.9		25.5	5.5	94.5	

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Entire Intersection Begins at 05:00 PM																	
05:00 PM	2	0	12	14	0	**8**	1	**9**	0	0	0	0	0	9	**1**	10	**33**
05:15 PM	**4**	0	10	14	0	5	3	8	0	0	0	0	0	**10**	1	**11**	33
05:30 PM	0	0	**17**	**17**	0	1	**5**	6	0	0	0	0	0	8	1	9	32
05:45 PM	4	0	8	12	0	5	3	8	0	0	0	0	0	5	0	5	25
Total Volume	10	0	47	57	0	19	12	31	0	0	0	0	0	32	3	35	123
% App. Total	17.5	0	82.5		0	61.3	38.7		0	0	0		0	91.4	8.6		
PHF	.625	.000	.691	.838	.000	.594	.600	.861	.000	.000	.000	.000	.000	.800	.750	.795	.932

Counts Unlimited, Inc.
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(951)268-6268

City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



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City of Ontario
N/S: I-15 Southbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 06_ONT_15S_CGR PM
Site Code : 05122421
Start Date : 5/10/2022

	I-15 Southbound Ramps Southbound				Cantu-Galleano Ranch Road Westbound				I-15 Southbound On Ramp Northbound				Cantu-Galleano Ranch Road Eastbound				
Start Time	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Left	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 05:00 PM to 05:45 PM - Peak 1 of 1																	
Peak Hour for Each Approach Begins at:																	
	05:00 PM				05:00 PM				05:00 PM				05:00 PM				
+0 mins.	2	0	12	14	0	**8**	1	**9**	0	0	0	0	0	9	**1**	10	
+15 mins.	**4**	0	10	14	0	5	3	8	0	0	0	0	0	**10**	1	**11**	
+30 mins.	0	0	**17**	**17**	0	1	**5**	6	0	0	0	0	0	8	1	9	
+45 mins.	4	0	8	12	0	5	3	8	0	0	0	0	0	5	0	5	
Total Volume	10	0	47	57	0	19	12	31	0	0	0	0	0	32	3	35	
% App. Total	17.5	0	82.5		0	61.3	38.7		0	0	0		0	91.4	8.6		
PHF	.625	.000	.691	.838	.000	.594	.600	.861	.000	.000	.000	.000	.000	.800	.750	.795	

Location: Ontario
N/S: I-15 SB Ramps
E/W: Cantu-Galleano Ranch Rd

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg I-15 SB Ramps	East Leg Cantu-Galleano Ranch Rd	South Leg I-15 SB Ramps	West Leg Cantu-Galleano Ranch Rd	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	0	0	0
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

	North Leg I-15 SB Ramps	East Leg Cantu-Galleano Ranch Rd	South Leg I-15 SB Ramps	West Leg Cantu-Galleano Ranch Rd	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

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Location: Ontario
N/S: I-15 SB Ramps
E/W: Cantu-Galleano Ranch Rd

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound I-15 SB Ramps			Westbound Cantu-Galleano Ranch Rd			Northbound I-15 SB Ramps			Eastbound Cantu-Galleano Ranch Rd			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	2	0	2

	Southbound I-15 SB Ramps			Westbound Cantu-Galleano Ranch Rd			Northbound I-15 SB Ramps			Eastbound Cantu-Galleano Ranch Rd			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
5:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	1	0	0	0	0	0	1	0	2

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(951)268-6268

City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

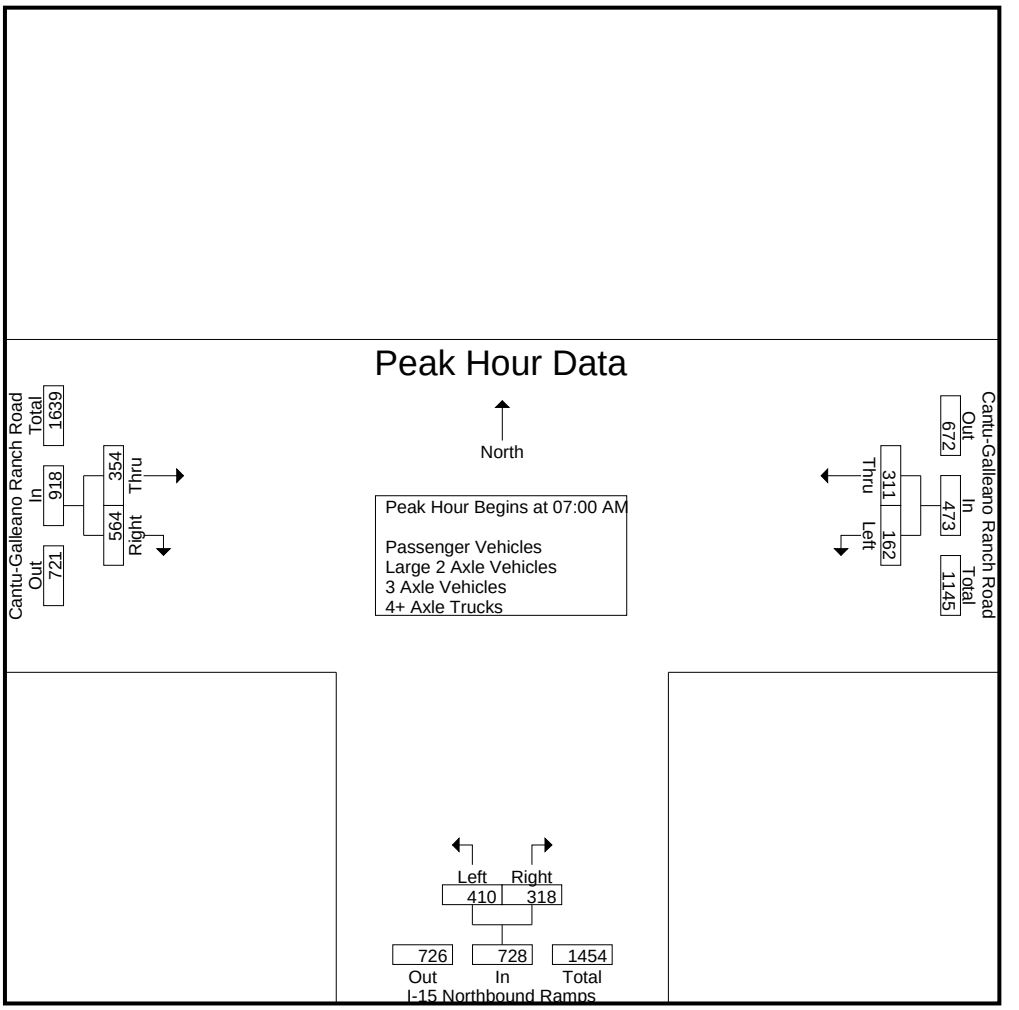
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	43	81	0	124	121	54	27	175	69	144	69	213	96	512	608
07:15 AM	42	81	0	123	119	64	31	183	72	156	93	228	124	534	658
07:30 AM	46	63	0	109	88	93	54	181	91	157	70	248	124	538	662
07:45 AM	31	86	0	117	82	107	43	189	122	107	55	229	98	535	633
Total	162	311	0	473	410	318	155	728	354	564	287	918	442	2119	2561
08:00 AM	37	63	0	100	81	100	54	181	112	99	25	211	79	492	571
08:15 AM	32	79	0	111	77	85	44	162	105	101	35	206	79	479	558
08:30 AM	39	62	0	101	65	61	31	126	78	105	32	183	63	410	473
08:45 AM	35	66	0	101	54	30	21	84	80	93	31	173	52	358	410
Total	143	270	0	413	277	276	150	553	375	398	123	773	273	1739	2012
Grand Total	305	581	0	886	687	594	305	1281	729	962	410	1691	715	3858	4573
Apprch %	34.4	65.6			53.6	46.4			43.1	56.9					
Total %	7.9	15.1		23	17.8	15.4		33.2	18.9	24.9		43.8	15.6	84.4	
Passenger Vehicles	262	467		729	619	512		1412	650	822		1836	0	0	3977
% Passenger Vehicles	85.9	80.4	0	82.3	90.1	86.2	92.1	89	89.2	85.4	88.8	87.4	0	0	87
Large 2 Axle Vehicles	12	25		37	22	14		43	23	34		70	0	0	150
% Large 2 Axle Vehicles	3.9	4.3	0	4.2	3.2	2.4	2.3	2.7	3.2	3.5	3.2	3.3	0	0	3.3
3 Axle Vehicles	2	14		16	11	8		19	16	34		57	0	0	92
% 3 Axle Vehicles	0.7	2.4	0	1.8	1.6	1.3	0	1.2	2.2	3.5	1.7	2.7	0	0	2
4+ Axle Trucks	29	75		104	35	60		112	40	72		138	0	0	354
% 4+ Axle Trucks	9.5	12.9	0	11.7	5.1	10.1	5.6	7.1	5.5	7.5	6.3	6.6	0	0	7.7

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	43	81	**124**	**121**	54	175	69	144	213	512
07:15 AM	42	81	123	119	64	183	72	156	228	534
07:30 AM	**46**	63	109	88	93	181	91	**157**	**248**	**538**
07:45 AM	31	**86**	117	82	**107**	**189**	**122**	107	229	535
Total Volume	162	311	473	410	318	728	354	564	918	2119
% App. Total	34.2	65.8		56.3	43.7		38.6	61.4		
PHF	.880	.904	.954	.847	.743	.963	.725	.898	.925	.985

Counts Unlimited, Inc.
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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Peak Hour Analysis From 07:00 AM to 08:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:15 AM			07:00 AM		
+0 mins.	43	81	**124**	**119**	64	183	69	144	213
+15 mins.	42	81	123	88	93	181	72	156	228
+30 mins.	**46**	63	109	82	**107**	**189**	91	**157**	**248**
+45 mins.	31	**86**	117	81	100	181	**122**	107	229
Total Volume	162	311	473	370	364	734	354	564	918
% App. Total	34.2	65.8		50.4	49.6		38.6	61.4	
PHF	.880	.904	.954	.777	.850	.971	.725	.898	.925

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City of Ontario
N/S: I-15 Northbound Ramps
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Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
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Page No : 1

Groups Printed- Passenger Vehicles

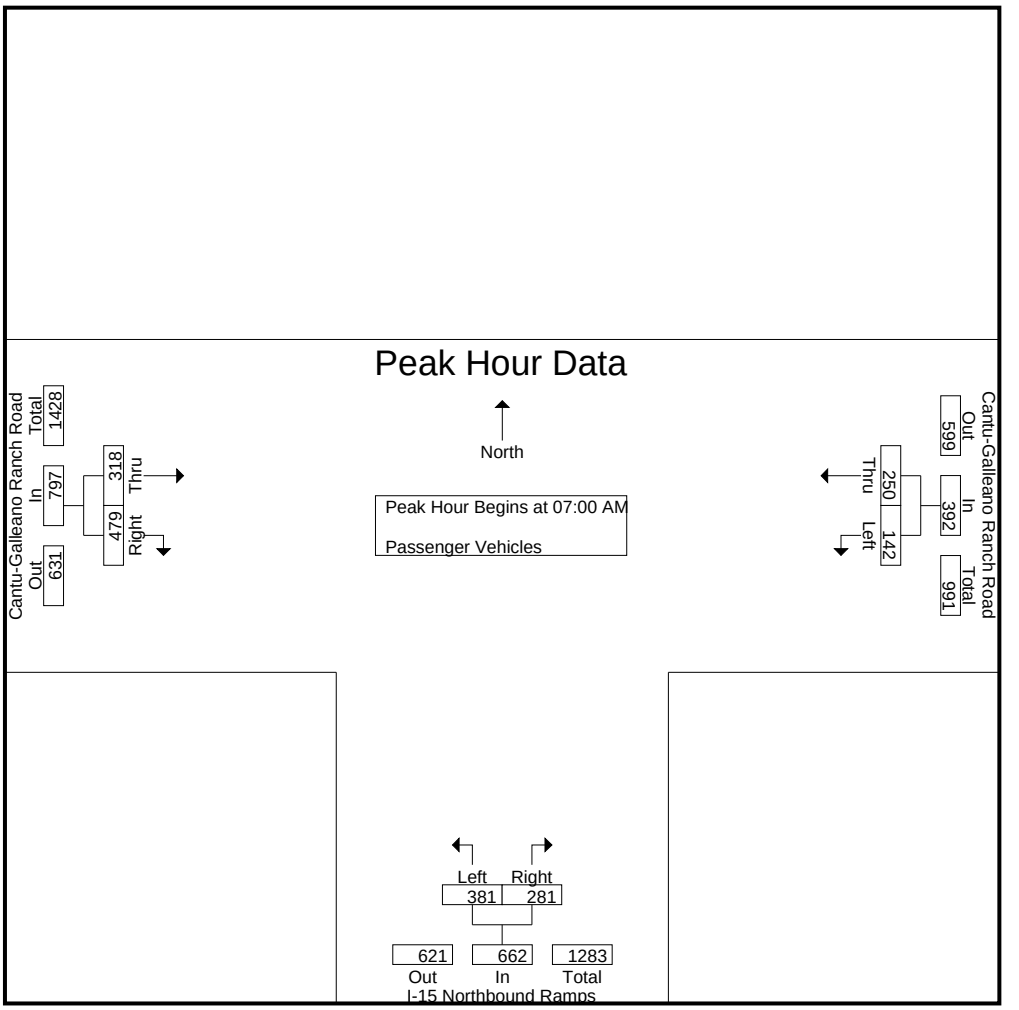
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	38	68	0	106	113	45	23	158	62	123	66	185	89	449	538
07:15 AM	38	67	0	105	114	55	29	169	59	134	84	193	113	467	580
07:30 AM	39	45	0	84	80	84	52	164	81	133	62	214	114	462	576
07:45 AM	27	70	0	97	74	97	42	171	116	89	46	205	88	473	561
Total	142	250	0	392	381	281	146	662	318	479	258	797	404	1851	2255
08:00 AM	29	48	0	77	71	96	52	167	107	89	23	196	75	440	515
08:15 AM	29	65	0	94	68	67	38	135	89	84	29	173	67	402	469
08:30 AM	31	51	0	82	52	44	27	96	61	91	29	152	56	330	386
08:45 AM	31	53	0	84	47	24	18	71	75	79	25	154	43	309	352
Total	120	217	0	337	238	231	135	469	332	343	106	675	241	1481	1722
Grand Total	262	467	0	729	619	512	281	1131	650	822	364	1472	645	3332	3977
Apprch %	35.9	64.1			54.7	45.3			44.2	55.8					
Total %	7.9	14		21.9	18.6	15.4		33.9	19.5	24.7		44.2	16.2	83.8	

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	38	68	**106**	113	45	158	62	123	185	449
07:15 AM	38	67	105	**114**	55	169	59	**134**	193	467
07:30 AM	**39**	45	84	80	84	164	81	133	**214**	462
07:45 AM	27	**70**	97	74	**97**	**171**	**116**	89	205	**473**
Total Volume	142	250	392	381	281	662	318	479	797	1851
% App. Total	36.2	63.8		57.6	42.4		39.9	60.1		
PHF	.910	.893	.925	.836	.724	.968	.685	.894	.931	.978

Counts Unlimited, Inc.
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Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	38	68	**106**	113	45	158	62	123	185
+15 mins.	38	67	105	**114**	55	169	59	**134**	193
+30 mins.	**39**	45	84	80	84	164	81	133	**214**
+45 mins.	27	**70**	97	74	**97**	**171**	**116**	89	205
Total Volume	142	250	392	381	281	662	318	479	797
% App. Total	36.2	63.8		57.6	42.4		39.9	60.1	
PHF	.910	.893	.925	.836	.724	.968	.685	.894	.931

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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Large 2 Axle Vehicles

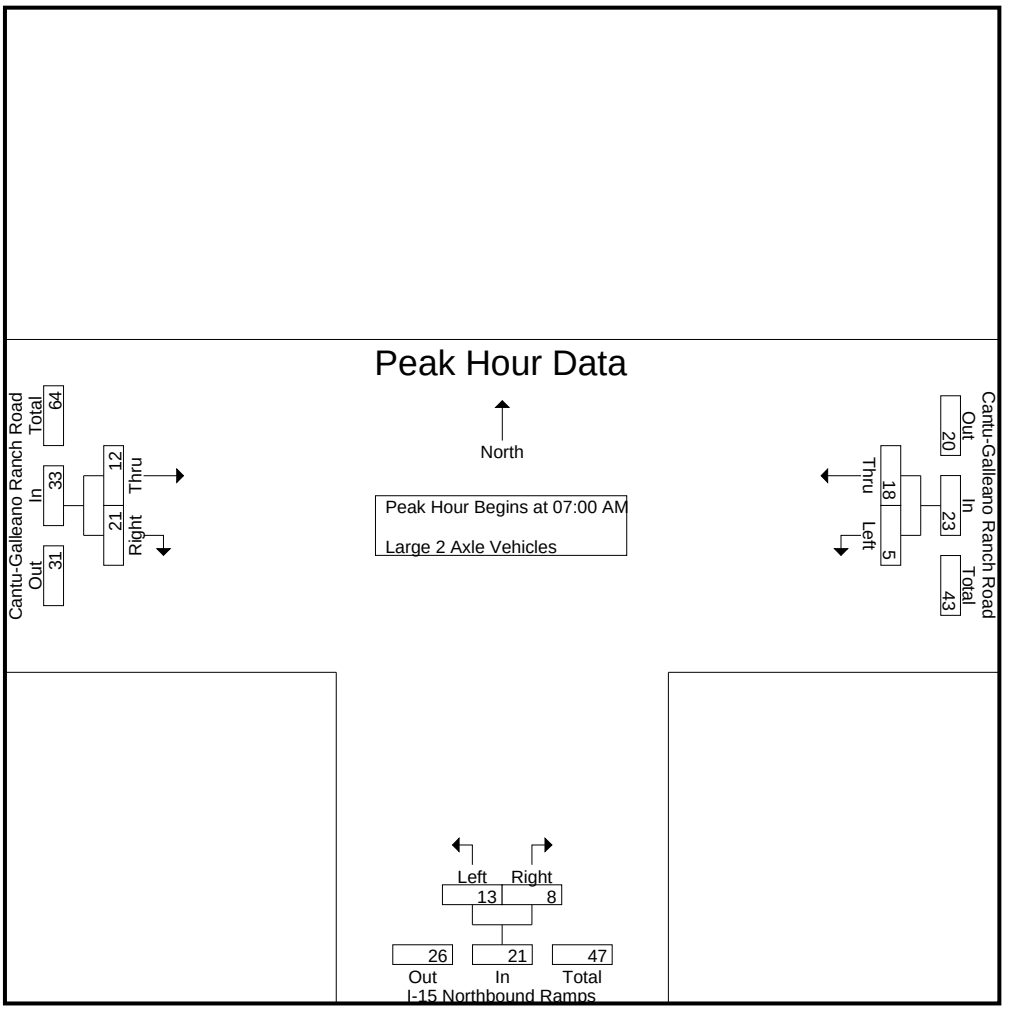
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	3	4	0	7	4	3	2	7	2	6	3	8	5	22	27
07:15 AM	0	5	0	5	2	1	0	3	6	6	2	12	2	20	22
07:30 AM	2	7	0	9	3	3	0	6	2	5	1	7	1	22	23
07:45 AM	0	2	0	2	4	1	1	5	2	4	3	6	4	13	17
Total	5	18	0	23	13	8	3	21	12	21	9	33	12	77	89
08:00 AM	2	2	0	4	3	0	0	3	3	1	0	4	0	11	11
08:15 AM	1	3	0	4	1	5	4	6	1	2	2	3	6	13	19
08:30 AM	2	0	0	2	4	1	0	5	7	4	0	11	0	18	18
08:45 AM	2	2	0	4	1	0	0	1	0	6	2	6	2	11	13
Total	7	7	0	14	9	6	4	15	11	13	4	24	8	53	61
Grand Total	12	25	0	37	22	14	7	36	23	34	13	57	20	130	150
Apprch %	32.4	67.6			61.1	38.9			40.4	59.6					
Total %	9.2	19.2		28.5	16.9	10.8		27.7	17.7	26.2		43.8	13.3	86.7	

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	**3**	4	7	**4**	**3**	**7**	2	**6**	8	**22**
07:15 AM	0	5	5	2	1	3	**6**	6	**12**	20
07:30 AM	2	**7**	**9**	3	3	6	2	5	7	22
07:45 AM	0	2	2	4	1	5	2	4	6	13
Total Volume	5	18	23	13	8	21	12	21	33	77
% App. Total	21.7	78.3		61.9	38.1		36.4	63.6		
PHF	.417	.643	.639	.813	.667	.750	.500	.875	.688	.875

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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	**3**	4	7	**4**	**3**	**7**	2	**6**	8
+15 mins.	0	5	5	2	1	3	**6**	6	**12**
+30 mins.	2	**7**	**9**	3	3	6	2	5	7
+45 mins.	0	2	2	4	1	5	2	4	6
Total Volume	5	18	23	13	8	21	12	21	33
% App. Total	21.7	78.3		61.9	38.1		36.4	63.6	
PHF	.417	.643	.639	.813	.667	.750	.500	.875	.688

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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
Start Date : 5/10/2022

Groups Printed- 3 Axle Vehicles

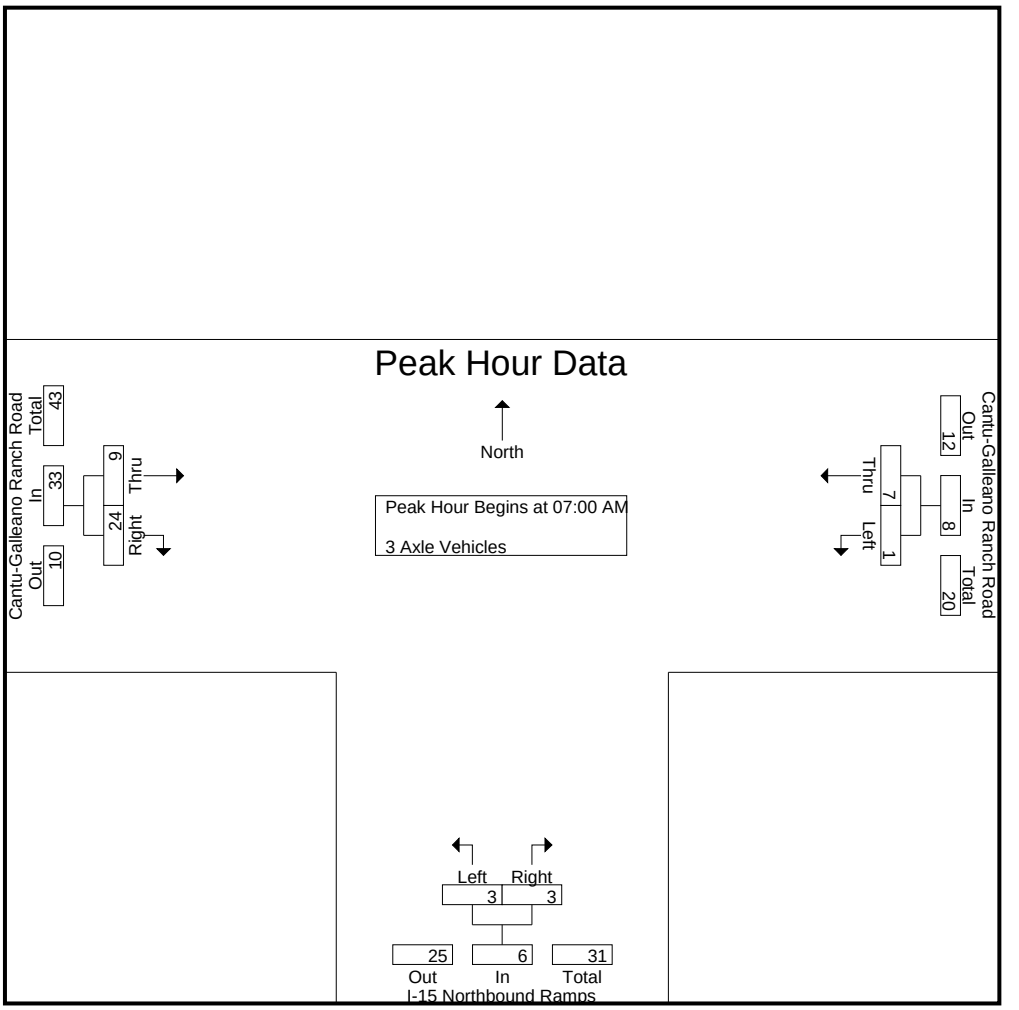
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	0	1	0	1	0	1	0	1	2	6	0	8	0	10	10
07:15 AM	0	0	0	0	0	0	0	0	2	6	1	8	1	8	9
07:30 AM	1	1	0	2	1	0	0	1	4	6	2	10	2	13	15
07:45 AM	0	5	0	5	2	2	0	4	1	6	2	7	2	16	18
Total	1	7	0	8	3	3	0	6	9	24	5	33	5	47	52
08:00 AM	1	1	0	2	3	0	0	3	0	2	1	2	1	7	8
08:15 AM	0	3	0	3	1	1	0	2	2	3	0	5	0	10	10
08:30 AM	0	3	0	3	2	4	0	6	5	3	1	8	1	17	18
08:45 AM	0	0	0	0	2	0	0	2	0	2	0	2	0	4	4
Total	1	7	0	8	8	5	0	13	7	10	2	17	2	38	40
Grand Total	2	14	0	16	11	8	0	19	16	34	7	50	7	85	92
Apprch %	12.5	87.5			57.9	42.1			32	68					
Total %	2.4	16.5		18.8	12.9	9.4		22.4	18.8	40		58.8	7.6	92.4	

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	0	1	1	0	1	1	2	**6**	8	10
07:15 AM	0	0	0	0	0	0	2	6	8	8
07:30 AM	**1**	1	2	1	0	1	**4**	6	**10**	13
07:45 AM	0	**5**	**5**	**2**	**2**	**4**	1	6	7	**16**
Total Volume	1	7	8	3	3	6	9	24	33	47
% App. Total	12.5	87.5		50	50		27.3	72.7		
PHF	.250	.350	.400	.375	.375	.375	.563	1.00	.825	.734

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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
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Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	0	1	1	0	1	1	2	**6**	8
+15 mins.	0	0	0	0	0	0	2	6	8
+30 mins.	**1**	1	2	1	0	1	**4**	6	**10**
+45 mins.	0	**5**	**5**	**2**	**2**	**4**	1	6	7
Total Volume	1	7	8	3	3	6	9	24	33
% App. Total	12.5	87.5		50	50		27.3	72.7	
PHF	.250	.350	.400	.375	.375	.375	.563	1.000	.825

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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- 4+ Axle Trucks

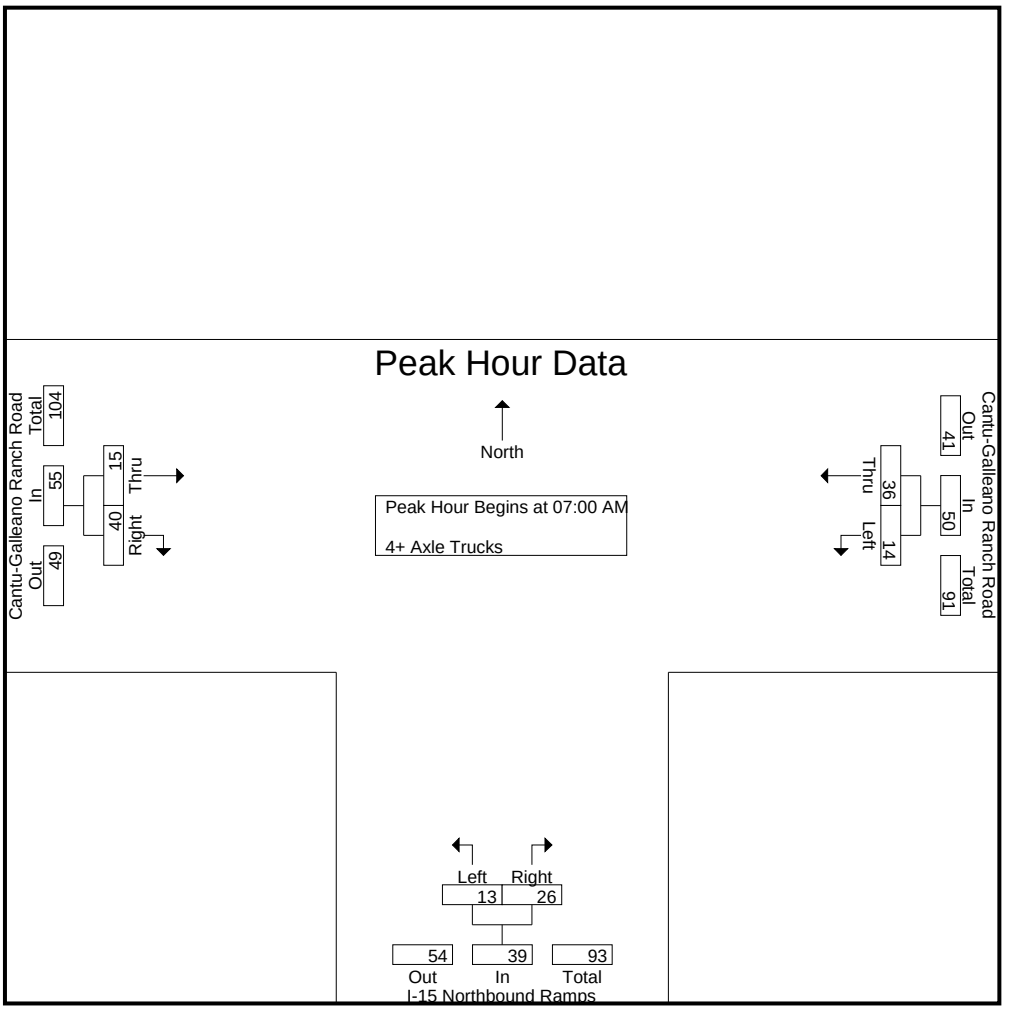
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
07:00 AM	2	8	0	10	4	5	2	9	3	9	0	12	2	31	33
07:15 AM	4	9	0	13	3	8	2	11	5	10	6	15	8	39	47
07:30 AM	4	10	0	14	4	6	2	10	4	13	5	17	7	41	48
07:45 AM	4	9	0	13	2	7	0	9	3	8	4	11	4	33	37
Total	14	36	0	50	13	26	6	39	15	40	15	55	21	144	165
08:00 AM	5	12	0	17	4	4	2	8	2	7	1	9	3	34	37
08:15 AM	2	8	0	10	7	12	2	19	13	12	4	25	6	54	60
08:30 AM	6	8	0	14	7	12	4	19	5	7	2	12	6	45	51
08:45 AM	2	11	0	13	4	6	3	10	5	6	4	11	7	34	41
Total	15	39	0	54	22	34	11	56	25	32	11	57	22	167	189
Grand Total	29	75	0	104	35	60	17	95	40	72	26	112	43	311	354
Apprch %	27.9	72.1			36.8	63.2			35.7	64.3					
Total %	9.3	24.1		33.4	11.3	19.3		30.5	12.9	23.2		36	12.1	87.9	

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 07:00 AM										
07:00 AM	2	8	10	**4**	5	9	3	9	12	31
07:15 AM	**4**	9	13	3	**8**	**11**	**5**	10	15	39
07:30 AM	4	**10**	**14**	4	6	10	4	**13**	**17**	**41**
07:45 AM	4	9	13	2	7	9	3	8	11	33
Total Volume	14	36	50	13	26	39	15	40	55	144
% App. Total	28	72		33.3	66.7		27.3	72.7		
PHF	.875	.900	.893	.813	.813	.886	.750	.769	.809	.878

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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR AM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Peak Hour Analysis From 07:00 AM to 07:45 AM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	07:00 AM			07:00 AM			07:00 AM		
+0 mins.	2	8	10	**4**	5	9	3	9	12
+15 mins.	**4**	9	13	3	**8**	**11**	**5**	10	15
+30 mins.	4	**10**	**14**	4	6	10	4	**13**	**17**
+45 mins.	4	9	13	2	7	9	3	8	11
Total Volume	14	36	50	13	26	39	15	40	55
% App. Total	28	72		33.3	66.7		27.3	72.7	
PHF	.875	.900	.893	.813	.813	.886	.750	.769	.809

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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles - Large 2 Axle Vehicles - 3 Axle Vehicles - 4+ Axle Trucks

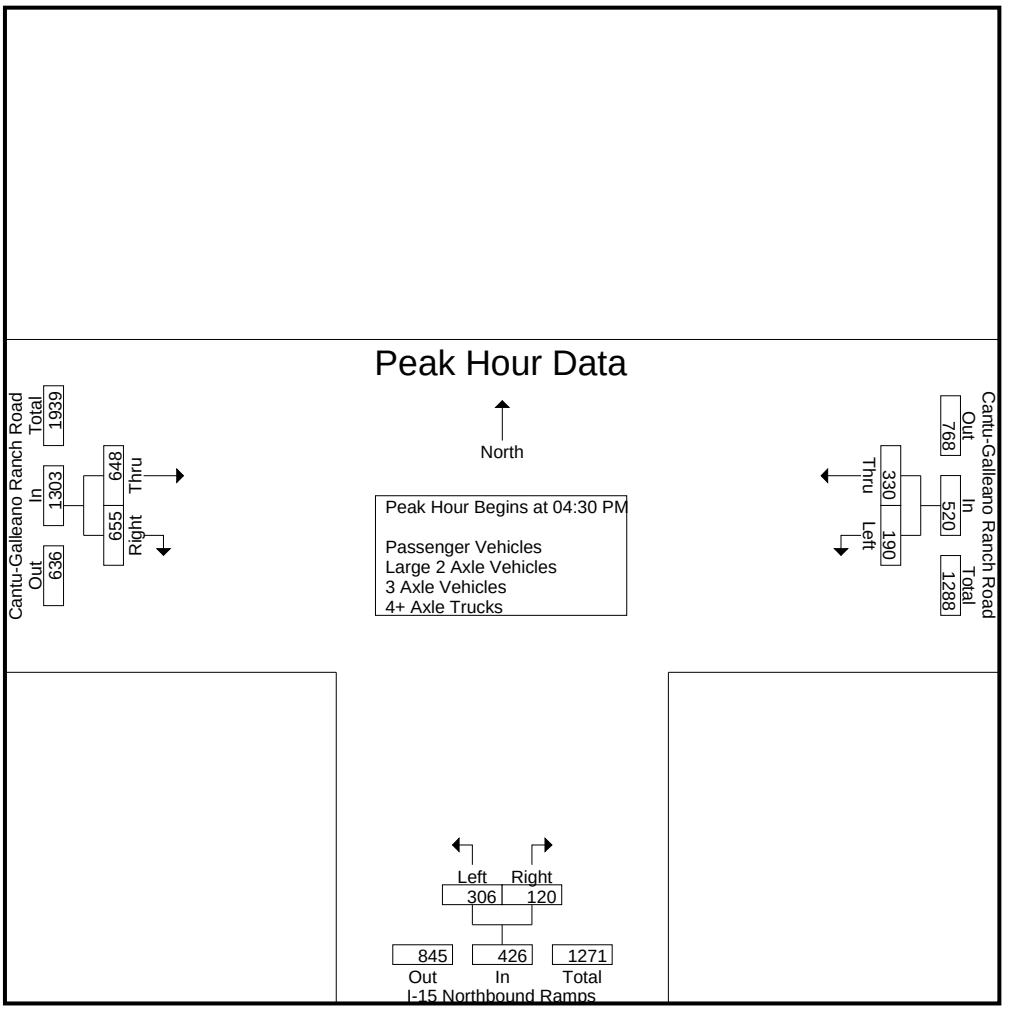
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	55	82	0	137	75	41	22	116	143	163	68	306	90	559	649
04:15 PM	33	56	0	89	51	49	21	100	173	120	34	293	55	482	537
04:30 PM	44	89	0	133	64	35	15	99	159	163	64	322	79	554	633
04:45 PM	58	72	0	130	69	33	13	102	165	170	50	335	63	567	630
Total	190	299	0	489	259	158	71	417	640	616	216	1256	287	2162	2449
05:00 PM	49	94	0	143	71	22	12	93	144	162	61	306	73	542	615
05:15 PM	39	75	0	114	102	30	13	132	180	160	83	340	96	586	682
05:30 PM	51	63	0	114	89	18	11	107	155	164	76	319	87	540	627
05:45 PM	32	52	0	84	102	35	17	137	162	165	36	327	53	548	601
Total	171	284	0	455	364	105	53	469	641	651	256	1292	309	2216	2525
Grand Total	361	583	0	944	623	263	124	886	1281	1267	472	2548	596	4378	4974
Apprch %	38.2	61.8			70.3	29.7			50.3	49.7					
Total %	8.2	13.3		21.6	14.2	6		20.2	29.3	28.9		58.2	12	88	
Passenger Vehicles	329	509		838	584	209		900	1204	1154		2795	0	0	4533
% Passenger Vehicles	91.1	87.3	0	88.8	93.7	79.5	86.3	89.1	94	91.1	92.6	92.5	0	0	91.1
Large 2 Axle Vehicles	7	15		22	16	10		29	24	23		53	0	0	104
% Large 2 Axle Vehicles	1.9	2.6	0	2.3	2.6	3.8	2.4	2.9	1.9	1.8	1.3	1.8	0	0	2.1
3 Axle Vehicles	3	9		12	4	7		15	12	38		62	0	0	89
% 3 Axle Vehicles	0.8	1.5	0	1.3	0.6	2.7	3.2	1.5	0.9	3	2.5	2.1	0	0	1.8
4+ Axle Trucks	22	50		72	19	37		66	41	52		110	0	0	248
% 4+ Axle Trucks	6.1	8.6	0	7.6	3	14.1	8.1	6.5	3.2	4.1	3.6	3.6	0	0	5

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	44	89	133	64	**35**	99	159	163	322	554
04:45 PM	**58**	72	130	69	33	102	165	**170**	335	567
05:00 PM	49	**94**	**143**	71	22	93	144	162	306	542
05:15 PM	39	75	114	**102**	30	**132**	**180**	160	**340**	**586**
Total Volume	190	330	520	306	120	426	648	655	1303	2249
% App. Total	36.5	63.5		71.8	28.2		49.7	50.3		
PHF	.819	.878	.909	.750	.857	.807	.900	.963	.958	.959

Counts Unlimited, Inc.
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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Peak Hour Analysis From 04:00 PM to 05:45 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			05:00 PM			04:30 PM		
+0 mins.	44	89	133	71	22	93	159	163	322
+15 mins.	**58**	72	130	**102**	30	132	165	**170**	335
+30 mins.	49	**94**	**143**	89	18	107	144	162	306
+45 mins.	39	75	114	102	**35**	**137**	**180**	160	**340**
Total Volume	190	330	520	364	105	469	648	655	1303
% App. Total	36.5	63.5		77.6	22.4		49.7	50.3	
PHF	.819	.878	.909	.892	.750	.856	.900	.963	.958

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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 1

Groups Printed- Passenger Vehicles

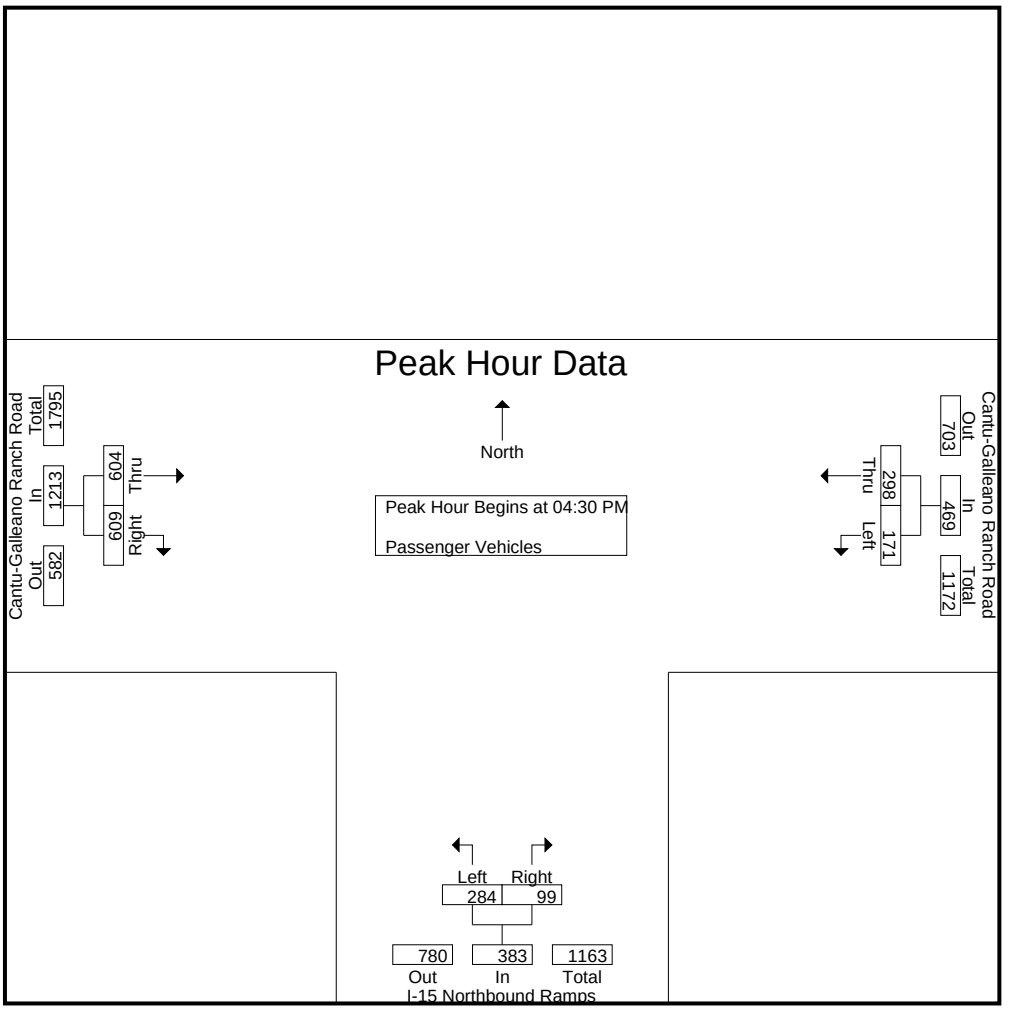
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	51	68	0	119	68	33	18	101	134	147	65	281	83	501	584
04:15 PM	30	43	0	73	46	34	17	80	161	103	29	264	46	417	463
04:30 PM	35	78	0	113	60	27	13	87	140	152	63	292	76	492	568
04:45 PM	55	67	0	122	65	25	11	90	155	159	47	314	58	526	584
Total	171	256	0	427	239	119	59	358	590	561	204	1151	263	1936	2199
05:00 PM	44	86	0	130	61	18	10	79	138	151	60	289	70	498	568
05:15 PM	37	67	0	104	98	29	12	127	171	147	76	318	88	549	637
05:30 PM	47	55	0	102	88	16	10	104	152	144	64	296	74	502	576
05:45 PM	30	45	0	75	98	27	16	125	153	151	33	304	49	504	553
Total	158	253	0	411	345	90	48	435	614	593	233	1207	281	2053	2334
Grand Total	329	509	0	838	584	209	107	793	1204	1154	437	2358	544	3989	4533
Apprch %	39.3	60.7			73.6	26.4			51.1	48.9					
Total %	8.2	12.8		21	14.6	5.2		19.9	30.2	28.9		59.1	12	88	

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	35	78	113	60	27	87	140	152	292	492
04:45 PM	**55**	67	122	65	25	90	155	**159**	314	526
05:00 PM	44	**86**	**130**	61	18	79	138	151	289	498
05:15 PM	37	67	104	**98**	**29**	**127**	**171**	147	**318**	**549**
Total Volume	171	298	469	284	99	383	604	609	1213	2065
% App. Total	36.5	63.5		74.2	25.8		49.8	50.2		
PHF	.777	.866	.902	.724	.853	.754	.883	.958	.954	.940

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	35	78	113	60	27	87	140	152	292
+15 mins.	**55**	67	122	65	25	90	155	**159**	314
+30 mins.	44	**86**	**130**	61	18	79	138	151	289
+45 mins.	37	67	104	**98**	**29**	**127**	**171**	147	**318**
Total Volume	171	298	469	284	99	383	604	609	1213
% App. Total	36.5	63.5		74.2	25.8		49.8	50.2	
PHF	.777	.866	.902	.724	.853	.754	.883	.958	.954

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022

Groups Printed- Large 2 Axle Vehicles

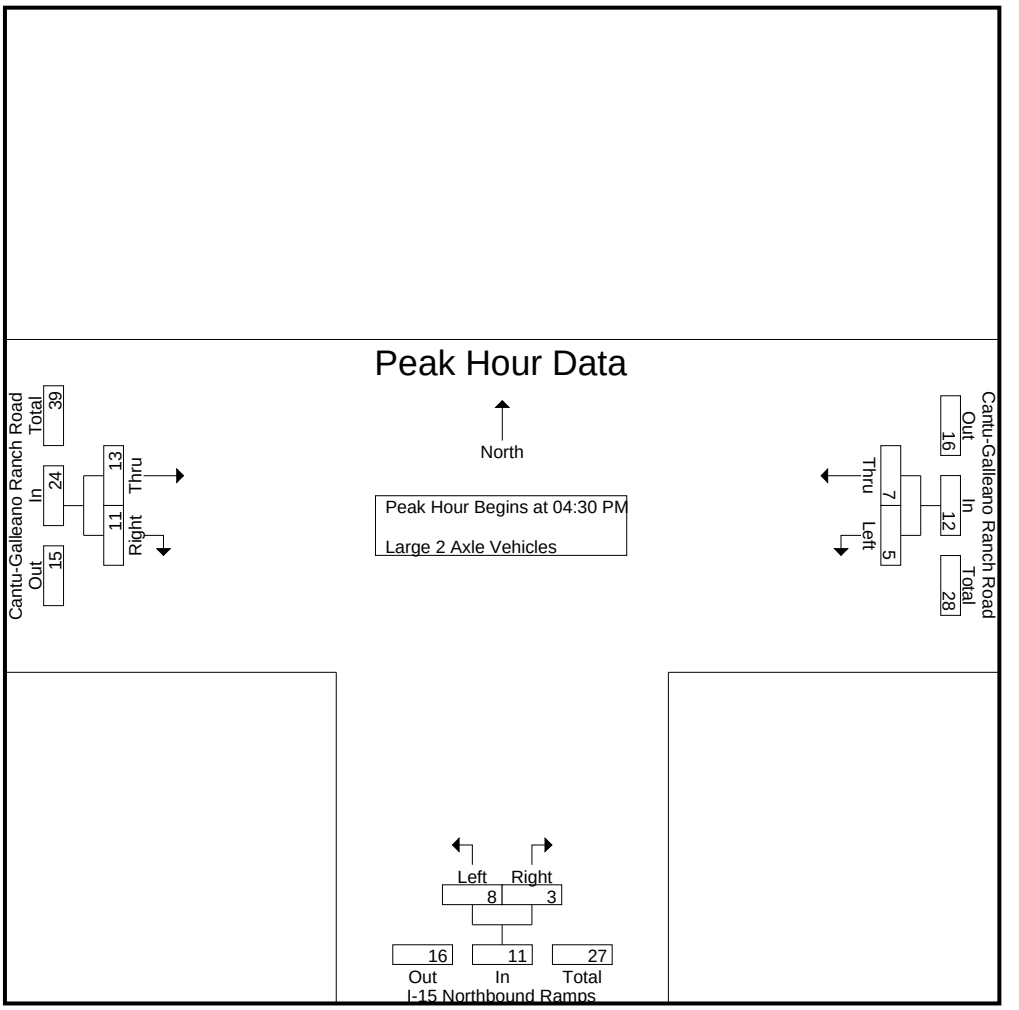
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	1	5	0	6	4	2	1	6	2	1	0	3	1	15	16
04:15 PM	0	2	0	2	3	4	2	7	5	4	1	9	3	18	21
04:30 PM	3	1	0	4	2	3	0	5	8	4	1	12	1	21	22
04:45 PM	0	1	0	1	0	0	0	0	3	5	1	8	1	9	10
Total	4	9	0	13	9	9	3	18	18	14	3	32	6	63	69
05:00 PM	1	3	0	4	4	0	0	4	1	1	0	2	0	10	10
05:15 PM	1	2	0	3	2	0	0	2	1	1	1	2	1	7	8
05:30 PM	1	0	0	1	0	0	0	0	2	3	1	5	1	6	7
05:45 PM	0	1	0	1	1	1	0	2	2	4	1	6	1	9	10
Total	3	6	0	9	7	1	0	8	6	9	3	15	3	32	35
Grand Total	7	15	0	22	16	10	3	26	24	23	6	47	9	95	104
Apprch %	31.8	68.2			61.5	38.5			51.1	48.9					
Total %	7.4	15.8		23.2	16.8	10.5		27.4	25.3	24.2		49.5	8.7	91.3	

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	**3**	1	**4**	2	**3**	**5**	**8**	4	**12**	**21**
04:45 PM	0	1	1	0	0	0	3	**5**	8	9
05:00 PM	1	**3**	4	**4**	0	4	1	1	2	10
05:15 PM	1	2	3	2	0	2	1	1	2	7
Total Volume	5	7	12	8	3	11	13	11	24	47
% App. Total	41.7	58.3		72.7	27.3		54.2	45.8		
PHF	.417	.583	.750	.500	.250	.550	.406	.550	.500	.560

Counts Unlimited, Inc.
PO Box 1178
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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	**3**	1	**4**	2	**3**	**5**	**8**	4	**12**
+15 mins.	0	1	1	0	0	0	3	**5**	8
+30 mins.	1	**3**	4	**4**	0	4	1	1	2
+45 mins.	1	2	3	2	0	2	1	1	2
Total Volume	5	7	12	8	3	11	13	11	24
% App. Total	41.7	58.3		72.7	27.3		54.2	45.8	
PHF	.417	.583	.750	.500	.250	.550	.406	.550	.500

Counts Unlimited, Inc.
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(951)268-6268

City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022

Groups Printed- 3 Axle Vehicles

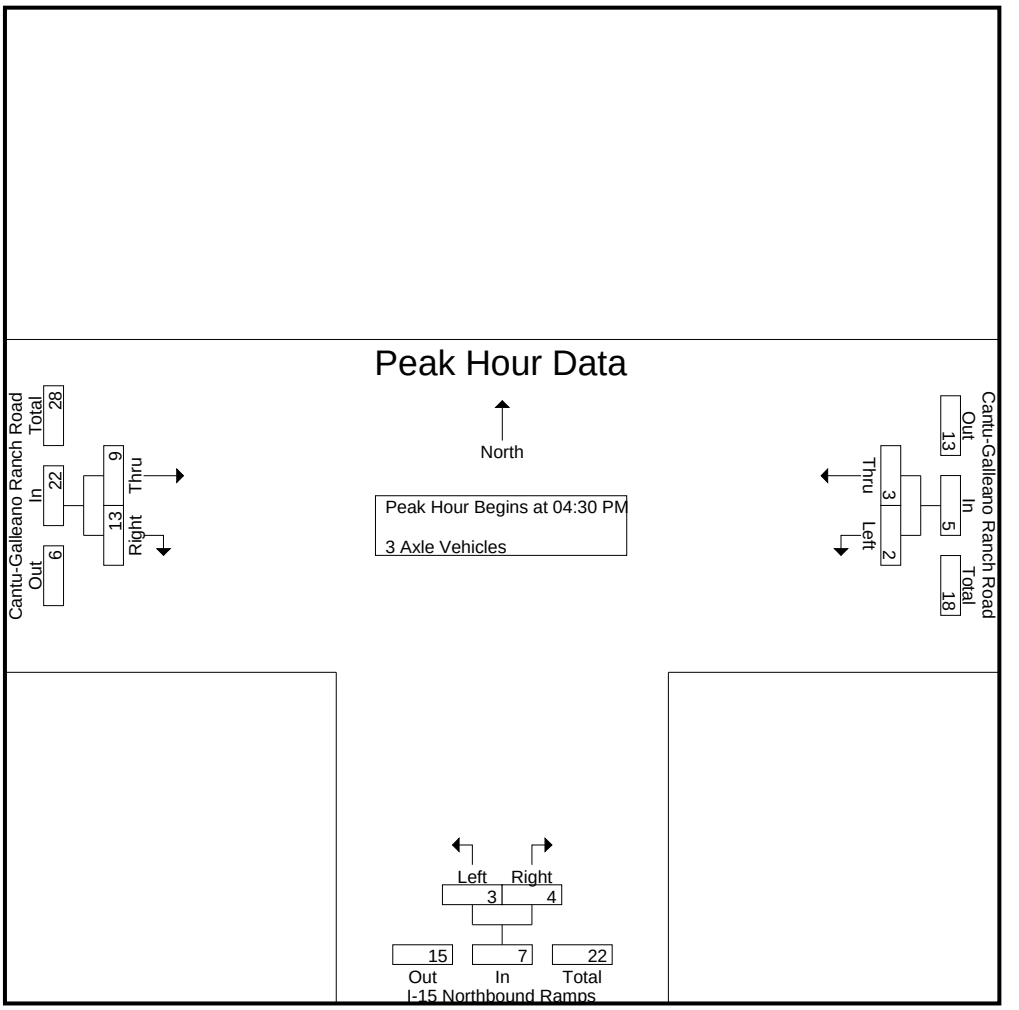
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	1	0	0	1	1	1	0	2	0	6	1	6	1	9	10
04:15 PM	0	2	0	2	0	1	1	1	1	4	2	5	3	8	11
04:30 PM	0	3	0	3	1	1	1	2	3	4	0	7	1	12	13
04:45 PM	1	0	0	1	0	2	1	2	2	3	1	5	2	8	10
Total	2	5	0	7	2	5	3	7	6	17	4	23	7	37	44
05:00 PM	1	0	0	1	2	0	0	2	1	3	0	4	0	7	7
05:15 PM	0	0	0	0	0	1	1	1	3	3	1	6	2	7	9
05:30 PM	0	3	0	3	0	0	0	0	0	9	6	9	6	12	18
05:45 PM	0	1	0	1	0	1	0	1	2	6	1	8	1	10	11
Total	1	4	0	5	2	2	1	4	6	21	8	27	9	36	45
Grand Total	3	9	0	12	4	7	4	11	12	38	12	50	16	73	89
Apprch %	25	75			36.4	63.6			24	76					
Total %	4.1	12.3		16.4	5.5	9.6		15.1	16.4	52.1		68.5	18	82	

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	0	**3**	**3**	1	1	**2**	**3**	**4**	**7**	**12**
04:45 PM	**1**	0	1	0	**2**	2	2	3	5	8
05:00 PM	1	0	1	**2**	0	2	1	3	4	7
05:15 PM	0	0	0	0	1	1	3	3	6	7
Total Volume	2	3	5	3	4	7	9	13	22	34
% App. Total	40	60		42.9	57.1		40.9	59.1		
PHF	.500	.250	.417	.375	.500	.875	.750	.813	.786	.708

Counts Unlimited, Inc.
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Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	0	**3**	**3**	1	1	**2**	**3**	**4**	**7**
+15 mins.	**1**	0	1	0	**2**	2	2	3	5
+30 mins.	1	0	1	**2**	0	2	1	3	4
+45 mins.	0	0	0	0	1	1	3	3	6
Total Volume	2	3	5	3	4	7	9	13	22
% App. Total	40	60		42.9	57.1		40.9	59.1	
PHF	.500	.250	.417	.375	.500	.875	.750	.813	.786

Counts Unlimited, Inc.
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City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022

Groups Printed- 4+ Axle Trucks

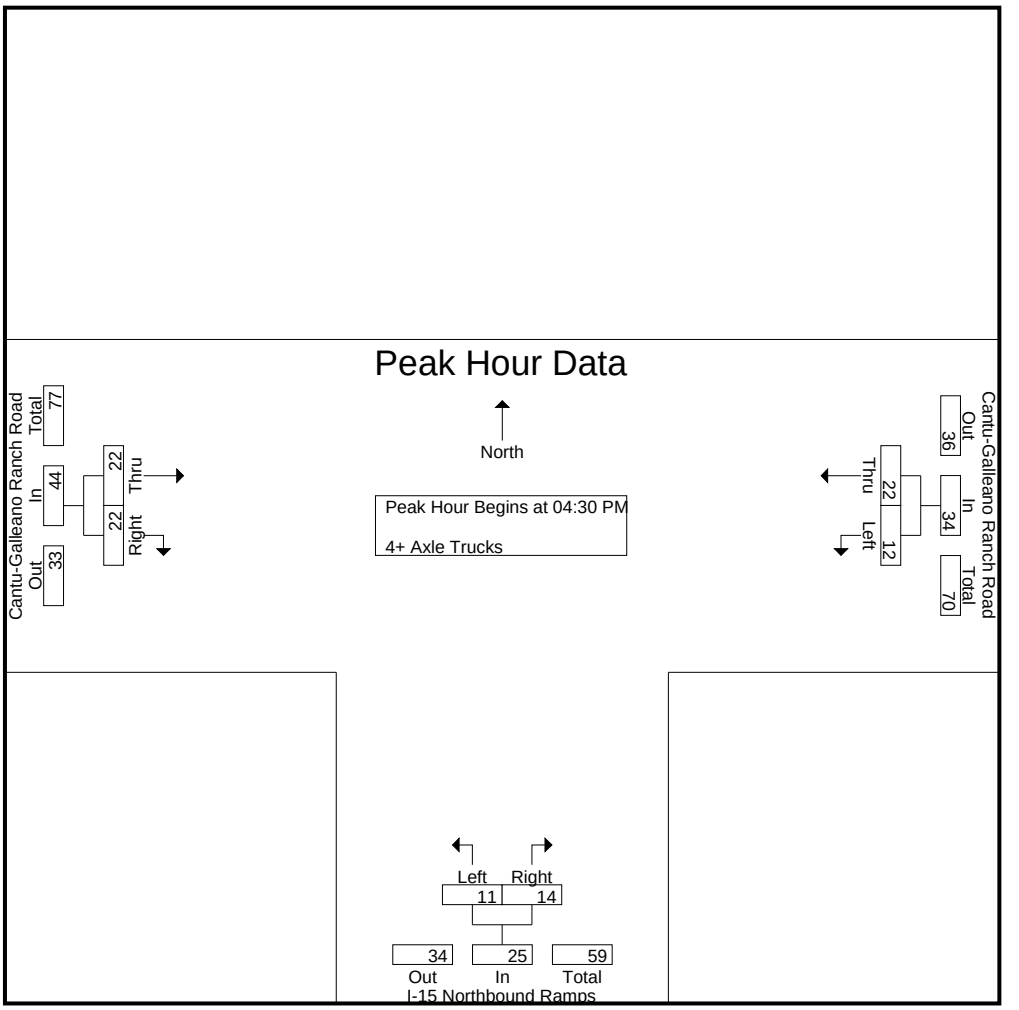
	Cantu-Galleano Ranch Road Westbound				I-15 Northbound Ramps Northbound				Cantu-Galleano Ranch Road Eastbound						
Start Time	Left	Thru	RTOR	App. Total	Left	Right	RTOR	App. Total	Thru	Right	RTOR	App. Total	Exclu. Total	Inclu. Total	Int. Total
04:00 PM	2	9	0	11	2	5	3	7	7	9	2	16	5	34	39
04:15 PM	3	9	0	12	2	10	1	12	6	9	2	15	3	39	42
04:30 PM	6	7	0	13	1	4	1	5	8	3	0	11	1	29	30
04:45 PM	2	4	0	6	4	6	1	10	5	3	1	8	2	24	26
Total	13	29	0	42	9	25	6	34	26	24	5	50	11	126	137
05:00 PM	3	5	0	8	4	4	2	8	4	7	1	11	3	27	30
05:15 PM	1	6	0	7	2	0	0	2	5	9	5	14	5	23	28
05:30 PM	3	5	0	8	1	2	1	3	1	8	5	9	6	20	26
05:45 PM	2	5	0	7	3	6	1	9	5	4	1	9	2	25	27
Total	9	21	0	30	10	12	4	22	15	28	12	43	16	95	111
Grand Total	22	50	0	72	19	37	10	56	41	52	17	93	27	221	248
Apprch %	30.6	69.4			33.9	66.1			44.1	55.9					
Total %	10	22.6		32.6	8.6	16.7		25.3	18.6	23.5		42.1	10.9	89.1	

	Cantu-Galleano Ranch Road Westbound			I-15 Northbound Ramps Northbound			Cantu-Galleano Ranch Road Eastbound			
Start Time	Left	Thru	App. Total	Left	Right	App. Total	Thru	Right	App. Total	Int. Total
Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1										
Peak Hour for Entire Intersection Begins at 04:30 PM										
04:30 PM	**6**	**7**	**13**	1	4	5	**8**	3	11	**29**
04:45 PM	2	4	6	**4**	**6**	**10**	5	3	8	24
05:00 PM	3	5	8	4	4	8	4	7	11	27
05:15 PM	1	6	7	2	0	2	5	**9**	**14**	23
Total Volume	12	22	34	11	14	25	22	22	44	103
% App. Total	35.3	64.7		44	56		50	50		
PHF	.500	.786	.654	.688	.583	.625	.688	.611	.786	.888

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
(951)268-6268

City of Ontario
N/S: I-15 Northbound Ramps
E/W: Cantu-Galleano Ranch Road
Weather: Clear

File Name : 07_ONT_15N_CGR PM
Site Code : 05122421
Start Date : 5/10/2022
Page No : 2



Peak Hour Analysis From 04:30 PM to 05:15 PM - Peak 1 of 1
Peak Hour for Each Approach Begins at:

	04:30 PM			04:30 PM			04:30 PM		
+0 mins.	**6**	**7**	**13**	1	4	5	**8**	3	11
+15 mins.	2	4	6	**4**	**6**	**10**	5	3	8
+30 mins.	3	5	8	4	4	8	4	7	11
+45 mins.	1	6	7	2	0	2	5	**9**	**14**
Total Volume	12	22	34	11	14	25	22	22	44
% App. Total	35.3	64.7		44	56		50	50	
PHF	.500	.786	.654	.688	.583	.625	.688	.611	.786

Location: Ontario
N/S: I-15 NB Ramps
E/W: Cantu-Galleano Ranch Rd

Date: 5/10/2022
Day: Tuesday

PEDESTRIANS

	North Leg I-15 NB Ramps	East Leg Cantu-Galleano Ranch Rd	South Leg I-15 NB Ramps	West Leg Cantu-Galleano Ranch Rd	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
7:00 AM	0	0	1	0	1
7:15 AM	0	0	0	0	0
7:30 AM	0	0	0	0	0
7:45 AM	0	0	0	0	0
8:00 AM	0	0	0	0	0
8:15 AM	0	0	0	0	0
8:30 AM	0	0	0	0	0
8:45 AM	0	0	1	0	1
TOTAL VOLUMES:	0	0	2	0	2

	North Leg I-15 NB Ramps	East Leg Cantu-Galleano Ranch Rd	South Leg I-15 NB Ramps	West Leg Cantu-Galleano Ranch Rd	
	Pedestrians	Pedestrians	Pedestrians	Pedestrians	
4:00 PM	0	0	0	0	0
4:15 PM	0	0	0	0	0
4:30 PM	0	0	0	0	0
4:45 PM	0	0	0	0	0
5:00 PM	0	0	0	0	0
5:15 PM	0	0	0	0	0
5:30 PM	0	0	0	0	0
5:45 PM	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0

Counts Unlimited, Inc.
PO Box 1178
Corona, CA 92878
951-268-6268

Location: Ontario
N/S: I-15 NB Ramps
E/W: Cantu-Galleano Ranch Rd

Date: 5/10/2022
Day: Tuesday

BICYCLES

	Southbound I-15 NB Ramps			Westbound Cantu-Galleano Ranch Rd			Northbound I-15 NB Ramps			Eastbound Cantu-Galleano Ranch Rd			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
7:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
7:15 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
7:30 AM	0	0	0	0	0	0	0	0	0	0	1	0	1
7:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:15 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:30 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
8:45 AM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	0	0	0	0	0	0	2	0	2

	Southbound I-15 NB Ramps			Westbound Cantu-Galleano Ranch Rd			Northbound I-15 NB Ramps			Eastbound Cantu-Galleano Ranch Rd			
	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	
4:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:15 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
4:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	1
5:15 PM	0	0	0	0	1	0	0	0	0	0	0	0	1
5:30 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
5:45 PM	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL VOLUMES:	0	0	0	0	1	0	0	0	0	0	1	0	2

Counts Unlimited, Inc.

PO Box 1178
Corona, CA 92878
Phone: (951) 268-6268
email: counts@countsunlimited.com

City of Chino
Euclid Avenue
S/ Walnut Street
24 Hour Directional Classification Count

CHN003
Site Code: 051-22422

Northbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	105	12	0	3	5	0	1	32	0	0	0	0	158
01:00	0	90	3	0	3	7	0	1	39	0	1	0	0	144
02:00	0	82	3	0	6	8	0	3	31	0	0	0	0	133
03:00	0	99	3	0	3	5	0	1	53	0	2	0	0	166
04:00	0	181	12	0	12	14	0	0	71	0	4	0	0	294
05:00	0	204	42	0	19	23	0	10	98	0	4	0	0	400
06:00	1	290	77	0	32	29	0	14	125	0	4	0	0	572
07:00	1	**529**	139	3	31	22	0	**23**	144	**1**	**9**	0	0	**902**
08:00	0	501	131	**5**	41	37	1	11	126	0	1	0	0	854
09:00	**3**	427	141	1	34	28	0	11	159	0	0	0	0	804
10:00	2	470	**178**	3	45	21	**3**	11	**164**	0	1	**1**	0	899
11:00	1	475	169	1	**48**	**39**	0	17	141	0	5	0	0	896
12 PM	1	506	158	**4**	**36**	42	0	3	**155**	2	3	0	0	910
13:00	3	523	156	3	34	**50**	0	11	137	0	3	0	0	920
14:00	3	622	**198**	3	30	40	0	**17**	101	0	3	0	0	**1017**
15:00	3	632	155	3	34	33	0	9	98	0	2	0	**1**	970
16:00	1	608	158	1	31	31	**1**	14	67	0	0	0	0	912
17:00	3	**667**	135	1	16	15	0	15	81	0	1	0	0	934
18:00	**5**	546	133	1	14	14	0	7	68	**3**	**5**	0	0	796
19:00	2	408	81	1	4	16	0	8	52	0	1	0	1	574
20:00	1	351	54	2	8	13	0	4	50	0	0	0	0	483
21:00	0	269	31	0	2	9	0	4	42	0	1	0	0	358
22:00	0	230	22	0	1	14	0	1	44	0	1	0	0	313
23:00	0	182	13	0	2	5	0	1	23	0	0	0	0	226
Total	30	8997	2204	32	489	520	5	197	2101	6	51	1	2	14635
Percent	0.2%	61.5%	15.1%	0.2%	3.3%	3.6%	0.0%	1.3%	14.4%	0.0%	0.3%	0.0%	0.0%	
AM Peak	09:00	07:00	10:00	08:00	11:00	11:00	10:00	07:00	10:00	07:00	07:00	10:00		07:00
Vol.	3	529	178	5	48	39	3	23	164	1	9	1		902
PM Peak	18:00	17:00	14:00	12:00	12:00	13:00	16:00	14:00	12:00	18:00	18:00		15:00	14:00
Vol.	5	667	198	4	36	50	1	17	155	3	5		1	1017
Grand Total	30	8997	2204	32	489	520	5	197	2101	6	51	1	2	14635
Percent	0.2%	61.5%	15.1%	0.2%	3.3%	3.6%	0.0%	1.3%	14.4%	0.0%	0.3%	0.0%	0.0%	

Counts Unlimited, Inc.

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City of Chino
Euclid Avenue
S/ Walnut Street
24 Hour Directional Classification Count

CHN003
Site Code: 051-22422

Southbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	93	7	0	6	8	0	6	36	**1**	0	1	0	158
01:00	1	84	11	0	4	13	0	1	33	0	0	**3**	0	150
02:00	0	70	10	0	2	13	0	1	38	0	1	3	0	138
03:00	0	141	21	0	4	11	0	3	41	0	0	2	0	223
04:00	1	352	58	0	12	11	0	5	40	0	1	2	0	482
05:00	2	563	169	0	19	27	0	11	55	0	3	1	0	850
06:00	2	664	**199**	3	31	30	3	13	75	0	**12**	0	0	1032
07:00	3	524	179	**4**	25	19	2	6	111	0	3	0	0	876
08:00	2	**678**	198	2	38	24	**4**	21	111	0	1	0	0	**1079**
09:00	**5**	527	142	2	53	31	2	17	**147**	0	0	1	**1**	928
10:00	3	500	170	2	52	**44**	3	**23**	139	1	4	0	1	942
11:00	1	478	154	2	**57**	37	4	14	143	1	9	0	0	900
12 PM	1	507	**140**	2	44	28	**8**	18	**148**	**1**	3	0	0	900
13:00	2	554	131	3	**48**	31	1	20	142	0	**8**	0	0	940
14:00	3	519	119	**4**	36	**32**	5	24	138	0	5	0	0	885
15:00	0	664	124	2	48	29	1	**32**	98	1	3	0	0	**1002**
16:00	3	646	138	2	27	19	0	20	94	1	3	0	0	953
17:00	**4**	**739**	104	1	25	15	0	7	69	0	5	0	0	969
18:00	1	602	91	1	18	22	0	7	94	0	3	0	0	839
19:00	2	484	75	2	13	17	0	7	70	0	0	0	**1**	671
20:00	1	418	45	1	8	8	0	5	49	0	0	0	0	535
21:00	3	440	33	0	3	13	0	2	58	0	1	1	0	554
22:00	1	259	25	0	6	11	0	4	67	0	0	**3**	0	376
23:00	2	186	20	0	3	6	0	2	44	0	0	3	0	266
Total	43	10692	2363	33	582	499	33	269	2040	6	65	20	3	16648
Percent	0.3%	64.2%	14.2%	0.2%	3.5%	3.0%	0.2%	1.6%	12.3%	0.0%	0.4%	0.1%	0.0%	
AM Peak	09:00	08:00	06:00	07:00	11:00	10:00	08:00	10:00	09:00	00:00	06:00	01:00	09:00	08:00
Vol.	5	678	199	4	57	44	4	23	147	1	12	3	1	1079
PM Peak	17:00	17:00	12:00	14:00	13:00	14:00	12:00	15:00	12:00	12:00	13:00	22:00	19:00	15:00
Vol.	4	739	140	4	48	32	8	32	148	1	8	3	1	1002
Grand Total	43	10692	2363	33	582	499	33	269	2040	6	65	20	3	16648
Percent	0.3%	64.2%	14.2%	0.2%	3.5%	3.0%	0.2%	1.6%	12.3%	0.0%	0.4%	0.1%	0.0%	

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City of Chino
Euclid Avenue
S/ Walnut Street
24 Hour Directional Classification Count
Northbound, Southbound

CHN003
Site Code: 051-22422

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	198	19	0	9	13	0	7	68	**1**	0	1	0	316
01:00	1	174	14	0	7	20	0	2	72	0	1	**3**	0	294
02:00	0	152	13	0	8	21	0	4	69	0	1	3	0	271
03:00	0	240	24	0	7	16	0	4	94	0	2	2	0	389
04:00	1	533	70	0	24	25	0	5	111	0	5	2	0	776
05:00	2	767	211	0	38	50	0	21	153	0	7	1	0	1250
06:00	3	954	276	3	63	59	3	27	200	0	**16**	0	0	1604
07:00	4	1053	318	**7**	56	41	2	29	255	1	12	0	0	1778
08:00	2	**1179**	329	7	79	61	5	32	237	0	2	0	0	**1933**
09:00	**8**	954	283	3	87	59	2	28	**306**	0	0	1	**1**	1732
10:00	5	970	**348**	5	97	65	**6**	**34**	303	1	5	1	1	1841
11:00	2	953	323	3	**105**	**76**	4	31	284	1	14	0	0	1796
12 PM	2	1013	298	6	80	70	**8**	21	**303**	**3**	6	0	0	1810
13:00	5	1077	287	6	**82**	**81**	1	31	279	0	**11**	0	0	1860
14:00	6	1141	**317**	**7**	66	72	5	**41**	239	0	8	0	0	1902
15:00	3	1296	279	5	82	62	1	41	196	1	5	0	1	**1972**
16:00	4	1254	296	3	58	50	1	34	161	1	3	0	0	1865
17:00	**7**	**1406**	239	2	41	30	0	22	150	0	6	0	0	1903
18:00	6	1148	224	2	32	36	0	14	162	3	8	0	0	1635
19:00	4	892	156	3	17	33	0	15	122	0	1	0	**2**	1245
20:00	2	769	99	3	16	21	0	9	99	0	0	0	0	1018
21:00	3	709	64	0	5	22	0	6	100	0	2	1	0	912
22:00	1	489	47	0	7	25	0	5	111	0	1	**3**	0	689
23:00	2	368	33	0	5	11	0	3	67	0	0	3	0	492
Total	73	19689	4567	65	1071	1019	38	466	4141	12	116	21	5	31283
Percent	0.2%	62.9%	14.6%	0.2%	3.4%	3.3%	0.1%	1.5%	13.2%	0.0%	0.4%	0.1%	0.0%	
AM Peak	09:00	08:00	10:00	07:00	11:00	11:00	10:00	10:00	09:00	00:00	06:00	01:00	09:00	08:00
Vol.	8	1179	348	7	105	76	6	34	306	1	16	3	1	1933
PM Peak	17:00	17:00	14:00	14:00	13:00	13:00	12:00	14:00	12:00	12:00	13:00	22:00	19:00	15:00
Vol.	7	1406	317	7	82	81	8	41	303	3	11	3	2	1972
Grand Total	73	19689	4567	65	1071	1019	38	466	4141	12	116	21	5	31283
Percent	0.2%	62.9%	14.6%	0.2%	3.4%	3.3%	0.1%	1.5%	13.2%	0.0%	0.4%	0.1%	0.0%	

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City of Chino
Schaefer Avenue
E/ Fern Avenue
24 Hour Directional Classification Count

CHN002
Site Code: 051-22422

Eastbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	12	0	0	1	0	0	0	1	0	0	0	0	14
01:00	0	18	4	0	0	1	0	0	0	0	0	0	0	23
02:00	0	13	3	0	0	1	0	0	0	0	0	0	0	17
03:00	0	17	4	0	0	0	0	0	1	0	0	0	0	22
04:00	0	41	3	0	4	0	0	0	1	0	0	0	0	49
05:00	**2**	53	17	0	5	1	0	0	1	0	0	0	0	79
06:00	0	139	25	**1**	7	**2**	0	0	2	0	0	0	0	176
07:00	1	209	28	0	4	1	0	**1**	2	0	0	0	0	246
08:00	0	**271**	42	0	**9**	1	0	0	1	0	0	0	0	**324**
09:00	0	154	35	0	3	0	0	0	**4**	0	0	0	0	196
10:00	0	191	**50**	0	7	0	0	0	2	0	0	0	0	250
11:00	2	215	42	0	9	1	0	1	0	0	0	0	0	270
12 PM	0	309	50	**1**	**9**	1	0	**2**	3	0	0	0	0	375
13:00	1	240	58	0	5	**2**	0	1	4	0	0	0	0	311
14:00	**3**	320	78	1	3	0	0	1	3	0	0	0	0	409
15:00	2	464	**102**	0	5	2	0	0	**6**	0	0	0	0	581
16:00	2	487	95	0	9	1	0	0	0	0	0	0	0	594
17:00	2	**542**	75	0	7	0	0	0	0	0	0	0	0	**626**
18:00	0	378	61	0	7	1	0	0	2	0	0	0	0	449
19:00	1	173	25	0	2	0	0	1	2	0	0	0	0	204
20:00	1	163	31	0	0	0	0	0	1	0	0	0	0	196
21:00	0	108	4	0	0	0	0	0	0	0	0	0	0	112
22:00	0	68	7	0	0	0	0	0	0	0	0	0	0	75
23:00	0	24	3	0	0	0	0	0	1	0	0	0	0	28
Total	17	4609	842	3	96	15	0	7	37	0	0	0	0	5626
Percent	0.3%	81.9%	15.0%	0.1%	1.7%	0.3%	0.0%	0.1%	0.7%	0.0%	0.0%	0.0%	0.0%	
AM Peak	05:00	08:00	10:00	06:00	08:00	06:00		07:00	09:00					08:00
Vol.	2	271	50	1	9	2		1	4					324
PM Peak	14:00	17:00	15:00	12:00	12:00	13:00		12:00	15:00					17:00
Vol.	3	542	102	1	9	2		2	6					626
Grand Total	17	4609	842	3	96	15	0	7	37	0	0	0	0	5626
Percent	0.3%	81.9%	15.0%	0.1%	1.7%	0.3%	0.0%	0.1%	0.7%	0.0%	0.0%	0.0%	0.0%	

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City of Chino
Schaefer Avenue
E/ Fern Avenue
24 Hour Directional Classification Count

CHN002
Site Code: 051-22422

Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	21	1	0	0	0	0	0	0	0	0	0	0	22
01:00	0	13	0	0	0	0	0	0	0	0	0	0	0	13
02:00	0	9	0	0	0	0	0	0	0	0	0	0	0	9
03:00	0	18	1	0	1	0	0	0	0	0	0	0	0	20
04:00	0	58	6	0	0	0	0	0	0	0	0	0	0	64
05:00	0	98	12	0	0	0	0	**1**	0	0	0	0	0	111
06:00	**1**	139	**38**	**1**	5	0	0	0	1	0	0	0	0	185
07:00	0	165	20	0	3	0	0	1	0	0	**1**	0	0	190
08:00	1	**180**	31	0	3	0	0	1	0	0	0	0	0	**216**
09:00	1	148	35	0	7	0	0	1	**3**	0	0	0	0	195
10:00	0	173	27	0	**8**	0	0	0	1	0	0	0	0	209
11:00	1	154	35	0	7	**2**	0	0	3	0	0	0	0	202
12 PM	0	192	26	1	4	0	0	0	**1**	0	0	0	0	224
13:00	0	200	40	1	3	1	0	**1**	1	0	0	0	0	247
14:00	0	169	37	**3**	3	0	0	0	1	0	0	0	0	213
15:00	0	206	40	1	**11**	0	0	1	0	0	0	0	0	259
16:00	**1**	209	**45**	0	3	0	0	0	1	0	0	0	0	259
17:00	0	**224**	34	0	3	**2**	0	1	1	0	0	0	0	**265**
18:00	0	206	29	0	3	0	0	0	0	0	0	0	0	238
19:00	0	159	15	0	1	0	0	0	1	0	0	0	0	176
20:00	0	138	4	0	0	0	0	0	0	0	0	0	0	142
21:00	0	97	7	0	1	0	0	0	0	0	0	0	0	105
22:00	0	63	1	0	0	0	0	0	0	0	0	0	0	64
23:00	0	49	0	0	0	0	0	0	0	0	0	0	0	49
Total	5	3088	484	7	66	5	0	7	14	0	1	0	0	3677
Percent	0.1%	84.0%	13.2%	0.2%	1.8%	0.1%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	
AM Peak	06:00	08:00	06:00	06:00	10:00	11:00		05:00	09:00		07:00			08:00
Vol.	1	180	38	1	8	2		1	3		1			216
PM Peak	16:00	17:00	16:00	14:00	15:00	17:00		13:00	12:00					17:00
Vol.	1	224	45	3	11	2		1	1					265
Grand Total	5	3088	484	7	66	5	0	7	14	0	1	0	0	3677
Percent	0.1%	84.0%	13.2%	0.2%	1.8%	0.1%	0.0%	0.2%	0.4%	0.0%	0.0%	0.0%	0.0%	

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City of Chino
Schaefer Avenue
E/ Fern Avenue
24 Hour Directional Classification Count

CHN002
Site Code: 051-22422

Eastbound, Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	33	1	0	1	0	0	0	1	0	0	0	0	36
01:00	0	31	4	0	0	1	0	0	0	0	0	0	0	36
02:00	0	22	3	0	0	1	0	0	0	0	0	0	0	26
03:00	0	35	5	0	1	0	0	0	1	0	0	0	0	42
04:00	0	99	9	0	4	0	0	0	1	0	0	0	0	113
05:00	2	151	29	0	5	1	0	1	1	0	0	0	0	190
06:00	1	278	63	**2**	12	2	0	0	3	0	0	0	0	361
07:00	1	374	48	0	7	1	0	**2**	2	0	**1**	0	0	436
08:00	1	**451**	73	0	12	1	0	1	1	0	0	0	0	**540**
09:00	1	302	70	0	10	0	0	1	**7**	0	0	0	0	391
10:00	0	364	**77**	0	15	0	0	0	3	0	0	0	0	459
11:00	**3**	369	77	0	**16**	**3**	0	1	3	0	0	0	0	472
12 PM	0	501	76	2	13	1	0	**2**	4	0	0	0	0	599
13:00	1	440	98	1	8	**3**	0	2	5	0	0	0	0	558
14:00	**3**	489	115	**4**	6	0	0	1	4	0	0	0	0	622
15:00	2	670	**142**	1	**16**	2	0	1	**6**	0	0	0	0	840
16:00	3	696	140	0	12	1	0	0	1	0	0	0	0	853
17:00	2	**766**	109	0	10	2	0	1	1	0	0	0	0	**891**
18:00	0	584	90	0	10	1	0	0	2	0	0	0	0	687
19:00	1	332	40	0	3	0	0	1	3	0	0	0	0	380
20:00	1	301	35	0	0	0	0	0	1	0	0	0	0	338
21:00	0	205	11	0	1	0	0	0	0	0	0	0	0	217
22:00	0	131	8	0	0	0	0	0	0	0	0	0	0	139
23:00	0	73	3	0	0	0	0	0	1	0	0	0	0	77
Total	22	7697	1326	10	162	20	0	14	51	0	1	0	0	9303
Percent	0.2%	82.7%	14.3%	0.1%	1.7%	0.2%	0.0%	0.2%	0.5%	0.0%	0.0%	0.0%	0.0%	
AM Peak	11:00	08:00	10:00	06:00	11:00	11:00		07:00	09:00		07:00			08:00
Vol.	3	451	77	2	16	3		2	7		1			540
PM Peak	14:00	17:00	15:00	14:00	15:00	13:00		12:00	15:00					17:00
Vol.	3	766	142	4	16	3		2	6					891
Grand Total	22	7697	1326	10	162	20	0	14	51	0	1	0	0	9303
Percent	0.2%	82.7%	14.3%	0.1%	1.7%	0.2%	0.0%	0.2%	0.5%	0.0%	0.0%	0.0%	0.0%	

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City of Ontario
Hamner Avenue
N/ Ontario Ranch Road
24 Hour Directional Classification Count

ONT003
Site Code: 051-22421

Northbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	42	0	0	0	3	0	0	5	0	**3**	0	0	53
01:00	0	48	8	0	1	3	0	0	2	0	1	0	0	63
02:00	0	45	12	0	0	1	0	0	4	0	3	0	0	65
03:00	1	118	17	0	0	1	0	0	3	0	0	0	0	140
04:00	2	276	33	0	3	4	0	0	11	**2**	0	0	0	331
05:00	2	345	61	0	13	7	2	0	8	2	0	0	0	440
06:00	**3**	407	66	0	14	5	0	0	12	1	2	0	0	510
07:00	2	**783**	**94**	0	12	4	**3**	2	19	0	0	0	0	**919**
08:00	1	732	94	0	**15**	10	3	2	34	1	0	**1**	0	893
09:00	0	385	61	0	13	9	0	4	**37**	0	0	0	0	509
10:00	0	312	58	**1**	9	**11**	1	**5**	27	0	0	0	0	424
11:00	0	329	68	0	13	8	3	5	30	1	0	0	0	457
12 PM	0	396	43	0	15	**15**	1	3	25	0	0	0	0	498
13:00	**2**	416	60	0	12	10	1	6	**26**	0	0	0	0	533
14:00	1	450	62	**1**	**20**	9	0	16	20	0	0	0	0	579
15:00	0	**530**	**101**	1	15	13	0	11	20	0	0	0	0	**691**
16:00	0	480	76	0	13	6	**2**	**17**	19	**1**	0	0	0	614
17:00	0	432	65	0	12	12	0	13	13	0	0	0	0	547
18:00	0	392	47	0	1	14	0	12	14	0	2	0	0	482
19:00	1	261	21	0	6	6	0	7	11	0	0	0	0	313
20:00	1	242	19	0	1	3	0	4	9	0	1	0	0	280
21:00	0	162	8	0	2	5	1	1	8	0	2	0	0	189
22:00	0	111	3	0	3	4	0	2	10	0	1	0	0	134
23:00	1	47	5	0	1	2	0	0	6	0	**3**	0	0	65
Total	17	7741	1082	3	194	165	17	110	373	8	18	1	0	9729
Percent	0.2%	79.6%	11.1%	0.0%	2.0%	1.7%	0.2%	1.1%	3.8%	0.1%	0.2%	0.0%	0.0%	
AM Peak	06:00	07:00	07:00	10:00	08:00	10:00	07:00	10:00	09:00	04:00	00:00	08:00		07:00
Vol.	3	783	94	1	15	11	3	5	37	2	3	1		919
PM Peak	13:00	15:00	15:00	14:00	14:00	12:00	16:00	16:00	13:00	16:00	23:00			15:00
Vol.	2	530	101	1	20	15	2	17	26	1	3			691
Grand Total	17	7741	1082	3	194	165	17	110	373	8	18	1	0	9729
Percent	0.2%	79.6%	11.1%	0.0%	2.0%	1.7%	0.2%	1.1%	3.8%	0.1%	0.2%	0.0%	0.0%	

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City of Ontario
Hamner Avenue
N/ Ontario Ranch Road
24 Hour Directional Classification Count

ONT003
Site Code: 051-22421

Southbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	**1**	68	3	0	0	3	0	0	7	0	0	0	0	82
01:00	0	51	2	0	2	2	**2**	2	4	0	**4**	0	0	69
02:00	0	48	2	0	1	1	0	0	6	0	3	0	0	61
03:00	0	49	0	0	0	5	0	2	10	0	1	0	0	67
04:00	0	57	8	0	5	4	0	5	9	0	0	0	0	88
05:00	0	66	10	0	3	6	0	2	6	0	1	0	0	94
06:00	0	152	32	0	9	8	0	0	21	0	3	0	0	225
07:00	0	250	45	**1**	9	10	0	2	27	0	1	0	0	345
08:00	1	248	48	1	6	10	0	2	23	0	1	0	0	340
09:00	0	206	36	0	**21**	**12**	0	6	**29**	0	0	0	0	310
10:00	0	249	41	1	6	7	0	**9**	21	0	0	0	0	334
11:00	1	**267**	**56**	0	12	8	1	3	17	0	0	0	0	**365**
12 PM	1	365	73	0	**12**	**10**	0	5	13	0	0	0	0	479
13:00	0	338	77	0	7	5	0	7	16	0	0	0	0	450
14:00	**5**	430	98	0	6	8	0	**10**	17	0	0	0	0	574
15:00	4	617	**117**	0	11	9	0	6	**25**	0	0	0	0	789
16:00	3	573	92	0	9	7	0	3	10	0	0	0	0	697
17:00	2	**729**	108	0	4	2	0	4	14	0	0	0	0	**863**
18:00	1	550	80	0	8	6	0	4	11	0	0	0	0	660
19:00	0	357	48	0	1	7	0	4	13	0	0	0	0	430
20:00	1	265	18	0	1	6	0	4	7	0	0	0	0	302
21:00	0	226	19	0	0	4	0	2	7	0	0	0	0	258
22:00	0	157	2	0	1	2	0	1	8	0	**4**	0	0	175
23:00	1	86	4	0	0	2	0	1	9	0	1	0	0	104
Total	21	6404	1019	3	134	144	3	84	330	0	19	0	0	8161
Percent	0.3%	78.5%	12.5%	0.0%	1.6%	1.8%	0.0%	1.0%	4.0%	0.0%	0.2%	0.0%	0.0%	
AM Peak	00:00	11:00	11:00	07:00	09:00	09:00	01:00	10:00	09:00		01:00			11:00
Vol.	1	267	56	1	21	12	2	9	29		4			365
PM Peak	14:00	17:00	15:00		12:00	12:00		14:00	15:00		22:00			17:00
Vol.	5	729	117		12	10		10	25		4			863
Grand Total	21	6404	1019	3	134	144	3	84	330	0	19	0	0	8161
Percent	0.3%	78.5%	12.5%	0.0%	1.6%	1.8%	0.0%	1.0%	4.0%	0.0%	0.2%	0.0%	0.0%	

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City of Ontario
Hamner Avenue
N/ Ontario Ranch Road
24 Hour Directional Classification Count
Northbound, Southbound

ONT003
Site Code: 051-22421

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	1	110	3	0	0	6	0	0	12	0	3	0	0	135
01:00	0	99	10	0	3	5	2	2	6	0	5	0	0	132
02:00	0	93	14	0	1	2	0	0	10	0	**6**	0	0	126
03:00	1	167	17	0	0	6	0	2	13	0	1	0	0	207
04:00	2	333	41	0	8	8	0	5	20	**2**	0	0	0	419
05:00	2	411	71	0	16	13	2	2	14	2	1	0	0	534
06:00	**3**	559	98	0	23	13	0	0	33	1	5	0	0	735
07:00	2	**1033**	139	1	21	14	3	4	46	0	1	0	0	**1264**
08:00	2	980	**142**	1	21	20	3	4	57	1	1	**1**	0	1233
09:00	0	591	97	0	**34**	**21**	0	10	**66**	0	0	0	0	819
10:00	0	561	99	**2**	15	18	1	**14**	48	0	0	0	0	758
11:00	1	596	124	0	25	16	**4**	8	47	1	0	0	0	822
12 PM	1	761	116	0	**27**	**25**	1	8	38	0	0	0	0	977
13:00	2	754	137	0	19	15	1	13	42	0	0	0	0	983
14:00	**6**	880	160	**1**	26	17	0	**26**	37	0	0	0	0	1153
15:00	4	1147	**218**	1	26	22	0	17	**45**	0	0	0	0	**1480**
16:00	3	1053	168	0	22	13	**2**	20	29	**1**	0	0	0	1311
17:00	2	**1161**	173	0	16	14	0	17	27	0	0	0	0	1410
18:00	1	942	127	0	9	20	0	16	25	0	2	0	0	1142
19:00	1	618	69	0	7	13	0	11	24	0	0	0	0	743
20:00	2	507	37	0	2	9	0	8	16	0	1	0	0	582
21:00	0	388	27	0	2	9	1	3	15	0	2	0	0	447
22:00	0	268	5	0	4	6	0	3	18	0	**5**	0	0	309
23:00	2	133	9	0	1	4	0	1	15	0	4	0	0	169
Total	38	14145	2101	6	328	309	20	194	703	8	37	1	0	17890
Percent	0.2%	79.1%	11.7%	0.0%	1.8%	1.7%	0.1%	1.1%	3.9%	0.0%	0.2%	0.0%	0.0%	
AM Peak	06:00	07:00	08:00	10:00	09:00	09:00	11:00	10:00	09:00	04:00	02:00	08:00		07:00
Vol.	3	1033	142	2	34	21	4	14	66	2	6	1		1264
PM Peak	14:00	17:00	15:00	14:00	12:00	12:00	16:00	14:00	15:00	16:00	22:00			15:00
Vol.	6	1161	218	1	27	25	2	26	45	1	5			1480
Grand Total	38	14145	2101	6	328	309	20	194	703	8	37	1	0	17890
Percent	0.2%	79.1%	11.7%	0.0%	1.8%	1.7%	0.1%	1.1%	3.9%	0.0%	0.2%	0.0%	0.0%	

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City of Ontario
Ontario Ranch Road
W/ Hamner Avenue
24 Hour Directional Classification Count

ONT002
Site Code: 051-22421

Eastbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	47	3	0	0	3	0	2	6	0	0	0	0	61
01:00	0	34	4	0	2	2	0	0	10	0	1	0	0	53
02:00	0	28	1	0	1	5	0	1	6	1	3	0	0	46
03:00	0	55	3	0	1	5	0	**3**	9	0	2	0	0	78
04:00	0	104	8	0	2	4	0	0	19	1	7	0	0	145
05:00	1	177	29	0	7	11	1	1	34	2	7	0	0	270
06:00	0	268	55	1	9	12	**6**	1	39	3	5	0	0	399
07:00	3	**502**	58	1	10	17	2	1	41	1	2	0	0	**638**
08:00	0	425	50	0	15	11	4	2	38	3	**14**	2	**1**	565
09:00	**4**	396	58	1	14	18	2	2	39	1	5	1	0	541
10:00	0	381	**67**	1	**21**	19	3	1	43	0	10	2	0	548
11:00	1	362	67	**3**	12	**26**	1	3	**49**	**4**	13	**4**	0	545
12 PM	0	361	72	**1**	19	21	0	3	**48**	0	5	0	**1**	531
13:00	2	435	82	1	28	**25**	1	5	40	0	**8**	1	0	628
14:00	1	579	157	1	**33**	23	**2**	7	34	0	7	1	0	845
15:00	**3**	640	**193**	1	15	20	0	10	25	0	3	**2**	0	**912**
16:00	3	638	136	1	25	12	0	**13**	24	0	0	0	0	852
17:00	2	**706**	112	1	14	23	0	8	24	0	1	0	0	891
18:00	0	617	74	1	3	25	0	6	20	0	0	0	0	746
19:00	1	358	57	1	2	11	1	5	12	0	0	0	0	448
20:00	0	268	24	1	3	11	0	4	11	0	0	0	0	322
21:00	0	203	9	1	2	4	0	2	11	0	0	0	0	232
22:00	0	123	8	0	2	10	0	4	13	0	0	1	0	161
23:00	0	97	1	0	1	5	0	0	11	0	0	0	0	115
Total	21	7804	1328	17	241	323	23	84	606	16	93	14	2	10572
Percent	0.2%	73.8%	12.6%	0.2%	2.3%	3.1%	0.2%	0.8%	5.7%	0.2%	0.9%	0.1%	0.0%	
AM Peak	09:00	07:00	10:00	11:00	10:00	11:00	06:00	03:00	11:00	11:00	08:00	11:00	08:00	07:00
Vol.	4	502	67	3	21	26	6	3	49	4	14	4	1	638
PM Peak	15:00	17:00	15:00	12:00	14:00	13:00	14:00	16:00	12:00		13:00	15:00	12:00	15:00
Vol.	3	706	193	1	33	25	2	13	48		8	2	1	912
Grand Total	21	7804	1328	17	241	323	23	84	606	16	93	14	2	10572
Percent	0.2%	73.8%	12.6%	0.2%	2.3%	3.1%	0.2%	0.8%	5.7%	0.2%	0.9%	0.1%	0.0%	

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City of Ontario
Ontario Ranch Road
W/ Hamner Avenue
24 Hour Directional Classification Count

ONT002
Site Code: 051-22421

Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	78	4	0	1	6	0	1	16	0	0	0	0	106
01:00	0	41	4	0	2	6	2	5	13	**1**	0	0	0	74
02:00	0	43	4	0	3	5	0	2	14	0	0	0	0	71
03:00	0	89	14	0	1	14	0	1	9	0	5	1	0	134
04:00	**4**	244	45	1	2	7	0	3	15	0	4	1	0	326
05:00	0	535	128	1	13	25	1	3	18	1	4	0	0	729
06:00	2	**561**	**241**	1	25	**40**	0	3	34	1	2	0	0	**910**
07:00	3	457	142	1	24	24	1	1	44	0	**14**	2	0	713
08:00	0	413	111	1	26	23	0	2	41	0	5	0	0	622
09:00	0	316	65	**3**	**30**	27	2	6	39	0	14	2	0	504
10:00	0	298	73	1	18	20	0	**11**	**48**	0	7	1	0	477
11:00	1	344	75	1	15	20	**3**	5	34	1	11	**3**	0	513
12 PM	1	422	68	**1**	**22**	17	3	8	52	0	10	**3**	0	607
13:00	1	407	79	1	10	**20**	**5**	4	48	3	3	1	0	582
14:00	2	432	81	1	21	11	2	11	**53**	0	**12**	0	0	626
15:00	2	564	82	0	17	15	0	**12**	49	4	2	0	0	747
16:00	**3**	578	**89**	1	12	10	0	4	43	7	0	0	0	747
17:00	2	**720**	88	1	9	7	0	2	39	**10**	0	0	0	**878**
18:00	2	615	60	1	9	12	0	7	26	2	1	0	0	735
19:00	2	448	59	1	4	12	0	4	17	0	0	0	0	547
20:00	0	482	40	1	1	7	0	6	17	0	0	0	0	554
21:00	0	326	17	1	1	8	0	3	9	0	0	0	0	365
22:00	0	195	3	1	1	10	0	1	19	0	1	0	0	231
23:00	0	126	5	0	0	3	0	2	16	0	0	0	0	152
Total	25	8734	1577	20	267	349	19	107	713	30	95	14	0	11950
Percent	0.2%	73.1%	13.2%	0.2%	2.2%	2.9%	0.2%	0.9%	6.0%	0.3%	0.8%	0.1%	0.0%	
AM Peak	04:00	06:00	06:00	09:00	09:00	06:00	11:00	10:00	10:00	01:00	07:00	11:00		06:00
Vol.	4	561	241	3	30	40	3	11	48	1	14	3		910
PM Peak	16:00	17:00	16:00	12:00	12:00	13:00	13:00	15:00	14:00	17:00	14:00	12:00		17:00
Vol.	3	720	89	1	22	20	5	12	53	10	12	3		878
Grand Total	25	8734	1577	20	267	349	19	107	713	30	95	14	0	11950
Percent	0.2%	73.1%	13.2%	0.2%	2.2%	2.9%	0.2%	0.9%	6.0%	0.3%	0.8%	0.1%	0.0%	

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ONT002
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Eastbound, Westbound

Start Time	Bikes	Cars & Trailers	2 Axle Long	Buses	2 Axle 6 Tire	3 Axle Single	4 Axle Single	<5 Axl Double	5 Axle Double	>6 Axl Double	<6 Axl Multi	6 Axle Multi	>6 Axl Multi	Total
05/10/22	0	125	7	0	1	9	0	3	22	0	0	0	0	167
01:00	0	75	8	0	4	8	2	5	23	1	1	0	0	127
02:00	0	71	5	0	4	10	0	3	20	1	3	0	0	117
03:00	0	144	17	0	2	19	0	4	18	0	7	1	0	212
04:00	4	348	53	1	4	11	0	3	34	1	11	1	0	471
05:00	1	712	157	1	20	36	2	4	52	3	11	0	0	999
06:00	2	829	**296**	2	34	**52**	**6**	4	73	4	7	0	0	1309
07:00	**6**	**959**	200	2	34	41	3	2	85	1	16	2	0	**1351**
08:00	0	838	161	1	41	34	4	4	79	3	19	2	**1**	1187
09:00	4	712	123	**4**	**44**	45	4	8	78	1	19	3	0	1045
10:00	0	679	140	2	39	39	3	**12**	**91**	0	17	3	0	1025
11:00	2	706	142	4	27	46	4	8	83	**5**	**24**	**7**	0	1058
12 PM	1	783	140	**2**	41	38	3	11	**100**	0	15	**3**	**1**	1138
13:00	3	842	161	2	38	**45**	**6**	9	88	3	11	2	0	1210
14:00	3	1011	238	2	**54**	34	4	18	87	0	**19**	1	0	1471
15:00	5	1204	**275**	1	32	35	0	**22**	74	4	5	2	0	1659
16:00	**6**	1216	225	2	37	22	0	17	67	7	0	0	0	1599
17:00	4	**1426**	200	2	23	30	0	10	63	**10**	1	0	0	**1769**
18:00	2	1232	134	2	12	37	0	13	46	2	1	0	0	1481
19:00	3	806	116	2	6	23	1	9	29	0	0	0	0	995
20:00	0	750	64	2	4	18	0	10	28	0	0	0	0	876
21:00	0	529	26	2	3	12	0	5	20	0	0	0	0	597
22:00	0	318	11	1	3	20	0	5	32	0	1	1	0	392
23:00	0	223	6	0	1	8	0	2	27	0	0	0	0	267
Total	46	16538	2905	37	508	672	42	191	1319	46	188	28	2	22522
Percent	0.2%	73.4%	12.9%	0.2%	2.3%	3.0%	0.2%	0.8%	5.9%	0.2%	0.8%	0.1%	0.0%	
AM Peak	07:00	07:00	06:00	09:00	09:00	06:00	06:00	10:00	10:00	11:00	11:00	11:00	08:00	07:00
Vol.	6	959	296	4	44	52	6	12	91	5	24	7	1	1351
PM Peak	16:00	17:00	15:00	12:00	14:00	13:00	13:00	15:00	12:00	17:00	14:00	12:00	12:00	17:00
Vol.	6	1426	275	2	54	45	6	22	100	10	19	3	1	1769
Grand Total	46	16538	2905	37	508	672	42	191	1319	46	188	28	2	22522
Percent	0.2%	73.4%	12.9%	0.2%	2.3%	3.0%	0.2%	0.8%	5.9%	0.2%	0.8%	0.1%	0.0%	

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, November 29, 2022
JOB #: SC3761

CITY: Ontario
LOCATION: CLASS4 Grove north of Edison.

AM	NORTHBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	9	1	0	0	0	0	0	1	0	0	0	0	11
0:15	0	14	2	0	2	0	0	0	3	0	0	0	0	21
0:30	0	8	2	0	2	0	0	0	0	0	0	0	0	12
0:45	0	9	0	0	1	0	0	1	0	0	0	0	0	11
1:00	0	12	2	0	0	1	0	0	1	0	0	0	0	16
1:15	0	14	2	1	0	0	0	0	1	0	0	0	0	18
1:30	0	3	1	0	0	0	0	0	0	0	0	0	0	4
1:45	0	1	0	0	0	1	0	0	1	0	0	0	0	3
2:00	0	10	0	0	0	0	0	0	0	0	0	0	0	10
2:15	0	2	0	0	1	0	0	0	0	0	0	0	0	3
2:30	1	4	2	0	1	0	0	1	0	0	0	0	0	9
2:45	0	7	1	0	0	0	0	0	1	1	0	0	0	10
3:00	0	3	0	0	1	0	0	1	0	0	0	0	0	5
3:15	0	1	1	0	0	0	0	0	2	0	0	0	0	4
3:30	0	4	0	0	0	0	0	0	0	0	0	0	0	4
3:45	0	5	0	0	1	0	0	0	0	0	0	0	0	6
4:00	0	6	0	0	0	0	0	0	1	0	0	0	0	7
4:15	0	9	0	0	2	2	0	0	0	0	0	0	0	13
4:30	0	23	3	0	3	1	0	0	0	0	0	0	0	30
4:45	0	21	1	0	1	0	0	0	0	0	0	0	0	23
5:00	0	17	2	0	2	0	0	0	1	0	0	0	0	22
5:15	0	14	4	0	2	0	0	0	1	0	0	0	0	21
5:30	0	13	7	0	3	0	0	0	1	0	0	0	0	24
5:45	1	13	4	0	5	1	0	0	0	0	0	0	0	24
6:00	0	17	3	0	3	0	0	0	1	0	0	0	0	24
6:15	0	16	5	0	3	2	0	1	2	0	0	0	0	29
6:30	0	23	3	0	6	1	0	0	2	0	0	0	0	35
6:45	0	35	3	0	12	2	0	0	3	0	0	0	0	55
7:00	0	36	14	0	9	4	0	0	2	0	0	1	0	66
7:15	0	56	14	1	10	0	0	0	4	0	0	0	0	85
7:30	0	54	15	0	5	1	0	1	3	0	0	0	0	79
7:45	0	48	16	0	8	4	0	1	0	0	0	0	0	77
8:00	0	53	14	1	7	1	0	0	1	0	1	0	0	78
8:15	0	38	4	0	11	3	0	0	3	0	1	0	0	60
8:30	0	46	12	0	11	0	1	0	4	0	0	0	0	74
8:45	0	44	8	1	8	1	0	0	1	0	0	0	0	63
9:00	0	23	2	0	7	1	0	0	0	0	1	0	0	34
9:15	1	25	3	2	2	2	0	0	2	0	1	0	0	38
9:30	0	20	8	0	6	3	0	0	1	0	0	0	1	39
9:45	0	28	5	2	8	2	0	1	5	0	0	1	0	52
10:00	0	34	9	1	16	1	0	0	4	0	0	0	0	65
10:15	0	26	2	1	9	0	0	0	1	0	0	0	0	39
10:30	2	19	10	0	8	2	0	0	1	0	0	0	0	42
10:45	0	16	5	0	6	3	0	0	3	0	0	0	0	33
11:00	1	39	6	2	10	3	0	0	2	0	0	0	0	63
11:15	0	28	4	2	15	2	0	0	4	0	0	0	0	55
11:30	0	29	5	0	11	1	0	0	3	0	0	0	0	49
11:45	0	28	9	1	9	1	0	1	0	0	0	0	0	49
TOTAL	6	1,003	214	15	227	46	1	8	66	1	4	2	1	1,594

AM PEAK HOUR	7:15 AM
AM PEAK VOLUME	319

PM	NORTHBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	0	11	6	0	6	2	0	2	1	0	0	0	0	28
12:15	1	14	3	0	5	1	0	0	2	0	0	0	0	26
12:30	0	10	3	1	6	1	0	0	2	0	0	0	0	23
12:45	0	11	3	0	11	2	0	0	2	0	0	0	0	29
13:00	0	7	0	0	6	0	0	0	2	0	0	0	0	15
13:15	1	8	3	0	4	2	0	0	1	0	0	0	0	19
13:30	0	18	3	1	6	1	0	1	1	0	0	0	1	32
13:45	1	18	3	0	11	1	0	0	2	0	0	0	0	36
14:00	1	20	8	0	8	1	0	0	5	0	0	0	0	43
14:15	0	17	6	0	6	2	0	1	2	0	0	0	0	34
14:30	0	25	10	2	8	1	1	0	1	0	0	0	0	48
14:45	0	44	5	0	15	0	0	0	2	0	0	0	0	66
15:00	0	22	8	0	9	1	0	1	0	0	0	0	0	41
15:15	0	12	4	1	4	3	0	0	3	0	0	0	1	28
15:30	0	15	8	0	9	0	0	0	2	0	0	0	0	34
15:45	0	27	9	2	6	0	0	1	1	0	0	0	0	46
16:00	0	45	6	1	13	1	0	0	1	0	0	0	0	67
16:15	0	42	9	1	11	1	0	0	1	0	0	0	0	65
16:30	0	64	14	0	16	0	0	0	2	0	0	1	0	97
16:45	0	66	7	1	10	1	0	0	1	0	0	0	0	86
17:00	1	43	11	0	9	0	0	1	0	0	0	0	0	65
17:15	0	38	5	0	13	0	0	0	1	0	0	0	0	57
17:30	1	58	8	1	5	3	0	0	2	0	0	0	0	78
17:45	1	36	6	0	6	1	0	0	0	0	0	0	0	50
18:00	0	38	7	0	4	2	0	0	1	0	1	0	0	53
18:15	0	28	6	0	6	0	0	1	2	0	0	0	0	43
18:30	0	27	7	0	2	0	0	0	4	0	0	0	0	40
18:45	0	26	6	1	5	1	0	0	0	0	0	0	0	39
19:00	0	16	1	0	4	2	0	0	1	0	0	0	0	24
19:15	0	30	5	0	3	0	0	1	4	0	0	0	0	43
19:30	0	30	5	0	4	1	0	0	1	0	1	0	0	42
19:45	0	17	3	0	4	0	0	0	0	0	0	0	0	24
20:00	0	17	1	0	5	0	0	0	0	0	0	0	0	23
20:15	0	13	4	0	1	1	0	0	1	0	0	0	0	20
20:30	0	16	1	0	1	1	0	0	0	0	1	0	0	20
20:45	0	7	4	0	2	1	0	0	0	0	0	0	0	14
21:00	0	11	2	0	1	0	0	1	1	0	0	0	0	16
21:15	0	11	2	0	1	0	0	1	1	0	0	0	0	16
21:30	0	11	0	0	1	1	0	0	0	0	0	0	0	13
21:45	0	7	2	0	1	1	0	0	0	0	0	0	0	11
22:00	0	17	0	0	1	0	0	0	1	0	0	0	0	19
22:15	0	10	1	0	3	1	0	0	0	0	0	0	0	15
22:30	0	22	3	0	0	0	0	0	1	0	0	0	0	26
22:45	0	8	1	0	1	0	0	0	1	0	0	0	0	11
23:00	0	7	1	0	1	1	0	0	2	0	0	0	0	12
23:15	0	16	2	0	0	2	0	0	0	0	0	0	0	20
23:30	0	10	1	0	0	0	0	1	1	0	0	0	0	13
23:45	0	5	0	0	3	1	0	0	0	0	0	0	0	9
TOTAL	7	1,071	213	12	257	41	1	12	59	0	3	1	2	1,679

PM PEAK HOUR	4:00 PM
PM PEAK VOLUME	315

CLASS 1	Class 1 — Motorcycles	CLASS 8	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	CLASS 9	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	CLASS 10	6 or More Axles, Single Trailer
CLASS 4	Buses	CLASS 11	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	CLASS 12	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	CLASS 13	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	13	2,074	427	27	484	87	2	20	125	1	7	3	3	3,273
% OF TOTAL	0.4%	63.4%	13.0%	0.8%	14.8%	2.7%	0.1%	0.6%	3.8%	0.0%	0.2%	0.1%	0.1%	100.0%

TOTAL: ALL	33	4,616	792	45	781	202	11	41	261	3	12	4	4	6,805
% OF TOTAL	1.0%	141.0%	24.2%	1.4%	23.9%	6.2%	0.3%	1.3%	8.0%	0.1%	0.4%	0.1%	0.1%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, November 29, 2022
JOB #: SC3761

CITY: Ontario
LOCATION: CLASS4 Grove north of Edison.

AM	SOUTHBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	10	0	0	0	0	0	0	1	0	0	0	0	11
0:15	0	7	1	0	0	1	0	0	0	0	0	0	0	9
0:30	0	10	1	0	2	2	0	0	0	0	0	0	0	15
0:45	0	11	3	0	0	1	0	0	0	0	0	0	0	15
1:00	0	5	0	0	2	0	0	0	0	0	0	0	0	7
1:15	0	9	1	0	0	0	0	1	1	0	0	0	0	12
1:30	0	3	1	0	0	1	0	0	2	0	0	0	0	7
1:45	0	3	1	0	0	1	0	0	0	0	0	0	0	5
2:00	0	2	0	0	0	2	0	0	0	0	0	0	0	4
2:15	0	6	0	0	0	0	0	0	0	0	0	0	0	6
2:30	0	2	0	0	0	1	0	0	1	0	0	0	0	4
2:45	0	4	1	0	2	0	0	0	1	0	0	0	0	8
3:00	0	5	0	0	0	0	0	0	2	0	0	0	0	7
3:15	0	5	2	0	0	0	0	0	0	0	0	0	0	7
3:30	0	18	3	0	1	0	0	0	3	0	0	0	0	25
3:45	0	16	1	0	1	1	0	0	1	0	0	0	0	20
4:00	0	8	2	0	0	1	0	0	1	0	0	0	0	12
4:15	0	15	2	0	3	1	0	0	1	0	0	0	0	22
4:30	0	53	7	0	2	2	0	0	1	0	0	0	0	65
4:45	0	59	3	0	1	1	0	0	4	0	0	0	0	68
5:00	0	34	8	0	2	3	1	2	1	0	1	0	0	52
5:15	0	37	11	0	7	2	0	1	1	0	0	0	0	59
5:30	0	74	8	0	8	1	0	0	0	0	0	0	0	91
5:45	2	78	14	0	12	4	1	0	3	0	0	0	0	114
6:00	0	44	5	0	5	1	0	0	1	0	0	0	0	56
6:15	0	34	10	0	3	0	0	0	0	0	0	0	0	47
6:30	0	40	4	0	7	0	0	0	3	0	1	0	0	55
6:45	0	45	4	0	2	4	1	0	2	0	0	0	0	58
7:00	1	25	6	0	7	1	0	0	4	0	0	0	0	44
7:15	0	26	3	0	3	0	0	0	1	0	0	0	0	33
7:30	1	33	5	2	7	1	0	0	2	0	2	0	0	53
7:45	0	31	8	0	5	1	0	1	1	0	0	0	0	47
8:00	0	41	6	0	10	0	0	1	2	0	0	0	0	60
8:15	0	39	3	0	7	0	0	0	2	0	0	0	0	51
8:30	1	36	7	0	6	4	1	0	5	0	0	0	0	60
8:45	0	43	7	0	2	5	0	0	0	0	0	0	1	58
9:00	0	35	6	1	5	2	0	0	4	0	0	0	0	53
9:15	0	31	2	2	5	1	0	1	3	0	1	0	0	46
9:30	0	45	5	0	2	2	0	0	2	0	0	0	0	56
9:45	0	37	5	0	2	2	0	0	2	0	0	0	0	48
10:00	0	28	2	0	11	1	0	2	4	0	0	0	0	48
10:15	0	23	6	0	3	1	1	0	3	0	0	0	0	37
10:30	1	22	4	1	10	3	0	0	4	0	0	0	0	45
10:45	0	25	4	0	7	0	0	0	3	0	0	0	0	39
11:00	0	32	4	0	2	0	0	0	2	0	0	0	0	40
11:15	0	28	5	0	7	2	0	0	0	0	0	0	0	42
11:30	2	32	5	2	1	8	1	0	5	0	0	0	0	56
11:45	1	18	10	1	2	3	1	0	1	0	0	1	0	38
TOTAL	9	1,267	196	9	164	67	7	9	80	0	5	1	1	1,815

AM PEAK HOUR	5:15 AM
AM PEAK VOLUME	320

PM	SOUTHBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	1	27	6	1	6	1	0	0	2	0	0	0	0	44
12:15	0	23	9	0	3	2	0	1	0	0	0	0	0	38
12:30	0	18	8	1	6	1	0	0	4	0	0	0	0	38
12:45	0	24	4	0	3	0	0	0	1	0	0	0	0	32
13:00	0	33	6	0	4	3	0	1	4	0	0	0	0	51
13:15	0	24	4	0	4	2	0	0	1	0	0	0	0	35
13:30	0	36	6	1	4	0	0	1	1	0	0	0	0	49
13:45	1	41	7	1	5	0	0	1	2	0	0	0	0	58
14:00	0	36	9	0	3	1	0	0	1	0	0	0	0	50
14:15	1	53	5	1	6	1	0	0	3	0	0	0	0	70
14:30	0	44	5	0	3	3	0	1	0	0	0	0	0	56
14:45	0	38	10	0	7	0	0	0	1	0	0	0	0	56
15:00	0	26	8	0	4	0	0	0	0	0	0	0	0	38
15:15	0	32	3	0	4	0	0	0	0	0	0	0	0	39
15:30	0	32	6	0	5	1	0	0	0	0	0	0	0	44
15:45	0	38	8	0	3	1	0	0	2	0	0	0	0	52
16:00	1	39	2	1	4	2	0	0	0	0	0	0	0	49
16:15	0	34	5	0	2	1	0	1	1	0	0	0	0	44
16:30	0	34	5	0	4	0	0	0	0	0	0	0	0	43
16:45	1	50	7	0	5	1	1	0	0	0	0	0	0	65
17:00	0	41	5	0	4	1	0	0	0	0	0	0	0	51
17:15	0	38	3	1	2	0	0	0	2	0	0	0	0	46
17:30	2	56	4	0	7	1	1	0	1	0	0	0	0	72
17:45	0	39	4	0	2	0	0	0	1	0	0	0	0	46
18:00	0	29	2	0	4	3	0	0	0	0	0	0	0	38
18:15	0	33	2	0	1	0	0	1	1	0	0	0	0	38
18:30	2	50	1	1	11	1	0	1	0	0	0	0	0	67
18:45	1	49	2	0	0	3	0	0	4	0	0	0	0	59
19:00	0	19	3	1	2	4	0	0	0	0	0	0	0	29
19:15	0	24	2	0	1	0	0	0	2	0	0	0	0	29
19:30	1	10	4	0	1	2	0	0	2	1	0	0	0	21
19:45	0	23	2	0	2	2	0	0	0	0	0	0	0	29
20:00	0	21	2	0	0	0	0	2	0	0	0	0	0	25
20:15	0	15	1	0	1	1	0	0	0	0	0	0	0	18
20:30	0	11	1	0	1	2	0	0	2	0	0	0	0	17
20:45	0	18	1	0	1	0	0	0	1	0	0	0	0	21
21:00	0	12	1	0	0	0	0	0	4	0	0	0	0	17
21:15	0	11	1	0	2	1	0	1	1	0	0	0	0	17
21:30	0	8	0	0	0	2	0	0	1	0	0	0	0	11
21:45	0	16	1	0	1	0	0	0	3	0	0	0	0	21
22:00	0	4	0	0	1	0	0	1	1	0	0	0	0	7
22:15	0	11	0	0	0	2	0	0	1	0	0	0	0	14
22:30	0	4	0	0	1	1	0	0	3	0	0	0	0	9
22:45	0	6	2	0	1	0	0	0	0	0	0	0	0	9
23:00	0	9	0	0	0	1	0	0	1	0	0	0	0	11
23:15	0	7	0	0	0	1	0	0	0	0	0	0	0	8
23:30	0	13	1	0	2	0	0	0	1	1	0	0	0	18
23:45	0	16	1	0	0	0	0	0	1	0	0	0	0	18
TOTAL	11	1,275	169	9	133	48	2	12	56	2	0	0	0	1,717

PM PEAK HOUR	4:45 PM
PM PEAK VOLUME	234

TOTAL: AM+PM	20	2,542	365	18	297	115	9	21	136	2	5	1	1	3,532
% OF TOTAL	0.6%	72.0%	10.3%	0.5%	8.4%	3.3%	0.3%	0.6%	3.9%	0.1%	0.1%	0.0%	0.0%	100.0%

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

A816

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, November 29, 2022
JOB #: SC3761

CITY: Ontario
LOCATION: CLASS3 Euclid north of Merrill

AM	NORTHBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	53	3	0	1	1	0	2	8	0	0	0	0	68
0:15	0	23	2	0	0	1	0	0	8	0	0	0	0	34
0:30	0	35	1	0	0	4	0	1	9	0	0	0	0	50
0:45	0	23	1	0	0	3	0	0	5	0	0	0	0	32
1:00	0	36	3	0	1	1	0	1	9	0	0	0	0	51
1:15	0	31	2	0	0	2	0	0	9	0	0	0	0	44
1:30	0	23	0	0	1	6	0	6	10	0	0	0	0	46
1:45	0	22	1	0	0	1	0	1	13	0	0	0	0	38
2:00	0	30	2	0	0	0	0	1	6	0	0	0	0	39
2:15	0	30	2	0	0	5	0	5	9	0	0	1	0	52
2:30	0	23	0	0	0	3	0	1	7	0	0	0	0	34
2:45	0	15	1	0	1	2	0	1	6	0	0	0	0	26
3:00	0	31	1	0	0	3	0	2	10	0	0	0	0	47
3:15	0	20	1	0	0	4	0	0	9	0	0	0	0	34
3:30	0	22	5	0	0	3	0	0	8	0	0	0	0	38
3:45	0	15	2	0	0	5	0	0	6	0	0	0	0	28
4:00	0	42	4	0	1	7	0	1	4	0	0	0	0	59
4:15	0	44	1	0	0	4	0	1	12	0	1	0	0	63
4:30	0	72	7	0	2	2	0	0	9	0	1	0	0	93
4:45	0	67	16	0	2	4	0	2	7	0	0	0	0	98
5:00	0	55	5	0	1	2	0	2	7	1	0	1	0	74
5:15	0	43	8	0	1	2	0	1	10	1	0	0	0	66
5:30	0	66	11	0	0	7	0	2	13	1	0	0	0	100
5:45	0	69	17	0	4	3	0	1	10	1	0	0	0	105
6:00	1	112	31	0	2	3	0	0	14	1	1	0	0	165
6:15	1	67	25	0	8	4	0	0	9	2	0	0	0	116
6:30	0	78	23	0	3	4	0	2	8	0	1	0	0	119
6:45	1	91	23	0	7	4	0	0	13	0	0	0	0	139
7:00	1	116	19	1	6	1	0	1	18	0	0	0	0	163
7:15	0	121	20	0	5	4	0	0	11	0	0	0	0	161
7:30	0	150	35	0	9	7	0	1	13	0	0	0	0	215
7:45	1	142	31	0	6	4	0	0	14	0	0	0	0	198
8:00	0	114	22	0	6	5	0	2	16	0	0	0	0	165
8:15	0	120	18	1	7	5	0	3	19	0	0	0	0	173
8:30	0	113	33	0	6	9	0	0	26	0	0	0	0	187
8:45	0	122	27	0	5	4	0	1	23	0	0	0	0	182
9:00	1	100	25	0	10	5	0	2	18	0	0	0	0	161
9:15	0	87	24	0	6	9	0	2	15	0	0	0	0	143
9:30	0	76	24	0	5	8	0	2	16	0	0	0	0	131
9:45	0	96	23	0	9	5	0	7	17	1	0	0	0	158
10:00	0	67	30	0	7	2	0	5	19	0	0	1	0	131
10:15	0	90	24	0	8	11	0	4	23	0	0	0	0	160
10:30	0	90	31	0	6	12	0	6	20	0	0	0	0	165
10:45	0	74	32	0	3	4	0	6	17	0	0	0	0	136
11:00	0	72	31	0	11	7	0	8	17	0	0	0	0	146
11:15	0	66	28	0	6	5	0	4	18	0	1	0	0	128
11:30	0	76	27	0	5	6	0	5	25	0	1	0	0	145
11:45	1	68	34	0	6	6	0	2	15	0	0	0	0	132
TOTAL	7	3,198	736	2	167	209	0	94	608	8	6	3	0	5,038

AM PEAK HOUR	7:30 AM
AM PEAK VOLUME	751

PM	NORTHBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	0	89	27	0	6	6	0	4	29	0	0	0	0	161
12:15	2	85	27	2	9	6	0	5	28	0	1	0	0	165
12:30	1	75	33	0	5	10	0	6	19	0	0	0	0	149
12:45	0	76	24	0	4	6	0	5	17	0	1	0	0	133
13:00	0	106	32	0	14	3	0	2	25	0	0	1	0	183
13:15	0	75	30	0	9	4	0	4	17	0	1	1	0	141
13:30	0	145	31	0	7	10	0	4	23	0	0	1	0	221
13:45	1	136	40	0	15	8	0	5	24	0	0	0	0	229
14:00	0	130	50	0	4	9	0	3	15	0	0	0	0	211
14:15	1	146	39	0	9	1	0	4	23	0	0	0	0	223
14:30	0	158	50	0	7	10	0	4	22	0	0	1	0	252
14:45	0	138	59	0	13	6	0	3	11	0	1	0	0	231
15:00	0	162	40	0	15	5	0	2	11	0	0	0	0	235
15:15	0	148	34	0	10	4	0	4	17	0	0	0	0	217
15:30	1	192	45	0	9	13	0	6	17	0	0	0	0	283
15:45	1	168	47	1	9	5	0	6	14	0	0	0	0	251
16:00	0	169	40	0	9	3	0	2	12	0	0	0	0	235
16:15	0	156	38	0	3	8	0	2	15	0	0	0	0	222
16:30	1	161	45	0	3	5	0	5	12	0	0	0	0	232
16:45	0	138	41	0	9	2	0	2	7	1	0	0	0	200
17:00	0	165	25	0	4	2	0	10	7	1	0	1	0	215
17:15	2	159	24	0	9	5	0	9	12	0	0	0	0	220
17:30	0	184	19	0	4	4	0	5	9	0	0	0	0	225
17:45	1	134	16	0	2	2	0	7	10	0	0	0	0	172
18:00	0	128	10	0	2	4	0	6	9	0	0	0	0	159
18:15	0	122	11	0	3	5	0	5	13	1	0	0	0	160
18:30	1	114	9	0	1	9	0	4	12	0	0	0	0	150
18:45	0	124	12	0	4	2	0	2	4	1	0	0	0	149
19:00	0	154	12	0	2	5	0	5	10	0	0	0	0	188
19:15	0	130	17	0	3	9	0	0	5	0	0	0	0	164
19:30	0	92	16	0	3	8	0	4	11	0	0	0	0	134
19:45	0	62	8	0	1	5	0	6	2	0	0	0	0	84
20:00	0	86	5	1	2	7	0	4	6	0	0	0	0	111
20:15	0	57	4	0	1	5	0	8	9	0	0	0	0	84
20:30	0	64	2	0	0	4	0	2	4	0	0	0	0	76
20:45	0	44	3	0	0	7	0	4	3	0	0	0	0	61
21:00	0	53	3	0	0	4	0	4	8	0	0	0	0	72
21:15	0	55	3	0	2	2	0	1	13	0	0	0	0	76
21:30	1	60	6	0	0	2	0	3	10	0	0	0	0	82
21:45	0	58	6	0	0	1	0	2	12	0	0	0	0	79
22:00	1	51	0	0	0	5	0	4	13	0	0	0	0	74
22:15	0	46	1	0	0	3	0	2	9	0	0	0	0	61
22:30	0	65	5	0	0	0	0	0	11	0	0	0	0	81
22:45	0	53	4	0	2	3	0	5	4	0	0	0	0	71
23:00	0	35	0	0	0	1	0	2	8	0	0	0	0	46
23:15	0	34	2	0	1	4	0	3	9	0	0	0	0	53
23:30	0	40	2	0	0	1	0	0	13	0	0	0	0	56
23:45	0	25	2	0	0	3	0	0	10	0	0	1	0	41
TOTAL	14	5,047	999	4	215	236	0	185	604	4	4	6	0	7,318

PM PEAK HOUR	3:30 PM
PM PEAK VOLUME	991

CLASS 1	Class 1 — Motorcycles	CLASS 8	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	CLASS 9	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	CLASS 10	6 or More Axles, Single Trailer
CLASS 4	Buses	CLASS 11	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	CLASS 12	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	CLASS 13	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	21	8,245	1,735	6	382	445	0	279	###	12	10	9	0	12,356
% OF TOTAL	0.2%	66.7%	14.0%	0.0%	3.1%	3.6%	0.0%	2.3%	9.8%	0.1%	0.1%	0.1%	0.0%	100.0%
Class	1	2	3	4	5	6	7	8	9	10	11	12	13	
TOTAL: ALL	51	17,338	3,537	15	750	871	1	587	###	14	21	41	0	25,794
% OF TOTAL	0.4%	140.3%	28.6%	0.1%	6.1%	7.0%	0.0%	4.8%	20.8%	0.1%	0.2%	0.3%	0.0%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, November 29, 2022
JOB #: SC3761

CITY: Ontario
LOCATION: CLASS3 Euclid north of Merrill

AM	SOUTHBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	10	1	0	0	2	0	0	3	0	0	1	0	17
0:15	0	18	1	0	0	3	0	2	8	0	0	0	0	32
0:30	0	23	4	0	0	5	0	0	8	0	0	3	0	43
0:45	0	17	4	0	0	3	0	6	4	0	0	1	0	35
1:00	0	15	2	0	0	2	0	3	12	0	0	0	0	34
1:15	0	12	0	0	1	2	0	5	10	0	0	0	0	30
1:30	0	12	1	0	0	0	0	0	8	0	0	1	0	22
1:45	0	13	0	0	0	5	0	3	12	0	1	0	0	34
2:00	0	11	1	0	0	5	0	1	7	0	0	0	0	25
2:15	0	12	0	0	0	3	0	2	11	0	0	0	0	28
2:30	0	28	0	0	0	2	0	0	12	0	1	1	0	44
2:45	0	29	1	0	0	3	0	2	6	0	0	2	0	43
3:00	0	16	1	0	1	4	0	1	7	0	0	1	0	31
3:15	0	29	1	0	2	4	0	1	9	0	0	1	0	47
3:30	0	31	0	0	0	3	0	0	9	0	0	2	0	45
3:45	0	42	4	0	1	2	0	1	6	0	0	1	0	57
4:00	0	37	4	0	0	1	0	1	9	0	0	3	0	55
4:15	0	82	5	0	1	5	0	1	9	0	0	1	0	104
4:30	1	102	14	0	0	1	0	1	10	0	1	0	0	130
4:45	0	154	22	0	2	3	0	0	4	0	0	0	0	185
5:00	0	99	33	0	4	11	0	2	13	0	0	0	0	162
5:15	1	115	26	0	1	4	0	0	10	0	1	0	0	158
5:30	2	168	33	0	1	10	0	0	7	0	0	0	0	221
5:45	1	195	36	0	2	11	0	2	5	0	0	1	0	253
6:00	0	145	32	0	2	9	0	2	11	0	0	0	0	201
6:15	0	170	46	0	4	7	0	0	14	0	0	0	0	241
6:30	1	176	33	1	4	6	1	3	13	0	0	0	0	238
6:45	1	244	52	1	9	5	0	0	17	0	2	1	0	332
7:00	0	132	50	0	9	6	0	0	22	0	0	1	0	220
7:15	1	126	39	0	8	9	0	3	21	0	0	0	0	207
7:30	1	144	30	0	13	7	0	1	14	0	0	0	0	210
7:45	0	169	27	4	10	7	0	2	23	0	0	1	0	243
8:00	0	149	24	0	7	4	0	0	23	0	0	1	0	208
8:15	0	125	37	0	2	6	0	0	25	0	1	1	0	197
8:30	0	121	32	0	9	1	0	2	26	0	2	0	0	193
8:45	0	107	19	0	5	6	0	3	23	0	0	0	0	163
9:00	1	108	29	0	6	11	0	0	27	0	0	1	0	183
9:15	1	89	25	0	7	2	0	4	21	0	0	0	0	149
9:30	1	91	34	0	8	2	0	6	24	0	0	0	0	166
9:45	1	101	20	0	13	8	0	2	18	0	1	0	0	164
10:00	0	79	25	0	11	6	0	0	21	0	0	0	0	142
10:15	0	80	20	0	9	3	0	4	23	0	0	0	0	139
10:30	0	92	23	0	3	4	0	7	21	0	0	0	0	150
10:45	0	78	24	0	8	3	0	4	31	0	0	0	0	148
11:00	0	101	25	0	7	1	0	4	22	1	0	0	0	161
11:15	1	87	46	0	9	8	0	9	20	0	0	0	0	180
11:30	0	84	33	0	3	8	0	6	21	0	0	0	0	155
11:45	0	103	27	0	6	4	0	2	19	0	0	1	0	162
TOTAL	14	4,171	946	6	188	227	1	98	699	1	10	26	0	6,387

AM PEAK HOUR	6:15 AM
AM PEAK VOLUME	1,031

PM	SOUTHBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	0	81	29	0	8	8	0	6	20	0	0	0	0	152
12:15	0	69	31	0	4	8	0	2	26	0	0	0	0	140
12:30	1	86	22	0	7	6	0	6	23	0	0	0	0	151
12:45	1	80	33	0	8	5	0	6	19	0	0	0	0	152
13:00	1	82	23	0	6	2	0	10	29	1	0	0	0	154
13:15	1	104	26	0	8	7	0	6	20	0	0	0	0	172
13:30	0	107	30	0	12	6	0	8	23	0	0	0	0	186
13:45	0	106	24	0	6	5	0	1	17	0	0	1	0	160
14:00	1	98	23	0	2	4	0	7	19	0	0	0	0	154
14:15	0	116	26	0	9	5	0	4	23	0	0	0	0	183
14:30	0	127	22	0	8	2	0	9	14	0	0	0	0	182
14:45	0	134	39	0	10	2	0	5	14	0	0	1	0	205
15:00	3	135	35	0	9	4	0	7	11	0	0	0	0	204
15:15	2	133	33	0	3	4	0	6	16	0	0	1	0	198
15:30	0	145	36	0	6	4	0	5	16	0	0	0	0	212
15:45	0	150	31	1	8	8	0	7	10	0	0	0	0	215
16:00	0	161	32	0	4	4	0	8	6	0	0	0	0	215
16:15	3	183	24	0	8	2	0	5	10	0	0	0	0	235
16:30	2	174	30	0	6	4	0	2	12	0	0	0	0	230
16:45	0	211	43	0	3	7	0	5	10	0	0	0	0	279
17:00	0	215	35	1	7	9	0	3	9	0	0	0	0	279
17:15	0	221	20	0	6	1	0	6	11	0	1	0	0	266
17:30	0	239	31	0	1	5	0	7	10	0	0	0	0	293
17:45	0	201	29	0	1	3	0	5	13	0	0	0	0	252
18:00	0	158	21	0	3	2	0	4	12	0	0	0	0	200
18:15	0	144	18	0	3	4	0	8	14	0	0	0	0	191
18:30	1	126	7	0	2	3	0	3	10	0	0	1	0	153
18:45	0	115	9	0	3	5	0	3	24	0	0	0	0	159
19:00	0	79	11	0	1	2	0	2	13	0	0	0	0	108
19:15	0	107	9	0	4	3	0	5	10	0	0	0	0	138
19:30	0	91	5	0	0	3	0	5	12	0	0	0	0	116
19:45	0	73	4	0	0	2	0	6	15	0	0	0	0	100
20:00	0	61	8	0	0	4	0	4	11	0	0	0	0	88
20:15	0	70	4	0	0	4	0	3	10	0	0	0	0	91
20:30	0	51	6	0	3	4	0	6	11	0	0	0	0	81
20:45	0	67	5	0	2	4	0	3	10	0	0	0	0	91
21:00	0	70	12	0	0	5	0	1	9	0	0	0	0	97
21:15	0	59	7	0	4	6	0	4	6	0	0	0	0	86
21:30	0	47	8	0	1	3	0	2	12	0	0	0	0	73
21:45	0	39	5	0	1	2	0	2	12	0	0	0	0	61
22:00	0	19	0	0	0	4	0	0	10	0	0	0	0	33
22:15	0	34	1	0	0	7	0	2	17	0	0	0	0	61
22:30	0	31	2	0	3	5	0	4	11	0	0	0	0	56
22:45	0	23	0	1	0	5	0	0	13	0	0	0	0	42
23:00	0	23	1	0	0	0	0	2	6	0	0	0	0	32
23:15	0	29	1	0	0	1	0	2	8	0	0	1	0	42
23:30	0	25	4	0	0	3	0	1	10	0	0	1	0	44
23:45	0	23	1	0	0	3	0	2	10	0	0	0	0	39
TOTAL	16	4,922	856	3	180	199	0	210	657	1	1	6	0	7,051

PM PEAK HOUR	4:45 PM
PM PEAK VOLUME	1,117

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	30	9,093	1,802	9	368	426	1	308	###	2	11	32	0	13,438
% OF TOTAL	0.2%	67.7%	13.4%	0.1%	2.7%	3.2%	0.0%	2.3%	10.1%	0.0%	0.1%	0.2%	0.0%	100.0%

Class	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**	**11**	**12**	**13**

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, November 29, 2022
JOB #: SC3761

CITY: Ontario
LOCATION: CLASS2 Edison east of Euclid.

AM	EASTBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	6	0	0	0	0	0	0	0	0	0	0	0	6
0:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
0:30	0	3	0	0	0	1	0	0	0	0	0	0	0	4
0:45	0	3	1	0	2	0	0	0	0	0	0	0	0	6
1:00	0	1	0	0	0	0	0	0	0	1	0	0	0	2
1:15	0	0	1	0	0	0	0	0	1	0	0	0	0	2
1:30	0	2	0	0	0	2	0	0	2	0	0	0	0	6
1:45	0	3	0	0	0	2	0	0	0	0	0	0	0	5
2:00	0	2	0	0	0	1	0	0	0	0	0	0	0	3
2:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
2:30	0	0	1	0	0	2	0	0	2	0	0	0	0	5
2:45	0	2	0	0	0	0	0	0	1	0	0	0	0	3
3:00	0	2	0	0	0	2	0	0	0	0	0	0	0	4
3:15	0	0	2	0	0	1	0	0	1	0	0	0	0	4
3:30	0	3	1	0	0	0	0	0	0	0	0	0	0	4
3:45	0	5	1	0	0	1	0	0	1	0	0	0	0	8
4:00	0	4	0	0	1	0	0	0	1	0	0	0	0	6
4:15	0	7	0	0	0	0	0	0	2	0	0	0	0	9
4:30	0	11	0	0	0	0	0	0	0	0	0	0	0	11
4:45	0	14	3	0	1	2	0	0	0	0	0	0	0	20
5:00	1	7	1	0	0	1	0	0	4	0	0	0	0	14
5:15	0	7	5	0	1	3	0	1	3	0	0	1	0	21
5:30	0	14	3	0	2	1	0	0	1	0	0	0	0	21
5:45	0	21	1	0	2	3	0	0	2	0	0	0	0	29
6:00	1	25	6	0	2	1	1	0	3	0	0	0	0	39
6:15	0	13	4	0	3	0	0	0	2	0	0	0	0	22
6:30	0	15	2	0	8	2	0	0	0	0	0	0	0	27
6:45	0	20	4	1	7	2	0	0	2	0	0	0	0	36
7:00	0	23	2	1	3	4	1	0	5	0	0	0	0	39
7:15	0	23	3	1	6	2	0	0	4	0	0	0	0	39
7:30	0	24	4	0	2	1	0	0	5	0	0	1	0	37
7:45	1	36	7	2	4	3	0	0	5	0	0	0	0	58
8:00	0	34	7	0	3	2	0	0	6	0	0	0	0	52
8:15	0	34	6	0	2	4	1	0	6	0	0	1	0	54
8:30	0	32	15	0	1	1	0	0	6	0	0	0	0	55
8:45	0	26	6	0	1	1	0	0	7	0	0	0	0	41
9:00	0	35	6	1	3	0	0	2	4	0	0	0	0	51
9:15	0	21	3	2	0	0	1	0	6	0	0	0	0	33
9:30	0	24	6	2	1	1	0	0	4	0	0	0	0	38
9:45	0	38	6	1	2	4	0	0	2	1	0	0	0	54
10:00	1	31	3	1	6	3	1	0	6	0	0	0	0	52
10:15	0	33	3	1	4	2	0	0	5	0	0	0	0	48
10:30	0	17	3	0	4	5	0	0	6	0	0	0	0	35
10:45	0	24	5	0	3	3	0	0	6	0	0	0	0	41
11:00	0	22	9	2	6	1	1	0	4	0	0	0	0	45
11:15	1	30	7	2	3	1	0	0	6	0	0	1	0	51
11:30	0	35	9	0	4	4	0	0	7	0	0	0	0	59
11:45	0	28	9	0	2	1	0	2	5	0	0	0	1	48
TOTAL	5	764	155	17	89	70	6	5	133	2	0	4	1	1,251

AM PEAK HOUR	7:45 AM
AM PEAK VOLUME	219

PM	EASTBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	1	29	9	1	4	5	1	1	6	0	0	0	0	57
12:15	0	35	5	2	7	6	1	1	8	0	0	0	0	65
12:30	0	33	0	1	1	2	0	1	7	0	0	1	0	46
12:45	0	35	5	1	4	5	0	0	2	0	0	0	0	52
13:00	0	23	6	4	6	4	1	0	5	0	0	0	0	49
13:15	0	47	10	2	6	3	0	0	5	0	0	0	0	73
13:30	0	56	10	1	7	4	0	1	7	0	0	0	0	86
13:45	0	55	17	1	9	7	1	1	6	0	0	0	0	97
14:00	0	56	7	2	6	2	1	1	8	0	0	0	0	83
14:15	0	63	9	3	5	2	0	1	10	0	0	0	0	93
14:30	2	71	13	1	10	3	1	1	9	0	0	0	0	111
14:45	1	77	22	0	8	5	0	1	8	0	0	0	0	122
15:00	1	72	13	0	10	2	0	0	5	0	0	0	0	103
15:15	1	78	15	2	8	8	0	1	3	0	0	0	0	116
15:30	0	95	12	2	7	4	1	1	10	0	0	0	0	132
15:45	0	94	14	1	12	0	0	1	1	0	0	0	0	123
16:00	0	79	9	0	9	1	0	2	5	2	0	0	0	107
16:15	0	121	16	2	10	3	0	0	5	0	0	0	1	158
16:30	1	88	17	2	12	2	0	4	2	0	0	0	0	128
16:45	1	91	15	0	13	0	1	0	4	1	0	0	0	126
17:00	0	81	10	0	6	1	0	1	2	0	0	0	0	101
17:15	0	105	11	0	6	2	0	4	4	0	0	0	0	132
17:30	2	116	16	1	5	3	0	3	2	0	0	0	0	148
17:45	0	77	6	0	6	1	0	2	3	0	0	0	0	95
18:00	1	74	7	0	3	2	0	3	2	0	0	0	0	92
18:15	0	78	6	1	5	1	0	0	1	0	0	0	0	92
18:30	0	62	5	0	0	3	0	0	3	0	0	0	0	73
18:45	1	53	4	1	2	1	0	0	1	0	0	0	0	63
19:00	0	45	5	1	2	2	0	2	0	0	0	0	0	57
19:15	0	33	6	1	3	1	0	0	1	0	0	0	0	45
19:30	0	31	6	0	1	1	0	0	1	0	0	0	0	40
19:45	0	25	4	0	2	1	0	1	0	0	0	0	0	33
20:00	0	34	2	0	1	1	0	0	2	0	0	0	0	40
20:15	1	34	4	0	5	1	0	0	0	0	0	0	0	45
20:30	0	27	3	0	3	1	0	1	0	0	0	0	0	35
20:45	0	21	1	0	0	0	0	0	1	0	0	0	0	23
21:00	0	23	3	1	2	3	0	0	0	0	0	0	0	32
21:15	0	27	0	0	0	0	0	0	1	0	0	0	0	28
21:30	0	16	2	0	1	0	0	1	1	0	0	0	0	21
21:45	0	12	1	0	1	1	0	0	0	0	0	0	0	15
22:00	0	15	2	0	0	1	0	1	0	0	0	0	0	19
22:15	0	9	1	0	2	0	0	0	0	0	0	0	0	12
22:30	0	7	0	0	0	0	0	0	2	0	0	0	0	9
22:45	0	11	0	0	0	0	0	0	2	0	0	0	0	13
23:00	0	3	1	0	0	0	0	0	1	0	0	0	0	5
23:15	0	9	1	0	0	0	0	0	0	0	0	0	0	10
23:30	0	13	2	0	0	2	0	0	0	0	0	0	0	17
23:45	0	5	0	0	2	3	0	0	1	0	0	0	0	11
TOTAL	13	2,344	333	34	212	100	8	37	147	3	0	1	1	3,233

PM PEAK HOUR	3:30 PM
PM PEAK VOLUME	520

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	18	3,108	488	51	301	170	14	42	280	5	0	5	2	4,484
% OF TOTAL	0.4%	69.3%	10.9%	1.1%	6.7%	3.8%	0.3%	0.9%	6.2%	0.1%	0.0%	0.1%	0.0%	100.0%

TOTAL: ALL	37	5,731	852	81	581	331	20	79	515	7	1	8	3	8,246
% OF TOTAL	0.8%	127.8%	19.0%	1.8%	13.0%	7.4%	0.4%	1.8%	11.5%	0.2%	0.0%	0.2%	0.1%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, November 29, 2022
JOB #: SC3761

CITY: Ontario
LOCATION: CLASS2 Edison east of Euclid.

AM	WESTBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	2	1	0	0	0	0	0	0	0	0	0	0	3
0:15	0	2	0	0	0	0	0	0	0	0	0	0	0	2
0:30	0	3	0	0	0	2	0	0	0	0	0	0	0	5
0:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4
1:00	0	5	0	0	0	0	0	0	1	0	0	0	0	6
1:15	0	1	0	0	0	0	0	0	1	0	0	0	0	2
1:30	0	3	0	0	0	0	0	0	0	0	0	0	0	3
1:45	0	0	0	0	0	0	0	0	0	0	0	0	0	0
2:00	0	0	1	0	0	2	0	0	1	0	0	0	0	4
2:15	0	1	0	0	0	0	0	0	0	0	0	0	0	1
2:30	0	2	0	0	0	1	0	0	1	0	0	0	0	4
2:45	0	4	0	0	0	0	0	0	0	0	0	0	0	4
3:00	0	1	0	0	0	1	0	0	0	0	0	0	0	2
3:15	0	6	1	0	1	1	0	0	0	0	0	0	0	9
3:30	0	4	2	0	1	0	0	0	5	0	0	0	0	12
3:45	0	6	0	0	1	0	0	0	1	0	0	0	0	8
4:00	0	3	1	0	0	0	0	0	1	0	0	0	0	5
4:15	0	11	5	0	1	4	0	0	0	0	0	0	0	21
4:30	0	16	3	0	1	2	0	0	0	0	0	0	0	22
4:45	0	19	4	0	1	0	0	0	1	0	0	0	0	25
5:00	0	25	4	0	0	2	0	1	2	0	0	0	0	34
5:15	1	25	6	0	3	2	0	0	2	0	0	0	0	39
5:30	0	31	9	0	3	7	0	0	4	0	0	0	0	54
5:45	0	45	9	0	7	3	0	0	4	0	0	0	0	68
6:00	1	60	11	0	4	4	0	0	5	0	0	0	0	85
6:15	1	65	8	1	6	6	0	1	5	0	0	0	0	93
6:30	0	84	5	1	12	5	0	1	8	0	1	0	0	117
6:45	0	102	10	2	6	2	0	0	5	1	0	0	0	128
7:00	0	62	6	2	8	1	0	0	5	0	0	0	0	84
7:15	0	64	5	0	3	2	0	1	6	0	0	0	0	81
7:30	1	63	10	0	10	1	0	1	10	0	0	0	0	96
7:45	0	86	9	1	12	3	0	1	5	0	0	0	0	117
8:00	1	53	8	0	3	4	0	2	4	0	0	0	0	75
8:15	1	76	8	0	5	1	0	0	3	0	0	0	0	94
8:30	0	60	7	1	6	4	0	0	8	0	0	0	0	86
8:45	0	72	8	0	3	2	0	0	5	0	0	0	0	90
9:00	0	38	3	1	11	3	0	1	5	0	0	0	0	62
9:15	3	38	4	1	2	1	0	0	4	0	0	0	0	53
9:30	1	49	3	1	5	1	0	0	5	0	0	1	0	66
9:45	0	43	3	0	6	2	0	1	10	0	0	0	0	65
10:00	0	32	5	0	7	4	1	0	5	0	0	1	0	55
10:15	0	24	13	0	2	5	0	3	4	0	0	0	0	51
10:30	1	44	7	1	4	2	0	3	9	0	0	0	0	71
10:45	0	24	4	2	4	3	1	3	7	0	0	0	0	48
11:00	0	24	6	0	7	3	1	0	6	0	0	0	0	47
11:15	1	28	5	1	1	3	0	1	6	0	0	0	0	46
11:30	0	26	7	1	3	3	0	0	2	0	0	0	0	42
11:45	0	36	6	3	5	1	0	0	4	0	0	0	0	55
TOTAL	12	1,472	207	19	154	93	3	20	160	1	1	2	0	2,144

AM PEAK HOUR	6:00 AM
AM PEAK VOLUME	423

PM	WESTBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	0	24	2	1	3	3	0	0	8	0	0	0	0	41
12:15	0	33	4	0	4	2	0	0	3	0	0	0	0	46
12:30	1	24	6	0	1	4	1	1	4	0	0	0	0	42
12:45	1	27	8	1	7	2	0	2	5	0	0	0	0	53
13:00	1	25	3	1	3	3	0	0	6	0	0	0	0	42
13:15	0	28	8	1	7	4	0	1	4	1	0	0	1	55
13:30	0	40	6	1	9	0	0	0	2	0	0	0	0	58
13:45	1	26	3	1	6	2	0	0	3	0	0	0	0	42
14:00	1	23	5	0	2	4	0	1	3	0	0	0	0	39
14:15	0	37	6	2	6	1	0	1	3	0	0	0	0	56
14:30	0	37	6	1	6	4	0	0	2	0	0	0	0	56
14:45	0	38	8	0	9	3	0	1	2	0	0	0	0	61
15:00	0	33	7	0	6	1	0	0	0	0	0	0	0	47
15:15	1	35	4	0	5	3	0	1	1	0	0	0	0	50
15:30	0	41	7	0	3	4	0	2	2	0	0	0	0	59
15:45	1	59	7	1	4	1	0	0	2	0	0	0	0	75
16:00	0	33	6	0	5	1	0	0	0	0	0	0	0	45
16:15	0	38	4	0	3	1	1	0	1	0	0	0	0	48
16:30	0	49	6	0	1	2	1	1	1	0	0	0	0	61
16:45	0	33	4	1	5	0	0	1	2	0	0	0	0	46
17:00	0	29	6	0	2	0	0	0	0	0	0	0	0	37
17:15	0	42	2	0	4	1	0	0	1	0	0	0	0	50
17:30	0	47	3	0	1	3	0	0	2	0	0	0	0	56
17:45	0	32	1	0	2	0	0	2	0	0	0	0	0	37
18:00	0	23	6	0	2	0	0	0	0	0	0	0	0	31
18:15	0	40	2	0	4	0	0	1	0	0	0	0	0	47
18:30	0	41	4	0	3	4	0	0	0	0	0	0	0	52
18:45	0	28	4	0	0	2	0	0	1	0	0	0	0	35
19:00	0	24	0	0	3	1	0	0	1	0	0	0	0	29
19:15	0	19	2	0	0	1	0	0	3	0	0	0	0	25
19:30	0	17	3	0	2	0	0	0	0	0	0	0	0	22
19:45	0	17	2	0	1	3	0	0	1	0	0	0	0	24
20:00	0	21	3	0	1	0	0	1	1	0	0	0	0	27
20:15	0	10	2	0	0	0	0	0	0	0	0	0	0	12
20:30	0	8	1	0	1	0	0	0	0	0	0	0	0	10
20:45	0	14	1	0	0	0	0	0	0	0	0	0	0	15
21:00	0	7	0	0	0	1	0	0	3	0	0	1	0	12
21:15	0	5	2	0	0	2	0	1	0	0	0	0	0	10
21:30	0	12	2	0	1	2	0	0	1	0	0	0	0	18
21:45	0	8	1	0	2	0	0	0	1	0	0	0	0	12
22:00	0	5	0	0	0	1	0	0	1	0	0	0	0	7
22:15	0	6	0	0	0	0	0	0	0	0	0	0	0	6
22:30	0	2	0	0	0	0	0	0	2	0	0	0	0	4
22:45	0	0	0	0	0	0	0	0	1	0	0	0	0	1
23:00	0	2	0	0	0	0	0	0	1	0	0	0	0	3
23:15	0	3	0	0	0	2	0	0	0	0	0	0	0	5
23:30	0	2	0	0	2	0	0	0	0	0	0	0	0	4
23:45	0	4	0	0	0	0	0	0	1	0	0	0	0	5
TOTAL	7	1,151	157	11	126	68	3	17	75	1	0	1	1	1,618

PM PEAK HOUR	3:00 PM
PM PEAK VOLUME	231

TOTAL: AM+PM	19	2,623	364	30	280	161	6	37	235	2	1	3	1	3,762
% OF TOTAL	0.5%	69.7%	9.7%	0.8%	7.4%	4.3%	0.2%	1.0%	6.2%	0.1%	0.0%	0.1%	0.0%	100.0%

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, November 29, 2022
JOB #: SC3761

CITY: Ontario
LOCATION: CLASS1 Schafeer east of Euclid.

AM	EASTBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	0	0	0	1	0	6	1	2	0	0	0	0	10
0:15	0	1	0	0	0	1	9	1	3	0	0	0	0	15
0:30	0	0	1	0	1	1	4	2	1	0	0	0	0	10
0:45	0	1	0	0	0	2	6	0	0	0	0	0	0	9
1:00	0	3	2	0	1	0	1	0	1	0	0	0	0	8
1:15	0	0	0	0	0	0	0	1	0	0	0	0	0	1
1:30	0	0	0	0	1	0	0	2	2	0	0	0	0	5
1:45	0	1	0	0	1	0	0	2	4	0	0	0	0	8
2:00	0	5	0	0	0	0	0	1	4	0	0	0	0	10
2:15	0	0	1	0	0	1	0	2	4	0	0	0	0	8
2:30	0	1	0	0	2	0	0	0	0	0	0	0	0	3
2:45	0	1	2	0	0	1	0	1	0	0	0	0	0	5
3:00	0	0	1	0	0	0	0	1	4	0	0	0	0	6
3:15	0	0	2	0	0	0	0	0	1	0	0	0	0	3
3:30	0	3	0	0	0	1	0	3	2	0	0	0	0	9
3:45	0	0	1	0	0	1	0	0	1	0	0	0	0	3
4:00	0	8	0	0	1	2	0	1	2	0	0	0	0	14
4:15	0	0	2	0	1	1	0	1	4	0	0	0	0	9
4:30	0	5	2	0	0	1	0	0	4	0	0	0	0	12
4:45	0	6	1	0	0	0	0	0	0	0	0	0	0	7
5:00	0	3	0	0	0	1	0	0	1	0	0	0	0	5
5:15	0	3	0	1	0	1	0	0	1	0	0	0	0	6
5:30	0	4	5	0	1	1	0	3	0	0	0	0	0	14
5:45	0	7	3	0	1	3	0	0	2	0	0	0	0	16
6:00	0	6	4	0	1	2	0	2	1	0	0	0	0	16
6:15	0	14	4	0	2	3	1	0	1	0	0	0	0	25
6:30	0	9	4	0	2	2	0	2	1	0	0	0	0	20
6:45	0	4	3	0	3	4	0	0	3	0	0	0	0	17
7:00	0	10	7	1	2	3	0	0	0	0	0	0	0	23
7:15	0	10	2	0	4	2	0	1	0	0	0	0	0	19
7:30	0	11	4	0	1	2	0	2	2	0	0	0	0	22
7:45	0	21	1	1	1	1	0	0	3	0	0	0	0	28
8:00	0	5	1	1	2	3	2	1	2	0	0	0	0	17
8:15	0	17	1	0	3	0	0	3	3	0	0	0	0	27
8:30	0	10	4	0	1	2	0	1	2	0	0	0	0	20
8:45	0	12	3	0	1	2	0	0	1	0	0	0	0	19
9:00	0	16	0	0	1	2	1	2	6	0	0	0	0	28
9:15	0	11	5	0	3	4	0	0	5	0	0	1	0	29
9:30	0	15	2	1	1	0	0	3	5	0	1	0	0	28
9:45	0	15	1	0	2	2	0	5	3	0	1	0	0	29
10:00	2	16	5	0	3	2	0	2	5	0	0	0	0	35
10:15	0	6	9	0	2	4	1	1	11	0	1	0	0	35
10:30	0	6	4	0	2	2	0	3	3	0	0	0	0	20
10:45	1	8	1	0	2	4	0	3	3	0	1	0	0	23
11:00	1	10	11	1	5	3	0	4	4	0	0	0	0	39
11:15	0	11	3	0	2	0	1	6	3	0	0	0	0	26
11:30	0	19	6	0	0	3	0	2	8	0	1	0	0	39
11:45	1	20	9	1	1	1	0	3	9	0	0	1	0	46
TOTAL	5	334	117	7	58	71	32	68	127	0	5	2	0	826

AM PEAK HOUR	11:00 AM
AM PEAK VOLUME	150

PM	EASTBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	0	19	5	0	4	2	0	2	7	0	0	0	1	40
12:15	0	23	4	0	3	2	1	5	7	0	1	1	0	47
12:30	0	7	4	0	3	2	0	3	6	1	0	0	0	26
12:45	0	8	5	1	2	0	0	5	12	0	0	0	0	33
13:00	0	20	7	0	3	4	0	3	8	1	0	0	0	46
13:15	0	24	2	0	2	2	0	2	5	0	1	0	0	38
13:30	0	17	3	0	5	2	1	0	6	0	0	0	0	34
13:45	0	12	6	1	7	3	0	2	11	0	0	0	0	42
14:00	0	21	8	1	3	2	0	5	9	0	0	0	0	49
14:15	0	16	6	0	7	0	0	4	6	0	1	0	0	40
14:30	0	32	4	0	6	3	1	4	8	1	0	0	0	59
14:45	2	67	9	3	7	3	1	3	7	0	0	0	0	102
15:00	0	32	4	0	6	1	0	0	5	0	0	0	0	48
15:15	0	50	7	1	11	2	0	1	6	0	0	0	0	78
15:30	0	59	9	0	3	4	0	3	10	0	0	0	0	88
15:45	0	41	16	0	3	2	0	5	12	0	0	0	0	79
16:00	1	50	9	0	5	1	0	2	3	0	0	0	0	71
16:15	0	55	9	0	2	2	0	2	9	0	0	0	0	79
16:30	0	61	14	0	4	5	0	2	4	0	0	0	0	90
16:45	0	49	16	1	6	3	0	4	9	0	0	0	0	88
17:00	0	60	12	0	1	3	0	0	3	0	0	0	1	80
17:15	0	58	5	0	5	1	0	1	6	0	0	1	0	77
17:30	0	49	7	0	3	1	0	2	5	0	0	0	0	67
17:45	0	37	6	0	2	2	0	3	10	0	0	0	0	60
18:00	0	33	8	0	0	1	0	5	6	0	0	0	0	53
18:15	0	22	2	0	0	3	0	3	8	0	0	0	0	38
18:30	0	15	3	0	3	3	0	1	11	0	0	0	0	36
18:45	0	15	0	0	4	1	0	3	4	0	0	0	0	27
19:00	0	10	3	0	6	3	0	3	2	0	0	0	0	27
19:15	0	16	3	0	2	5	0	0	4	0	0	0	0	30
19:30	0	18	3	0	2	3	1	4	2	0	0	0	0	33
19:45	0	7	1	0	2	1	15	1	1	0	0	0	0	28
20:00	0	9	3	0	3	1	8	2	5	0	0	0	0	31
20:15	0	8	0	0	3	2	5	3	5	0	0	0	0	26
20:30	0	13	1	0	1	1	5	0	0	0	0	0	0	21
20:45	0	5	1	0	0	2	1	1	1	0	0	0	0	11
21:00	0	6	0	0	1	3	1	1	3	0	0	0	0	15
21:15	0	7	0	0	0	0	1	3	2	0	0	0	0	13
21:30	0	5	0	0	1	1	0	1	4	0	0	0	0	12
21:45	0	1	0	0	0	0	4	2	4	0	0	0	0	11
22:00	0	2	1	0	0	2	5	3	3	0	0	0	0	16
22:15	0	4	0	0	1	2	9	1	3	0	0	0	0	20
22:30	0	4	2	0	0	1	7	0	2	0	0	0	0	16
22:45	0	0	2	0	2	0	3	1	0	0	0	0	0	8
23:00	0	2	0	0	0	2	6	2	1	0	0	0	0	13
23:15	0	1	0	0	3	0	0	2	2	0	0	0	0	8
23:30	0	4	1	0	0	0	0	0	5	0	0	0	0	10
23:45	0	3	0	0	1	0	3	0	2	0	0	0	0	9
TOTAL	3	1,077	211	8	138	89	78	105	254	3	3	2	2	1,973

PM PEAK HOUR	4:15 PM
PM PEAK VOLUME	337

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	8	1,411	328	15	196	160	110	173	381	3	8	4	2	2,799
% OF TOTAL	0.3%	50.4%	11.7%	0.5%	7.0%	5.7%	3.9%	6.2%	13.6%	0.1%	0.3%	0.1%	0.1%	100.0%

TOTAL: ALL	16	2,201	484	46	435	361	111	364	813	3	16	6	2	4,858
% OF TOTAL	0.6%	78.6%	17.3%	1.6%	15.5%	12.9%	4.0%	13.0%	29.0%	0.1%	0.6%	0.2%	0.1%	100.0%

24-HOUR ROADWAY SEGMENT COUNTS (WITH FHWA CLASSIFICATION)

PREPARED BY: AimTD LLC. tel: 714 253 7888 cs@aimtd.com

DATE: Tuesday, November 29, 2022
JOB #: SC3761

CITY: Ontario
LOCATION: CLASS1 Schafeer east of Euclid.

AM	WESTBOUND													
TIME	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
0:00	0	1	0	0	1	0	0	0	1	0	0	0	0	3
0:15	0	1	0	0	2	2	0	2	1	0	0	0	0	8
0:30	0	0	0	0	3	2	0	2	1	0	0	0	0	8
0:45	0	1	1	0	0	3	0	2	2	0	0	0	0	9
1:00	0	0	0	0	0	3	0	2	3	0	0	0	0	8
1:15	0	3	0	1	0	4	0	1	5	0	1	0	0	15
1:30	0	1	0	0	0	0	0	0	1	0	0	0	0	2
1:45	0	0	0	0	0	1	0	4	0	0	0	0	0	5
2:00	0	0	0	0	1	1	0	2	1	0	1	0	0	6
2:15	0	0	0	0	1	2	0	0	3	0	0	0	0	6
2:30	0	0	0	0	3	1	0	2	4	0	0	0	0	10
2:45	0	0	0	0	0	0	0	0	2	0	0	0	0	2
3:00	0	0	0	1	0	0	0	0	1	0	1	0	0	3
3:15	0	0	1	0	1	1	0	0	0	0	0	0	0	3
3:30	0	0	0	0	1	1	0	0	2	0	1	0	0	5
3:45	0	2	0	1	1	2	0	1	3	0	0	0	0	10
4:00	0	1	1	0	2	1	0	0	2	0	0	0	0	7
4:15	0	6	0	1	1	1	0	0	3	0	0	0	0	12
4:30	0	4	1	0	1	0	0	0	4	0	0	0	0	10
4:45	0	12	0	2	0	1	0	0	8	0	0	0	0	23
5:00	0	5	0	0	4	6	0	0	3	0	0	0	0	18
5:15	0	4	1	2	4	1	0	2	3	0	0	0	0	17
5:30	0	6	2	0	3	2	0	0	7	0	0	0	0	20
5:45	1	7	6	1	4	4	0	0	2	0	0	0	0	25
6:00	0	8	1	0	5	2	0	0	7	0	0	0	0	23
6:15	0	11	2	0	5	3	0	0	3	0	1	0	0	25
6:30	0	13	4	2	9	0	0	0	11	0	0	0	0	39
6:45	0	23	5	0	4	0	0	1	15	0	0	0	0	48
7:00	0	14	1	1	3	3	0	2	15	0	0	0	0	39
7:15	0	21	3	0	4	1	0	2	18	0	0	0	0	49
7:30	0	24	4	1	6	2	0	3	14	0	0	0	0	54
7:45	1	25	2	2	7	4	0	2	11	0	0	0	0	54
8:00	0	29	0	0	1	1	0	1	11	0	0	0	0	43
8:15	0	14	3	0	7	7	0	1	11	0	0	0	0	43
8:30	0	14	4	0	3	4	0	2	4	0	0	0	0	31
8:45	0	19	3	1	4	4	0	3	7	0	0	0	0	41
9:00	0	18	5	0	3	1	0	1	4	0	0	0	0	32
9:15	0	13	0	2	2	2	0	2	5	0	0	0	0	26
9:30	1	17	2	0	6	1	0	3	9	0	0	0	0	39
9:45	1	10	4	0	4	3	0	1	6	0	1	0	0	30
10:00	0	8	2	0	4	0	0	3	7	0	0	0	0	24
10:15	0	8	1	0	0	3	0	6	4	0	0	0	0	22
10:30	0	15	1	0	5	1	0	7	12	0	0	0	0	41
10:45	0	11	4	1	5	2	0	3	9	0	0	0	0	35
11:00	0	10	1	0	7	4	0	1	7	0	0	0	0	30
11:15	0	8	3	0	6	5	0	6	11	0	1	0	0	40
11:30	0	9	3	0	5	2	0	6	9	0	0	0	0	34
11:45	0	14	1	1	1	2	0	6	7	0	0	1	0	33
TOTAL	4	410	72	20	139	96	0	82	279	0	7	1	0	1,110

AM PEAK HOUR	7:15 AM
AM PEAK VOLUME	200

PM	WESTBOUND													
Time	1	2	3	4	5	6	7	8	9	10	11	12	13	TOTAL
12:00	0	11	3	0	1	7	0	1	9	0	0	0	0	32
12:15	0	6	1	0	4	2	0	1	6	0	0	0	0	20
12:30	0	12	2	0	3	0	0	2	10	0	0	0	0	29
12:45	0	7	1	0	4	0	0	3	9	0	1	0	0	25
13:00	0	11	5	0	3	1	1	3	4	0	0	0	0	28
13:15	0	10	4	0	6	0	0	6	2	0	0	0	0	28
13:30	0	6	3	1	5	1	0	0	8	0	0	0	0	24
13:45	0	13	3	0	2	0	0	2	3	0	0	0	0	23
14:00	0	13	3	0	4	1	0	4	2	0	0	0	0	27
14:15	0	16	1	0	5	1	0	3	3	0	0	0	0	29
14:30	1	19	5	1	3	2	0	2	5	0	0	0	0	38
14:45	0	15	0	0	5	0	0	3	1	0	0	0	0	24
15:00	0	11	2	1	5	3	0	5	6	0	0	0	0	33
15:15	1	10	6	0	2	2	0	2	1	0	0	0	0	24
15:30	0	10	2	0	4	5	0	0	2	0	0	0	0	23
15:45	0	9	2	0	0	0	0	3	1	0	0	0	0	15
16:00	0	22	1	0	2	0	0	2	2	0	0	0	0	29
16:15	0	13	2	0	4	2	0	3	1	0	0	0	0	25
16:30	0	18	1	0	2	1	0	0	0	0	0	0	0	22
16:45	0	9	3	0	1	3	0	0	1	0	0	0	0	17
17:00	0	18	4	0	3	1	0	2	1	0	0	0	0	29
17:15	0	11	0	0	3	0	0	7	2	0	0	0	0	23
17:30	0	8	9	0	2	1	0	2	4	0	0	0	0	26
17:45	0	12	3	0	2	0	0	1	6	0	0	1	0	25
18:00	0	12	1	1	1	1	0	2	5	0	0	0	0	23
18:15	0	6	4	0	3	1	0	3	2	0	0	0	0	19
18:30	1	5	2	0	1	0	0	3	2	0	0	0	0	14
18:45	0	9	1	0	3	3	0	2	6	0	0	0	0	24
19:00	0	8	0	0	1	1	0	4	4	0	0	0	0	18
19:15	0	9	2	0	1	1	0	1	3	0	0	0	0	17
19:30	0	4	1	0	1	0	0	4	5	0	0	0	0	15
19:45	0	6	2	3	1	2	0	1	5	0	0	0	0	20
20:00	0	5	0	0	4	5	0	2	2	0	0	0	0	18
20:15	0	0	0	0	0	8	0	1	1	0	0	0	0	10
20:30	0	3	0	0	0	8	0	4	1	0	0	0	0	16
20:45	0	5	2	0	2	3	0	1	2	0	0	0	0	15
21:00	0	1	2	0	0	2	0	0	0	0	0	0	0	5
21:15	0	2	0	0	2	3	0	3	1	0	0	0	0	11
21:30	0	6	0	1	1	0	0	3	3	0	0	0	0	14
21:45	0	2	0	0	0	4	0	3	2	0	0	0	0	11
22:00	0	2	0	0	1	1	0	0	4	0	0	0	0	8
22:15	0	1	0	1	1	7	0	4	4	0	0	0	0	18
22:30	0	1	0	0	1	4	0	4	1	0	0	0	0	11
22:45	0	1	1	1	0	6	0	0	6	0	0	0	0	15
23:00	1	0	0	0	0	2	0	0	0	0	0	0	0	3
23:15	0	1	0	0	0	8	0	2	2	0	0	0	0	13
23:30	0	0	0	1	0	2	0	2	2	0	0	0	0	7
23:45	0	1	0	0	1	0	0	3	1	0	0	0	0	6
TOTAL	4	380	84	11	100	105	1	109	153	0	1	1	0	949

PM PEAK HOUR	2:15 PM
PM PEAK VOLUME	124

CLASS 1	Class 1 — Motorcycles	**CLASS 8**	3 to 4 Axles, Single Trailer
CLASS 2	Passenger Cars	**CLASS 9**	5 Axles, Single Trailer
CLASS 3	2 Axles, 4-Tire Single Units	**CLASS 10**	6 or More Axles, Single Trailer
CLASS 4	Buses	**CLASS 11**	5 or Less Axles, Multi-Trailers
CLASS 5	2 Axles, 6-Tire Single Units	**CLASS 12**	6 Axles, Multi-Trailers
CLASS 6	3 Axles, Single Unit	**CLASS 13**	7 or More Axles, Multi-Trailers
CLASS 7	4 or More Axles, Single Unit		

TOTAL: AM+PM	8	790	156	31	239	201	1	191	432	0	8	2	0	2,059
% OF TOTAL	0.4%	38.4%	7.6%	1.5%	11.6%	9.8%	0.0%	9.3%	21.0%	0.0%	0.4%	0.1%	0.0%	100.0%

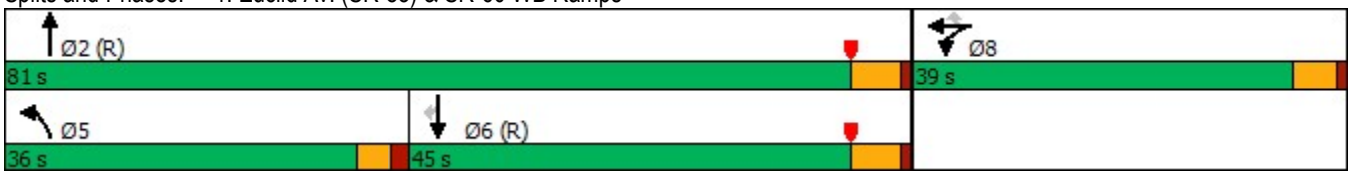
APPENDIX 3.2: EXISTING (2022) CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

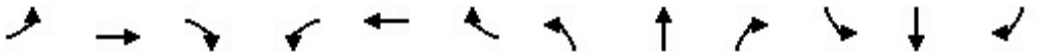
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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	564	7	368	320	857	882	351
Future Volume (vph)	564	7	368	320	857	882	351
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5	22.5
Total Split (s)	39.0	39.0	39.0	36.0	81.0	45.0	45.0
Total Split (%)	32.5%	32.5%	32.5%	30.0%	67.5%	37.5%	37.5%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5	5.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min
Act Effct Green (s)	29.0	29.0	29.0	26.3	80.5	49.7	49.7
Actuated g/C Ratio	0.24	0.24	0.24	0.22	0.67	0.41	0.41
v/c Ratio	0.85	0.86	0.65	0.87	0.38	0.63	0.43
Control Delay	62.1	62.4	25.5	73.3	9.0	32.4	4.7
Queue Delay	0.3	0.4	0.0	0.0	0.2	0.0	0.0
Total Delay	62.4	62.7	25.5	73.3	9.2	32.4	4.7
LOS	E	E	C	E	A	C	A
Approach Delay		50.9			26.6	24.6	
Approach LOS		D			C	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.87	
Intersection Signal Delay: 32.7	Intersection LOS: C
Intersection Capacity Utilization 99.0%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	564	7	368	320	857	0	0	882	351
Future Volume (veh/h)	0	0	0	564	7	368	320	857	0	0	882	351
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				679	0	153	344	922	0	0	948	210
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				760	0	338	366	2536	0	0	1671	745
Arrive On Green				0.21	0.00	0.21	0.40	1.00	0.00	0.00	0.46	0.46
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				679	0	153	344	922	0	0	948	210
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				21.9	0.0	10.0	21.9	0.0	0.0	0.0	23.0	9.7
Cycle Q Clear(g_c), s				21.9	0.0	10.0	21.9	0.0	0.0	0.0	23.0	9.7
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				760	0	338	366	2536	0	0	1671	745
V/C Ratio(X)				0.89	0.00	0.45	0.94	0.36	0.00	0.00	0.57	0.28
Avail Cap(c_a), veh/h				1025	0	456	475	2536	0	0	1671	745
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.70	0.70	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				46.1	0.0	41.4	35.1	0.0	0.0	0.0	23.5	19.9
Incr Delay (d2), s/veh				6.6	0.0	0.4	16.6	0.3	0.0	0.0	1.4	0.9
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				10.2	0.0	3.9	9.0	0.1	0.0	0.0	9.7	3.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				52.7	0.0	41.7	51.6	0.3	0.0	0.0	24.9	20.8
LnGrp LOS				D	A	D	D	A	A	A	C	C
Approach Vol, veh/h					832			1266			1158	
Approach Delay, s/veh					50.7			14.2			24.1	
Approach LOS					D			B			C	

Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		89.8			28.8	61.1		30.2				
Change Period (Y+Rc), s		5.5			4.5	5.5		5.0				
Max Green Setting (Gmax), s		75.5			31.5	39.5		34.0				
Max Q Clear Time (g_c+I1), s		2.0			23.9	25.0		23.9				
Green Ext Time (p_c), s		11.8			0.3	7.9		1.3				

Intersection Summary												
HCM 6th Ctrl Delay			27.1									
HCM 6th LOS			C									

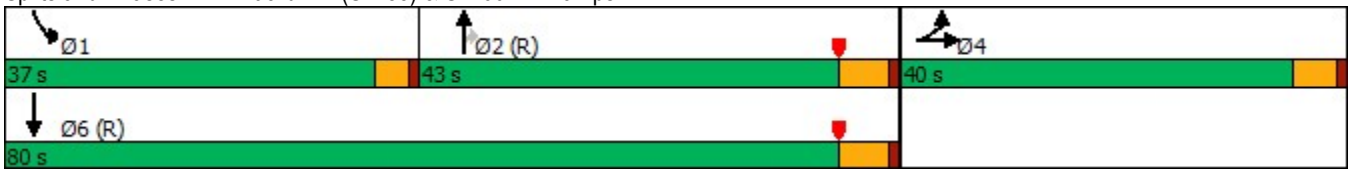
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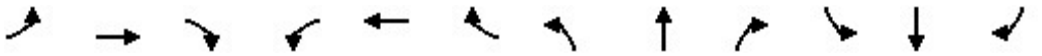
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	387	0	791	692	373	1073
Future Volume (vph)	387	0	791	692	373	1073
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	40.0	40.0	43.0	43.0	37.0	80.0
Total Split (%)	33.3%	33.3%	35.8%	35.8%	30.8%	66.7%
Yellow Time (s)	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	31.5	31.5	45.1	45.1	28.9	78.0
Actuated g/C Ratio	0.26	0.26	0.38	0.38	0.24	0.65
v/c Ratio	0.80	0.93	0.60	0.72	0.89	0.47
Control Delay	54.7	60.5	34.3	9.2	77.2	13.1
Queue Delay	0.0	0.0	0.0	0.0	0.2	0.2
Total Delay	54.7	60.5	34.3	9.2	77.4	13.3
LOS	D	E	C	A	E	B
Approach Delay		57.9	22.6			29.9
Approach LOS		E	C			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 75	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.93	
Intersection Signal Delay: 32.9	Intersection LOS: C
Intersection Capacity Utilization 99.0%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	387	0	399	0	0	0	0	791	692	373	1073	0
Future Volume (veh/h)	387	0	399	0	0	0	0	791	692	373	1073	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	365	47	332				0	815	518	385	1106	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	455	51	361				0	1458	633	405	2387	0
Arrive On Green	0.25	0.25	0.25				0.00	0.40	0.40	0.45	1.00	0.00
Sat Flow, veh/h	1810	204	1438				0	3705	1569	1810	3705	0
Grp Volume(v), veh/h	365	0	379				0	815	518	385	1106	0
Grp Sat Flow(s),veh/h/ln	1810	0	1641				0	1805	1569	1810	1805	0
Q Serve(g_s), s	22.7	0.0	27.0				0.0	20.9	35.3	24.5	0.0	0.0
Cycle Q Clear(g_c), s	22.7	0.0	27.0				0.0	20.9	35.3	24.5	0.0	0.0
Prop In Lane	1.00		0.88				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	455	0	413				0	1458	633	405	2387	0
V/C Ratio(X)	0.80	0.00	0.92				0.00	0.56	0.82	0.95	0.46	0.00
Avail Cap(c_a), veh/h	528	0	479				0	1458	633	498	2387	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.76	0.76	0.66	0.66	0.00
Uniform Delay (d), s/veh	42.1	0.0	43.7				0.0	27.6	31.8	32.5	0.0	0.0
Incr Delay (d2), s/veh	6.5	0.0	19.7				0.0	1.2	8.8	18.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.6	0.0	12.8				0.0	8.9	14.3	9.9	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	48.6	0.0	63.5				0.0	28.7	40.6	50.5	0.4	0.0
LnGrp LOS	D	A	E				A	C	D	D	A	A
Approach Vol, veh/h		744						1333			1491	
Approach Delay, s/veh		56.2						33.3			13.4	
Approach LOS		E						C			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	30.9	54.0		35.2		84.8
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	33.0	37.5		35.0		74.5
Max Q Clear Time (g_c+I1), s	26.5	37.3		29.0		2.0
Green Ext Time (p_c), s	0.4	0.2		1.2		15.8

Intersection Summary	
HCM 6th Ctrl Delay	29.7
HCM 6th LOS	C

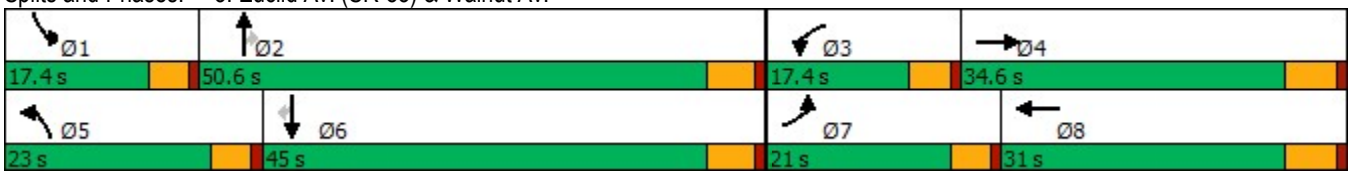
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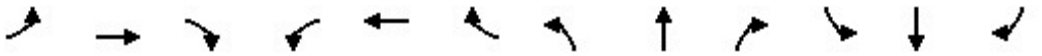
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	95	245	86	371	88	1215	29	178	1116	57
Future Volume (vph)	95	245	86	371	88	1215	29	178	1116	57
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	10.0	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	9.6	29.8	9.6	29.8	9.6	27.4	27.4	9.6	29.4	29.4
Total Split (s)	21.0	34.6	17.4	31.0	23.0	50.6	50.6	17.4	45.0	45.0
Total Split (%)	17.5%	28.8%	14.5%	25.8%	19.2%	42.2%	42.2%	14.5%	37.5%	37.5%
Yellow Time (s)	3.6	4.8	3.6	4.8	3.6	4.4	4.4	3.6	4.4	4.4
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	4.6	5.4	5.4	4.6	5.4	5.4
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	11.0	24.5	9.9	21.1	10.6	45.6	45.6	10.6	48.1	48.1
Actuated g/C Ratio	0.10	0.23	0.09	0.19	0.10	0.42	0.42	0.10	0.44	0.44
v/c Ratio	0.60	0.47	0.61	0.81	0.58	0.61	0.04	0.64	0.53	0.08
Control Delay	64.0	34.3	67.0	48.9	63.3	27.5	0.1	59.2	25.9	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	64.0	34.3	67.0	48.9	63.3	27.5	0.1	59.2	25.9	0.2
LOS	E	C	E	D	E	C	A	E	C	A
Approach Delay		40.6		51.5		29.3			29.2	
Approach LOS		D		D		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 108.8	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.81	
Intersection Signal Delay: 34.2	Intersection LOS: C
Intersection Capacity Utilization 70.1%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	95	245	106	86	371	155	88	1215	29	178	1116	57
Future Volume (veh/h)	95	245	106	86	371	155	88	1215	29	178	1116	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	98	253	73	89	382	130	91	1253	17	184	1151	41
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	121	511	144	111	471	158	113	2221	689	242	2278	707
Arrive On Green	0.07	0.19	0.19	0.07	0.19	0.19	0.07	0.45	0.45	0.08	0.46	0.46
Sat Flow, veh/h	1619	2633	743	1619	2512	843	1619	4914	1524	2956	4914	1524
Grp Volume(v), veh/h	98	162	164	89	258	254	91	1253	17	184	1151	41
Grp Sat Flow(s),veh/h/ln	1619	1710	1666	1619	1710	1645	1619	1638	1524	1478	1638	1524
Q Serve(g_s), s	6.0	8.5	8.8	5.4	14.5	14.8	5.5	18.8	0.6	6.1	16.4	1.5
Cycle Q Clear(g_c), s	6.0	8.5	8.8	5.4	14.5	14.8	5.5	18.8	0.6	6.1	16.4	1.5
Prop In Lane	1.00		0.45	1.00		0.51	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	121	332	323	111	321	308	113	2221	689	242	2278	707
V/C Ratio(X)	0.81	0.49	0.51	0.81	0.81	0.82	0.80	0.56	0.02	0.76	0.51	0.06
Avail Cap(c_a), veh/h	265	492	480	207	431	414	298	2221	689	378	2278	707
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.6	35.9	36.0	45.9	38.9	39.0	45.8	20.2	15.2	45.0	18.8	14.8
Incr Delay (d2), s/veh	4.7	1.1	1.2	5.1	8.0	9.4	4.9	1.0	0.1	1.9	0.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	3.5	3.5	2.3	6.5	6.5	2.3	6.9	0.2	2.2	6.0	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.3	37.0	37.2	51.0	46.9	48.5	50.8	21.2	15.3	46.8	19.6	14.9
LnGrp LOS	D	D	D	D	D	D	D	C	B	D	B	B
Approach Vol, veh/h		424			601			1361			1376	
Approach Delay, s/veh		40.2			48.2			23.1			23.1	
Approach LOS		D			D			C			C	

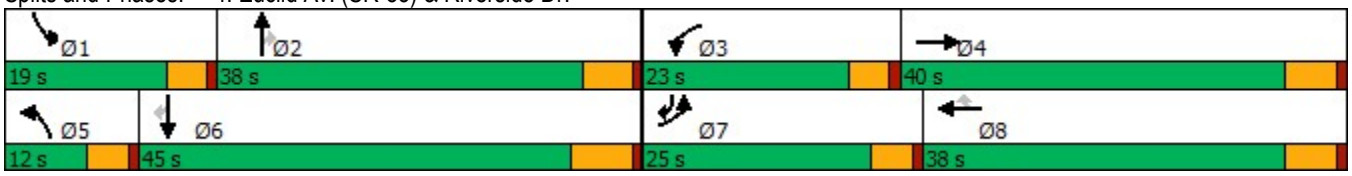
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.8	50.6	11.4	25.2	11.6	51.8	12.1	24.6
Change Period (Y+Rc), s	4.6	5.4	4.6	5.8	4.6	5.4	4.6	5.8
Max Green Setting (Gmax), s	12.8	45.2	12.8	28.8	18.4	39.6	16.4	25.2
Max Q Clear Time (g_c+I1), s	8.1	20.8	7.4	10.8	7.5	18.4	8.0	16.8
Green Ext Time (p_c), s	0.1	9.5	0.0	1.5	0.1	8.1	0.1	1.8

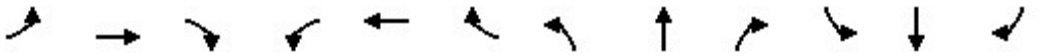
Intersection Summary	
HCM 6th Ctrl Delay	29.0
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	167	324	194	458	98	36	824	78	220	979	119
Future Volume (vph)	167	324	194	458	98	36	824	78	220	979	119
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	25.0	40.0	23.0	38.0	38.0	12.0	38.0	38.0	19.0	45.0	25.0
Total Split (%)	20.8%	33.3%	19.2%	31.7%	31.7%	10.0%	31.7%	31.7%	15.8%	37.5%	20.8%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	15.4	27.6	16.3	28.5	28.5	6.5	30.7	30.7	14.6	42.2	64.2
Actuated g/C Ratio	0.14	0.25	0.15	0.26	0.26	0.06	0.28	0.28	0.13	0.38	0.58
v/c Ratio	0.75	0.85	0.83	0.53	0.20	0.39	0.88	0.15	1.05	0.76	0.13
Control Delay	67.3	56.8	74.6	37.9	1.7	65.5	50.8	0.6	122.8	36.9	2.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	67.3	56.8	74.6	37.9	1.7	65.5	50.8	0.6	122.8	36.9	2.7
LOS	E	E	E	D	A	E	D	A	F	D	A
Approach Delay		60.0		42.7			47.2			48.2	
Approach LOS		E		D			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 109.9	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.05	
Intersection Signal Delay: 48.5	Intersection LOS: D
Intersection Capacity Utilization 87.6%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	167	324	46	194	458	98	36	824	78	220	979	119
Future Volume (veh/h)	167	324	46	194	458	98	36	824	78	220	979	119
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	170	331	20	198	467	48	37	841	38	224	999	66
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	199	377	23	227	828	364	52	964	430	230	1339	785
Arrive On Green	0.12	0.22	0.22	0.14	0.24	0.24	0.03	0.28	0.28	0.14	0.39	0.39
Sat Flow, veh/h	1619	1679	101	1619	3420	1502	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	170	0	351	198	467	48	37	841	38	224	999	66
Grp Sat Flow(s),veh/h/ln	1619	0	1780	1619	1710	1502	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	10.5	0.0	19.3	12.2	12.2	2.5	2.3	23.8	1.9	14.0	25.5	2.2
Cycle Q Clear(g_c), s	10.5	0.0	19.3	12.2	12.2	2.5	2.3	23.8	1.9	14.0	25.5	2.2
Prop In Lane	1.00		0.06	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	199	0	400	227	828	364	52	964	430	230	1339	785
V/C Ratio(X)	0.85	0.00	0.88	0.87	0.56	0.13	0.72	0.87	0.09	0.98	0.75	0.08
Avail Cap(c_a), veh/h	325	0	599	293	1084	476	118	1098	490	230	1339	785
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.7	0.0	38.0	42.8	33.8	30.1	48.7	34.7	26.9	43.4	26.6	12.5
Incr Delay (d2), s/veh	6.0	0.0	9.6	17.0	0.6	0.2	6.7	7.2	0.1	52.2	2.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	0.0	9.1	5.7	4.9	0.9	1.0	10.0	0.7	8.7	10.2	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.6	0.0	47.6	59.8	34.4	30.3	55.4	42.0	27.0	95.6	28.9	12.6
LnGrp LOS	D	A	D	E	C	C	E	D	C	F	C	B
Approach Vol, veh/h		521			713			916			1289	
Approach Delay, s/veh		48.3			41.2			41.9			39.6	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	35.1	18.8	28.6	7.8	46.3	17.1	30.4
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	14.4	* 33	18.4	34.2	7.4	38.5	20.4	32.2
Max Q Clear Time (g_c+I1), s	16.0	25.8	14.2	21.3	4.3	27.5	12.5	14.2
Green Ext Time (p_c), s	0.0	2.8	0.1	1.5	0.0	5.1	0.1	2.7

Intersection Summary	
HCM 6th Ctrl Delay	41.9
HCM 6th LOS	D

Notes

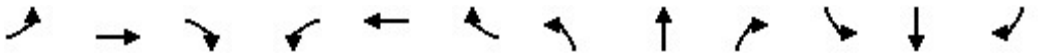
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	70	178	42	95	276	32	799	111	79	1014	86
Future Volume (vph)	70	178	42	95	276	32	799	111	79	1014	86
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	52.0	52.0	52.0	52.0	52.0	12.0	52.0	52.0	16.0	56.0	56.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	43.3%	10.0%	43.3%	43.3%	13.3%	46.7%	46.7%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	42.3	42.3	42.3		42.3	6.4	48.4	48.4	9.3	51.8	51.8
Actuated g/C Ratio	0.37	0.37	0.37		0.37	0.06	0.43	0.43	0.08	0.46	0.46
v/c Ratio	0.35	0.28	0.07		0.95	0.36	0.57	0.17	0.62	0.68	0.12
Control Delay	31.8	26.4	2.0		61.5	65.2	28.4	11.7	72.4	28.7	4.9
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	31.8	26.4	2.0		61.5	65.2	28.4	11.7	72.4	28.7	4.9
LOS	C	C	A		E	E	C	B	E	C	A
Approach Delay		24.1			61.5		27.7			29.8	
Approach LOS		C			E		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 113.2	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.95	
Intersection Signal Delay: 34.2	Intersection LOS: C
Intersection Capacity Utilization 93.3%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	70	178	42	95	276	153	32	799	111	79	1014	86
Future Volume (veh/h)	70	178	42	95	276	153	32	799	111	79	1014	86
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	73	185	23	99	288	158	33	832	76	82	1056	53
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	207	693	588	126	316	165	46	1387	619	101	1505	671
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.03	0.41	0.41	0.06	0.44	0.44
Sat Flow, veh/h	858	1800	1525	230	821	429	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	73	185	23	545	0	0	33	832	76	82	1056	53
Grp Sat Flow(s),veh/h/ln	858	1800	1525	1480	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	8.1	1.1	33.4	0.0	0.0	2.3	22.0	3.6	5.8	28.9	2.3
Cycle Q Clear(g_c), s	19.2	8.1	1.1	41.6	0.0	0.0	2.3	22.0	3.6	5.8	28.9	2.3
Prop In Lane	1.00		1.00	0.18		0.29	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	207	693	588	607	0	0	46	1387	619	101	1505	671
V/C Ratio(X)	0.35	0.27	0.04	0.90	0.00	0.00	0.72	0.60	0.12	0.81	0.70	0.08
Avail Cap(c_a), veh/h	220	721	611	631	0	0	104	1387	619	160	1505	671
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.7	24.3	22.1	35.2	0.0	0.0	55.6	26.9	21.4	53.4	26.2	18.7
Incr Delay (d2), s/veh	1.0	0.2	0.0	15.4	0.0	0.0	7.7	1.9	0.4	7.1	2.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	3.4	0.4	16.6	0.0	0.0	1.0	8.6	1.3	2.4	11.2	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.7	24.5	22.2	50.6	0.0	0.0	63.3	28.8	21.8	60.5	28.9	19.0
LnGrp LOS	C	C	C	D	A	A	E	C	C	E	C	B
Approach Vol, veh/h		281			545			941			1191	
Approach Delay, s/veh		25.4			50.6			29.5			30.7	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.8	53.3		50.2	7.9	57.3		50.2				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 47		46.2	7.4	49.5		46.2				
Max Q Clear Time (g_c+I1), s	7.8	24.0		21.2	4.3	30.9		43.6				
Green Ext Time (p_c), s	0.0	5.3		1.4	0.0	6.5		0.9				

Intersection Summary	
HCM 6th Ctrl Delay	33.5
HCM 6th LOS	C

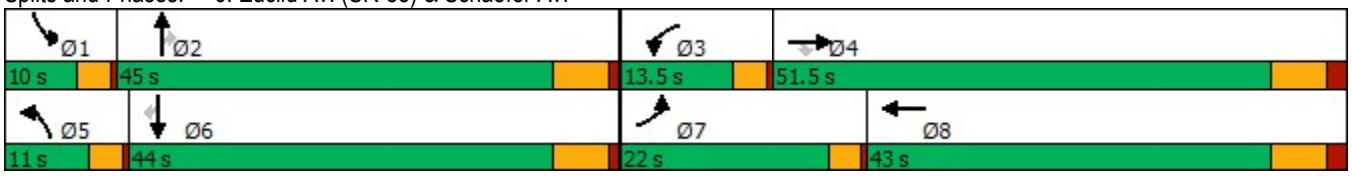
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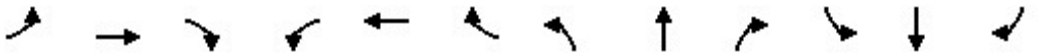
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	146	52	70	2	3	59	800	31	47	1027	127
Future Volume (vph)	146	52	70	2	3	59	800	31	47	1027	127
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	22.0	51.5	51.5	13.5	43.0	11.0	45.0	45.0	10.0	44.0	44.0
Total Split (%)	18.3%	42.9%	42.9%	11.3%	35.8%	9.2%	37.5%	37.5%	8.3%	36.7%	36.7%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	12.4	14.6	14.6	10.9	9.5	7.2	40.6	40.6	6.5	37.5	37.5
Actuated g/C Ratio	0.16	0.19	0.19	0.14	0.12	0.09	0.53	0.53	0.08	0.49	0.49
v/c Ratio	0.58	0.16	0.20	0.01	0.05	0.41	0.46	0.04	0.36	0.64	0.16
Control Delay	44.3	25.6	4.9	42.5	21.1	49.2	18.0	0.1	49.5	22.0	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	44.3	25.6	4.9	42.5	21.1	49.2	18.0	0.1	49.5	22.0	5.2
LOS	D	C	A	D	C	D	B	A	D	C	A
Approach Delay		30.4			24.4		19.4			21.3	
Approach LOS		C			C		B			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 76.6	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.64	
Intersection Signal Delay: 21.6	Intersection LOS: C
Intersection Capacity Utilization 64.0%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	146	52	70	2	3	8	59	800	31	47	1027	127
Future Volume (veh/h)	146	52	70	2	3	8	59	800	31	47	1027	127
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	152	54	36	2	3	5	61	833	32	49	1070	95
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	190	324	275	9	42	69	87	1456	649	76	1433	639
Arrive On Green	0.12	0.18	0.18	0.01	0.07	0.07	0.05	0.43	0.43	0.05	0.42	0.42
Sat Flow, veh/h	1619	1800	1525	1619	607	1011	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	152	54	36	2	0	8	61	833	32	49	1070	95
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1618	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	5.4	1.5	1.2	0.1	0.0	0.3	2.2	10.8	0.7	1.7	15.5	2.3
Cycle Q Clear(g_c), s	5.4	1.5	1.2	0.1	0.0	0.3	2.2	10.8	0.7	1.7	15.5	2.3
Prop In Lane	1.00		1.00	1.00		0.63	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	190	324	275	9	0	111	87	1456	649	76	1433	639
V/C Ratio(X)	0.80	0.17	0.13	0.23	0.00	0.07	0.70	0.57	0.05	0.65	0.75	0.15
Avail Cap(c_a), veh/h	512	1368	1160	277	0	995	207	2279	1016	180	2220	990
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.2	20.3	20.1	29.0	0.0	25.5	27.2	12.8	9.9	27.4	14.4	10.5
Incr Delay (d2), s/veh	3.0	0.2	0.2	4.7	0.0	0.2	3.8	0.4	0.0	3.4	0.8	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	0.6	0.4	0.0	0.0	0.1	0.8	3.0	0.2	0.6	4.4	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.2	20.5	20.3	33.7	0.0	25.7	31.0	13.1	9.9	30.8	15.2	10.6
LnGrp LOS	C	C	C	C	A	C	C	B	A	C	B	B
Approach Vol, veh/h		242			10			926			1214	
Approach Delay, s/veh		25.3			27.3			14.2			15.5	
Approach LOS		C			C			B			B	

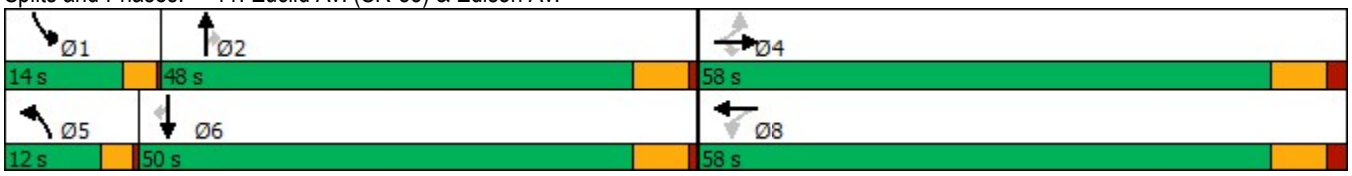
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.2	30.9	3.8	17.5	6.6	30.5	10.4	11.0
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	6.5	39.0	10.0	44.5	7.5	38.0	18.5	36.0
Max Q Clear Time (g_c+I1), s	3.7	12.8	2.1	3.5	4.2	17.5	7.4	2.3
Green Ext Time (p_c), s	0.0	5.4	0.0	0.3	0.0	7.0	0.1	0.0

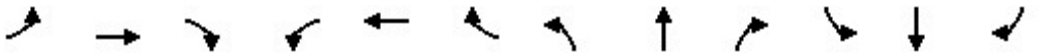
Intersection Summary	
HCM 6th Ctrl Delay	16.0
HCM 6th LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	192	163	96	91	404	116	643	44	66	732	226
Future Volume (vph)	192	163	96	91	404	116	643	44	66	732	226
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	58.0	58.0	58.0	58.0	58.0	12.0	48.0	48.0	14.0	50.0	50.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	10.0%	40.0%	40.0%	11.7%	41.7%	41.7%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	45.9	45.9	45.9	45.9	45.9	7.6	31.2	31.2	8.3	29.4	29.4
Actuated g/C Ratio	0.46	0.46	0.46	0.46	0.46	0.08	0.31	0.31	0.08	0.29	0.29
v/c Ratio	0.76	0.20	0.13	0.19	0.62	0.50	0.62	0.09	0.51	0.75	0.38
Control Delay	45.5	18.1	4.3	18.8	25.0	55.8	34.2	3.2	61.9	37.7	5.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.5	18.1	4.3	18.8	25.0	55.8	34.2	3.2	61.9	37.7	5.5
LOS	D	B	A	B	C	E	C	A	E	D	A
Approach Delay		26.8			24.0		35.6			32.1	
Approach LOS		C			C		D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 100	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.76	
Intersection Signal Delay: 30.6	Intersection LOS: C
Intersection Capacity Utilization 86.0%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	192	163	96	91	404	81	116	643	44	66	732	226
Future Volume (veh/h)	192	163	96	91	404	81	116	643	44	66	732	226
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	198	168	63	94	416	74	120	663	38	68	755	198
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	302	854	724	519	706	126	179	995	442	85	979	436
Arrive On Green	0.47	0.47	0.47	0.47	0.47	0.47	0.06	0.29	0.29	0.05	0.29	0.29
Sat Flow, veh/h	823	1800	1524	1044	1487	265	3141	3420	1520	1619	3420	1524
Grp Volume(v), veh/h	198	168	63	94	0	490	120	663	38	68	755	198
Grp Sat Flow(s),veh/h/ln	823	1800	1524	1044	0	1752	1570	1710	1520	1619	1710	1524
Q Serve(g_s), s	20.9	4.9	2.1	5.2	0.0	18.5	3.4	15.4	1.6	3.8	18.3	9.7
Cycle Q Clear(g_c), s	39.4	4.9	2.1	10.1	0.0	18.5	3.4	15.4	1.6	3.8	18.3	9.7
Prop In Lane	1.00		1.00	1.00		0.15	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	302	854	724	519	0	831	179	995	442	85	979	436
V/C Ratio(X)	0.66	0.20	0.09	0.18	0.00	0.59	0.67	0.67	0.09	0.80	0.77	0.45
Avail Cap(c_a), veh/h	375	1013	858	611	0	986	295	1586	705	188	1661	740
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.7	13.8	13.0	16.7	0.0	17.4	41.9	28.2	23.4	42.5	29.6	26.5
Incr Delay (d2), s/veh	2.9	0.1	0.1	0.2	0.0	0.7	1.6	0.8	0.1	6.5	1.3	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.1	1.8	0.6	1.2	0.0	6.7	1.3	5.8	0.5	1.6	6.9	3.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	34.6	13.9	13.1	16.9	0.0	18.0	43.5	29.0	23.4	48.9	30.9	27.3
LnGrp LOS	C	B	B	B	A	B	D	C	C	D	C	C
Approach Vol, veh/h		429			584			821			1021	
Approach Delay, s/veh		23.3			17.8			30.9			31.4	
Approach LOS		C			B			C			C	

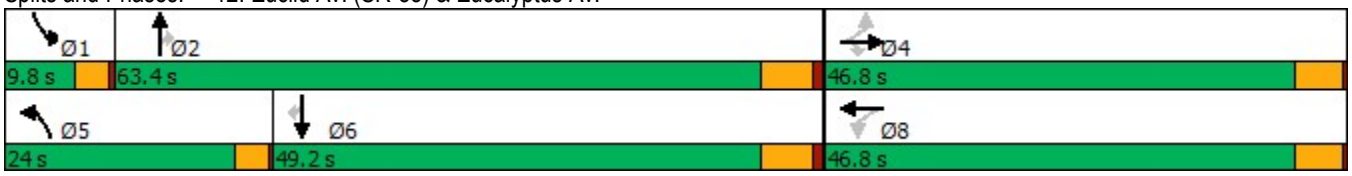
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	8.2	32.4		50.0	8.7	31.9		50.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	10.5	42.0		51.0	8.5	44.0		51.0				
Max Q Clear Time (g_c+I1), s	5.8	17.4		41.4	5.4	20.3		20.5				
Green Ext Time (p_c), s	0.0	4.1		1.6	0.0	5.3		3.5				

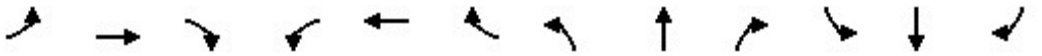
Intersection Summary												
HCM 6th Ctrl Delay			27.3									
HCM 6th LOS			C									

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	56	20	132	28	137	145	750	14	27	976	35
Future Volume (vph)	56	20	132	28	137	145	750	14	27	976	35
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	24.0	63.4	63.4	9.8	49.2	49.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	20.0%	52.8%	52.8%	8.2%	41.0%	41.0%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	16.3	16.3	16.3	16.3	16.3	13.2	44.6	44.6	6.3	30.6	30.6
Actuated g/C Ratio	0.22	0.22	0.22	0.22	0.22	0.17	0.59	0.59	0.08	0.41	0.41
v/c Ratio	0.29	0.06	0.32	0.11	0.48	0.55	0.40	0.02	0.21	0.76	0.06
Control Delay	30.6	25.8	7.1	26.6	29.7	41.5	11.5	0.0	46.6	25.5	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	30.6	25.8	7.1	26.6	29.7	41.5	11.5	0.0	46.6	25.5	0.3
LOS	C	C	A	C	C	D	B	A	D	C	A
Approach Delay		15.2			29.2		16.1			25.2	
Approach LOS		B			C		B			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 75.5	
Natural Cycle: 95	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.76	
Intersection Signal Delay: 21.2	Intersection LOS: C
Intersection Capacity Utilization 67.6%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	20	132	28	137	36	145	750	14	27	976	35
Future Volume (veh/h)	56	20	132	28	137	36	145	750	14	27	976	35
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	60	22	57	30	147	33	156	806	13	29	1049	26
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	239	340	289	349	269	60	197	1769	789	53	1464	652
Arrive On Green	0.19	0.19	0.19	0.19	0.19	0.19	0.12	0.52	0.52	0.03	0.43	0.43
Sat Flow, veh/h	1094	1800	1525	1200	1423	319	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	60	22	57	30	0	180	156	806	13	29	1049	26
Grp Sat Flow(s),veh/h/ln	1094	1800	1525	1200	0	1742	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	2.8	0.5	1.7	1.1	0.0	5.0	5.0	8.0	0.2	0.9	13.6	0.5
Cycle Q Clear(g_c), s	7.8	0.5	1.7	1.7	0.0	5.0	5.0	8.0	0.2	0.9	13.6	0.5
Prop In Lane	1.00		1.00	1.00		0.18	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	239	340	289	349	0	330	197	1769	789	53	1464	652
V/C Ratio(X)	0.25	0.06	0.20	0.09	0.00	0.55	0.79	0.46	0.02	0.55	0.72	0.04
Avail Cap(c_a), veh/h	889	1409	1194	1061	0	1364	619	3679	1641	190	2773	1236
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.2	17.9	18.3	18.5	0.0	19.7	22.9	8.2	6.3	25.6	12.7	8.9
Incr Delay (d2), s/veh	0.4	0.1	0.2	0.1	0.0	1.0	5.3	0.2	0.0	6.4	0.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.2	0.5	0.3	0.0	1.8	1.9	1.7	0.0	0.4	3.5	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.6	17.9	18.6	18.6	0.0	20.7	28.2	8.4	6.3	32.0	13.3	8.9
LnGrp LOS	C	B	B	B	A	C	C	A	A	C	B	A
Approach Vol, veh/h		139			210			975			1104	
Approach Delay, s/veh		20.6			20.4			11.5			13.7	
Approach LOS		C			C			B			B	

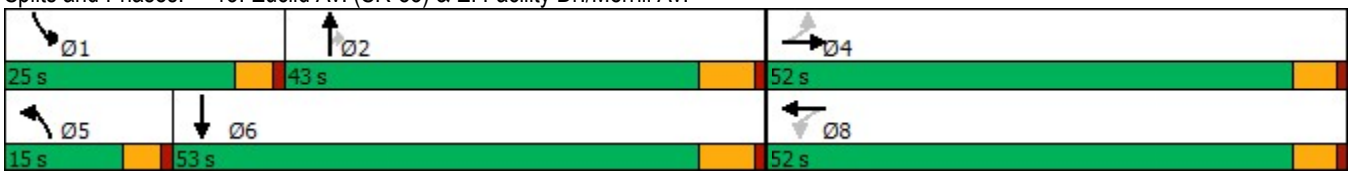
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.3	33.4		14.9	10.0	28.7		14.9				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	6.3	57.7		42.0	20.5	43.5		42.0				
Max Q Clear Time (g_c+I1), s	2.9	10.0		9.8	7.0	15.6		7.0				
Green Ext Time (p_c), s	0.0	5.5		0.4	0.2	7.3		0.8				

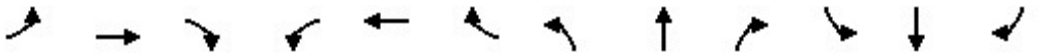
Intersection Summary			
HCM 6th Ctrl Delay		13.8	
HCM 6th LOS		B	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	7	5	223	50	12	754	122	192	890
Future Volume (vph)	7	5	223	50	12	754	122	192	890
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	52.0	52.0	52.0	52.0	15.0	43.0	43.0	25.0	53.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	12.5%	35.8%	35.8%	20.8%	44.2%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		34.4		34.4	10.6	29.4	29.4	16.5	46.1
Actuated g/C Ratio		0.36		0.36	0.11	0.30	0.30	0.17	0.48
v/c Ratio		0.03		0.86	0.07	0.77	0.24	0.74	0.62
Control Delay		19.1		46.1	50.0	38.0	10.9	59.1	24.0
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		19.1		46.1	50.0	38.0	10.9	59.1	24.0
LOS		B		D	D	D	B	E	C
Approach Delay		19.1		46.1		34.4			30.0
Approach LOS		B		D		C			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 96.9	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.86	
Intersection Signal Delay: 34.3	Intersection LOS: C
Intersection Capacity Utilization 81.2%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	5	4	223	50	149	12	754	122	192	890	55
Future Volume (veh/h)	7	5	4	223	50	149	12	754	122	192	890	55
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	7	5	2	237	53	135	13	802	115	204	947	43
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	271	182	63	337	64	151	51	1058	472	243	1424	65
Arrive On Green	0.33	0.33	0.33	0.33	0.33	0.33	0.03	0.31	0.31	0.15	0.43	0.43
Sat Flow, veh/h	601	558	193	797	197	462	1619	3420	1525	1619	3331	151
Grp Volume(v), veh/h	14	0	0	425	0	0	13	802	115	204	486	504
Grp Sat Flow(s),veh/h/ln	1352	0	0	1456	0	0	1619	1710	1525	1619	1710	1773
Q Serve(g_s), s	0.0	0.0	0.0	19.6	0.0	0.0	0.6	15.3	4.1	8.8	16.4	16.4
Cycle Q Clear(g_c), s	0.4	0.0	0.0	20.0	0.0	0.0	0.6	15.3	4.1	8.8	16.4	16.4
Prop In Lane	0.50		0.14	0.56		0.32	1.00		1.00	1.00		0.09
Lane Grp Cap(c), veh/h	515	0	0	552	0	0	51	1058	472	243	731	758
V/C Ratio(X)	0.03	0.00	0.00	0.77	0.00	0.00	0.25	0.76	0.24	0.84	0.66	0.66
Avail Cap(c_a), veh/h	964	0	0	1026	0	0	236	1756	783	460	1115	1156
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	16.5	0.0	0.0	23.1	0.0	0.0	34.1	22.5	18.6	29.8	16.5	16.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.9	0.0	0.0	0.9	1.1	0.3	3.0	1.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	6.0	0.0	0.0	0.2	5.3	1.3	3.2	5.3	5.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	16.5	0.0	0.0	24.0	0.0	0.0	35.0	23.6	18.9	32.8	17.5	17.5
LnGrp LOS	B	A	A	C	A	A	D	C	B	C	B	B
Approach Vol, veh/h		14			425			930			1194	
Approach Delay, s/veh		16.5			24.0			23.2			20.1	
Approach LOS		B			C			C			C	

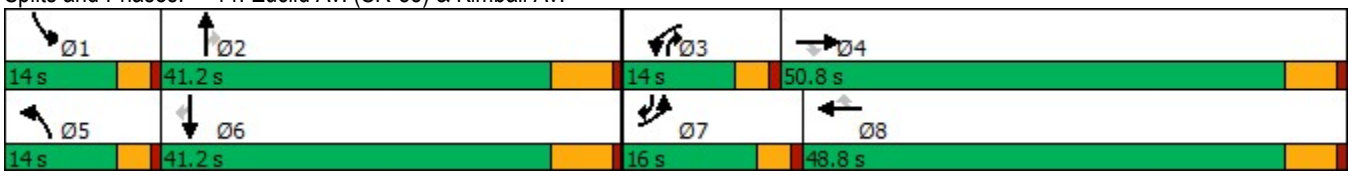
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.3	28.3		28.5	6.8	36.8		28.5				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	20.5	37.0		47.0	10.5	47.0		47.0				
Max Q Clear Time (g_c+I1), s	10.8	17.3		2.4	2.6	18.4		22.0				
Green Ext Time (p_c), s	0.2	5.0		0.0	0.0	5.9		1.4				

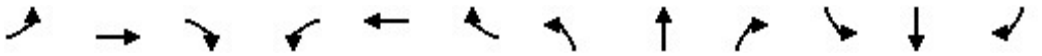
Intersection Summary												
HCM 6th Ctrl Delay			21.9									
HCM 6th LOS			C									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	127	246	45	90	944	290	43	478	27	139	566	373
Future Volume (vph)	127	246	45	90	944	290	43	478	27	139	566	373
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	47.8	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	16.0	50.8	50.8	14.0	48.8	48.8	14.0	41.2	14.0	14.0	41.2	16.0
Total Split (%)	13.3%	42.3%	42.3%	11.7%	40.7%	40.7%	11.7%	34.3%	11.7%	11.7%	34.3%	13.3%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	4.8	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	5.8	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	10.8	33.9	33.9	10.3	33.5	33.5	10.3	23.1	40.1	8.7	28.4	41.8
Actuated g/C Ratio	0.11	0.35	0.35	0.11	0.35	0.35	0.11	0.24	0.41	0.09	0.29	0.43
v/c Ratio	0.40	0.21	0.08	0.54	0.82	0.41	0.26	0.61	0.04	0.54	0.58	0.53
Control Delay	48.7	23.2	0.2	59.5	36.4	4.8	50.7	37.0	0.5	54.3	34.5	16.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.7	23.2	0.2	59.5	36.4	4.8	50.7	37.0	0.5	54.3	34.5	16.9
LOS	D	C	A	E	D	A	D	D	A	D	C	B
Approach Delay		28.5			31.1			36.3			30.9	
Approach LOS		C			C			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 97	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.82	
Intersection Signal Delay: 31.6	Intersection LOS: C
Intersection Capacity Utilization 77.6%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	127	246	45	90	944	290	43	478	27	139	566	373
Future Volume (veh/h)	127	246	45	90	944	290	43	478	27	139	566	373
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	131	254	36	93	973	121	44	493	14	143	584	334
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	312	1158	517	161	1136	507	119	928	565	202	909	562
Arrive On Green	0.11	0.34	0.34	0.10	0.33	0.33	0.07	0.27	0.27	0.07	0.27	0.27
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	131	254	36	93	973	121	44	493	14	143	584	334
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	3.8	4.8	1.5	5.0	24.2	5.2	2.4	11.2	0.5	4.3	13.8	16.3
Cycle Q Clear(g_c), s	3.8	4.8	1.5	5.0	24.2	5.2	2.4	11.2	0.5	4.3	13.8	16.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	312	1158	517	161	1136	507	119	928	565	202	909	562
V/C Ratio(X)	0.42	0.22	0.07	0.58	0.86	0.24	0.37	0.53	0.02	0.71	0.64	0.59
Avail Cap(c_a), veh/h	389	1687	752	177	1612	719	177	1301	732	324	1301	734
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.2	21.5	20.4	39.3	28.4	22.1	40.2	28.3	18.2	41.6	29.6	23.1
Incr Delay (d2), s/veh	0.3	0.1	0.1	1.9	2.5	0.1	0.7	0.7	0.0	1.7	1.1	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	1.8	0.5	2.0	9.5	1.8	0.9	4.2	0.2	1.5	5.3	5.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	38.5	21.6	20.5	41.2	30.9	22.2	40.9	29.0	18.3	43.3	30.7	24.6
LnGrp LOS	D	C	C	D	C	C	D	C	B	D	C	C
Approach Vol, veh/h		421			1187			551			1061	
Approach Delay, s/veh		26.8			30.8			29.7			30.5	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.2	31.3	13.1	36.7	10.7	30.8	13.6	36.1
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	10.0	34.7	10.0	45.0	10.0	34.7	12.0	43.0
Max Q Clear Time (g_c+I1), s	6.3	13.2	7.0	6.8	4.4	18.3	5.8	26.2
Green Ext Time (p_c), s	0.1	3.9	0.0	1.6	0.0	5.9	0.1	4.1

Intersection Summary	
HCM 6th Ctrl Delay	30.0
HCM 6th LOS	C

Intersection	
Intersection Delay, s/veh	11.5
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	17	93	9	17	299	16	17	100	14	17	109	47
Future Vol, veh/h	17	93	9	17	299	16	17	100	14	17	109	47
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	19	102	10	19	329	18	19	110	15	19	120	52
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.7	13.2	10.1	10.4
HCM LOS	A	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	14%	5%	10%
Vol Thru, %	76%	78%	90%	63%
Vol Right, %	11%	8%	5%	27%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	131	119	332	173
LT Vol	17	17	17	17
Through Vol	100	93	299	109
RT Vol	14	9	16	47
Lane Flow Rate	144	131	365	190
Geometry Grp	1	1	1	1
Degree of Util (X)	0.219	0.194	0.51	0.28
Departure Headway (Hd)	5.476	5.344	5.032	5.298
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	655	671	722	677
Service Time	3.519	3.384	3.032	3.336
HCM Lane V/C Ratio	0.22	0.195	0.506	0.281
HCM Control Delay	10.1	9.7	13.2	10.4
HCM Lane LOS	B	A	B	B
HCM 95th-tile Q	0.8	0.7	2.9	1.1

Intersection	
Intersection Delay, s/veh	21.2
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	38	243	16	7	429	30	11	80	5	10	79	34
Future Vol, veh/h	38	243	16	7	429	30	11	80	5	10	79	34
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	46	293	19	8	517	36	13	96	6	12	95	41
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	16	29	11.7	12
HCM LOS	C	D	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	11%	13%	2%	8%
Vol Thru, %	83%	82%	92%	64%
Vol Right, %	5%	5%	6%	28%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	96	297	466	123
LT Vol	11	38	7	10
Through Vol	80	243	429	79
RT Vol	5	16	30	34
Lane Flow Rate	116	358	561	148
Geometry Grp	1	1	1	1
Degree of Util (X)	0.218	0.569	0.828	0.27
Departure Headway (Hd)	6.789	5.722	5.309	6.55
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	530	633	674	550
Service Time	4.816	3.722	3.407	4.572
HCM Lane V/C Ratio	0.219	0.566	0.832	0.269
HCM Control Delay	11.7	16	29	12
HCM Lane LOS	B	C	D	B
HCM 95th-tile Q	0.8	3.6	8.9	1.1

Intersection	
Intersection Delay, s/veh	16.3
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	38	79	23	30	240	53	36	302	9	31	196	47
Future Vol, veh/h	38	79	23	30	240	53	36	302	9	31	196	47
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	40	82	24	31	250	55	38	315	9	32	204	49
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	12.2	17.2	18.1	14.9
HCM LOS	B	C	C	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	10%	27%	9%	11%
Vol Thru, %	87%	56%	74%	72%
Vol Right, %	3%	16%	16%	17%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	347	140	323	274
LT Vol	36	38	30	31
Through Vol	302	79	240	196
RT Vol	9	23	53	47
Lane Flow Rate	361	146	336	285
Geometry Grp	1	1	1	1
Degree of Util (X)	0.608	0.269	0.574	0.486
Departure Headway (Hd)	6.058	6.647	6.139	6.132
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	596	538	585	585
Service Time	4.106	4.709	4.187	4.184
HCM Lane V/C Ratio	0.606	0.271	0.574	0.487
HCM Control Delay	18.1	12.2	17.2	14.9
HCM Lane LOS	C	B	C	B
HCM 95th-tile Q	4.1	1.1	3.6	2.6

Intersection	
Intersection Delay, s/veh	39
Intersection LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	55	215	18	29	386	59	36	216	6	40	189	38
Future Vol, veh/h	55	215	18	29	386	59	36	216	6	40	189	38
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	59	229	19	31	411	63	38	230	6	43	201	40
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	24.3	65.7	22.7	23.1
HCM LOS	C	F	C	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	14%	19%	6%	15%
Vol Thru, %	84%	75%	81%	71%
Vol Right, %	2%	6%	12%	14%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	258	288	474	267
LT Vol	36	55	29	40
Through Vol	216	215	386	189
RT Vol	6	18	59	38
Lane Flow Rate	274	306	504	284
Geometry Grp	1	1	1	1
Degree of Util (X)	0.607	0.654	0.996	0.62
Departure Headway (Hd)	7.962	7.685	7.111	7.862
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	450	469	514	457
Service Time	6.048	5.767	5.111	5.948
HCM Lane V/C Ratio	0.609	0.652	0.981	0.621
HCM Control Delay	22.7	24.3	65.7	23.1
HCM Lane LOS	C	C	F	C
HCM 95th-tile Q	3.9	4.6	13.6	4.1

Intersection	
Intersection Delay, s/veh	29.2
Intersection LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	30	205	1	65	431	102	11	98	41	64	57	39
Future Vol, veh/h	30	205	1	65	431	102	11	98	41	64	57	39
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	31	214	1	68	449	106	11	102	43	67	59	41
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

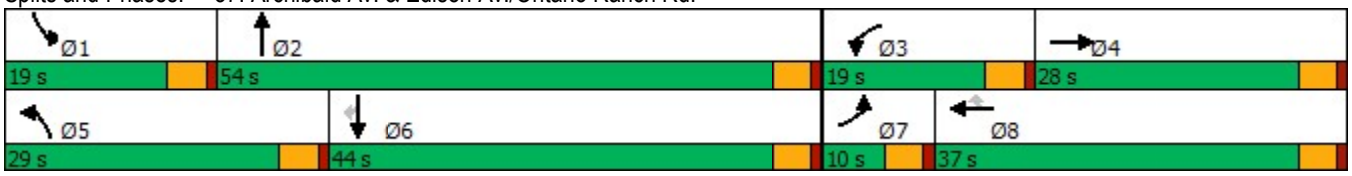
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	13.4	44.1	12.4	12.7
HCM LOS	B	E	B	B

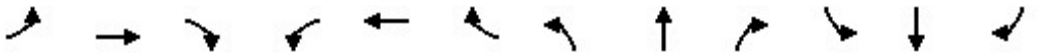
Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	7%	13%	11%	40%
Vol Thru, %	65%	87%	72%	36%
Vol Right, %	27%	0%	17%	24%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	150	236	598	160
LT Vol	11	30	65	64
Through Vol	98	205	431	57
RT Vol	41	1	102	39
Lane Flow Rate	156	246	623	167
Geometry Grp	1	1	1	1
Degree of Util (X)	0.287	0.416	0.937	0.309
Departure Headway (Hd)	6.623	6.085	5.415	6.672
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	541	590	673	537
Service Time	4.685	4.134	3.415	4.73
HCM Lane V/C Ratio	0.288	0.417	0.926	0.311
HCM Control Delay	12.4	13.4	44.1	12.7
HCM Lane LOS	B	B	E	B
HCM 95th-tile Q	1.2	2	12.9	1.3

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	35	129	65	242	312	106	167	1045	280	90	499	62
Future Volume (vph)	35	129	65	242	312	106	167	1045	280	90	499	62
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	44.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	36.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	6.0	14.2	93.1	13.2	27.3	27.3	16.8	38.6	93.1	11.3	29.3	29.3
Actuated g/C Ratio	0.06	0.15	1.00	0.14	0.29	0.29	0.18	0.41	1.00	0.12	0.31	0.31
v/c Ratio	0.19	0.26	0.05	0.62	0.65	0.22	0.63	0.77	0.20	0.51	0.48	0.12
Control Delay	53.3	39.2	0.1	49.3	40.2	5.1	50.0	29.6	0.3	54.6	28.1	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.3	39.2	0.1	49.3	40.2	5.1	50.0	29.6	0.3	54.6	28.1	0.4
LOS	D	D	A	D	D	A	D	C	A	D	C	A
Approach Delay		30.3			37.9			26.4			29.1	
Approach LOS		C			D			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 93.1	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.77	
Intersection Signal Delay: 29.8	Intersection LOS: C
Intersection Capacity Utilization 72.6%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	35	129	65	242	312	106	167	1045	280	90	499	62
Future Volume (veh/h)	35	129	65	242	312	106	167	1045	280	90	499	62
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	38	142	0	266	343	93	184	1148	0	99	548	57
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	111	549		356	419	350	225	1481		125	1257	521
Arrive On Green	0.04	0.15	0.00	0.12	0.23	0.23	0.14	0.41	0.00	0.08	0.35	0.35
Sat Flow, veh/h	3048	3600	1525	3048	1800	1506	1619	3600	1525	1619	3600	1492
Grp Volume(v), veh/h	38	142	0	266	343	93	184	1148	0	99	548	57
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1506	1619	1800	1525	1619	1800	1492
Q Serve(g_s), s	0.9	2.6	0.0	6.3	13.4	3.8	8.2	20.5	0.0	4.5	8.7	1.9
Cycle Q Clear(g_c), s	0.9	2.6	0.0	6.3	13.4	3.8	8.2	20.5	0.0	4.5	8.7	1.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	111	549		356	419	350	225	1481		125	1257	521
V/C Ratio(X)	0.34	0.26		0.75	0.82	0.27	0.82	0.78		0.79	0.44	0.11
Avail Cap(c_a), veh/h	226	1139		595	788	659	534	2399		316	1914	793
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.9	27.8	0.0	31.7	27.0	23.3	31.1	18.9	0.0	33.7	18.6	16.4
Incr Delay (d2), s/veh	1.8	0.2	0.0	3.1	4.0	0.4	7.1	0.9	0.0	10.7	0.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	1.0	0.0	2.3	5.6	1.2	3.3	7.0	0.0	2.0	3.1	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.7	28.0	0.0	34.9	31.0	23.7	38.1	19.8	0.0	44.4	18.8	16.4
LnGrp LOS	D	C		C	C	C	D	B		D	B	B
Approach Vol, veh/h		180	A		702			1332	A		704	
Approach Delay, s/veh		29.9			31.5			22.3			22.2	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.2	35.1	13.2	15.8	14.8	30.4	7.2	21.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	6.5	22.5	8.3	4.6	10.2	10.7	2.9	15.4
Green Ext Time (p_c), s	0.1	8.1	0.4	0.6	0.4	3.4	0.0	1.9

Intersection Summary	
HCM 6th Ctrl Delay	25.0
HCM 6th LOS	C

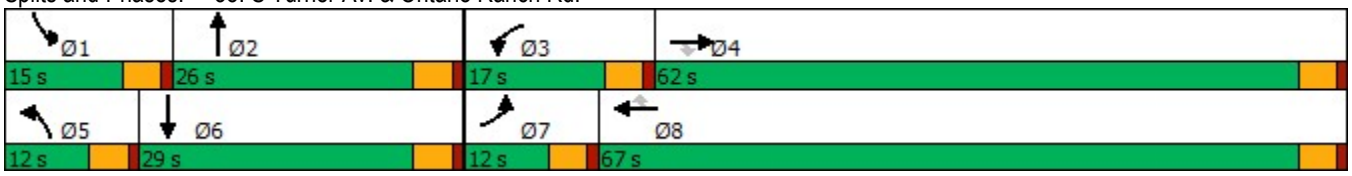
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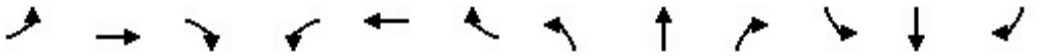
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	32	471	15	52	686	24	34	129	53	64
Future Volume (vph)	32	471	15	52	686	24	34	129	53	64
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	26.0	15.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	21.7%	12.5%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.7	19.2	19.2	8.6	22.1	22.1	7.7	12.6	8.6	13.3
Actuated g/C Ratio	0.14	0.35	0.35	0.16	0.40	0.40	0.14	0.23	0.16	0.24
v/c Ratio	0.14	0.42	0.03	0.21	0.53	0.04	0.15	0.42	0.21	0.20
Control Delay	32.5	18.4	0.1	30.8	16.8	0.1	32.6	26.3	30.8	21.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	32.5	18.4	0.1	30.8	16.8	0.1	32.6	26.3	30.8	21.5
LOS	C	B	A	C	B	A	C	C	C	C
Approach Delay		18.7			17.2			27.4		25.1
Approach LOS		B			B			C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 55.3	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.53	
Intersection Signal Delay: 19.6	Intersection LOS: B
Intersection Capacity Utilization 51.2%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	32	471	15	52	686	24	34	129	34	53	64	19
Future Volume (veh/h)	32	471	15	52	686	24	34	129	34	53	64	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	36	523	17	58	762	27	38	143	38	59	71	21
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	73	1187	529	104	1248	557	76	222	59	105	239	71
Arrive On Green	0.04	0.33	0.33	0.06	0.35	0.35	0.04	0.15	0.15	0.06	0.17	0.17
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	1446	384	1810	1408	417
Grp Volume(v), veh/h	36	523	17	58	762	27	38	0	181	59	0	92
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1831	1810	0	1825
Q Serve(g_s), s	0.9	5.1	0.3	1.4	7.8	0.5	0.9	0.0	4.2	1.4	0.0	2.0
Cycle Q Clear(g_c), s	0.9	5.1	0.3	1.4	7.8	0.5	0.9	0.0	4.2	1.4	0.0	2.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.21	1.00		0.23
Lane Grp Cap(c), veh/h	73	1187	529	104	1248	557	76	0	281	105	0	310
V/C Ratio(X)	0.49	0.44	0.03	0.56	0.61	0.05	0.50	0.00	0.64	0.56	0.00	0.30
Avail Cap(c_a), veh/h	303	4638	2069	505	5042	2249	303	0	880	425	0	999
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	21.0	11.8	10.2	20.5	12.1	9.7	21.0	0.0	17.8	20.5	0.0	16.2
Incr Delay (d2), s/veh	5.1	0.3	0.0	4.6	0.5	0.0	5.0	0.0	2.5	4.6	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.5	0.1	0.6	2.3	0.1	0.4	0.0	1.6	0.6	0.0	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.1	12.1	10.2	25.2	12.6	9.8	26.0	0.0	20.2	25.2	0.0	16.8
LnGrp LOS	C	B	B	C	B	A	C	A	C	C	A	B
Approach Vol, veh/h		576			847			219			151	
Approach Delay, s/veh		12.9			13.4			21.2			20.0	
Approach LOS		B			B			C			C	

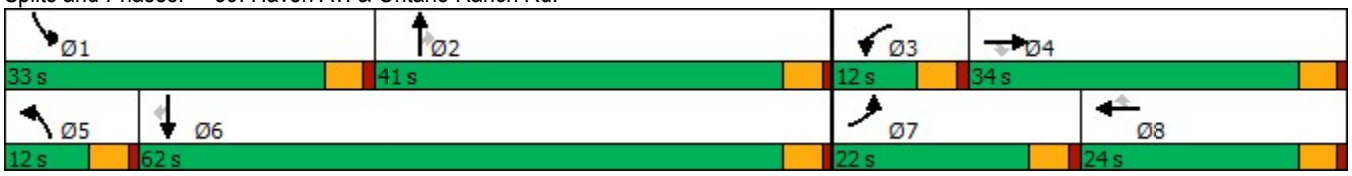
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.1	11.4	7.1	19.2	6.4	12.1	6.3	20.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	10.5	21.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	3.4	6.2	3.4	7.1	2.9	4.0	2.9	9.8
Green Ext Time (p_c), s	0.0	0.7	0.1	3.5	0.0	0.3	0.0	5.6

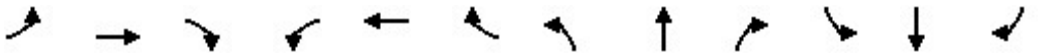
Intersection Summary	
HCM 6th Ctrl Delay	14.7
HCM 6th LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	113	552	17	74	512	151	36	288	113	195	184	52
Future Volume (vph)	113	552	17	74	512	151	36	288	113	195	184	52
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	22.0	34.0	34.0	12.0	24.0	24.0	12.0	41.0	41.0	33.0	62.0	62.0
Total Split (%)	18.3%	28.3%	28.3%	10.0%	20.0%	20.0%	10.0%	34.2%	34.2%	27.5%	51.7%	51.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	12.1	22.2	22.2	7.3	14.4	14.4	7.2	20.8	20.8	17.1	36.3	36.3
Actuated g/C Ratio	0.14	0.27	0.27	0.09	0.17	0.17	0.09	0.25	0.25	0.20	0.43	0.43
v/c Ratio	0.52	0.45	0.04	0.31	0.52	0.40	0.28	0.69	0.24	0.64	0.25	0.08
Control Delay	46.5	29.7	0.1	46.1	35.5	8.2	49.4	39.2	2.4	42.7	18.2	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	46.5	29.7	0.1	46.1	35.5	8.2	49.4	39.2	2.4	42.7	18.2	0.2
LOS	D	C	A	D	D	A	D	D	A	D	B	A
Approach Delay		31.7			31.0			30.5			27.1	
Approach LOS		C			C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 83.5	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.69	
Intersection Signal Delay: 30.4	Intersection LOS: C
Intersection Capacity Utilization 58.6%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	113	552	17	74	512	151	36	288	113	195	184	52
Future Volume (veh/h)	113	552	17	74	512	151	36	288	113	195	184	52
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	122	594	7	80	551	110	39	310	71	210	198	33
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	155	1034	321	190	1106	273	66	421	357	265	642	542
Arrive On Green	0.10	0.21	0.21	0.06	0.18	0.18	0.04	0.23	0.23	0.16	0.36	0.36
Sat Flow, veh/h	1619	4914	1523	2956	6192	1525	1619	1800	1523	1619	1800	1519
Grp Volume(v), veh/h	122	594	7	80	551	110	39	310	71	210	198	33
Grp Sat Flow(s),veh/h/ln	1619	1638	1523	1478	1548	1525	1619	1800	1523	1619	1800	1519
Q Serve(g_s), s	4.0	6.0	0.2	1.4	4.4	3.5	1.3	8.8	2.1	6.8	4.4	0.8
Cycle Q Clear(g_c), s	4.0	6.0	0.2	1.4	4.4	3.5	1.3	8.8	2.1	6.8	4.4	0.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	155	1034	321	190	1106	273	66	421	357	265	642	542
V/C Ratio(X)	0.79	0.57	0.02	0.42	0.50	0.40	0.59	0.74	0.20	0.79	0.31	0.06
Avail Cap(c_a), veh/h	516	2639	818	404	2198	542	221	1196	1012	840	1884	1590
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.3	19.5	17.2	24.7	20.3	20.0	25.9	19.5	16.9	22.1	12.8	11.6
Incr Delay (d2), s/veh	8.4	0.5	0.0	1.5	0.3	1.0	8.1	2.5	0.3	5.3	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	1.9	0.1	0.5	1.3	1.1	0.6	3.3	0.6	2.6	1.4	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	32.7	20.0	17.2	26.2	20.7	20.9	34.0	22.0	17.2	27.4	13.0	11.7
LnGrp LOS	C	B	B	C	C	C	C	C	B	C	B	B
Approach Vol, veh/h		723			741			420			441	
Approach Delay, s/veh		22.1			21.3			22.3			19.8	
Approach LOS		C			C			C			B	

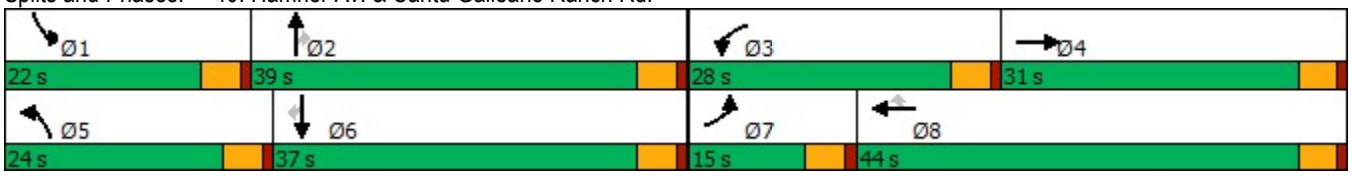
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.5	17.4	8.0	16.1	6.7	24.1	9.8	14.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	36.5	7.5	29.5	7.5	57.5	17.5	19.5
Max Q Clear Time (g_c+I1), s	8.8	10.8	3.4	8.0	3.3	6.4	6.0	6.4
Green Ext Time (p_c), s	0.5	1.9	0.1	3.5	0.0	1.2	0.2	2.9

Intersection Summary	
HCM 6th Ctrl Delay	21.4
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	138	578	240	646	244	156	586	310	169	182	73
Future Volume (vph)	138	578	240	646	244	156	586	310	169	182	73
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	28.0	44.0	44.0	24.0	39.0	39.0	22.0	37.0	37.0
Total Split (%)	12.5%	25.8%	23.3%	36.7%	36.7%	20.0%	32.5%	32.5%	18.3%	30.8%	30.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	8.7	19.1	11.4	21.8	21.8	9.4	17.2	17.2	9.7	17.5	17.5
Actuated g/C Ratio	0.11	0.25	0.15	0.29	0.29	0.12	0.23	0.23	0.13	0.23	0.23
v/c Ratio	0.36	0.41	0.48	0.65	0.39	0.38	0.52	0.53	0.39	0.23	0.16
Control Delay	37.0	24.4	34.9	27.7	5.3	36.1	28.4	7.0	35.9	26.1	1.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	37.0	24.4	34.9	27.7	5.3	36.1	28.4	7.0	35.9	26.1	1.3
LOS	D	C	C	C	A	D	C	A	D	C	A
Approach Delay		26.6		24.4			23.2			25.7	
Approach LOS		C		C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 76	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.65	
Intersection Signal Delay: 24.7	Intersection LOS: C
Intersection Capacity Utilization 53.2%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	138	578	72	240	646	244	156	586	310	169	182	73
Future Volume (veh/h)	138	578	72	240	646	244	156	586	310	169	182	73
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	144	602	19	250	673	188	162	610	240	176	190	35
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	273	1619	51	395	1017	454	280	1277	396	296	905	404
Arrive On Green	0.08	0.25	0.25	0.11	0.28	0.28	0.08	0.25	0.25	0.08	0.25	0.25
Sat Flow, veh/h	3510	6559	206	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	144	449	172	250	673	188	162	610	240	176	190	35
Grp Sat Flow(s),veh/h/ln	1755	1634	1863	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	2.3	4.4	4.5	4.0	9.6	5.5	2.6	5.8	7.7	2.8	2.4	1.0
Cycle Q Clear(g_c), s	2.3	4.4	4.5	4.0	9.6	5.5	2.6	5.8	7.7	2.8	2.4	1.0
Prop In Lane	1.00		0.11	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	273	1210	460	395	1017	454	280	1277	396	296	905	404
V/C Ratio(X)	0.53	0.37	0.37	0.63	0.66	0.41	0.58	0.48	0.61	0.59	0.21	0.09
Avail Cap(c_a), veh/h	635	2237	850	1421	2456	1095	1179	3082	957	1058	2021	901
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.8	18.1	18.1	24.6	18.4	17.0	25.8	18.7	19.4	25.6	17.2	16.7
Incr Delay (d2), s/veh	1.6	0.2	0.5	1.7	0.7	0.6	1.9	0.3	1.5	1.9	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	1.4	1.6	1.5	3.2	1.7	1.0	2.0	2.5	1.1	0.8	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.3	18.3	18.7	26.3	19.2	17.6	27.7	19.0	20.9	27.5	17.3	16.7
LnGrp LOS	C	B	B	C	B	B	C	B	C	C	B	B
Approach Vol, veh/h		765			1111			1012			401	
Approach Delay, s/veh		20.1			20.5			20.8			21.7	
Approach LOS		C			C			C			C	

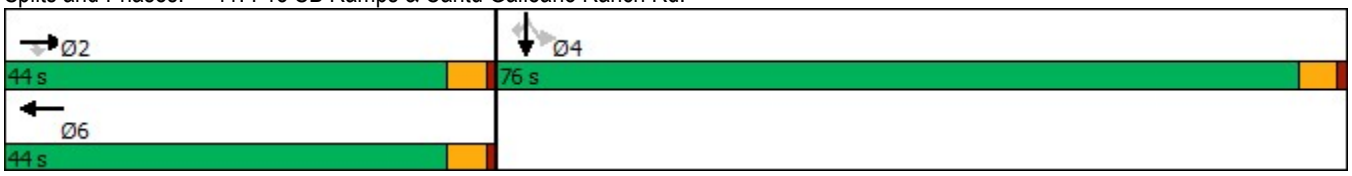
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.4	18.8	11.0	18.8	9.1	19.1	9.0	20.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	34.5	23.5	26.5	19.5	32.5	10.5	39.5
Max Q Clear Time (g_c+I1), s	4.8	9.7	6.0	6.5	4.6	4.4	4.3	11.6
Green Ext Time (p_c), s	0.4	4.6	0.7	3.3	0.4	1.1	0.2	4.8

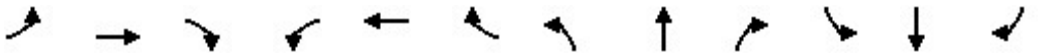
Intersection Summary	
HCM 6th Ctrl Delay	20.7
HCM 6th LOS	C

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	812	308	679	171	266	0	944
Future Volume (vph)	812	308	679	171	266	0	944
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	44.0	44.0	44.0		76.0	76.0	76.0
Total Split (%)	36.7%	36.7%	36.7%		63.3%	63.3%	63.3%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	21.1	21.1	21.1	64.4	33.4	33.4	33.4
Actuated g/C Ratio	0.33	0.33	0.33	1.00	0.52	0.52	0.52
v/c Ratio	0.53	0.45	0.63	0.07	0.30	0.68	0.65
Control Delay	20.4	4.9	23.0	0.0	10.0	15.5	14.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	20.4	4.9	23.0	0.0	10.0	15.5	14.3
LOS	C	A	C	A	A	B	B
Approach Delay	16.1		18.3			13.9	
Approach LOS	B		B			B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 64.4	
Natural Cycle: 50	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.68	
Intersection Signal Delay: 15.9	Intersection LOS: B
Intersection Capacity Utilization 65.2%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	812	308	0	679	171	0	0	0	266	0	944
Future Volume (veh/h)	0	812	308	0	679	171	0	0	0	266	0	944
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	892	0	0	746	0				195	0	819
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1858		0	1293					703	0	1252
Arrive On Green	0.00	0.36	0.00	0.00	0.36	0.00				0.39	0.00	0.39
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	892	0	0	746	0				195	0	819
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	4.7	0.0	0.0	5.9	0.0				2.6	0.0	7.4
Cycle Q Clear(g_c), s	0.0	4.7	0.0	0.0	5.9	0.0				2.6	0.0	7.4
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1858		0	1293					703	0	1252
V/C Ratio(X)	0.00	0.48		0.00	0.58					0.28	0.00	0.65
Avail Cap(c_a), veh/h	0	5765		0	4012					3640	0	6479
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	8.8	0.0	0.0	9.2	0.0				7.4	0.0	8.9
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.4	0.0				0.2	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	0.9	0.0	0.0	1.2	0.0				0.6	0.0	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	9.0	0.0	0.0	9.6	0.0				7.7	0.0	9.5
LnGrp LOS	A	A		A	A					A	A	A
Approach Vol, veh/h		892	A		746	A					1014	
Approach Delay, s/veh		9.0			9.6						9.1	
Approach LOS		A			A						A	

Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		17.2		18.3		17.2						
Change Period (Y+Rc), s		4.5		4.5		4.5						
Max Green Setting (Gmax), s		39.5		71.5		39.5						
Max Q Clear Time (g_c+I1), s		6.7		9.4		7.9						
Green Ext Time (p_c), s		6.0		4.4		4.8						

Intersection Summary	
HCM 6th Ctrl Delay	9.2
HCM 6th LOS	A

Notes

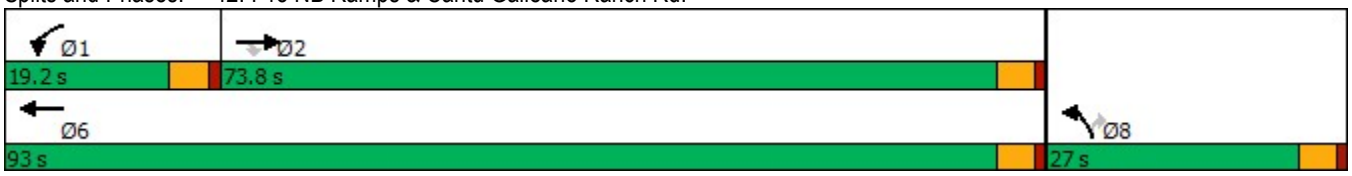
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	399	679	194	402	448	377
Future Volume (vph)	399	679	194	402	448	377
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	73.8	73.8	19.2	93.0	27.0	27.0
Total Split (%)	61.5%	61.5%	16.0%	77.5%	22.5%	22.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	13.9	13.9	8.8	27.4	15.4	15.4
Actuated g/C Ratio	0.27	0.27	0.17	0.53	0.30	0.30
v/c Ratio	0.29	0.74	0.34	0.15	0.56	0.43
Control Delay	16.1	7.2	23.3	6.7	18.0	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	16.1	7.2	23.3	6.7	18.0	5.2
LOS	B	A	C	A	B	A
Approach Delay	10.5			12.1	13.9	
Approach LOS	B			B	B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 52.1	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.74	
Intersection Signal Delay: 12.0	Intersection LOS: B
Intersection Capacity Utilization 55.1%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	399	679	194	402	448	377
Future Volume (veh/h)	399	679	194	402	448	377
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	407	430	198	410	521	263
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	1892	587	350	2915	880	392
Arrive On Green	0.36	0.36	0.10	0.56	0.24	0.24
Sat Flow, veh/h	5358	1610	3510	5358	3619	1610
Grp Volume(v), veh/h	407	430	198	410	521	263
Grp Sat Flow(s),veh/h/ln	1729	1610	1755	1729	1810	1610
Q Serve(g_s), s	2.5	10.7	2.5	1.7	5.9	6.8
Cycle Q Clear(g_c), s	2.5	10.7	2.5	1.7	5.9	6.8
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1892	587	350	2915	880	392
V/C Ratio(X)	0.22	0.73	0.57	0.14	0.59	0.67
Avail Cap(c_a), veh/h	7782	2416	1117	9938	1763	784
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.1	12.7	19.8	4.8	15.5	15.8
Incr Delay (d2), s/veh	0.1	1.8	1.4	0.0	0.6	2.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	2.7	0.9	0.2	2.0	2.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	10.2	14.5	21.3	4.8	16.1	17.8
LnGrp LOS	B	B	C	A	B	B
Approach Vol, veh/h	837			608	784	
Approach Delay, s/veh	12.4			10.2	16.7	
Approach LOS	B			B	B	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	9.1	21.3				30.5	15.7
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	14.7	69.3				88.5	22.5
Max Q Clear Time (g_c+I1), s	4.5	12.7				3.7	8.8
Green Ext Time (p_c), s	0.4	4.2				2.6	2.4

Intersection Summary			
HCM 6th Ctrl Delay		13.3	
HCM 6th LOS		B	

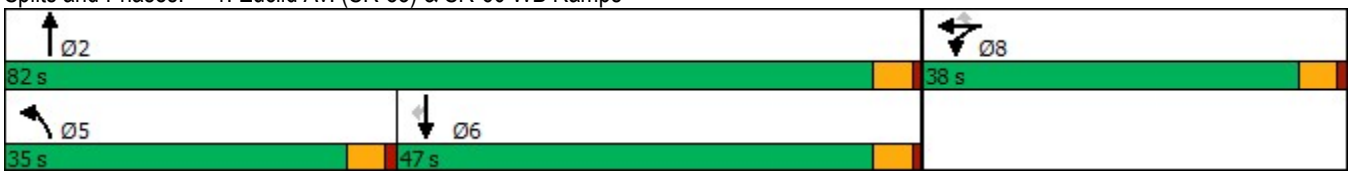
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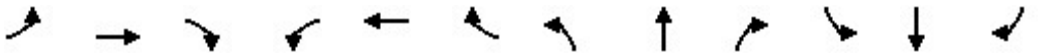
User approved volume balancing among the lanes for turning movement.

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	614	6	347	305	860	834	438
Future Volume (vph)	614	6	347	305	860	834	438
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	38.0	38.0	38.0	35.0	82.0	47.0	47.0
Total Split (%)	31.7%	31.7%	31.7%	29.2%	68.3%	39.2%	39.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	Min	Min	Min
Act Effct Green (s)	26.2	26.2	26.2	22.1	59.4	32.6	32.6
Actuated g/C Ratio	0.28	0.28	0.28	0.23	0.62	0.34	0.34
v/c Ratio	0.73	0.75	0.55	0.74	0.39	0.69	0.53
Control Delay	43.9	44.6	17.3	48.2	9.7	31.5	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Total Delay	43.9	44.6	17.3	48.2	9.8	31.5	5.1
LOS	D	D	B	D	A	C	A
Approach Delay		36.0			19.8	22.4	
Approach LOS		D			B	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 95.2	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.75	
Intersection Signal Delay: 25.4	Intersection LOS: C
Intersection Capacity Utilization 76.0%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	614	6	347	305	860	0	0	834	438
Future Volume (veh/h)	0	0	0	614	6	347	305	860	0	0	834	438
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				694	0	139	311	878	0	0	851	257
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				909	0	404	373	2217	0	0	1230	549
Arrive On Green				0.25	0.00	0.25	0.21	0.61	0.00	0.00	0.34	0.34
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				694	0	139	311	878	0	0	851	257
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				11.9	0.0	4.7	11.0	8.3	0.0	0.0	13.6	8.4
Cycle Q Clear(g_c), s				11.9	0.0	4.7	11.0	8.3	0.0	0.0	13.6	8.4
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				909	0	404	373	2217	0	0	1230	549
V/C Ratio(X)				0.76	0.00	0.34	0.83	0.40	0.00	0.00	0.69	0.47
Avail Cap(c_a), veh/h				1814	0	807	826	4185	0	0	2295	1024
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				23.2	0.0	20.5	25.4	6.6	0.0	0.0	19.0	17.3
Incr Delay (d2), s/veh				1.4	0.0	0.5	4.9	0.1	0.0	0.0	0.7	0.6
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				4.6	0.0	1.6	4.8	2.2	0.0	0.0	5.1	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				24.6	0.0	21.0	30.3	6.7	0.0	0.0	19.7	17.9
LnGrp LOS				C	A	C	C	A	A	A	B	B
Approach Vol, veh/h					833			1189			1108	
Approach Delay, s/veh					24.0			12.9			19.3	
Approach LOS					C			B			B	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	45.6		18.3	27.3		21.3						
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5						
Max Green Setting (Gmax), s	77.5		30.5	42.5		33.5						
Max Q Clear Time (g_c+I1), s	10.3		13.0	15.6		13.9						
Green Ext Time (p_c), s	7.1		0.8	7.2		2.9						

Intersection Summary		
HCM 6th Ctrl Delay	18.1	
HCM 6th LOS	B	

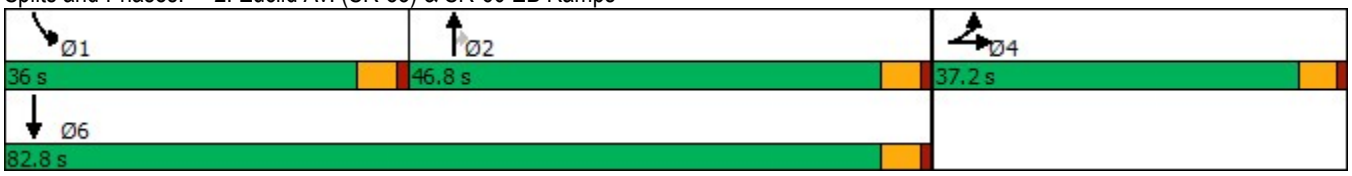
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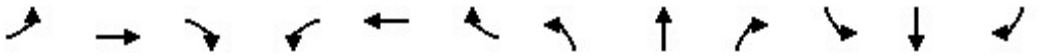
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	276	5	889	463	337	1111
Future Volume (vph)	276	5	889	463	337	1111
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	Min	Min	None	Min
Act Effct Green (s)	20.8	20.8	33.9	33.9	23.6	62.3
Actuated g/C Ratio	0.22	0.22	0.37	0.37	0.25	0.67
v/c Ratio	0.67	0.68	0.70	0.55	0.76	0.48
Control Delay	44.4	31.4	29.9	5.0	46.4	8.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.2
Total Delay	44.4	31.4	29.9	5.0	46.4	8.7
LOS	D	C	C	A	D	A
Approach Delay		37.5	21.4			17.5
Approach LOS		D	C			B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 92.7	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.76	
Intersection Signal Delay: 22.2	Intersection LOS: C
Intersection Capacity Utilization 76.0%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	276	5	250	0	0	0	0	889	463	337	1111	0
Future Volume (veh/h)	276	5	250	0	0	0	0	889	463	337	1111	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	240	73	186				0	926	355	351	1157	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	370	97	247				0	1332	579	413	2395	0
Arrive On Green	0.20	0.20	0.20				0.00	0.37	0.37	0.23	0.66	0.00
Sat Flow, veh/h	1810	474	1208				0	3705	1568	1810	3705	0
Grp Volume(v), veh/h	240	0	259				0	926	355	351	1157	0
Grp Sat Flow(s),veh/h/ln	1810	0	1683				0	1805	1568	1810	1805	0
Q Serve(g_s), s	8.3	0.0	9.9				0.0	14.8	12.6	12.7	10.8	0.0
Cycle Q Clear(g_c), s	8.3	0.0	9.9				0.0	14.8	12.6	12.7	10.8	0.0
Prop In Lane	1.00		0.72				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	370	0	344				0	1332	579	413	2395	0
V/C Ratio(X)	0.65	0.00	0.75				0.00	0.70	0.61	0.85	0.48	0.00
Avail Cap(c_a), veh/h	868	0	807				0	2240	973	836	4147	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	24.9	0.0	25.5				0.0	18.3	17.5	25.2	5.7	0.0
Incr Delay (d2), s/veh	1.9	0.0	3.3				0.0	0.7	1.1	4.9	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.4	0.0	3.8				0.0	5.5	4.1	5.5	2.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.8	0.0	28.8				0.0	18.9	18.6	30.1	5.8	0.0
LnGrp LOS	C	A	C				A	B	B	C	A	A
Approach Vol, veh/h		499						1281			1508	
Approach Delay, s/veh		27.8						18.8			11.5	
Approach LOS		C						B			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	20.1	29.7		18.4		49.7
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	14.7	16.8		11.9		12.8
Green Ext Time (p_c), s	0.9	8.3		2.1		10.7

Intersection Summary	
HCM 6th Ctrl Delay	16.8
HCM 6th LOS	B

Notes

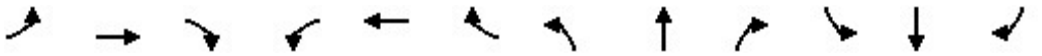
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	115	472	61	218	102	993	67	252	952	118
Future Volume (vph)	115	472	61	218	102	993	67	252	952	118
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	20.0	33.7	17.3	31.0	23.0	51.7	51.7	17.3	46.0	46.0
Total Split (%)	16.7%	28.1%	14.4%	25.8%	19.2%	43.1%	43.1%	14.4%	38.3%	38.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	12.1	24.7	9.2	18.7	11.9	29.7	29.7	12.5	33.7	33.7
Actuated g/C Ratio	0.13	0.27	0.10	0.20	0.13	0.32	0.32	0.14	0.37	0.37
v/c Ratio	0.57	0.72	0.40	0.51	0.51	0.66	0.13	0.66	0.56	0.19
Control Delay	53.4	36.5	51.9	26.2	50.8	29.4	3.0	50.6	27.6	4.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.4	36.5	51.9	26.2	50.8	29.4	3.0	50.6	27.6	4.7
LOS	D	D	D	C	D	C	A	D	C	A
Approach Delay		39.2		30.0		29.7			29.9	
Approach LOS		D		C		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 92	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.72	
Intersection Signal Delay: 31.7	Intersection LOS: C
Intersection Capacity Utilization 66.7%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	115	472	146	61	218	140	102	993	67	252	952	118
Future Volume (veh/h)	115	472	146	61	218	140	102	993	67	252	952	118
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	121	497	123	64	229	106	107	1045	62	265	1002	86
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	152	660	162	82	457	205	136	1622	503	354	1799	558
Arrive On Green	0.09	0.24	0.24	0.05	0.20	0.20	0.08	0.33	0.33	0.12	0.37	0.37
Sat Flow, veh/h	1619	2720	669	1619	2295	1027	1619	4914	1524	2956	4914	1524
Grp Volume(v), veh/h	121	311	309	64	169	166	107	1045	62	265	1002	86
Grp Sat Flow(s),veh/h/ln	1619	1710	1680	1619	1710	1612	1619	1638	1524	1478	1638	1524
Q Serve(g_s), s	5.1	11.8	12.0	2.7	6.1	6.5	4.5	12.7	2.0	6.1	11.4	2.7
Cycle Q Clear(g_c), s	5.1	11.8	12.0	2.7	6.1	6.5	4.5	12.7	2.0	6.1	11.4	2.7
Prop In Lane	1.00		0.40	1.00		0.64	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	152	415	407	82	341	321	136	1622	503	354	1799	558
V/C Ratio(X)	0.79	0.75	0.76	0.78	0.49	0.52	0.79	0.64	0.12	0.75	0.56	0.15
Avail Cap(c_a), veh/h	358	712	699	296	646	609	427	3308	1026	540	2909	902
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.1	24.6	24.6	32.9	24.9	25.1	31.5	20.0	16.4	29.8	17.7	14.9
Incr Delay (d2), s/veh	9.0	2.8	2.9	14.5	1.1	1.3	9.7	0.4	0.1	3.2	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	4.6	4.6	1.3	2.4	2.3	2.0	4.4	0.6	2.2	3.8	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	40.1	27.4	27.5	47.4	26.1	26.4	41.2	20.4	16.5	33.0	18.0	15.1
LnGrp LOS	D	C	C	D	C	C	D	C	B	C	B	B
Approach Vol, veh/h		741			399			1214			1353	
Approach Delay, s/veh		29.5			29.6			22.0			20.7	
Approach LOS		C			C			C			C	

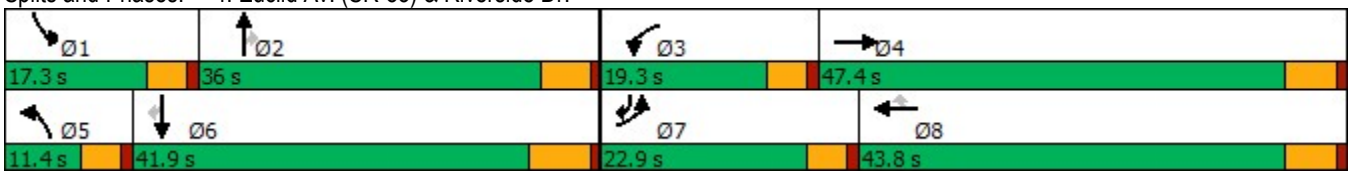
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.9	27.6	8.1	21.5	10.4	30.2	11.1	18.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	12.8	47.2	12.8	29.2	18.5	41.5	15.5	26.5
Max Q Clear Time (g_c+I1), s	8.1	14.7	4.7	14.0	6.5	13.4	7.1	8.5
Green Ext Time (p_c), s	0.4	8.5	0.1	3.0	0.2	7.8	0.2	1.6

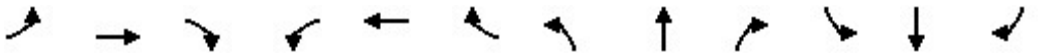
Intersection Summary	
HCM 6th Ctrl Delay	23.9
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	131	467	131	370	68	40	886	145	103	803	154
Future Volume (vph)	131	467	131	370	68	40	886	145	103	803	154
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	22.9	47.4	19.3	43.8	43.8	11.4	36.0	36.0	17.3	41.9	22.9
Total Split (%)	19.1%	39.5%	16.1%	36.5%	36.5%	9.5%	30.0%	30.0%	14.4%	34.9%	19.1%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	13.1	35.5	12.3	34.7	34.7	6.3	31.0	31.0	10.5	38.7	58.4
Actuated g/C Ratio	0.12	0.32	0.11	0.32	0.32	0.06	0.28	0.28	0.10	0.35	0.53
v/c Ratio	0.69	0.90	0.73	0.35	0.12	0.44	0.93	0.27	0.68	0.67	0.18
Control Delay	66.4	55.9	72.7	30.4	0.4	69.1	56.7	6.6	72.4	36.6	3.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	66.4	55.9	72.7	30.4	0.4	69.1	56.7	6.6	72.4	36.6	3.0
LOS	E	E	E	C	A	E	E	A	E	D	A
Approach Delay		58.0		36.5			50.4			35.2	
Approach LOS		E		D			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 110	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.93	
Intersection Signal Delay: 44.7	Intersection LOS: D
Intersection Capacity Utilization 86.4%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	131	467	48	131	370	68	40	886	145	103	803	154
Future Volume (veh/h)	131	467	48	131	370	68	40	886	145	103	803	154
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	132	472	17	132	374	30	40	895	83	104	811	57
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	160	529	19	159	1046	459	55	1005	448	128	1159	667
Arrive On Green	0.10	0.31	0.31	0.10	0.31	0.31	0.03	0.29	0.29	0.08	0.34	0.34
Sat Flow, veh/h	1619	1727	62	1619	3420	1501	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	132	0	489	132	374	30	40	895	83	104	811	57
Grp Sat Flow(s),veh/h/ln	1619	0	1789	1619	1710	1501	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	7.7	0.0	25.2	7.7	8.2	1.4	2.4	24.2	3.9	6.1	19.9	2.1
Cycle Q Clear(g_c), s	7.7	0.0	25.2	7.7	8.2	1.4	2.4	24.2	3.9	6.1	19.9	2.1
Prop In Lane	1.00		0.03	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	160	0	548	159	1046	459	55	1005	448	128	1159	667
V/C Ratio(X)	0.83	0.00	0.89	0.83	0.36	0.07	0.73	0.89	0.19	0.81	0.70	0.09
Avail Cap(c_a), veh/h	306	0	770	246	1344	590	114	1082	483	213	1252	709
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.8	0.0	32.0	42.8	26.1	23.8	46.2	32.7	25.5	43.8	27.7	15.9
Incr Delay (d2), s/veh	4.1	0.0	9.7	7.3	0.2	0.1	6.6	9.0	0.2	4.6	1.6	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	0.0	11.6	3.3	3.2	0.5	1.0	10.3	1.4	2.5	7.9	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.8	0.0	41.7	50.1	26.3	23.8	52.8	41.7	25.7	48.4	29.3	15.9
LnGrp LOS	D	A	D	D	C	C	D	D	C	D	C	B
Approach Vol, veh/h		621			536			1018			972	
Approach Delay, s/veh		42.8			32.1			40.8			30.6	
Approach LOS		D			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.3	34.9	14.1	35.4	7.9	39.3	14.1	35.4
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	12.7	* 31	14.7	41.6	6.8	35.4	18.3	38.0
Max Q Clear Time (g_c+I1), s	8.1	26.2	9.7	27.2	4.4	21.9	9.7	10.2
Green Ext Time (p_c), s	0.0	2.2	0.1	2.4	0.0	4.6	0.1	2.3

Intersection Summary	
HCM 6th Ctrl Delay	36.5
HCM 6th LOS	D

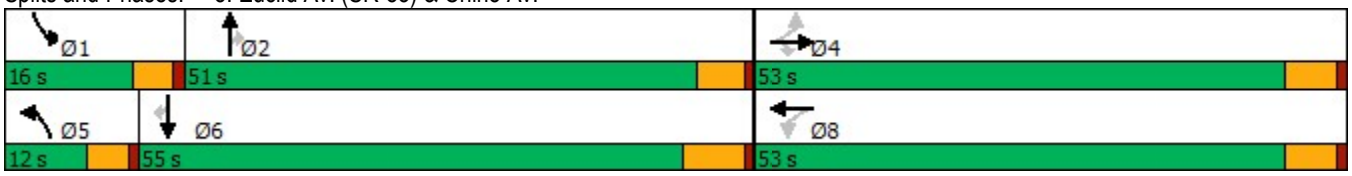
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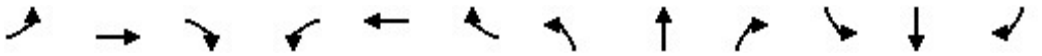
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	74	413	37	72	119	26	965	186	87	822	64
Future Volume (vph)	74	413	37	72	119	26	965	186	87	822	64
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	53.0	53.0	53.0	53.0	53.0	12.0	51.0	51.0	16.0	55.0	55.0
Total Split (%)	44.2%	44.2%	44.2%	44.2%	44.2%	10.0%	42.5%	42.5%	13.3%	45.8%	45.8%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	30.5	30.5	30.5		30.5	6.1	47.7	47.7	9.2	51.4	51.4
Actuated g/C Ratio	0.30	0.30	0.30		0.30	0.06	0.47	0.47	0.09	0.51	0.51
v/c Ratio	0.29	0.78	0.07		1.16	0.28	0.61	0.25	0.61	0.49	0.08
Control Delay	29.6	42.8	1.1		141.3	57.3	24.9	14.3	65.4	20.3	5.3
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.6	42.8	1.1		141.3	57.3	24.9	14.3	65.4	20.3	5.3
LOS	C	D	A		F	E	C	B	E	C	A
Approach Delay		38.0			141.3		24.0			23.3	
Approach LOS		D			F		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 100.7	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.16	
Intersection Signal Delay: 36.4	Intersection LOS: D
Intersection Capacity Utilization 89.2%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	74	413	37	72	119	63	26	965	186	87	822	64
Future Volume (veh/h)	74	413	37	72	119	63	26	965	186	87	822	64
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	76	426	18	74	123	59	27	995	130	90	847	34
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	263	637	539	103	160	66	42	1443	644	111	1590	709
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35	0.03	0.42	0.42	0.07	0.46	0.46
Sat Flow, veh/h	1092	1800	1525	170	453	187	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	76	426	18	256	0	0	27	995	130	90	847	34
Grp Sat Flow(s),veh/h/ln	1092	1800	1525	810	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	21.7	0.8	13.6	0.0	0.0	1.8	25.7	5.8	5.9	19.1	1.3
Cycle Q Clear(g_c), s	12.3	21.7	0.8	35.4	0.0	0.0	1.8	25.7	5.8	5.9	19.1	1.3
Prop In Lane	1.00		1.00	0.29		0.23	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	263	637	539	329	0	0	42	1443	644	111	1590	709
V/C Ratio(X)	0.29	0.67	0.03	0.78	0.00	0.00	0.65	0.69	0.20	0.81	0.53	0.05
Avail Cap(c_a), veh/h	351	783	663	440	0	0	110	1443	644	170	1590	709
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.6	29.7	22.9	36.7	0.0	0.0	52.4	25.6	19.8	49.8	20.6	15.9
Incr Delay (d2), s/veh	0.6	1.6	0.0	6.2	0.0	0.0	6.2	2.7	0.7	8.4	1.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	9.2	0.3	6.9	0.0	0.0	0.8	10.0	2.0	2.6	7.1	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.2	31.3	23.0	42.9	0.0	0.0	58.6	28.3	20.5	58.3	21.9	16.0
LnGrp LOS	C	C	C	D	A	A	E	C	C	E	C	B
Approach Vol, veh/h		520			256			1152			971	
Approach Delay, s/veh		30.4			42.9			28.1			25.1	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.0	52.3		44.2	7.4	57.0		44.2				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 46		47.2	7.4	48.5		47.2				
Max Q Clear Time (g_c+I1), s	7.9	27.7		23.7	3.8	21.1		37.4				
Green Ext Time (p_c), s	0.0	6.3		2.7	0.0	5.6		1.0				

Intersection Summary			
HCM 6th Ctrl Delay		28.8	
HCM 6th LOS		C	

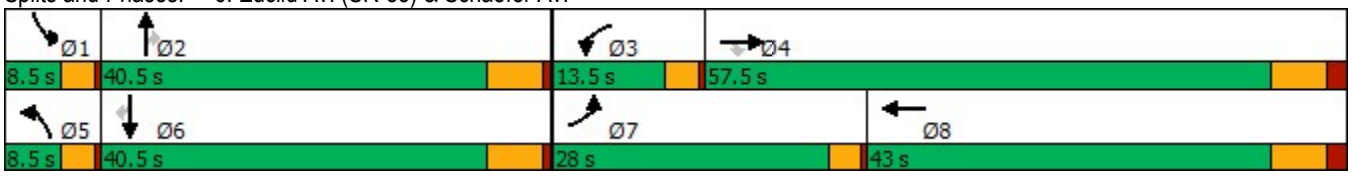
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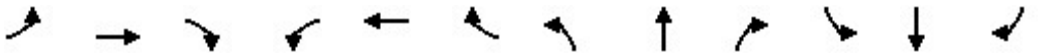
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	227	255	125	40	70	58	846	46	52	809	107
Future Volume (vph)	227	255	125	40	70	58	846	46	52	809	107
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	28.0	57.5	57.5	13.5	43.0	8.5	40.5	40.5	8.5	40.5	40.5
Total Split (%)	23.3%	47.9%	47.9%	11.3%	35.8%	7.1%	33.8%	33.8%	7.1%	33.8%	33.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	16.8	26.2	26.2	10.6	12.9	5.3	30.5	30.5	5.3	28.1	28.1
Actuated g/C Ratio	0.20	0.31	0.31	0.13	0.15	0.06	0.36	0.36	0.06	0.33	0.33
v/c Ratio	0.73	0.47	0.23	0.20	0.42	0.59	0.70	0.07	0.53	0.73	0.19
Control Delay	48.5	28.4	5.4	44.3	31.0	69.6	29.8	0.2	65.3	31.1	4.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.5	28.4	5.4	44.3	31.0	69.6	29.8	0.2	65.3	31.1	4.4
LOS	D	C	A	D	C	E	C	A	E	C	A
Approach Delay		31.2			34.5		30.8			30.0	
Approach LOS		C			C		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 84.3	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.73	
Intersection Signal Delay: 30.8	Intersection LOS: C
Intersection Capacity Utilization 68.9%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	227	255	125	40	70	44	58	846	46	52	809	107
Future Volume (veh/h)	227	255	125	40	70	44	58	846	46	52	809	107
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	234	263	64	41	72	39	60	872	40	54	834	65
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	281	356	302	133	117	63	85	1174	524	80	1163	507
Arrive On Green	0.17	0.20	0.20	0.08	0.11	0.11	0.05	0.34	0.34	0.05	0.34	0.34
Sat Flow, veh/h	1619	1800	1525	1619	1097	594	1619	3420	1525	1619	3420	1491
Grp Volume(v), veh/h	234	263	64	41	0	111	60	872	40	54	834	65
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1691	1619	1710	1525	1619	1710	1491
Q Serve(g_s), s	8.5	8.4	2.1	1.5	0.0	3.8	2.2	13.7	1.1	2.0	13.0	1.8
Cycle Q Clear(g_c), s	8.5	8.4	2.1	1.5	0.0	3.8	2.2	13.7	1.1	2.0	13.0	1.8
Prop In Lane	1.00		1.00	1.00		0.35	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	281	356	302	133	0	180	85	1174	524	80	1163	507
V/C Ratio(X)	0.83	0.74	0.21	0.31	0.00	0.62	0.71	0.74	0.08	0.68	0.72	0.13
Avail Cap(c_a), veh/h	650	1489	1262	265	0	997	133	1933	862	133	1933	843
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.4	23.0	20.5	26.4	0.0	26.1	28.5	17.7	13.5	28.5	17.6	13.9
Incr Delay (d2), s/veh	2.5	2.2	0.3	0.5	0.0	2.5	4.0	0.9	0.1	3.7	0.8	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.0	3.3	0.7	0.5	0.0	1.5	0.8	4.3	0.3	0.8	4.1	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.9	25.2	20.8	26.9	0.0	28.6	32.5	18.6	13.6	32.3	18.4	14.0
LnGrp LOS	C	C	C	C	A	C	C	B	B	C	B	B
Approach Vol, veh/h		561			152			972			953	
Approach Delay, s/veh		25.4			28.1			19.3			18.9	
Approach LOS		C			C			B			B	

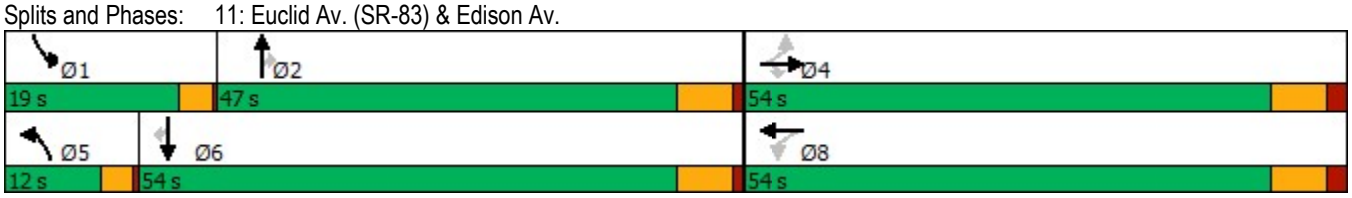
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.5	27.0	8.5	19.1	6.7	26.8	14.1	13.5
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	34.5	10.0	50.5	5.0	34.5	24.5	36.0
Max Q Clear Time (g_c+I1), s	4.0	15.7	3.5	10.4	4.2	15.0	10.5	5.8
Green Ext Time (p_c), s	0.0	5.2	0.0	1.3	0.0	5.1	0.3	0.4

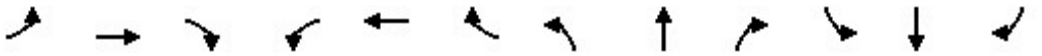
Intersection Summary	
HCM 6th Ctrl Delay	21.0
HCM 6th LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	230	435	152	34	193	89	705	42	62	678	158
Future Volume (vph)	230	435	152	34	193	89	705	42	62	678	158
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	28.1	28.1	28.1	28.1	28.1	7.3	24.1	24.1	8.4	25.2	25.2
Actuated g/C Ratio	0.37	0.37	0.37	0.37	0.37	0.10	0.32	0.32	0.11	0.33	0.33
v/c Ratio	0.64	0.67	0.23	0.16	0.39	0.30	0.66	0.08	0.36	0.61	0.26
Control Delay	31.2	27.2	4.5	20.9	20.3	42.8	28.0	0.3	44.8	25.5	5.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	31.2	27.2	4.5	20.9	20.3	42.8	28.0	0.3	44.8	25.5	5.3
LOS	C	C	A	C	C	D	C	A	D	C	A
Approach Delay		24.1			20.3		28.2			23.3	
Approach LOS		C			C		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 76	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.67	
Intersection Signal Delay: 24.7	Intersection LOS: C
Intersection Capacity Utilization 74.1%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	230	435	152	34	193	57	89	705	42	62	678	158
Future Volume (veh/h)	230	435	152	34	193	57	89	705	42	62	678	158
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	235	444	104	35	197	47	91	719	33	63	692	110
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	420	718	608	267	559	133	194	1019	443	84	986	434
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.06	0.30	0.30	0.05	0.29	0.29
Sat Flow, veh/h	1032	1800	1525	781	1400	334	3141	3420	1488	1619	3420	1506
Grp Volume(v), veh/h	235	444	104	35	0	244	91	719	33	63	692	110
Grp Sat Flow(s),veh/h/ln	1032	1800	1525	781	0	1735	1570	1710	1488	1619	1710	1506
Q Serve(g_s), s	13.5	12.9	2.9	2.5	0.0	6.5	1.8	12.3	1.0	2.5	11.9	3.7
Cycle Q Clear(g_c), s	20.0	12.9	2.9	15.4	0.0	6.5	1.8	12.3	1.0	2.5	11.9	3.7
Prop In Lane	1.00		1.00	1.00		0.19	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	420	718	608	267	0	692	194	1019	443	84	986	434
V/C Ratio(X)	0.56	0.62	0.17	0.13	0.00	0.35	0.47	0.71	0.07	0.75	0.70	0.25
Avail Cap(c_a), veh/h	747	1288	1092	515	0	1241	407	2135	929	382	2500	1101
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	20.8	15.8	12.7	21.9	0.0	13.8	29.8	20.5	16.6	30.7	20.9	17.9
Incr Delay (d2), s/veh	1.2	0.9	0.1	0.2	0.0	0.3	0.7	0.9	0.1	4.9	0.9	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	4.5	0.8	0.4	0.0	2.2	0.6	4.1	0.3	1.0	4.0	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	22.0	16.6	12.9	22.1	0.0	14.1	30.4	21.4	16.6	35.6	21.8	18.2
LnGrp LOS	C	B	B	C	A	B	C	C	B	D	C	B
Approach Vol, veh/h		783			279			843			865	
Approach Delay, s/veh		17.7			15.1			22.2			22.3	
Approach LOS		B			B			C			C	

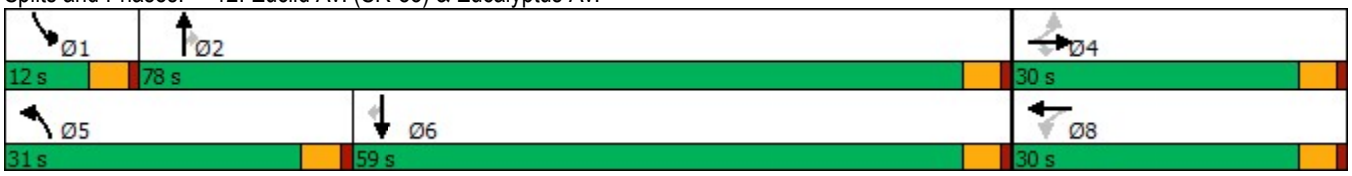
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.9	25.6		33.2	7.5	24.9		33.2				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	4.5	14.3		22.0	3.8	13.9		17.4				
Green Ext Time (p_c), s	0.0	4.5		4.1	0.0	4.8		1.6				

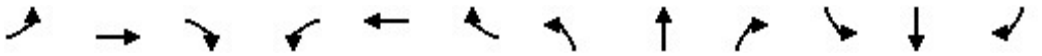
Intersection Summary												
HCM 6th Ctrl Delay			20.3									
HCM 6th LOS			C									

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	35	130	182	5	22	88	918	19	47	1094	50
Future Volume (vph)	35	130	182	5	22	88	918	19	47	1094	50
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	30.0	30.0	30.0	30.0	30.0	31.0	78.0	78.0	12.0	59.0	59.0
Total Split (%)	25.0%	25.0%	25.0%	25.0%	25.0%	25.8%	65.0%	65.0%	10.0%	49.2%	49.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	11.8	11.8	11.8	11.8	11.8	10.3	36.6	36.6	7.4	31.4	31.4
Actuated g/C Ratio	0.18	0.18	0.18	0.18	0.18	0.16	0.57	0.57	0.11	0.49	0.49
v/c Ratio	0.16	0.41	0.44	0.02	0.11	0.36	0.49	0.02	0.26	0.69	0.07
Control Delay	29.3	32.0	8.7	28.2	22.0	33.6	10.4	0.1	37.7	16.8	0.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.3	32.0	8.7	28.2	22.0	33.6	10.4	0.1	37.7	16.8	0.8
LOS	C	C	A	C	C	C	B	A	D	B	A
Approach Delay		19.5			22.8		12.2			16.9	
Approach LOS		B			C		B			B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 64.6	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.69	
Intersection Signal Delay: 15.5	Intersection LOS: B
Intersection Capacity Utilization 59.2%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	35	130	182	5	22	11	88	918	19	47	1094	50
Future Volume (veh/h)	35	130	182	5	22	11	88	918	19	47	1094	50
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	36	135	95	5	23	8	92	956	18	49	1140	41
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	306	240	204	225	170	59	122	1775	792	82	1690	753
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.08	0.52	0.52	0.05	0.49	0.49
Sat Flow, veh/h	1253	1800	1525	1046	1276	444	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	36	135	95	5	0	31	92	956	18	49	1140	41
Grp Sat Flow(s),veh/h/ln	1253	1800	1525	1046	0	1720	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	1.2	3.2	2.6	0.2	0.0	0.7	2.5	8.5	0.3	1.3	11.5	0.6
Cycle Q Clear(g_c), s	1.9	3.2	2.6	3.4	0.0	0.7	2.5	8.5	0.3	1.3	11.5	0.6
Prop In Lane	1.00		1.00	1.00		0.26	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	306	240	204	225	0	230	122	1775	792	82	1690	753
V/C Ratio(X)	0.12	0.56	0.47	0.02	0.00	0.13	0.75	0.54	0.02	0.60	0.67	0.05
Avail Cap(c_a), veh/h	841	1009	855	671	0	964	943	5527	2465	267	4098	1826
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.2	18.5	18.2	20.0	0.0	17.4	20.6	7.3	5.3	21.1	8.7	6.0
Incr Delay (d2), s/veh	0.2	2.1	1.7	0.0	0.0	0.3	8.9	0.3	0.0	6.7	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	1.3	0.8	0.0	0.0	0.3	1.0	1.4	0.0	0.6	2.2	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	18.4	20.5	19.9	20.1	0.0	17.6	29.5	7.6	5.3	27.9	9.2	6.0
LnGrp LOS	B	C	B	C	A	B	C	A	A	C	A	A
Approach Vol, veh/h		266			36			1066			1230	
Approach Delay, s/veh		20.0			18.0			9.4			9.8	
Approach LOS		B			B			A			A	

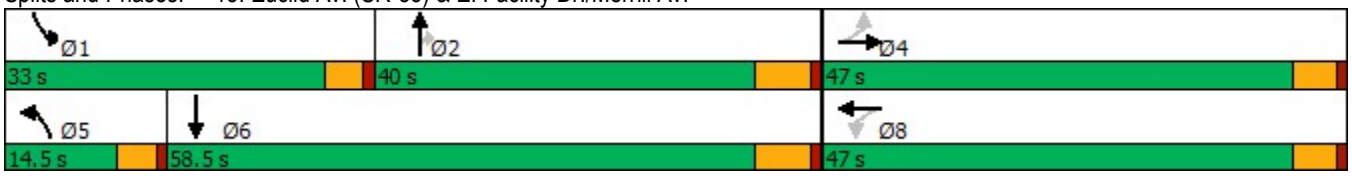
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.8	28.1		10.6	7.9	27.0		10.6				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	7.5	73.5		25.5	26.5	54.5		25.5				
Max Q Clear Time (g_c+I1), s	3.3	10.5		5.2	4.5	13.5		5.4				
Green Ext Time (p_c), s	0.0	7.1		1.0	0.2	9.0		0.1				

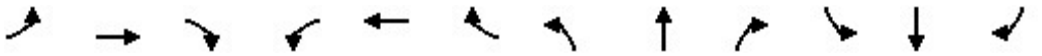
Intersection Summary			
HCM 6th Ctrl Delay		10.8	
HCM 6th LOS		B	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	3	19	128	0	1	831	171	228	1043
Future Volume (vph)	3	19	128	0	1	831	171	228	1043
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	47.0	47.0	47.0	47.0	14.5	40.0	40.0	33.0	58.5
Total Split (%)	39.2%	39.2%	39.2%	39.2%	12.1%	33.3%	33.3%	27.5%	48.8%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		22.2		22.2	10.6	28.1	28.1	17.5	48.3
Actuated g/C Ratio		0.26		0.26	0.13	0.33	0.33	0.21	0.57
v/c Ratio		0.07		0.73	0.00	0.75	0.31	0.70	0.55
Control Delay		21.1		29.9	45.0	31.9	13.5	45.6	14.9
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		21.1		29.9	45.0	31.9	13.5	45.6	14.9
LOS		C		C	D	C	B	D	B
Approach Delay		21.1		29.9		28.8			20.4
Approach LOS		C		C		C			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 84.2	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.75	
Intersection Signal Delay: 24.7	Intersection LOS: C
Intersection Capacity Utilization 78.6%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	3	19	8	128	0	191	1	831	171	228	1043	10
Future Volume (veh/h)	3	19	8	128	0	191	1	831	171	228	1043	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	3	20	4	132	0	168	1	857	142	235	1075	8
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	81	342	63	220	18	198	4	1156	505	281	1770	13
Arrive On Green	0.24	0.24	0.24	0.24	0.00	0.24	0.00	0.34	0.34	0.17	0.51	0.51
Sat Flow, veh/h	72	1408	258	567	74	815	1619	3420	1493	1619	3479	26
Grp Volume(v), veh/h	27	0	0	300	0	0	1	857	142	235	528	555
Grp Sat Flow(s),veh/h/ln	1738	0	0	1456	0	0	1619	1710	1493	1619	1710	1795
Q Serve(g_s), s	0.0	0.0	0.0	10.8	0.0	0.0	0.0	14.0	4.4	8.9	13.9	13.9
Cycle Q Clear(g_c), s	0.7	0.0	0.0	12.3	0.0	0.0	0.0	14.0	4.4	8.9	13.9	13.9
Prop In Lane	0.11		0.15	0.44		0.56	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	486	0	0	436	0	0	4	1156	505	281	870	913
V/C Ratio(X)	0.06	0.00	0.00	0.69	0.00	0.00	0.22	0.74	0.28	0.84	0.61	0.61
Avail Cap(c_a), veh/h	1185	0	0	1043	0	0	257	1844	805	732	1424	1495
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	18.4	0.0	0.0	22.7	0.0	0.0	31.4	18.4	15.3	25.2	11.0	11.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.7	0.0	0.0	9.1	1.0	0.3	2.6	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.0	3.7	0.0	0.0	0.0	4.5	1.2	3.1	3.7	3.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	18.4	0.0	0.0	23.4	0.0	0.0	40.5	19.4	15.6	27.8	11.7	11.7
LnGrp LOS	B	A	A	C	A	A	D	B	B	C	B	B
Approach Vol, veh/h		27			300			1000			1318	
Approach Delay, s/veh		18.4			23.4			18.9			14.6	
Approach LOS		B			C			B			B	

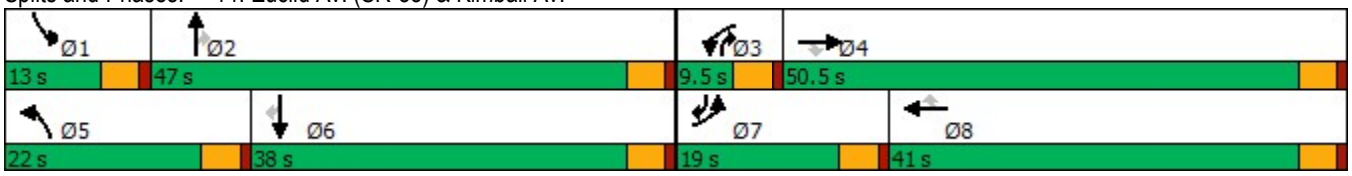
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.4	27.3		20.3	4.7	38.1		20.3				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	28.5	34.0		42.0	10.0	52.5		42.0				
Max Q Clear Time (g_c+I1), s	10.9	16.0		2.7	2.0	15.9		14.3				
Green Ext Time (p_c), s	0.3	5.4		0.1	0.0	6.9		1.0				

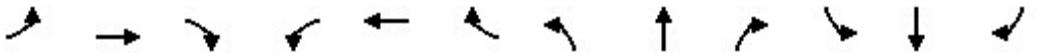
Intersection Summary			
HCM 6th Ctrl Delay		17.2	
HCM 6th LOS		B	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	320	819	31	45	361	145	59	483	161	472	470	212
Future Volume (vph)	320	819	31	45	361	145	59	483	161	472	470	212
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	19.0	50.5	50.5	9.5	41.0	41.0	22.0	47.0	9.5	13.0	38.0	19.0
Total Split (%)	15.8%	42.1%	42.1%	7.9%	34.2%	34.2%	18.3%	39.2%	7.9%	10.8%	31.7%	15.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	14.1	26.1	26.1	5.1	17.1	17.1	8.6	18.1	27.9	8.7	20.8	34.9
Actuated g/C Ratio	0.18	0.34	0.34	0.07	0.22	0.22	0.11	0.24	0.36	0.11	0.27	0.46
v/c Ratio	0.60	0.72	0.05	0.43	0.48	0.31	0.33	0.61	0.27	1.43	0.52	0.27
Control Delay	36.7	26.2	0.2	52.8	28.5	4.5	39.8	30.1	9.8	242.0	28.6	3.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	36.7	26.2	0.2	52.8	28.5	4.5	39.8	30.1	9.8	242.0	28.6	3.2
LOS	D	C	A	D	C	A	D	C	A	F	C	A
Approach Delay		28.4			24.1			26.2			111.3	
Approach LOS		C			C			C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 76.6	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.43	
Intersection Signal Delay: 54.0	Intersection LOS: D
Intersection Capacity Utilization 73.1%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	320	819	31	45	361	145	59	483	161	472	470	212
Future Volume (veh/h)	320	819	31	45	361	145	59	483	161	472	470	212
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	327	836	20	46	368	77	60	493	122	482	480	174
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	429	1151	513	70	803	358	82	732	392	385	1003	663
Arrive On Green	0.14	0.34	0.34	0.04	0.23	0.23	0.05	0.21	0.21	0.13	0.29	0.29
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	327	836	20	46	368	77	60	493	122	482	480	174
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	6.9	14.0	0.6	1.8	6.0	2.7	2.4	8.6	4.2	8.5	7.5	4.8
Cycle Q Clear(g_c), s	6.9	14.0	0.6	1.8	6.0	2.7	2.4	8.6	4.2	8.5	7.5	4.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	429	1151	513	70	803	358	82	732	392	385	1003	663
V/C Ratio(X)	0.76	0.73	0.04	0.66	0.46	0.21	0.73	0.67	0.31	1.25	0.48	0.26
Avail Cap(c_a), veh/h	657	2411	1075	124	1913	853	434	2228	1060	385	1756	994
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.8	19.0	14.5	30.7	21.4	20.1	30.5	23.6	19.6	28.4	18.9	11.6
Incr Delay (d2), s/veh	2.8	0.9	0.0	9.9	0.4	0.3	11.6	1.1	0.4	133.0	0.4	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	4.8	0.2	0.8	2.2	0.9	1.1	3.1	1.4	9.7	2.5	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.7	19.9	14.6	40.6	21.8	20.4	42.2	24.6	20.0	161.3	19.3	11.8
LnGrp LOS	C	B	B	D	C	C	D	C	C	F	B	B
Approach Vol, veh/h		1183			491			675			1136	
Approach Delay, s/veh		22.5			23.4			25.4			78.4	
Approach LOS		C			C			C			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.0	18.5	7.3	26.5	7.8	23.6	14.0	19.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.5	42.5	5.0	46.0	17.5	33.5	14.5	36.5
Max Q Clear Time (g_c+I1), s	10.5	10.6	3.8	16.0	4.4	9.5	8.9	8.0
Green Ext Time (p_c), s	0.0	3.3	0.0	6.0	0.1	3.3	0.5	2.5

Intersection Summary	
HCM 6th Ctrl Delay	41.4
HCM 6th LOS	D

Intersection	
Intersection Delay, s/veh	13.8
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	53	359	21	8	80	13	26	155	19	16	84	18
Future Vol, veh/h	53	359	21	8	80	13	26	155	19	16	84	18
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	56	382	22	9	85	14	28	165	20	17	89	19
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	16.8	9.6	11.4	10.2
HCM LOS	C	A	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	12%	8%	14%
Vol Thru, %	78%	83%	79%	71%
Vol Right, %	10%	5%	13%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	200	433	101	118
LT Vol	26	53	8	16
Through Vol	155	359	80	84
RT Vol	19	21	13	18
Lane Flow Rate	213	461	107	126
Geometry Grp	1	1	1	1
Degree of Util (X)	0.331	0.645	0.164	0.2
Departure Headway (Hd)	5.596	5.042	5.511	5.726
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	643	714	649	625
Service Time	3.639	3.075	3.56	3.773
HCM Lane V/C Ratio	0.331	0.646	0.165	0.202
HCM Control Delay	11.4	16.8	9.6	10.2
HCM Lane LOS	B	C	A	B
HCM 95th-tile Q	1.4	4.7	0.6	0.7

Intersection	
Intersection Delay, s/veh	28.6
Intersection LOS	D

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	59	513	23	6	194	16	7	120	12	18	72	22
Future Vol, veh/h	59	513	23	6	194	16	7	120	12	18	72	22
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	64	558	25	7	211	17	8	130	13	20	78	24
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	41.7	12.2	12	11.4
HCM LOS	E	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	10%	3%	16%
Vol Thru, %	86%	86%	90%	64%
Vol Right, %	9%	4%	7%	20%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	139	595	216	112
LT Vol	7	59	6	18
Through Vol	120	513	194	72
RT Vol	12	23	16	22
Lane Flow Rate	151	647	235	122
Geometry Grp	1	1	1	1
Degree of Util (X)	0.271	0.929	0.373	0.22
Departure Headway (Hd)	6.457	5.171	5.725	6.497
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	551	698	625	548
Service Time	4.551	3.23	3.807	4.594
HCM Lane V/C Ratio	0.274	0.927	0.376	0.223
HCM Control Delay	12	41.7	12.2	11.4
HCM Lane LOS	B	E	B	B
HCM 95th-tile Q	1.1	12.7	1.7	0.8

Intersection	
Intersection Delay, s/veh	19.2
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	108	192	91	2	54	45	22	308	31	56	119	30
Future Vol, veh/h	108	192	91	2	54	45	22	308	31	56	119	30
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	119	211	100	2	59	49	24	338	34	62	131	33
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	22.8	11.3	20.5	13.8
HCM LOS	C	B	C	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	6%	28%	2%	27%
Vol Thru, %	85%	49%	53%	58%
Vol Right, %	9%	23%	45%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	361	391	101	205
LT Vol	22	108	2	56
Through Vol	308	192	54	119
RT Vol	31	91	45	30
Lane Flow Rate	397	430	111	225
Geometry Grp	1	1	1	1
Degree of Util (X)	0.668	0.716	0.203	0.402
Departure Headway (Hd)	6.062	5.995	6.585	6.424
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	595	602	543	559
Service Time	4.113	4.042	4.656	4.484
HCM Lane V/C Ratio	0.667	0.714	0.204	0.403
HCM Control Delay	20.5	22.8	11.3	13.8
HCM Lane LOS	C	C	B	B
HCM 95th-tile Q	5	5.9	0.8	1.9

Intersection	
Intersection Delay, s/veh	52.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	48	475	14	7	196	33	6	267	53	48	145	24
Future Vol, veh/h	48	475	14	7	196	33	6	267	53	48	145	24
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	52	511	15	8	211	35	6	287	57	52	156	26
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	95.1	19.2	27	19
HCM LOS	F	C	D	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	2%	9%	3%	22%
Vol Thru, %	82%	88%	83%	67%
Vol Right, %	16%	3%	14%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	326	537	236	217
LT Vol	6	48	7	48
Through Vol	267	475	196	145
RT Vol	53	14	33	24
Lane Flow Rate	351	577	254	233
Geometry Grp	1	1	1	1
Degree of Util (X)	0.707	1.1	0.526	0.501
Departure Headway (Hd)	7.641	6.856	7.811	8.147
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	477	531	464	446
Service Time	5.641	4.919	5.811	6.147
HCM Lane V/C Ratio	0.736	1.087	0.547	0.522
HCM Control Delay	27	95.1	19.2	19
HCM Lane LOS	D	F	C	C
HCM 95th-tile Q	5.5	18.3	3	2.7

Intersection	
Intersection Delay, s/veh	49.8
Intersection LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	19	539	3	8	210	64	1	92	121	152	51	17
Future Vol, veh/h	19	539	3	8	210	64	1	92	121	152	51	17
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	21	586	3	9	228	70	1	100	132	165	55	18
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

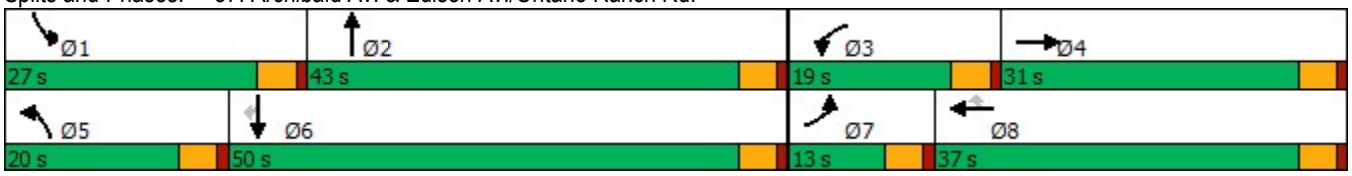
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	90.2	19.4	16.6	18.2
HCM LOS	F	C	C	C

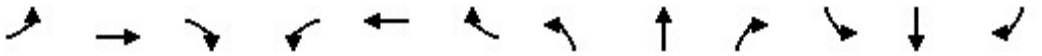
Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	3%	3%	69%
Vol Thru, %	43%	96%	74%	23%
Vol Right, %	57%	1%	23%	8%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	214	561	282	220
LT Vol	1	19	8	152
Through Vol	92	539	210	51
RT Vol	121	3	64	17
Lane Flow Rate	233	610	307	239
Geometry Grp	1	1	1	1
Degree of Util (X)	0.456	1.092	0.581	0.493
Departure Headway (Hd)	7.461	6.445	7.067	7.826
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	486	567	515	464
Service Time	5.461	4.458	5.067	5.826
HCM Lane V/C Ratio	0.479	1.076	0.596	0.515
HCM Control Delay	16.6	90.2	19.4	18.2
HCM Lane LOS	C	F	C	C
HCM 95th-tile Q	2.3	18.7	3.7	2.7

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	95	508	265	243	176	106	95	744	293	147	753	60
Future Volume (vph)	95	508	265	243	176	106	95	744	293	147	753	60
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	13.0	31.0		19.0	37.0	37.0	20.0	43.0		27.0	50.0	50.0
Total Split (%)	10.8%	25.8%		15.8%	30.8%	30.8%	16.7%	35.8%		22.5%	41.7%	41.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	8.0	19.7	93.1	12.7	27.4	27.4	11.2	27.1	93.1	14.8	33.9	33.9
Actuated g/C Ratio	0.09	0.21	1.00	0.14	0.29	0.29	0.12	0.29	1.00	0.16	0.36	0.36
v/c Ratio	0.38	0.70	0.18	0.62	0.35	0.21	0.52	0.75	0.20	0.61	0.61	0.10
Control Delay	50.6	41.2	0.3	48.5	32.2	4.4	52.9	35.9	0.3	50.1	28.4	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	50.6	41.2	0.3	48.5	32.2	4.4	52.9	35.9	0.3	50.1	28.4	0.3
LOS	D	D	A	D	C	A	D	D	A	D	C	A
Approach Delay		29.7			34.1			28.1			30.0	
Approach LOS		C			C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 93.1	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.75	
Intersection Signal Delay: 29.9	Intersection LOS: C
Intersection Capacity Utilization 68.9%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	95	508	265	243	176	106	95	744	293	147	753	60
Future Volume (veh/h)	95	508	265	243	176	106	95	744	293	147	753	60
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	100	535	0	256	185	70	100	783	0	155	793	44
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	189	747		353	471	398	126	1060		194	1211	513
Arrive On Green	0.06	0.21	0.00	0.12	0.26	0.26	0.08	0.29	0.00	0.12	0.34	0.34
Sat Flow, veh/h	3048	3600	1525	3048	1800	1524	1619	3600	1525	1619	3600	1525
Grp Volume(v), veh/h	100	535	0	256	185	70	100	783	0	155	793	44
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1524	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	2.2	9.5	0.0	5.6	5.8	2.4	4.2	13.5	0.0	6.4	12.9	1.4
Cycle Q Clear(g_c), s	2.2	9.5	0.0	5.6	5.8	2.4	4.2	13.5	0.0	6.4	12.9	1.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	189	747		353	471	398	126	1060		194	1211	513
V/C Ratio(X)	0.53	0.72		0.72	0.39	0.18	0.79	0.74		0.80	0.65	0.09
Avail Cap(c_a), veh/h	377	1389		644	852	721	366	2019		531	2386	1011
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.2	25.3	0.0	29.3	20.9	19.6	31.1	21.8	0.0	29.4	19.4	15.6
Incr Delay (d2), s/veh	2.3	1.3	0.0	2.8	0.5	0.2	10.5	1.0	0.0	7.3	0.6	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	3.7	0.0	2.0	2.2	0.8	1.8	4.9	0.0	2.6	4.5	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	33.5	26.6	0.0	32.1	21.4	19.8	41.6	22.9	0.0	36.7	20.0	15.6
LnGrp LOS	C	C		C	C	B	D	C		D	B	B
Approach Vol, veh/h		635	A		511			883	A		992	
Approach Delay, s/veh		27.7			26.6			25.0			22.4	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.7	24.7	12.5	18.7	9.9	27.6	8.8	22.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	22.5	38.5	14.5	26.5	15.5	45.5	8.5	32.5
Max Q Clear Time (g_c+I1), s	8.4	15.5	7.6	11.5	6.2	14.9	4.2	7.8
Green Ext Time (p_c), s	0.3	4.7	0.5	2.7	0.1	5.3	0.1	1.1

Intersection Summary	
HCM 6th Ctrl Delay	25.0
HCM 6th LOS	C

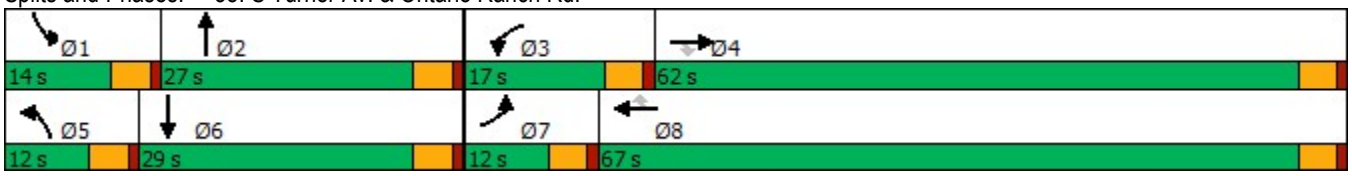
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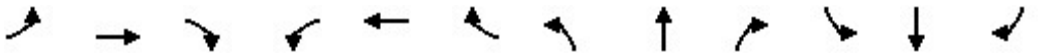
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	16	929	44	55	629	25	16	11	41	28
Future Volume (vph)	16	929	44	55	629	25	16	11	41	28
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	27.0	14.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	22.5%	11.7%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.5	27.5	27.5	9.1	32.5	32.5	7.5	8.8	8.4	13.3
Actuated g/C Ratio	0.12	0.46	0.46	0.15	0.54	0.54	0.12	0.15	0.14	0.22
v/c Ratio	0.08	0.60	0.06	0.22	0.35	0.03	0.08	0.15	0.17	0.10
Control Delay	37.0	16.9	0.1	34.1	9.7	0.0	37.0	18.3	35.3	21.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	37.0	16.9	0.1	34.1	9.7	0.0	37.0	18.3	35.3	21.3
LOS	D	B	A	C	A	A	D	B	D	C
Approach Delay		16.4			11.3			23.8		28.6
Approach LOS		B			B			C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 60	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.60	
Intersection Signal Delay: 15.2	Intersection LOS: B
Intersection Capacity Utilization 50.0%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	16	929	44	55	629	25	16	11	27	41	28	9
Future Volume (veh/h)	16	929	44	55	629	25	16	11	27	41	28	9
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	17	999	42	59	676	24	17	12	17	44	30	8
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	38	1540	687	102	1668	744	38	73	103	83	184	49
Arrive On Green	0.02	0.43	0.43	0.06	0.46	0.46	0.02	0.10	0.10	0.05	0.13	0.13
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	711	1007	1810	1445	385
Grp Volume(v), veh/h	17	999	42	59	676	24	17	0	29	44	0	38
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1719	1810	0	1831
Q Serve(g_s), s	0.5	10.7	0.7	1.6	6.1	0.4	0.5	0.0	0.8	1.2	0.0	0.9
Cycle Q Clear(g_c), s	0.5	10.7	0.7	1.6	6.1	0.4	0.5	0.0	0.8	1.2	0.0	0.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.59	1.00		0.21
Lane Grp Cap(c), veh/h	38	1540	687	102	1668	744	38	0	176	83	0	233
V/C Ratio(X)	0.45	0.65	0.06	0.58	0.41	0.03	0.45	0.00	0.16	0.53	0.00	0.16
Avail Cap(c_a), veh/h	278	4250	1896	463	4620	2061	278	0	792	352	0	918
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	23.6	11.1	8.2	22.5	8.7	7.2	23.6	0.0	20.0	22.8	0.0	19.0
Incr Delay (d2), s/veh	7.9	0.5	0.0	5.1	0.2	0.0	7.9	0.0	0.4	5.1	0.0	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	3.0	0.2	0.7	1.6	0.1	0.3	0.0	0.3	0.5	0.0	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.6	11.6	8.3	27.6	8.9	7.2	31.6	0.0	20.4	27.9	0.0	19.3
LnGrp LOS	C	B	A	C	A	A	C	A	C	C	A	B
Approach Vol, veh/h		1058			759			46			82	
Approach Delay, s/veh		11.8			10.3			24.6			23.9	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.7	9.5	7.3	25.3	5.5	10.7	5.5	27.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.5	22.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	3.2	2.8	3.6	12.7	2.5	2.9	2.5	8.1
Green Ext Time (p_c), s	0.0	0.1	0.1	8.1	0.0	0.1	0.0	4.8

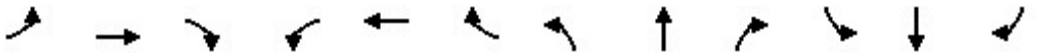
Intersection Summary	
HCM 6th Ctrl Delay	12.0
HCM 6th LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	143	787	35	221	611	192	18	179	68	196	306	47
Future Volume (vph)	143	787	35	221	611	192	18	179	68	196	306	47
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	27.0	33.0	33.0	22.0	28.0	28.0	11.0	32.0	32.0	33.0	54.0	54.0
Total Split (%)	22.5%	27.5%	27.5%	18.3%	23.3%	23.3%	9.2%	26.7%	26.7%	27.5%	45.0%	45.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	14.3	22.2	22.2	12.8	20.8	20.8	6.4	15.3	15.3	17.4	33.9	33.9
Actuated g/C Ratio	0.16	0.26	0.26	0.15	0.24	0.24	0.07	0.18	0.18	0.20	0.39	0.39
v/c Ratio	0.58	0.67	0.08	0.55	0.44	0.41	0.16	0.60	0.18	0.65	0.47	0.08
Control Delay	46.0	33.5	0.3	42.5	31.2	7.9	49.5	44.3	0.9	44.4	24.6	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	46.0	33.5	0.3	42.5	31.2	7.9	49.5	44.3	0.9	44.4	24.6	0.2
LOS	D	C	A	D	C	A	D	D	A	D	C	A
Approach Delay		34.1			29.3			33.5			29.6	
Approach LOS		C			C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 86.8	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.67	
Intersection Signal Delay: 31.4	Intersection LOS: C
Intersection Capacity Utilization 60.8%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	143	787	35	221	611	192	18	179	68	196	306	47
Future Volume (veh/h)	143	787	35	221	611	192	18	179	68	196	306	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	154	846	23	238	657	138	19	192	39	211	329	27
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	195	1317	409	346	1636	397	37	282	239	263	534	450
Arrive On Green	0.12	0.27	0.27	0.12	0.26	0.26	0.02	0.16	0.16	0.16	0.30	0.30
Sat Flow, veh/h	1619	4914	1525	2956	6192	1502	1619	1800	1523	1619	1800	1518
Grp Volume(v), veh/h	154	846	23	238	657	138	19	192	39	211	329	27
Grp Sat Flow(s),veh/h/ln	1619	1638	1525	1478	1548	1502	1619	1800	1523	1619	1800	1518
Q Serve(g_s), s	5.6	9.3	0.7	4.7	5.3	4.5	0.7	6.1	1.3	7.6	9.6	0.8
Cycle Q Clear(g_c), s	5.6	9.3	0.7	4.7	5.3	4.5	0.7	6.1	1.3	7.6	9.6	0.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	195	1317	409	346	1636	397	37	282	239	263	534	450
V/C Ratio(X)	0.79	0.64	0.06	0.69	0.40	0.35	0.52	0.68	0.16	0.80	0.62	0.06
Avail Cap(c_a), veh/h	599	2304	715	851	2394	581	173	814	689	759	1466	1236
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.0	19.7	16.5	25.8	18.4	18.1	29.4	24.2	22.2	24.5	18.4	15.3
Incr Delay (d2), s/veh	6.9	0.5	0.1	2.4	0.2	0.5	11.0	2.9	0.3	5.7	1.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	3.0	0.2	1.5	1.6	1.3	0.4	2.5	0.4	3.0	3.5	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	32.9	20.2	16.6	28.2	18.6	18.6	40.3	27.1	22.5	30.2	19.6	15.4
LnGrp LOS	C	C	B	C	B	B	D	C	C	C	B	B
Approach Vol, veh/h		1023			1033			250			567	
Approach Delay, s/veh		22.0			20.8			27.4			23.3	
Approach LOS		C			C			C			C	

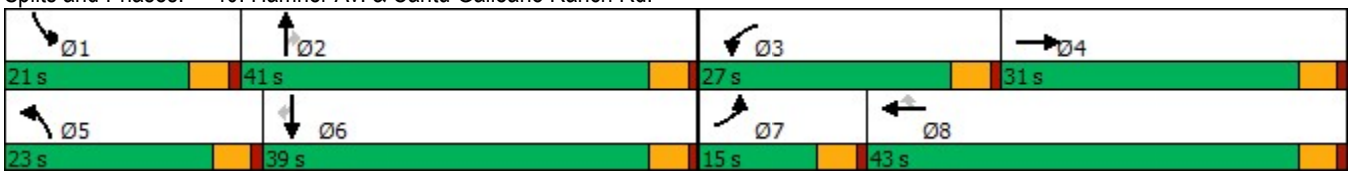
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.4	14.0	11.6	20.8	5.9	22.5	11.8	20.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	27.5	17.5	28.5	6.5	49.5	22.5	23.5
Max Q Clear Time (g_c+I1), s	9.6	8.1	6.7	11.3	2.7	11.6	7.6	7.3
Green Ext Time (p_c), s	0.5	1.0	0.5	4.9	0.0	1.9	0.3	3.9

Intersection Summary	
HCM 6th Ctrl Delay	22.3
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	126	655	371	684	151	298	356	293	240	499	90
Future Volume (vph)	126	655	371	684	151	298	356	293	240	499	90
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	27.0	43.0	43.0	23.0	41.0	41.0	21.0	39.0	39.0
Total Split (%)	12.5%	25.8%	22.5%	35.8%	35.8%	19.2%	34.2%	34.2%	17.5%	32.5%	32.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	8.9	20.2	15.8	27.1	27.1	13.7	21.0	21.0	12.2	19.5	19.5
Actuated g/C Ratio	0.10	0.23	0.18	0.31	0.31	0.16	0.24	0.24	0.14	0.22	0.22
v/c Ratio	0.38	0.64	0.62	0.65	0.26	0.58	0.30	0.50	0.52	0.66	0.20
Control Delay	44.4	31.3	39.9	30.1	5.5	41.2	29.2	6.8	41.9	36.6	3.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	44.4	31.3	39.9	30.1	5.5	41.2	29.2	6.8	41.9	36.6	3.1
LOS	D	C	D	C	A	D	C	A	D	D	A
Approach Delay		32.9		30.0			26.1			34.5	
Approach LOS		C		C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 87.9	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.66	
Intersection Signal Delay: 30.8	Intersection LOS: C
Intersection Capacity Utilization 61.6%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	126	655	254	371	684	151	298	356	293	240	499	90
Future Volume (veh/h)	126	655	254	371	684	151	298	356	293	240	499	90
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	133	689	210	391	720	93	314	375	224	253	525	54
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	244	1166	341	538	1134	506	448	1215	377	377	773	345
Arrive On Green	0.07	0.23	0.23	0.15	0.31	0.31	0.13	0.23	0.23	0.11	0.21	0.21
Sat Flow, veh/h	3510	5055	1480	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	133	667	232	391	720	93	314	375	224	253	525	54
Grp Sat Flow(s),veh/h/ln	1755	1634	1634	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	2.4	7.9	8.3	7.0	11.2	2.8	5.6	3.9	8.1	4.5	8.8	1.8
Cycle Q Clear(g_c), s	2.4	7.9	8.3	7.0	11.2	2.8	5.6	3.9	8.1	4.5	8.8	1.8
Prop In Lane	1.00		0.91	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	244	1130	377	538	1134	506	448	1215	377	377	773	345
V/C Ratio(X)	0.54	0.59	0.62	0.73	0.63	0.18	0.70	0.31	0.59	0.67	0.68	0.16
Avail Cap(c_a), veh/h	563	1983	661	1206	2121	946	991	2890	897	884	1901	848
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	29.5	22.5	22.6	26.4	19.2	16.4	27.4	20.7	22.3	28.1	23.7	20.9
Incr Delay (d2), s/veh	1.9	0.5	1.6	1.9	0.6	0.2	2.0	0.1	1.5	2.1	1.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	2.6	2.9	2.6	3.9	0.9	2.2	1.4	2.7	1.8	3.3	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.4	22.9	24.2	28.3	19.8	16.5	29.4	20.8	23.8	30.2	24.7	21.2
LnGrp LOS	C	C	C	C	B	B	C	C	C	C	C	C
Approach Vol, veh/h		1032			1204			913			832	
Approach Delay, s/veh		24.3			22.3			24.5			26.2	
Approach LOS		C			C			C			C	

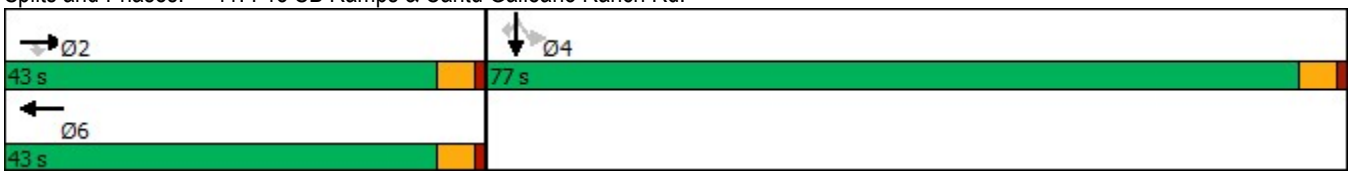
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.5	19.8	14.5	19.6	12.9	18.5	9.1	25.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	36.5	22.5	26.5	18.5	34.5	10.5	38.5
Max Q Clear Time (g_c+I1), s	6.5	10.1	9.0	10.3	7.6	10.8	4.4	13.2
Green Ext Time (p_c), s	0.6	3.0	1.1	4.8	0.8	3.3	0.2	4.7

Intersection Summary	
HCM 6th Ctrl Delay	24.2
HCM 6th LOS	C

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	1130	329	601	140	301	1	1170
Future Volume (vph)	1130	329	601	140	301	1	1170
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	43.0	43.0	43.0		77.0	77.0	77.0
Total Split (%)	35.8%	35.8%	35.8%		64.2%	64.2%	64.2%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	30.1	30.1	30.1	86.8	46.9	46.9	46.9
Actuated g/C Ratio	0.35	0.35	0.35	1.00	0.54	0.54	0.54
v/c Ratio	0.67	0.44	0.51	0.05	0.31	0.77	0.73
Control Delay	28.1	5.0	26.4	0.0	12.1	21.0	19.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	28.1	5.0	26.4	0.0	12.1	21.0	19.1
LOS	C	A	C	A	B	C	B
Approach Delay	22.9		21.4			18.6	
Approach LOS	C		C			B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 86.8	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.77	
Intersection Signal Delay: 20.9	Intersection LOS: C
Intersection Capacity Utilization 72.4%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	1130	329	0	601	140	0	0	0	301	1	1170
Future Volume (veh/h)	0	1130	329	0	601	140	0	0	0	301	1	1170
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	1202	0	0	639	0				214	0	1048
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94				0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	2019		0	1405					783	0	1394
Arrive On Green	0.00	0.39	0.00	0.00	0.39	0.00				0.43	0.00	0.43
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	1202	0	0	639	0				214	0	1048
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	9.3	0.0	0.0	6.6	0.0				3.8	0.0	13.8
Cycle Q Clear(g_c), s	0.0	9.3	0.0	0.0	6.6	0.0				3.8	0.0	13.8
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2019		0	1405					783	0	1394
V/C Ratio(X)	0.00	0.60		0.00	0.45					0.27	0.00	0.75
Avail Cap(c_a), veh/h	0	3950		0	2749					2595	0	4618
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	12.3	0.0	0.0	11.5	0.0				9.2	0.0	12.1
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	0.2	0.0				0.2	0.0	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	2.4	0.0	0.0	1.8	0.0				1.1	0.0	3.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	12.6	0.0	0.0	11.7	0.0				9.4	0.0	12.9
LnGrp LOS	A	B		A	B					A	A	B
Approach Vol, veh/h		1202	A		639	A					1262	
Approach Delay, s/veh		12.6			11.7						12.3	
Approach LOS		B			B						B	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	24.2	26.4	24.2
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	38.5	72.5	38.5
Max Q Clear Time (g_c+I1), s	11.3	15.8	8.6
Green Ext Time (p_c), s	8.4	6.0	3.9

Intersection Summary	
HCM 6th Ctrl Delay	12.3
HCM 6th LOS	B

Notes

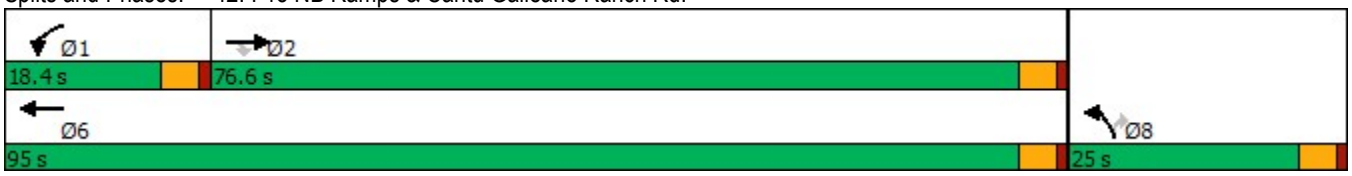
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	710	721	219	394	347	154
Future Volume (vph)	710	721	219	394	347	154
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	76.6	76.6	18.4	95.0	25.0	25.0
Total Split (%)	63.8%	63.8%	15.3%	79.2%	20.8%	20.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	21.0	21.0	9.6	35.3	12.0	12.0
Actuated g/C Ratio	0.37	0.37	0.17	0.62	0.21	0.21
v/c Ratio	0.39	0.73	0.39	0.13	0.51	0.34
Control Delay	13.8	7.1	25.5	4.5	23.8	7.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	13.8	7.1	25.5	4.5	23.8	7.6
LOS	B	A	C	A	C	A
Approach Delay	10.4			12.0	19.3	
Approach LOS	B			B	B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 56.8	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.73	
Intersection Signal Delay: 12.5	Intersection LOS: B
Intersection Capacity Utilization 58.4%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	710	721	219	394	347	154
Future Volume (veh/h)	710	721	219	394	347	154
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	740	482	228	410	361	105
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	2276	706	381	3338	594	264
Arrive On Green	0.44	0.44	0.11	0.64	0.16	0.16
Sat Flow, veh/h	5358	1610	3510	5358	3619	1610
Grp Volume(v), veh/h	740	482	228	410	361	105
Grp Sat Flow(s),veh/h/ln	1729	1610	1755	1729	1810	1610
Q Serve(g_s), s	4.4	11.2	2.9	1.4	4.3	2.7
Cycle Q Clear(g_c), s	4.4	11.2	2.9	1.4	4.3	2.7
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	2276	706	381	3338	594	264
V/C Ratio(X)	0.33	0.68	0.60	0.12	0.61	0.40
Avail Cap(c_a), veh/h	7998	2483	1044	10039	1587	706
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.6	10.5	19.9	3.2	18.1	17.5
Incr Delay (d2), s/veh	0.1	1.2	1.5	0.0	1.0	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	2.5	1.0	0.1	1.5	0.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	8.7	11.7	21.4	3.2	19.2	18.4
LnGrp LOS	A	B	C	A	B	B
Approach Vol, veh/h	1222			638	466	
Approach Delay, s/veh	9.9			9.7	19.0	
Approach LOS	A			A	B	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	9.6	25.0				34.6	12.2
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	13.9	72.1				90.5	20.5
Max Q Clear Time (g_c+I1), s	4.9	13.2				3.4	6.3
Green Ext Time (p_c), s	0.5	7.3				2.6	1.4

Intersection Summary			
HCM 6th Ctrl Delay		11.7	
HCM 6th LOS		B	

Notes

User approved volume balancing among the lanes for turning movement.

APPENDIX 3.3: EXISTING (2022) CONDITIONS TRAFFIC SIGNAL WARRANT ANALYSIS WORKSHEETS

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Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

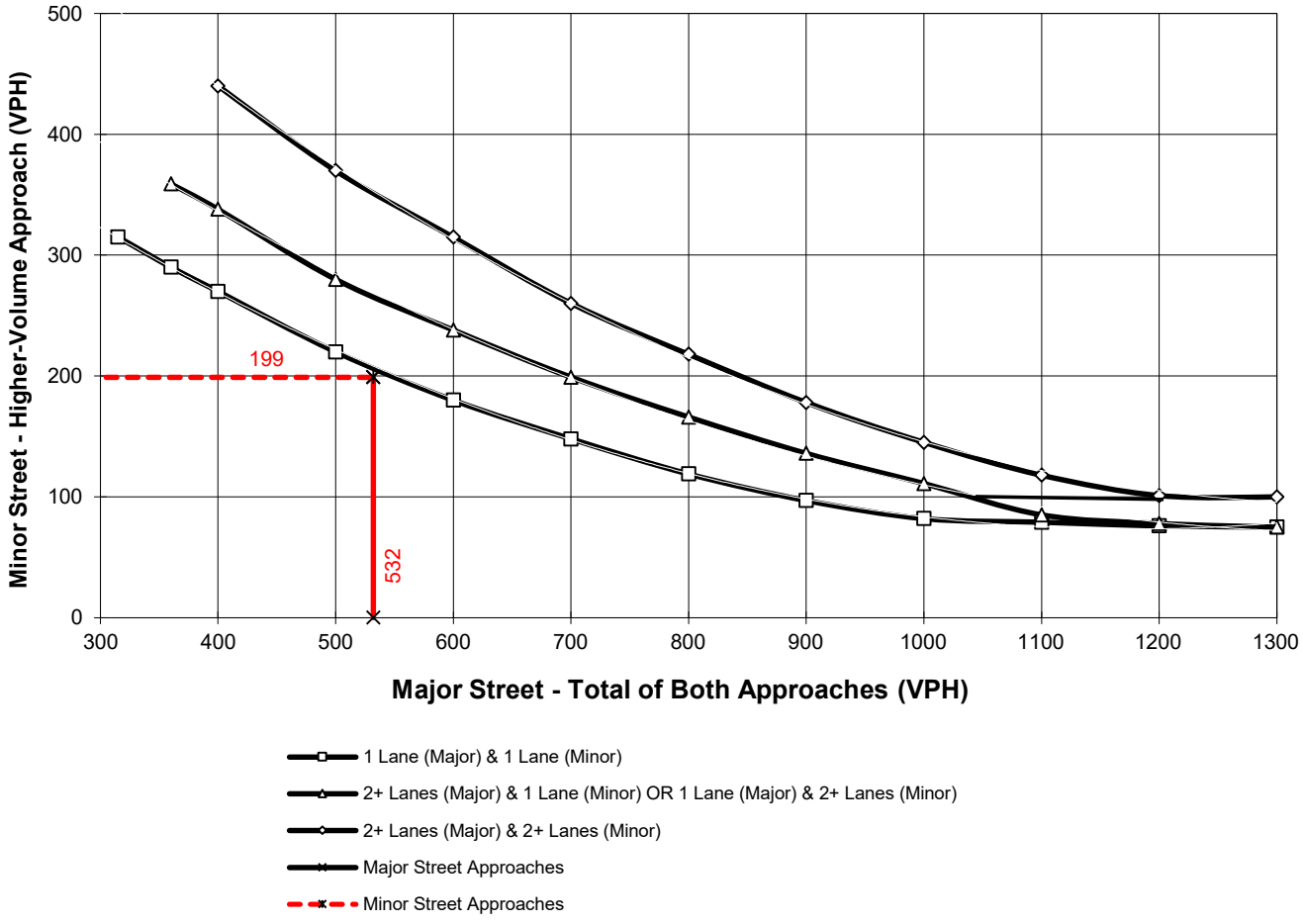
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **Existing (2022) Conditions - Weekday PM Peak Hour**

Major Street Name = **Schaefer Av.** Total of Both Approaches (VPH) = **532**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Bon View Av.** High Volume Approach (VPH) = **199**
Number of Approach Lanes Minor Street = **1**

SIGNAL WARRANT NOT SATISFIED



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

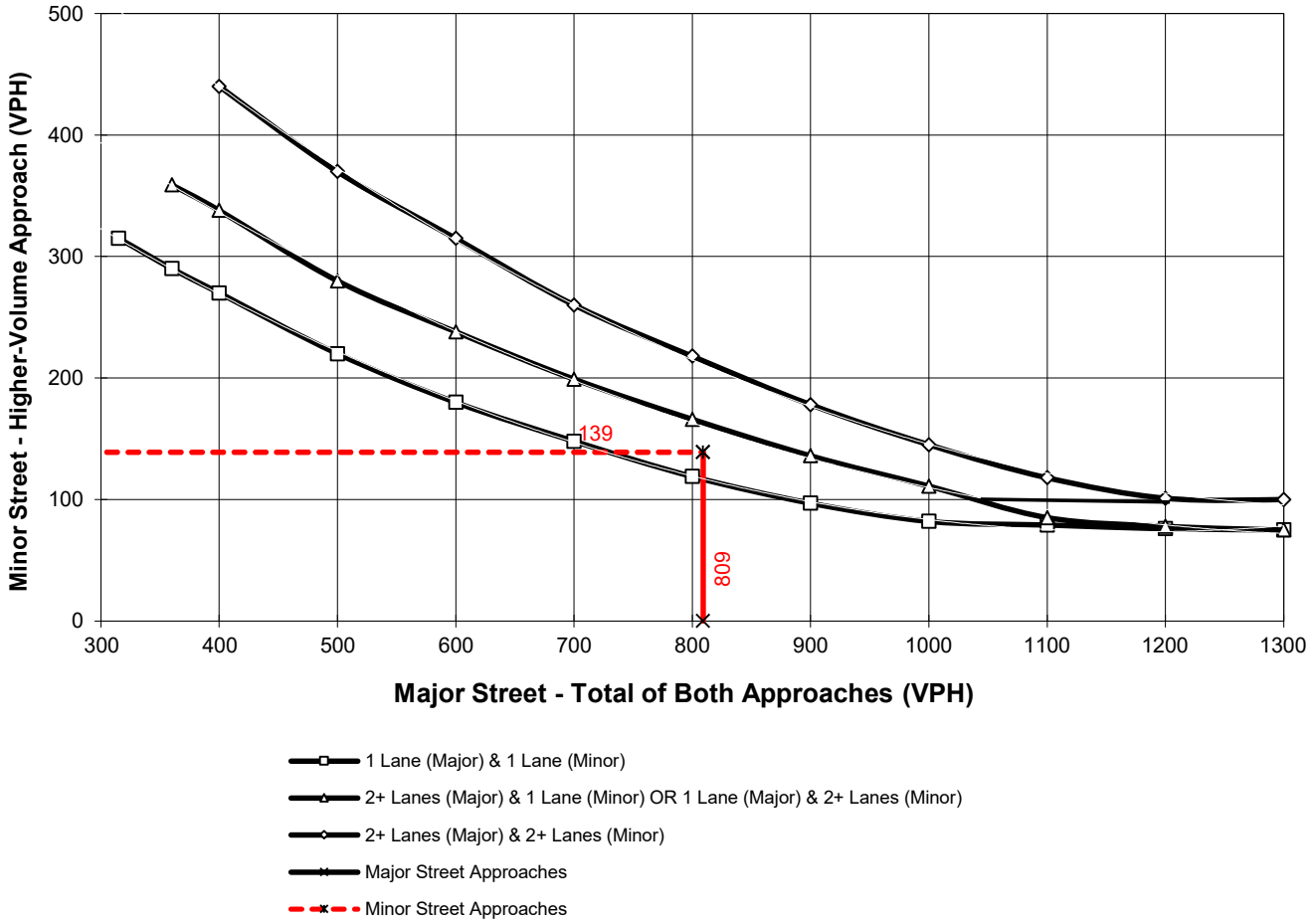
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **Existing (2022) Conditions - Weekday PM Peak Hour**

Major Street Name = **Edison Av.** Total of Both Approaches (VPH) = **809**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Bon View Av.** High Volume Approach (VPH) = **139**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

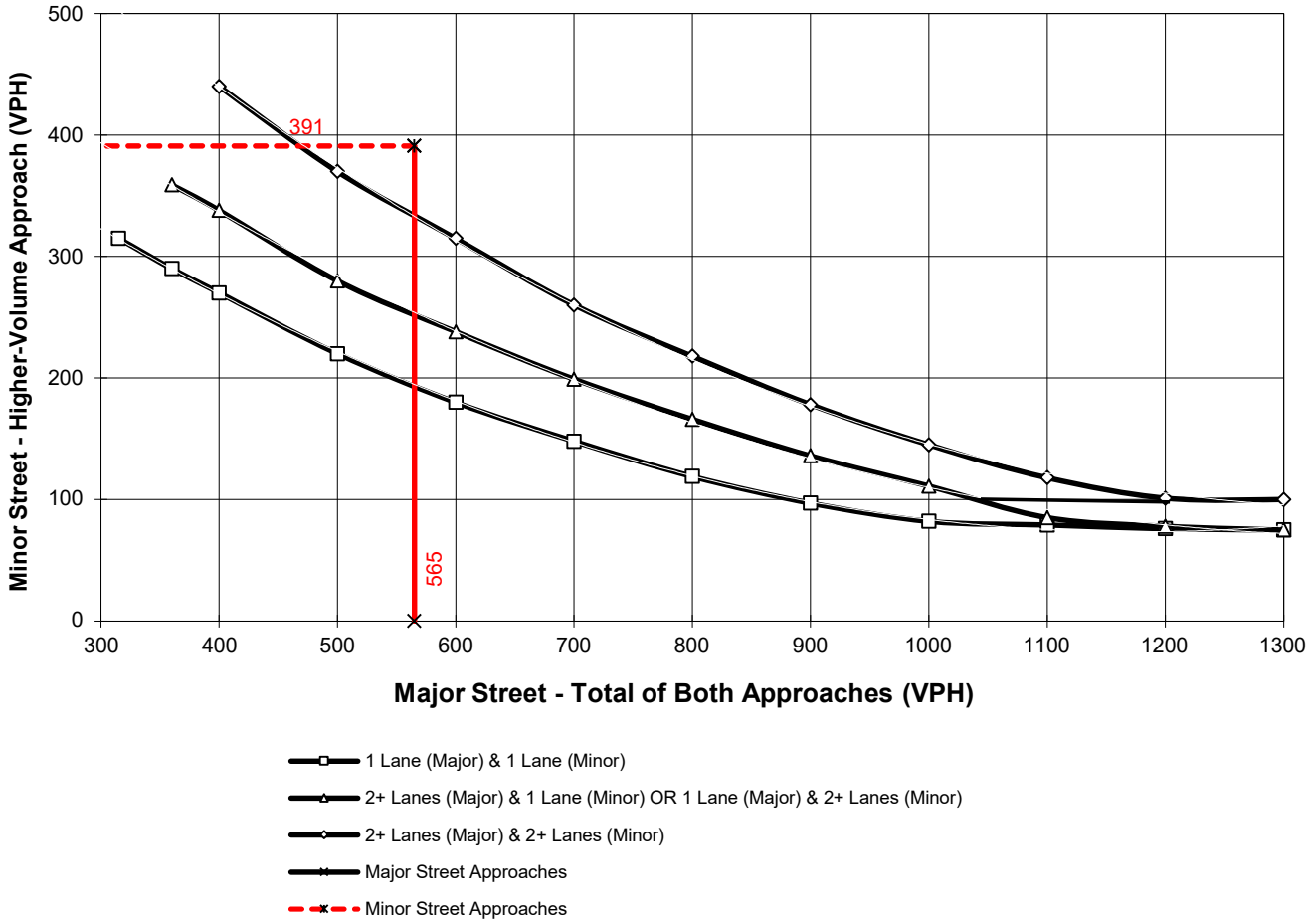
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **Existing (2022) Conditions - Weekday PM Peak Hour**

Major Street Name = **Grove Av.**
Total of Both Approaches (VPH) = **565**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Schaefer Av.**
High Volume Approach (VPH) = **391**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

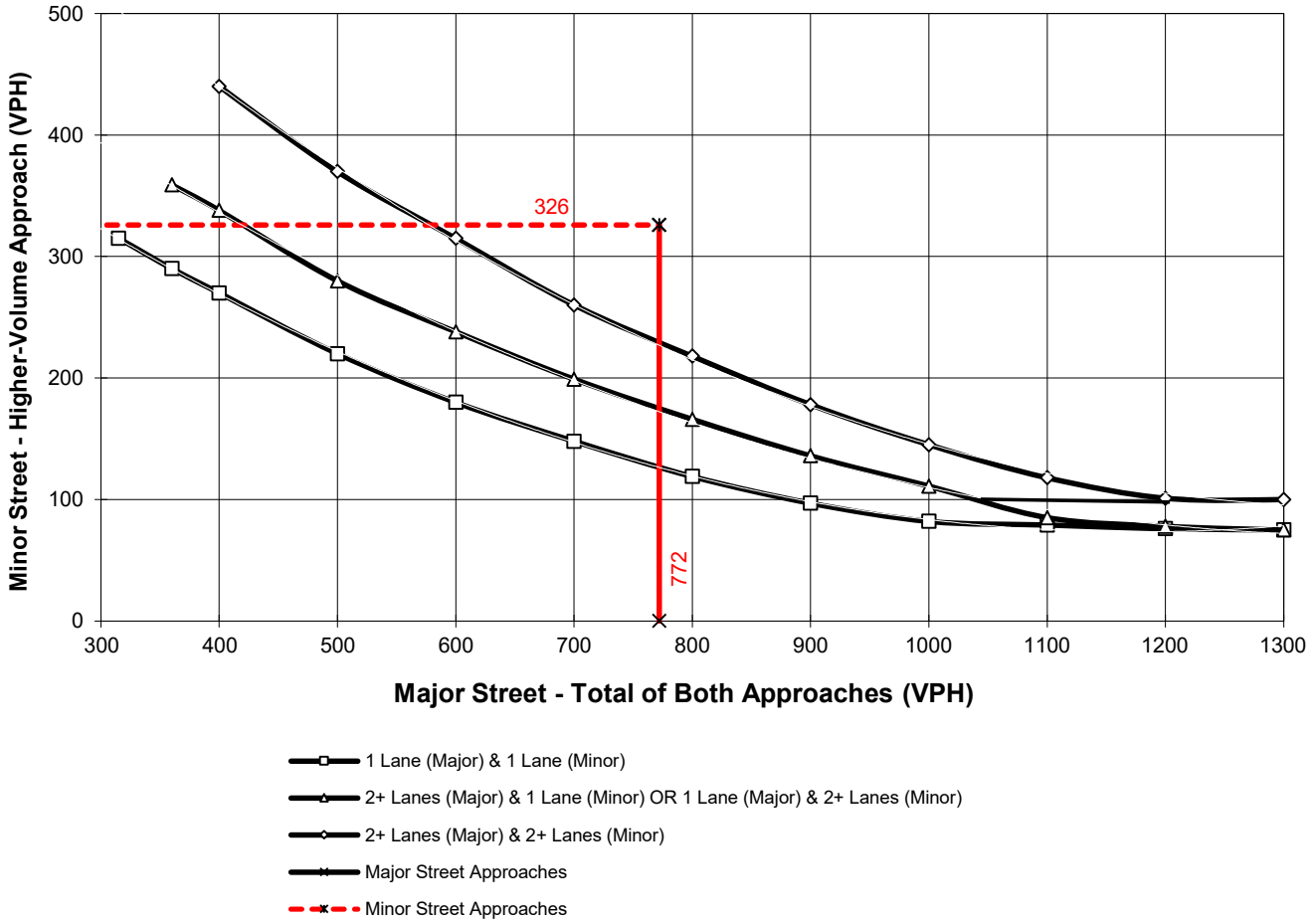
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **Existing (2022) Conditions - Weekday PM Peak Hour**

Major Street Name = **Edison Av.** Total of Both Approaches (VPH) = **772**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Grove Av.** High Volume Approach (VPH) = **326**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

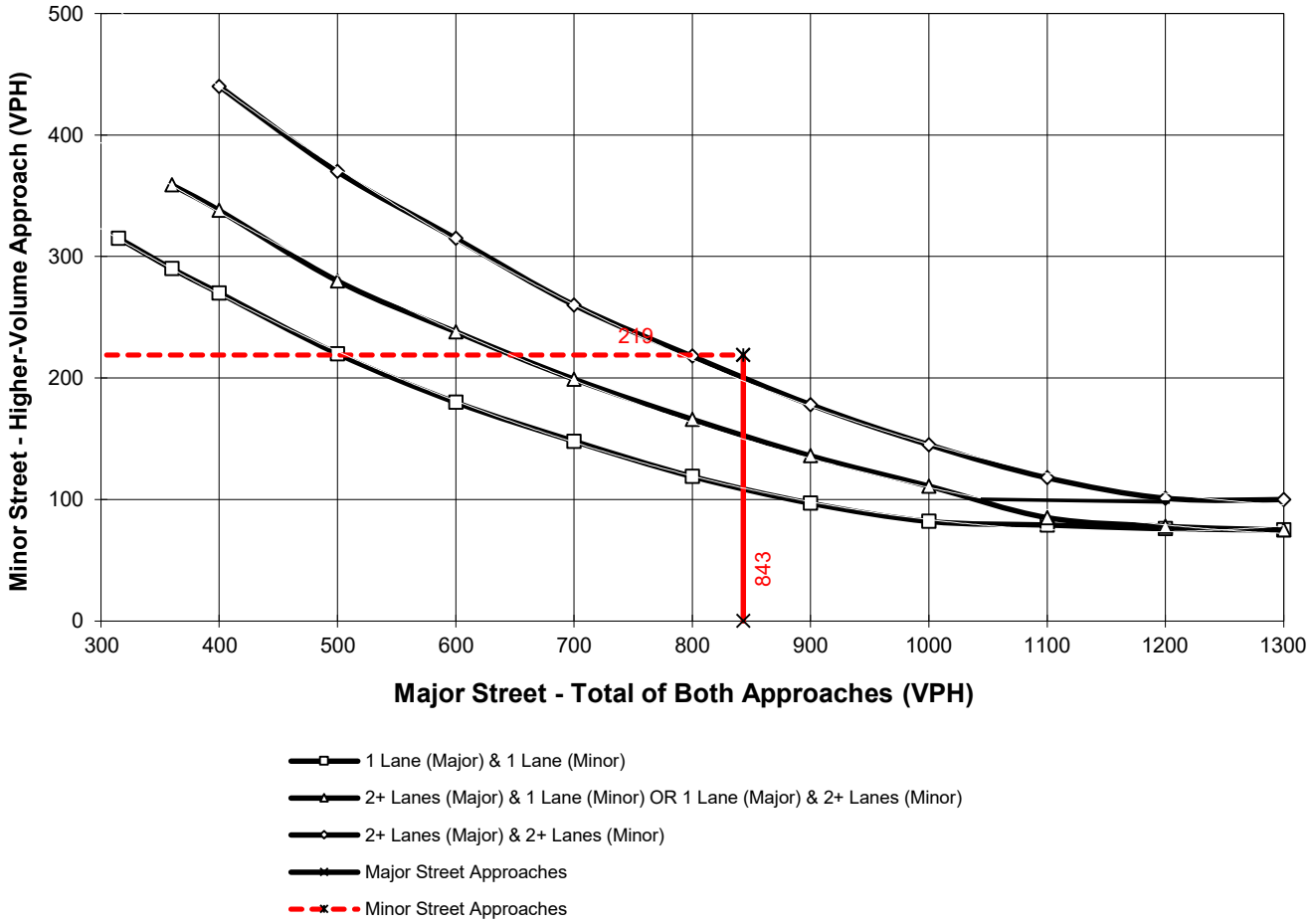
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **Existing (2022) Conditions - Weekday PM Peak Hour**

Major Street Name = **Edison Av.** Total of Both Approaches (VPH) = **843**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Walker Av.** High Volume Approach (VPH) = **219**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

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APPENDIX 3.4: EXISTING (2022) CONDITIONS OFF-RAMP QUEUING ANALYSIS WORKSHEETS

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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	351	342	317	344	922	948	377
v/c Ratio	0.85	0.86	0.65	0.87	0.38	0.63	0.43
Control Delay	62.1	62.4	25.5	73.3	9.0	32.4	4.7
Queue Delay	0.3	0.4	0.0	0.0	0.2	0.0	0.0
Total Delay	62.4	62.7	25.5	73.3	9.2	32.4	4.7
Queue Length 50th (ft)	268	264	112	285	148	314	2
Queue Length 95th (ft)	376	379	209	m381	m197	432	71
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	485	464	548	473	2422	1495	886
Starvation Cap Reductn	0	0	0	0	682	0	0
Spillback Cap Reductn	11	11	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.74	0.75	0.58	0.73	0.53	0.63	0.43

Intersection Summary

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	359	451	815	713	385	1106
v/c Ratio	0.80	0.93	0.60	0.72	0.89	0.47
Control Delay	54.7	60.5	34.3	9.2	77.2	13.1
Queue Delay	0.0	0.0	0.0	0.0	0.2	0.2
Total Delay	54.7	60.5	34.3	9.2	77.4	13.3
Queue Length 50th (ft)	262	276	284	36	321	208
Queue Length 95th (ft)	382	#472	367	193	#430	282
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	500	525	1357	988	496	2346
Starvation Cap Reductn	0	0	0	0	5	509
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.72	0.86	0.60	0.72	0.78	0.60

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	892	338	746	188	263	537	529
v/c Ratio	0.53	0.45	0.63	0.07	0.30	0.68	0.65
Control Delay	20.4	4.9	23.0	0.0	10.0	15.5	14.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	20.4	4.9	23.0	0.0	10.0	15.5	14.3
Queue Length 50th (ft)	95	0	120	0	51	128	117
Queue Length 95th (ft)	207	59	271	0	127	319	289
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	3501	1199	2436	2842	1607	1389	1440
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.25	0.28	0.31	0.07	0.16	0.39	0.37

Intersection Summary



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	407	693	198	410	576	266
v/c Ratio	0.29	0.74	0.34	0.15	0.56	0.43
Control Delay	16.1	7.2	23.3	6.7	18.0	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	16.1	7.2	23.3	6.7	18.0	5.2
Queue Length 50th (ft)	35	0	26	20	67	0
Queue Length 95th (ft)	68	68	70	42	149	52
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	5149	1608	1028	5187	1559	807
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.43	0.19	0.08	0.37	0.33

Intersection Summary



Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	345	338	304	311	878	851	447
v/c Ratio	0.73	0.75	0.55	0.74	0.39	0.69	0.53
Control Delay	43.9	44.6	17.3	48.2	9.7	31.5	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Total Delay	43.9	44.6	17.3	48.2	9.8	31.5	5.1
Queue Length 50th (ft)	202	204	61	182	133	239	0
Queue Length 95th (ft)	370	381	175	320	192	363	68
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	643	613	689	616	2931	1717	1002
Starvation Cap Reductn	0	0	0	0	859	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.54	0.55	0.44	0.50	0.42	0.50	0.45

Intersection Summary



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	259	294	926	482	351	1157
v/c Ratio	0.67	0.68	0.70	0.55	0.76	0.48
Control Delay	44.4	31.4	29.9	5.0	46.4	8.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.2
Total Delay	44.4	31.4	29.9	5.0	46.4	8.7
Queue Length 50th (ft)	150	109	243	0	194	151
Queue Length 95th (ft)	274	234	402	73	360	267
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	644	649	1754	1006	653	3020
Starvation Cap Reductn	0	0	0	0	0	846
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.40	0.45	0.53	0.48	0.54	0.53

Intersection Summary



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	1202	350	639	149	288	643	635
v/c Ratio	0.67	0.44	0.51	0.05	0.31	0.77	0.73
Control Delay	28.1	5.0	26.4	0.0	12.1	21.0	19.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	28.1	5.0	26.4	0.0	12.1	21.0	19.1
Queue Length 50th (ft)	201	0	143	0	85	249	227
Queue Length 95th (ft)	355	66	274	0	156	469	423
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	2514	963	1750	2842	1412	1233	1277
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.48	0.36	0.37	0.05	0.20	0.52	0.50

Intersection Summary



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	740	751	228	410	377	144
v/c Ratio	0.39	0.73	0.39	0.13	0.51	0.34
Control Delay	13.8	7.1	25.5	4.5	23.8	7.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	13.8	7.1	25.5	4.5	23.8	7.6
Queue Length 50th (ft)	61	14	32	16	54	0
Queue Length 95th (ft)	112	104	87	34	125	48
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	5077	1595	899	5187	1327	646
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.15	0.47	0.25	0.08	0.28	0.22

Intersection Summary

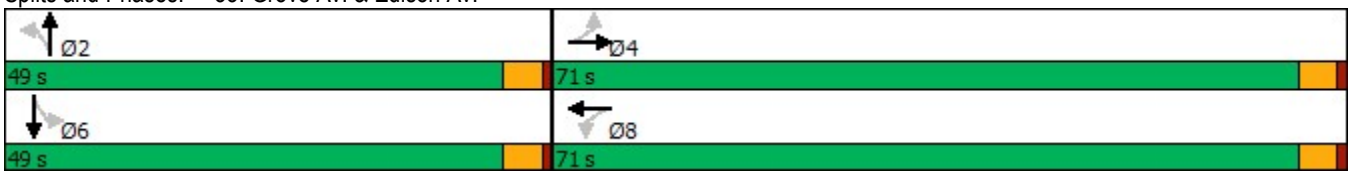
APPENDIX 3.5: EXISTING (2022) CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS WITH IMPROVEMENTS

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Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	55	215	29	386	36	216	40	189
Future Volume (vph)	55	215	29	386	36	216	40	189
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	71.0	71.0	71.0	71.0	49.0	49.0	49.0	49.0
Total Split (%)	59.2%	59.2%	59.2%	59.2%	40.8%	40.8%	40.8%	40.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		20.2		20.2		14.4		14.4
Actuated g/C Ratio		0.46		0.46		0.33		0.33
v/c Ratio		0.44		0.64		0.51		0.53
Control Delay		10.7		13.8		17.1		17.4
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		10.7		13.8		17.1		17.4
LOS		B		B		B		B
Approach Delay		10.7		13.8		17.1		17.4
Approach LOS		B		B		B		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 44.3	
Natural Cycle: 50	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.64	
Intersection Signal Delay: 14.5	Intersection LOS: B
Intersection Capacity Utilization 61.4%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	55	215	18	29	386	59	36	216	6	40	189	38
Future Volume (veh/h)	55	215	18	29	386	59	36	216	6	40	189	38
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	59	229	19	31	411	63	38	230	6	43	201	40
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	223	576	43	154	614	90	180	414	10	185	346	63
Arrive On Green	0.42	0.42	0.42	0.42	0.42	0.42	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	174	1375	102	49	1465	216	138	1548	38	153	1293	237
Grp Volume(v), veh/h	307	0	0	505	0	0	274	0	0	284	0	0
Grp Sat Flow(s),veh/h/ln	1652	0	0	1730	0	0	1724	0	0	1683	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0
Cycle Q Clear(g_c), s	3.5	0.0	0.0	6.7	0.0	0.0	3.8	0.0	0.0	4.1	0.0	0.0
Prop In Lane	0.19		0.06	0.06		0.12	0.14		0.02	0.15		0.14
Lane Grp Cap(c), veh/h	842	0	0	858	0	0	604	0	0	594	0	0
V/C Ratio(X)	0.36	0.00	0.00	0.59	0.00	0.00	0.45	0.00	0.00	0.48	0.00	0.00
Avail Cap(c_a), veh/h	3668	0	0	4075	0	0	2718	0	0	2655	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	5.9	0.0	0.0	6.8	0.0	0.0	9.1	0.0	0.0	9.2	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.6	0.0	0.0	0.5	0.0	0.0	0.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.0	0.9	0.0	0.0	0.8	0.0	0.0	0.8	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	6.1	0.0	0.0	7.4	0.0	0.0	9.6	0.0	0.0	9.8	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	A	A	A	A	A	A
Approach Vol, veh/h		307			505			274			284	
Approach Delay, s/veh		6.1			7.4			9.6			9.8	
Approach LOS		A			A			A			A	

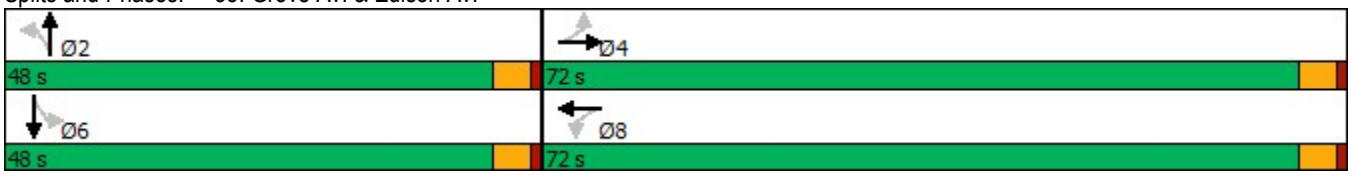
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		12.2		16.5		12.2		16.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		44.5		66.5		44.5		66.5				
Max Q Clear Time (g_c+I1), s		5.8		5.5		6.1		8.7				
Green Ext Time (p_c), s		1.5		2.0		1.6		3.3				

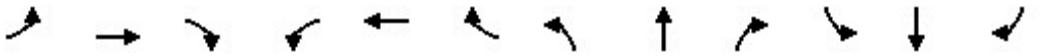
Intersection Summary												
HCM 6th Ctrl Delay			8.1									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	48	475	7	196	6	267	48	145
Future Volume (vph)	48	475	7	196	6	267	48	145
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	72.0	72.0	72.0	72.0	48.0	48.0	48.0	48.0
Total Split (%)	60.0%	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		25.8		25.8		17.5		17.5
Actuated g/C Ratio		0.48		0.48		0.33		0.33
v/c Ratio		0.70		0.30		0.60		0.45
Control Delay		16.2		9.3		21.1		18.7
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		16.2		9.3		21.1		18.7
LOS		B		A		C		B
Approach Delay		16.2		9.3		21.1		18.7
Approach LOS		B		A		C		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 53.2	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.70	
Intersection Signal Delay: 16.6	Intersection LOS: B
Intersection Capacity Utilization 89.5%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	48	475	14	7	196	33	6	267	53	48	145	24
Future Volume (veh/h)	48	475	14	7	196	33	6	267	53	48	145	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	52	511	15	8	211	35	6	287	57	52	156	26
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	152	714	20	115	660	106	110	424	83	194	368	54
Arrive On Green	0.44	0.44	0.44	0.44	0.44	0.44	0.29	0.29	0.29	0.29	0.29	0.29
Sat Flow, veh/h	85	1607	45	15	1484	240	10	1450	284	222	1257	185
Grp Volume(v), veh/h	578	0	0	254	0	0	350	0	0	234	0	0
Grp Sat Flow(s),veh/h/ln	1737	0	0	1739	0	0	1743	0	0	1664	0	0
Q Serve(g_s), s	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	9.3	0.0	0.0	3.2	0.0	0.0	6.1	0.0	0.0	3.7	0.0	0.0
Prop In Lane	0.09		0.03	0.03		0.14	0.02		0.16	0.22		0.11
Lane Grp Cap(c), veh/h	886	0	0	881	0	0	617	0	0	616	0	0
V/C Ratio(X)	0.65	0.00	0.00	0.29	0.00	0.00	0.57	0.00	0.00	0.38	0.00	0.00
Avail Cap(c_a), veh/h	3475	0	0	3476	0	0	2313	0	0	2086	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.8	0.0	0.0	6.2	0.0	0.0	10.7	0.0	0.0	9.9	0.0	0.0
Incr Delay (d2), s/veh	0.8	0.0	0.0	0.2	0.0	0.0	0.8	0.0	0.0	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	0.0	0.0	0.6	0.0	0.0	1.4	0.0	0.0	0.9	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.6	0.0	0.0	6.4	0.0	0.0	11.5	0.0	0.0	10.3	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		578			254			350			234	
Approach Delay, s/veh		8.6			6.4			11.5			10.3	
Approach LOS		A			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		14.5		19.7		14.5		19.7				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		43.5		67.5		43.5		67.5				
Max Q Clear Time (g_c+I1), s		8.1		11.3		5.7		5.2				
Green Ext Time (p_c), s		2.0		3.9		1.3		1.5				

Intersection Summary												
HCM 6th Ctrl Delay			9.2									
HCM 6th LOS			A									

APPENDIX 4.1: POST PROCESSING WORKSHEETS

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Euclid Av. (SR-83) & SR-60 WB Ramps
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	320	318	-2	-1%	305	251	-54	-18%
	Through	857	1,661	804	94%	860	1,389	530	62%
	Right	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	NB Total	1,177	1,979	802	68%	1,165	1,640	476	41%
SOUTH BOUND	Left	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Through	882	1,391	510	58%	834	1,710	876	105%
	Right	351	358	7	2%	438	516	78	18%
	SB Total	1,233	1,749	517	42%	1,272	2,226	954	75%
EAST BOUND	Left	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Through	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Right	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	EB Total	0	0	0	#DIV/0!	0	0	0	#DIV/0!
WEST BOUND	Left	564	509	-55	-10%	614	580	-34	-5%
	Through	7	4	-3	-38%	6	3	-3	-50%
	Right	368	419	51	14%	347	371	25	7%
	WB Total	939	932	-7	-1%	966	954	-12	-1%
TOTAL ENTERING VOLUME		3,348	4,660	1312	39%	3,403	4,820	1418	42%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,749	2,226			
North Leg	Outbound	2,080	1,760			
North Leg	**TOTAL**	**3,829**	**3,986**	**8%**	**8%**	**49,487**
South Leg	Inbound	1,979	1,640			
South Leg	Outbound	1,900	2,290			
South Leg	**TOTAL**	**3,879**	**3,930**	**8%**	**8%**	**49,445**
East Leg	Inbound	932	954			
East Leg	Outbound	0	0			
East Leg	**TOTAL**	**932**	**954**	**12%**	**12%**	**7,979**
West Leg	Inbound	0	0			
West Leg	Outbound	680	770			
West Leg	**TOTAL**	**680**	**770**	**8%**	**9%**	**8,353**
OVERALL TOTAL		***9,320***	***9,640***	***8%***	***8%***	***115,263***

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Project: Euclid Mixed-Use
Scenario: Horizon Year (2050) Without Project

Job #: 15045
Analyst: JB
Date: 1/10/23

LOCATION: Euclid Av. (SR-83) & SR-60 EB Ramps
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Through	791	1,411	621	78%	889	1,357	469	53%
	Right	692	627	-65	-9%	463	350	-113	-24%
	NB Total	1,482	2,038	556	38%	1,352	1,707	356	26%
SOUTH BOUND	Left	373	413	41	11%	337	387	50	15%
	Through	1,073	1,487	414	39%	1,111	1,895	785	71%
	Right	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	SB Total	1,446	1,900	455	31%	1,448	2,282	835	58%
EAST BOUND	Left	387	539	153	39%	276	317	41	15%
	Through	0	0	0	#DIV/0!	5	3	-2	-40%
	Right	399	353	-46	-11%	250	211	-39	-15%
	EB Total	785	892	107	14%	531	531	1	0%
WEST BOUND	Left	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Through	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Right	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	WB Total	0	0	0	#DIV/0!	0	0	0	#DIV/0!
TOTAL ENTERING VOLUME		3,713	4,830	1117.5	30%	3,330	4,520	1191	36%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,900	2,282			
North Leg	Outbound	1,950	1,674			
North Leg	**TOTAL**	**3,850**	**3,956**	**8%**	**8%**	**49,445**
South Leg	Inbound	2,038	1,707			
South Leg	Outbound	1,840	2,106			
South Leg	**TOTAL**	**3,878**	**3,813**	**8%**	**7%**	**50,855**
East Leg	Inbound	0	0			
East Leg	Outbound	1,040	740			
East Leg	**TOTAL**	**1,040**	**740**	**16%**	**11%**	**6,539**
West Leg	Inbound	892	531			
West Leg	Outbound	0	0			
West Leg	**TOTAL**	**892**	**531**	**10%**	**6%**	**8,709**
OVERALL TOTAL		***9,660***	***9,040***	***8%***	***8%***	***115,547***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Euclid Av. (SR-83) & Walnut Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	88	127	39	44%	102	159	57	56%
	Through	1,215	1,777	562	46%	993	1,197	205	21%
	Right	29	58	30	104%	67	57	-10	-14%
	NB Total	1,332	1,962	631	47%	1,161	1,413	252	22%
SOUTH BOUND	Left	178	176	-2	-1%	252	230	-22	-9%
	Through	1,116	1,539	424	38%	952	1,653	701	74%
	Right	57	40	-17	-29%	118	198	80	68%
	SB Total	1,350	1,755	406	30%	1,322	2,081	759	57%
EAST BOUND	Left	95	91	-4	-4%	115	174	59	51%
	Through	245	328	83	34%	472	503	32	7%
	Right	106	198	92	87%	146	296	150	103%
	EB Total	446	617	171	38%	733	973	241	33%
WEST BOUND	Left	86	158	72	84%	61	122	62	102%
	Through	371	344	-27	-7%	218	423	205	94%
	Right	155	146	-9	-6%	140	210	70	50%
	WB Total	611	648	37	6%	419	755	337	80%
TOTAL ENTERING VOLUME		3,738	4,982	1244	33%	3,634	5,222	1588	44%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,755	2,081			
North Leg	Outbound	2,014	1,581			
North Leg	**TOTAL**	**3,769**	**3,662**	**7%**	**7%**	**50,855**
South Leg	Inbound	1,962	1,413			
South Leg	Outbound	1,895	2,071			
South Leg	**TOTAL**	**3,857**	**3,484**	**8%**	**7%**	**51,288**
East Leg	Inbound	648	755			
East Leg	Outbound	562	790			
East Leg	**TOTAL**	**1,210**	**1,545**	**6%**	**8%**	**18,933**
West Leg	Inbound	617	973			
West Leg	Outbound	511	780			
West Leg	**TOTAL**	**1,128**	**1,753**	**9%**	**14%**	**12,727**
OVERALL TOTAL		***9,964***	***10,444***	***7%***	***8%***	***133,803***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Euclid Av. (SR-83) & Riverside Dr.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	36	227	191	531%	40	294	255	644%
	Through	824	1,543	719	87%	886	1,133	248	28%
	Right	78	322	245	315%	145	439	294	203%
	NB Total	938	2,092	1,155	123%	1,070	1,866	796	74%
SOUTH BOUND	Left	220	201	-19	-9%	103	117	14	14%
	Through	979	1,579	601	61%	803	1,510	708	88%
	Right	119	164	45	38%	154	429	276	179%
	SB Total	1,318	1,944	627	48%	1,059	2,056	997	94%
EAST BOUND	Left	167	189	22	13%	131	115	-16	-12%
	Through	324	811	488	151%	467	973	507	109%
	Right	46	204	158	343%	48	164	117	245%
	EB Total	537	1,204	668	124%	645	1,252	608	94%
WEST BOUND	Left	194	263	69	36%	131	166	36	27%
	Through	458	532	74	16%	370	697	328	89%
	Right	98	34	-64	-65%	68	22	-46	-68%
	WB Total	750	829	80	11%	568	885	317	56%
TOTAL ENTERING VOLUME		3,541	6,069	2528	71%	3,342	6,059	2718	81%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,944	2,056			
North Leg	Outbound	1,766	1,270			
North Leg	**TOTAL**	**3,710**	**3,326**	**7%**	**7%**	**50,695**
South Leg	Inbound	2,092	1,866			
South Leg	Outbound	2,046	1,840			
South Leg	**TOTAL**	**4,138**	**3,706**	**5%**	**5%**	**78,655**
East Leg	Inbound	829	885			
East Leg	Outbound	1,334	1,529			
East Leg	**TOTAL**	**2,163**	**2,414**	**7%**	**8%**	**31,911**
West Leg	Inbound	1,204	1,252			
West Leg	Outbound	923	1,420			
West Leg	**TOTAL**	**2,127**	**2,672**	**7%**	**9%**	**30,271**
OVERALL TOTAL		***12,138***	***12,118***	**6%**	***6%***	***191,533***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Euclid Av. (SR-83) & Chino Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	32	69	38	119%	26	79	54	210%
	Through	799	1,976	1,178	147%	965	1,696	731	76%
	Right	111	213	103	93%	186	262	77	41%
	NB Total	941	2,258	1,318	140%	1,176	2,037	861	73%
SOUTH BOUND	Left	79	124	46	58%	87	111	25	28%
	Through	1,014	1,713	699	69%	822	1,561	740	90%
	Right	86	154	68	79%	64	181	117	183%
	SB Total	1,179	1,991	813	69%	972	1,853	881	91%
EAST BOUND	Left	70	143	74	106%	74	153	79	107%
	Through	178	285	108	61%	413	684	272	66%
	Right	42	72	30	71%	37	91	54	146%
	EB Total	289	500	211	73%	524	928	405	77%
WEST BOUND	Left	95	123	29	30%	72	165	93	129%
	Through	276	379	104	38%	119	406	287	241%
	Right	153	238	85	56%	63	122	59	94%
	WB Total	523	740	217	41%	254	693	439	173%
TOTAL ENTERING VOLUME		2,931	5,489	2558	87%	2,926	5,511	2586	88%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,991	1,853			
North Leg	Outbound	2,357	1,971			
North Leg	**TOTAL**	**4,348**	**3,824**	**6%**	**5%**	**78,303**
South Leg	Inbound	2,258	2,037			
South Leg	Outbound	1,908	1,817			
South Leg	**TOTAL**	**4,166**	**3,854**	**5%**	**5%**	**77,286**
East Leg	Inbound	740	693			
East Leg	Outbound	622	1,057			
East Leg	**TOTAL**	**1,362**	**1,750**	**9%**	**12%**	**14,980**
West Leg	Inbound	500	928			
West Leg	Outbound	602	666			
West Leg	**TOTAL**	**1,102**	**1,594**	**7%**	**10%**	**15,878**
OVERALL TOTAL		***10,978***	***11,022***	**6%**	***6%***	***186,447***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Euclid Av. (SR-83) & Schaefer Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	59	69	10	17%	58	82	25	43%
	Through	800	1,887	1,088	136%	846	1,548	703	83%
	Right	31	85	54	174%	46	65	20	43%
	NB Total	890	2,041	1,152	129%	949	1,695	747	79%
SOUTH BOUND	Left	47	107	60	128%	52	89	38	73%
	Through	1,027	1,708	681	66%	809	1,581	772	95%
	Right	127	123	-4	-3%	107	186	79	74%
	SB Total	1,201	1,938	738	61%	968	1,856	889	92%
EAST BOUND	Left	146	425	279	191%	227	268	42	18%
	Through	52	174	123	238%	255	233	-22	-8%
	Right	70	172	102	146%	125	129	5	4%
	EB Total	268	771	504	188%	606	630	25	4%
WEST BOUND	Left	2	2	0	0%	40	172	132	330%
	Through	3	1	-2	-67%	70	265	196	281%
	Right	8	7	-1	-7%	44	213	170	390%
	WB Total	13	10	-3	-20%	153	650	497	325%
TOTAL ENTERING VOLUME		2,370	4,760	2390	101%	2,675	4,831	2157	81%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,938	1,856			
North Leg	Outbound	2,319	2,029			
North Leg	**TOTAL**	**4,257**	**3,885**	**6%**	**5%**	**76,866**
South Leg	Inbound	2,041	1,695			
South Leg	Outbound	1,882	1,882			
South Leg	**TOTAL**	**3,923**	**3,577**	**6%**	**6%**	**64,596**
East Leg	Inbound	10	650			
East Leg	Outbound	366	387			
East Leg	**TOTAL**	**376**	**1,037**	**4%**	**11%**	**9,625**
West Leg	Inbound	771	630			
West Leg	Outbound	193	533			
West Leg	**TOTAL**	**964**	**1,163**	**4%**	**5%**	**22,844**
OVERALL TOTAL		***9,520***	***9,662***	**5%**	***6%***	***173,931***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Euclid Av. (SR-83) & Edison Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	116	53	-63	-54%	89	96	8	8%
	Through	643	1,053	410	64%	705	1,135	431	61%
	Right	44	172	129	295%	42	139	98	235%
	NB Total	802	1,278	476	59%	835	1,370	536	64%
SOUTH BOUND	Left	66	478	412	624%	62	284	223	362%
	Through	732	1,103	371	51%	678	1,182	505	74%
	Right	226	190	-36	-16%	158	238	80	51%
	SB Total	1,024	1,771	748	73%	897	1,704	807	90%
EAST BOUND	Left	192	415	223	116%	230	347	117	51%
	Through	163	850	688	423%	435	1,358	924	213%
	Right	96	105	9	9%	152	180	28	18%
	EB Total	451	1,370	920	204%	817	1,885	1,069	131%
WEST BOUND	Left	91	353	263	290%	34	149	115	338%
	Through	404	877	474	117%	193	726	534	277%
	Right	81	622	542	673%	57	318	261	458%
	WB Total	575	1,852	1,278	222%	284	1,193	910	321%
TOTAL ENTERING VOLUME		2,851	6,271	3420.5	120%	2,832	6,152	3321	117%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,771	1,704			
North Leg	Outbound	2,090	1,800			
North Leg	**TOTAL**	**3,861**	**3,504**	**6%**	**5%**	**64,271**
South Leg	Inbound	1,278	1,370			
South Leg	Outbound	1,561	1,511			
South Leg	**TOTAL**	**2,839**	**2,881**	**5%**	**5%**	**57,123**
East Leg	Inbound	1,852	1,193			
East Leg	Outbound	1,500	1,781			
East Leg	**TOTAL**	**3,352**	**2,974**	**6%**	**5%**	**56,642**
West Leg	Inbound	1,370	1,885			
West Leg	Outbound	1,120	1,060			
West Leg	**TOTAL**	**2,490**	**2,945**	**5%**	**6%**	**48,851**
OVERALL TOTAL		***12,542***	***12,304***	**6%**	***5%***	***226,887***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Euclid Av. (SR-83) & Eucalyptus Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	145	148	3	2%	88	77	-11	-13%
	Through	750	1,208	459	61%	918	1,360	442	48%
	Right	14	140	126	900%	19	23	4	21%
	NB Total	909	1,496	588	65%	1,025	1,460	435	42%
SOUTH BOUND	Left	27	276	249	922%	47	106	60	128%
	Through	976	1,451	475	49%	1,094	1,859	766	70%
	Right	35	37	2	6%	50	83	34	68%
	SB Total	1,038	1,764	726	70%	1,190	2,048	859	72%
EAST BOUND	Left	56	78	23	41%	35	48	14	39%
	Through	20	175	155	775%	130	146	17	13%
	Right	132	168	36	27%	182	153	-29	-16%
	EB Total	208	421	214	103%	346	347	2	0%
WEST BOUND	Left	28	41	13	46%	5	46	41	820%
	Through	137	141	4	3%	22	196	175	812%
	Right	36	58	23	63%	11	161	151	1433%
	WB Total	201	240	40	20%	37	403	366	989%
TOTAL ENTERING VOLUME		2,355	3,921	1566.5	67%	2,597	4,258	1661	64%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,764	2,048			
North Leg	Outbound	1,344	1,569			
North Leg	**TOTAL**	**3,108**	**3,617**	**5%**	**6%**	**57,123**
South Leg	Inbound	1,496	1,460			
South Leg	Outbound	1,660	2,058			
South Leg	**TOTAL**	**3,156**	**3,518**	**6%**	**7%**	**50,141**
East Leg	Inbound	240	403			
East Leg	Outbound	591	275			
East Leg	**TOTAL**	**831**	**678**	**5%**	**4%**	**16,985**
West Leg	Inbound	421	347			
West Leg	Outbound	326	356			
West Leg	**TOTAL**	**747**	**703**	**10%**	**10%**	**7,253**
OVERALL TOTAL		***7,842***	***8,516***	**6%**	***6%***	***131,502***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Euclid Av. (SR-83) & Merrill Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	12	41	29	242%	1	3	2	200%
	Through	754	1,479	726	96%	831	1,288	457	55%
	Right	122	601	480	395%	171	456	286	167%
	NB Total	887	2,121	1,234	139%	1,003	1,747	745	74%
SOUTH BOUND	Left	192	219	28	14%	228	123	-105	-46%
	Through	890	1,417	528	59%	1,043	2,010	968	93%
	Right	55	44	-11	-20%	10	7	-3	-26%
	SB Total	1,136	1,680	544	48%	1,280	2,140	860	67%
EAST BOUND	Left	7	2	-5	-69%	3	1	-2	-67%
	Through	5	4	-1	-11%	19	12	-7	-35%
	Right	4	4	1	14%	8	18	10	125%
	EB Total	15	10	-5	-31%	30	31	2	5%
WEST BOUND	Left	223	337	114	51%	128	702	575	451%
	Through	50	37	-13	-25%	0	0	0	#DIV/0!
	Right	149	64	-85	-57%	191	170	-21	-11%
	WB Total	421	438	17	4%	319	872	554	174%
TOTAL ENTERING VOLUME		2,459	4,249	1790.5	73%	2,631	4,790	2160	82%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,680	2,140			
North Leg	Outbound	1,545	1,459			
North Leg	**TOTAL**	**3,225**	**3,599**	**6%**	**7%**	**50,587**
South Leg	Inbound	2,121	1,747			
South Leg	Outbound	1,758	2,730			
South Leg	**TOTAL**	**3,879**	**4,477**	**7%**	**8%**	**59,653**
East Leg	Inbound	438	872			
East Leg	Outbound	824	591			
East Leg	**TOTAL**	**1,262**	**1,463**	**7%**	**8%**	**17,614**
West Leg	Inbound	10	31			
West Leg	Outbound	122	10			
West Leg	**TOTAL**	**132**	**41**	**#DIV/0!**	**#DIV/0!**	**-**
OVERALL TOTAL		***8,498***	***9,580***	***7%***	***7%***	***127,855***

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Project: Euclid Mixed-Use
Scenario: Horizon Year (2050) Without Project

Job #: 15045
Analyst: JB
Date: 1/10/23

LOCATION: Euclid Av. (SR-83) & Kimball Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	43	32	-11	-26%	59	75	16	27%
	Through	478	1,018	540	113%	483	987	505	105%
	Right	27	22	-5	-17%	161	170	9	6%
	NB Total	548	1,072	525	96%	703	1,232	530	75%
SOUTH BOUND	Left	139	203	65	47%	472	1,016	544	115%
	Through	566	998	432	76%	470	1,114	645	137%
	Right	373	483	111	30%	212	547	336	159%
	SB Total	1,077	1,684	607	56%	1,153	2,677	1,524	132%
EAST BOUND	Left	127	337	210	165%	320	563	244	76%
	Through	246	255	10	4%	819	747	-72	-9%
	Right	45	55	11	24%	31	31	0	0%
	EB Total	417	647	230	55%	1,169	1,341	172	15%
WEST BOUND	Left	90	117	28	31%	45	47	2	4%
	Through	944	906	-38	-4%	361	409	49	13%
	Right	290	805	515	178%	145	264	120	83%
	WB Total	1,323	1,828	505	38%	550	720	170	31%
TOTAL ENTERING VOLUME		3,365	5,231	1866.5	55%	3,575	5,970	2396	67%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,684	2,677			
North Leg	Outbound	2,160	1,814			
North Leg	**TOTAL**	**3,844**	**4,491**	**7%**	**8%**	**59,090**
South Leg	Inbound	1,072	1,232			
South Leg	Outbound	1,170	1,192			
South Leg	**TOTAL**	**2,242**	**2,424**	**5%**	**6%**	**42,876**
East Leg	Inbound	1,828	720			
East Leg	Outbound	480	1,933			
East Leg	**TOTAL**	**2,308**	**2,653**	**10%**	**11%**	**23,431**
West Leg	Inbound	647	1,341			
West Leg	Outbound	1,421	1,031			
West Leg	**TOTAL**	**2,068**	**2,372**	**8%**	**10%**	**24,846**
OVERALL TOTAL		***10,462***	***11,940***	***7%***	***8%***	***150,242***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Bon View Av. & Schaefer Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	17	36	19	112%	26	59	34	131%
	Through	100	153	54	54%	155	174	20	13%
	Right	14	30	17	122%	19	28	9	47%
	NB Total	130	219	89	68%	199	261	62	31%
SOUTH BOUND	Left	17	14	-3	-18%	16	11	-5	-29%
	Through	109	141	32	29%	84	121	38	45%
	Right	47	36	-11	-23%	18	19	1	6%
	SB Total	173	191	18	10%	117	151	34	29%
EAST BOUND	Left	17	19	2	12%	53	51	-2	-3%
	Through	93	148	55	59%	359	452	94	26%
	Right	9	23	14	156%	21	55	35	168%
	EB Total	119	190	71	60%	432	558	127	29%
WEST BOUND	Left	17	28	11	65%	8	24	17	220%
	Through	299	292	-7	-2%	80	192	112	140%
	Right	16	11	-5	-29%	13	15	2	15%
	WB Total	331	331	0	0%	101	231	131	130%
TOTAL ENTERING VOLUME		753	931	178	24%	848	1,201	353	42%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	191	151			
North Leg	Outbound	183	240			
North Leg	**TOTAL**	**374**	**391**	**33%**	**35%**	**1,118**
South Leg	Inbound	219	261			
South Leg	Outbound	192	200			
South Leg	**TOTAL**	**411**	**461**	**17%**	**19%**	**2,470**
East Leg	Inbound	331	231			
East Leg	Outbound	192	491			
East Leg	**TOTAL**	**523**	**722**	**12%**	**16%**	**4,460**
West Leg	Inbound	190	558			
West Leg	Outbound	364	270			
West Leg	**TOTAL**	**554**	**828**	**11%**	**16%**	**5,267**
OVERALL TOTAL		***1,862***	***2,402***	**14%**	***18%***	***13,314***

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Project: Euclid Mixed-Use
Scenario: Horizon Year (2050) Without Project

Job #: 15045
Analyst: JB
Date: 1/10/23

LOCATION: Bon View Av. & Edison Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	11	163	152	1382%	7	73	66	943%
	Through	80	192	113	142%	120	189	70	58%
	Right	5	38	33	660%	12	59	47	392%
	NB Total	96	393	298	312%	139	321	183	132%
SOUTH BOUND	Left	10	9	-1	-10%	18	15	-3	-17%
	Through	79	122	43	54%	72	149	77	107%
	Right	34	59	25	74%	22	37	16	72%
	SB Total	123	190	67	54%	112	201	90	80%
EAST BOUND	Left	38	60	23	60%	59	71	12	20%
	Through	243	1,229	987	407%	513	1,934	1,421	277%
	Right	16	137	122	784%	23	218	196	869%
	EB Total	296	1,426	1,131	383%	595	2,223	1,629	274%
WEST BOUND	Left	7	21	15	223%	6	28	23	409%
	Through	429	1,543	1,115	260%	194	817	624	322%
	Right	30	17	-13	-42%	16	10	-6	-35%
	WB Total	465	1,581	1,117	240%	215	855	641	299%
TOTAL ENTERING VOLUME		979	3,590	2611.5	267%	1,059	3,600	2541	240%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	190	201			
North Leg	Outbound	269	270			
North Leg	**TOTAL**	**459**	**471**	**15%**	**15%**	**3,040**
South Leg	Inbound	393	321			
South Leg	Outbound	280	395			
South Leg	**TOTAL**	**673**	**716**	**9%**	**9%**	**7,694**
East Leg	Inbound	1,581	855			
East Leg	Outbound	1,276	2,008			
East Leg	**TOTAL**	**2,857**	**2,863**	**6%**	**6%**	**51,369**
West Leg	Inbound	1,426	2,223			
West Leg	Outbound	1,765	927			
West Leg	**TOTAL**	**3,191**	**3,150**	**6%**	**5%**	**57,797**
OVERALL TOTAL		***7,180***	***7,200***	**6%**	***6%***	***119,900***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Grove Av. & Schaefer Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	36	54	18	50%	22	43	21	95%
	Through	302	618	316	105%	308	550	242	79%
	Right	9	23	14	156%	31	55	25	80%
	NB Total	347	695	348	100%	361	648	288	80%
SOUTH BOUND	Left	31	58	28	90%	56	132	77	138%
	Through	196	418	223	114%	119	474	355	298%
	Right	47	51	5	10%	30	77	48	161%
	SB Total	273	527	255	93%	204	683	479	235%
EAST BOUND	Left	38	48	11	28%	108	117	9	8%
	Through	79	128	49	62%	192	208	17	9%
	Right	23	41	19	82%	91	166	75	82%
	EB Total	139	217	78	56%	391	491	101	26%
WEST BOUND	Left	30	51	22	73%	2	7	5	250%
	Through	240	214	-26	-11%	54	122	68	126%
	Right	53	64	12	22%	45	91	47	104%
	WB Total	322	329	8	2%	101	220	120	119%
TOTAL ENTERING VOLUME		1,080	1,768	688	64%	1,056	2,042	987	93%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	527	683			
North Leg	Outbound	730	758			
North Leg	**TOTAL**	**1,257**	**1,441**	**10%**	**12%**	**12,074**
South Leg	Inbound	695	648			
South Leg	Outbound	510	647			
South Leg	**TOTAL**	**1,205**	**1,295**	**11%**	**12%**	**11,037**
East Leg	Inbound	329	220			
East Leg	Outbound	209	395			
East Leg	**TOTAL**	**538**	**615**	**10%**	**12%**	**5,206**
West Leg	Inbound	217	491			
West Leg	Outbound	319	242			
West Leg	**TOTAL**	**536**	**733**	**12%**	**16%**	**4,460**
OVERALL TOTAL		***3,536***	***4,084***	**11%**	***12%***	***32,777***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Grove Av. & Edison Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	36	139	104	292%	6	28	22	367%
	Through	216	385	169	78%	267	475	208	78%
	Right	6	16	10	167%	53	166	113	213%
	NB Total	258	540	283	110%	326	669	343	105%
SOUTH BOUND	Left	40	62	22	55%	48	150	102	213%
	Through	189	383	195	103%	145	403	258	178%
	Right	38	85	47	124%	24	112	88	367%
	SB Total	267	530	264	99%	217	665	448	206%
EAST BOUND	Left	55	224	170	311%	48	109	61	127%
	Through	215	1,337	1,122	522%	475	1,895	1,421	299%
	Right	18	144	127	723%	14	48	35	256%
	EB Total	287	1,705	1,418	494%	536	2,052	1,516	283%
WEST BOUND	Left	29	99	71	247%	7	19	12	171%
	Through	386	1,482	1,097	284%	196	880	684	349%
	Right	59	103	44	75%	33	55	23	69%
	WB Total	473	1,684	1,211	256%	236	954	719	305%
TOTAL ENTERING VOLUME		1,284	4,459	3175	247%	1,315	4,340	3026	230%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	530	665			
North Leg	Outbound	712	639			
North Leg	**TOTAL**	**1,242**	**1,304**	**11%**	**12%**	**11,037**
South Leg	Inbound	540	669			
South Leg	Outbound	626	470			
South Leg	**TOTAL**	**1,166**	**1,139**	**9%**	**9%**	**12,295**
East Leg	Inbound	1,684	954			
East Leg	Outbound	1,415	2,211			
East Leg	**TOTAL**	**3,099**	**3,165**	**5%**	**5%**	**58,933**
West Leg	Inbound	1,705	2,052			
West Leg	Outbound	1,706	1,020			
West Leg	**TOTAL**	**3,411**	**3,072**	**6%**	**5%**	**58,315**
OVERALL TOTAL		***8,918***	***8,680***	**6%**	***6%***	***140,580***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Walker Av. & Edison Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	11	29	19	176%	1	1	0	0%
	Through	98	170	73	74%	92	56	-36	-39%
	Right	41	245	205	505%	121	249	128	106%
	NB Total	149	444	296	199%	214	306	92	43%
SOUTH BOUND	Left	64	201	137	214%	152	191	40	26%
	Through	57	89	33	58%	51	143	93	183%
	Right	39	55	16	41%	17	6	-11	-65%
	SB Total	160	345	186	116%	219	340	121	55%
EAST BOUND	Left	30	48	19	63%	19	23	5	24%
	Through	205	1,145	941	460%	539	2,200	1,661	308%
	Right	1	3	2	200%	3	28	25	833%
	EB Total	235	1,196	961	409%	561	2,251	1,691	302%
WEST BOUND	Left	65	268	203	312%	8	267	259	3238%
	Through	431	1,596	1,166	271%	210	912	702	334%
	Right	102	242	141	138%	64	284	220	344%
	WB Total	597	2,106	1,509	253%	282	1,463	1,181	419%
TOTAL ENTERING VOLUME		1,140	4,091	2951	259%	1,276	4,360	3085	242%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	345	340			
North Leg	Outbound	460	363			
North Leg	**TOTAL**	**805**	**703**	**9%**	**8%**	**8,987**
South Leg	Inbound	444	306			
South Leg	Outbound	360	438			
South Leg	**TOTAL**	**804**	**744**	**7%**	**6%**	**11,460**
East Leg	Inbound	2,106	1,463			
East Leg	Outbound	1,591	2,640			
East Leg	**TOTAL**	**3,697**	**4,103**	**6%**	**7%**	**60,317**
West Leg	Inbound	1,196	2,251			
West Leg	Outbound	1,680	919			
West Leg	**TOTAL**	**2,876**	**3,170**	**5%**	**6%**	**56,537**
OVERALL TOTAL		***8,182***	***8,720***	**6%**	***6%***	***137,301***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Vineyard Av. & Edison Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	34	52	19	55%	16	24	8	50%
	Through	129	110	-19	-15%	11	12	1	9%
	Right	34	48	14	41%	27	35	8	30%
	NB Total	197	210	14	7%	54	71	17	31%
SOUTH BOUND	Left	53	86	33	62%	41	63	22	54%
	Through	64	49	-15	-23%	28	21	-7	-24%
	Right	19	34	15	79%	9	16	7	78%
	SB Total	136	169	34	25%	78	100	23	29%
EAST BOUND	Left	32	59	28	87%	16	35	19	119%
	Through	471	1,450	980	208%	929	2,463	1,535	165%
	Right	15	22	7	47%	44	57	14	31%
	EB Total	517	1,531	1,014	196%	988	2,555	1,567	159%
WEST BOUND	Left	52	69	17	33%	55	72	18	32%
	Through	686	2,119	1,434	209%	629	1,950	1,321	210%
	Right	24	41	17	71%	25	54	30	120%
	WB Total	762	2,229	1,468	193%	708	2,076	1,368	193%
TOTAL ENTERING VOLUME		1,611	4,139	2528.5	157%	1,828	4,802	2975	163%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	169	100			
North Leg	Outbound	210	101			
North Leg	**TOTAL**	**379**	**201**	**23%**	**12%**	**1,680**
South Leg	Inbound	210	71			
South Leg	Outbound	140	150			
South Leg	**TOTAL**	**350**	**221**	**55%**	**35%**	**634**
East Leg	Inbound	2,229	2,076			
East Leg	Outbound	1,584	2,561			
East Leg	**TOTAL**	**3,813**	**4,637**	**7%**	**9%**	**53,720**
West Leg	Inbound	1,531	2,555			
West Leg	Outbound	2,205	1,990			
West Leg	**TOTAL**	**3,736**	**4,545**	**7%**	**8%**	**53,680**
OVERALL TOTAL		***8,278***	***9,604***	***8%***	***9%***	***109,713***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Hellman Av. & Edison Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	34	77	44	130%	16	94	78	488%
	Through	129	164	35	27%	11	31	20	182%
	Right	34	121	87	256%	27	272	245	907%
	NB Total	197	362	166	84%	54	397	343	635%
SOUTH BOUND	Left	53	64	11	21%	41	127	86	210%
	Through	64	92	29	45%	28	61	34	122%
	Right	19	15	-4	-21%	9	16	7	78%
	SB Total	136	171	36	26%	78	204	127	163%
EAST BOUND	Left	32	35	4	11%	16	12	-4	-25%
	Through	471	1,485	1,015	216%	929	2,541	1,613	174%
	Right	15	57	42	280%	44	85	42	95%
	EB Total	517	1,577	1,060	205%	988	2,638	1,650	167%
WEST BOUND	Left	52	301	249	479%	55	204	150	274%
	Through	686	2,118	1,433	209%	629	1,900	1,271	202%
	Right	24	41	17	71%	25	36	12	47%
	WB Total	762	2,460	1,699	223%	708	2,140	1,432	202%
TOTAL ENTERING VOLUME		1,611	4,570	2959.5	184%	1,828	5,379	3552	194%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	171	204			
North Leg	Outbound	240	79			
North Leg	**TOTAL**	**411**	**283**	**14%**	**9%**	**2,983**
South Leg	Inbound	362	397			
South Leg	Outbound	450	350			
South Leg	**TOTAL**	**812**	**747**	**7%**	**7%**	**11,032**
East Leg	Inbound	2,460	2,140			
East Leg	Outbound	1,670	2,940			
East Leg	**TOTAL**	**4,130**	**5,080**	**7%**	**8%**	**61,716**
West Leg	Inbound	1,577	2,638			
West Leg	Outbound	2,210	2,010			
West Leg	**TOTAL**	**3,787**	**4,648**	**7%**	**9%**	**54,021**
OVERALL TOTAL		***9,140***	***10,758***	***7%***	***8%***	***129,753***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Archibald Av. & Edison Av.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	167	496	330	198%	95	474	379	399%
	Through	1,045	1,029	-16	-2%	744	762	18	2%
	Right	280	933	654	234%	293	554	261	89%
	NB Total	1,491	2,458	967	65%	1,132	1,790	658	58%
SOUTH BOUND	Left	90	169	79	88%	147	236	90	61%
	Through	499	538	40	8%	753	1,049	297	39%
	Right	62	103	42	67%	60	255	195	325%
	SB Total	650	810	160	25%	959	1,540	581	61%
EAST BOUND	Left	35	53	19	54%	95	182	87	92%
	Through	129	672	543	421%	508	1,795	1,288	254%
	Right	65	194	129	198%	265	811	546	206%
	EB Total	229	919	691	302%	868	2,788	1,921	221%
WEST BOUND	Left	242	584	343	142%	243	575	333	137%
	Through	312	1,175	863	277%	176	1,270	1,095	624%
	Right	106	132	26	25%	106	157	52	49%
	WB Total	660	1,891	1,232	187%	524	2,002	1,479	282%
TOTAL ENTERING VOLUME		3,029	6,078	3049	101%	3,482	8,120	4638	133%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	810	1,540			
North Leg	Outbound	1,214	1,101			
North Leg	**TOTAL**	**2,024**	**2,641**	**8%**	**11%**	**24,202**
South Leg	Inbound	2,458	1,790			
South Leg	Outbound	1,316	2,435			
South Leg	**TOTAL**	**3,774**	**4,225**	**10%**	**12%**	**36,457**
East Leg	Inbound	1,891	2,002			
East Leg	Outbound	1,774	2,585			
East Leg	**TOTAL**	**3,665**	**4,587**	**7%**	**8%**	**55,735**
West Leg	Inbound	919	2,788			
West Leg	Outbound	1,774	1,999			
West Leg	**TOTAL**	**2,693**	**4,787**	**5%**	**8%**	**56,453**
OVERALL TOTAL		***12,156***	***16,240***	***7%***	***9%***	***172,847***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Turner Av. & Ontario Ranch Rd.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	34	44	11	31%	16	16	0	0%
	Through	129	130	1	1%	11	21	10	91%
	Right	34	25	-9	-26%	27	13	-14	-52%
	NB Total	197	199	3	1%	54	50	-4	-7%
SOUTH BOUND	Left	53	215	162	306%	41	160	119	290%
	Through	64	86	23	35%	28	46	19	67%
	Right	19	136	117	616%	9	71	62	689%
	SB Total	136	437	302	223%	78	277	200	257%
EAST BOUND	Left	32	141	110	348%	16	156	140	875%
	Through	471	1,564	1,094	232%	929	2,326	1,398	151%
	Right	15	17	2	13%	44	47	4	8%
	EB Total	517	1,722	1,205	233%	988	2,529	1,541	156%
WEST BOUND	Left	52	27	-25	-48%	55	38	-17	-30%
	Through	686	1,894	1,209	176%	629	2,043	1,414	225%
	Right	24	50	26	108%	25	153	129	524%
	WB Total	762	1,971	1,210	159%	708	2,234	1,526	216%
TOTAL ENTERING VOLUME		1,611	4,329	2718.5	169%	1,828	5,090	3263	179%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	437	277			
North Leg	Outbound	321	330			
North Leg	**TOTAL**	**758**	**607**	**9%**	**8%**	**8,022**
South Leg	Inbound	199	50			
South Leg	Outbound	130	131			
South Leg	**TOTAL**	**329**	**181**	**#DIV/0!**	**#DIV/0!**	**-**
East Leg	Inbound	1,971	2,234			
East Leg	Outbound	1,804	2,499			
East Leg	**TOTAL**	**3,775**	**4,733**	**7%**	**9%**	**54,034**
West Leg	Inbound	1,722	2,529			
West Leg	Outbound	2,074	2,130			
West Leg	**TOTAL**	**3,796**	**4,659**	**7%**	**8%**	**55,735**
OVERALL TOTAL		***8,658***	***10,180***	***7%***	***9%***	***117,791***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Haven Av. & Ontario Ranch Rd.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	36	101	65	181%	18	85	68	386%
	Through	288	344	56	19%	179	407	228	127%
	Right	113	175	62	55%	68	116	48	71%
	NB Total	437	620	183	42%	265	608	344	130%
SOUTH BOUND	Left	195	446	252	129%	196	257	61	31%
	Through	184	437	253	138%	306	441	136	44%
	Right	52	217	165	317%	47	173	127	272%
	SB Total	431	1,100	670	156%	548	871	323	59%
EAST BOUND	Left	113	253	141	125%	143	455	312	218%
	Through	552	1,605	1,054	191%	787	1,884	1,097	139%
	Right	17	51	34	200%	35	91	57	164%
	EB Total	681	1,909	1,228	180%	965	2,430	1,466	152%
WEST BOUND	Left	74	107	33	45%	221	264	44	20%
	Through	512	1,293	782	153%	611	1,879	1,269	208%
	Right	151	162	11	7%	192	277	85	44%
	WB Total	737	1,562	826	112%	1,023	2,420	1,397	137%
TOTAL ENTERING VOLUME		2,285	5,191	2906	127%	2,800	6,329	3529	126%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,100	871			
North Leg	Outbound	759	1,139			
North Leg	**TOTAL**	**1,859**	**2,010**	**8%**	**8%**	**23,691**
South Leg	Inbound	620	608			
South Leg	Outbound	595	796			
South Leg	**TOTAL**	**1,215**	**1,404**	**13%**	**16%**	**9,052**
East Leg	Inbound	1,562	2,420			
East Leg	Outbound	2,226	2,257			
East Leg	**TOTAL**	**3,788**	**4,677**	**8%**	**10%**	**47,309**
West Leg	Inbound	1,909	2,430			
West Leg	Outbound	1,611	2,137			
West Leg	**TOTAL**	**3,520**	**4,567**	**7%**	**8%**	**54,034**
OVERALL TOTAL		***10,382***	***12,658***	***8%***	***9%***	***134,086***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: Hamner Av. & Ontario Ranch Rd.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	156	309	154	99%	298	343	45	15%
	Through	586	794	209	36%	356	372	16	4%
	Right	310	196	-114	-37%	293	106	-187	-64%
	NB Total	1,051	1,299	248	24%	947	821	-126	-13%
SOUTH BOUND	Left	169	377	208	123%	240	641	401	167%
	Through	182	203	21	12%	499	836	337	68%
	Right	73	511	438	600%	90	763	673	748%
	SB Total	424	1,091	667	157%	829	2,240	1,411	170%
EAST BOUND	Left	138	835	698	507%	126	908	782	621%
	Through	578	1,637	1,060	183%	655	1,638	983	150%
	Right	72	101	30	41%	254	398	144	57%
	EB Total	787	2,573	1,787	227%	1,035	2,944	1,909	184%
WEST BOUND	Left	240	87	-153	-64%	371	190	-181	-49%
	Through	646	1,470	825	128%	684	1,771	1,088	159%
	Right	244	379	135	55%	151	354	204	135%
	WB Total	1,130	1,936	807	71%	1,205	2,315	1,110	92%
TOTAL ENTERING VOLUME		3,391	6,899	3508	103%	4,016	8,320	4304	107%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,091	2,240			
North Leg	Outbound	2,008	1,634			
North Leg	**TOTAL**	**3,099**	**3,874**	**6%**	**8%**	**48,295**
South Leg	Inbound	1,299	821			
South Leg	Outbound	391	1,424			
South Leg	**TOTAL**	**1,690**	**2,245**	**10%**	**14%**	**16,276**
East Leg	Inbound	1,936	2,315			
East Leg	Outbound	2,210	2,385			
East Leg	**TOTAL**	**4,146**	**4,700**	**8%**	**9%**	**53,422**
West Leg	Inbound	2,573	2,944			
West Leg	Outbound	2,290	2,877			
West Leg	**TOTAL**	**4,863**	**5,821**	**9%**	**10%**	**55,493**
OVERALL TOTAL		***13,798***	***16,640***	***8%***	***10%***	***173,486***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: I-15 SB Ramps & Cantu Galleano Rd.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Through	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Right	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	NB Total	0	0	0	#DIV/0!	0	0	0	#DIV/0!
SOUTH BOUND	Left	266	176	-90	-34%	301	308	8	2%
	Through	0	0	0	#DIV/0!	1	1	0	0%
	Right	944	1,669	725	77%	1,170	1,624	455	39%
	SB Total	1,210	1,845	636	53%	1,471	1,933	462	31%
EAST BOUND	Left	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Through	812	1,564	752	93%	1,130	2,032	902	80%
	Right	308	310	3	1%	329	329	0	0%
	EB Total	1,120	1,874	755	67%	1,459	2,361	902	62%
WEST BOUND	Left	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Through	679	751	73	11%	601	1,246	645	107%
	Right	171	430	259	151%	140	580	441	316%
	WB Total	850	1,181	332	39%	741	1,826	1,086	147%
TOTAL ENTERING VOLUME		3,179	4,900	1721.5	54%	3,671	6,120	2450	67%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	1,845	1,933			
North Leg	Outbound	430	580			
North Leg	**TOTAL**	**2,275**	**2,513**	**16%**	**17%**	**14,507**
South Leg	Inbound	0	0			
South Leg	Outbound	310	330			
South Leg	**TOTAL**	**310**	**330**	**#DIV/0!**	**#DIV/0!**	**-**
East Leg	Inbound	1,181	1,826			
East Leg	Outbound	1,740	2,340			
East Leg	**TOTAL**	**2,921**	**4,166**	**9%**	**12%**	**33,451**
West Leg	Inbound	1,874	2,361			
West Leg	Outbound	2,420	2,870			
West Leg	**TOTAL**	**4,294**	**5,231**	**9%**	**11%**	**45,895**
OVERALL TOTAL		***9,800***	***12,240***	**10%**	***13%***	***93,853***

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Project:	Euclid Mixed-Use	Job #:	15045
Scenario:	Horizon Year (2050) Without Project	Analyst:	JB
		Date:	1/10/23

LOCATION: I-15 NB Ramps & Cantu Galleano Rd.
FORECAST YEAR: 2050

INDIVIDUAL TURN VOLUME GROWTH REVIEW

		AM PEAK HOUR INPUT DATA				PM PEAK HOUR INPUT DATA			
APPROACH	TURNING MOVEMENT	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE	EXISTING COUNT	FUTURE VOLUME	DIFF-ERENCE	% CHANGE
NORTH BOUND	Left	448	649	202	45%	347	1,035	688	198%
	Through	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Right	377	544	167	44%	154	157	4	2%
	NB Total	825	1,193	369	45%	501	1,192	692	138%
SOUTH BOUND	Left	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Through	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Right	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	SB Total	0	0	0	#DIV/0!	0	0	0	#DIV/0!
EAST BOUND	Left	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	Through	399	576	177	44%	710	825	115	16%
	Right	679	1,169	491	72%	721	1,496	776	108%
	EB Total	1,078	1,745	668	62%	1,431	2,321	891	62%
WEST BOUND	Left	194	281	88	45%	219	258	40	18%
	Through	402	491	89	22%	394	759	366	93%
	Right	0	0	0	#DIV/0!	0	0	0	#DIV/0!
	WB Total	596	772	177	30%	612	1,017	405	66%
TOTAL ENTERING VOLUME		2,498	3,710	1212.5	49%	2,543	4,530	1987	78%

FORECAST PEAK HOUR TO ADT COMPARISON

		VOLUMES		PERCENT OF ADT		
		AM	PM	AM	PM	ADT
North Leg	Inbound	0	0			
North Leg	Outbound	0	0			
North Leg	**TOTAL**	**0**	**0**	**#DIV/0!**	**#DIV/0!**	**-**
South Leg	Inbound	1,193	1,192			
South Leg	Outbound	1,450	1,754			
South Leg	**TOTAL**	**2,643**	**2,946**	**9%**	**10%**	**28,937**
East Leg	Inbound	772	1,017			
East Leg	Outbound	1,120	982			
East Leg	**TOTAL**	**1,892**	**1,999**	**16%**	**17%**	**11,644**
West Leg	Inbound	1,745	2,321			
West Leg	Outbound	1,140	1,794			
West Leg	**TOTAL**	**2,885**	**4,115**	**8%**	**12%**	**34,283**
OVERALL TOTAL		***7,420***	***9,060***	**10%**	***12%***	***74,864***

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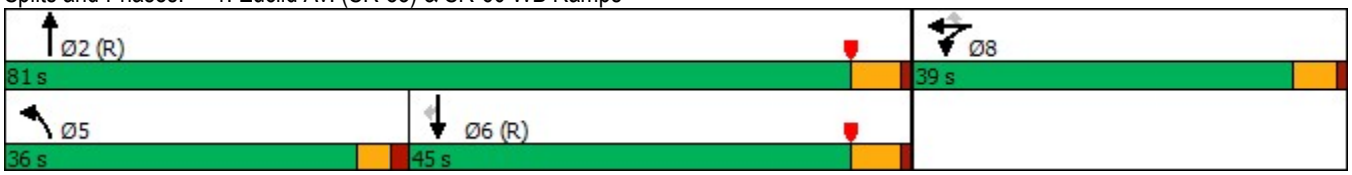
APPENDIX 5.1: E+P CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

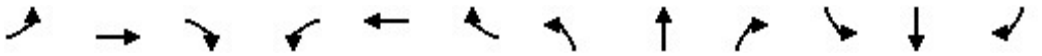
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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	599	7	368	363	864	891	351
Future Volume (vph)	599	7	368	363	864	891	351
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5	22.5
Total Split (s)	39.0	39.0	39.0	36.0	81.0	45.0	45.0
Total Split (%)	32.5%	32.5%	32.5%	30.0%	67.5%	37.5%	37.5%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5	5.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min
Act Effct Green (s)	29.8	29.8	29.8	28.7	79.7	46.5	46.5
Actuated g/C Ratio	0.25	0.25	0.25	0.24	0.66	0.39	0.39
v/c Ratio	0.85	0.88	0.66	0.90	0.39	0.68	0.44
Control Delay	61.3	64.1	26.9	75.6	9.4	35.4	5.1
Queue Delay	0.4	0.4	0.0	0.0	0.2	0.0	0.0
Total Delay	61.7	64.5	26.9	75.6	9.6	35.4	5.1
LOS	E	E	C	E	A	D	A
Approach Delay		51.7			29.1	26.9	
Approach LOS		D			C	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 75	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.90	
Intersection Signal Delay: 34.7	Intersection LOS: C
Intersection Capacity Utilization 102.1%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	599	7	368	363	864	0	0	891	351
Future Volume (veh/h)	0	0	0	599	7	368	363	864	0	0	891	351
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				717	0	153	390	929	0	0	958	210
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				797	0	355	410	2499	0	0	1547	690
Arrive On Green				0.22	0.00	0.22	0.45	1.00	0.00	0.00	0.43	0.43
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				717	0	153	390	929	0	0	958	210
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				23.1	0.0	9.8	24.9	0.0	0.0	0.0	24.8	10.3
Cycle Q Clear(g_c), s				23.1	0.0	9.8	24.9	0.0	0.0	0.0	24.8	10.3
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				797	0	355	410	2499	0	0	1547	690
V/C Ratio(X)				0.90	0.00	0.43	0.95	0.37	0.00	0.00	0.62	0.30
Avail Cap(c_a), veh/h				1025	0	456	475	2499	0	0	1547	690
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.65	0.65	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				45.5	0.0	40.3	32.2	0.0	0.0	0.0	26.7	22.5
Incr Delay (d2), s/veh				7.7	0.0	0.3	19.8	0.3	0.0	0.0	1.9	1.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				10.9	0.0	3.8	10.2	0.1	0.0	0.0	10.6	4.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				53.2	0.0	40.6	52.0	0.3	0.0	0.0	28.6	23.7
LnGrp LOS				D	A	D	D	A	A	A	C	C
Approach Vol, veh/h					870			1319			1168	
Approach Delay, s/veh					51.0			15.6			27.7	
Approach LOS					D			B			C	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	88.6		31.7	56.9		31.4						
Change Period (Y+Rc), s	5.5		4.5	5.5		5.0						
Max Green Setting (Gmax), s	75.5		31.5	39.5		34.0						
Max Q Clear Time (g_c+I1), s	2.0		26.9	26.8		25.1						
Green Ext Time (p_c), s	11.9		0.3	7.3		1.3						

Intersection Summary		
HCM 6th Ctrl Delay	29.0	
HCM 6th LOS	C	

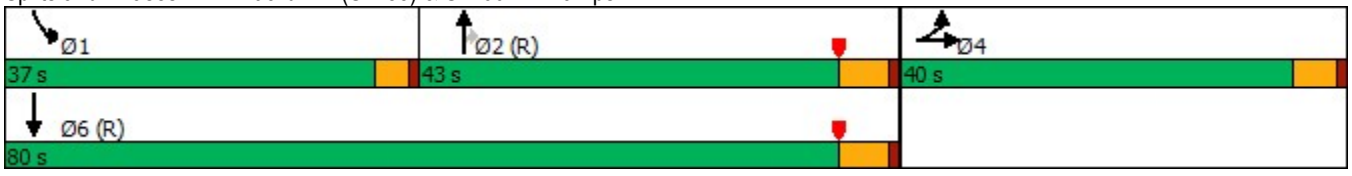
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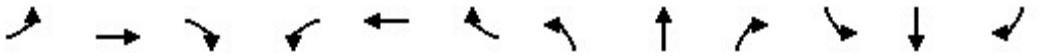
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	387	0	842	721	373	1117
Future Volume (vph)	387	0	842	721	373	1117
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	40.0	40.0	43.0	43.0	37.0	80.0
Total Split (%)	33.3%	33.3%	35.8%	35.8%	30.8%	66.7%
Yellow Time (s)	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	34.2	34.2	42.4	42.4	28.9	75.3
Actuated g/C Ratio	0.28	0.28	0.35	0.35	0.24	0.63
v/c Ratio	0.73	0.98	0.68	0.77	0.89	0.51
Control Delay	48.7	69.6	37.4	11.6	75.5	14.9
Queue Delay	0.7	9.7	0.0	0.0	0.2	0.4
Total Delay	49.4	79.3	37.4	11.6	75.7	15.3
LOS	D	E	D	B	E	B
Approach Delay		66.7	25.5			30.5
Approach LOS		E	C			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 65	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.98	
Intersection Signal Delay: 36.2	Intersection LOS: D
Intersection Capacity Utilization 102.1%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	387	0	442	0	0	0	0	842	721	373	1117	0
Future Volume (veh/h)	387	0	442	0	0	0	0	842	721	373	1117	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	388	16	377				0	868	548	385	1152	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	474	17	407				0	1419	617	405	2348	0
Arrive On Green	0.26	0.26	0.26				0.00	0.39	0.39	0.45	1.00	0.00
Sat Flow, veh/h	1810	66	1554				0	3705	1568	1810	3705	0
Grp Volume(v), veh/h	388	0	393				0	868	548	385	1152	0
Grp Sat Flow(s),veh/h/ln	1810	0	1620				0	1805	1568	1810	1805	0
Q Serve(g_s), s	24.2	0.0	28.4				0.0	23.1	39.1	24.5	0.0	0.0
Cycle Q Clear(g_c), s	24.2	0.0	28.4				0.0	23.1	39.1	24.5	0.0	0.0
Prop In Lane	1.00		0.96				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	474	0	424				0	1419	617	405	2348	0
V/C Ratio(X)	0.82	0.00	0.93				0.00	0.61	0.89	0.95	0.49	0.00
Avail Cap(c_a), veh/h	528	0	473				0	1419	617	498	2348	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.72	0.72	0.61	0.61	0.00
Uniform Delay (d), s/veh	41.6	0.0	43.1				0.0	29.1	34.0	32.5	0.0	0.0
Incr Delay (d2), s/veh	8.0	0.0	22.0				0.0	1.4	13.3	17.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.4	0.0	13.5				0.0	9.9	16.5	9.8	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.6	0.0	65.2				0.0	30.5	47.2	49.5	0.4	0.0
LnGrp LOS	D	A	E				A	C	D	D	A	A
Approach Vol, veh/h		781						1416			1537	
Approach Delay, s/veh		57.4						37.0			12.7	
Approach LOS		E						D			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	30.9	52.7		36.4		83.6
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	33.0	37.5		35.0		74.5
Max Q Clear Time (g_c+I1), s	26.5	41.1		30.4		2.0
Green Ext Time (p_c), s	0.4	0.0		1.1		16.9

Intersection Summary		
HCM 6th Ctrl Delay		31.3
HCM 6th LOS		C

Notes

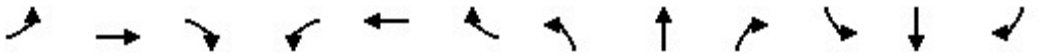
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	95	245	91	371	97	1294	33	178	1204	57
Future Volume (vph)	95	245	91	371	97	1294	33	178	1204	57
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	10.0	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	9.6	29.8	9.6	29.8	9.6	27.4	27.4	9.6	29.4	29.4
Total Split (s)	21.0	34.6	17.4	31.0	23.0	50.6	50.6	17.4	45.0	45.0
Total Split (%)	17.5%	28.8%	14.5%	25.8%	19.2%	42.2%	42.2%	14.5%	37.5%	37.5%
Yellow Time (s)	3.6	4.8	3.6	4.8	3.6	4.4	4.4	3.6	4.4	4.4
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	4.6	5.4	5.4	4.6	5.4	5.4
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	11.0	24.4	10.1	21.1	11.2	45.6	45.6	10.6	45.0	45.0
Actuated g/C Ratio	0.10	0.22	0.09	0.19	0.10	0.42	0.42	0.10	0.41	0.41
v/c Ratio	0.60	0.48	0.63	0.81	0.61	0.65	0.05	0.64	0.61	0.08
Control Delay	64.0	33.5	68.2	48.9	63.4	28.4	0.1	59.2	28.4	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	64.0	33.5	68.2	48.9	63.4	28.4	0.1	59.2	28.4	0.2
LOS	E	C	E	D	E	C	A	E	C	A
Approach Delay		39.8		51.8		30.1			31.1	
Approach LOS		D		D		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 108.8	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.81	
Intersection Signal Delay: 35.0	Intersection LOS: C
Intersection Capacity Utilization 71.7%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	95	245	118	91	371	155	97	1294	33	178	1204	57
Future Volume (veh/h)	95	245	118	91	371	155	97	1294	33	178	1204	57
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	98	253	86	94	382	130	100	1334	21	184	1241	41
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	121	481	159	116	471	158	124	2221	689	242	2247	697
Arrive On Green	0.07	0.19	0.19	0.07	0.19	0.19	0.08	0.45	0.45	0.08	0.46	0.46
Sat Flow, veh/h	1619	2523	837	1619	2512	843	1619	4914	1524	2956	4914	1524
Grp Volume(v), veh/h	98	169	170	94	258	254	100	1334	21	184	1241	41
Grp Sat Flow(s),veh/h/ln	1619	1710	1649	1619	1710	1645	1619	1638	1524	1478	1638	1524
Q Serve(g_s), s	6.0	8.9	9.3	5.7	14.5	14.8	6.1	20.4	0.8	6.1	18.3	1.5
Cycle Q Clear(g_c), s	6.0	8.9	9.3	5.7	14.5	14.8	6.1	20.4	0.8	6.1	18.3	1.5
Prop In Lane	1.00		0.51	1.00		0.51	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	121	326	314	116	321	308	124	2221	689	242	2247	697
V/C Ratio(X)	0.81	0.52	0.54	0.81	0.81	0.82	0.81	0.60	0.03	0.76	0.55	0.06
Avail Cap(c_a), veh/h	265	492	475	207	431	414	298	2221	689	378	2247	697
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.6	36.4	36.5	45.7	38.9	39.0	45.5	20.6	15.2	45.0	19.7	15.1
Incr Delay (d2), s/veh	4.7	1.3	1.4	4.9	8.0	9.4	4.7	1.2	0.1	1.9	1.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	3.7	3.7	2.4	6.5	6.5	2.5	7.5	0.3	2.2	6.7	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.3	37.7	38.0	50.7	46.9	48.5	50.1	21.8	15.3	46.8	20.7	15.3
LnGrp LOS	D	D	D	D	D	D	D	C	B	D	C	B
Approach Vol, veh/h		437			606			1455			1466	
Approach Delay, s/veh		40.6			48.1			23.7			23.8	
Approach LOS		D			D			C			C	

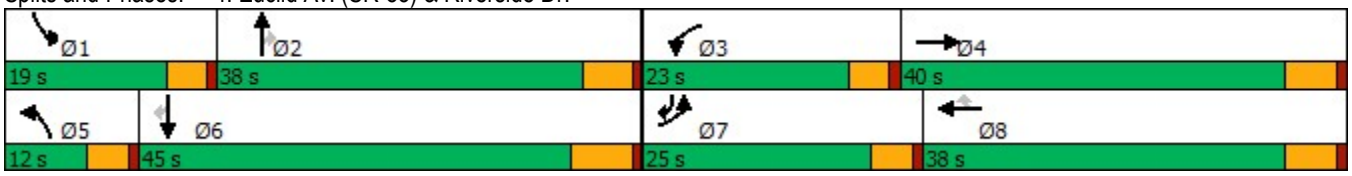
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.8	50.6	11.8	24.9	12.2	51.1	12.1	24.6
Change Period (Y+Rc), s	4.6	5.4	4.6	5.8	4.6	5.4	4.6	5.8
Max Green Setting (Gmax), s	12.8	45.2	12.8	28.8	18.4	39.6	16.4	25.2
Max Q Clear Time (g_c+I1), s	8.1	22.4	7.7	11.3	8.1	20.3	8.0	16.8
Green Ext Time (p_c), s	0.1	9.9	0.0	1.6	0.1	8.5	0.1	1.8

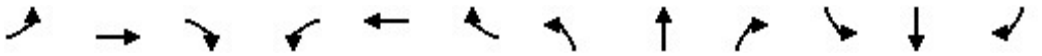
Intersection Summary	
HCM 6th Ctrl Delay	29.3
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	167	324	199	458	98	45	917	82	220	1084	119
Future Volume (vph)	167	324	199	458	98	45	917	82	220	1084	119
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	25.0	40.0	23.0	38.0	38.0	12.0	38.0	38.0	19.0	45.0	25.0
Total Split (%)	20.8%	33.3%	19.2%	31.7%	31.7%	10.0%	31.7%	31.7%	15.8%	37.5%	20.8%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	15.6	28.7	16.7	29.7	29.7	6.6	32.8	32.8	14.5	41.7	63.8
Actuated g/C Ratio	0.14	0.25	0.15	0.26	0.26	0.06	0.29	0.29	0.13	0.37	0.56
v/c Ratio	0.77	0.87	0.86	0.52	0.20	0.49	0.94	0.15	1.09	0.88	0.13
Control Delay	69.6	59.8	79.0	38.2	1.7	71.3	58.6	0.6	135.1	44.8	2.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	69.6	59.8	79.0	38.2	1.7	71.3	58.6	0.6	135.1	44.8	2.7
LOS	E	E	E	D	A	E	E	A	F	D	A
Approach Delay		62.7		44.2			54.6			55.2	
Approach LOS		E		D			D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 113.1	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.09	
Intersection Signal Delay: 53.9	Intersection LOS: D
Intersection Capacity Utilization 91.4%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	167	324	58	199	458	98	45	917	82	220	1084	119
Future Volume (veh/h)	167	324	58	199	458	98	45	917	82	220	1084	119
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	170	331	32	203	467	48	46	936	42	224	1106	66
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	197	372	36	230	857	376	57	1007	449	216	1344	786
Arrive On Green	0.12	0.23	0.23	0.14	0.25	0.25	0.04	0.29	0.29	0.13	0.39	0.39
Sat Flow, veh/h	1619	1614	156	1619	3420	1503	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	170	0	363	203	467	48	46	936	42	224	1106	66
Grp Sat Flow(s),veh/h/ln	1619	0	1770	1619	1710	1503	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	11.1	0.0	21.4	13.3	12.8	2.7	3.0	28.7	2.2	14.4	31.3	2.4
Cycle Q Clear(g_c), s	11.1	0.0	21.4	13.3	12.8	2.7	3.0	28.7	2.2	14.4	31.3	2.4
Prop In Lane	1.00		0.09	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	197	0	408	230	857	376	57	1007	449	216	1344	786
V/C Ratio(X)	0.86	0.00	0.89	0.88	0.55	0.13	0.81	0.93	0.09	1.04	0.82	0.08
Avail Cap(c_a), veh/h	306	0	561	276	1022	449	111	1034	461	216	1344	786
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.4	0.0	40.2	45.4	35.1	31.3	51.7	36.9	27.6	46.7	29.3	13.2
Incr Delay (d2), s/veh	9.0	0.0	12.7	21.5	0.5	0.2	9.8	13.9	0.1	70.8	4.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	0.0	10.3	6.5	5.2	1.0	1.3	13.0	0.8	9.9	12.9	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	55.4	0.0	52.9	66.8	35.6	31.4	61.5	50.8	27.7	117.5	33.6	13.3
LnGrp LOS	E	A	D	E	D	C	E	D	C	F	C	B
Approach Vol, veh/h		533			718			1024			1396	
Approach Delay, s/veh		53.7			44.2			50.4			46.1	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	38.3	19.9	30.6	8.4	48.9	17.7	32.8
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	14.4	* 33	18.4	34.2	7.4	38.5	20.4	32.2
Max Q Clear Time (g_c+I1), s	16.4	30.7	15.3	23.4	5.0	33.3	13.1	14.8
Green Ext Time (p_c), s	0.0	1.1	0.1	1.4	0.0	3.2	0.1	2.7

Intersection Summary	
HCM 6th Ctrl Delay	48.0
HCM 6th LOS	D

Notes

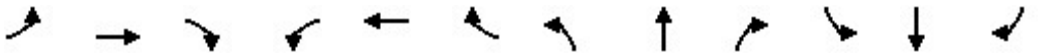
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	70	178	52	95	276	41	905	111	79	1136	86
Future Volume (vph)	70	178	52	95	276	41	905	111	79	1136	86
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	52.0	52.0	52.0	52.0	52.0	12.0	52.0	52.0	16.0	56.0	56.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	43.3%	10.0%	43.3%	43.3%	13.3%	46.7%	46.7%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	42.4	42.4	42.4		42.4	6.7	48.8	48.8	9.3	50.0	50.0
Actuated g/C Ratio	0.37	0.37	0.37		0.37	0.06	0.43	0.43	0.08	0.44	0.44
v/c Ratio	0.34	0.28	0.09		0.95	0.46	0.64	0.17	0.63	0.79	0.13
Control Delay	31.9	26.5	3.1		61.4	70.2	30.2	11.7	73.1	33.7	6.3
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	31.9	26.5	3.1		61.4	70.2	30.2	11.7	73.1	33.7	6.3
LOS	C	C	A		E	E	C	B	E	C	A
Approach Delay		23.7			61.4		29.8			34.3	
Approach LOS		C			E		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 113.8	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.95	
Intersection Signal Delay: 36.2	Intersection LOS: D
Intersection Capacity Utilization 96.8%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	70	178	52	95	276	153	41	905	111	79	1136	86
Future Volume (veh/h)	70	178	52	95	276	153	41	905	111	79	1136	86
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	73	185	33	99	288	158	43	943	76	82	1183	53
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	207	694	588	125	316	165	53	1386	618	101	1489	664
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.03	0.41	0.41	0.06	0.44	0.44
Sat Flow, veh/h	858	1800	1525	230	819	428	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	73	185	33	545	0	0	43	943	76	82	1183	53
Grp Sat Flow(s),veh/h/ln	858	1800	1525	1478	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	8.1	1.6	33.5	0.0	0.0	3.0	26.1	3.6	5.8	34.5	2.3
Cycle Q Clear(g_c), s	19.2	8.1	1.6	41.7	0.0	0.0	3.0	26.1	3.6	5.8	34.5	2.3
Prop In Lane	1.00		1.00	0.18		0.29	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	207	694	588	607	0	0	53	1386	618	101	1489	664
V/C Ratio(X)	0.35	0.27	0.06	0.90	0.00	0.00	0.81	0.68	0.12	0.81	0.79	0.08
Avail Cap(c_a), veh/h	220	720	610	629	0	0	104	1386	618	160	1489	664
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.7	24.3	22.3	35.2	0.0	0.0	55.5	28.2	21.5	53.4	28.1	19.1
Incr Delay (d2), s/veh	1.0	0.2	0.0	15.5	0.0	0.0	10.4	2.7	0.4	7.2	4.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	3.4	0.5	16.7	0.0	0.0	1.3	10.3	1.3	2.5	13.7	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.7	24.5	22.3	50.7	0.0	0.0	65.9	30.9	21.9	60.6	32.6	19.3
LnGrp LOS	C	C	C	D	A	A	E	C	C	E	C	B
Approach Vol, veh/h		291			545			1062			1318	
Approach Delay, s/veh		25.3			50.7			31.7			33.8	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.8	53.3		50.3	8.4	56.8		50.3				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 47		46.2	7.4	49.5		46.2				
Max Q Clear Time (g_c+I1), s	7.8	28.1		21.2	5.0	36.5		43.7				
Green Ext Time (p_c), s	0.0	5.8		1.4	0.0	6.1		0.8				

Intersection Summary		
HCM 6th Ctrl Delay		35.2
HCM 6th LOS		D

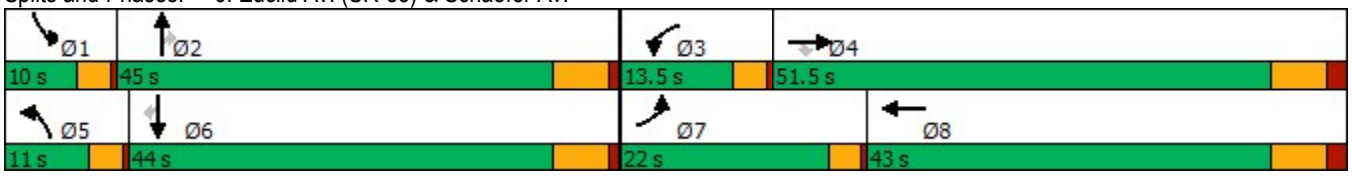
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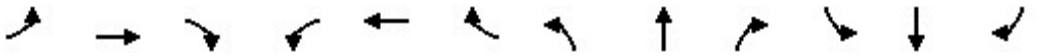
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	146	57	79	4	4	80	908	31	82	1125	127
Future Volume (vph)	146	57	79	4	4	80	908	31	82	1125	127
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	22.0	51.5	51.5	13.5	43.0	11.0	45.0	45.0	10.0	44.0	44.0
Total Split (%)	18.3%	42.9%	42.9%	11.3%	35.8%	9.2%	37.5%	37.5%	8.3%	36.7%	36.7%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	12.5	15.4	15.4	10.5	9.7	7.7	41.3	41.3	6.8	40.5	40.5
Actuated g/C Ratio	0.15	0.19	0.19	0.13	0.12	0.09	0.50	0.50	0.08	0.49	0.49
v/c Ratio	0.62	0.18	0.23	0.02	0.10	0.56	0.55	0.04	0.64	0.70	0.16
Control Delay	47.8	26.9	6.3	42.2	18.3	56.5	20.2	0.1	64.8	23.5	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.8	26.9	6.3	42.2	18.3	56.5	20.2	0.1	64.8	23.5	5.1
LOS	D	C	A	D	B	E	C	A	E	C	A
Approach Delay		32.0			22.3		22.4			24.3	
Approach LOS		C			C		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 82.7	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.70	
Intersection Signal Delay: 24.4	Intersection LOS: C
Intersection Capacity Utilization 67.7%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	146	57	79	4	4	15	80	908	31	82	1125	127
Future Volume (veh/h)	146	57	79	4	4	15	80	908	31	82	1125	127
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	152	59	45	4	4	13	83	946	32	85	1172	95
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	189	316	268	17	26	84	103	1491	665	105	1497	668
Arrive On Green	0.12	0.18	0.18	0.01	0.07	0.07	0.06	0.44	0.44	0.06	0.44	0.44
Sat Flow, veh/h	1619	1800	1525	1619	372	1210	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	152	59	45	4	0	17	83	946	32	85	1172	95
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1582	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	5.9	1.8	1.6	0.2	0.0	0.6	3.2	13.8	0.8	3.3	18.7	2.4
Cycle Q Clear(g_c), s	5.9	1.8	1.6	0.2	0.0	0.6	3.2	13.8	0.8	3.3	18.7	2.4
Prop In Lane	1.00		1.00	1.00		0.76	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	189	316	268	17	0	110	103	1491	665	105	1497	668
V/C Ratio(X)	0.81	0.19	0.17	0.23	0.00	0.15	0.81	0.63	0.05	0.81	0.78	0.14
Avail Cap(c_a), veh/h	469	1253	1062	253	0	891	190	2087	931	165	2033	907
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.5	22.5	22.4	31.4	0.0	28.0	29.6	14.0	10.4	29.5	15.4	10.8
Incr Delay (d2), s/veh	3.1	0.2	0.2	2.5	0.0	0.5	5.6	0.5	0.0	7.4	1.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	0.7	0.5	0.1	0.0	0.2	1.3	4.0	0.2	1.3	5.6	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.6	22.7	22.6	33.8	0.0	28.4	35.2	14.5	10.4	36.9	16.8	10.9
LnGrp LOS	C	C	C	C	A	C	D	B	B	D	B	B
Approach Vol, veh/h		256			21			1061			1352	
Approach Delay, s/veh		27.4			29.5			16.0			17.7	
Approach LOS		C			C			B			B	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.6	33.9	4.2	18.2	7.5	34.0	10.9	11.5
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	6.5	39.0	10.0	44.5	7.5	38.0	18.5	36.0
Max Q Clear Time (g_c+I1), s	5.3	15.8	2.2	3.8	5.2	20.7	7.9	2.6
Green Ext Time (p_c), s	0.0	6.1	0.0	0.3	0.0	7.2	0.1	0.0

Intersection Summary	
HCM 6th Ctrl Delay	18.0
HCM 6th LOS	B

Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	4	768	10	0	1145
Future Vol, veh/h	0	4	768	10	0	1145
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	4	835	11	0	1245

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	423	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	585	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	585	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	11.2	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	585	-
HCM Lane V/C Ratio	-	-	0.007	-
HCM Control Delay (s)	-	-	11.2	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	12	767	37	0	1145
Future Vol, veh/h	0	12	767	37	0	1145
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	13	834	40	0	1245

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	437	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	573	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	573	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	11.4	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	573	-
HCM Lane V/C Ratio	-	-	0.023	-
HCM Control Delay (s)	-	-	11.4	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	13	790	33	0	1145
Future Vol, veh/h	0	13	790	33	0	1145
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	14	859	36	0	1245

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	448	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	564	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	564	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	11.5	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	564	-
HCM Lane V/C Ratio	-	-	0.025	-
HCM Control Delay (s)	-	-	11.5	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.4

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	61	762	69	0	1145
Future Vol, veh/h	0	61	762	69	0	1145
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	66	828	75	0	1245

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	452	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	560	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	560	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

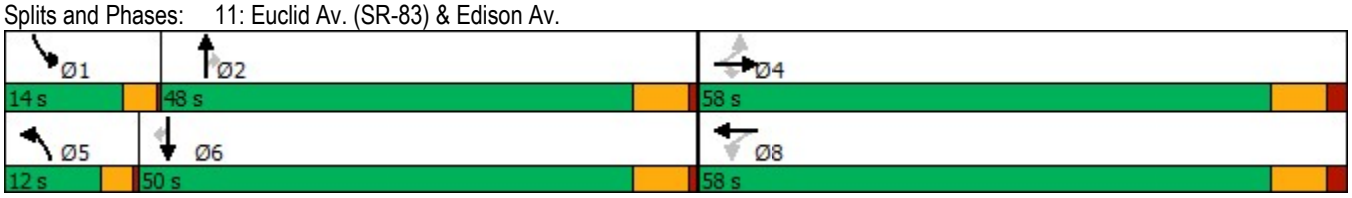
Approach	WB	NB	SB
HCM Control Delay, s	12.3	0	0
HCM LOS	B		

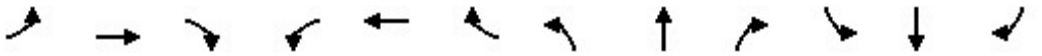
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	560	-
HCM Lane V/C Ratio	-	-	0.118	-
HCM Control Delay (s)	-	-	12.3	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0.4	-

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	209	178	96	153	420	116	705	63	177	738	230
Future Volume (vph)	209	178	96	153	420	116	705	63	177	738	230
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	58.0	58.0	58.0	58.0	58.0	12.0	48.0	48.0	14.0	50.0	50.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	10.0%	40.0%	40.0%	11.7%	41.7%	41.7%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	51.2	51.2	51.2	51.2	51.2	7.7	28.9	28.9	10.5	31.8	31.8
Actuated g/C Ratio	0.48	0.48	0.48	0.48	0.48	0.07	0.27	0.27	0.10	0.30	0.30
v/c Ratio	1.10	0.21	0.13	0.30	0.75	0.54	0.79	0.14	1.15	0.75	0.39
Control Delay	123.8	18.4	4.2	20.6	30.1	58.3	42.8	7.1	161.8	39.3	5.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	123.8	18.4	4.2	20.6	30.1	58.3	42.8	7.1	161.8	39.3	5.4
LOS	F	B	A	C	C	E	D	A	F	D	A
Approach Delay		61.1			28.1		42.3			51.4	
Approach LOS		E			C		D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 107.2	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.15	
Intersection Signal Delay: 45.0	Intersection LOS: D
Intersection Capacity Utilization 99.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	209	178	96	153	420	181	116	705	63	177	738	230
Future Volume (veh/h)	209	178	96	153	420	181	116	705	63	177	738	230
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	215	184	63	158	433	177	120	727	58	182	761	202
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	214	872	738	506	588	240	173	887	394	161	1040	463
Arrive On Green	0.48	0.48	0.48	0.48	0.48	0.48	0.06	0.26	0.26	0.10	0.30	0.30
Sat Flow, veh/h	737	1800	1524	1029	1214	496	3141	3420	1520	1619	3420	1524
Grp Volume(v), veh/h	215	184	63	158	0	610	120	727	58	182	761	202
Grp Sat Flow(s),veh/h/ln	737	1800	1524	1029	0	1710	1570	1710	1520	1619	1710	1524
Q Serve(g_s), s	20.9	6.2	2.3	11.0	0.0	30.1	4.0	21.1	3.1	10.5	21.0	11.2
Cycle Q Clear(g_c), s	51.0	6.2	2.3	17.2	0.0	30.1	4.0	21.1	3.1	10.5	21.0	11.2
Prop In Lane	1.00		1.00	1.00		0.29	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	214	872	738	506	0	828	173	887	394	161	1040	463
V/C Ratio(X)	1.00	0.21	0.09	0.31	0.00	0.74	0.69	0.82	0.15	1.13	0.73	0.44
Avail Cap(c_a), veh/h	214	872	738	506	0	828	253	1364	606	161	1429	637
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.6	15.6	14.6	20.5	0.0	21.8	48.9	36.7	30.0	47.4	32.8	29.4
Incr Delay (d2), s/veh	62.3	0.1	0.0	0.3	0.0	3.5	1.9	2.4	0.2	109.3	1.3	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.2	2.4	0.8	2.5	0.0	11.7	1.5	8.4	1.1	8.9	8.2	3.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	107.8	15.7	14.7	20.9	0.0	25.3	50.7	39.1	30.2	156.7	34.1	30.1
LnGrp LOS	F	B	B	C	A	C	D	D	C	F	C	C
Approach Vol, veh/h		462			768			905			1145	
Approach Delay, s/veh		58.5			24.4			40.0			52.8	
Approach LOS		E			C			D			D	

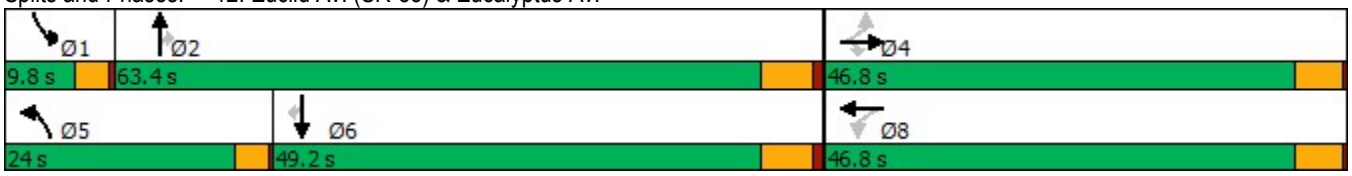
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.0	33.3		58.0	9.3	38.0		58.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	10.5	42.0		51.0	8.5	44.0		51.0				
Max Q Clear Time (g_c+I1), s	12.5	23.1		53.0	6.0	23.0		32.1				
Green Ext Time (p_c), s	0.0	4.3		0.0	0.0	5.2		4.4				

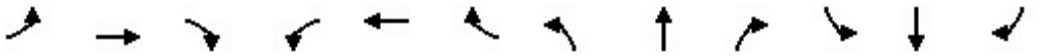
Intersection Summary			
HCM 6th Ctrl Delay		43.4	
HCM 6th LOS		D	

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	56	49	138	28	146	145	750	16	27	976	35
Future Volume (vph)	56	49	138	28	146	145	750	16	27	976	35
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	24.0	63.4	63.4	9.8	49.2	49.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	20.0%	52.8%	52.8%	8.2%	41.0%	41.0%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	16.9	16.9	16.9	16.9	16.9	13.2	44.8	44.8	6.3	30.8	30.8
Actuated g/C Ratio	0.22	0.22	0.22	0.22	0.22	0.17	0.59	0.59	0.08	0.40	0.40
v/c Ratio	0.30	0.13	0.33	0.11	0.50	0.56	0.40	0.02	0.22	0.76	0.06
Control Delay	30.9	26.3	6.9	26.7	30.1	42.0	11.7	0.1	47.0	25.8	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	30.9	26.3	6.9	26.7	30.1	42.0	11.7	0.1	47.0	25.8	0.3
LOS	C	C	A	C	C	D	B	A	D	C	A
Approach Delay		16.4			29.7		16.3			25.5	
Approach LOS		B			C		B			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 76.2	
Natural Cycle: 95	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.76	
Intersection Signal Delay: 21.5	Intersection LOS: C
Intersection Capacity Utilization 68.1%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	56	49	138	28	146	36	145	750	16	27	976	35
Future Volume (veh/h)	56	49	138	28	146	36	145	750	16	27	976	35
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	60	53	63	30	157	33	156	806	15	29	1049	26
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	239	354	300	332	284	60	197	1760	785	53	1456	648
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.12	0.51	0.51	0.03	0.43	0.43
Sat Flow, veh/h	1085	1800	1525	1160	1442	303	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	60	53	63	30	0	190	156	806	15	29	1049	26
Grp Sat Flow(s),veh/h/ln	1085	1800	1525	1160	0	1745	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	2.9	1.3	1.9	1.2	0.0	5.4	5.1	8.2	0.3	1.0	13.9	0.5
Cycle Q Clear(g_c), s	8.2	1.3	1.9	2.5	0.0	5.4	5.1	8.2	0.3	1.0	13.9	0.5
Prop In Lane	1.00		1.00	1.00		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	239	354	300	332	0	343	197	1760	785	53	1456	648
V/C Ratio(X)	0.25	0.15	0.21	0.09	0.00	0.55	0.79	0.46	0.02	0.55	0.72	0.04
Avail Cap(c_a), veh/h	859	1383	1172	995	0	1341	607	3611	1610	187	2722	1213
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.5	18.2	18.4	19.2	0.0	19.8	23.3	8.4	6.5	26.0	13.0	9.2
Incr Delay (d2), s/veh	0.4	0.1	0.3	0.1	0.0	1.0	5.3	0.2	0.0	6.5	0.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.5	0.6	0.3	0.0	1.9	1.9	1.8	0.1	0.4	3.7	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.9	18.3	18.7	19.3	0.0	20.8	28.6	8.6	6.5	32.5	13.7	9.2
LnGrp LOS	C	B	B	B	A	C	C	A	A	C	B	A
Approach Vol, veh/h		176			220			977			1104	
Approach Delay, s/veh		20.3			20.6			11.8			14.1	
Approach LOS		C			C			B			B	

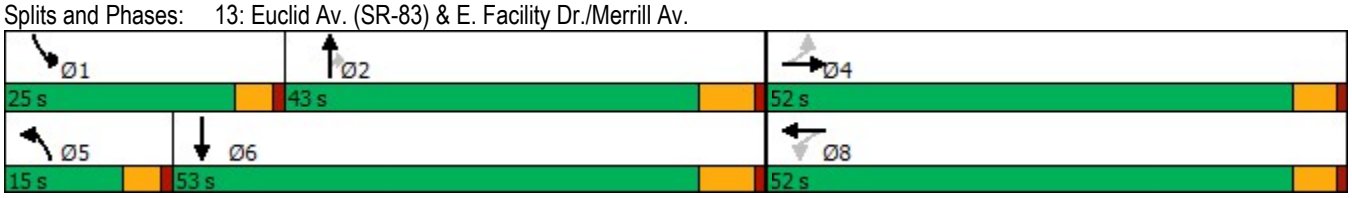
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	5.3	33.8		15.5	10.1	29.0		15.5				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	6.3	57.7		42.0	20.5	43.5		42.0				
Max Q Clear Time (g_c+I1), s	3.0	10.2		10.2	7.1	15.9		7.4				
Green Ext Time (p_c), s	0.0	5.5		0.5	0.2	7.3		0.9				

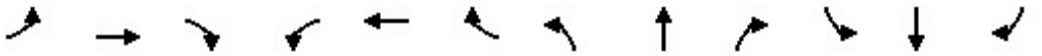
Intersection Summary			
HCM 6th Ctrl Delay		14.2	
HCM 6th LOS		B	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	7	5	223	50	12	820	122	192	945
Future Volume (vph)	7	5	223	50	12	820	122	192	945
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	52.0	52.0	52.0	52.0	15.0	43.0	43.0	25.0	53.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	12.5%	35.8%	35.8%	20.8%	44.2%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		35.1		35.1	10.6	31.2	31.2	16.7	47.8
Actuated g/C Ratio		0.35		0.35	0.11	0.31	0.31	0.17	0.48
v/c Ratio		0.03		0.87	0.08	0.81	0.24	0.76	0.65
Control Delay		19.3		47.3	50.6	40.0	10.8	61.1	24.8
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		19.3		47.3	50.6	40.0	10.8	61.1	24.8
LOS		B		D	D	D	B	E	C
Approach Delay		19.3		47.3		36.4			30.7
Approach LOS		B		D		D			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 99.3	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.87	
Intersection Signal Delay: 35.4	Intersection LOS: D
Intersection Capacity Utilization 82.8%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	5	4	223	50	149	12	820	122	192	945	55
Future Volume (veh/h)	7	5	4	223	50	149	12	820	122	192	945	55
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	7	5	2	237	53	135	13	872	115	204	1005	43
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	265	178	62	332	62	150	51	1113	497	241	1480	63
Arrive On Green	0.32	0.32	0.32	0.32	0.32	0.32	0.03	0.33	0.33	0.15	0.44	0.44
Sat Flow, veh/h	603	552	192	801	193	463	1619	3420	1525	1619	3341	143
Grp Volume(v), veh/h	14	0	0	425	0	0	13	872	115	204	514	534
Grp Sat Flow(s),veh/h/ln	1347	0	0	1456	0	0	1619	1710	1525	1619	1710	1774
Q Serve(g_s), s	0.0	0.0	0.0	21.0	0.0	0.0	0.6	17.7	4.2	9.4	18.4	18.4
Cycle Q Clear(g_c), s	0.4	0.0	0.0	21.4	0.0	0.0	0.6	17.7	4.2	9.4	18.4	18.4
Prop In Lane	0.50		0.14	0.56		0.32	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	506	0	0	544	0	0	51	1113	497	241	757	786
V/C Ratio(X)	0.03	0.00	0.00	0.78	0.00	0.00	0.25	0.78	0.23	0.85	0.68	0.68
Avail Cap(c_a), veh/h	904	0	0	964	0	0	222	1650	736	433	1048	1087
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	17.7	0.0	0.0	24.8	0.0	0.0	36.3	23.4	18.9	31.8	17.0	17.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.9	0.0	0.0	1.0	1.5	0.2	3.1	1.1	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	6.5	0.0	0.0	0.2	6.3	1.3	3.5	6.0	6.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	17.7	0.0	0.0	25.7	0.0	0.0	37.2	24.9	19.1	34.9	18.1	18.1
LnGrp LOS	B	A	A	C	A	A	D	C	B	C	B	B
Approach Vol, veh/h		14			425			1000			1252	
Approach Delay, s/veh		17.7			25.7			24.4			20.8	
Approach LOS		B			C			C			C	

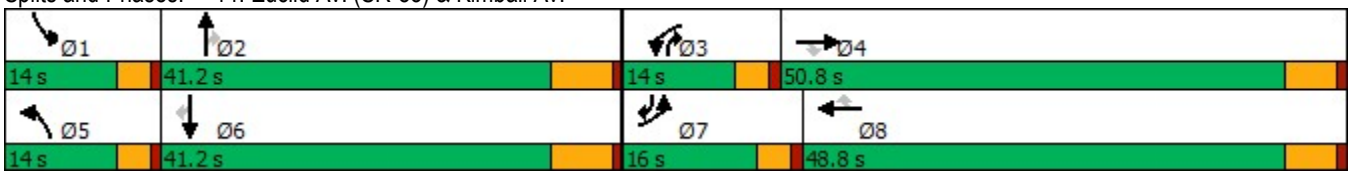
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.9	31.0		29.8	6.9	40.0		29.8				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	20.5	37.0		47.0	10.5	47.0		47.0				
Max Q Clear Time (g_c+I1), s	11.4	19.7		2.4	2.6	20.4		23.4				
Green Ext Time (p_c), s	0.2	5.3		0.0	0.0	6.3		1.4				

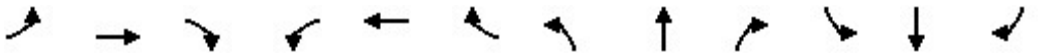
Intersection Summary												
HCM 6th Ctrl Delay			22.9									
HCM 6th LOS			C									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	150	246	45	90	944	304	43	507	27	152	590	391
Future Volume (vph)	150	246	45	90	944	304	43	507	27	152	590	391
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	47.8	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	16.0	50.8	50.8	14.0	48.8	48.8	14.0	41.2	14.0	14.0	41.2	16.0
Total Split (%)	13.3%	42.3%	42.3%	11.7%	40.7%	40.7%	11.7%	34.3%	11.7%	11.7%	34.3%	13.3%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	4.8	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	5.8	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	11.0	34.5	34.5	10.3	33.9	33.9	10.3	23.9	41.0	9.0	29.6	43.2
Actuated g/C Ratio	0.11	0.35	0.35	0.10	0.34	0.34	0.10	0.24	0.41	0.09	0.30	0.44
v/c Ratio	0.47	0.21	0.08	0.55	0.83	0.44	0.26	0.63	0.04	0.59	0.59	0.55
Control Delay	50.6	23.6	0.2	61.2	37.4	6.3	51.8	37.8	0.5	56.4	34.8	17.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	50.6	23.6	0.2	61.2	37.4	6.3	51.8	37.8	0.5	56.4	34.8	17.5
LOS	D	C	A	E	D	A	D	D	A	E	C	B
Approach Delay		30.4			32.0			37.1			31.7	
Approach LOS		C			C			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 98.8	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.83	
Intersection Signal Delay: 32.5	Intersection LOS: C
Intersection Capacity Utilization 78.3%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	150	246	45	90	944	304	43	507	27	152	590	391
Future Volume (veh/h)	150	246	45	90	944	304	43	507	27	152	590	391
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	155	254	36	93	973	135	44	523	14	157	608	352
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	311	1158	516	158	1132	505	118	937	567	215	938	573
Arrive On Green	0.11	0.34	0.34	0.10	0.33	0.33	0.07	0.27	0.27	0.07	0.27	0.27
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	155	254	36	93	973	135	44	523	14	157	608	352
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	4.6	5.0	1.5	5.1	24.9	6.1	2.4	12.3	0.5	4.9	14.7	17.7
Cycle Q Clear(g_c), s	4.6	5.0	1.5	5.1	24.9	6.1	2.4	12.3	0.5	4.9	14.7	17.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	311	1158	516	158	1132	505	118	937	567	215	938	573
V/C Ratio(X)	0.50	0.22	0.07	0.59	0.86	0.27	0.37	0.56	0.02	0.73	0.65	0.61
Avail Cap(c_a), veh/h	379	1646	734	173	1573	702	173	1269	715	316	1269	719
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.5	22.1	20.9	40.4	29.3	23.0	41.3	29.1	18.6	42.4	30.0	23.5
Incr Delay (d2), s/veh	0.5	0.1	0.1	2.4	2.8	0.1	0.7	0.7	0.0	1.8	1.1	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	1.9	0.5	2.1	9.8	2.1	0.9	4.7	0.2	1.7	5.6	6.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	40.0	22.2	21.0	42.8	32.0	23.1	42.0	29.8	18.7	44.2	31.0	25.0
LnGrp LOS	D	C	C	D	C	C	D	C	B	D	C	C
Approach Vol, veh/h		445			1201			581			1117	
Approach Delay, s/veh		28.3			31.9			30.5			31.0	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.8	32.1	13.1	37.5	10.8	32.1	13.8	36.7
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	10.0	34.7	10.0	45.0	10.0	34.7	12.0	43.0
Max Q Clear Time (g_c+I1), s	6.9	14.3	7.1	7.0	4.4	19.7	6.6	26.9
Green Ext Time (p_c), s	0.1	4.1	0.0	1.6	0.0	5.9	0.1	4.1

Intersection Summary	
HCM 6th Ctrl Delay	30.9
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	163	7	0	23	0	2
Future Vol, veh/h	163	7	0	23	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	177	8	0	25	0	2

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	181
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	867
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	867
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.2
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	867	-	-	-
HCM Lane V/C Ratio	0.003	-	-	-
HCM Control Delay (s)	9.2	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	0.6

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	152	13	3	16	6	3
Future Vol, veh/h	152	13	3	16	6	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	165	14	3	17	7	3

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	179	0	195	172
Stage 1	-	-	-	-	172	-
Stage 2	-	-	-	-	23	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1409	-	798	877
Stage 1	-	-	-	-	863	-
Stage 2	-	-	-	-	1005	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1409	-	796	877
Mov Cap-2 Maneuver	-	-	-	-	773	-
Stage 1	-	-	-	-	863	-
Stage 2	-	-	-	-	1003	-

Approach	EB	WB	NB
HCM Control Delay, s	0	1.2	9.5
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	805	-	-	1409	-
HCM Lane V/C Ratio	0.012	-	-	0.002	-
HCM Control Delay (s)	9.5	-	-	7.6	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	148	7	0	20	0	2
Future Vol, veh/h	148	7	0	20	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	161	8	0	22	0	2

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	165
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	885
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	885
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.1
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	885	-	-	-
HCM Lane V/C Ratio	0.002	-	-	-
HCM Control Delay (s)	9.1	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	407	651	116	0	102
Future Vol, veh/h	0	407	651	116	0	102
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	442	708	126	0	111

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	771
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	403
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	403
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	17.3
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	403
HCM Lane V/C Ratio	-	-	-	0.275
HCM Control Delay (s)	-	-	-	17.3
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	1.1

Intersection	
Int Delay, s/veh	31.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	212	196	669	87	190	98
Future Vol, veh/h	212	196	669	87	190	98
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	230	213	727	95	207	107

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	822	0	-	0	1448	775
Stage 1	-	-	-	-	775	-
Stage 2	-	-	-	-	673	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	816	-	-	-	~ 146	401
Stage 1	-	-	-	-	458	-
Stage 2	-	-	-	-	511	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	816	-	-	-	~ 105	401
Mov Cap-2 Maneuver	-	-	-	-	228	-
Stage 1	-	-	-	-	329	-
Stage 2	-	-	-	-	511	-

Approach	EB	WB	SB
HCM Control Delay, s	5.8	0	150.1
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	816	-	-	-	267
HCM Lane V/C Ratio	0.282	-	-	-	1.172
HCM Control Delay (s)	11.1	-	-	-	150.1
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	1.2	-	-	-	14.1

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	0.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑	↱			↗
Traffic Vol, veh/h	0	385	733	3	0	23
Future Vol, veh/h	0	385	733	3	0	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	418	797	3	0	25

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	799
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	389
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	389
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	14.9
HCM LOS			B

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	389
HCM Lane V/C Ratio	-	-	-	0.064
HCM Control Delay (s)	-	-	-	14.9
HCM Lane LOS	-	-	-	B
HCM 95th %tile Q(veh)	-	-	-	0.2

Intersection	
Int Delay, s/veh	0.9

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	134	15	17	16	3	1
Future Vol, veh/h	134	15	17	16	3	1
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	146	16	18	17	3	1

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	162	0	207	154
Stage 1	-	-	-	-	154	-
Stage 2	-	-	-	-	53	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1429	-	786	897
Stage 1	-	-	-	-	879	-
Stage 2	-	-	-	-	975	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1429	-	776	897
Mov Cap-2 Maneuver	-	-	-	-	769	-
Stage 1	-	-	-	-	879	-
Stage 2	-	-	-	-	962	-

Approach	EB	WB	NB
HCM Control Delay, s	0	3.9	9.5
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	797	-	-	1429	-
HCM Lane V/C Ratio	0.005	-	-	0.013	-
HCM Control Delay (s)	9.5	-	-	7.6	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-

Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	2	10	13	3	14	18
Future Vol, veh/h	2	10	13	3	14	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	11	14	3	15	20

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	56	25	35	0	-	0
Stage 1	25	-	-	-	-	-
Stage 2	31	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	957	1057	1589	-	-	-
Stage 1	1003	-	-	-	-	-
Stage 2	997	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	948	1057	1589	-	-	-
Mov Cap-2 Maneuver	887	-	-	-	-	-
Stage 1	994	-	-	-	-	-
Stage 2	997	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	5.9	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1589	-	1024	-	-
HCM Lane V/C Ratio	0.009	-	0.013	-	-
HCM Control Delay (s)	7.3	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	2	2	5	14	19	5
Future Vol, veh/h	2	2	5	14	19	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	2	5	15	21	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	49	24	26	0	-	0
Stage 1	24	-	-	-	-	-
Stage 2	25	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	965	1058	1601	-	-	-
Stage 1	1004	-	-	-	-	-
Stage 2	1003	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	962	1058	1601	-	-	-
Mov Cap-2 Maneuver	896	-	-	-	-	-
Stage 1	1001	-	-	-	-	-
Stage 2	1003	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.7	1.9	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1601	-	970	-	-
HCM Lane V/C Ratio	0.003	-	0.004	-	-
HCM Control Delay (s)	7.3	-	8.7	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	1	3	5	18	16	5
Future Vol, veh/h	1	3	5	18	16	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	3	5	20	17	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	50	20	22	0	-	0
Stage 1	20	-	-	-	-	-
Stage 2	30	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	964	1064	1607	-	-	-
Stage 1	1008	-	-	-	-	-
Stage 2	998	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	961	1064	1607	-	-	-
Mov Cap-2 Maneuver	896	-	-	-	-	-
Stage 1	1005	-	-	-	-	-
Stage 2	998	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	1.6	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1607	-	1016	-	-
HCM Lane V/C Ratio	0.003	-	0.004	-	-
HCM Control Delay (s)	7.2	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	3	12	23	19	0
Future Vol, veh/h	0	3	12	23	19	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	3	13	25	21	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	72	21	21	0	-	0
Stage 1	21	-	-	-	-	-
Stage 2	51	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	937	1062	1608	-	-	-
Stage 1	1007	-	-	-	-	-
Stage 2	977	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	930	1062	1608	-	-	-
Mov Cap-2 Maneuver	874	-	-	-	-	-
Stage 1	999	-	-	-	-	-
Stage 2	977	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.4	2.5	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1608	-	1062	-	-
HCM Lane V/C Ratio	0.008	-	0.003	-	-
HCM Control Delay (s)	7.3	-	8.4	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	3.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	19	31	35	20	2
Future Vol, veh/h	0	19	31	35	20	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	21	34	38	22	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	129	23	24	0	-	0
Stage 1	23	-	-	-	-	-
Stage 2	106	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	870	1060	1604	-	-	-
Stage 1	1005	-	-	-	-	-
Stage 2	923	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	852	1060	1604	-	-	-
Mov Cap-2 Maneuver	820	-	-	-	-	-
Stage 1	984	-	-	-	-	-
Stage 2	923	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.5	3.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1604	-	1060	-	-
HCM Lane V/C Ratio	0.021	-	0.019	-	-
HCM Control Delay (s)	7.3	-	8.5	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

Intersection	
Int Delay, s/veh	1.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	11	6	66	39	0
Future Vol, veh/h	0	11	6	66	39	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	12	7	72	42	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	128	42	42	0	-	0
Stage 1	42	-	-	-	-	-
Stage 2	86	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	871	1034	1580	-	-	-
Stage 1	986	-	-	-	-	-
Stage 2	942	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	868	1034	1580	-	-	-
Mov Cap-2 Maneuver	833	-	-	-	-	-
Stage 1	982	-	-	-	-	-
Stage 2	942	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.5	0.6	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1580	-	1034	-	-
HCM Lane V/C Ratio	0.004	-	0.012	-	-
HCM Control Delay (s)	7.3	-	8.5	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	28	11	72	50	0
Future Vol, veh/h	0	28	11	72	50	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	30	12	78	54	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	156	54	54	0	-	0
Stage 1	54	-	-	-	-	-
Stage 2	102	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	840	1019	1564	-	-	-
Stage 1	974	-	-	-	-	-
Stage 2	927	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	833	1019	1564	-	-	-
Mov Cap-2 Maneuver	811	-	-	-	-	-
Stage 1	966	-	-	-	-	-
Stage 2	927	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1564	-	1019	-	-
HCM Lane V/C Ratio	0.008	-	0.03	-	-
HCM Control Delay (s)	7.3	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	1.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	2	383	725	80	68	11
Future Vol, veh/h	2	383	725	80	68	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	100
Veh in Median Storage, #	-	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	416	788	87	74	12

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	875	0	-	0	1252	832
Stage 1	-	-	-	-	832	-
Stage 2	-	-	-	-	420	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	780	-	-	-	192	372
Stage 1	-	-	-	-	431	-
Stage 2	-	-	-	-	667	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	780	-	-	-	191	372
Mov Cap-2 Maneuver	-	-	-	-	320	-
Stage 1	-	-	-	-	430	-
Stage 2	-	-	-	-	667	-

Approach	EB	WB	SB
HCM Control Delay, s	0.1	0	19
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	780	-	-	-	320	372
HCM Lane V/C Ratio	0.003	-	-	-	0.231	0.032
HCM Control Delay (s)	9.6	-	-	-	19.6	15
HCM Lane LOS	A	-	-	-	C	C
HCM 95th %tile Q(veh)	0	-	-	-	0.9	0.1

Intersection	
Intersection Delay, s/veh	11.9
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	18	97	9	17	314	16	17	104	14	17	114	50
Future Vol, veh/h	18	97	9	17	314	16	17	104	14	17	114	50
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	20	107	10	19	345	18	19	114	15	19	125	55
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	9.9	13.9	10.3	10.7
HCM LOS	A	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	15%	5%	9%
Vol Thru, %	77%	78%	90%	63%
Vol Right, %	10%	7%	5%	28%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	135	124	347	181
LT Vol	17	18	17	17
Through Vol	104	97	314	114
RT Vol	14	9	16	50
Lane Flow Rate	148	136	381	199
Geometry Grp	1	1	1	1
Degree of Util (X)	0.23	0.206	0.537	0.297
Departure Headway (Hd)	5.573	5.435	5.068	5.379
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	644	660	713	666
Service Time	3.617	3.477	3.1	3.421
HCM Lane V/C Ratio	0.23	0.206	0.534	0.299
HCM Control Delay	10.3	9.9	13.9	10.7
HCM Lane LOS	B	A	B	B
HCM 95th-tile Q	0.9	0.8	3.2	1.2

Intersection	
Intersection Delay, s/veh	17.7
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	42	418	16	7	654	30	11	80	5	10	79	39
Future Vol, veh/h	42	418	16	7	654	30	11	80	5	10	79	39
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	51	504	19	8	788	36	13	96	6	12	95	47
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	52.3	196.2	14.3	14.8
HCM LOS	F	F	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	11%	9%	1%	8%
Vol Thru, %	83%	88%	95%	62%
Vol Right, %	5%	3%	4%	30%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	96	476	691	128
LT Vol	11	42	7	10
Through Vol	80	418	654	79
RT Vol	5	16	30	39
Lane Flow Rate	116	573	833	154
Geometry Grp	1	1	1	1
Degree of Util (X)	0.246	0.95	1.372	0.314
Departure Headway (Hd)	8.514	6.521	5.932	8.138
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	424	562	608	444
Service Time	6.514	4.521	4.013	6.138
HCM Lane V/C Ratio	0.274	1.02	1.37	0.347
HCM Control Delay	14.3	52.3	196.2	14.8
HCM Lane LOS	B	F	F	B
HCM 95th-tile Q	1	12.4	36.3	1.3

Intersection	
Intersection Delay, s/veh	17.8
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	42	79	23	30	242	53	36	318	9	31	211	60
Future Vol, veh/h	42	79	23	30	242	53	36	318	9	31	211	60
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	44	82	24	31	252	55	38	331	9	32	220	63
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	12.8	18.4	20.3	16.6
HCM LOS	B	C	C	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	10%	29%	9%	10%
Vol Thru, %	88%	55%	74%	70%
Vol Right, %	2%	16%	16%	20%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	363	144	325	302
LT Vol	36	42	30	31
Through Vol	318	79	242	211
RT Vol	9	23	53	60
Lane Flow Rate	378	150	339	315
Geometry Grp	1	1	1	1
Degree of Util (X)	0.652	0.287	0.597	0.546
Departure Headway (Hd)	6.212	6.895	6.347	6.249
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	579	518	565	576
Service Time	4.274	4.977	4.408	4.315
HCM Lane V/C Ratio	0.653	0.29	0.6	0.547
HCM Control Delay	20.3	12.8	18.4	16.6
HCM Lane LOS	C	B	C	C
HCM 95th-tile Q	4.7	1.2	3.9	3.3

Intersection	
Intersection Delay, s/veh	160.7
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	71	365	27	29	581	59	51	216	6	40	189	53
Future Vol, veh/h	71	365	27	29	581	59	51	216	6	40	189	53
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	76	388	29	31	618	63	54	230	6	43	201	56
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	109.4	299	36.5	37.1
HCM LOS	F	F	E	E

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	19%	15%	4%	14%
Vol Thru, %	79%	79%	87%	67%
Vol Right, %	2%	6%	9%	19%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	273	463	669	282
LT Vol	51	71	29	40
Through Vol	216	365	581	189
RT Vol	6	27	59	53
Lane Flow Rate	290	493	712	300
Geometry Grp	1	1	1	1
Degree of Util (X)	0.715	1.107	1.592	0.727
Departure Headway (Hd)	10.685	9.482	8.491	10.527
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	343	389	434	345
Service Time	8.685	7.482	6.491	8.527
HCM Lane V/C Ratio	0.845	1.267	1.641	0.87
HCM Control Delay	36.5	109.4	299	37.1
HCM Lane LOS	E	F	F	E
HCM 95th-tile Q	5.2	15.3	38	5.4

Intersection	
Intersection Delay, s/veh	103.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	30	354	1	65	624	102	13	98	41	64	57	39
Future Vol, veh/h	30	354	1	65	624	102	13	98	41	64	57	39
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	31	369	1	68	650	106	14	102	43	67	59	41
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

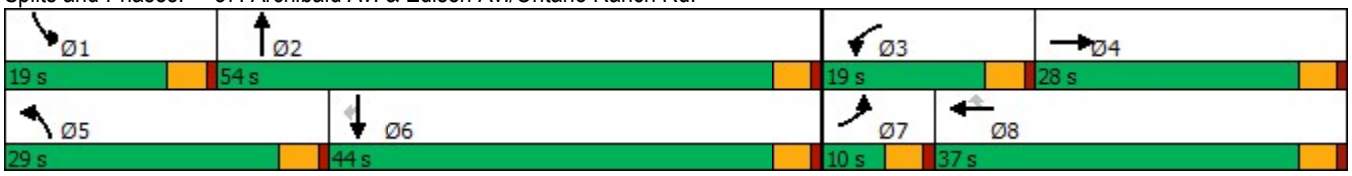
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	23.3	176.9	14.5	14.9
HCM LOS	C	F	B	B

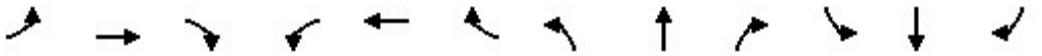
Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	9%	8%	8%	40%
Vol Thru, %	64%	92%	79%	36%
Vol Right, %	27%	0%	13%	24%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	152	385	791	160
LT Vol	13	30	65	64
Through Vol	98	354	624	57
RT Vol	41	1	102	39
Lane Flow Rate	158	401	824	167
Geometry Grp	1	1	1	1
Degree of Util (X)	0.314	0.689	1.327	0.332
Departure Headway (Hd)	7.929	6.72	5.796	7.964
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	456	541	626	455
Service Time	5.929	4.72	3.869	5.964
HCM Lane V/C Ratio	0.346	0.741	1.316	0.367
HCM Control Delay	14.5	23.3	176.9	14.9
HCM Lane LOS	B	C	F	B
HCM 95th-tile Q	1.3	5.3	34	1.4

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	53	242	83	242	460	106	189	1045	280	90	499	84
Future Volume (vph)	53	242	83	242	460	106	189	1045	280	90	499	84
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	44.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	36.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	5.7	23.3	104.1	13.3	33.8	33.8	18.5	40.8	104.1	11.4	30.3	30.3
Actuated g/C Ratio	0.05	0.22	1.00	0.13	0.32	0.32	0.18	0.39	1.00	0.11	0.29	0.29
v/c Ratio	0.35	0.33	0.06	0.69	0.86	0.20	0.73	0.81	0.20	0.56	0.52	0.16
Control Delay	59.4	38.5	0.1	56.3	53.6	4.7	58.1	34.7	0.3	60.8	32.7	0.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	59.4	38.5	0.1	56.3	53.6	4.7	58.1	34.7	0.3	60.8	32.7	0.6
LOS	E	D	A	E	D	A	E	C	A	E	C	A
Approach Delay		33.0			48.0			31.3			32.4	
Approach LOS		C			D			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 104.1	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.86	
Intersection Signal Delay: 35.7	Intersection LOS: D
Intersection Capacity Utilization 80.8%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	53	242	83	242	460	106	189	1045	280	90	499	84
Future Volume (veh/h)	53	242	83	242	460	106	189	1045	280	90	499	84
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	58	266	0	266	505	93	208	1148	0	99	548	81
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	126	856		335	552	461	243	1389		123	1124	465
Arrive On Green	0.04	0.24	0.00	0.11	0.31	0.31	0.15	0.39	0.00	0.08	0.31	0.31
Sat Flow, veh/h	3048	3600	1525	3048	1800	1506	1619	3600	1525	1619	3600	1491
Grp Volume(v), veh/h	58	266	0	266	505	93	208	1148	0	99	548	81
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1506	1619	1800	1525	1619	1800	1491
Q Serve(g_s), s	1.8	5.8	0.0	8.1	25.6	4.3	11.9	27.2	0.0	5.7	11.7	3.7
Cycle Q Clear(g_c), s	1.8	5.8	0.0	8.1	25.6	4.3	11.9	27.2	0.0	5.7	11.7	3.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	126	856		335	552	461	243	1389		123	1124	465
V/C Ratio(X)	0.46	0.31		0.79	0.92	0.20	0.86	0.83		0.80	0.49	0.17
Avail Cap(c_a), veh/h	177	894		467	619	517	419	1884		248	1503	623
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.3	29.7	0.0	41.1	31.6	24.2	39.2	26.2	0.0	43.0	26.4	23.7
Incr Delay (d2), s/veh	2.6	0.2	0.0	6.3	17.3	0.2	8.5	2.3	0.0	11.3	0.3	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	2.4	0.0	3.1	12.8	1.5	4.9	10.7	0.0	2.5	4.6	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.9	29.9	0.0	47.4	49.0	24.5	47.7	28.5	0.0	54.3	26.7	23.8
LnGrp LOS	D	C		D	D	C	D	C		D	C	C
Approach Vol, veh/h		324	A		864			1356	A		728	
Approach Delay, s/veh		32.9			45.8			31.5			30.2	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.7	41.0	14.9	27.0	18.7	34.0	8.4	33.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	7.7	29.2	10.1	7.8	13.9	13.7	3.8	27.6
Green Ext Time (p_c), s	0.1	7.3	0.3	1.2	0.4	3.5	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	35.1
HCM 6th LOS	D

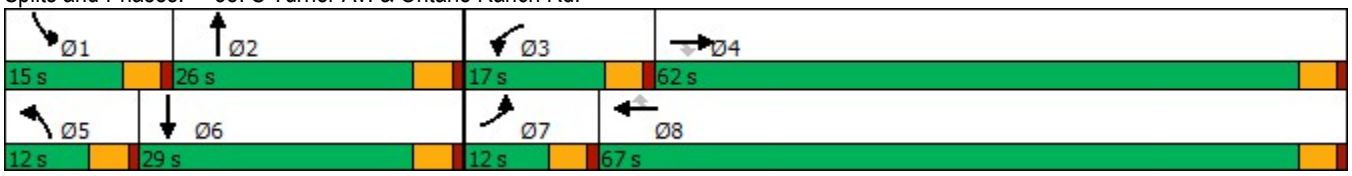
Notes

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	39	577	15	52	825	24	34	129	53	64
Future Volume (vph)	39	577	15	52	825	24	34	129	53	64
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	26.0	15.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	21.7%	12.5%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.9	25.6	25.6	8.9	26.5	26.5	7.8	13.1	8.8	13.9
Actuated g/C Ratio	0.13	0.41	0.41	0.14	0.42	0.42	0.12	0.21	0.14	0.22
v/c Ratio	0.19	0.43	0.02	0.23	0.60	0.04	0.17	0.46	0.23	0.25
Control Delay	37.1	17.5	0.1	35.1	18.5	0.1	37.0	30.7	35.4	24.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	37.1	17.5	0.1	35.1	18.5	0.1	37.0	30.7	35.4	24.4
LOS	D	B	A	D	B	A	D	C	D	C
Approach Delay		18.2			19.0			31.8		28.4
Approach LOS		B			B			C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 62.5	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.60	
Intersection Signal Delay: 20.8	Intersection LOS: C
Intersection Capacity Utilization 55.0%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	39	577	15	52	825	24	34	129	34	53	64	28
Future Volume (veh/h)	39	577	15	52	825	24	34	129	34	53	64	28
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	43	641	17	58	917	27	38	143	38	59	71	31
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	81	1376	614	100	1413	630	74	214	57	101	204	89
Arrive On Green	0.04	0.38	0.38	0.06	0.39	0.39	0.04	0.15	0.15	0.06	0.16	0.16
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	1446	384	1810	1254	547
Grp Volume(v), veh/h	43	641	17	58	917	27	38	0	181	59	0	102
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1831	1810	0	1801
Q Serve(g_s), s	1.2	6.7	0.3	1.6	10.4	0.5	1.0	0.0	4.7	1.6	0.0	2.5
Cycle Q Clear(g_c), s	1.2	6.7	0.3	1.6	10.4	0.5	1.0	0.0	4.7	1.6	0.0	2.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.21	1.00		0.30
Lane Grp Cap(c), veh/h	81	1376	614	100	1413	630	74	0	270	101	0	293
V/C Ratio(X)	0.53	0.47	0.03	0.58	0.65	0.04	0.51	0.00	0.67	0.58	0.00	0.35
Avail Cap(c_a), veh/h	271	4152	1852	452	4513	2013	271	0	787	380	0	883
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	23.4	11.6	9.7	23.0	12.4	9.4	23.5	0.0	20.2	23.0	0.0	18.6
Incr Delay (d2), s/veh	5.2	0.2	0.0	5.2	0.5	0.0	5.4	0.0	2.9	5.2	0.0	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	2.0	0.1	0.7	3.1	0.1	0.5	0.0	1.9	0.7	0.0	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.6	11.9	9.7	28.3	12.9	9.4	28.8	0.0	23.0	28.3	0.0	19.3
LnGrp LOS	C	B	A	C	B	A	C	A	C	C	A	B
Approach Vol, veh/h		701			1002			219			161	
Approach Delay, s/veh		12.9			13.7			24.0			22.6	
Approach LOS		B			B			C			C	

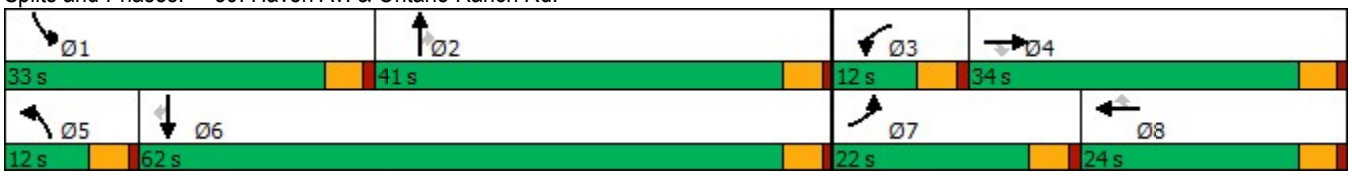
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.3	11.9	7.3	23.5	6.6	12.6	6.7	24.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	10.5	21.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	3.6	6.7	3.6	8.7	3.0	4.5	3.2	12.4
Green Ext Time (p_c), s	0.0	0.7	0.1	4.5	0.0	0.4	0.0	7.2

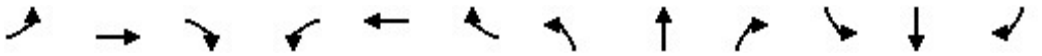
Intersection Summary	
HCM 6th Ctrl Delay	15.2
HCM 6th LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	120	651	17	74	641	151	36	288	113	195	184	61
Future Volume (vph)	120	651	17	74	641	151	36	288	113	195	184	61
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	22.0	34.0	34.0	12.0	24.0	24.0	12.0	41.0	41.0	33.0	62.0	62.0
Total Split (%)	18.3%	28.3%	28.3%	10.0%	20.0%	20.0%	10.0%	34.2%	34.2%	27.5%	51.7%	51.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	12.5	24.5	24.5	7.3	16.2	16.2	7.1	21.2	21.2	17.3	36.9	36.9
Actuated g/C Ratio	0.15	0.28	0.28	0.08	0.19	0.19	0.08	0.25	0.25	0.20	0.43	0.43
v/c Ratio	0.55	0.50	0.03	0.32	0.59	0.38	0.29	0.70	0.24	0.65	0.26	0.09
Control Delay	48.4	30.0	0.1	47.7	36.4	7.8	51.0	40.8	2.4	44.4	19.1	0.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.4	30.0	0.1	47.7	36.4	7.8	51.0	40.8	2.4	44.4	19.1	0.2
LOS	D	C	A	D	D	A	D	D	A	D	B	A
Approach Delay		32.2			32.4			31.7			27.7	
Approach LOS		C			C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 86.2	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.70	
Intersection Signal Delay: 31.4	Intersection LOS: C
Intersection Capacity Utilization 60.6%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	120	651	17	74	641	151	36	288	113	195	184	61
Future Volume (veh/h)	120	651	17	74	641	151	36	288	113	195	184	61
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	129	700	7	80	689	110	39	310	71	210	198	43
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	164	1151	357	185	1210	298	65	415	351	263	635	536
Arrive On Green	0.10	0.23	0.23	0.06	0.20	0.20	0.04	0.23	0.23	0.16	0.35	0.35
Sat Flow, veh/h	1619	4914	1523	2956	6192	1525	1619	1800	1523	1619	1800	1519
Grp Volume(v), veh/h	129	700	7	80	689	110	39	310	71	210	198	43
Grp Sat Flow(s),veh/h/ln	1619	1638	1523	1478	1548	1525	1619	1800	1523	1619	1800	1519
Q Serve(g_s), s	4.5	7.4	0.2	1.5	5.8	3.6	1.4	9.3	2.2	7.2	4.6	1.1
Cycle Q Clear(g_c), s	4.5	7.4	0.2	1.5	5.8	3.6	1.4	9.3	2.2	7.2	4.6	1.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	164	1151	357	185	1210	298	65	415	351	263	635	536
V/C Ratio(X)	0.79	0.61	0.02	0.43	0.57	0.37	0.60	0.75	0.20	0.80	0.31	0.08
Avail Cap(c_a), veh/h	488	2499	775	382	2082	513	209	1133	959	796	1784	1506
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.5	19.8	17.1	26.2	21.1	20.2	27.4	20.7	18.0	23.4	13.7	12.5
Incr Delay (d2), s/veh	8.1	0.5	0.0	1.6	0.4	0.8	8.5	2.7	0.3	5.5	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	2.4	0.1	0.5	1.8	1.1	0.6	3.6	0.7	2.8	1.6	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	33.5	20.4	17.1	27.8	21.6	21.0	35.9	23.4	18.3	28.9	13.9	12.6
LnGrp LOS	C	C	B	C	C	C	D	C	B	C	B	B
Approach Vol, veh/h		836			879			420			451	
Approach Delay, s/veh		22.4			22.1			23.7			20.8	
Approach LOS		C			C			C			C	

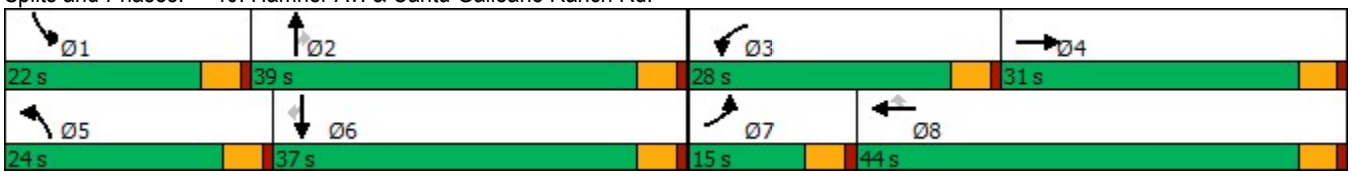
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.9	17.9	8.1	18.1	6.8	25.0	10.4	15.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	36.5	7.5	29.5	7.5	57.5	17.5	19.5
Max Q Clear Time (g_c+I1), s	9.2	11.3	3.5	9.4	3.4	6.6	6.5	7.8
Green Ext Time (p_c), s	0.5	1.9	0.1	4.2	0.0	1.2	0.2	3.4

Intersection Summary	
HCM 6th Ctrl Delay	22.2
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	155	644	240	741	244	171	586	310	169	182	92
Future Volume (vph)	155	644	240	741	244	171	586	310	169	182	92
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	28.0	44.0	44.0	24.0	39.0	39.0	22.0	37.0	37.0
Total Split (%)	12.5%	25.8%	23.3%	36.7%	36.7%	20.0%	32.5%	32.5%	18.3%	30.8%	30.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	9.1	22.6	11.7	25.2	25.2	10.0	17.8	17.8	9.9	17.7	17.7
Actuated g/C Ratio	0.11	0.28	0.14	0.31	0.31	0.12	0.22	0.22	0.12	0.22	0.22
v/c Ratio	0.41	0.42	0.49	0.68	0.37	0.41	0.53	0.53	0.41	0.24	0.21
Control Delay	40.1	24.2	37.6	28.3	4.8	38.6	30.7	7.3	38.6	28.5	3.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	40.1	24.2	37.6	28.3	4.8	38.6	30.7	7.3	38.6	28.5	3.3
LOS	D	C	D	C	A	D	C	A	D	C	A
Approach Delay		27.0		25.4			25.2			27.1	
Approach LOS		C		C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 80.7	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.68	
Intersection Signal Delay: 25.9	Intersection LOS: C
Intersection Capacity Utilization 56.0%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	155	644	88	240	741	244	171	586	310	169	182	92
Future Volume (veh/h)	155	644	88	240	741	244	171	586	310	169	182	92
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	161	671	36	250	772	188	178	610	240	176	190	55
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	266	1759	93	388	1116	498	296	1246	387	291	863	385
Arrive On Green	0.08	0.27	0.27	0.11	0.31	0.31	0.08	0.24	0.24	0.08	0.24	0.24
Sat Flow, veh/h	3510	6401	340	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	161	512	195	250	772	188	178	610	240	176	190	55
Grp Sat Flow(s),veh/h/ln	1755	1634	1839	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	2.7	5.2	5.3	4.2	11.6	5.6	3.0	6.2	8.2	3.0	2.6	1.7
Cycle Q Clear(g_c), s	2.7	5.2	5.3	4.2	11.6	5.6	3.0	6.2	8.2	3.0	2.6	1.7
Prop In Lane	1.00		0.18	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	266	1347	505	388	1116	498	296	1246	387	291	863	385
V/C Ratio(X)	0.60	0.38	0.39	0.64	0.69	0.38	0.60	0.49	0.62	0.60	0.22	0.14
Avail Cap(c_a), veh/h	597	2105	790	1337	2311	1031	1109	2900	900	996	1901	848
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.6	18.1	18.2	26.3	18.7	16.7	27.3	20.2	20.9	27.3	18.9	18.5
Incr Delay (d2), s/veh	2.2	0.2	0.5	1.8	0.8	0.5	2.0	0.3	1.6	2.0	0.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	1.6	1.9	1.6	4.0	1.7	1.2	2.2	2.7	1.2	0.9	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.8	18.3	18.6	28.1	19.5	17.1	29.2	20.5	22.6	29.3	19.0	18.7
LnGrp LOS	C	B	B	C	B	B	C	C	C	C	B	B
Approach Vol, veh/h		868			1210			1028			421	
Approach Delay, s/veh		20.5			20.9			22.5			23.3	
Approach LOS		C			C			C			C	

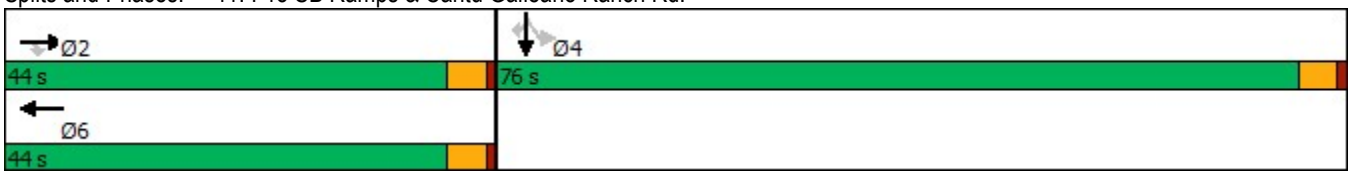
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.6	19.3	11.3	21.5	9.7	19.2	9.2	23.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	34.5	23.5	26.5	19.5	32.5	10.5	39.5
Max Q Clear Time (g_c+I1), s	5.0	10.2	6.2	7.3	5.0	4.6	4.7	13.6
Green Ext Time (p_c), s	0.4	4.6	0.7	3.8	0.4	1.2	0.2	5.5

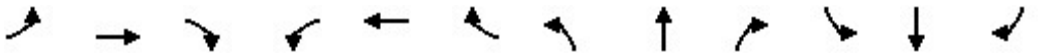
Intersection Summary	
HCM 6th Ctrl Delay	21.6
HCM 6th LOS	C

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	848	338	728	171	266	0	990
Future Volume (vph)	848	338	728	171	266	0	990
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	44.0	44.0	44.0		76.0	76.0	76.0
Total Split (%)	36.7%	36.7%	36.7%		63.3%	63.3%	63.3%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	23.7	23.7	23.7	71.7	38.0	38.0	38.0
Actuated g/C Ratio	0.33	0.33	0.33	1.00	0.53	0.53	0.53
v/c Ratio	0.54	0.47	0.67	0.07	0.29	0.70	0.67
Control Delay	22.4	5.0	25.6	0.0	10.6	17.3	16.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	22.4	5.0	25.6	0.0	10.6	17.3	16.1
LOS	C	A	C	A	B	B	B
Approach Delay	17.5		20.8			15.6	
Approach LOS	B		C			B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 71.7	
Natural Cycle: 50	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.70	
Intersection Signal Delay: 17.6	Intersection LOS: B
Intersection Capacity Utilization 68.5%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	848	338	0	728	171	0	0	0	266	0	990
Future Volume (veh/h)	0	848	338	0	728	171	0	0	0	266	0	990
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	932	0	0	800	0				195	0	870
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1905		0	1326					720	0	1282
Arrive On Green	0.00	0.37	0.00	0.00	0.37	0.00				0.40	0.00	0.40
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	932	0	0	800	0				195	0	870
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	5.3	0.0	0.0	6.9	0.0				2.8	0.0	8.5
Cycle Q Clear(g_c), s	0.0	5.3	0.0	0.0	6.9	0.0				2.8	0.0	8.5
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1905		0	1326					720	0	1282
V/C Ratio(X)	0.00	0.49		0.00	0.60					0.27	0.00	0.68
Avail Cap(c_a), veh/h	0	5340		0	3717					3372	0	6002
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	9.4	0.0	0.0	9.9	0.0				7.8	0.0	9.5
Incr Delay (d2), s/veh	0.0	0.2	0.0	0.0	0.4	0.0				0.2	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.1	0.0	0.0	1.5	0.0				0.7	0.0	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	9.6	0.0	0.0	10.3	0.0				8.0	0.0	10.2
LnGrp LOS	A	A		A	B					A	A	B
Approach Vol, veh/h		932	A		800	A					1065	
Approach Delay, s/veh		9.6			10.3						9.8	
Approach LOS		A			B						A	

Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		18.6		19.8		18.6						
Change Period (Y+Rc), s		4.5		4.5		4.5						
Max Green Setting (Gmax), s		39.5		71.5		39.5						
Max Q Clear Time (g_c+I1), s		7.3		10.5		8.9						
Green Ext Time (p_c), s		6.3		4.7		5.2						

Intersection Summary	
HCM 6th Ctrl Delay	9.8
HCM 6th LOS	A

Notes

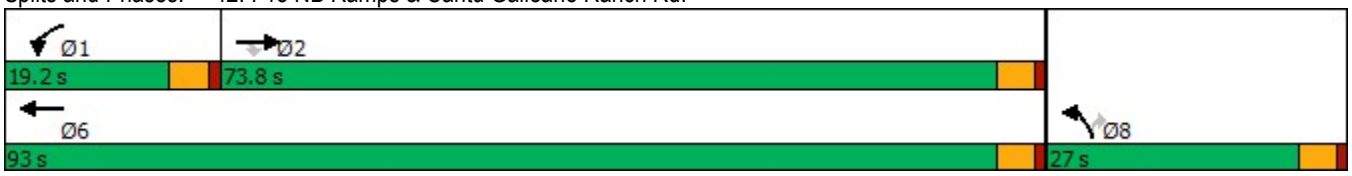
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	406	708	194	411	488	377
Future Volume (vph)	406	708	194	411	488	377
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	73.8	73.8	19.2	93.0	27.0	27.0
Total Split (%)	61.5%	61.5%	16.0%	77.5%	22.5%	22.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	14.6	14.6	8.9	28.1	16.9	16.9
Actuated g/C Ratio	0.27	0.27	0.16	0.52	0.31	0.31
v/c Ratio	0.30	0.76	0.35	0.16	0.56	0.43
Control Delay	16.6	7.8	24.4	7.1	18.3	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	16.6	7.8	24.4	7.1	18.3	5.1
LOS	B	A	C	A	B	A
Approach Delay	11.0			12.7	14.2	
Approach LOS	B			B	B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 54.3	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.76	
Intersection Signal Delay: 12.4	Intersection LOS: B
Intersection Capacity Utilization 56.9%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	406	708	194	411	488	377
Future Volume (veh/h)	406	708	194	411	488	377
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	414	459	198	419	549	276
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	1963	609	338	2942	898	399
Arrive On Green	0.38	0.38	0.10	0.57	0.25	0.25
Sat Flow, veh/h	5358	1610	3510	5358	3619	1610
Grp Volume(v), veh/h	414	459	198	419	549	276
Grp Sat Flow(s),veh/h/ln	1729	1610	1755	1729	1810	1610
Q Serve(g_s), s	2.6	12.1	2.6	1.9	6.5	7.6
Cycle Q Clear(g_c), s	2.6	12.1	2.6	1.9	6.5	7.6
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	1963	609	338	2942	898	399
V/C Ratio(X)	0.21	0.75	0.59	0.14	0.61	0.69
Avail Cap(c_a), veh/h	7382	2291	1060	9427	1672	744
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.2	13.2	21.1	5.0	16.2	16.6
Incr Delay (d2), s/veh	0.1	1.9	1.6	0.0	0.7	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	3.2	0.9	0.3	2.2	2.4
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	10.3	15.1	22.7	5.0	16.9	18.8
LnGrp LOS	B	B	C	A	B	B
Approach Vol, veh/h	873			617	825	
Approach Delay, s/veh	12.8			10.7	17.5	
Approach LOS	B			B	B	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	9.2	22.9				32.1	16.6
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	14.7	69.3				88.5	22.5
Max Q Clear Time (g_c+I1), s	4.6	14.1				3.9	9.6
Green Ext Time (p_c), s	0.4	4.4				2.6	2.5

Intersection Summary	
HCM 6th Ctrl Delay	13.9
HCM 6th LOS	B

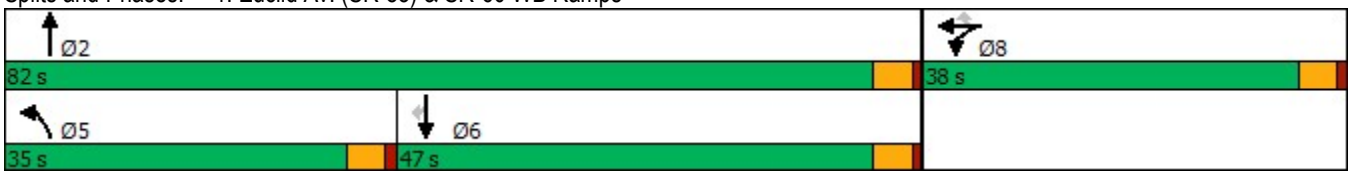
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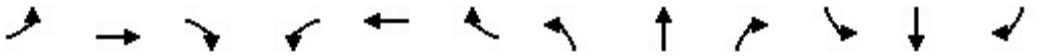
User approved volume balancing among the lanes for turning movement.

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	643	6	347	347	867	841	438
Future Volume (vph)	643	6	347	347	867	841	438
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	38.0	38.0	38.0	35.0	82.0	47.0	47.0
Total Split (%)	31.7%	31.7%	31.7%	29.2%	68.3%	39.2%	39.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	Min	Min	Min
Act Effct Green (s)	27.2	27.2	27.2	24.5	62.9	33.6	33.6
Actuated g/C Ratio	0.27	0.27	0.27	0.25	0.63	0.34	0.34
v/c Ratio	0.74	0.78	0.58	0.80	0.39	0.71	0.53
Control Delay	45.9	48.0	19.4	51.9	9.8	33.3	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Total Delay	45.9	48.0	19.4	51.9	9.9	33.3	5.1
LOS	D	D	B	D	A	C	A
Approach Delay		38.3			21.9	23.7	
Approach LOS		D			C	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 99.6	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.80	
Intersection Signal Delay: 27.2	Intersection LOS: C
Intersection Capacity Utilization 79.1%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	643	6	347	347	867	0	0	841	438
Future Volume (veh/h)	0	0	0	643	6	347	347	867	0	0	841	438
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				723	0	139	354	885	0	0	858	257
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				920	0	410	412	2246	0	0	1202	536
Arrive On Green				0.25	0.00	0.25	0.23	0.62	0.00	0.00	0.33	0.33
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				723	0	139	354	885	0	0	858	257
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				13.6	0.0	5.1	13.7	8.9	0.0	0.0	15.2	9.2
Cycle Q Clear(g_c), s				13.6	0.0	5.1	13.7	8.9	0.0	0.0	15.2	9.2
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				920	0	410	412	2246	0	0	1202	536
V/C Ratio(X)				0.79	0.00	0.34	0.86	0.39	0.00	0.00	0.71	0.48
Avail Cap(c_a), veh/h				1662	0	739	757	3835	0	0	2103	938
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				25.3	0.0	22.2	27.1	6.9	0.0	0.0	21.3	19.3
Incr Delay (d2), s/veh				1.5	0.0	0.5	5.3	0.1	0.0	0.0	0.8	0.7
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				5.4	0.0	1.8	6.0	2.6	0.0	0.0	5.9	3.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				26.9	0.0	22.7	32.4	7.0	0.0	0.0	22.1	20.0
LnGrp LOS				C	A	C	C	A	A	A	C	B
Approach Vol, veh/h					862			1239			1115	
Approach Delay, s/veh					26.2			14.3			21.6	
Approach LOS					C			B			C	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	49.9		21.1	28.8		23.1						
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5						
Max Green Setting (Gmax), s	77.5		30.5	42.5		33.5						
Max Q Clear Time (g_c+I1), s	10.9		15.7	17.2		15.6						
Green Ext Time (p_c), s	7.2		0.9	7.1		3.0						

Intersection Summary		
HCM 6th Ctrl Delay	20.0	
HCM 6th LOS	C	

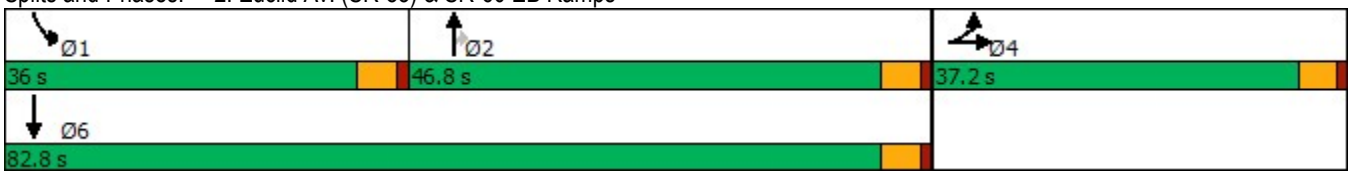
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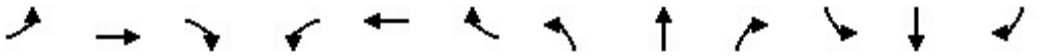
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	276	5	939	493	337	1146
Future Volume (vph)	276	5	939	493	337	1146
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	Min	Min	None	Min
Act Effct Green (s)	22.3	22.3	35.7	35.7	24.2	64.7
Actuated g/C Ratio	0.23	0.23	0.37	0.37	0.25	0.67
v/c Ratio	0.65	0.79	0.73	0.57	0.78	0.49
Control Delay	44.0	40.3	31.8	5.4	48.9	9.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.2
Total Delay	44.0	40.3	31.8	5.4	48.9	9.5
LOS	D	D	C	A	D	A
Approach Delay		41.9	22.7			18.4
Approach LOS		D	C			B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 96.6	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.79	
Intersection Signal Delay: 24.0	Intersection LOS: C
Intersection Capacity Utilization 79.1%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	276	5	295	0	0	0	0	939	493	337	1146	0
Future Volume (veh/h)	276	5	295	0	0	0	0	939	493	337	1146	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	263	40	233				0	978	387	351	1194	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	387	52	300				0	1361	591	409	2397	0
Arrive On Green	0.21	0.21	0.21				0.00	0.38	0.38	0.23	0.66	0.00
Sat Flow, veh/h	1810	241	1406				0	3705	1568	1810	3705	0
Grp Volume(v), veh/h	263	0	273				0	978	387	351	1194	0
Grp Sat Flow(s),veh/h/ln	1810	0	1647				0	1805	1568	1810	1805	0
Q Serve(g_s), s	9.8	0.0	11.5				0.0	17.0	15.0	13.7	12.2	0.0
Cycle Q Clear(g_c), s	9.8	0.0	11.5				0.0	17.0	15.0	13.7	12.2	0.0
Prop In Lane	1.00		0.85				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	387	0	352				0	1361	591	409	2397	0
V/C Ratio(X)	0.68	0.00	0.78				0.00	0.72	0.65	0.86	0.50	0.00
Avail Cap(c_a), veh/h	805	0	733				0	2077	902	775	3845	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	26.6	0.0	27.3				0.0	19.6	18.9	27.3	6.2	0.0
Incr Delay (d2), s/veh	2.1	0.0	3.7				0.0	0.7	1.2	5.3	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.1	0.0	4.4				0.0	6.4	5.0	6.0	3.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.7	0.0	30.9				0.0	20.3	20.2	32.7	6.4	0.0
LnGrp LOS	C	A	C				A	C	C	C	A	A
Approach Vol, veh/h		536						1365			1545	
Approach Delay, s/veh		29.8						20.3			12.3	
Approach LOS		C						C			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	21.1	32.2		20.2		53.3
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	15.7	19.0		13.5		14.2
Green Ext Time (p_c), s	0.9	8.7		2.2		11.3

Intersection Summary	
HCM 6th Ctrl Delay	18.2
HCM 6th LOS	B

Notes

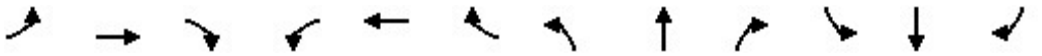
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	115	472	64	218	111	1073	70	252	1032	118
Future Volume (vph)	115	472	64	218	111	1073	70	252	1032	118
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	20.0	33.7	17.3	31.0	23.0	51.7	51.7	17.3	46.0	46.0
Total Split (%)	16.7%	28.1%	14.4%	25.8%	19.2%	43.1%	43.1%	14.4%	38.3%	38.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	12.2	25.4	9.5	19.5	12.6	32.7	32.7	12.6	32.6	32.6
Actuated g/C Ratio	0.13	0.27	0.10	0.20	0.13	0.34	0.34	0.13	0.34	0.34
v/c Ratio	0.59	0.73	0.42	0.51	0.55	0.67	0.13	0.69	0.65	0.21
Control Delay	56.5	38.5	54.5	27.2	53.6	29.7	3.3	53.8	30.2	4.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	56.5	38.5	54.5	27.2	53.6	29.7	3.3	53.8	30.2	4.7
LOS	E	D	D	C	D	C	A	D	C	A
Approach Delay		41.3		31.3		30.3			32.3	
Approach LOS		D		C		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 95.8	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.73	
Intersection Signal Delay: 33.3	Intersection LOS: C
Intersection Capacity Utilization 68.6%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	115	472	154	64	218	140	111	1073	70	252	1032	118
Future Volume (veh/h)	115	472	154	64	218	140	111	1073	70	252	1032	118
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	121	497	131	67	229	106	117	1129	65	265	1086	86
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	152	647	170	83	457	204	148	1702	528	349	1833	569
Arrive On Green	0.09	0.24	0.24	0.05	0.20	0.20	0.09	0.35	0.35	0.12	0.37	0.37
Sat Flow, veh/h	1619	2681	703	1619	2295	1027	1619	4914	1524	2956	4914	1524
Grp Volume(v), veh/h	121	316	312	67	169	166	117	1129	65	265	1086	86
Grp Sat Flow(s),veh/h/ln	1619	1710	1674	1619	1710	1612	1619	1638	1524	1478	1638	1524
Q Serve(g_s), s	5.4	12.7	12.9	3.0	6.5	6.8	5.2	14.5	2.2	6.4	13.2	2.8
Cycle Q Clear(g_c), s	5.4	12.7	12.9	3.0	6.5	6.8	5.2	14.5	2.2	6.4	13.2	2.8
Prop In Lane	1.00		0.42	1.00		0.64	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	152	413	404	83	340	321	148	1702	528	349	1833	569
V/C Ratio(X)	0.80	0.77	0.77	0.80	0.50	0.52	0.79	0.66	0.12	0.76	0.59	0.15
Avail Cap(c_a), veh/h	339	674	659	280	611	576	404	3130	971	511	2752	854
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.9	26.2	26.2	34.8	26.4	26.5	33.0	20.6	16.5	31.7	18.7	15.4
Incr Delay (d2), s/veh	9.1	3.0	3.2	16.2	1.1	1.3	9.1	0.4	0.1	3.9	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.4	5.0	5.0	1.5	2.5	2.5	2.3	5.0	0.7	2.3	4.5	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.0	29.2	29.4	51.0	27.5	27.8	42.1	21.0	16.6	35.5	19.0	15.6
LnGrp LOS	D	C	C	D	C	C	D	C	B	D	B	B
Approach Vol, veh/h		749			402			1311			1437	
Approach Delay, s/veh		31.3			31.5			22.7			21.8	
Approach LOS		C			C			C			C	

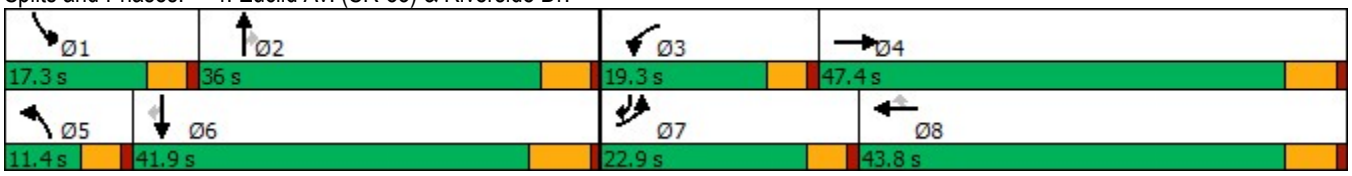
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.2	30.2	8.3	22.4	11.3	32.1	11.5	19.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	12.8	47.2	12.8	29.2	18.5	41.5	15.5	26.5
Max Q Clear Time (g_c+I1), s	8.4	16.5	5.0	14.9	7.2	15.2	7.4	8.8
Green Ext Time (p_c), s	0.3	9.2	0.1	3.0	0.2	8.5	0.2	1.6

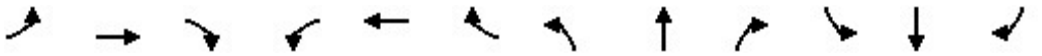
Intersection Summary	
HCM 6th Ctrl Delay	24.9
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	131	467	134	370	68	49	977	148	103	895	154
Future Volume (vph)	131	467	134	370	68	49	977	148	103	895	154
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	22.9	47.4	19.3	43.8	43.8	11.4	36.0	36.0	17.3	41.9	22.9
Total Split (%)	19.1%	39.5%	16.1%	36.5%	36.5%	9.5%	30.0%	30.0%	14.4%	34.9%	19.1%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	13.2	36.4	12.6	35.8	35.8	6.4	31.3	31.3	10.5	36.7	56.5
Actuated g/C Ratio	0.12	0.33	0.11	0.32	0.32	0.06	0.28	0.28	0.09	0.33	0.51
v/c Ratio	0.69	0.91	0.75	0.34	0.12	0.53	1.03	0.28	0.68	0.80	0.18
Control Delay	67.3	56.9	74.0	30.3	0.4	75.6	77.6	6.9	73.4	43.0	3.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	67.3	56.9	74.0	30.3	0.4	75.6	77.6	6.9	73.4	43.0	3.1
LOS	E	E	E	C	A	E	E	A	E	D	A
Approach Delay		59.0		37.0			68.6			40.4	
Approach LOS		E		D			E			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 111.4	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.03	
Intersection Signal Delay: 52.6	Intersection LOS: D
Intersection Capacity Utilization 89.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	131	467	56	134	370	68	49	977	148	103	895	154
Future Volume (veh/h)	131	467	56	134	370	68	49	977	148	103	895	154
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	132	472	26	135	374	30	49	987	86	104	904	57
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	159	523	29	162	1064	467	60	1028	459	128	1170	672
Arrive On Green	0.10	0.31	0.31	0.10	0.31	0.31	0.04	0.30	0.30	0.08	0.34	0.34
Sat Flow, veh/h	1619	1690	93	1619	3420	1501	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	132	0	498	135	374	30	49	987	86	104	904	57
Grp Sat Flow(s),veh/h/ln	1619	0	1783	1619	1710	1501	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	8.1	0.0	27.2	8.3	8.6	1.4	3.1	28.9	4.3	6.4	24.1	2.2
Cycle Q Clear(g_c), s	8.1	0.0	27.2	8.3	8.6	1.4	3.1	28.9	4.3	6.4	24.1	2.2
Prop In Lane	1.00		0.05	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	159	0	552	162	1064	467	60	1028	459	128	1170	672
V/C Ratio(X)	0.83	0.00	0.90	0.84	0.35	0.06	0.81	0.96	0.19	0.81	0.77	0.08
Avail Cap(c_a), veh/h	291	0	729	234	1277	560	108	1028	459	202	1189	680
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.1	0.0	33.7	45.0	27.1	24.6	48.6	35.0	26.4	46.2	29.9	16.6
Incr Delay (d2), s/veh	4.2	0.0	11.9	10.9	0.2	0.1	9.3	19.1	0.2	6.2	3.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.3	0.0	12.8	3.7	3.4	0.5	1.3	13.7	1.5	2.7	9.9	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.3	0.0	45.6	55.9	27.3	24.7	57.9	54.1	26.6	52.4	33.1	16.6
LnGrp LOS	D	A	D	E	C	C	E	D	C	D	C	B
Approach Vol, veh/h		630			539			1122			1065	
Approach Delay, s/veh		46.4			34.3			52.2			34.1	
Approach LOS		D			C			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.6	37.1	14.8	37.3	8.4	41.3	14.6	37.5
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	12.7	* 31	14.7	41.6	6.8	35.4	18.3	38.0
Max Q Clear Time (g_c+I1), s	8.4	30.9	10.3	29.2	5.1	26.1	10.1	10.6
Green Ext Time (p_c), s	0.0	0.0	0.1	2.3	0.0	4.1	0.1	2.3

Intersection Summary	
HCM 6th Ctrl Delay	42.5
HCM 6th LOS	D

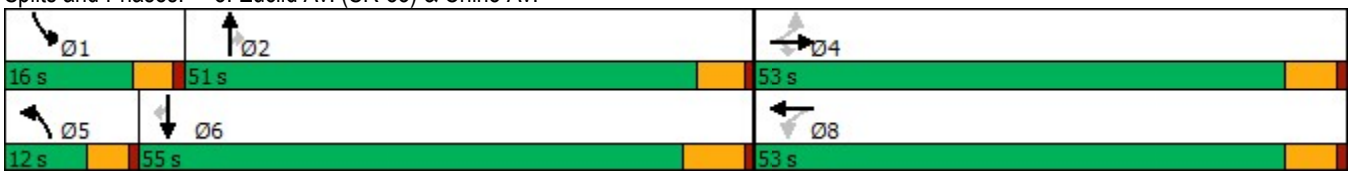
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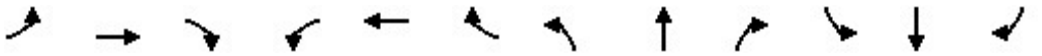
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	74	413	45	72	119	33	1068	186	87	925	64
Future Volume (vph)	74	413	45	72	119	33	1068	186	87	925	64
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	53.0	53.0	53.0	53.0	53.0	12.0	51.0	51.0	16.0	55.0	55.0
Total Split (%)	44.2%	44.2%	44.2%	44.2%	44.2%	10.0%	42.5%	42.5%	13.3%	45.8%	45.8%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	30.5	30.5	30.5		30.5	6.3	47.8	47.8	9.2	51.3	51.3
Actuated g/C Ratio	0.30	0.30	0.30		0.30	0.06	0.47	0.47	0.09	0.51	0.51
v/c Ratio	0.29	0.78	0.09		1.16	0.34	0.68	0.25	0.61	0.55	0.08
Control Delay	29.7	42.9	2.3		142.9	59.2	26.5	14.3	65.5	21.4	5.3
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.7	42.9	2.3		142.9	59.2	26.5	14.3	65.5	21.4	5.3
LOS	C	D	A		F	E	C	B	E	C	A
Approach Delay		37.6			142.9		25.6			24.0	
Approach LOS		D			F		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 100.8	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.16	
Intersection Signal Delay: 36.6	Intersection LOS: D
Intersection Capacity Utilization 92.2%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	74	413	45	72	119	63	33	1068	186	87	925	64
Future Volume (veh/h)	74	413	45	72	119	63	33	1068	186	87	925	64
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	76	426	26	74	123	59	34	1101	130	90	954	34
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	263	637	540	103	160	66	48	1443	643	111	1576	703
Arrive On Green	0.35	0.35	0.35	0.35	0.35	0.35	0.03	0.42	0.42	0.07	0.46	0.46
Sat Flow, veh/h	1092	1800	1525	170	453	186	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	76	426	26	256	0	0	34	1101	130	90	954	34
Grp Sat Flow(s),veh/h/ln	1092	1800	1525	809	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	21.7	1.2	13.7	0.0	0.0	2.3	29.8	5.8	6.0	22.6	1.3
Cycle Q Clear(g_c), s	12.3	21.7	1.2	35.4	0.0	0.0	2.3	29.8	5.8	6.0	22.6	1.3
Prop In Lane	1.00		1.00	0.29		0.23	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	263	637	540	329	0	0	48	1443	643	111	1576	703
V/C Ratio(X)	0.29	0.67	0.05	0.78	0.00	0.00	0.71	0.76	0.20	0.81	0.61	0.05
Avail Cap(c_a), veh/h	351	782	663	439	0	0	110	1443	643	170	1576	703
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.6	29.7	23.1	36.7	0.0	0.0	52.2	26.8	19.8	49.9	21.9	16.1
Incr Delay (d2), s/veh	0.6	1.6	0.0	6.3	0.0	0.0	7.0	3.9	0.7	8.5	1.7	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	9.2	0.4	7.0	0.0	0.0	1.0	11.7	2.0	2.6	8.5	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.2	31.3	23.1	43.0	0.0	0.0	59.3	30.6	20.5	58.3	23.6	16.3
LnGrp LOS	C	C	C	D	A	A	E	C	C	E	C	B
Approach Vol, veh/h		528			256			1265			1078	
Approach Delay, s/veh		30.3			43.0			30.4			26.3	
Approach LOS		C			D			C			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.0	52.3		44.2	7.8	56.5		44.2				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 46		47.2	7.4	48.5		47.2				
Max Q Clear Time (g_c+I1), s	8.0	31.8		23.7	4.3	24.6		37.4				
Green Ext Time (p_c), s	0.0	6.1		2.8	0.0	6.2		1.0				

Intersection Summary		
HCM 6th Ctrl Delay		30.0
HCM 6th LOS		C

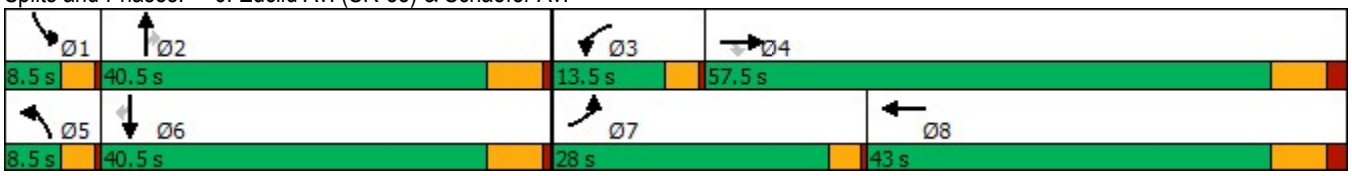
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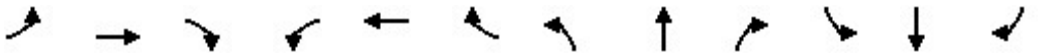
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	227	256	132	43	75	109	941	46	80	892	107
Future Volume (vph)	227	256	132	43	75	109	941	46	80	892	107
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	28.0	57.5	57.5	13.5	43.0	8.5	40.5	40.5	8.5	40.5	40.5
Total Split (%)	23.3%	47.9%	47.9%	11.3%	35.8%	7.1%	33.8%	33.8%	7.1%	33.8%	33.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	17.0	26.7	26.7	10.3	13.5	5.2	33.3	33.3	5.2	33.3	33.3
Actuated g/C Ratio	0.19	0.30	0.30	0.11	0.15	0.06	0.37	0.37	0.06	0.37	0.37
v/c Ratio	0.77	0.49	0.25	0.24	0.49	1.20	0.76	0.07	0.88	0.72	0.17
Control Delay	53.6	30.2	5.3	46.2	32.3	201.4	31.9	0.2	114.8	30.7	4.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.6	30.2	5.3	46.2	32.3	201.4	31.9	0.2	114.8	30.7	4.1
LOS	D	C	A	D	C	F	C	A	F	C	A
Approach Delay		33.5			35.7		47.4			34.3	
Approach LOS		C			D		D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 89.7	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.20	
Intersection Signal Delay: 39.0	Intersection LOS: D
Intersection Capacity Utilization 73.1%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	227	256	132	43	75	59	109	941	46	80	892	107
Future Volume (veh/h)	227	256	132	43	75	59	109	941	46	80	892	107
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	234	264	71	44	77	55	112	970	40	82	920	65
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	276	368	312	134	113	81	118	1231	549	101	1197	522
Arrive On Green	0.17	0.20	0.20	0.08	0.12	0.12	0.07	0.36	0.36	0.06	0.35	0.35
Sat Flow, veh/h	1619	1800	1525	1619	976	697	1619	3420	1525	1619	3420	1491
Grp Volume(v), veh/h	234	264	71	44	0	132	112	970	40	82	920	65
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1672	1619	1710	1525	1619	1710	1491
Q Serve(g_s), s	9.6	9.4	2.7	1.8	0.0	5.2	4.7	17.5	1.2	3.4	16.5	2.0
Cycle Q Clear(g_c), s	9.6	9.4	2.7	1.8	0.0	5.2	4.7	17.5	1.2	3.4	16.5	2.0
Prop In Lane	1.00		1.00	1.00		0.42	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	276	368	312	134	0	194	118	1231	549	101	1197	522
V/C Ratio(X)	0.85	0.72	0.23	0.33	0.00	0.68	0.95	0.79	0.07	0.81	0.77	0.12
Avail Cap(c_a), veh/h	576	1320	1119	235	0	874	118	1713	764	118	1713	747
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.7	25.5	22.9	29.8	0.0	29.2	31.8	19.7	14.5	31.9	19.9	15.2
Incr Delay (d2), s/veh	2.8	2.0	0.3	0.5	0.0	3.1	67.5	1.7	0.1	25.7	1.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.6	3.8	0.9	0.7	0.0	2.1	3.9	5.9	0.4	1.9	5.5	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.4	27.5	23.1	30.3	0.0	32.3	99.4	21.4	14.5	57.6	21.3	15.3
LnGrp LOS	C	C	C	C	A	C	F	C	B	E	C	B
Approach Vol, veh/h		569			176			1122			1067	
Approach Delay, s/veh		28.2			31.8			28.9			23.7	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.8	30.8	9.2	21.1	8.5	30.1	15.3	15.0
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	34.5	10.0	50.5	5.0	34.5	24.5	36.0
Max Q Clear Time (g_c+I1), s	5.4	19.5	3.8	11.4	6.7	18.5	11.6	7.2
Green Ext Time (p_c), s	0.0	5.3	0.0	1.3	0.0	5.2	0.2	0.5

Intersection Summary	
HCM 6th Ctrl Delay	27.0
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	11	841	5	0	1035
Future Vol, veh/h	0	11	841	5	0	1035
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	12	914	5	0	1125

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	460	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	554	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	554	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	11.6	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	554	-
HCM Lane V/C Ratio	-	-	0.022	-
HCM Control Delay (s)	-	-	11.6	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	37	808	14	0	1035
Future Vol, veh/h	0	37	808	14	0	1035
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	40	878	15	0	1125

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	447	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	564	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	564	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	11.9	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	564	-
HCM Lane V/C Ratio	-	-	0.071	-
HCM Control Delay (s)	-	-	11.9	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0.2	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	35	788	17	0	1035
Future Vol, veh/h	0	35	788	17	0	1035
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	38	857	18	0	1125

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	438	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	572	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	572	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	11.7	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	572	-
HCM Lane V/C Ratio	-	-	0.067	-
HCM Control Delay (s)	-	-	11.7	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0.2	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	45	760	48	0	1035
Future Vol, veh/h	0	45	760	48	0	1035
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	49	826	52	0	1125

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	439	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	571	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	571	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

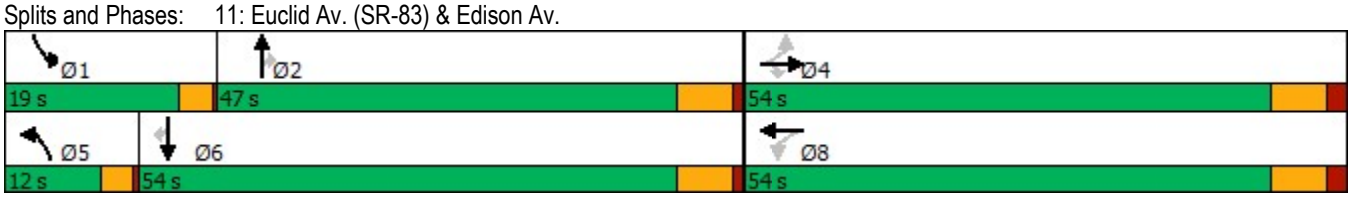
Approach	WB	NB	SB
HCM Control Delay, s	11.9	0	0
HCM LOS	B		

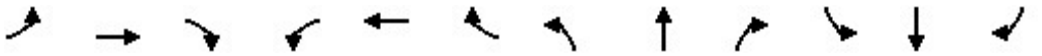
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	571	-
HCM Lane V/C Ratio	-	-	0.086	-
HCM Control Delay (s)	-	-	11.9	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0.3	-

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	235	449	152	79	203	89	743	66	168	695	174
Future Volume (vph)	235	449	152	79	203	89	743	66	168	695	174
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	35.4	35.4	35.4	35.4	35.4	7.2	28.2	28.2	13.9	37.6	37.6
Actuated g/C Ratio	0.37	0.37	0.37	0.37	0.37	0.08	0.30	0.30	0.15	0.40	0.40
v/c Ratio	0.81	0.68	0.23	0.41	0.50	0.38	0.75	0.13	0.72	0.52	0.25
Control Delay	50.9	31.8	4.6	31.6	24.6	53.0	36.5	2.6	61.8	25.8	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	50.9	31.8	4.6	31.6	24.6	53.0	36.5	2.6	61.8	25.8	4.6
LOS	D	C	A	C	C	D	D	A	E	C	A
Approach Delay		32.2			26.0		35.7			28.1	
Approach LOS		C			C		D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 95	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.81	
Intersection Signal Delay: 31.1	Intersection LOS: C
Intersection Capacity Utilization 85.9%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	235	449	152	79	203	115	89	743	66	168	695	174
Future Volume (veh/h)	235	449	152	79	203	115	89	743	66	168	695	174
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	240	458	104	81	207	106	91	758	57	171	709	127
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	358	759	643	250	471	241	153	946	411	201	1204	530
Arrive On Green	0.42	0.42	0.42	0.42	0.42	0.42	0.05	0.28	0.28	0.12	0.35	0.35
Sat Flow, veh/h	969	1800	1525	771	1116	572	3141	3420	1487	1619	3420	1506
Grp Volume(v), veh/h	240	458	104	81	0	313	91	758	57	171	709	127
Grp Sat Flow(s),veh/h/ln	969	1800	1525	771	0	1688	1570	1710	1487	1619	1710	1506
Q Serve(g_s), s	21.7	18.3	3.9	8.5	0.0	12.2	2.6	19.1	2.7	9.6	15.7	5.5
Cycle Q Clear(g_c), s	33.9	18.3	3.9	26.8	0.0	12.2	2.6	19.1	2.7	9.6	15.7	5.5
Prop In Lane	1.00		1.00	1.00		0.34	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	358	759	643	250	0	712	153	946	411	201	1204	530
V/C Ratio(X)	0.67	0.60	0.16	0.32	0.00	0.44	0.59	0.80	0.14	0.85	0.59	0.24
Avail Cap(c_a), veh/h	440	911	772	315	0	854	288	1510	657	270	1768	779
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.1	20.8	16.7	31.2	0.0	19.1	43.3	31.2	25.3	39.8	24.6	21.3
Incr Delay (d2), s/veh	2.9	0.8	0.1	0.7	0.0	0.4	1.4	1.7	0.2	13.7	0.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.0	7.1	1.3	1.5	0.0	4.4	1.0	7.3	0.9	4.3	5.7	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	34.0	21.6	16.8	32.0	0.0	19.5	44.6	32.9	25.4	53.5	25.0	21.5
LnGrp LOS	C	C	B	C	A	B	D	C	C	D	C	C
Approach Vol, veh/h		802			394			906			1007	
Approach Delay, s/veh		24.7			22.1			33.6			29.4	
Approach LOS		C			C			C			C	

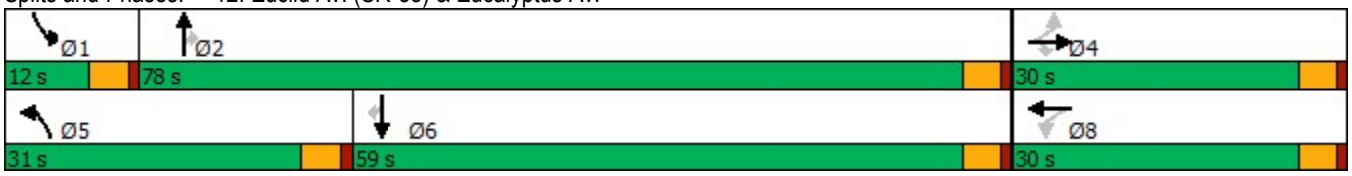
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.0	31.7		46.1	8.0	38.7		46.1				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	11.6	21.1		35.9	4.6	17.7		28.8				
Green Ext Time (p_c), s	0.1	4.6		3.2	0.0	4.9		2.1				

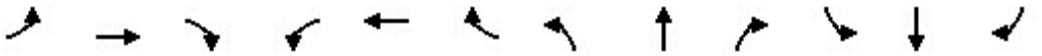
Intersection Summary			
HCM 6th Ctrl Delay		28.5	
HCM 6th LOS		C	

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	46	130	182	5	22	88	970	19	47	1146	60
Future Volume (vph)	46	130	182	5	22	88	970	19	47	1146	60
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	30.0	30.0	30.0	30.0	30.0	31.0	78.0	78.0	12.0	59.0	59.0
Total Split (%)	25.0%	25.0%	25.0%	25.0%	25.0%	25.8%	65.0%	65.0%	10.0%	49.2%	49.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	12.0	12.0	12.0	12.0	12.0	10.5	38.4	38.4	7.4	33.1	33.1
Actuated g/C Ratio	0.18	0.18	0.18	0.18	0.18	0.16	0.58	0.58	0.11	0.50	0.50
v/c Ratio	0.21	0.42	0.44	0.02	0.11	0.36	0.51	0.02	0.27	0.70	0.08
Control Delay	31.3	33.4	9.0	29.4	23.0	35.0	10.5	0.1	39.2	17.0	1.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	31.3	33.4	9.0	29.4	23.0	35.0	10.5	0.1	39.2	17.0	1.3
LOS	C	C	A	C	C	D	B	A	D	B	A
Approach Delay		20.7			23.8		12.3			17.1	
Approach LOS		C			C		B			B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 66.6	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.70	
Intersection Signal Delay: 15.8	Intersection LOS: B
Intersection Capacity Utilization 60.8%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	46	130	182	5	22	11	88	970	19	47	1146	60
Future Volume (veh/h)	46	130	182	5	22	11	88	970	19	47	1146	60
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	48	135	95	5	23	8	92	1010	18	49	1194	51
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	298	239	202	217	169	59	120	1821	812	81	1739	775
Arrive On Green	0.13	0.13	0.13	0.13	0.13	0.13	0.07	0.53	0.53	0.05	0.51	0.51
Sat Flow, veh/h	1253	1800	1525	1046	1276	444	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	48	135	95	5	0	31	92	1010	18	49	1194	51
Grp Sat Flow(s),veh/h/ln	1253	1800	1525	1046	0	1720	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	1.7	3.3	2.7	0.2	0.0	0.8	2.6	9.3	0.3	1.4	12.5	0.8
Cycle Q Clear(g_c), s	2.4	3.3	2.7	3.5	0.0	0.8	2.6	9.3	0.3	1.4	12.5	0.8
Prop In Lane	1.00		1.00	1.00		0.26	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	298	239	202	217	0	228	120	1821	812	81	1739	775
V/C Ratio(X)	0.16	0.57	0.47	0.02	0.00	0.14	0.77	0.55	0.02	0.60	0.69	0.07
Avail Cap(c_a), veh/h	806	968	820	641	0	925	905	5301	2365	256	3931	1752
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.2	19.3	19.0	20.9	0.0	18.2	21.6	7.4	5.2	22.1	8.8	5.9
Incr Delay (d2), s/veh	0.3	2.1	1.7	0.0	0.0	0.3	9.8	0.3	0.0	7.0	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	1.3	0.9	0.0	0.0	0.3	1.1	1.6	0.0	0.6	2.4	0.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	19.5	21.4	20.7	21.0	0.0	18.4	31.3	7.6	5.3	29.1	9.3	6.0
LnGrp LOS	B	C	C	C	A	B	C	A	A	C	A	A
Approach Vol, veh/h		278			36			1120			1294	
Approach Delay, s/veh		20.8			18.8			9.5			9.9	
Approach LOS		C			B			A			A	

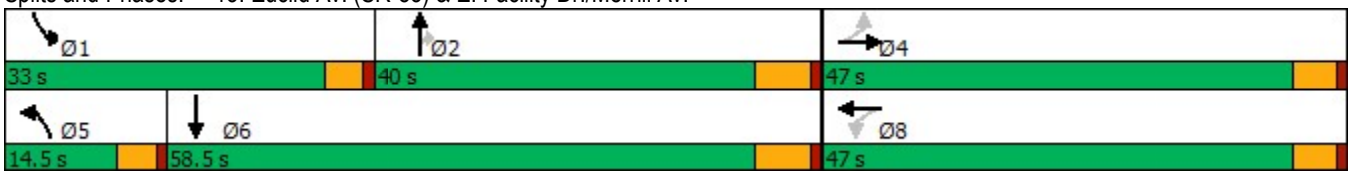
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	6.9	29.8		10.8	8.0	28.6		10.8				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	7.5	73.5		25.5	26.5	54.5		25.5				
Max Q Clear Time (g_c+I1), s	3.4	11.3		5.3	4.6	14.5		5.5				
Green Ext Time (p_c), s	0.0	7.6		1.1	0.2	9.6		0.1				

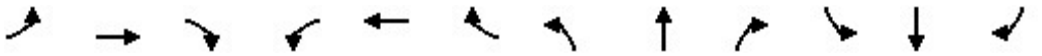
Intersection Summary			
HCM 6th Ctrl Delay		11.0	
HCM 6th LOS		B	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	3	19	128	0	1	883	171	228	1095
Future Volume (vph)	3	19	128	0	1	883	171	228	1095
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	47.0	47.0	47.0	47.0	14.5	40.0	40.0	33.0	58.5
Total Split (%)	39.2%	39.2%	39.2%	39.2%	12.1%	33.3%	33.3%	27.5%	48.8%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		22.2		22.2	10.5	30.1	30.1	17.4	50.2
Actuated g/C Ratio		0.26		0.26	0.12	0.35	0.35	0.20	0.58
v/c Ratio		0.07		0.74	0.01	0.76	0.30	0.72	0.57
Control Delay		21.4		31.1	45.0	31.9	13.3	47.4	15.1
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		21.4		31.1	45.0	31.9	13.3	47.4	15.1
LOS		C		C	D	C	B	D	B
Approach Delay		21.4		31.1		28.9			20.6
Approach LOS		C		C		C			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 86	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.76	
Intersection Signal Delay: 25.1	Intersection LOS: C
Intersection Capacity Utilization 80.1%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	3	19	8	128	0	191	1	883	171	228	1095	10
Future Volume (veh/h)	3	19	8	128	0	191	1	883	171	228	1095	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	3	20	4	132	0	168	1	910	142	235	1129	8
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	79	340	62	217	17	197	4	1197	523	279	1809	13
Arrive On Green	0.24	0.24	0.24	0.24	0.00	0.24	0.00	0.35	0.35	0.17	0.52	0.52
Sat Flow, veh/h	74	1408	258	569	71	815	1619	3420	1493	1619	3481	25
Grp Volume(v), veh/h	27	0	0	300	0	0	1	910	142	235	555	582
Grp Sat Flow(s),veh/h/ln	1739	0	0	1455	0	0	1619	1710	1493	1619	1710	1796
Q Serve(g_s), s	0.0	0.0	0.0	11.3	0.0	0.0	0.0	15.5	4.5	9.2	15.1	15.1
Cycle Q Clear(g_c), s	0.8	0.0	0.0	12.9	0.0	0.0	0.0	15.5	4.5	9.2	15.1	15.1
Prop In Lane	0.11		0.15	0.44		0.56	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	481	0	0	430	0	0	4	1197	523	279	889	933
V/C Ratio(X)	0.06	0.00	0.00	0.70	0.00	0.00	0.22	0.76	0.27	0.84	0.62	0.62
Avail Cap(c_a), veh/h	1139	0	0	1001	0	0	246	1770	773	703	1367	1435
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	19.2	0.0	0.0	23.7	0.0	0.0	32.7	18.9	15.3	26.3	11.2	11.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.8	0.0	0.0	9.1	1.1	0.3	2.6	0.7	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.0	3.9	0.0	0.0	0.0	5.0	1.3	3.2	4.1	4.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	19.2	0.0	0.0	24.5	0.0	0.0	41.8	20.0	15.6	29.0	11.9	11.9
LnGrp LOS	B	A	A	C	A	A	D	C	B	C	B	B
Approach Vol, veh/h		27			300			1053			1372	
Approach Delay, s/veh		19.2			24.5			19.5			14.8	
Approach LOS		B			C			B			B	

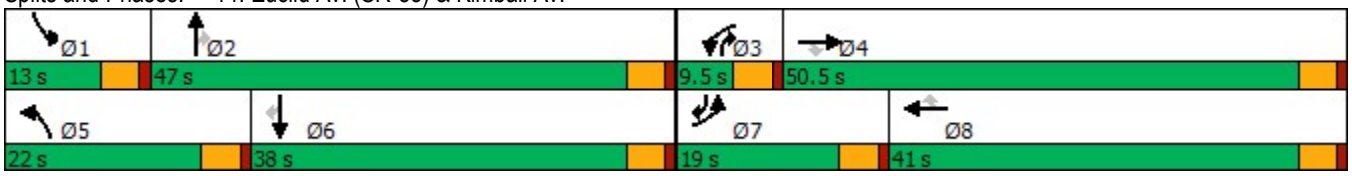
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.8	29.0		20.9	4.7	40.1		20.9				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	28.5	34.0		42.0	10.0	52.5		42.0				
Max Q Clear Time (g_c+I1), s	11.2	17.5		2.8	2.0	17.1		14.9				
Green Ext Time (p_c), s	0.3	5.5		0.1	0.0	7.4		1.0				

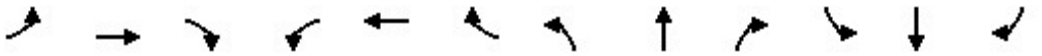
Intersection Summary			
HCM 6th Ctrl Delay		17.7	
HCM 6th LOS		B	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	337	819	31	45	361	155	59	508	161	480	496	230
Future Volume (vph)	337	819	31	45	361	155	59	508	161	480	496	230
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	19.0	50.5	50.5	9.5	41.0	41.0	22.0	47.0	9.5	13.0	38.0	19.0
Total Split (%)	15.8%	42.1%	42.1%	7.9%	34.2%	34.2%	18.3%	39.2%	7.9%	10.8%	31.7%	15.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	14.7	26.6	26.6	5.1	17.1	17.1	8.7	18.8	28.6	8.7	21.4	36.1
Actuated g/C Ratio	0.19	0.34	0.34	0.07	0.22	0.22	0.11	0.24	0.37	0.11	0.28	0.46
v/c Ratio	0.62	0.72	0.05	0.43	0.49	0.33	0.33	0.63	0.26	1.48	0.54	0.28
Control Delay	37.7	26.5	0.2	53.9	29.1	5.4	40.5	30.4	9.7	261.9	28.9	3.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	37.7	26.5	0.2	53.9	29.1	5.4	40.5	30.4	9.7	261.9	28.9	3.2
LOS	D	C	A	D	C	A	D	C	A	F	C	A
Approach Delay		28.9			24.5			26.6			116.7	
Approach LOS		C			C			C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 77.8	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.48	
Intersection Signal Delay: 56.6	Intersection LOS: E
Intersection Capacity Utilization 74.1%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	337	819	31	45	361	155	59	508	161	480	496	230
Future Volume (veh/h)	337	819	31	45	361	155	59	508	161	480	496	230
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	344	836	20	46	368	87	60	518	122	490	506	193
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	444	1146	511	70	780	348	82	758	404	379	1025	680
Arrive On Green	0.15	0.34	0.34	0.04	0.23	0.23	0.05	0.22	0.22	0.13	0.30	0.30
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	344	836	20	46	368	87	60	518	122	490	506	193
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	7.4	14.2	0.6	1.9	6.2	3.1	2.4	9.2	4.2	8.5	8.1	5.4
Cycle Q Clear(g_c), s	7.4	14.2	0.6	1.9	6.2	3.1	2.4	9.2	4.2	8.5	8.1	5.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	444	1146	511	70	780	348	82	758	404	379	1025	680
V/C Ratio(X)	0.78	0.73	0.04	0.66	0.47	0.25	0.73	0.68	0.30	1.29	0.49	0.28
Avail Cap(c_a), veh/h	647	2375	1059	122	1885	841	428	2194	1045	379	1730	991
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.1	19.4	14.8	31.2	22.1	20.9	31.0	23.6	19.5	28.9	19.1	11.5
Incr Delay (d2), s/veh	3.6	0.9	0.0	10.1	0.4	0.4	12.0	1.1	0.4	149.7	0.4	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	4.9	0.2	0.9	2.2	1.0	1.1	3.3	1.4	10.5	2.7	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.7	20.3	14.9	41.3	22.6	21.3	43.0	24.7	19.9	178.5	19.4	11.7
LnGrp LOS	C	C	B	D	C	C	D	C	B	F	B	B
Approach Vol, veh/h		1200			501			700			1189	
Approach Delay, s/veh		23.2			24.1			25.5			83.8	
Approach LOS		C			C			C			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.0	19.2	7.4	26.7	7.8	24.3	14.4	19.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.5	42.5	5.0	46.0	17.5	33.5	14.5	36.5
Max Q Clear Time (g_c+I1), s	10.5	11.2	3.9	16.2	4.4	10.1	9.4	8.2
Green Ext Time (p_c), s	0.0	3.5	0.0	5.9	0.1	3.5	0.5	2.5

Intersection Summary	
HCM 6th Ctrl Delay	43.8
HCM 6th LOS	D

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	380	2	0	175	0	6
Future Vol, veh/h	380	2	0	175	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	413	2	0	190	0	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	414
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	643
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	643
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	10.7
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	643	-	-	-
HCM Lane V/C Ratio	0.01	-	-	-
HCM Control Delay (s)	10.7	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	375	11	1	162	13	6
Future Vol, veh/h	375	11	1	162	13	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	408	12	1	176	14	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	420	0	592	414
Stage 1	-	-	-	-	414	-
Stage 2	-	-	-	-	178	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1150	-	472	643
Stage 1	-	-	-	-	671	-
Stage 2	-	-	-	-	858	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1150	-	472	643
Mov Cap-2 Maneuver	-	-	-	-	551	-
Stage 1	-	-	-	-	671	-
Stage 2	-	-	-	-	857	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	11.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	577	-	-	1150	-
HCM Lane V/C Ratio	0.036	-	-	0.001	-
HCM Control Delay (s)	11.5	-	-	8.1	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	379	2	0	163	0	6
Future Vol, veh/h	379	2	0	163	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	412	2	0	177	0	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	413
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	643
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	643
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	10.7
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	643	-	-	-
HCM Lane V/C Ratio	0.01	-	-	-
HCM Control Delay (s)	10.7	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	0.7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	679	322	82	0	75
Future Vol, veh/h	0	679	322	82	0	75
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	738	350	89	0	82

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	395
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	659
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	659
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	11.2
HCM LOS			B

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	659
HCM Lane V/C Ratio	-	-	-	0.124
HCM Control Delay (s)	-	-	-	11.2
HCM Lane LOS	-	-	-	B
HCM 95th %tile Q(veh)	-	-	-	0.4

Intersection	
Int Delay, s/veh	7

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	188	492	335	68	138	68
Future Vol, veh/h	188	492	335	68	138	68
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	204	535	364	74	150	74

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	438	0	-	0	1344	401
Stage 1	-	-	-	-	401	-
Stage 2	-	-	-	-	943	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1133	-	-	-	169	653
Stage 1	-	-	-	-	681	-
Stage 2	-	-	-	-	382	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1133	-	-	-	~ 139	653
Mov Cap-2 Maneuver	-	-	-	-	267	-
Stage 1	-	-	-	-	558	-
Stage 2	-	-	-	-	382	-

Approach	EB	WB	SB
HCM Control Delay, s	2.5	0	35.6
HCM LOS			E

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	1133	-	-	-	332
HCM Lane V/C Ratio	0.18	-	-	-	0.674
HCM Control Delay (s)	8.9	-	-	-	35.6
HCM Lane LOS	A	-	-	-	E
HCM 95th %tile Q(veh)	0.7	-	-	-	4.6

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑	↱			↗
Traffic Vol, veh/h	0	629	389	9	0	13
Future Vol, veh/h	0	629	389	9	0	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	684	423	10	0	14

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	428
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	631
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	631
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	10.8
HCM LOS			B

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	631
HCM Lane V/C Ratio	-	-	-	0.022
HCM Control Delay (s)	-	-	-	10.8
HCM Lane LOS	-	-	-	B
HCM 95th %tile Q(veh)	-	-	-	0.1

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	368	18	5	154	9	3
Future Vol, veh/h	368	18	5	154	9	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	400	20	5	167	10	3

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	420	0	587	410
Stage 1	-	-	-	-	410	-
Stage 2	-	-	-	-	177	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1150	-	475	646
Stage 1	-	-	-	-	674	-
Stage 2	-	-	-	-	859	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1150	-	473	646
Mov Cap-2 Maneuver	-	-	-	-	552	-
Stage 1	-	-	-	-	674	-
Stage 2	-	-	-	-	856	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.3	11.4
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	573	-	-	1150	-
HCM Lane V/C Ratio	0.023	-	-	0.005	-
HCM Control Delay (s)	11.4	-	-	8.1	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0	-

Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	28	4	8	12	11
Future Vol, veh/h	4	28	4	8	12	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	30	4	9	13	12

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	36	19	25	0	-	0
Stage 1	19	-	-	-	-	-
Stage 2	17	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	982	1065	1603	-	-	-
Stage 1	1009	-	-	-	-	-
Stage 2	1011	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	980	1065	1603	-	-	-
Mov Cap-2 Maneuver	908	-	-	-	-	-
Stage 1	1007	-	-	-	-	-
Stage 2	1011	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	2.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1603	-	1042	-	-
HCM Lane V/C Ratio	0.003	-	0.033	-	-
HCM Control Delay (s)	7.3	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	5	6	1	7	36	3
Future Vol, veh/h	5	6	1	7	36	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	5	7	1	8	39	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	51	41	42	0	-	0
Stage 1	41	-	-	-	-	-
Stage 2	10	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	963	1036	1580	-	-	-
Stage 1	987	-	-	-	-	-
Stage 2	1018	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	962	1036	1580	-	-	-
Mov Cap-2 Maneuver	893	-	-	-	-	-
Stage 1	986	-	-	-	-	-
Stage 2	1018	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.8	0.9	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1580	-	966	-	-
HCM Lane V/C Ratio	0.001	-	0.012	-	-
HCM Control Delay (s)	7.3	-	8.8	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	3	7	1	5	39	3
Future Vol, veh/h	3	7	1	5	39	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	8	1	5	42	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	51	44	45	0	-	0
Stage 1	44	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	963	1032	1576	-	-	-
Stage 1	984	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	962	1032	1576	-	-	-
Mov Cap-2 Maneuver	892	-	-	-	-	-
Stage 1	983	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.7	1.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1576	-	986	-	-
HCM Lane V/C Ratio	0.001	-	0.011	-	-
HCM Control Delay (s)	7.3	-	8.7	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	11	3	7	46	0
Future Vol, veh/h	0	11	3	7	46	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	12	3	8	50	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	64	50	50	0	-	0
Stage 1	50	-	-	-	-	-
Stage 2	14	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	947	1024	1570	-	-	-
Stage 1	978	-	-	-	-	-
Stage 2	1014	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	945	1024	1570	-	-	-
Mov Cap-2 Maneuver	882	-	-	-	-	-
Stage 1	976	-	-	-	-	-
Stage 2	1014	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	2.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1570	-	1024	-	-
HCM Lane V/C Ratio	0.002	-	0.012	-	-
HCM Control Delay (s)	7.3	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	3.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	38	14	10	55	2
Future Vol, veh/h	0	38	14	10	55	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	41	15	11	60	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	102	61	62	0	-	0
Stage 1	61	-	-	-	-	-
Stage 2	41	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	901	1010	1554	-	-	-
Stage 1	967	-	-	-	-	-
Stage 2	987	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	892	1010	1554	-	-	-
Mov Cap-2 Maneuver	849	-	-	-	-	-
Stage 1	957	-	-	-	-	-
Stage 2	987	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.7	4.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1554	-	1010	-	-
HCM Lane V/C Ratio	0.01	-	0.041	-	-
HCM Control Delay (s)	7.3	-	8.7	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	7	18	24	93	0
Future Vol, veh/h	0	7	18	24	93	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	8	20	26	101	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	167	101	101	0	-	0
Stage 1	101	-	-	-	-	-
Stage 2	66	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	828	960	1504	-	-	-
Stage 1	928	-	-	-	-	-
Stage 2	962	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	817	960	1504	-	-	-
Mov Cap-2 Maneuver	799	-	-	-	-	-
Stage 1	916	-	-	-	-	-
Stage 2	962	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.8	3.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1504	-	960	-	-
HCM Lane V/C Ratio	0.013	-	0.008	-	-
HCM Control Delay (s)	7.4	-	8.8	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	17	29	42	100	0
Future Vol, veh/h	0	17	29	42	100	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	18	32	46	109	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	219	109	109	0	-	0
Stage 1	109	-	-	-	-	-
Stage 2	110	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	774	950	1494	-	-	-
Stage 1	921	-	-	-	-	-
Stage 2	920	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	758	950	1494	-	-	-
Mov Cap-2 Maneuver	761	-	-	-	-	-
Stage 1	902	-	-	-	-	-
Stage 2	920	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.9	3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1494	-	950	-	-
HCM Lane V/C Ratio	0.021	-	0.019	-	-
HCM Control Delay (s)	7.5	-	8.9	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

Intersection	
Int Delay, s/veh	1.9

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	6	623	387	65	105	12
Future Vol, veh/h	6	623	387	65	105	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	100
Veh in Median Storage, #	-	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	7	677	421	71	114	13

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	492	0	-	0	1148	457
Stage 1	-	-	-	-	457	-
Stage 2	-	-	-	-	691	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	1082	-	-	-	222	608
Stage 1	-	-	-	-	642	-
Stage 2	-	-	-	-	501	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	1082	-	-	-	221	608
Mov Cap-2 Maneuver	-	-	-	-	355	-
Stage 1	-	-	-	-	638	-
Stage 2	-	-	-	-	501	-

Approach	EB	WB	SB
HCM Control Delay, s	0.1	0	19
HCM LOS			C

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	1082	-	-	-	355	608
HCM Lane V/C Ratio	0.006	-	-	-	0.321	0.021
HCM Control Delay (s)	8.3	-	-	-	19.9	11.1
HCM Lane LOS	A	-	-	-	C	B
HCM 95th %tile Q(veh)	0	-	-	-	1.4	0.1

Intersection	
Intersection Delay, s/veh	14.6
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	56	373	21	8	84	13	26	158	19	16	87	19
Future Vol, veh/h	56	373	21	8	84	13	26	158	19	16	87	19
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	60	397	22	9	89	14	28	168	20	17	93	20
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	18.1	9.8	11.7	10.4
HCM LOS	C	A	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	12%	8%	13%
Vol Thru, %	78%	83%	80%	71%
Vol Right, %	9%	5%	12%	16%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	203	450	105	122
LT Vol	26	56	8	16
Through Vol	158	373	84	87
RT Vol	19	21	13	19
Lane Flow Rate	216	479	112	130
Geometry Grp	1	1	1	1
Degree of Util (X)	0.341	0.676	0.173	0.209
Departure Headway (Hd)	5.681	5.087	5.587	5.81
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	633	709	640	616
Service Time	3.727	3.123	3.64	3.863
HCM Lane V/C Ratio	0.341	0.676	0.175	0.211
HCM Control Delay	11.7	18.1	9.8	10.4
HCM Lane LOS	B	C	A	B
HCM 95th-tile Q	1.5	5.3	0.6	0.8

Intersection	
Intersection Delay, s/veh	107.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	62	700	23	6	359	16	7	120	12	18	72	25
Future Vol, veh/h	62	700	23	6	359	16	7	120	12	18	72	25
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	67	761	25	7	390	17	8	130	13	20	78	27
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	179.9	22	14.1	13.5
HCM LOS	F	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	8%	2%	16%
Vol Thru, %	86%	89%	94%	63%
Vol Right, %	9%	3%	4%	22%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	139	785	381	115
LT Vol	7	62	6	18
Through Vol	120	700	359	72
RT Vol	12	23	16	25
Lane Flow Rate	151	853	414	125
Geometry Grp	1	1	1	1
Degree of Util (X)	0.296	1.336	0.681	0.247
Departure Headway (Hd)	7.82	5.635	6.414	7.887
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	462	648	567	459
Service Time	5.82	3.688	4.414	5.887
HCM Lane V/C Ratio	0.327	1.316	0.73	0.272
HCM Control Delay	14.1	179.9	22	13.5
HCM Lane LOS	B	F	C	B
HCM 95th-tile Q	1.2	35.5	5.2	1

Intersection	
Intersection Delay, s/veh	21.6
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	121	194	91	2	54	45	22	318	31	56	133	34
Future Vol, veh/h	121	194	91	2	54	45	22	318	31	56	133	34
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	133	213	100	2	59	49	24	349	34	62	146	37
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	26.4	11.8	23	14.9
HCM LOS	D	B	C	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	6%	30%	2%	25%
Vol Thru, %	86%	48%	53%	60%
Vol Right, %	8%	22%	45%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	371	406	101	223
LT Vol	22	121	2	56
Through Vol	318	194	54	133
RT Vol	31	91	45	34
Lane Flow Rate	408	446	111	245
Geometry Grp	1	1	1	1
Degree of Util (X)	0.706	0.763	0.211	0.448
Departure Headway (Hd)	6.231	6.155	6.835	6.581
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	579	584	522	544
Service Time	4.291	4.213	4.923	4.653
HCM Lane V/C Ratio	0.705	0.764	0.213	0.45
HCM Control Delay	23	26.4	11.8	14.9
HCM Lane LOS	C	D	B	B
HCM 95th-tile Q	5.7	6.9	0.8	2.3

Intersection	
Intersection Delay, s/veh	184.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	58	636	30	7	337	33	16	267	53	48	145	38
Future Vol, veh/h	58	636	30	7	337	33	16	267	53	48	145	38
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	62	684	32	8	362	35	17	287	57	52	156	41
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	363.6	58.7	47	29.4
HCM LOS	F	F	E	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	8%	2%	21%
Vol Thru, %	79%	88%	89%	63%
Vol Right, %	16%	4%	9%	16%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	336	724	377	231
LT Vol	16	58	7	48
Through Vol	267	636	337	145
RT Vol	53	30	33	38
Lane Flow Rate	361	778	405	248
Geometry Grp	1	1	1	1
Degree of Util (X)	0.83	1.743	0.91	0.61
Departure Headway (Hd)	10.055	8.06	9.713	10.855
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	365	452	377	335
Service Time	8.055	6.134	7.713	8.855
HCM Lane V/C Ratio	0.989	1.721	1.074	0.74
HCM Control Delay	47	363.6	58.7	29.4
HCM Lane LOS	E	F	F	D
HCM 95th-tile Q	7.4	47.2	9.4	3.8

Intersection	
Intersection Delay, s/veh	145
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	19	699	5	8	351	64	1	92	121	152	51	17
Future Vol, veh/h	19	699	5	8	351	64	1	92	121	152	51	17
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	21	760	5	9	382	70	1	100	132	165	55	18
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

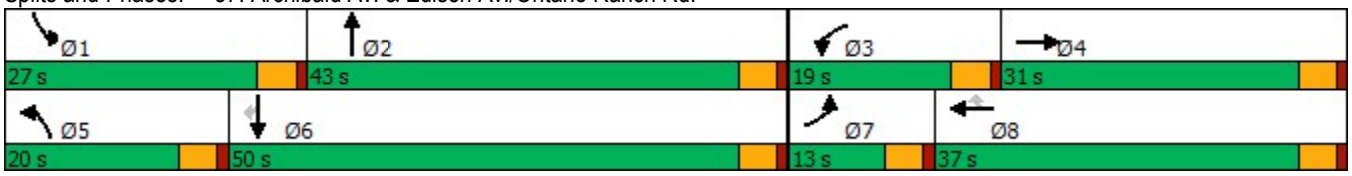
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	274.3	50.2	21.1	23.1
HCM LOS	F	F	C	C

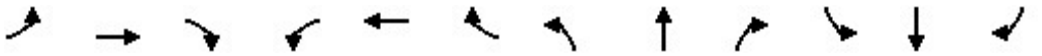
Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	3%	2%	69%
Vol Thru, %	43%	97%	83%	23%
Vol Right, %	57%	1%	15%	8%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	214	723	423	220
LT Vol	1	19	8	152
Through Vol	92	699	351	51
RT Vol	121	5	64	17
Lane Flow Rate	233	786	460	239
Geometry Grp	1	1	1	1
Degree of Util (X)	0.505	1.545	0.901	0.542
Departure Headway (Hd)	9.13	7.077	8.07	9.461
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	398	511	455	385
Service Time	7.13	5.162	6.07	7.461
HCM Lane V/C Ratio	0.585	1.538	1.011	0.621
HCM Control Delay	21.1	274.3	50.2	23.1
HCM Lane LOS	C	F	F	C
HCM 95th-tile Q	2.8	41.3	9.8	3.1

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	112	633	282	243	285	106	111	744	293	147	753	76
Future Volume (vph)	112	633	282	243	285	106	111	744	293	147	753	76
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	13.0	31.0		19.0	37.0	37.0	20.0	43.0		27.0	50.0	50.0
Total Split (%)	10.8%	25.8%		15.8%	30.8%	30.8%	16.7%	35.8%		22.5%	41.7%	41.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	8.2	23.1	97.5	12.9	27.8	27.8	12.1	27.8	97.5	15.0	30.7	30.7
Actuated g/C Ratio	0.08	0.24	1.00	0.13	0.29	0.29	0.12	0.29	1.00	0.15	0.31	0.31
v/c Ratio	0.46	0.78	0.19	0.64	0.58	0.21	0.58	0.76	0.20	0.62	0.70	0.14
Control Delay	53.8	43.8	0.3	51.1	37.3	4.4	56.5	38.1	0.3	52.9	33.4	0.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.8	43.8	0.3	51.1	37.3	4.4	56.5	38.1	0.3	52.9	33.4	0.9
LOS	D	D	A	D	D	A	E	D	A	D	C	A
Approach Delay		32.9			37.1			30.2			33.8	
Approach LOS		C			D			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 97.5	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.78	
Intersection Signal Delay: 33.0	Intersection LOS: C
Intersection Capacity Utilization 72.5%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	112	633	282	243	285	106	111	744	293	147	753	76
Future Volume (veh/h)	112	633	282	243	285	106	111	744	293	147	753	76
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	118	666	0	256	300	70	117	783	0	155	793	61
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	186	865		345	526	446	147	1034		193	1135	481
Arrive On Green	0.06	0.24	0.00	0.11	0.29	0.29	0.09	0.29	0.00	0.12	0.32	0.32
Sat Flow, veh/h	3048	3600	1525	3048	1800	1524	1619	3600	1525	1619	3600	1525
Grp Volume(v), veh/h	118	666	0	256	300	70	117	783	0	155	793	61
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1524	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	2.8	12.9	0.0	6.1	10.6	2.6	5.3	14.8	0.0	7.0	14.5	2.1
Cycle Q Clear(g_c), s	2.8	12.9	0.0	6.1	10.6	2.6	5.3	14.8	0.0	7.0	14.5	2.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	186	865		345	526	446	147	1034		193	1135	481
V/C Ratio(X)	0.63	0.77		0.74	0.57	0.16	0.80	0.76		0.80	0.70	0.13
Avail Cap(c_a), veh/h	346	1274		590	781	662	335	1851		487	2188	927
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.3	26.5	0.0	32.1	22.5	19.6	33.4	24.3	0.0	32.1	22.5	18.3
Incr Delay (d2), s/veh	3.5	1.7	0.0	3.2	1.0	0.2	9.4	1.2	0.0	7.7	0.8	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	5.1	0.0	2.2	4.1	0.8	2.3	5.6	0.0	2.9	5.3	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	37.9	28.2	0.0	35.3	23.5	19.8	42.7	25.5	0.0	39.8	23.3	18.4
LnGrp LOS	D	C		D	C	B	D	C		D	C	B
Approach Vol, veh/h		784	A		626			900	A		1009	
Approach Delay, s/veh		29.7			27.9			27.7			25.5	
Approach LOS		C			C			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.4	26.0	13.0	22.5	11.3	28.1	9.1	26.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	22.5	38.5	14.5	26.5	15.5	45.5	8.5	32.5
Max Q Clear Time (g_c+I1), s	9.0	16.8	8.1	14.9	7.3	16.5	4.8	12.6
Green Ext Time (p_c), s	0.3	4.7	0.4	3.1	0.1	5.3	0.1	1.6

Intersection Summary	
HCM 6th Ctrl Delay	27.5
HCM 6th LOS	C

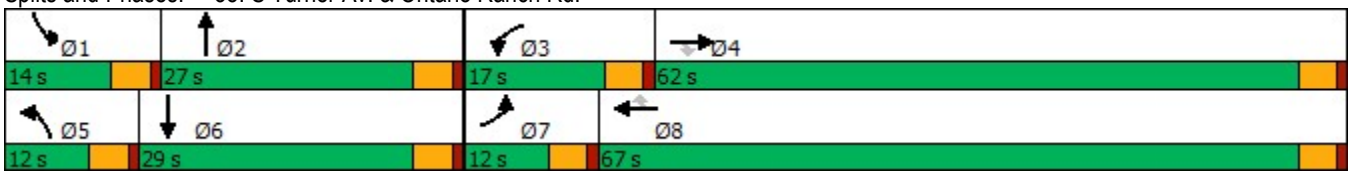
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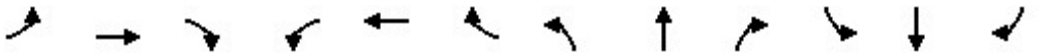
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	23	1047	44	55	731	25	16	11	41	28
Future Volume (vph)	23	1047	44	55	731	25	16	11	41	28
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	27.0	14.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	22.5%	11.7%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.8	31.2	31.2	9.3	34.4	34.4	7.5	8.9	8.5	13.4
Actuated g/C Ratio	0.12	0.49	0.49	0.15	0.54	0.54	0.12	0.14	0.13	0.21
v/c Ratio	0.11	0.64	0.05	0.23	0.41	0.03	0.08	0.16	0.18	0.12
Control Delay	40.1	16.9	0.1	36.9	11.3	0.1	40.1	20.0	38.3	21.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	40.1	16.9	0.1	36.9	11.3	0.1	40.1	20.0	38.3	21.4
LOS	D	B	A	D	B	A	D	B	D	C
Approach Delay		16.8			12.6			25.9		29.6
Approach LOS		B			B			C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 64	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.64	
Intersection Signal Delay: 15.9	Intersection LOS: B
Intersection Capacity Utilization 53.3%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	1047	44	55	731	25	16	11	27	41	28	16
Future Volume (veh/h)	23	1047	44	55	731	25	16	11	27	41	28	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	25	1126	42	59	786	24	17	12	17	44	30	15
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	53	1673	746	99	1766	788	38	67	96	82	142	71
Arrive On Green	0.03	0.46	0.46	0.05	0.49	0.49	0.02	0.09	0.09	0.05	0.12	0.12
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	711	1007	1810	1195	597
Grp Volume(v), veh/h	25	1126	42	59	786	24	17	0	29	44	0	45
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1719	1810	0	1792
Q Serve(g_s), s	0.7	12.8	0.8	1.7	7.5	0.4	0.5	0.0	0.8	1.3	0.0	1.2
Cycle Q Clear(g_c), s	0.7	12.8	0.8	1.7	7.5	0.4	0.5	0.0	0.8	1.3	0.0	1.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.59	1.00		0.33
Lane Grp Cap(c), veh/h	53	1673	746	99	1766	788	38	0	163	82	0	213
V/C Ratio(X)	0.48	0.67	0.06	0.59	0.44	0.03	0.45	0.00	0.18	0.54	0.00	0.21
Avail Cap(c_a), veh/h	258	3940	1757	429	4283	1910	258	0	734	326	0	834
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	25.2	11.0	7.8	24.3	8.8	7.0	25.5	0.0	21.9	24.6	0.0	21.0
Incr Delay (d2), s/veh	6.5	0.5	0.0	5.6	0.2	0.0	8.1	0.0	0.5	5.4	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	3.6	0.2	0.8	2.0	0.1	0.3	0.0	0.3	0.6	0.0	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.7	11.5	7.8	29.9	9.0	7.0	33.6	0.0	22.5	30.1	0.0	21.5
LnGrp LOS	C	B	A	C	A	A	C	A	C	C	A	C
Approach Vol, veh/h		1193			869			46			89	
Approach Delay, s/veh		11.8			10.3			26.6			25.7	
Approach LOS		B			B			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	6.9	9.5	7.4	28.9	5.6	10.8	6.0	30.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.5	22.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	3.3	2.8	3.7	14.8	2.5	3.2	2.7	9.5
Green Ext Time (p_c), s	0.0	0.1	0.1	9.6	0.0	0.1	0.0	5.9

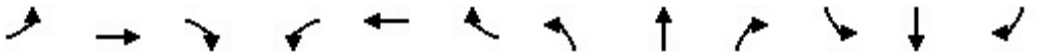
Intersection Summary	
HCM 6th Ctrl Delay	12.1
HCM 6th LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	150	898	35	221	707	192	18	179	68	196	306	54
Future Volume (vph)	150	898	35	221	707	192	18	179	68	196	306	54
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	27.0	33.0	33.0	22.0	28.0	28.0	11.0	32.0	32.0	33.0	54.0	54.0
Total Split (%)	22.5%	27.5%	27.5%	18.3%	23.3%	23.3%	9.2%	26.7%	26.7%	27.5%	45.0%	45.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	14.8	24.2	24.2	12.9	22.3	22.3	6.4	15.5	15.5	17.6	34.2	34.2
Actuated g/C Ratio	0.17	0.27	0.27	0.14	0.25	0.25	0.07	0.17	0.17	0.20	0.38	0.38
v/c Ratio	0.60	0.72	0.07	0.56	0.49	0.40	0.17	0.61	0.18	0.66	0.48	0.09
Control Delay	47.3	34.5	0.3	43.7	31.7	7.7	50.4	45.6	1.0	45.8	25.6	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.3	34.5	0.3	43.7	31.7	7.7	50.4	45.6	1.0	45.8	25.6	0.3
LOS	D	C	A	D	C	A	D	D	A	D	C	A
Approach Delay		35.2			30.0			34.5			30.2	
Approach LOS		D			C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 89.1	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.72	
Intersection Signal Delay: 32.3	Intersection LOS: C
Intersection Capacity Utilization 63.0%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	150	898	35	221	707	192	18	179	68	196	306	54
Future Volume (veh/h)	150	898	35	221	707	192	18	179	68	196	306	54
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	161	966	23	238	760	138	19	192	39	211	329	34
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	203	1421	441	341	1728	420	36	278	235	261	527	444
Arrive On Green	0.13	0.29	0.29	0.12	0.28	0.28	0.02	0.15	0.15	0.16	0.29	0.29
Sat Flow, veh/h	1619	4914	1525	2956	6192	1504	1619	1800	1522	1619	1800	1518
Grp Volume(v), veh/h	161	966	23	238	760	138	19	192	39	211	329	34
Grp Sat Flow(s),veh/h/ln	1619	1638	1525	1478	1548	1504	1619	1800	1522	1619	1800	1518
Q Serve(g_s), s	6.2	11.2	0.7	5.0	6.5	4.7	0.7	6.5	1.4	8.1	10.1	1.0
Cycle Q Clear(g_c), s	6.2	11.2	0.7	5.0	6.5	4.7	0.7	6.5	1.4	8.1	10.1	1.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	203	1421	441	341	1728	420	36	278	235	261	527	444
V/C Ratio(X)	0.79	0.68	0.05	0.70	0.44	0.33	0.52	0.69	0.17	0.81	0.62	0.08
Avail Cap(c_a), veh/h	568	2183	678	806	2268	551	164	772	653	719	1389	1171
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.3	20.2	16.5	27.3	19.0	18.4	31.0	25.7	23.6	26.0	19.6	16.4
Incr Delay (d2), s/veh	6.9	0.6	0.0	2.6	0.2	0.5	11.2	3.1	0.3	5.9	1.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	3.6	0.2	1.6	1.9	1.4	0.4	2.7	0.5	3.2	3.8	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	34.1	20.8	16.5	29.9	19.2	18.8	42.3	28.8	23.9	31.9	20.8	16.5
LnGrp LOS	C	C	B	C	B	B	D	C	C	C	C	B
Approach Vol, veh/h		1150			1136			250			574	
Approach Delay, s/veh		22.5			21.4			29.0			24.7	
Approach LOS		C			C			C			C	

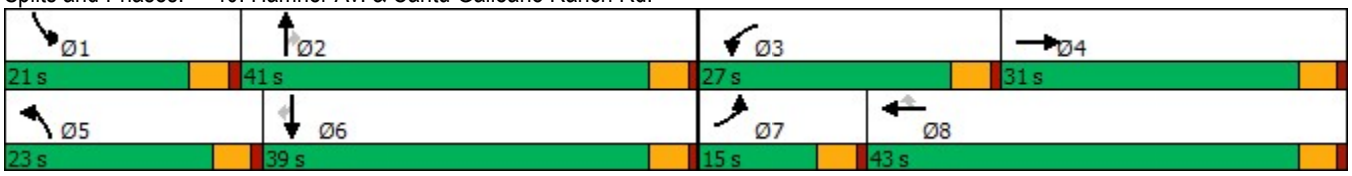
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.8	14.4	11.9	23.0	5.9	23.3	12.5	22.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	27.5	17.5	28.5	6.5	49.5	22.5	23.5
Max Q Clear Time (g_c+I1), s	10.1	8.5	7.0	13.2	2.7	12.1	8.2	8.5
Green Ext Time (p_c), s	0.5	1.0	0.5	5.4	0.0	2.0	0.3	4.4

Intersection Summary	
HCM 6th Ctrl Delay	23.0
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	139	742	371	751	151	312	356	293	240	499	105
Future Volume (vph)	139	742	371	751	151	312	356	293	240	499	105
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	27.0	43.0	43.0	23.0	41.0	41.0	21.0	39.0	39.0
Total Split (%)	12.5%	25.8%	22.5%	35.8%	35.8%	19.2%	34.2%	34.2%	17.5%	32.5%	32.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	9.1	22.2	16.0	29.1	29.1	14.2	21.7	21.7	12.3	19.8	19.8
Actuated g/C Ratio	0.10	0.24	0.18	0.32	0.32	0.16	0.24	0.24	0.14	0.22	0.22
v/c Ratio	0.41	0.67	0.63	0.68	0.25	0.60	0.30	0.50	0.53	0.67	0.24
Control Delay	45.9	32.3	41.5	31.1	5.3	42.8	30.1	6.8	43.4	38.2	4.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.9	32.3	41.5	31.1	5.3	42.8	30.1	6.8	43.4	38.2	4.9
LOS	D	C	D	C	A	D	C	A	D	D	A
Approach Delay		33.9		31.1			27.2			35.5	
Approach LOS		C		C			C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 90.9	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.68	
Intersection Signal Delay: 31.8	Intersection LOS: C
Intersection Capacity Utilization 63.5%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	139	742	264	371	751	151	312	356	293	240	499	105
Future Volume (veh/h)	139	742	264	371	751	151	312	356	293	240	499	105
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	146	781	221	391	791	93	328	375	224	253	525	70
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	240	1257	345	531	1182	527	457	1223	380	371	763	340
Arrive On Green	0.07	0.24	0.24	0.15	0.33	0.33	0.13	0.24	0.24	0.11	0.21	0.21
Sat Flow, veh/h	3510	5138	1410	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	146	744	258	391	791	93	328	375	224	253	525	70
Grp Sat Flow(s),veh/h/ln	1755	1634	1646	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	2.8	9.3	9.6	7.3	12.9	2.8	6.1	4.1	8.5	4.8	9.2	2.5
Cycle Q Clear(g_c), s	2.8	9.3	9.6	7.3	12.9	2.8	6.1	4.1	8.5	4.8	9.2	2.5
Prop In Lane	1.00		0.86	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	240	1200	403	531	1182	527	457	1223	380	371	763	340
V/C Ratio(X)	0.61	0.62	0.64	0.74	0.67	0.18	0.72	0.31	0.59	0.68	0.69	0.21
Avail Cap(c_a), veh/h	538	1895	636	1152	2027	904	947	2761	857	845	1816	810
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.0	23.1	23.2	27.8	19.9	16.5	28.6	21.6	23.3	29.5	24.9	22.3
Incr Delay (d2), s/veh	2.5	0.5	1.7	2.0	0.7	0.2	2.1	0.1	1.5	2.2	1.1	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	3.1	3.4	2.8	4.6	0.9	2.4	1.5	2.9	1.9	3.6	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	33.5	23.6	24.9	29.8	20.5	16.6	30.7	21.7	24.7	31.7	26.1	22.6
LnGrp LOS	C	C	C	C	C	B	C	C	C	C	C	C
Approach Vol, veh/h		1148			1275			927			848	
Approach Delay, s/veh		25.1			23.1			25.6			27.5	
Approach LOS		C			C			C			C	

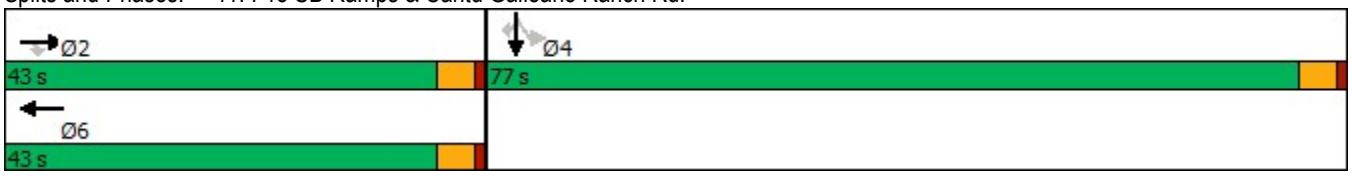
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	20.7	14.9	21.3	13.4	19.0	9.2	27.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	36.5	22.5	26.5	18.5	34.5	10.5	38.5
Max Q Clear Time (g_c+I1), s	6.8	10.5	9.3	11.6	8.1	11.2	4.8	14.9
Green Ext Time (p_c), s	0.6	3.0	1.1	5.2	0.8	3.3	0.2	5.2

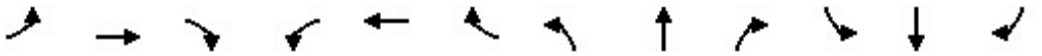
Intersection Summary	
HCM 6th Ctrl Delay	25.1
HCM 6th LOS	C

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	1181	365	637	140	301	1	1200
Future Volume (vph)	1181	365	637	140	301	1	1200
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	43.0	43.0	43.0		77.0	77.0	77.0
Total Split (%)	35.8%	35.8%	35.8%		64.2%	64.2%	64.2%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	31.5	31.5	31.5	90.6	49.4	49.4	49.4
Actuated g/C Ratio	0.35	0.35	0.35	1.00	0.55	0.55	0.55
v/c Ratio	0.70	0.48	0.54	0.05	0.31	0.79	0.75
Control Delay	29.6	5.1	27.7	0.0	12.3	22.7	20.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.6	5.1	27.7	0.0	12.3	22.7	20.6
LOS	C	A	C	A	B	C	C
Approach Delay	23.8		22.7			20.0	
Approach LOS	C		C			B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 90.6	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.79	
Intersection Signal Delay: 22.1	Intersection LOS: C
Intersection Capacity Utilization 74.6%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	1181	365	0	637	140	0	0	0	301	1	1200
Future Volume (veh/h)	0	1181	365	0	637	140	0	0	0	301	1	1200
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	1256	0	0	678	0				214	0	1080
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94				0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	2043		0	1422					793	0	1411
Arrive On Green	0.00	0.39	0.00	0.00	0.39	0.00				0.44	0.00	0.44
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	1256	0	0	678	0				214	0	1080
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	10.4	0.0	0.0	7.5	0.0				4.0	0.0	15.2
Cycle Q Clear(g_c), s	0.0	10.4	0.0	0.0	7.5	0.0				4.0	0.0	15.2
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2043		0	1422					793	0	1411
V/C Ratio(X)	0.00	0.61		0.00	0.48					0.27	0.00	0.77
Avail Cap(c_a), veh/h	0	3726		0	2593					2448	0	4356
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	13.0	0.0	0.0	12.1	0.0				9.6	0.0	12.7
Incr Delay (d2), s/veh	0.0	0.3	0.0	0.0	0.2	0.0				0.2	0.0	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	2.8	0.0	0.0	2.1	0.0				1.2	0.0	4.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	13.3	0.0	0.0	12.4	0.0				9.8	0.0	13.6
LnGrp LOS	A	B		A	B					A	A	B
Approach Vol, veh/h		1256	A		678	A					1294	
Approach Delay, s/veh		13.3			12.4						13.0	
Approach LOS		B			B						B	

Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		25.6		28.0		25.6						
Change Period (Y+Rc), s		4.5		4.5		4.5						
Max Green Setting (Gmax), s		38.5		72.5		38.5						
Max Q Clear Time (g_c+I1), s		12.4		17.2		9.5						
Green Ext Time (p_c), s		8.7		6.3		4.2						

Intersection Summary		
HCM 6th Ctrl Delay		13.0
HCM 6th LOS		B

Notes

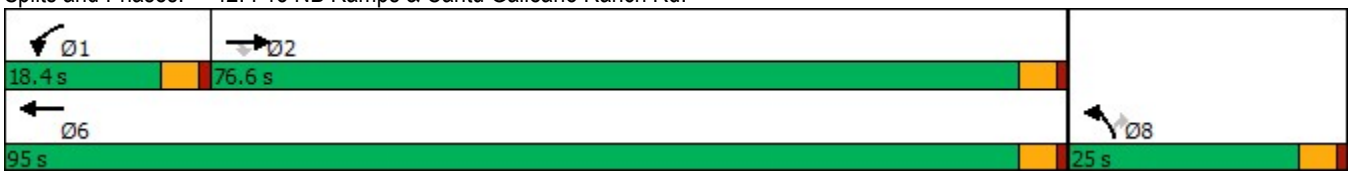
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	717	764	219	401	377	154
Future Volume (vph)	717	764	219	401	377	154
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	76.6	76.6	18.4	95.0	25.0	25.0
Total Split (%)	63.8%	63.8%	15.3%	79.2%	20.8%	20.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	23.5	23.5	9.9	38.3	13.0	13.0
Actuated g/C Ratio	0.39	0.39	0.16	0.63	0.21	0.21
v/c Ratio	0.37	0.76	0.40	0.13	0.55	0.34
Control Delay	13.8	8.3	28.2	4.6	26.1	7.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	13.8	8.3	28.2	4.6	26.1	7.8
LOS	B	A	C	A	C	A
Approach Delay	10.9			13.0	21.3	
Approach LOS	B			B	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 60.9	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.76	
Intersection Signal Delay: 13.5	Intersection LOS: B
Intersection Capacity Utilization 61.1%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	717	764	219	401	377	154
Future Volume (veh/h)	717	764	219	401	377	154
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	747	527	228	418	393	105
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	2368	735	373	3382	613	273
Arrive On Green	0.46	0.46	0.11	0.65	0.17	0.17
Sat Flow, veh/h	5358	1610	3510	5358	3619	1610
Grp Volume(v), veh/h	747	527	228	418	393	105
Grp Sat Flow(s),veh/h/ln	1729	1610	1755	1729	1810	1610
Q Serve(g_s), s	4.6	13.3	3.1	1.5	5.1	2.9
Cycle Q Clear(g_c), s	4.6	13.3	3.1	1.5	5.1	2.9
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	2368	735	373	3382	613	273
V/C Ratio(X)	0.32	0.72	0.61	0.12	0.64	0.39
Avail Cap(c_a), veh/h	7425	2305	969	9320	1473	655
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	8.7	11.1	21.5	3.3	19.5	18.6
Incr Delay (d2), s/veh	0.1	1.3	1.6	0.0	1.1	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	3.1	1.1	0.1	1.9	1.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	8.8	12.4	23.1	3.3	20.6	19.5
LnGrp LOS	A	B	C	A	C	B
Approach Vol, veh/h	1274			646	498	
Approach Delay, s/veh	10.3			10.3	20.4	
Approach LOS	B			B	C	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	9.8	27.5				37.3	13.0
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	13.9	72.1				90.5	20.5
Max Q Clear Time (g_c+I1), s	5.1	15.3				3.5	7.1
Green Ext Time (p_c), s	0.4	7.7				2.6	1.4

Intersection Summary		
HCM 6th Ctrl Delay		12.4
HCM 6th LOS		B

Notes

User approved volume balancing among the lanes for turning movement.

APPENDIX 5.2: E+P CONDITIONS TRAFFIC SIGNAL WARRANT OPERATIONS ANALYSIS WORKSHEETS

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Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P	
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Schaefer Av.			Critical Approach Speed (Major)		45	mph
Minor Street:	Driveway 6			Critical Approach Speed (Minor)		25	mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **5,250** vpd Minor Street Future ADT = **130** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach		Minimum Requirements EADT			
Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
		Urban	Rural	Urban	Rural
1 **5,250**	1 **130**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **5,250**	1 **130**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more ..... **A** 8% **B** 15%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P	
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Edison Av.			Critical Approach Speed (Major)		45	mph
Minor Street:	Driveway 9			Critical Approach Speed (Minor)		25	mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **11,143** vpd Minor Street Future ADT = **159** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... [√]

or

In built up area of isolated community of < 10,000 population ..... [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches)		Minimum Requirements EADT: Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
CONDITION A - Minimum Vehicular Volume				
Satisfied / Not Satisfied: XX / XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **11,143** / 1 **159**	8,000	5,600 *	2,400	1,680
2 + / 1	9,600	6,720	2,400	1,680
2 + / 2 +	9,600	6,720	3,200	2,240
1 / 2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic				
Satisfied / Not Satisfied: XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **11,143** / 1 **159**	12,000	8,400 *	1,200	850
2 + / 1	14,400	10,080	1,200	850
2 + / 2 +	14,400	10,080	1,600	1,120
1 / 2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied / Not Satisfied: XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 9% B: 19%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P	
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Schaefer Av.			Critical Approach Speed (Major)		45	mph
Minor Street:	Sultana Av.			Critical Approach Speed (Minor)		45	mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **5,277** vpd Minor Street Future ADT = **159** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **5,277**	1 **159**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **5,277**	1 **159**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more ..... **A** 9% **B** 19%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P
				CALC JB	DATE	01/11/23
Jurisdiction: City of Ontario				CHK JB	DATE	01/11/23
Major Street: Sultana Av.				Critical Approach Speed (Major)		45 mph
Minor Street: Driveway 11				Critical Approach Speed (Minor)		25 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **360** vpd Minor Street Future ADT = **191** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches)		Minimum Requirements EADT: Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
CONDITION A - Minimum Vehicular Volume				
Satisfied / Not Satisfied XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **360** / *1* **191**	8,000	5,600	2,400	1,680
2 + / *1*	9,600	6,720	2,400	1,680
2 + / *2* +	9,600	6,720	3,200	2,240
1 / *2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic				
Satisfied / Not Satisfied XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **360** / *1* **191**	12,000	8,400	1,200	850
2 + / *1*	14,400	10,080	1,200	850
2 + / *2* +	14,400	10,080	1,600	1,120
1 / *2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied / Not Satisfied XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 6% B: 4%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P
				CALC JB	DATE	01/11/23
Jurisdiction: City of Ontario				CHK JB	DATE	01/11/23
Major Street: Sultana Av.				Critical Approach Speed (Major)		45 mph
Minor Street: Driveway 12				Critical Approach Speed (Minor)		25 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **395** vpd Minor Street Future ADT = **64** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **395**	1 **64**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **395**	1 **64**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 4% B: 5%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P	
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Sultana Av.			Critical Approach Speed (Major)		45	mph
Minor Street:	Driveway 13			Critical Approach Speed (Minor)		25	mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **400** vpd Minor Street Future ADT = **64** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches)		Minimum Requirements EADT: Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
CONDITION A - Minimum Vehicular Volume				
Satisfied / Not Satisfied: XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **400** / *1* **64**	8,000	5,600	2,400	1,680
2 + / *1*	9,600	6,720	2,400	1,680
2 + / *2* +	9,600	6,720	3,200	2,240
1 / *2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic				
Satisfied / Not Satisfied: XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **400** / *1* **64**	12,000	8,400	1,200	850
2 + / *1*	14,400	10,080	1,200	850
2 + / *2* +	14,400	10,080	1,600	1,120
1 / *2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied / Not Satisfied: XX				
No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 4% B: 5%	2 CONDITIONS 80%		2 CONDITIONS 80%	

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P	
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Sultana Av.			Critical Approach Speed (Major)		45	mph
Minor Street:	Driveway 14			Critical Approach Speed (Minor)		25	mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **466** vpd Minor Street Future ADT = **58** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches)		Minimum Requirements EADT: Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
CONDITION A - Minimum Vehicular Volume				
Satisfied / Not Satisfied: XX / XX				
Number of lanes for moving traffic on each approach	Urban	Rural	Urban	Rural
Major Street: *1* **466** / Minor Street: *1* **58**	8,000	5,600	2,400	1,680
2 + / *1*	9,600	6,720	2,400	1,680
2 + / *2* +	9,600	6,720	3,200	2,240
1 / *2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic				
Satisfied / Not Satisfied: XX				
Number of lanes for moving traffic on each approach	Urban	Rural	Urban	Rural
Major Street: *1* **466** / Minor Street: *1* **58**	12,000	8,400	1,200	850
2 + / *1*	14,400	10,080	1,200	850
2 + / *2* +	14,400	10,080	1,600	1,120
1 / *2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied / Not Satisfied: XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 3% B: 6%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P	
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Sultana Av.			Critical Approach Speed (Major)		45	mph
Minor Street:	Driveway 15			Critical Approach Speed (Minor)		25	mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **746** vpd Minor Street Future ADT = **244** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **746**	1 **244**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **746**	1 **244**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more ..... **A** 13% **B** 9%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	E+P
				CALC JB	DATE 01/11/23
Jurisdiction: City of Ontario				CHK JB	DATE 01/11/23
Major Street: Sultana Av.				Critical Approach Speed (Major)	45 mph
Minor Street: Driveway 16				Critical Approach Speed (Minor)	25 mph

Major Street Approach Lanes = 1 lane Minor Street Approach Lanes 1 lane

Major Street Future ADT = 1,119 vpd Minor Street Future ADT = 152 vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **1,119**	1 **152**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **1,119**	1 **152**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 9% B: 13%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet (Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P	
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Sultana Av.			Critical Approach Speed (Major)		45	mph
Minor Street:	Driveway 17			Critical Approach Speed (Minor)		25	mph

Major Street Approach Lanes = **1** lane

Minor Street Approach Lanes = **1** lane

Major Street Future ADT = **1,574** vpd

Minor Street Future ADT = **304** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... [√]

or

In built up area of isolated community of < 10,000 population ..... [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach		Minimum Requirements EADT			
Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
		Urban	Rural	Urban	Rural
1 **1,574**	*1* **304**	8,000	5,600	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **1,574**	*1* **304**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more .....

A	B	2 CONDITIONS 80%	2 CONDITIONS 80%
18%	19%		

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		E+P	
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Edison Av.			Critical Approach Speed (Major)		45	mph
Minor Street:	Sultana Av.			Critical Approach Speed (Minor)		45	mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **11,600** vpd Minor Street Future ADT = **939** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **11,600**	*1* **939**	8,000	5,600 *	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
XX					
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **11,600**	*1* **939**	12,000	8,400 *	1,200	850 *
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied				
	XX				
No one condition satisfied, but following conditions fulfilled 80% of more	**A** 56% **B** 100%	2 CONDITIONS 80%		2 CONDITIONS 80%	

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-4. Warrant 3, Peak Hour (70% Factor)

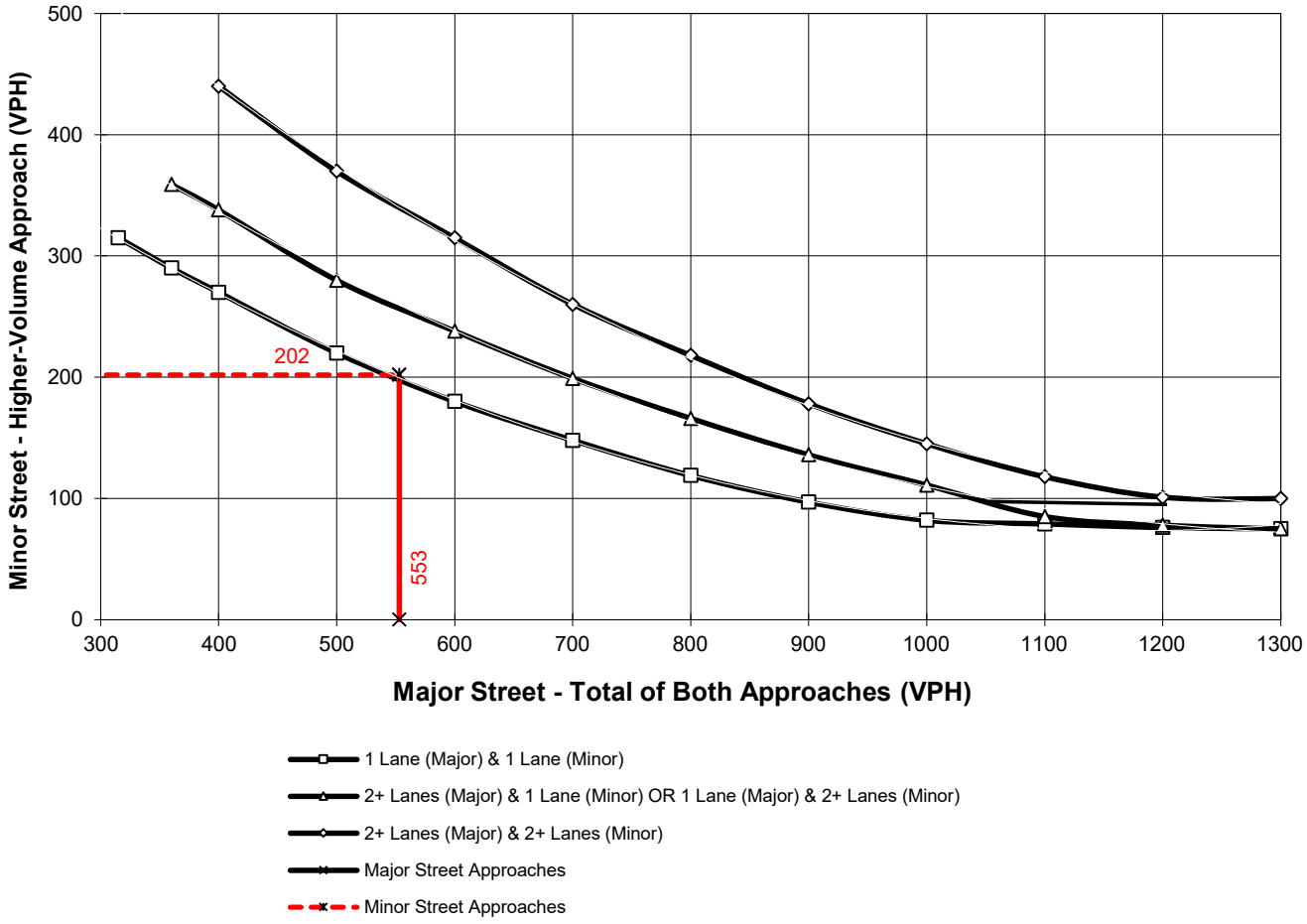
(COMMUNITY LESS THAN 10,000 POPULATION OR ABOVE 64 km/h OR ABOVE 40 mph ON MAJOR STREET)

Traffic Conditions = **Existing Plus Project Conditions - Weekday PM Peak Hour**

Major Street Name = **Schaefer Av.** Total of Both Approaches (VPH) = **553**
Number of Approach Lanes Major Street = **1**

Minor Street Name = **Bon View Av.** High Volume Approach (VPH) = **202**
Number of Approach Lanes Minor Street = **1**

WARRANTED FOR A SIGNAL



*Note: 100 vph applies as the lower threshold for a minor-street approach with two or more lanes and 75 vph applies as the lower threshold for a minor-street approach with one lane

APPENDIX 5.3: E+P CONDITIONS OFF-RAMP QUEUING ANALYSIS WORKSHEETS

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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	361	358	329	390	929	958	377
v/c Ratio	0.85	0.88	0.66	0.90	0.39	0.68	0.44
Control Delay	61.3	64.1	26.9	75.6	9.4	35.4	5.1
Queue Delay	0.4	0.4	0.0	0.0	0.2	0.0	0.0
Total Delay	61.7	64.5	26.9	75.6	9.6	35.4	5.1
Queue Length 50th (ft)	273	278	123	324	146	343	5
Queue Length 95th (ft)	388	#423	226	m#450	m207	437	74
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	485	465	546	473	2398	1400	851
Starvation Cap Reductn	0	0	0	0	677	0	0
Spillback Cap Reductn	11	10	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.76	0.79	0.60	0.82	0.54	0.68	0.44

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	359	496	868	743	385	1152
v/c Ratio	0.73	0.98	0.68	0.77	0.89	0.51
Control Delay	48.7	69.6	37.4	11.6	75.5	14.9
Queue Delay	0.7	9.7	0.0	0.0	0.2	0.4
Total Delay	49.4	79.3	37.4	11.6	75.7	15.3
Queue Length 50th (ft)	262	336	308	53	321	223
Queue Length 95th (ft)	382	#569	397	240	m#429	301
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	500	517	1275	968	496	2264
Starvation Cap Reductn	0	0	0	0	5	576
Spillback Cap Reductn	23	24	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.75	1.01	0.68	0.77	0.78	0.68

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.
m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	932	371	800	188	263	562	555
v/c Ratio	0.54	0.47	0.67	0.07	0.29	0.70	0.67
Control Delay	22.4	5.0	25.6	0.0	10.6	17.3	16.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	22.4	5.0	25.6	0.0	10.6	17.3	16.1
Queue Length 50th (ft)	110	0	143	0	55	156	143
Queue Length 95th (ft)	240	64	324	0	142	392	356
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	3185	1135	2217	2842	1546	1337	1386
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.29	0.33	0.36	0.07	0.17	0.42	0.40

Intersection Summary



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	414	722	198	419	606	277
v/c Ratio	0.30	0.76	0.35	0.16	0.56	0.43
Control Delay	16.6	7.8	24.4	7.1	18.3	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	16.6	7.8	24.4	7.1	18.3	5.1
Queue Length 50th (ft)	37	3	27	23	72	0
Queue Length 95th (ft)	69	77	72	43	164	56
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	5120	1603	983	5187	1493	790
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.08	0.45	0.20	0.08	0.41	0.35

Intersection Summary



Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	348	349	319	354	885	858	447
v/c Ratio	0.74	0.78	0.58	0.80	0.39	0.71	0.53
Control Delay	45.9	48.0	19.4	51.9	9.8	33.3	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Total Delay	45.9	48.0	19.4	51.9	9.9	33.3	5.1
Queue Length 50th (ft)	223	232	78	226	144	267	0
Queue Length 95th (ft)	374	#402	194	#391	194	366	68
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	608	582	661	583	2824	1626	973
Starvation Cap Reductn	0	0	0	0	916	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.57	0.60	0.48	0.61	0.46	0.53	0.46

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



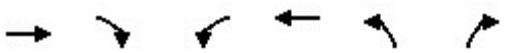
Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	259	341	978	514	351	1194
v/c Ratio	0.65	0.79	0.73	0.57	0.78	0.49
Control Delay	44.0	40.3	31.8	5.4	48.9	9.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.2
Total Delay	44.0	40.3	31.8	5.4	48.9	9.5
Queue Length 50th (ft)	163	162	279	2	215	175
Queue Length 95th (ft)	274	296	433	80	362	283
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	617	621	1682	998	626	2913
Starvation Cap Reductn	0	0	0	0	0	876
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.42	0.55	0.58	0.52	0.56	0.59

Intersection Summary



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	1256	388	678	149	288	659	651
v/c Ratio	0.70	0.48	0.54	0.05	0.31	0.79	0.75
Control Delay	29.6	5.1	27.7	0.0	12.3	22.7	20.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.6	5.1	27.7	0.0	12.3	22.7	20.6
Queue Length 50th (ft)	226	0	163	0	91	291	265
Queue Length 95th (ft)	375	69	294	0	156	502	451
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	2383	951	1659	2842	1375	1200	1242
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.53	0.41	0.41	0.05	0.21	0.55	0.52

Intersection Summary



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	747	796	228	418	409	144
v/c Ratio	0.37	0.76	0.40	0.13	0.55	0.34
Control Delay	13.8	8.3	28.2	4.6	26.1	7.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	13.8	8.3	28.2	4.6	26.1	7.8
Queue Length 50th (ft)	64	25	35	17	61	0
Queue Length 95th (ft)	119	146	96	37	151	51
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	4980	1578	852	5187	1256	619
Starvation Cap Reductn	0	22	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.15	0.51	0.27	0.08	0.33	0.23

Intersection Summary

APPENDIX 5.6: E+P CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS WITH IMPROVEMENTS

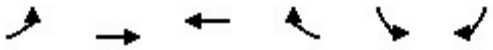
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Lane Group	EBL	EBT	WBT	SBL
Lane Configurations				
Traffic Volume (vph)	212	196	669	190
Future Volume (vph)	212	196	669	190
Turn Type	Perm	NA	NA	Prot
Protected Phases		4	8	6
Permitted Phases	4			
Detector Phase	4	4	8	6
Switch Phase				
Minimum Initial (s)	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5
Total Split (s)	87.0	87.0	87.0	33.0
Total Split (%)	72.5%	72.5%	72.5%	27.5%
Yellow Time (s)	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5
Lead/Lag				
Lead-Lag Optimize?				
Recall Mode	None	None	None	Min
Act Effct Green (s)	47.9	47.9	47.9	19.2
Actuated g/C Ratio	0.61	0.61	0.61	0.25
v/c Ratio	0.92	0.18	0.71	0.70
Control Delay	57.5	6.6	13.4	39.1
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	57.5	6.6	13.4	39.1
LOS	E	A	B	D
Approach Delay		33.0	13.4	39.1
Approach LOS		C	B	D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 77.9	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.92	
Intersection Signal Delay: 24.0	Intersection LOS: C
Intersection Capacity Utilization 80.0%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 19: Edison Av. & Driveway 9





Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	212	196	669	87	190	98
Future Volume (veh/h)	212	196	669	87	190	98
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	230	213	727	95	207	107
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	365	1253	1086	142	245	126
Arrive On Green	0.66	0.66	0.66	0.66	0.21	0.21
Sat Flow, veh/h	676	1900	1646	215	1141	590
Grp Volume(v), veh/h	230	213	0	822	315	0
Grp Sat Flow(s),veh/h/ln	676	1900	0	1861	1737	0
Q Serve(g_s), s	22.4	3.1	0.0	19.2	12.4	0.0
Cycle Q Clear(g_c), s	41.6	3.1	0.0	19.2	12.4	0.0
Prop In Lane	1.00			0.12	0.66	0.34
Lane Grp Cap(c), veh/h	365	1253	0	1228	372	0
V/C Ratio(X)	0.63	0.17	0.00	0.67	0.85	0.00
Avail Cap(c_a), veh/h	701	2198	0	2153	694	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	20.1	4.7	0.0	7.4	26.9	0.0
Incr Delay (d2), s/veh	1.8	0.1	0.0	0.6	5.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	0.8	0.0	4.9	5.5	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	21.9	4.7	0.0	8.0	32.2	0.0
LnGrp LOS	C	A	A	A	C	A
Approach Vol, veh/h		443	822		315	
Approach Delay, s/veh		13.6	8.0		32.2	
Approach LOS		B	A		C	

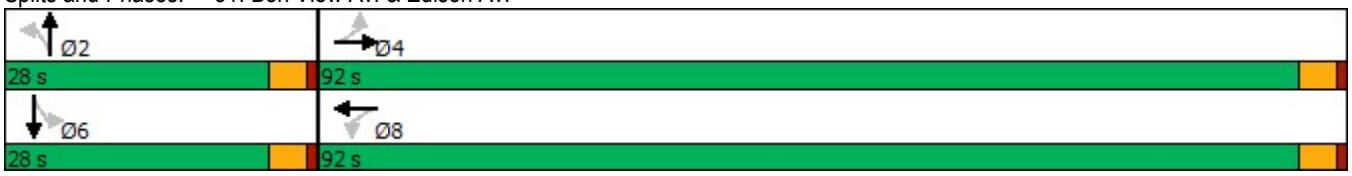
Timer - Assigned Phs		4		6	8
Phs Duration (G+Y+Rc), s		51.5		19.8	51.5
Change Period (Y+Rc), s		4.5		4.5	4.5
Max Green Setting (Gmax), s		82.5		28.5	82.5
Max Q Clear Time (g_c+I1), s		43.6		14.4	21.2
Green Ext Time (p_c), s		3.4		0.9	6.8

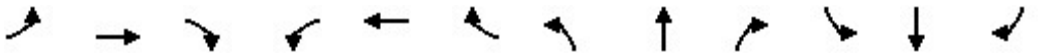
Intersection Summary		
HCM 6th Ctrl Delay	14.4	
HCM 6th LOS	B	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	42	418	7	654	11	80	10	79
Future Volume (vph)	42	418	7	654	11	80	10	79
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	92.0	92.0	92.0	92.0	28.0	28.0	28.0	28.0
Total Split (%)	76.7%	76.7%	76.7%	76.7%	23.3%	23.3%	23.3%	23.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		28.6		28.6		10.4		10.4
Actuated g/C Ratio		0.59		0.59		0.21		0.21
v/c Ratio		0.58		0.75		0.30		0.39
Control Delay		9.0		12.7		21.0		20.9
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		9.0		12.7		21.0		20.9
LOS		A		B		C		C
Approach Delay		9.0		12.7		21.0		20.9
Approach LOS		A		B		C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 48.8	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.75	
Intersection Signal Delay: 12.7	Intersection LOS: B
Intersection Capacity Utilization 66.5%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	42	418	16	7	654	30	11	80	5	10	79	39
Future Volume (veh/h)	42	418	16	7	654	30	11	80	5	10	79	39
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	51	504	19	8	788	36	13	96	6	12	95	47
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	158	958	34	107	1049	48	134	253	15	124	180	84
Arrive On Green	0.58	0.58	0.58	0.58	0.58	0.58	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	77	1638	59	5	1794	81	117	1621	96	77	1151	540
Grp Volume(v), veh/h	574	0	0	832	0	0	115	0	0	154	0	0
Grp Sat Flow(s),veh/h/ln	1775	0	0	1880	0	0	1834	0	0	1768	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
Cycle Q Clear(g_c), s	6.3	0.0	0.0	11.4	0.0	0.0	1.9	0.0	0.0	2.8	0.0	0.0
Prop In Lane	0.09		0.03	0.01		0.04	0.11		0.05	0.08		0.31
Lane Grp Cap(c), veh/h	1150	0	0	1204	0	0	402	0	0	388	0	0
V/C Ratio(X)	0.50	0.00	0.00	0.69	0.00	0.00	0.29	0.00	0.00	0.40	0.00	0.00
Avail Cap(c_a), veh/h	4304	0	0	4818	0	0	1331	0	0	1297	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	4.3	0.0	0.0	5.4	0.0	0.0	13.2	0.0	0.0	13.5	0.0	0.0
Incr Delay (d2), s/veh	0.3	0.0	0.0	0.7	0.0	0.0	0.4	0.0	0.0	0.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.0	0.9	0.0	0.0	0.6	0.0	0.0	0.8	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	4.6	0.0	0.0	6.1	0.0	0.0	13.6	0.0	0.0	14.2	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		574			832			115			154	
Approach Delay, s/veh		4.6			6.1			13.6			14.2	
Approach LOS		A			A			B			B	

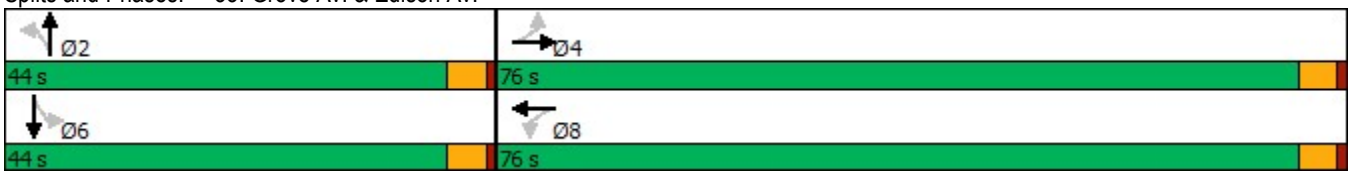
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		9.9		24.8		9.9		24.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		23.5		87.5		23.5		87.5				
Max Q Clear Time (g_c+I1), s		3.9		8.3		4.8		13.4				
Green Ext Time (p_c), s		0.5		4.3		0.7		6.9				

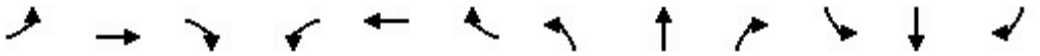
Intersection Summary												
HCM 6th Ctrl Delay			6.8									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	71	365	29	581	51	216	40	189
Future Volume (vph)	71	365	29	581	51	216	40	189
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	76.0	76.0	76.0	76.0	44.0	44.0	44.0	44.0
Total Split (%)	63.3%	63.3%	63.3%	63.3%	36.7%	36.7%	36.7%	36.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		34.0		34.0		19.2		19.2
Actuated g/C Ratio		0.54		0.54		0.30		0.30
v/c Ratio		0.61		0.77		0.60		0.60
Control Delay		14.1		18.2		27.0		26.2
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		14.1		18.2		27.0		26.2
LOS		B		B		C		C
Approach Delay		14.1		18.2		27.0		26.2
Approach LOS		B		B		C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 63.3	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.77	
Intersection Signal Delay: 19.8	Intersection LOS: B
Intersection Capacity Utilization 82.4%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	71	365	27	29	581	59	51	216	6	40	189	53
Future Volume (veh/h)	71	365	27	29	581	59	51	216	6	40	189	53
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	76	388	29	31	618	63	54	230	6	43	201	56
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	185	719	50	114	805	80	162	368	9	143	307	79
Arrive On Green	0.52	0.52	0.52	0.52	0.52	0.52	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	151	1389	96	33	1554	154	207	1473	36	147	1229	316
Grp Volume(v), veh/h	493	0	0	712	0	0	290	0	0	300	0	0
Grp Sat Flow(s),veh/h/ln	1636	0	0	1741	0	0	1716	0	0	1691	0	0
Q Serve(g_s), s	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0	0.0	0.4	0.0	0.0
Cycle Q Clear(g_c), s	7.2	0.0	0.0	12.7	0.0	0.0	5.6	0.0	0.0	6.0	0.0	0.0
Prop In Lane	0.15		0.06	0.04		0.09	0.19		0.02	0.14		0.19
Lane Grp Cap(c), veh/h	954	0	0	999	0	0	539	0	0	529	0	0
V/C Ratio(X)	0.52	0.00	0.00	0.71	0.00	0.00	0.54	0.00	0.00	0.57	0.00	0.00
Avail Cap(c_a), veh/h	2884	0	0	3257	0	0	1765	0	0	1759	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	6.2	0.0	0.0	7.5	0.0	0.0	13.0	0.0	0.0	13.2	0.0	0.0
Incr Delay (d2), s/veh	0.4	0.0	0.0	1.0	0.0	0.0	0.8	0.0	0.0	1.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.0	0.0	2.2	0.0	0.0	1.6	0.0	0.0	1.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	6.7	0.0	0.0	8.5	0.0	0.0	13.8	0.0	0.0	14.1	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		493			712			290			300	
Approach Delay, s/veh		6.7			8.5			13.8			14.1	
Approach LOS		A			A			B			B	

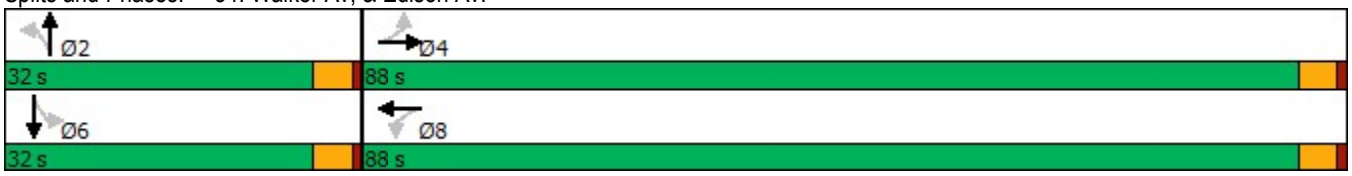
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		14.2		24.6		14.2		24.6				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		39.5		71.5		39.5		71.5				
Max Q Clear Time (g_c+I1), s		7.6		9.2		8.0		14.7				
Green Ext Time (p_c), s		1.6		3.7		1.7		5.4				

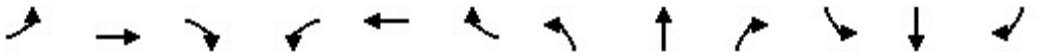
Intersection Summary												
HCM 6th Ctrl Delay			9.8									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	30	354	65	624	13	98	64	57
Future Volume (vph)	30	354	65	624	13	98	64	57
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	88.0	88.0	88.0	88.0	32.0	32.0	32.0	32.0
Total Split (%)	73.3%	73.3%	73.3%	73.3%	26.7%	26.7%	26.7%	26.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		35.0		35.0		13.1		13.1
Actuated g/C Ratio		0.60		0.60		0.23		0.23
v/c Ratio		0.38		0.78		0.39		0.47
Control Delay		7.1		14.3		24.2		26.4
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		7.1		14.3		24.2		26.4
LOS		A		B		C		C
Approach Delay		7.1		14.3		24.2		26.4
Approach LOS		A		B		C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 58.2	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.78	
Intersection Signal Delay: 14.8	Intersection LOS: B
Intersection Capacity Utilization 85.0%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 34: Walker Av, & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Volume (veh/h)	30	354	1	65	624	102	13	98	41	64	57	39
Future Volume (veh/h)	30	354	1	65	624	102	13	98	41	64	57	39
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	31	369	1	68	650	106	14	102	43	67	59	41
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	140	1030	3	157	869	136	122	197	78	228	116	67
Arrive On Green	0.59	0.59	0.59	0.59	0.59	0.59	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	56	1747	5	84	1473	230	88	1216	483	552	719	414
Grp Volume(v), veh/h	401	0	0	824	0	0	159	0	0	167	0	0
Grp Sat Flow(s),veh/h/ln	1808	0	0	1787	0	0	1787	0	0	1685	0	0
Q Serve(g_s), s	0.0	0.0	0.0	3.4	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Cycle Q Clear(g_c), s	4.0	0.0	0.0	12.2	0.0	0.0	2.9	0.0	0.0	3.0	0.0	0.0
Prop In Lane	0.08		0.00	0.08		0.13	0.09		0.27	0.40		0.25
Lane Grp Cap(c), veh/h	1173	0	0	1162	0	0	397	0	0	412	0	0
V/C Ratio(X)	0.34	0.00	0.00	0.71	0.00	0.00	0.40	0.00	0.00	0.41	0.00	0.00
Avail Cap(c_a), veh/h	4063	0	0	4142	0	0	1440	0	0	1322	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	3.9	0.0	0.0	5.5	0.0	0.0	14.0	0.0	0.0	14.0	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.8	0.0	0.0	0.7	0.0	0.0	0.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.0	1.1	0.0	0.0	0.9	0.0	0.0	1.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	4.0	0.0	0.0	6.3	0.0	0.0	14.6	0.0	0.0	14.6	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		401			824			159			167	
Approach Delay, s/veh		4.0			6.3			14.6			14.6	
Approach LOS		A			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		10.4		25.9		10.4		25.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		27.5		83.5		27.5		83.5				
Max Q Clear Time (g_c+I1), s		4.9		6.0		5.0		14.2				
Green Ext Time (p_c), s		0.7		2.6		0.8		7.1				

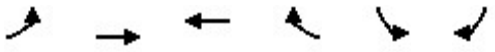
Intersection Summary												
HCM 6th Ctrl Delay			7.5									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBT	SBL
Lane Configurations				
Traffic Volume (vph)	188	492	335	138
Future Volume (vph)	188	492	335	138
Turn Type	Perm	NA	NA	Prot
Protected Phases		4	8	6
Permitted Phases	4			
Detector Phase	4	4	8	6
Switch Phase				
Minimum Initial (s)	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5
Total Split (s)	77.0	77.0	77.0	43.0
Total Split (%)	64.2%	64.2%	64.2%	35.8%
Yellow Time (s)	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5
Lead/Lag				
Lead-Lag Optimize?				
Recall Mode	None	None	None	Min
Act Effct Green (s)	18.4	18.4	18.4	11.2
Actuated g/C Ratio	0.47	0.47	0.47	0.29
v/c Ratio	0.50	0.60	0.50	0.43
Control Delay	12.8	11.2	9.4	14.4
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	12.8	11.2	9.4	14.4
LOS	B	B	A	B
Approach Delay		11.6	9.4	14.4
Approach LOS		B	A	B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 39.1	
Natural Cycle: 50	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.60	
Intersection Signal Delay: 11.4	Intersection LOS: B
Intersection Capacity Utilization 55.2%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 19: Edison Av. & Driveway 9





Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	188	492	335	68	138	68
Future Volume (veh/h)	188	492	335	68	138	68
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	204	535	364	74	150	74
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	582	992	800	163	234	115
Arrive On Green	0.52	0.52	0.52	0.52	0.20	0.20
Sat Flow, veh/h	966	1900	1532	312	1159	572
Grp Volume(v), veh/h	204	535	0	438	225	0
Grp Sat Flow(s),veh/h/ln	966	1900	0	1844	1739	0
Q Serve(g_s), s	5.5	6.1	0.0	4.9	3.9	0.0
Cycle Q Clear(g_c), s	10.3	6.1	0.0	4.9	3.9	0.0
Prop In Lane	1.00			0.17	0.67	0.33
Lane Grp Cap(c), veh/h	582	992	0	963	351	0
V/C Ratio(X)	0.35	0.54	0.00	0.45	0.64	0.00
Avail Cap(c_a), veh/h	2224	4223	0	4098	2053	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	8.1	5.2	0.0	4.9	11.9	0.0
Incr Delay (d2), s/veh	0.4	0.5	0.0	0.3	2.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.7	0.0	0.5	1.4	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	8.5	5.6	0.0	5.2	13.9	0.0
LnGrp LOS	A	A	A	A	B	A
Approach Vol, veh/h		739	438		225	
Approach Delay, s/veh		6.4	5.2		13.9	
Approach LOS		A	A		B	

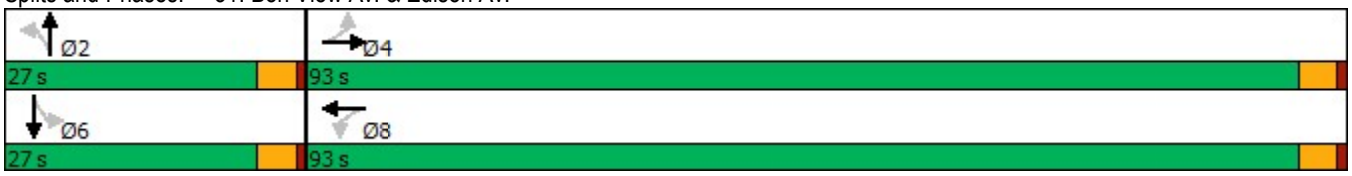
Timer - Assigned Phs	4	6	8
Phs Duration (G+Y+Rc), s	21.5	11.1	21.5
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	72.5	38.5	72.5
Max Q Clear Time (g_c+I1), s	12.3	5.9	6.9
Green Ext Time (p_c), s	4.7	0.7	2.7

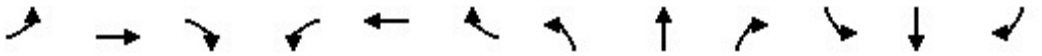
Intersection Summary	
HCM 6th Ctrl Delay	7.2
HCM 6th LOS	A

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	62	700	6	359	7	120	18	72
Future Volume (vph)	62	700	6	359	7	120	18	72
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	93.0	93.0	93.0	93.0	27.0	27.0	27.0	27.0
Total Split (%)	77.5%	77.5%	77.5%	77.5%	22.5%	22.5%	22.5%	22.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		33.3		33.3		10.9		10.9
Actuated g/C Ratio		0.62		0.62		0.20		0.20
v/c Ratio		0.77		0.36		0.40		0.35
Control Delay		13.2		5.9		25.5		23.8
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		13.2		5.9		25.5		23.8
LOS		B		A		C		C
Approach Delay		13.2		5.9		25.5		23.8
Approach LOS		B		A		C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 54	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.77	
Intersection Signal Delay: 13.3	Intersection LOS: B
Intersection Capacity Utilization 85.3%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	62	700	23	6	359	16	7	120	12	18	72	25
Future Volume (veh/h)	62	700	23	6	359	16	7	120	12	18	72	25
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	67	761	25	7	390	17	8	130	13	20	78	27
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	156	1013	32	106	1077	46	113	242	23	143	179	57
Arrive On Green	0.60	0.60	0.60	0.60	0.60	0.60	0.15	0.15	0.15	0.15	0.15	0.15
Sat Flow, veh/h	80	1684	53	7	1789	77	52	1637	159	180	1210	383
Grp Volume(v), veh/h	853	0	0	414	0	0	151	0	0	125	0	0
Grp Sat Flow(s),veh/h/ln	1817	0	0	1873	0	0	1848	0	0	1773	0	0
Q Serve(g_s), s	3.0	0.0	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	12.1	0.0	0.0	4.0	0.0	0.0	2.7	0.0	0.0	2.2	0.0	0.0
Prop In Lane	0.08		0.03	0.02		0.04	0.05		0.09	0.16		0.22
Lane Grp Cap(c), veh/h	1202	0	0	1229	0	0	378	0	0	378	0	0
V/C Ratio(X)	0.71	0.00	0.00	0.34	0.00	0.00	0.40	0.00	0.00	0.33	0.00	0.00
Avail Cap(c_a), veh/h	4486	0	0	4642	0	0	1253	0	0	1191	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	5.2	0.0	0.0	3.6	0.0	0.0	14.2	0.0	0.0	14.0	0.0	0.0
Incr Delay (d2), s/veh	0.8	0.0	0.0	0.2	0.0	0.0	0.7	0.0	0.0	0.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.0	0.0	0.3	0.0	0.0	0.9	0.0	0.0	0.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	6.0	0.0	0.0	3.8	0.0	0.0	14.9	0.0	0.0	14.5	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		853			414			151			125	
Approach Delay, s/veh		6.0			3.8			14.9			14.5	
Approach LOS		A			A			B			B	

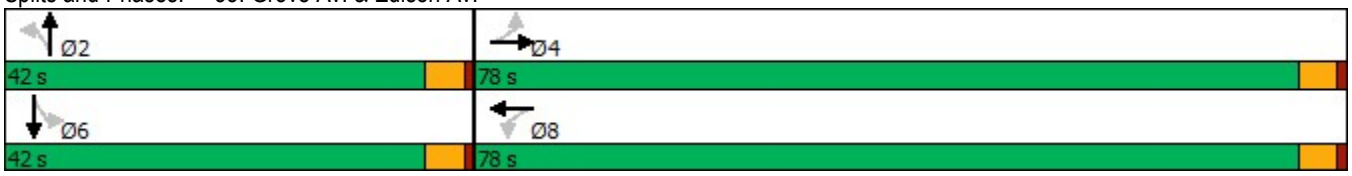
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		9.8		26.1		9.8		26.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		22.5		88.5		22.5		88.5				
Max Q Clear Time (g_c+I1), s		4.7		14.1		4.2		6.0				
Green Ext Time (p_c), s		0.6		7.5		0.5		2.6				

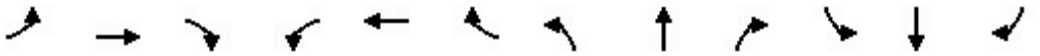
Intersection Summary		
HCM 6th Ctrl Delay		7.0
HCM 6th LOS		A

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	58	636	7	337	16	267	48	145
Future Volume (vph)	58	636	7	337	16	267	48	145
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	78.0	78.0	78.0	78.0	42.0	42.0	42.0	42.0
Total Split (%)	65.0%	65.0%	65.0%	65.0%	35.0%	35.0%	35.0%	35.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		43.2		43.2		22.6		22.6
Actuated g/C Ratio		0.57		0.57		0.30		0.30
v/c Ratio		0.81		0.40		0.70		0.57
Control Delay		21.5		10.7		34.1		30.8
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		21.5		10.7		34.1		30.8
LOS		C		B		C		C
Approach Delay		21.5		10.7		34.1		30.8
Approach LOS		C		B		C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 76	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.81	
Intersection Signal Delay: 22.9	Intersection LOS: C
Intersection Capacity Utilization 104.2%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	58	636	30	7	337	33	16	267	53	48	145	38
Future Volume (veh/h)	58	636	30	7	337	33	16	267	53	48	145	38
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	62	684	32	8	362	35	17	287	57	52	156	41
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	124	848	38	81	867	82	87	387	74	149	317	74
Arrive On Green	0.54	0.54	0.54	0.54	0.54	0.54	0.27	0.27	0.27	0.27	0.27	0.27
Sat Flow, veh/h	81	1563	71	9	1598	152	35	1422	273	218	1168	273
Grp Volume(v), veh/h	778	0	0	405	0	0	361	0	0	249	0	0
Grp Sat Flow(s),veh/h/ln	1715	0	0	1759	0	0	1730	0	0	1659	0	0
Q Serve(g_s), s	7.8	0.0	0.0	0.0	0.0	0.0	1.9	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	18.0	0.0	0.0	6.6	0.0	0.0	9.2	0.0	0.0	5.9	0.0	0.0
Prop In Lane	0.08		0.04	0.02		0.09	0.05		0.16	0.21		0.16
Lane Grp Cap(c), veh/h	1011	0	0	1030	0	0	548	0	0	541	0	0
V/C Ratio(X)	0.77	0.00	0.00	0.39	0.00	0.00	0.66	0.00	0.00	0.46	0.00	0.00
Avail Cap(c_a), veh/h	2632	0	0	2702	0	0	1402	0	0	1293	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	9.1	0.0	0.0	6.6	0.0	0.0	16.2	0.0	0.0	15.0	0.0	0.0
Incr Delay (d2), s/veh	1.3	0.0	0.0	0.2	0.0	0.0	1.4	0.0	0.0	0.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.0	0.0	1.4	0.0	0.0	2.9	0.0	0.0	1.8	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	10.3	0.0	0.0	6.8	0.0	0.0	17.6	0.0	0.0	15.6	0.0	0.0
LnGrp LOS	B	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		778			405			361			249	
Approach Delay, s/veh		10.3			6.8			17.6			15.6	
Approach LOS		B			A			B			B	

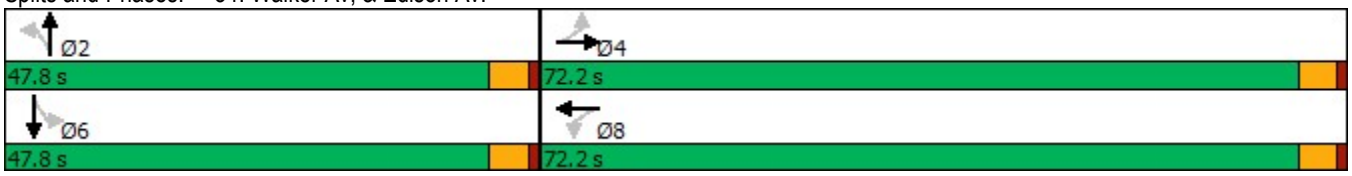
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		17.7		30.8		17.7		30.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		37.5		73.5		37.5		73.5				
Max Q Clear Time (g_c+I1), s		11.2		20.0		7.9		8.6				
Green Ext Time (p_c), s		2.0		6.3		1.4		2.5				

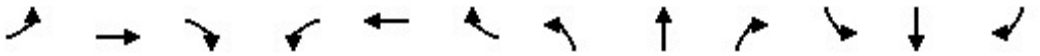
Intersection Summary												
HCM 6th Ctrl Delay			11.7									
HCM 6th LOS			B									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	19	699	8	351	1	92	152	51
Future Volume (vph)	19	699	8	351	1	92	152	51
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	72.2	72.2	72.2	72.2	47.8	47.8	47.8	47.8
Total Split (%)	60.2%	60.2%	60.2%	60.2%	39.8%	39.8%	39.8%	39.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		38.7		38.7		23.9		23.9
Actuated g/C Ratio		0.53		0.53		0.33		0.33
v/c Ratio		0.79		0.47		0.38		0.64
Control Delay		21.7		12.9		17.9		32.4
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		21.7		12.9		17.9		32.4
LOS		C		B		B		C
Approach Delay		21.7		12.9		17.9		32.4
Approach LOS		C		B		B		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 73	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.79	
Intersection Signal Delay: 20.3	Intersection LOS: C
Intersection Capacity Utilization 82.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 34: Walker Av, & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	19	699	5	8	351	64	1	92	121	152	51	17
Future Volume (veh/h)	19	699	5	8	351	64	1	92	121	152	51	17
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	21	760	5	9	382	70	1	100	132	165	55	18
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	108	1002	6	103	838	151	97	163	214	381	94	26
Arrive On Green	0.54	0.54	0.54	0.54	0.54	0.54	0.22	0.22	0.22	0.22	0.22	0.22
Sat Flow, veh/h	19	1848	12	10	1546	278	2	745	976	1002	429	117
Grp Volume(v), veh/h	786	0	0	461	0	0	233	0	0	238	0	0
Grp Sat Flow(s),veh/h/ln	1879	0	0	1834	0	0	1723	0	0	1548	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Cycle Q Clear(g_c), s	12.2	0.0	0.0	5.7	0.0	0.0	4.6	0.0	0.0	4.7	0.0	0.0
Prop In Lane	0.03		0.01	0.02		0.15	0.00		0.57	0.69		0.08
Lane Grp Cap(c), veh/h	1117	0	0	1092	0	0	473	0	0	501	0	0
V/C Ratio(X)	0.70	0.00	0.00	0.42	0.00	0.00	0.49	0.00	0.00	0.48	0.00	0.00
Avail Cap(c_a), veh/h	3441	0	0	3345	0	0	2077	0	0	1722	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	6.7	0.0	0.0	5.3	0.0	0.0	13.3	0.0	0.0	13.3	0.0	0.0
Incr Delay (d2), s/veh	0.8	0.0	0.0	0.3	0.0	0.0	0.8	0.0	0.0	0.7	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	0.0	0.0	0.8	0.0	0.0	1.3	0.0	0.0	1.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	7.6	0.0	0.0	5.5	0.0	0.0	14.1	0.0	0.0	14.0	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		786			461			233			238	
Approach Delay, s/veh		7.6			5.5			14.1			14.0	
Approach LOS		A			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		12.7		24.9		12.7		24.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		43.3		67.7		43.3		67.7				
Max Q Clear Time (g_c+I1), s		6.6		14.2		6.7		7.7				
Green Ext Time (p_c), s		1.4		6.2		1.5		3.0				

Intersection Summary		
HCM 6th Ctrl Delay		8.8
HCM 6th LOS		A

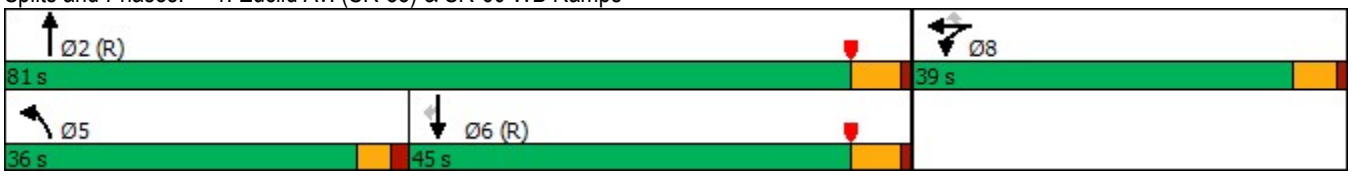
APPENDIX 6.1: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

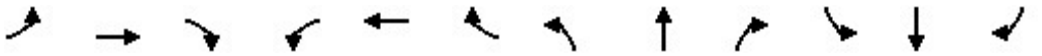
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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	781	7	406	565	962	1009	388
Future Volume (vph)	781	7	406	565	962	1009	388
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5	22.5
Total Split (s)	39.0	39.0	39.0	36.0	81.0	45.0	45.0
Total Split (%)	32.5%	32.5%	32.5%	30.0%	67.5%	37.5%	37.5%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5	5.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min
Act Effct Green (s)	33.7	33.7	33.7	31.8	75.8	39.5	39.5
Actuated g/C Ratio	0.28	0.28	0.28	0.26	0.63	0.33	0.33
v/c Ratio	0.93	0.97	0.76	1.27	0.45	0.91	0.54
Control Delay	68.8	77.8	37.0	177.0	12.5	51.2	8.3
Queue Delay	4.6	8.0	0.0	0.0	0.5	0.0	0.0
Total Delay	73.3	85.7	37.0	177.0	13.0	51.2	8.3
LOS	E	F	D	F	B	D	A
Approach Delay		66.5			73.7	39.3	
Approach LOS		E			E	D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 120	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.27	
Intersection Signal Delay: 60.0	Intersection LOS: E
Intersection Capacity Utilization 129.2%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	781	7	406	565	962	0	0	1009	388
Future Volume (veh/h)	0	0	0	781	7	406	565	962	0	0	1009	388
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				926	0	180	608	1034	0	0	1085	250
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				986	0	439	475	2311	0	0	1228	548
Arrive On Green				0.27	0.00	0.27	0.52	1.00	0.00	0.00	0.34	0.34
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				926	0	180	608	1034	0	0	1085	250
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				30.0	0.0	11.0	31.5	0.0	0.0	0.0	34.0	14.6
Cycle Q Clear(g_c), s				30.0	0.0	11.0	31.5	0.0	0.0	0.0	34.0	14.6
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				986	0	439	475	2311	0	0	1228	548
V/C Ratio(X)				0.94	0.00	0.41	1.28	0.45	0.00	0.00	0.88	0.46
Avail Cap(c_a), veh/h				1025	0	456	475	2311	0	0	1228	548
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.30	0.30	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				42.7	0.0	35.8	28.5	0.0	0.0	0.0	37.4	30.9
Incr Delay (d2), s/veh				15.0	0.0	0.2	131.0	0.2	0.0	0.0	9.4	2.7
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				14.9	0.0	4.2	26.4	0.1	0.0	0.0	16.1	5.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				57.7	0.0	36.0	159.5	0.2	0.0	0.0	46.8	33.7
LnGrp LOS				E	A	D	F	A	A	A	D	C
Approach Vol, veh/h					1106			1642			1335	
Approach Delay, s/veh					54.2			59.2			44.3	
Approach LOS					D			E			D	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	82.3		36.0	46.3		37.7						
Change Period (Y+Rc), s	5.5		4.5	5.5		5.0						
Max Green Setting (Gmax), s	75.5		31.5	39.5		34.0						
Max Q Clear Time (g_c+I1), s	2.0		33.5	36.0		32.0						
Green Ext Time (p_c), s	14.1		0.0	2.7		0.7						

Intersection Summary		
HCM 6th Ctrl Delay	53.0	
HCM 6th LOS	D	

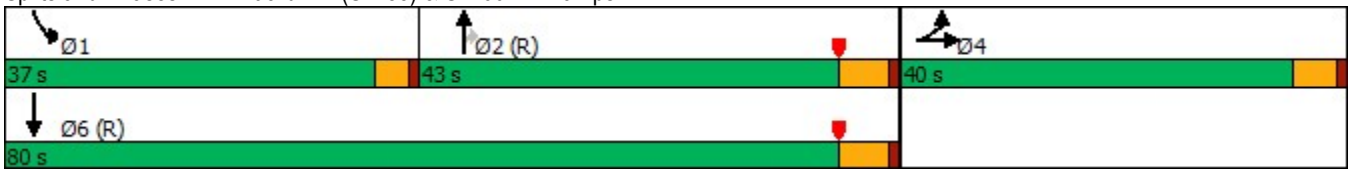
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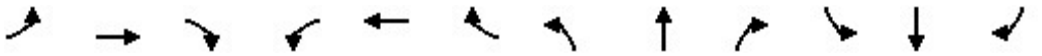
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	427	0	1101	833	411	1379
Future Volume (vph)	427	0	1101	833	411	1379
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	40.0	40.0	43.0	43.0	37.0	80.0
Total Split (%)	33.3%	33.3%	35.8%	35.8%	30.8%	66.7%
Yellow Time (s)	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	35.0	35.0	39.9	39.9	30.6	74.5
Actuated g/C Ratio	0.29	0.29	0.33	0.33	0.26	0.62
v/c Ratio	0.79	2.17	0.95	0.92	0.92	0.63
Control Delay	52.1	555.6	55.9	26.0	67.0	17.6
Queue Delay	56.4	5.2	2.3	0.0	1.6	1.6
Total Delay	108.6	560.9	58.2	26.0	68.5	19.2
LOS	F	F	E	C	E	B
Approach Delay		438.3	44.3			30.5
Approach LOS		F	D			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 2.17	
Intersection Signal Delay: 148.1	Intersection LOS: F
Intersection Capacity Utilization 129.2%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	427	0	990	0	0	0	0	1101	833	411	1379	0
Future Volume (veh/h)	427	0	990	0	0	0	0	1101	833	411	1379	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	440	0	942				0	1135	664	424	1422	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	528	0	470				0	1238	538	442	2241	0
Arrive On Green	0.29	0.00	0.29				0.00	0.34	0.34	0.49	1.00	0.00
Sat Flow, veh/h	1810	0	1610				0	3705	1567	1810	3705	0
Grp Volume(v), veh/h	440	0	942				0	1135	664	424	1422	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1567	1810	1805	0
Q Serve(g_s), s	27.3	0.0	35.0				0.0	36.2	41.2	27.0	0.0	0.0
Cycle Q Clear(g_c), s	27.3	0.0	35.0				0.0	36.2	41.2	27.0	0.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	528	0	470				0	1238	538	442	2241	0
V/C Ratio(X)	0.83	0.00	2.01				0.00	0.92	1.24	0.96	0.63	0.00
Avail Cap(c_a), veh/h	528	0	470				0	1238	538	498	2241	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.44	0.44	0.28	0.28	0.00
Uniform Delay (d), s/veh	39.8	0.0	42.5				0.0	37.8	39.4	30.1	0.0	0.0
Incr Delay (d2), s/veh	10.4	0.0	460.1				0.0	6.1	113.1	11.7	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.2	0.0	73.3				0.0	16.4	32.1	9.7	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.2	0.0	502.6				0.0	43.8	152.5	41.8	0.4	0.0
LnGrp LOS	D	A	F				A	D	F	D	A	A
Approach Vol, veh/h		1382						1799			1846	
Approach Delay, s/veh		358.6						83.9			9.9	
Approach LOS		F						F			A	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	33.3	46.7		40.0		80.0
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	33.0	37.5		35.0		74.5
Max Q Clear Time (g_c+I1), s	29.0	43.2		37.0		2.0
Green Ext Time (p_c), s	0.3	0.0		0.0		24.9

Intersection Summary		
HCM 6th Ctrl Delay		132.3
HCM 6th LOS		F

Notes

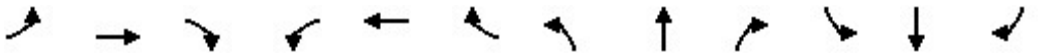
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	105	270	110	409	111	1641	41	196	1976	62
Future Volume (vph)	105	270	110	409	111	1641	41	196	1976	62
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	10.0	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	9.6	29.8	9.6	29.8	9.6	27.4	27.4	9.6	29.4	29.4
Total Split (s)	21.0	34.6	17.4	31.0	23.0	50.6	50.6	17.4	45.0	45.0
Total Split (%)	17.5%	28.8%	14.5%	25.8%	19.2%	42.2%	42.2%	14.5%	37.5%	37.5%
Yellow Time (s)	3.6	4.8	3.6	4.8	3.6	4.4	4.4	3.6	4.4	4.4
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	4.6	5.4	5.4	4.6	5.4	5.4
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	11.6	23.4	11.0	22.7	12.3	45.5	45.5	11.1	44.3	44.3
Actuated g/C Ratio	0.10	0.21	0.10	0.20	0.11	0.41	0.41	0.10	0.40	0.40
v/c Ratio	0.64	0.58	0.71	0.85	0.64	0.84	0.06	0.69	1.04	0.09
Control Delay	66.6	35.3	74.2	52.4	64.9	35.8	0.2	62.4	66.9	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	66.6	35.3	74.2	52.4	64.9	35.8	0.2	62.4	66.9	0.3
LOS	E	D	E	D	E	D	A	E	E	A
Approach Delay		41.6		55.9		36.8			64.7	
Approach LOS		D		E		D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 111.4	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.04	
Intersection Signal Delay: 51.7	Intersection LOS: D
Intersection Capacity Utilization 88.6%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	105	270	147	110	409	171	111	1641	41	196	1976	62
Future Volume (veh/h)	105	270	147	110	409	171	111	1641	41	196	1976	62
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	108	278	116	113	422	146	114	1692	29	202	2037	46
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	132	468	190	137	501	171	139	2136	663	258	2142	664
Arrive On Green	0.08	0.20	0.20	0.08	0.20	0.20	0.09	0.43	0.43	0.09	0.44	0.44
Sat Flow, veh/h	1619	2371	965	1619	2498	855	1619	4914	1524	2956	4914	1524
Grp Volume(v), veh/h	108	199	195	113	288	280	114	1692	29	202	2037	46
Grp Sat Flow(s),veh/h/ln	1619	1710	1626	1619	1710	1643	1619	1638	1524	1478	1638	1524
Q Serve(g_s), s	6.8	11.0	11.4	7.1	16.8	17.1	7.2	30.9	1.1	7.0	41.5	1.8
Cycle Q Clear(g_c), s	6.8	11.0	11.4	7.1	16.8	17.1	7.2	30.9	1.1	7.0	41.5	1.8
Prop In Lane	1.00		0.59	1.00		0.52	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	132	337	321	137	343	329	139	2136	663	258	2142	664
V/C Ratio(X)	0.82	0.59	0.61	0.82	0.84	0.85	0.82	0.79	0.04	0.78	0.95	0.07
Avail Cap(c_a), veh/h	255	474	450	199	414	398	286	2136	663	364	2142	664
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.0	37.9	38.1	46.8	40.0	40.1	46.7	25.4	16.9	46.5	28.3	17.1
Incr Delay (d2), s/veh	4.6	1.6	1.9	10.9	12.2	13.9	4.5	3.1	0.1	4.4	10.9	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	4.6	4.5	3.2	7.9	7.9	3.0	11.8	0.4	2.7	17.2	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.6	39.5	40.0	57.7	52.1	54.0	51.2	28.5	17.1	50.9	39.2	17.3
LnGrp LOS	D	D	D	E	D	D	D	C	B	D	D	B
Approach Vol, veh/h		502			681			1835			2285	
Approach Delay, s/veh		42.3			53.8			29.7			39.8	
Approach LOS		D			D			C			D	

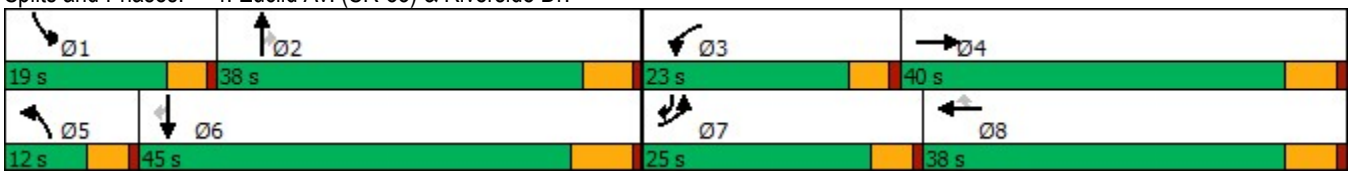
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	50.6	13.4	26.3	13.5	50.7	13.1	26.6
Change Period (Y+Rc), s	4.6	5.4	4.6	5.8	4.6	5.4	4.6	5.8
Max Green Setting (Gmax), s	12.8	45.2	12.8	28.8	18.4	39.6	16.4	25.2
Max Q Clear Time (g_c+I1), s	9.0	32.9	9.1	13.4	9.2	43.5	8.8	19.1
Green Ext Time (p_c), s	0.1	8.5	0.0	1.8	0.1	0.0	0.1	1.6

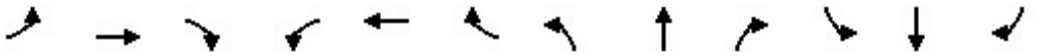
Intersection Summary	
HCM 6th Ctrl Delay	38.3
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	184	357	237	506	108	66	1234	104	243	1869	131
Future Volume (vph)	184	357	237	506	108	66	1234	104	243	1869	131
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	25.0	40.0	23.0	38.0	38.0	12.0	38.0	38.0	19.0	45.0	25.0
Total Split (%)	20.8%	33.3%	19.2%	31.7%	31.7%	10.0%	31.7%	31.7%	15.8%	37.5%	20.8%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	17.2	34.2	18.4	35.4	35.4	7.0	32.6	32.6	14.4	40.9	64.6
Actuated g/C Ratio	0.14	0.28	0.15	0.30	0.30	0.06	0.27	0.27	0.12	0.34	0.54
v/c Ratio	0.81	0.99	0.98	0.51	0.20	0.71	1.36	0.20	1.28	1.64	0.15
Control Delay	75.3	80.8	103.4	38.0	2.4	92.6	202.3	2.5	204.0	319.2	5.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	75.3	80.8	103.4	38.0	2.4	92.6	202.3	2.5	204.0	319.2	5.0
LOS	E	F	F	D	A	F	F	A	F	F	A
Approach Delay		79.3		51.8			182.4			288.3	
Approach LOS		E		D			F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.64	
Intersection Signal Delay: 193.4	Intersection LOS: F
Intersection Capacity Utilization 119.5%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	184	357	131	237	506	108	66	1234	104	243	1869	131
Future Volume (veh/h)	184	357	131	237	506	108	66	1234	104	243	1869	131
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	188	364	107	242	516	58	67	1259	64	248	1907	79
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	212	376	111	246	1037	456	83	921	411	193	1151	714
Arrive On Green	0.13	0.28	0.28	0.15	0.30	0.30	0.05	0.27	0.27	0.12	0.34	0.34
Sat Flow, veh/h	1619	1332	392	1619	3420	1503	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	188	0	471	242	516	58	67	1259	64	248	1907	79
Grp Sat Flow(s),veh/h/ln	1619	0	1724	1619	1710	1503	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	13.8	0.0	32.7	18.0	15.0	3.4	5.0	32.6	3.9	14.4	40.8	3.5
Cycle Q Clear(g_c), s	13.8	0.0	32.7	18.0	15.0	3.4	5.0	32.6	3.9	14.4	40.8	3.5
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	212	0	487	246	1037	456	83	921	411	193	1151	714
V/C Ratio(X)	0.88	0.00	0.97	0.98	0.50	0.13	0.80	1.37	0.16	1.29	1.66	0.11
Avail Cap(c_a), veh/h	273	0	487	246	1037	456	99	921	411	193	1151	714
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.7	0.0	42.9	51.2	34.6	30.6	56.8	44.3	33.8	53.4	40.2	18.1
Incr Delay (d2), s/veh	20.1	0.0	32.5	52.5	0.4	0.1	27.5	172.4	0.2	162.9	299.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.6	0.0	17.7	10.7	6.1	1.2	2.6	35.0	1.4	14.5	64.3	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.8	0.0	75.4	103.7	35.0	30.7	84.3	216.6	33.9	216.3	339.4	18.1
LnGrp LOS	E	A	E	F	D	C	F	F	C	F	F	B
Approach Vol, veh/h		659			816			1390			2234	
Approach Delay, s/veh		74.4			55.1			201.8			314.4	
Approach LOS		E			E			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	39.1	23.0	40.0	10.8	47.3	20.5	42.5
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	14.4	* 33	18.4	34.2	7.4	38.5	20.4	32.2
Max Q Clear Time (g_c+I1), s	16.4	34.6	20.0	34.7	7.0	42.8	15.8	17.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9

Intersection Summary	
HCM 6th Ctrl Delay	211.2
HCM 6th LOS	F

Notes

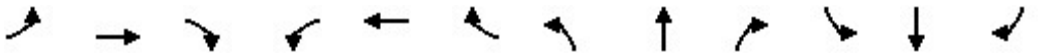
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	77	196	74	119	304	48	1250	132	87	2011	95
Future Volume (vph)	77	196	74	119	304	48	1250	132	87	2011	95
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	52.0	52.0	52.0	52.0	52.0	12.0	52.0	52.0	16.0	56.0	56.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	43.3%	10.0%	43.3%	43.3%	13.3%	46.7%	46.7%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	46.2	46.2	46.2		46.2	6.7	47.1	47.1	9.8	50.9	50.9
Actuated g/C Ratio	0.39	0.39	0.39		0.39	0.06	0.40	0.40	0.08	0.43	0.43
v/c Ratio	0.38	0.29	0.12		1.11	0.55	0.96	0.21	0.68	1.43	0.14
Control Delay	33.1	26.8	5.7		107.0	77.0	52.1	13.5	78.0	226.5	9.2
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	33.1	26.8	5.7		107.0	77.0	52.1	13.5	78.0	226.5	9.2
LOS	C	C	A		F	E	D	B	E	F	A
Approach Delay		23.7			107.0		49.4			211.1	
Approach LOS		C			F		D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.43	
Intersection Signal Delay: 132.7	Intersection LOS: F
Intersection Capacity Utilization 127.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	77	196	74	119	304	169	48	1250	132	87	2011	95
Future Volume (veh/h)	77	196	74	119	304	169	48	1250	132	87	2011	95
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	80	204	56	124	317	175	50	1302	98	91	2095	62
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	203	705	597	132	284	151	62	1356	605	112	1460	651
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.04	0.40	0.40	0.07	0.43	0.43
Sat Flow, veh/h	822	1800	1525	245	726	385	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	80	204	56	616	0	0	50	1302	98	91	2095	62
Grp Sat Flow(s),veh/h/ln	822	1800	1525	1356	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	9.2	2.7	37.0	0.0	0.0	3.6	43.8	4.9	6.5	50.4	2.9
Cycle Q Clear(g_c), s	20.3	9.2	2.7	46.2	0.0	0.0	3.6	43.8	4.9	6.5	50.4	2.9
Prop In Lane	1.00		1.00	0.20		0.28	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	203	705	597	567	0	0	62	1356	605	112	1460	651
V/C Ratio(X)	0.39	0.29	0.09	1.09	0.00	0.00	0.80	0.96	0.16	0.82	1.43	0.10
Avail Cap(c_a), veh/h	203	705	597	567	0	0	102	1356	605	156	1460	651
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.0	24.7	22.7	39.2	0.0	0.0	56.3	34.7	23.0	54.2	33.8	20.2
Incr Delay (d2), s/veh	1.2	0.2	0.1	63.1	0.0	0.0	8.7	16.6	0.6	14.1	199.5	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	3.8	1.0	26.0	0.0	0.0	1.6	19.7	1.7	3.0	59.3	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.3	24.9	22.8	102.3	0.0	0.0	65.0	51.3	23.5	68.3	233.3	20.5
LnGrp LOS	C	C	C	F	A	A	E	D	C	E	F	C
Approach Vol, veh/h		340			616			1450			2248	
Approach Delay, s/veh		25.6			102.3			49.9			220.8	
Approach LOS		C			F			D			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.7	53.3		52.0	9.1	56.9		52.0				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 47		46.2	7.4	49.5		46.2				
Max Q Clear Time (g_c+I1), s	8.5	45.8		22.3	5.6	52.4		48.2				
Green Ext Time (p_c), s	0.0	0.8		1.7	0.0	0.0		0.0				

Intersection Summary		
HCM 6th Ctrl Delay		137.6
HCM 6th LOS		F

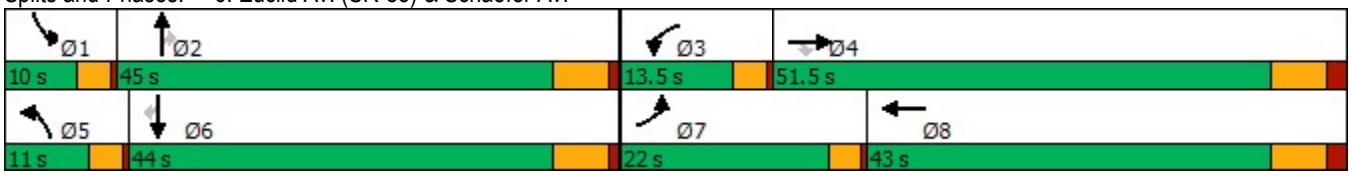
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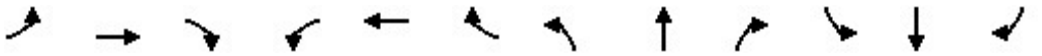
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	238	79	105	2	24	107	1194	34	52	1976	171
Future Volume (vph)	238	79	105	2	24	107	1194	34	52	1976	171
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	22.0	51.5	51.5	13.5	43.0	11.0	45.0	45.0	10.0	44.0	44.0
Total Split (%)	18.3%	42.9%	42.9%	11.3%	35.8%	9.2%	37.5%	37.5%	8.3%	36.7%	36.7%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	19.0	25.4	25.4	10.3	10.6	7.7	42.5	42.5	6.3	39.0	39.0
Actuated g/C Ratio	0.21	0.28	0.28	0.11	0.12	0.08	0.47	0.47	0.07	0.43	0.43
v/c Ratio	0.74	0.16	0.22	0.01	0.16	0.82	0.78	0.04	0.49	1.40	0.24
Control Delay	51.3	24.8	5.9	44.5	30.2	85.8	28.5	0.1	61.1	211.5	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	51.3	24.8	5.9	44.5	30.2	85.8	28.5	0.1	61.1	211.5	8.4
LOS	D	C	A	D	C	F	C	A	E	F	A
Approach Delay		35.1			31.0		32.4			192.2	
Approach LOS		D			C		C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 91.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.40	
Intersection Signal Delay: 120.7	Intersection LOS: F
Intersection Capacity Utilization 99.9%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	238	79	105	2	24	8	107	1194	34	52	1976	171
Future Volume (veh/h)	238	79	105	2	24	8	107	1194	34	52	1976	171
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	248	82	72	2	25	5	111	1244	35	54	2058	141
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	282	408	346	9	85	17	137	1675	747	69	1531	683
Arrive On Green	0.17	0.23	0.23	0.01	0.06	0.06	0.08	0.49	0.49	0.04	0.45	0.45
Sat Flow, veh/h	1619	1800	1525	1619	1456	291	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	248	82	72	2	0	30	111	1244	35	54	2058	141
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1748	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	12.7	3.1	3.3	0.1	0.0	1.4	5.7	24.8	1.0	2.8	38.0	4.8
Cycle Q Clear(g_c), s	12.7	3.1	3.3	0.1	0.0	1.4	5.7	24.8	1.0	2.8	38.0	4.8
Prop In Lane	1.00		1.00	1.00		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	282	408	346	9	0	102	137	1675	747	69	1531	683
V/C Ratio(X)	0.88	0.20	0.21	0.23	0.00	0.30	0.81	0.74	0.05	0.79	1.34	0.21
Avail Cap(c_a), veh/h	353	944	800	191	0	741	143	1675	747	124	1531	683
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.2	26.6	26.6	42.0	0.0	38.3	38.2	17.4	11.3	40.2	23.4	14.3
Incr Delay (d2), s/veh	16.3	0.2	0.2	4.8	0.0	1.2	25.8	1.8	0.0	7.2	159.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.9	1.3	1.1	0.1	0.0	0.6	3.1	8.3	0.3	1.2	46.3	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.5	26.8	26.8	46.8	0.0	39.5	64.0	19.2	11.3	47.4	182.6	14.4
LnGrp LOS	D	C	C	D	A	D	E	B	B	D	F	B
Approach Vol, veh/h		402			32			1390			2253	
Approach Delay, s/veh		41.4			39.9			22.6			168.8	
Approach LOS		D			D			C			F	

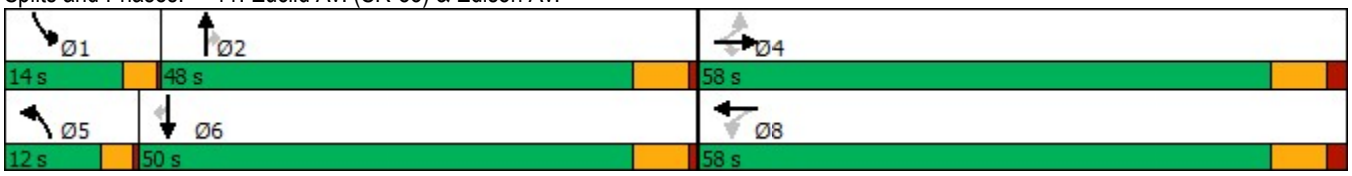
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.1	47.6	4.0	26.2	10.7	44.0	18.3	11.9
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	6.5	39.0	10.0	44.5	7.5	38.0	18.5	36.0
Max Q Clear Time (g_c+I1), s	4.8	26.8	2.1	5.3	7.7	40.0	14.7	3.4
Green Ext Time (p_c), s	0.0	6.2	0.0	0.5	0.0	0.0	0.1	0.1

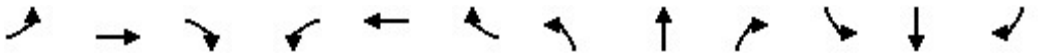
Intersection Summary	
HCM 6th Ctrl Delay	105.4
HCM 6th LOS	F

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	212	417	200	104	511	163	1010	51	229	1523	249
Future Volume (vph)	212	417	200	104	511	163	1010	51	229	1523	249
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	58.0	58.0	58.0	58.0	58.0	12.0	48.0	48.0	14.0	50.0	50.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	10.0%	40.0%	40.0%	11.7%	41.7%	41.7%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	51.0	51.0	51.0	51.0	51.0	8.3	41.8	41.8	10.5	44.0	44.0
Actuated g/C Ratio	0.43	0.43	0.43	0.43	0.43	0.07	0.35	0.35	0.09	0.37	0.37
v/c Ratio	2.21	0.56	0.28	0.41	0.90	0.77	0.87	0.09	1.67	1.25	0.40
Control Delay	598.7	29.5	5.1	29.8	48.2	78.2	45.8	4.4	365.1	153.3	15.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	598.7	29.5	5.1	29.8	48.2	78.2	45.8	4.4	365.1	153.3	15.2
LOS	F	C	A	C	D	E	D	A	F	F	B
Approach Delay		169.4			45.7		48.4			160.3	
Approach LOS		F			D		D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.21	
Intersection Signal Delay: 115.4	Intersection LOS: F
Intersection Capacity Utilization 120.3%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	212	417	200	104	511	141	163	1010	51	229	1523	249
Future Volume (veh/h)	212	417	200	104	511	141	163	1010	51	229	1523	249
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	219	430	170	107	527	135	168	1041	46	236	1570	222
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	110	766	649	243	588	151	217	1193	531	142	1256	560
Arrive On Green	0.43	0.43	0.43	0.43	0.43	0.43	0.07	0.35	0.35	0.09	0.37	0.37
Sat Flow, veh/h	703	1800	1524	744	1382	354	3141	3420	1521	1619	3420	1524
Grp Volume(v), veh/h	219	430	170	107	0	662	168	1041	46	236	1570	222
Grp Sat Flow(s),veh/h/ln	703	1800	1524	744	0	1735	1570	1710	1521	1619	1710	1524
Q Serve(g_s), s	8.6	21.6	8.6	15.2	0.0	42.4	6.3	34.1	2.4	10.5	44.0	12.9
Cycle Q Clear(g_c), s	51.0	21.6	8.6	36.8	0.0	42.4	6.3	34.1	2.4	10.5	44.0	12.9
Prop In Lane	1.00		1.00	1.00		0.20	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	110	766	649	243	0	739	217	1193	531	142	1256	560
V/C Ratio(X)	1.98	0.56	0.26	0.44	0.00	0.90	0.77	0.87	0.09	1.66	1.25	0.40
Avail Cap(c_a), veh/h	110	766	649	243	0	739	223	1199	533	142	1256	560
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.9	25.9	22.2	39.8	0.0	31.9	54.8	36.5	26.2	54.6	37.9	28.1
Incr Delay (d2), s/veh	472.9	0.9	0.2	1.3	0.0	13.6	13.7	7.3	0.1	327.2	119.1	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	17.8	9.0	3.0	2.8	0.0	19.4	2.8	14.4	0.8	17.0	37.7	4.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	530.8	26.9	22.4	41.1	0.0	45.5	68.5	43.8	26.3	381.9	157.0	28.5
LnGrp LOS	F	C	C	D	A	D	E	D	C	F	F	C
Approach Vol, veh/h		819			769			1255			2028	
Approach Delay, s/veh		160.7			44.9			46.5			169.1	
Approach LOS		F			D			D			F	

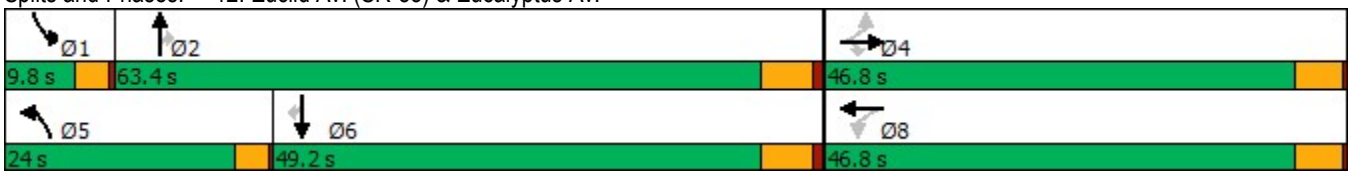
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.0	47.8		58.0	11.8	50.0		58.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	10.5	42.0		51.0	8.5	44.0		51.0				
Max Q Clear Time (g_c+I1), s	12.5	36.1		53.0	8.3	46.0		44.4				
Green Ext Time (p_c), s	0.0	3.1		0.0	0.0	0.0		2.6				

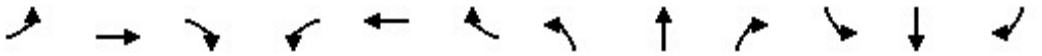
Intersection Summary			
HCM 6th Ctrl Delay		116.5	
HCM 6th LOS		F	

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	61	42	164	31	158	169	1104	15	262	1659	39
Future Volume (vph)	61	42	164	31	158	169	1104	15	262	1659	39
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	24.0	63.4	63.4	9.8	49.2	49.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	20.0%	52.8%	52.8%	8.2%	41.0%	41.0%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	20.9	20.9	20.9	20.9	20.9	14.8	52.8	52.8	6.4	44.5	44.5
Actuated g/C Ratio	0.22	0.22	0.22	0.22	0.22	0.16	0.56	0.56	0.07	0.47	0.47
v/c Ratio	0.51	0.11	0.37	0.12	0.70	0.72	0.62	0.02	2.59	1.11	0.06
Control Delay	46.6	29.1	6.7	29.5	39.7	56.4	17.5	0.1	756.6	85.3	1.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	46.6	29.1	6.7	29.5	39.7	56.4	17.5	0.1	756.6	85.3	1.1
LOS	D	C	A	C	D	E	B	A	F	F	A
Approach Delay		19.4			38.7		22.4			173.4	
Approach LOS		B			D		C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 94.5	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.59	
Intersection Signal Delay: 101.2	Intersection LOS: F
Intersection Capacity Utilization 94.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	61	42	164	31	158	102	169	1104	15	262	1659	39
Future Volume (veh/h)	61	42	164	31	158	102	169	1104	15	262	1659	39
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	66	45	91	33	170	104	182	1187	14	282	1784	30
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	171	431	365	329	250	153	215	1843	822	111	1625	724
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.13	0.54	0.54	0.07	0.48	0.48
Sat Flow, veh/h	1005	1800	1525	1139	1045	640	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	66	45	91	33	0	274	182	1187	14	282	1784	30
Grp Sat Flow(s),veh/h/ln	1005	1800	1525	1139	0	1685	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	5.8	1.8	4.4	2.1	0.0	13.5	10.1	22.4	0.4	6.3	43.5	1.0
Cycle Q Clear(g_c), s	19.4	1.8	4.4	3.9	0.0	13.5	10.1	22.4	0.4	6.3	43.5	1.0
Prop In Lane	1.00		1.00	1.00		0.38	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	171	431	365	329	0	403	215	1843	822	111	1625	724
V/C Ratio(X)	0.39	0.10	0.25	0.10	0.00	0.68	0.85	0.64	0.02	2.53	1.10	0.04
Avail Cap(c_a), veh/h	391	826	700	579	0	773	362	2155	961	111	1625	724
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.4	27.2	28.2	28.7	0.0	31.6	38.8	14.9	9.8	42.6	24.0	12.9
Incr Delay (d2), s/veh	1.1	0.1	0.3	0.1	0.0	1.5	6.9	0.5	0.0	715.0	54.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	0.7	1.6	0.6	0.0	5.3	4.1	7.2	0.1	24.5	26.7	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.5	27.2	28.4	28.8	0.0	33.1	45.8	15.4	9.8	757.6	78.3	12.9
LnGrp LOS	D	C	C	C	A	C	D	B	A	F	F	B
Approach Vol, veh/h		202			307			1383			2096	
Approach Delay, s/veh		32.4			32.7			19.4			168.7	
Approach LOS		C			C			B			F	

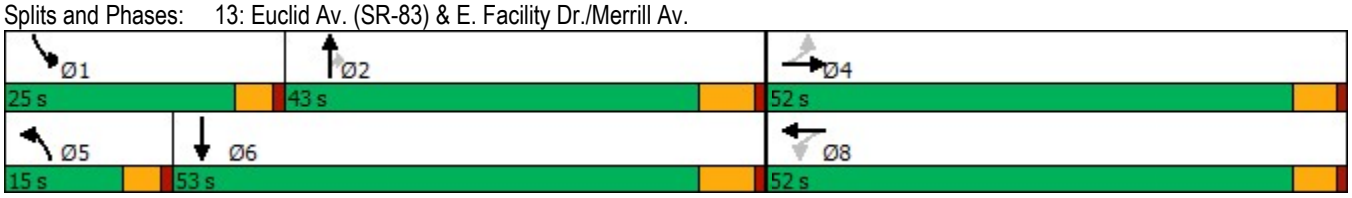
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.8	55.0		26.7	15.6	49.2		26.7				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	6.3	57.7		42.0	20.5	43.5		42.0				
Max Q Clear Time (g_c+I1), s	8.3	24.4		21.4	12.1	45.5		15.5				
Green Ext Time (p_c), s	0.0	9.0		0.6	0.2	0.0		1.3				

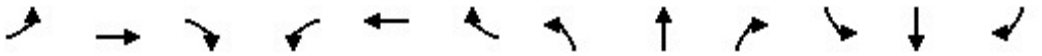
Intersection Summary			
HCM 6th Ctrl Delay		99.6	
HCM 6th LOS		F	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	7	5	368	55	13	1000	572	587	1163
Future Volume (vph)	7	5	368	55	13	1000	572	587	1163
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	52.0	52.0	52.0	52.0	15.0	43.0	43.0	25.0	53.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	12.5%	35.8%	35.8%	20.8%	44.2%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		47.0		47.0	10.0	37.0	37.0	20.5	56.2
Actuated g/C Ratio		0.39		0.39	0.08	0.31	0.31	0.17	0.47
v/c Ratio		0.03		1.30	0.10	1.01	0.99	2.27	0.82
Control Delay		18.8		176.7	52.9	71.6	61.8	607.0	33.9
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		18.8		176.7	52.9	71.6	61.8	607.0	33.9
LOS		B		F	D	E	E	F	C
Approach Delay		18.8		176.7		67.9			219.6
Approach LOS		B		F		E			F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.27	
Intersection Signal Delay: 153.0	Intersection LOS: F
Intersection Capacity Utilization 127.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	5	4	368	55	270	13	1000	572	587	1163	61
Future Volume (veh/h)	7	5	4	368	55	270	13	1000	572	587	1163	61
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	7	5	2	391	59	263	14	1064	594	624	1237	49
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	284	196	72	358	47	209	50	1054	470	277	1503	59
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.03	0.31	0.31	0.17	0.45	0.45
Sat Flow, veh/h	610	500	185	794	120	534	1619	3420	1525	1619	3353	133
Grp Volume(v), veh/h	14	0	0	713	0	0	14	1064	594	624	630	656
Grp Sat Flow(s),veh/h/ln	1295	0	0	1448	0	0	1619	1710	1525	1619	1710	1776
Q Serve(g_s), s	0.0	0.0	0.0	46.4	0.0	0.0	1.0	37.0	37.0	20.5	38.7	38.8
Cycle Q Clear(g_c), s	0.6	0.0	0.0	47.0	0.0	0.0	1.0	37.0	37.0	20.5	38.7	38.8
Prop In Lane	0.50		0.14	0.55		0.37	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	552	0	0	614	0	0	50	1055	470	277	766	796
V/C Ratio(X)	0.03	0.00	0.00	1.16	0.00	0.00	0.28	1.01	1.26	2.26	0.82	0.82
Avail Cap(c_a), veh/h	552	0	0	614	0	0	142	1055	470	277	766	796
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.4	0.0	0.0	38.2	0.0	0.0	56.8	41.5	41.5	49.7	28.9	29.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	89.9	0.0	0.0	1.1	29.9	134.5	576.7	7.2	7.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	32.9	0.0	0.0	0.4	18.9	30.5	52.2	15.9	16.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	22.4	0.0	0.0	128.1	0.0	0.0	57.9	71.4	176.0	626.4	36.2	36.0
LnGrp LOS	C	A	A	F	A	A	E	F	F	F	D	D
Approach Vol, veh/h		14			713			1672			1910	
Approach Delay, s/veh		22.4			128.1			108.5			229.0	
Approach LOS		C			F			F			F	

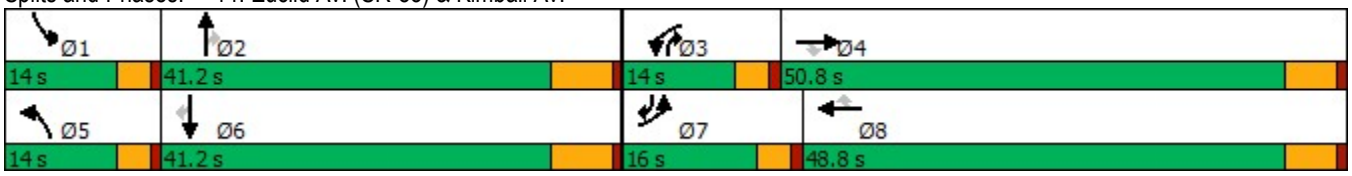
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	25.0	43.0		52.0	8.2	59.8		52.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	20.5	37.0		47.0	10.5	47.0		47.0				
Max Q Clear Time (g_c+I1), s	22.5	39.0		2.6	3.0	40.8		49.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	3.6		0.0				

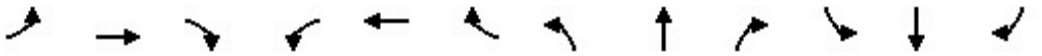
Intersection Summary												
HCM 6th Ctrl Delay			164.8									
HCM 6th LOS			F									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	162	317	61	113	1077	340	82	1092	67	198	873	422
Future Volume (vph)	162	317	61	113	1077	340	82	1092	67	198	873	422
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	47.8	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	16.0	50.8	50.8	14.0	48.8	48.8	14.0	41.2	14.0	14.0	41.2	16.0
Total Split (%)	13.3%	42.3%	42.3%	11.7%	40.7%	40.7%	11.7%	34.3%	11.7%	11.7%	34.3%	13.3%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	4.8	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	5.8	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	11.0	42.0	42.0	10.0	41.0	41.0	10.0	34.8	51.3	9.8	37.6	51.1
Actuated g/C Ratio	0.09	0.36	0.36	0.09	0.35	0.35	0.09	0.30	0.44	0.08	0.32	0.44
v/c Ratio	0.60	0.27	0.10	0.84	0.93	0.52	0.62	1.11	0.10	0.83	0.82	0.62
Control Delay	61.1	27.0	1.4	97.5	50.2	13.3	72.4	101.7	5.2	79.9	45.4	24.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	61.1	27.0	1.4	97.5	50.2	13.3	72.4	101.7	5.2	79.9	45.4	24.9
LOS	E	C	A	F	D	B	E	F	A	E	D	C
Approach Delay		34.3			45.5			94.5			44.2	
Approach LOS		C			D			F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.9	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.11	
Intersection Signal Delay: 56.5	Intersection LOS: E
Intersection Capacity Utilization 95.2%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	162	317	61	113	1077	340	82	1092	67	198	873	422
Future Volume (veh/h)	162	317	61	113	1077	340	82	1092	67	198	873	422
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	167	327	53	116	1110	173	85	1126	55	204	900	384
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	256	1202	536	139	1200	535	131	1031	591	252	1044	592
Arrive On Green	0.09	0.35	0.35	0.09	0.35	0.35	0.08	0.30	0.30	0.09	0.31	0.31
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	167	327	53	116	1110	173	85	1126	55	204	900	384
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	6.3	7.9	2.7	8.1	35.9	9.6	5.9	34.7	2.6	7.8	28.6	24.0
Cycle Q Clear(g_c), s	6.3	7.9	2.7	8.1	35.9	9.6	5.9	34.7	2.6	7.8	28.6	24.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	256	1202	536	139	1200	535	131	1031	591	252	1044	592
V/C Ratio(X)	0.65	0.27	0.10	0.84	0.93	0.32	0.65	1.09	0.09	0.81	0.86	0.65
Avail Cap(c_a), veh/h	308	1337	596	141	1277	570	141	1031	591	257	1044	592
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.9	26.8	25.1	51.8	35.9	27.4	51.3	40.2	22.4	51.8	37.7	28.6
Incr Delay (d2), s/veh	2.1	0.1	0.1	31.3	10.7	0.1	6.6	56.7	0.1	16.0	7.7	2.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	3.1	1.0	4.4	15.9	3.4	2.5	21.6	0.9	3.3	12.2	8.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	53.0	26.9	25.2	83.2	46.6	27.5	57.9	97.0	22.5	67.8	45.4	31.4
LnGrp LOS	D	C	C	F	D	C	E	F	C	E	D	C
Approach Vol, veh/h		547			1399			1266			1488	
Approach Delay, s/veh		34.7			47.3			91.1			44.9	
Approach LOS		C			D			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	41.2	13.9	46.3	13.3	41.7	14.0	46.2
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	10.0	34.7	10.0	45.0	10.0	34.7	12.0	43.0
Max Q Clear Time (g_c+I1), s	9.8	36.7	10.1	9.9	7.9	30.6	8.3	37.9
Green Ext Time (p_c), s	0.0	0.0	0.0	2.2	0.0	2.9	0.1	2.5

Intersection Summary	
HCM 6th Ctrl Delay	56.9
HCM 6th LOS	E

Intersection	
Intersection Delay, s/veh	13.5
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	19	125	10	19	351	17	19	111	15	19	122	52
Future Vol, veh/h	19	125	10	19	351	17	19	111	15	19	122	52
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	21	137	11	21	386	19	21	122	16	21	134	57
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	10.8	16.5	11	11.6
HCM LOS	B	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	12%	5%	10%
Vol Thru, %	77%	81%	91%	63%
Vol Right, %	10%	6%	4%	27%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	145	154	387	193
LT Vol	19	19	19	19
Through Vol	111	125	351	122
RT Vol	15	10	17	52
Lane Flow Rate	159	169	425	212
Geometry Grp	1	1	1	1
Degree of Util (X)	0.26	0.266	0.62	0.334
Departure Headway (Hd)	5.88	5.655	5.251	5.675
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	607	633	685	630
Service Time	3.946	3.718	3.3	3.736
HCM Lane V/C Ratio	0.262	0.267	0.62	0.337
HCM Control Delay	11	10.8	16.5	11.6
HCM Lane LOS	B	B	C	B
HCM 95th-tile Q	1	1.1	4.3	1.5

Intersection	
Intersection Delay, s/veh	250.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	41	661	17	7	591	33	12	188	6	11	133	38
Future Vol, veh/h	41	661	17	7	591	33	12	188	6	11	133	38
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	49	796	20	8	712	40	14	227	7	13	160	46
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	359	265.7	27.3	24.9
HCM LOS	F	F	D	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	6%	6%	1%	6%
Vol Thru, %	91%	92%	94%	73%
Vol Right, %	3%	2%	5%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	206	719	631	182
LT Vol	12	41	7	11
Through Vol	188	661	591	133
RT Vol	6	17	33	38
Lane Flow Rate	248	866	760	219
Geometry Grp	1	1	1	1
Degree of Util (X)	0.57	1.732	1.514	0.507
Departure Headway (Hd)	10.857	8.2	8.517	11.043
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	335	450	433	329
Service Time	8.857	6.2	6.517	9.043
HCM Lane V/C Ratio	0.74	1.924	1.755	0.666
HCM Control Delay	27.3	359	265.7	24.9
HCM Lane LOS	D	F	F	C
HCM 95th-tile Q	3.3	46.3	34.2	2.7

Intersection	
Intersection Delay, s/veh	93.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	41	100	34	33	282	58	43	401	10	34	469	51
Future Vol, veh/h	41	100	34	33	282	58	43	401	10	34	469	51
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	43	104	35	34	294	60	45	418	10	35	489	53
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	21.5	47.8	83	155.8
HCM LOS	C	E	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	9%	23%	9%	6%
Vol Thru, %	88%	57%	76%	85%
Vol Right, %	2%	19%	16%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	454	175	373	554
LT Vol	43	41	33	34
Through Vol	401	100	282	469
RT Vol	10	34	58	51
Lane Flow Rate	473	182	389	577
Geometry Grp	1	1	1	1
Degree of Util (X)	1.036	0.465	0.867	1.252
Departure Headway (Hd)	8.492	10.079	8.839	8.053
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	430	359	412	456
Service Time	6.492	8.079	6.839	6.053
HCM Lane V/C Ratio	1.1	0.507	0.944	1.265
HCM Control Delay	83	21.5	47.8	155.8
HCM Lane LOS	F	C	E	F
HCM 95th-tile Q	13.8	2.4	8.6	23.1

Intersection	
Intersection Delay, s/veh	348.5
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	60	246	403	79	439	65	144	309	20	44	471	42
Future Vol, veh/h	60	246	403	79	439	65	144	309	20	44	471	42
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	64	262	429	84	467	69	153	329	21	47	501	45
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	464.3	341.9	226.4	311.6
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	30%	8%	14%	8%
Vol Thru, %	65%	35%	75%	85%
Vol Right, %	4%	57%	11%	8%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	473	709	583	557
LT Vol	144	60	79	44
Through Vol	309	246	439	471
RT Vol	20	403	65	42
Lane Flow Rate	503	754	620	593
Geometry Grp	1	1	1	1
Degree of Util (X)	1.346	1.93	1.636	1.565
Departure Headway (Hd)	17.205	14.539	16.051	15.953
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	216	256	236	237
Service Time	15.205	12.539	14.051	13.953
HCM Lane V/C Ratio	2.329	2.945	2.627	2.502
HCM Control Delay	226.4	464.3	341.9	311.6
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	15.8	34	23.6	22

Intersection	
Intersection Delay, s/veh	398.5
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	33	458	77	259	549	143	33	158	96	186	249	43
Future Vol, veh/h	33	458	77	259	549	143	33	158	96	186	249	43
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	34	477	80	270	572	149	34	165	100	194	259	45
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

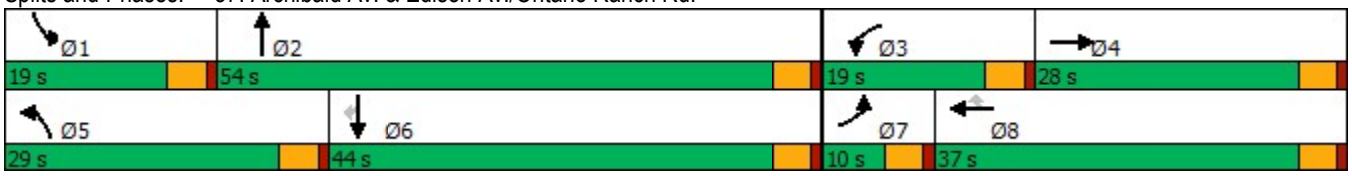
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	263.8	692.3	60.8	177
HCM LOS	F	F	F	F

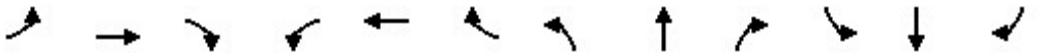
Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	11%	6%	27%	39%
Vol Thru, %	55%	81%	58%	52%
Vol Right, %	33%	14%	15%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	287	568	951	478
LT Vol	33	33	259	186
Through Vol	158	458	549	249
RT Vol	96	77	143	43
Lane Flow Rate	299	592	991	498
Geometry Grp	1	1	1	1
Degree of Util (X)	0.782	1.468	2.467	1.248
Departure Headway (Hd)	16.422	13.672	11.06	13.838
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	224	272	337	269
Service Time	14.422	11.672	9.06	11.838
HCM Lane V/C Ratio	1.335	2.176	2.941	1.851
HCM Control Delay	60.8	263.8	692.3	177
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	5.6	22	64.4	15.8

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	89	270	73	549	794	117	184	1260	397	99	870	256
Future Volume (vph)	89	270	73	549	794	117	184	1260	397	99	870	256
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	44.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	36.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	5.5	23.6	116.1	14.5	32.6	32.6	19.1	47.8	116.1	12.1	40.8	40.8
Actuated g/C Ratio	0.05	0.20	1.00	0.12	0.28	0.28	0.16	0.41	1.00	0.10	0.35	0.35
v/c Ratio	0.68	0.41	0.05	1.59	1.73	0.25	0.76	0.93	0.29	0.65	0.76	0.44
Control Delay	79.1	43.0	0.1	309.7	365.0	6.3	64.9	45.4	0.5	68.5	38.4	13.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	79.1	43.0	0.1	309.7	365.0	6.3	64.9	45.4	0.5	68.5	38.4	13.4
LOS	E	D	A	F	F	A	E	D	A	E	D	B
Approach Delay		43.2			315.4			37.7			35.6	
Approach LOS		D			F			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.73	
Intersection Signal Delay: 119.4	Intersection LOS: F
Intersection Capacity Utilization 106.2%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	89	270	73	549	794	117	184	1260	397	99	870	256
Future Volume (veh/h)	89	270	73	549	794	117	184	1260	397	99	870	256
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	98	297	0	603	873	106	202	1385	0	109	956	270
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	144	748		394	522	437	231	1512		133	1294	536
Arrive On Green	0.05	0.21	0.00	0.13	0.29	0.29	0.14	0.42	0.00	0.08	0.36	0.36
Sat Flow, veh/h	3048	3600	1525	3048	1800	1506	1619	3600	1525	1619	3600	1492
Grp Volume(v), veh/h	98	297	0	603	873	106	202	1385	0	109	956	270
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1506	1619	1800	1525	1619	1800	1492
Q Serve(g_s), s	3.5	8.0	0.0	14.5	32.5	6.0	13.7	40.6	0.0	7.4	26.0	15.9
Cycle Q Clear(g_c), s	3.5	8.0	0.0	14.5	32.5	6.0	13.7	40.6	0.0	7.4	26.0	15.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	144	748		394	522	437	231	1512		133	1294	536
V/C Ratio(X)	0.68	0.40		1.53	1.67	0.24	0.87	0.92		0.82	0.74	0.50
Avail Cap(c_a), veh/h	150	755		394	522	437	354	1591		210	1294	536
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.5	38.3	0.0	48.8	39.8	30.4	47.0	30.6	0.0	50.6	31.3	28.1
Incr Delay (d2), s/veh	11.4	0.3	0.0	250.5	310.7	0.3	14.2	8.5	0.0	13.2	2.3	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	3.4	0.0	19.0	58.5	2.1	6.1	17.6	0.0	3.4	10.8	5.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	64.0	38.7	0.0	299.2	350.5	30.7	61.2	39.1	0.0	63.8	33.6	28.8
LnGrp LOS	E	D		F	F	C	E	D		E	C	C
Approach Vol, veh/h		395	A		1582			1587	A		1335	
Approach Delay, s/veh		44.9			309.5			41.9			35.1	
Approach LOS		D			F			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	51.6	19.0	27.8	20.5	44.8	9.8	37.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	9.4	42.6	16.5	10.0	15.7	28.0	5.5	34.5
Green Ext Time (p_c), s	0.1	4.4	0.0	1.3	0.3	5.2	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	126.7
HCM 6th LOS	F

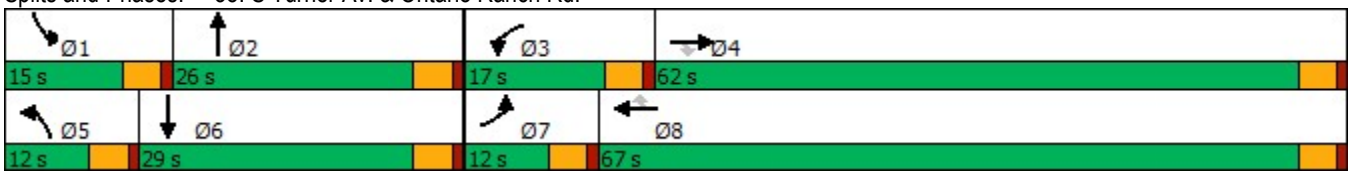
Notes

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	43	728	17	57	1468	26	37	142	59	70
Future Volume (vph)	43	728	17	57	1468	26	37	142	59	70
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	26.0	15.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	21.7%	12.5%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.7	51.1	51.1	9.7	53.0	53.0	7.7	16.5	9.4	20.4
Actuated g/C Ratio	0.08	0.52	0.52	0.10	0.54	0.54	0.08	0.17	0.10	0.21
v/c Ratio	0.34	0.43	0.02	0.35	0.84	0.03	0.29	0.63	0.38	0.33
Control Delay	59.2	17.7	0.1	55.3	26.1	0.1	57.8	51.5	57.1	35.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	59.2	17.7	0.1	55.3	26.1	0.1	57.8	51.5	57.1	35.5
LOS	E	B	A	E	C	A	E	D	E	D
Approach Delay		19.6			26.7			52.6		42.9
Approach LOS		B			C			D		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 98.3	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.84	
Intersection Signal Delay: 27.7	Intersection LOS: C
Intersection Capacity Utilization 72.6%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	43	728	17	57	1468	26	37	142	38	59	70	44
Future Volume (veh/h)	43	728	17	57	1468	26	37	142	38	59	70	44
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	48	809	19	63	1631	29	41	158	42	66	78	49
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	72	2006	895	83	2027	904	66	199	53	86	162	102
Arrive On Green	0.04	0.56	0.56	0.05	0.56	0.56	0.04	0.14	0.14	0.05	0.15	0.15
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	1446	384	1810	1091	685
Grp Volume(v), veh/h	48	809	19	63	1631	29	41	0	200	66	0	127
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1831	1810	0	1777
Q Serve(g_s), s	2.2	10.8	0.4	2.9	30.5	0.7	1.9	0.0	8.9	3.0	0.0	5.5
Cycle Q Clear(g_c), s	2.2	10.8	0.4	2.9	30.5	0.7	1.9	0.0	8.9	3.0	0.0	5.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.21	1.00		0.39
Lane Grp Cap(c), veh/h	72	2006	895	83	2027	904	66	0	252	86	0	263
V/C Ratio(X)	0.66	0.40	0.02	0.76	0.80	0.03	0.62	0.00	0.80	0.77	0.00	0.48
Avail Cap(c_a), veh/h	161	2463	1099	268	2677	1194	161	0	467	225	0	516
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	39.9	10.7	8.4	39.8	14.8	8.3	40.0	0.0	35.2	39.7	0.0	32.9
Incr Delay (d2), s/veh	9.9	0.1	0.0	13.3	1.4	0.0	9.1	0.0	5.7	13.3	0.0	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	3.6	0.1	1.5	10.4	0.2	1.0	0.0	4.1	1.6	0.0	2.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.8	10.8	8.4	53.1	16.2	8.3	49.1	0.0	40.8	53.0	0.0	34.3
LnGrp LOS	D	B	A	D	B	A	D	A	D	D	A	C
Approach Vol, veh/h		876			1723			241			193	
Approach Delay, s/veh		12.9			17.4			42.2			40.7	
Approach LOS		B			B			D			D	

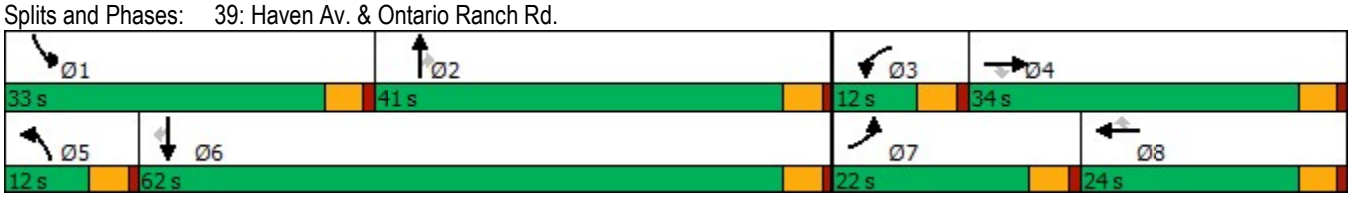
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.5	16.1	8.4	51.3	7.6	17.0	7.9	51.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	10.5	21.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	5.0	10.9	4.9	12.8	3.9	7.5	4.2	32.5
Green Ext Time (p_c), s	0.0	0.7	0.1	6.0	0.0	0.5	0.0	14.9

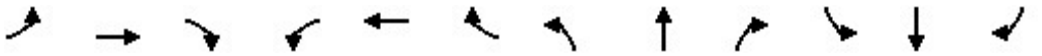
Intersection Summary	
HCM 6th Ctrl Delay	19.6
HCM 6th LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	138	804	19	82	1245	167	40	318	125	215	203	87
Future Volume (vph)	138	804	19	82	1245	167	40	318	125	215	203	87
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	22.0	34.0	34.0	12.0	24.0	24.0	12.0	41.0	41.0	33.0	62.0	62.0
Total Split (%)	18.3%	28.3%	28.3%	10.0%	20.0%	20.0%	10.0%	34.2%	34.2%	27.5%	51.7%	51.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	13.6	29.3	29.3	7.3	20.2	20.2	7.0	23.9	23.9	19.0	41.1	41.1
Actuated g/C Ratio	0.14	0.31	0.31	0.08	0.21	0.21	0.07	0.25	0.25	0.20	0.43	0.43
v/c Ratio	0.64	0.57	0.04	0.39	1.02	0.39	0.36	0.76	0.26	0.72	0.28	0.13
Control Delay	55.3	32.8	0.1	52.7	69.6	9.1	57.2	45.6	3.0	50.6	19.7	1.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.3	32.8	0.1	52.7	69.6	9.1	57.2	45.6	3.0	50.6	19.7	1.3
LOS	E	C	A	D	E	A	E	D	A	D	B	A
Approach Delay		35.4			61.9			35.6			29.7	
Approach LOS		D			E			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 95.3	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.02	
Intersection Signal Delay: 46.1	Intersection LOS: D
Intersection Capacity Utilization 73.6%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	138	804	19	82	1245	167	40	318	125	215	203	87
Future Volume (veh/h)	138	804	19	82	1245	167	40	318	125	215	203	87
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	148	865	9	88	1339	128	43	342	83	231	218	71
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	183	1509	468	163	1544	380	63	419	354	275	654	552
Arrive On Green	0.11	0.31	0.31	0.06	0.25	0.25	0.04	0.23	0.23	0.17	0.36	0.36
Sat Flow, veh/h	1619	4914	1524	2956	6192	1525	1619	1800	1523	1619	1800	1519
Grp Volume(v), veh/h	148	865	9	88	1339	128	43	342	83	231	218	71
Grp Sat Flow(s),veh/h/ln	1619	1638	1524	1478	1548	1525	1619	1800	1523	1619	1800	1519
Q Serve(g_s), s	6.8	11.3	0.3	2.2	15.9	5.3	2.0	13.8	3.4	10.6	6.7	2.4
Cycle Q Clear(g_c), s	6.8	11.3	0.3	2.2	15.9	5.3	2.0	13.8	3.4	10.6	6.7	2.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	183	1509	468	163	1544	380	63	419	354	275	654	552
V/C Ratio(X)	0.81	0.57	0.02	0.54	0.87	0.34	0.68	0.82	0.23	0.84	0.33	0.13
Avail Cap(c_a), veh/h	370	1893	587	290	1577	389	159	858	726	603	1352	1141
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.1	22.3	18.5	35.2	27.5	23.5	36.3	27.8	23.8	30.8	17.7	16.3
Incr Delay (d2), s/veh	8.2	0.3	0.0	2.7	5.3	0.5	12.0	4.0	0.3	6.7	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	3.9	0.1	0.8	5.7	1.7	1.0	5.8	1.1	4.3	2.5	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.3	22.7	18.5	38.0	32.9	24.1	48.3	31.8	24.2	37.5	17.9	16.4
LnGrp LOS	D	C	B	D	C	C	D	C	C	D	B	B
Approach Vol, veh/h		1022			1555			468			520	
Approach Delay, s/veh		25.3			32.4			32.0			26.4	
Approach LOS		C			C			C			C	

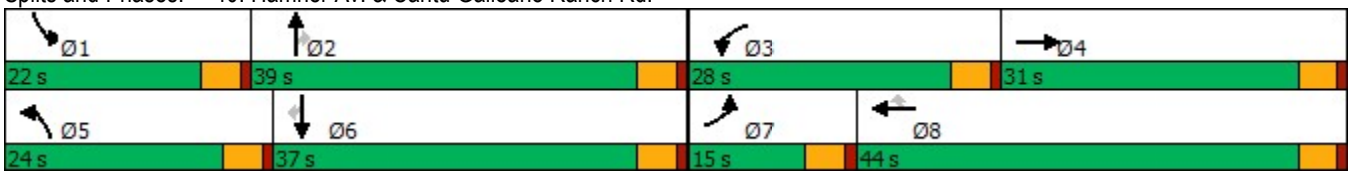
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.5	22.3	8.7	28.0	7.5	32.3	13.2	23.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	36.5	7.5	29.5	7.5	57.5	17.5	19.5
Max Q Clear Time (g_c+I1), s	12.6	15.8	4.2	13.3	4.0	8.7	8.8	17.9
Green Ext Time (p_c), s	0.5	2.0	0.1	4.9	0.0	1.4	0.2	1.2

Intersection Summary	
HCM 6th Ctrl Delay	29.5
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	160	828	265	1368	269	173	652	342	187	205	104
Future Volume (vph)	160	828	265	1368	269	173	652	342	187	205	104
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	28.0	44.0	44.0	24.0	39.0	39.0	22.0	37.0	37.0
Total Split (%)	12.5%	25.8%	23.3%	36.7%	36.7%	20.0%	32.5%	32.5%	18.3%	30.8%	30.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	9.4	36.1	13.1	39.8	39.8	10.5	20.9	20.9	10.9	21.2	21.2
Actuated g/C Ratio	0.09	0.36	0.13	0.40	0.40	0.11	0.21	0.21	0.11	0.21	0.21
v/c Ratio	0.50	0.40	0.59	0.98	0.37	0.49	0.62	0.59	0.51	0.28	0.24
Control Delay	49.6	25.1	46.8	51.2	9.9	47.4	38.3	9.1	47.3	33.5	4.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	49.6	25.1	46.8	51.2	9.9	47.4	38.3	9.1	47.3	33.5	4.3
LOS	D	C	D	D	A	D	D	A	D	C	A
Approach Delay		28.8		44.8			31.1			32.6	
Approach LOS		C		D			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 99.1	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.98	
Intersection Signal Delay: 36.3	Intersection LOS: D
Intersection Capacity Utilization 75.3%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	160	828	79	265	1368	269	173	652	342	187	205	104
Future Volume (veh/h)	160	828	79	265	1368	269	173	652	342	187	205	104
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	167	862	26	276	1425	214	180	679	273	195	214	67
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	243	2539	76	372	1528	682	265	1199	372	280	850	379
Arrive On Green	0.07	0.39	0.39	0.11	0.42	0.42	0.08	0.23	0.23	0.08	0.24	0.24
Sat Flow, veh/h	3510	6569	197	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	167	642	246	276	1425	214	180	679	273	195	214	67
Grp Sat Flow(s),veh/h/ln	1755	1634	1864	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	4.3	8.5	8.5	7.0	34.5	8.1	4.6	10.6	14.4	5.0	4.4	3.0
Cycle Q Clear(g_c), s	4.3	8.5	8.5	7.0	34.5	8.1	4.6	10.6	14.4	5.0	4.4	3.0
Prop In Lane	1.00		0.11	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	243	1895	721	372	1528	682	265	1199	372	280	850	379
V/C Ratio(X)	0.69	0.34	0.34	0.74	0.93	0.31	0.68	0.57	0.73	0.70	0.25	0.18
Avail Cap(c_a), veh/h	402	1895	721	900	1556	694	747	1952	606	670	1280	571
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.7	19.9	19.9	39.7	25.2	17.6	41.3	31.2	32.6	41.1	28.5	27.9
Incr Delay (d2), s/veh	3.4	0.1	0.3	2.9	10.5	0.3	3.0	0.4	2.8	3.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	2.9	3.3	3.0	14.8	2.7	2.0	4.2	5.4	2.1	1.8	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	45.1	20.0	20.1	42.7	35.7	17.8	44.3	31.6	35.4	44.2	28.6	28.2
LnGrp LOS	D	B	C	D	D	B	D	C	D	D	C	C
Approach Vol, veh/h		1055			1915			1132			476	
Approach Delay, s/veh		24.0			34.7			34.5			34.9	
Approach LOS		C			C			C			C	

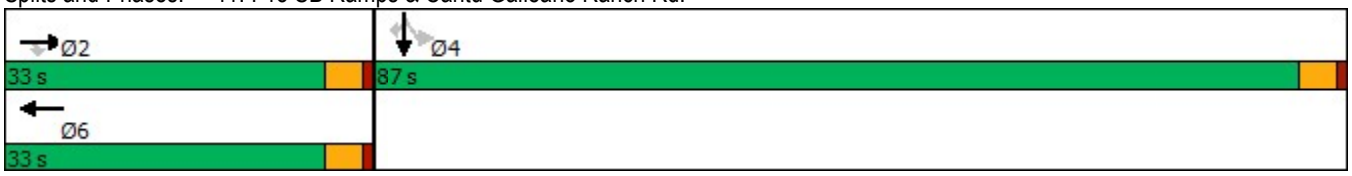
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.8	25.7	14.2	39.9	11.4	26.1	10.8	43.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	34.5	23.5	26.5	19.5	32.5	10.5	39.5
Max Q Clear Time (g_c+I1), s	7.0	16.4	9.0	10.5	6.6	6.4	6.3	36.5
Green Ext Time (p_c), s	0.4	4.8	0.7	4.6	0.4	1.4	0.2	2.3

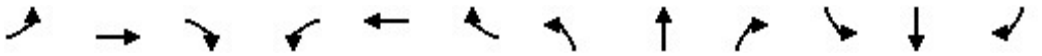
Intersection Summary	
HCM 6th Ctrl Delay	32.2
HCM 6th LOS	C

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	1087	340	788	189	293	0	1658
Future Volume (vph)	1087	340	788	189	293	0	1658
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	33.0	33.0	33.0		87.0	87.0	87.0
Total Split (%)	27.5%	27.5%	27.5%		72.5%	72.5%	72.5%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	28.8	28.8	28.8	114.3	76.5	76.5	76.5
Actuated g/C Ratio	0.25	0.25	0.25	1.00	0.67	0.67	0.67
v/c Ratio	0.92	0.55	0.95	0.07	0.25	0.93	0.90
Control Delay	54.5	7.4	64.2	0.0	7.9	33.7	28.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	54.5	7.4	64.2	0.0	7.9	33.7	28.8
LOS	D	A	E	A	A	C	C
Approach Delay	43.2		51.8			28.1	
Approach LOS	D		D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 114.3	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.95	
Intersection Signal Delay: 38.4	Intersection LOS: D
Intersection Capacity Utilization 97.7%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	1087	340	0	788	189	0	0	0	293	0	1658
Future Volume (veh/h)	0	1087	340	0	788	189	0	0	0	293	0	1658
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	1195	0	0	866	0				215	0	1615
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1549		0	1078					1063	0	1892
Arrive On Green	0.00	0.30	0.00	0.00	0.30	0.00				0.59	0.00	0.59
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	1195	0	0	866	0				215	0	1615
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	16.6	0.0	0.0	17.5	0.0				4.4	0.0	32.8
Cycle Q Clear(g_c), s	0.0	16.6	0.0	0.0	17.5	0.0				4.4	0.0	32.8
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1549		0	1078					1063	0	1892
V/C Ratio(X)	0.00	0.77		0.00	0.80					0.20	0.00	0.85
Avail Cap(c_a), veh/h	0	1873		0	1303					1891	0	3365
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	25.2	0.0	0.0	25.5	0.0				7.6	0.0	13.5
Incr Delay (d2), s/veh	0.0	1.7	0.0	0.0	3.1	0.0				0.1	0.0	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	6.1	0.0	0.0	6.9	0.0				1.4	0.0	9.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	26.9	0.0	0.0	28.7	0.0				7.7	0.0	14.7
LnGrp LOS	A	C		A	C					A	A	B
Approach Vol, veh/h		1195	A		866	A					1830	
Approach Delay, s/veh		26.9			28.7						13.8	
Approach LOS		C			C						B	

Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		28.1		50.9		28.1						
Change Period (Y+Rc), s		4.5		4.5		4.5						
Max Green Setting (Gmax), s		28.5		82.5		28.5						
Max Q Clear Time (g_c+I1), s		18.6		34.8		19.5						
Green Ext Time (p_c), s		5.0		11.6		3.4						

Intersection Summary		
HCM 6th Ctrl Delay		21.2
HCM 6th LOS		C

Notes

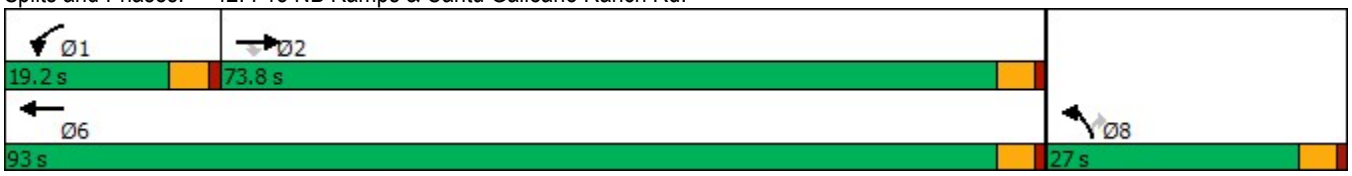
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	463	918	214	483	494	416
Future Volume (vph)	463	918	214	483	494	416
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	73.8	73.8	19.2	93.0	27.0	27.0
Total Split (%)	61.5%	61.5%	16.0%	77.5%	22.5%	22.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	31.0	31.0	10.7	46.6	21.0	21.0
Actuated g/C Ratio	0.40	0.40	0.14	0.60	0.27	0.27
v/c Ratio	0.23	0.88	0.45	0.16	0.67	0.48
Control Delay	14.2	15.4	39.2	6.2	32.4	7.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	14.2	15.4	39.2	6.2	32.4	7.6
LOS	B	B	D	A	C	A
Approach Delay	15.0			16.3	24.6	
Approach LOS	B			B	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 77.6	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.88	
Intersection Signal Delay: 18.2	Intersection LOS: B
Intersection Capacity Utilization 70.4%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	463	918	214	483	494	416
Future Volume (veh/h)	463	918	214	483	494	416
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	472	674	218	493	577	291
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	2518	782	327	3332	831	370
Arrive On Green	0.49	0.49	0.09	0.64	0.23	0.23
Sat Flow, veh/h	5358	1610	3510	5358	3619	1610
Grp Volume(v), veh/h	472	674	218	493	577	291
Grp Sat Flow(s),veh/h/ln	1729	1610	1755	1729	1810	1610
Q Serve(g_s), s	3.6	26.1	4.2	2.6	10.3	12.0
Cycle Q Clear(g_c), s	3.6	26.1	4.2	2.6	10.3	12.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	2518	782	327	3332	831	370
V/C Ratio(X)	0.19	0.86	0.67	0.15	0.69	0.79
Avail Cap(c_a), veh/h	5110	1586	734	6526	1158	515
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.2	16.0	30.8	5.0	24.8	25.5
Incr Delay (d2), s/veh	0.0	3.0	2.4	0.0	1.1	5.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	7.6	1.7	0.5	4.1	4.6
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	10.3	19.0	33.2	5.0	25.9	30.9
LnGrp LOS	B	B	C	A	C	C
Approach Vol, veh/h	1146			711	868	
Approach Delay, s/veh	15.4			13.6	27.6	
Approach LOS	B			B	C	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	11.0	38.6				49.7	20.7
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	14.7	69.3				88.5	22.5
Max Q Clear Time (g_c+I1), s	6.2	28.1				4.6	14.0
Green Ext Time (p_c), s	0.4	6.1				3.1	2.2

Intersection Summary	
HCM 6th Ctrl Delay	18.8
HCM 6th LOS	B

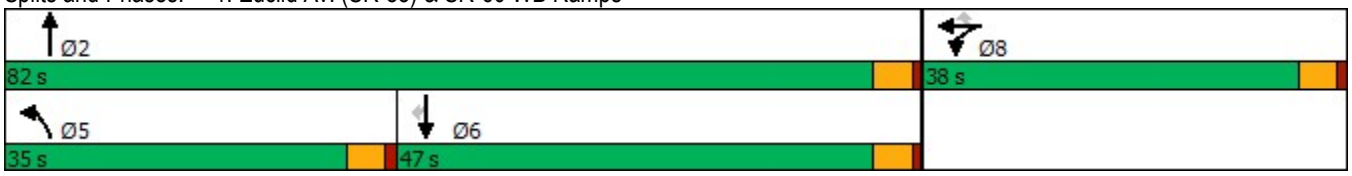
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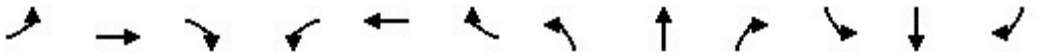
User approved volume balancing among the lanes for turning movement.

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	768	7	383	909	993	941	484
Future Volume (vph)	768	7	383	909	993	941	484
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	38.0	38.0	38.0	35.0	82.0	47.0	47.0
Total Split (%)	31.7%	31.7%	31.7%	29.2%	68.3%	39.2%	39.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	Min	Min	Min
Act Effct Green (s)	31.9	31.9	31.9	30.7	73.6	38.4	38.4
Actuated g/C Ratio	0.28	0.28	0.28	0.27	0.64	0.34	0.34
v/c Ratio	0.87	0.91	0.67	1.92	0.44	0.79	0.57
Control Delay	60.0	65.1	29.3	448.8	11.0	40.1	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Total Delay	60.0	65.1	29.3	448.8	11.6	40.1	5.2
LOS	E	E	C	F	B	D	A
Approach Delay		52.7			220.6	28.2	
Approach LOS		D			F	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 114.6	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.92	
Intersection Signal Delay: 116.1	Intersection LOS: F
Intersection Capacity Utilization 116.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	768	7	383	909	993	0	0	941	484
Future Volume (veh/h)	0	0	0	768	7	383	909	993	0	0	941	484
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				862	0	164	928	1013	0	0	960	304
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				974	0	433	512	2337	0	0	1165	520
Arrive On Green				0.27	0.00	0.27	0.28	0.65	0.00	0.00	0.32	0.32
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				862	0	164	928	1013	0	0	960	304
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				24.6	0.0	8.9	30.5	14.8	0.0	0.0	26.4	17.0
Cycle Q Clear(g_c), s				24.6	0.0	8.9	30.5	14.8	0.0	0.0	26.4	17.0
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				974	0	433	512	2337	0	0	1165	520
V/C Ratio(X)				0.89	0.00	0.38	1.81	0.43	0.00	0.00	0.82	0.58
Avail Cap(c_a), veh/h				1125	0	500	512	2596	0	0	1423	635
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				37.8	0.0	32.1	38.6	9.3	0.0	0.0	33.7	30.5
Incr Delay (d2), s/veh				7.9	0.0	0.5	373.3	0.1	0.0	0.0	3.4	1.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				11.4	0.0	3.4	66.0	5.1	0.0	0.0	11.6	6.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				45.7	0.0	32.6	411.9	9.4	0.0	0.0	37.1	31.5
LnGrp LOS				D	A	C	F	A	A	A	D	C
Approach Vol, veh/h					1026			1941			1264	
Approach Delay, s/veh					43.6			201.9			35.7	
Approach LOS					D			F			D	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	74.3		35.0	39.3		33.5						
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5						
Max Green Setting (Gmax), s	77.5		30.5	42.5		33.5						
Max Q Clear Time (g_c+I1), s	16.8		32.5	28.4		26.6						
Green Ext Time (p_c), s	8.7		0.0	6.3		2.4						

Intersection Summary		
HCM 6th Ctrl Delay	113.8	
HCM 6th LOS	F	

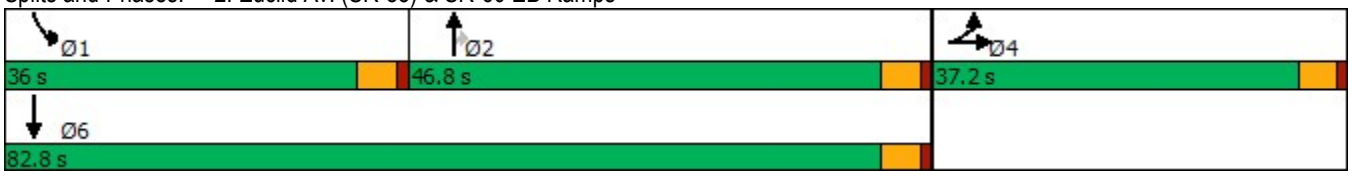
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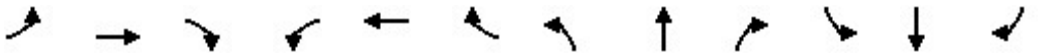
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	305	6	1596	680	372	1337
Future Volume (vph)	305	6	1596	680	372	1337
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	Min	Min	None	Min
Act Effct Green (s)	32.7	32.7	42.3	42.3	28.4	75.3
Actuated g/C Ratio	0.28	0.28	0.36	0.36	0.24	0.64
v/c Ratio	0.60	1.25	1.27	0.86	0.89	0.60
Control Delay	43.2	161.7	162.1	26.0	65.5	13.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	1.9
Total Delay	43.2	161.7	162.1	26.0	65.5	15.3
LOS	D	F	F	C	E	B
Approach Delay		123.3	121.5			26.3
Approach LOS		F	F			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 117	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.27	
Intersection Signal Delay: 88.1	Intersection LOS: F
Intersection Capacity Utilization 116.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	305	6	537	0	0	0	0	1596	680	372	1337	0
Future Volume (veh/h)	305	6	537	0	0	0	0	1596	680	372	1337	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	318	6	485				0	1662	581	388	1393	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	513	6	452				0	1325	575	420	2304	0
Arrive On Green	0.28	0.28	0.28				0.00	0.37	0.37	0.23	0.64	0.00
Sat Flow, veh/h	1810	20	1593				0	3705	1568	1810	3705	0
Grp Volume(v), veh/h	318	0	491				0	1662	581	388	1393	0
Grp Sat Flow(s),veh/h/ln	1810	0	1613				0	1805	1568	1810	1805	0
Q Serve(g_s), s	17.6	0.0	32.7				0.0	42.3	42.3	24.2	26.2	0.0
Cycle Q Clear(g_c), s	17.6	0.0	32.7				0.0	42.3	42.3	24.2	26.2	0.0
Prop In Lane	1.00		0.99				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	513	0	458				0	1325	575	420	2304	0
V/C Ratio(X)	0.62	0.00	1.07				0.00	1.25	1.01	0.92	0.60	0.00
Avail Cap(c_a), veh/h	513	0	458				0	1325	575	495	2453	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	35.9	0.0	41.3				0.0	36.5	36.5	43.3	12.3	0.0
Incr Delay (d2), s/veh	2.3	0.0	62.9				0.0	120.8	40.0	21.2	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.8	0.0	20.4				0.0	39.9	21.8	13.0	9.4	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	38.1	0.0	104.2				0.0	157.3	76.4	64.5	12.7	0.0
LnGrp LOS	D	A	F				A	F	F	E	B	A
Approach Vol, veh/h		809						2243			1781	
Approach Delay, s/veh		78.2						136.4			24.0	
Approach LOS		E						F			C	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	31.3	46.8		37.2		78.1
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	26.2	44.3		34.7		28.2
Green Ext Time (p_c), s	0.6	0.0		0.0		14.3

Intersection Summary	
HCM 6th Ctrl Delay	85.2
HCM 6th LOS	F

Notes

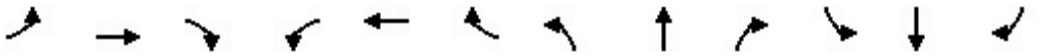
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	127	521	82	241	147	1879	89	278	1425	130
Future Volume (vph)	127	521	82	241	147	1879	89	278	1425	130
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	20.0	33.7	17.3	31.0	23.0	51.7	51.7	17.3	46.0	46.0
Total Split (%)	16.7%	28.1%	14.4%	25.8%	19.2%	43.1%	43.1%	14.4%	38.3%	38.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	13.4	28.1	10.6	22.6	15.2	47.5	47.5	12.9	45.2	45.2
Actuated g/C Ratio	0.12	0.25	0.09	0.20	0.13	0.41	0.41	0.11	0.39	0.39
v/c Ratio	0.71	0.89	0.58	0.58	0.72	0.97	0.14	0.89	0.77	0.20
Control Delay	70.6	53.8	66.8	33.2	67.9	48.3	5.1	79.1	35.6	5.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.6	53.8	66.8	33.2	67.9	48.3	5.1	79.1	35.6	5.4
LOS	E	D	E	C	E	D	A	E	D	A
Approach Delay		56.4		39.0		47.8			40.1	
Approach LOS		E		D		D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 114.5	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 45.7	Intersection LOS: D
Intersection Capacity Utilization 89.1%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	127	521	181	82	241	155	147	1879	89	278	1425	130
Future Volume (veh/h)	127	521	181	82	241	155	147	1879	89	278	1425	130
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	134	548	160	86	254	122	155	1978	85	293	1500	99
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	160	617	180	107	461	215	182	2072	643	339	2083	646
Arrive On Green	0.10	0.24	0.24	0.07	0.20	0.20	0.11	0.42	0.42	0.11	0.42	0.42
Sat Flow, veh/h	1619	2613	760	1619	2263	1054	1619	4914	1524	2956	4914	1524
Grp Volume(v), veh/h	134	358	350	86	190	186	155	1978	85	293	1500	99
Grp Sat Flow(s),veh/h/ln	1619	1710	1663	1619	1710	1607	1619	1638	1524	1478	1638	1524
Q Serve(g_s), s	9.1	22.6	22.7	5.8	11.1	11.6	10.5	43.5	3.8	10.9	28.2	4.5
Cycle Q Clear(g_c), s	9.1	22.6	22.7	5.8	11.1	11.6	10.5	43.5	3.8	10.9	28.2	4.5
Prop In Lane	1.00		0.46	1.00		0.66	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	160	404	393	107	348	327	182	2072	643	339	2083	646
V/C Ratio(X)	0.84	0.89	0.89	0.81	0.55	0.57	0.85	0.95	0.13	0.86	0.72	0.15
Avail Cap(c_a), veh/h	225	448	435	186	406	382	268	2079	645	339	2083	646
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.4	41.1	41.2	51.4	39.8	40.0	48.6	31.2	19.8	48.5	26.7	19.8
Incr Delay (d2), s/veh	17.3	17.6	18.7	13.1	1.3	1.6	15.4	11.0	0.1	20.0	1.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	11.1	11.0	2.7	4.6	4.6	4.9	18.2	1.3	4.9	10.7	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	66.7	58.8	59.9	64.5	41.1	41.6	64.0	42.2	19.9	68.5	27.9	19.9
LnGrp LOS	E	E	E	E	D	D	E	D	B	E	C	B
Approach Vol, veh/h		842			462			2218			1892	
Approach Delay, s/veh		60.5			45.7			42.9			33.8	
Approach LOS		E			D			D			C	

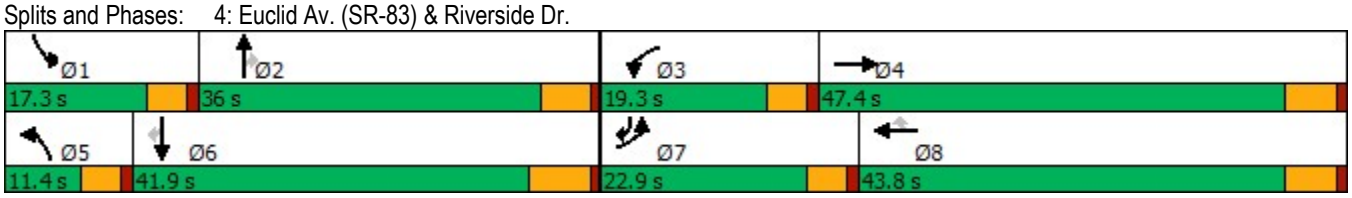
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.3	51.5	11.9	30.9	17.1	51.8	15.5	27.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	12.8	47.2	12.8	29.2	18.5	41.5	15.5	26.5
Max Q Clear Time (g_c+I1), s	12.9	45.5	7.8	24.7	12.5	30.2	11.1	13.6
Green Ext Time (p_c), s	0.0	1.6	0.1	1.6	0.2	7.3	0.1	1.6

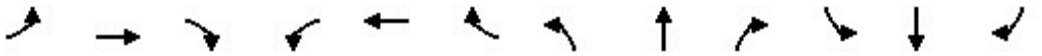
Intersection Summary	
HCM 6th Ctrl Delay	42.7
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	144	515	168	408	75	136	1810	185	114	1295	169
Future Volume (vph)	144	515	168	408	75	136	1810	185	114	1295	169
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	22.9	47.4	19.3	43.8	43.8	11.4	36.0	36.0	17.3	41.9	22.9
Total Split (%)	19.1%	39.5%	16.1%	36.5%	36.5%	9.5%	30.0%	30.0%	14.4%	34.9%	19.1%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	14.4	41.6	14.1	41.3	41.3	6.8	31.9	31.9	11.3	35.4	56.3
Actuated g/C Ratio	0.12	0.35	0.12	0.35	0.35	0.06	0.27	0.27	0.09	0.30	0.47
v/c Ratio	0.75	0.98	0.89	0.35	0.12	1.51	2.00	0.36	0.75	1.29	0.21
Control Delay	73.0	70.5	94.7	30.8	0.4	311.6	479.0	11.3	81.4	174.2	3.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	73.0	70.5	94.7	30.8	0.4	311.6	479.0	11.3	81.4	174.2	3.4
LOS	E	E	F	C	A	F	F	B	F	F	A
Approach Delay		71.0		43.8			427.7			149.1	
Approach LOS		E		D			F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.00	
Intersection Signal Delay: 240.6	Intersection LOS: F
Intersection Capacity Utilization 121.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	144	515	86	168	408	75	136	1810	185	114	1295	169
Future Volume (veh/h)	144	515	86	168	408	75	136	1810	185	114	1295	169
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	145	520	56	170	412	37	137	1828	124	115	1308	72
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	170	545	59	194	1218	535	93	930	415	138	1025	617
Arrive On Green	0.10	0.34	0.34	0.12	0.36	0.36	0.06	0.27	0.27	0.09	0.30	0.30
Sat Flow, veh/h	1619	1597	172	1619	3420	1502	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	145	0	576	170	412	37	137	1828	124	115	1308	72
Grp Sat Flow(s),veh/h/ln	1619	0	1769	1619	1710	1502	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	10.4	0.0	37.6	12.2	10.4	1.9	6.8	32.1	7.6	8.3	35.4	3.5
Cycle Q Clear(g_c), s	10.4	0.0	37.6	12.2	10.4	1.9	6.8	32.1	7.6	8.3	35.4	3.5
Prop In Lane	1.00		0.10	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	170	0	603	194	1218	535	93	930	415	138	1025	617
V/C Ratio(X)	0.85	0.00	0.95	0.88	0.34	0.07	1.47	1.96	0.30	0.83	1.28	0.12
Avail Cap(c_a), veh/h	251	0	623	201	1218	535	93	930	415	174	1025	617
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.0	0.0	38.0	51.1	27.8	25.1	55.7	43.0	34.1	53.2	41.4	22.0
Incr Delay (d2), s/veh	11.9	0.0	24.9	30.3	0.2	0.1	260.7	438.0	0.4	19.6	132.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	0.0	19.6	6.4	4.1	0.7	9.4	69.3	2.8	4.1	33.2	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	63.9	0.0	63.0	81.5	28.0	25.2	316.3	481.0	34.5	72.8	173.4	22.1
LnGrp LOS	E	A	E	F	C	C	F	F	C	E	F	C
Approach Vol, veh/h		721			619			2089			1495	
Approach Delay, s/veh		63.2			42.5			443.7			158.4	
Approach LOS		E			D			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.7	38.6	18.8	46.1	11.4	41.9	17.0	47.9
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	12.7	* 31	14.7	41.6	6.8	35.4	18.3	38.0
Max Q Clear Time (g_c+I1), s	10.3	34.1	14.2	39.6	8.8	37.4	12.4	12.4
Green Ext Time (p_c), s	0.0	0.0	0.0	0.7	0.0	0.0	0.1	2.6

Intersection Summary	
HCM 6th Ctrl Delay	250.9
HCM 6th LOS	F

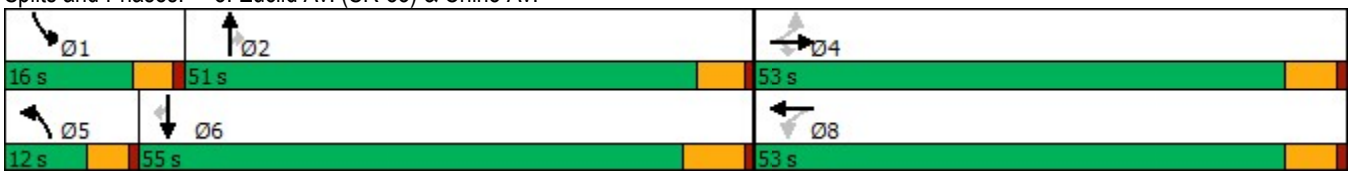
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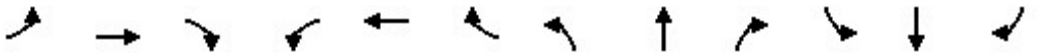
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	82	455	56	94	131	61	2013	221	96	1375	71
Future Volume (vph)	82	455	56	94	131	61	2013	221	96	1375	71
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	53.0	53.0	53.0	53.0	53.0	12.0	51.0	51.0	16.0	55.0	55.0
Total Split (%)	44.2%	44.2%	44.2%	44.2%	44.2%	10.0%	42.5%	42.5%	13.3%	45.8%	45.8%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	44.8	44.8	44.8		44.8	7.0	46.2	46.2	10.1	50.3	50.3
Actuated g/C Ratio	0.38	0.38	0.38		0.38	0.06	0.40	0.40	0.09	0.43	0.43
v/c Ratio	0.25	0.68	0.09		1.01	0.66	1.53	0.35	0.71	0.96	0.10
Control Delay	27.0	35.9	3.7		89.1	86.1	271.6	19.8	79.9	50.2	6.6
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	27.0	35.9	3.7		89.1	86.1	271.6	19.8	79.9	50.2	6.6
LOS	C	D	A		F	F	F	B	E	D	A
Approach Delay		31.6			89.1		242.4			50.0	
Approach LOS		C			F		F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.7	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.53	
Intersection Signal Delay: 143.6	Intersection LOS: F
Intersection Capacity Utilization 125.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	82	455	56	94	131	70	61	2013	221	96	1375	71
Future Volume (veh/h)	82	455	56	94	131	70	61	2013	221	96	1375	71
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	85	469	38	97	135	66	63	2075	166	99	1418	41
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	283	716	606	118	155	66	78	1319	588	120	1408	628
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.05	0.39	0.39	0.07	0.41	0.41
Sat Flow, veh/h	1074	1800	1525	196	390	167	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	85	469	38	298	0	0	63	2075	166	99	1418	41
Grp Sat Flow(s),veh/h/ln	1074	1800	1525	753	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	25.2	1.8	21.9	0.0	0.0	4.6	45.8	8.9	7.2	48.9	1.9
Cycle Q Clear(g_c), s	12.9	25.2	1.8	47.1	0.0	0.0	4.6	45.8	8.9	7.2	48.9	1.9
Prop In Lane	1.00		1.00	0.33		0.22	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	283	716	606	339	0	0	78	1319	588	120	1408	628
V/C Ratio(X)	0.30	0.66	0.06	0.88	0.00	0.00	0.80	1.57	0.28	0.82	1.01	0.07
Avail Cap(c_a), veh/h	283	716	606	339	0	0	101	1319	588	155	1408	628
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.4	29.1	22.1	41.4	0.0	0.0	55.9	36.5	25.1	54.2	34.9	21.1
Incr Delay (d2), s/veh	0.6	2.2	0.0	22.0	0.0	0.0	22.9	261.5	1.2	18.6	25.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	10.8	0.6	10.5	0.0	0.0	2.3	65.4	3.2	3.4	23.5	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.0	31.3	22.1	63.4	0.0	0.0	78.9	297.9	26.3	72.8	60.7	21.3
LnGrp LOS	C	C	C	E	A	A	E	F	C	E	F	C
Approach Vol, veh/h		592			298			2304			1558	
Approach Delay, s/veh		30.0			63.4			272.4			60.4	
Approach LOS		C			E			F			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.4	52.3		53.0	10.4	55.4		53.0				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 46		47.2	7.4	48.5		47.2				
Max Q Clear Time (g_c+I1), s	9.2	47.8		27.2	6.6	50.9		49.1				
Green Ext Time (p_c), s	0.0	0.0		3.0	0.0	0.0		0.0				

Intersection Summary			
HCM 6th Ctrl Delay		159.6	
HCM 6th LOS		F	

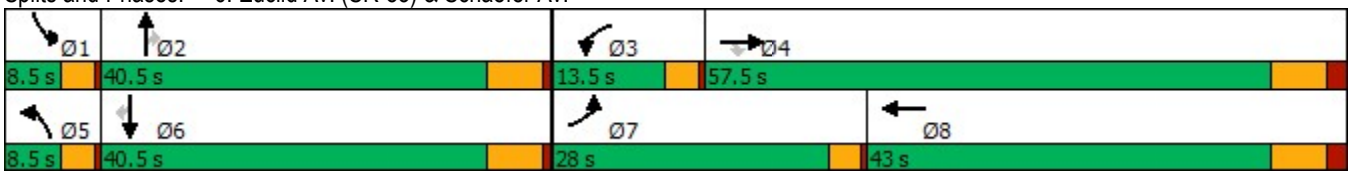
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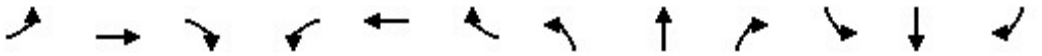
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	367	304	157	44	107	121	1814	50	57	1299	151
Future Volume (vph)	367	304	157	44	107	121	1814	50	57	1299	151
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	28.0	57.5	57.5	13.5	43.0	8.5	40.5	40.5	8.5	40.5	40.5
Total Split (%)	23.3%	47.9%	47.9%	11.3%	35.8%	7.1%	33.8%	33.8%	7.1%	33.8%	33.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	24.7	36.1	36.1	10.1	15.6	5.0	34.8	34.8	5.0	34.8	34.8
Actuated g/C Ratio	0.25	0.36	0.36	0.10	0.16	0.05	0.35	0.35	0.05	0.35	0.35
v/c Ratio	0.95	0.48	0.25	0.28	0.56	1.54	1.58	0.08	0.73	1.13	0.26
Control Delay	74.1	28.8	4.6	50.0	41.1	332.4	290.9	0.3	94.9	101.5	8.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	74.1	28.8	4.6	50.0	41.1	332.4	290.9	0.3	94.9	101.5	8.3
LOS	E	C	A	D	D	F	F	A	F	F	A
Approach Delay		44.3			43.1		286.0			91.9	
Approach LOS		D			D		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 100.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.58	
Intersection Signal Delay: 166.4	Intersection LOS: F
Intersection Capacity Utilization 107.1%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	367	304	157	44	107	48	121	1814	50	57	1299	151
Future Volume (veh/h)	367	304	157	44	107	48	121	1814	50	57	1299	151
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	378	313	97	45	110	43	125	1870	45	59	1339	111
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	405	530	449	119	145	57	86	1281	571	73	1253	547
Arrive On Green	0.25	0.29	0.29	0.07	0.12	0.12	0.05	0.37	0.37	0.05	0.37	0.37
Sat Flow, veh/h	1619	1800	1525	1619	1231	481	1619	3420	1525	1619	3420	1491
Grp Volume(v), veh/h	378	313	97	45	0	153	125	1870	45	59	1339	111
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1712	1619	1710	1525	1619	1710	1491
Q Serve(g_s), s	21.5	14.0	4.5	2.5	0.0	8.2	5.0	35.3	1.8	3.4	34.5	4.8
Cycle Q Clear(g_c), s	21.5	14.0	4.5	2.5	0.0	8.2	5.0	35.3	1.8	3.4	34.5	4.8
Prop In Lane	1.00		1.00	1.00		0.28	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	405	530	449	119	0	201	86	1281	571	73	1253	547
V/C Ratio(X)	0.93	0.59	0.22	0.38	0.00	0.76	1.45	1.46	0.08	0.81	1.07	0.20
Avail Cap(c_a), veh/h	421	966	818	172	0	655	86	1281	571	86	1253	547
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.5	28.4	25.0	41.6	0.0	40.2	44.6	29.4	19.0	44.5	29.8	20.4
Incr Delay (d2), s/veh	26.5	0.8	0.2	0.7	0.0	4.4	257.4	211.5	0.1	32.0	45.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.9	5.8	1.6	1.0	0.0	3.5	8.0	50.2	0.6	1.9	20.4	1.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.0	29.1	25.2	42.3	0.0	44.6	302.0	240.9	19.0	76.6	75.7	20.6
LnGrp LOS	E	C	C	D	A	D	F	F	B	E	F	C
Approach Vol, veh/h		788			198			2040			1509	
Approach Delay, s/veh		44.0			44.1			239.7			71.7	
Approach LOS		D			D			F			E	

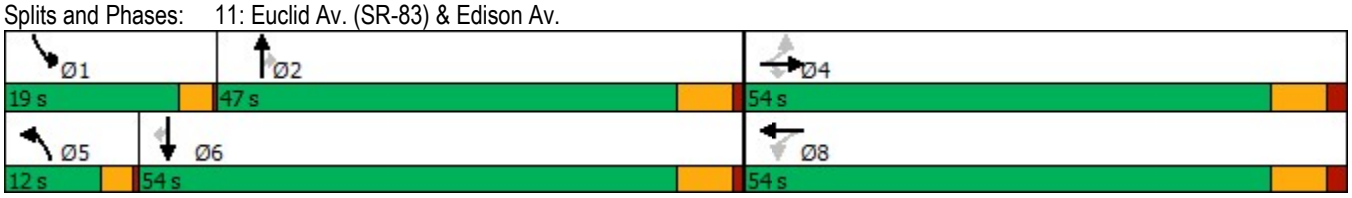
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.7	41.3	10.4	34.7	8.5	40.5	27.1	18.1
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	34.5	10.0	50.5	5.0	34.5	24.5	36.0
Max Q Clear Time (g_c+I1), s	5.4	37.3	4.5	16.0	7.0	36.5	23.5	10.2
Green Ext Time (p_c), s	0.0	0.0	0.0	1.6	0.0	0.0	0.1	0.6

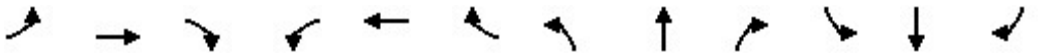
Intersection Summary	
HCM 6th Ctrl Delay	141.3
HCM 6th LOS	F

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	254	573	215	42	479	207	1536	52	138	1104	174
Future Volume (vph)	254	573	215	42	479	207	1536	52	138	1104	174
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	47.0	47.0	47.0	47.0	47.0	8.5	41.0	41.0	13.4	45.9	45.9
Actuated g/C Ratio	0.40	0.40	0.40	0.40	0.40	0.07	0.35	0.35	0.11	0.39	0.39
v/c Ratio	4.54	0.82	0.30	0.34	1.06	0.94	1.32	0.09	0.77	0.85	0.27
Control Delay	1653.5	42.8	5.9	35.0	86.3	100.7	182.1	0.7	77.7	39.9	8.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	1653.5	42.8	5.9	35.0	86.3	100.7	182.1	0.7	77.7	39.9	8.0
LOS	F	D	A	C	F	F	F	A	E	D	A
Approach Delay		427.6			83.5		167.4			39.7	
Approach LOS		F			F		F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 117.9	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 4.54	
Intersection Signal Delay: 172.6	Intersection LOS: F
Intersection Capacity Utilization 131.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	254	573	215	42	479	243	207	1536	52	138	1104	174
Future Volume (veh/h)	254	573	215	42	479	243	207	1536	52	138	1104	174
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	259	585	168	43	489	237	211	1567	43	141	1127	127
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	62	727	616	137	460	223	229	1205	525	165	1304	574
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.07	0.35	0.35	0.10	0.38	0.38
Sat Flow, veh/h	662	1800	1525	645	1140	552	3141	3420	1489	1619	3420	1506
Grp Volume(v), veh/h	259	585	168	43	0	726	211	1567	43	141	1127	127
Grp Sat Flow(s),veh/h/ln	662	1800	1525	645	0	1692	1570	1710	1489	1619	1710	1506
Q Serve(g_s), s	0.0	33.4	8.6	7.3	0.0	47.0	7.8	41.0	2.2	10.0	35.4	6.6
Cycle Q Clear(g_c), s	47.0	33.4	8.6	40.7	0.0	47.0	7.8	41.0	2.2	10.0	35.4	6.6
Prop In Lane	1.00		1.00	1.00		0.33	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	62	727	616	137	0	683	229	1205	525	165	1304	574
V/C Ratio(X)	4.19	0.80	0.27	0.31	0.00	1.06	0.92	1.30	0.08	0.85	0.86	0.22
Avail Cap(c_a), veh/h	62	727	616	137	0	683	229	1205	525	216	1410	621
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	58.2	30.6	23.2	48.6	0.0	34.7	53.6	37.7	25.1	51.4	33.2	24.3
Incr Delay (d2), s/veh	1471.4	6.6	0.2	1.3	0.0	52.3	37.6	141.5	0.1	18.0	5.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	27.1	14.9	3.0	1.2	0.0	27.9	4.1	39.4	0.8	4.7	14.4	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	1529.6	37.2	23.5	49.9	0.0	87.0	91.2	179.2	25.2	69.4	38.7	24.5
LnGrp LOS	F	D	C	D	A	F	F	F	C	E	D	C
Approach Vol, veh/h		1012			769			1821			1395	
Approach Delay, s/veh		416.9			84.9			165.4			40.5	
Approach LOS		F			F			F			D	

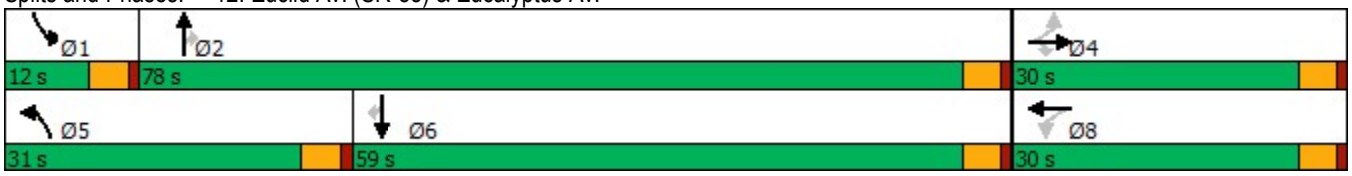
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.4	47.0		54.0	12.0	50.4		54.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	12.0	43.0		49.0	9.8	37.4		49.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	5.3		0.0				

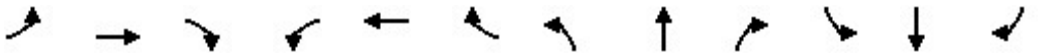
Intersection Summary		
HCM 6th Ctrl Delay		169.1
HCM 6th LOS		F

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	38	151	212	6	48	119	1628	21	137	1528	55
Future Volume (vph)	38	151	212	6	48	119	1628	21	137	1528	55
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	30.0	30.0	30.0	30.0	30.0	31.0	78.0	78.0	12.0	59.0	59.0
Total Split (%)	25.0%	25.0%	25.0%	25.0%	25.0%	25.8%	65.0%	65.0%	10.0%	49.2%	49.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	18.9	18.9	18.9	18.9	18.9	13.4	63.7	63.7	7.6	57.9	57.9
Actuated g/C Ratio	0.18	0.18	0.18	0.18	0.18	0.13	0.61	0.61	0.07	0.56	0.56
v/c Ratio	0.62	0.48	0.48	0.04	0.85	0.60	0.81	0.02	1.21	0.84	0.07
Control Delay	79.9	44.2	9.0	37.5	45.5	56.6	20.0	0.0	194.6	26.0	0.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	79.9	44.2	9.0	37.5	45.5	56.6	20.0	0.0	194.6	26.0	0.9
LOS	E	D	A	D	D	E	C	A	F	C	A
Approach Delay		29.0			45.4		22.2			38.7	
Approach LOS		C			D		C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 104	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.21	
Intersection Signal Delay: 31.4	Intersection LOS: C
Intersection Capacity Utilization 95.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	151	212	6	48	271	119	1628	21	137	1528	55
Future Volume (veh/h)	38	151	212	6	48	271	119	1628	21	137	1528	55
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	40	157	126	6	50	279	124	1696	20	143	1592	46
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	98	426	361	230	56	313	152	1945	868	113	1863	830
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.09	0.57	0.57	0.07	0.54	0.54
Sat Flow, veh/h	955	1800	1525	996	237	1324	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	40	157	126	6	0	329	124	1696	20	143	1592	46
Grp Sat Flow(s),veh/h/ln	955	1800	1525	996	0	1562	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	3.5	7.9	7.4	0.5	0.0	22.0	8.1	45.7	0.6	7.5	42.8	1.5
Cycle Q Clear(g_c), s	25.5	7.9	7.4	8.4	0.0	22.0	8.1	45.7	0.6	7.5	42.8	1.5
Prop In Lane	1.00		1.00	1.00		0.85	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	98	426	361	230	0	369	152	1945	868	113	1863	830
V/C Ratio(X)	0.41	0.37	0.35	0.03	0.00	0.89	0.82	0.87	0.02	1.27	0.85	0.06
Avail Cap(c_a), veh/h	98	426	361	230	0	369	398	2331	1040	113	1863	830
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.5	34.4	34.3	38.0	0.0	39.8	48.0	19.9	10.2	50.2	20.9	11.5
Incr Delay (d2), s/veh	2.7	0.5	0.6	0.0	0.0	22.6	10.3	3.4	0.0	174.0	4.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	3.4	2.7	0.1	0.0	10.4	3.5	15.9	0.2	8.3	15.4	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	55.3	35.0	34.8	38.0	0.0	62.4	58.2	23.3	10.2	224.1	25.0	11.6
LnGrp LOS	E	C	C	D	A	E	E	C	B	F	C	B
Approach Vol, veh/h		323			335			1840			1781	
Approach Delay, s/veh		37.4			62.0			25.5			40.7	
Approach LOS		D			E			C			D	

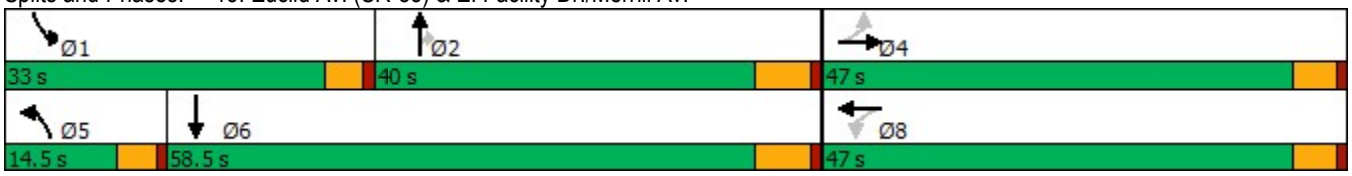
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.0	65.8		30.0	14.6	63.2		30.0				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	7.5	73.5		25.5	26.5	54.5		25.5				
Max Q Clear Time (g_c+I1), s	9.5	47.7		27.5	10.1	44.8		24.0				
Green Ext Time (p_c), s	0.0	13.6		0.0	0.2	6.6		0.3				

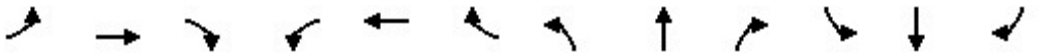
Intersection Summary			
HCM 6th Ctrl Delay		35.6	
HCM 6th LOS		D	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	3	20	602	0	1	1139	348	380	1340
Future Volume (vph)	3	20	602	0	1	1139	348	380	1340
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	47.0	47.0	47.0	47.0	14.5	40.0	40.0	33.0	58.5
Total Split (%)	39.2%	39.2%	39.2%	39.2%	12.1%	33.3%	33.3%	27.5%	48.8%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		42.0		42.0	10.0	34.0	34.0	28.5	64.1
Actuated g/C Ratio		0.35		0.35	0.08	0.28	0.28	0.24	0.53
v/c Ratio		0.06		2.20	0.01	1.21	0.72	1.02	0.76
Control Delay		20.8		566.6	51.0	142.8	35.9	97.5	26.4
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		20.8		566.6	51.0	142.8	35.9	97.5	26.4
LOS		C		F	D	F	D	F	C
Approach Delay		20.8		566.6		117.7			42.0
Approach LOS		C		F		F			D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.20	
Intersection Signal Delay: 207.2	Intersection LOS: F
Intersection Capacity Utilization 149.0%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	3	20	9	602	0	579	1	1139	348	380	1340	10
Future Volume (veh/h)	3	20	9	602	0	579	1	1139	348	380	1340	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	3	21	5	621	0	568	1	1174	325	392	1381	8
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	71	450	101	307	0	239	4	969	423	385	1806	10
Arrive On Green	0.35	0.35	0.35	0.35	0.00	0.35	0.00	0.28	0.28	0.24	0.52	0.52
Sat Flow, veh/h	107	1284	290	746	0	683	1619	3420	1493	1619	3486	20
Grp Volume(v), veh/h	29	0	0	1189	0	0	1	1174	325	392	677	712
Grp Sat Flow(s),veh/h/ln	1681	0	0	1429	0	0	1619	1710	1493	1619	1710	1796
Q Serve(g_s), s	0.0	0.0	0.0	40.7	0.0	0.0	0.1	34.0	23.9	28.5	37.9	37.9
Cycle Q Clear(g_c), s	1.3	0.0	0.0	42.0	0.0	0.0	0.1	34.0	23.9	28.5	37.9	37.9
Prop In Lane	0.10		0.17	0.52		0.48	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	622	0	0	546	0	0	4	969	423	385	886	931
V/C Ratio(X)	0.05	0.00	0.00	2.18	0.00	0.00	0.23	1.21	0.77	1.02	0.76	0.76
Avail Cap(c_a), veh/h	622	0	0	546	0	0	135	969	423	385	886	931
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.8	0.0	0.0	40.6	0.0	0.0	59.7	43.0	39.4	45.8	23.1	23.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	536.4	0.0	0.0	9.3	104.9	8.3	50.9	4.0	3.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	0.0	97.1	0.0	0.0	0.0	27.5	9.2	16.2	14.5	15.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.8	0.0	0.0	577.1	0.0	0.0	69.0	147.9	47.7	96.7	27.1	26.9
LnGrp LOS	C	A	A	F	A	A	E	F	D	F	C	C
Approach Vol, veh/h		29			1189			1500			1781	
Approach Delay, s/veh		25.8			577.1			126.1			42.3	
Approach LOS		C			F			F			D	

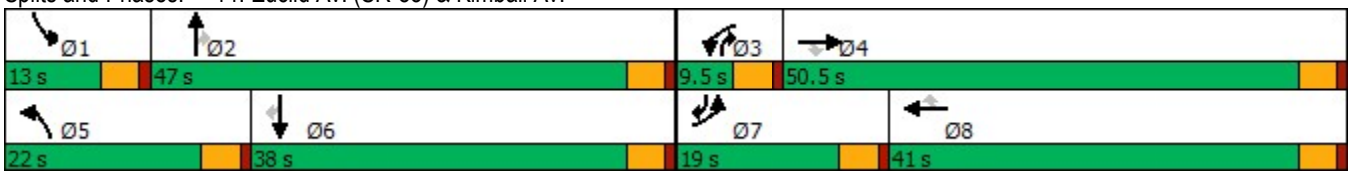
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	33.0	40.0		47.0	4.8	68.2		47.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	28.5	34.0		42.0	10.0	52.5		42.0				
Max Q Clear Time (g_c+I1), s	30.5	36.0		3.3	2.1	39.9		44.0				
Green Ext Time (p_c), s	0.0	0.0		0.1	0.0	6.5		0.0				

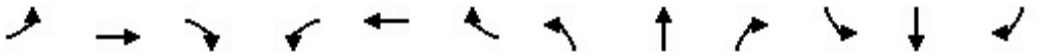
Intersection Summary		
HCM 6th Ctrl Delay		211.5
HCM 6th LOS		F

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	365	946	74	87	455	207	89	857	195	544	1119	260
Future Volume (vph)	365	946	74	87	455	207	89	857	195	544	1119	260
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	19.0	50.5	50.5	9.5	41.0	41.0	22.0	47.0	9.5	13.0	38.0	19.0
Total Split (%)	15.8%	42.1%	42.1%	7.9%	34.2%	34.2%	18.3%	39.2%	7.9%	10.8%	31.7%	15.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	14.8	35.7	35.7	5.1	26.0	26.0	11.3	34.3	44.0	8.7	34.7	49.5
Actuated g/C Ratio	0.14	0.35	0.35	0.05	0.25	0.25	0.11	0.34	0.43	0.09	0.34	0.48
v/c Ratio	0.87	0.81	0.12	1.11	0.53	0.40	0.51	0.76	0.28	2.21	0.99	0.31
Control Delay	66.6	36.6	0.5	181.4	35.4	8.2	56.1	35.8	11.6	583.5	59.5	4.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	66.6	36.6	0.5	181.4	35.4	8.2	56.1	35.8	11.6	583.5	59.5	4.6
LOS	E	D	A	F	D	A	E	D	B	F	E	A
Approach Delay		42.5			44.9			33.2			200.3	
Approach LOS		D			D			C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 102.2	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.21	
Intersection Signal Delay: 99.2	Intersection LOS: F
Intersection Capacity Utilization 91.4%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	365	946	74	87	455	207	89	857	195	544	1119	260
Future Volume (veh/h)	365	946	74	87	455	207	89	857	195	544	1119	260
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	372	965	64	89	464	140	91	874	157	555	1142	223
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	428	1177	525	84	859	383	114	1127	582	260	1187	744
Arrive On Green	0.14	0.34	0.34	0.05	0.25	0.25	0.07	0.33	0.33	0.09	0.35	0.35
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	372	965	64	89	464	140	91	874	157	555	1142	223
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	11.9	24.9	2.8	5.0	11.3	7.3	5.3	22.2	6.9	8.5	31.6	8.5
Cycle Q Clear(g_c), s	11.9	24.9	2.8	5.0	11.3	7.3	5.3	22.2	6.9	8.5	31.6	8.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	428	1177	525	84	859	383	114	1127	582	260	1187	744
V/C Ratio(X)	0.87	0.82	0.12	1.06	0.54	0.37	0.80	0.78	0.27	2.13	0.96	0.30
Avail Cap(c_a), veh/h	444	1630	727	84	1293	577	294	1506	751	260	1187	744
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.4	28.9	21.7	45.8	31.3	29.8	44.2	29.1	20.6	44.0	30.9	14.6
Incr Delay (d2), s/veh	16.3	2.4	0.1	116.0	0.5	0.6	11.8	1.9	0.2	522.1	17.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	9.8	1.0	4.6	4.5	2.6	2.4	8.5	2.3	21.8	14.5	2.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	56.7	31.4	21.8	161.7	31.8	30.4	56.0	31.0	20.8	566.1	48.7	14.9
LnGrp LOS	E	C	C	F	C	C	E	C	C	F	D	B
Approach Vol, veh/h		1401			693			1122			1920	
Approach Delay, s/veh		37.6			48.2			31.6			194.3	
Approach LOS		D			D			C			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.0	36.3	9.5	37.7	11.3	38.0	18.5	28.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.5	42.5	5.0	46.0	17.5	33.5	14.5	36.5
Max Q Clear Time (g_c+I1), s	10.5	24.2	7.0	26.9	7.3	33.6	13.9	13.3
Green Ext Time (p_c), s	0.0	5.5	0.0	6.3	0.1	0.0	0.1	3.2

Intersection Summary	
HCM 6th Ctrl Delay	96.3
HCM 6th LOS	F

Intersection	
Intersection Delay, s/veh	18.5
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	58	419	23	8	118	14	28	173	21	17	93	20
Future Vol, veh/h	58	419	23	8	118	14	28	173	21	17	93	20
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	62	446	24	9	126	15	30	184	22	18	99	21
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	25	10.9	13	11.2
HCM LOS	C	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	12%	6%	13%
Vol Thru, %	78%	84%	84%	72%
Vol Right, %	9%	5%	10%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	222	500	140	130
LT Vol	28	58	8	17
Through Vol	173	419	118	93
RT Vol	21	23	14	20
Lane Flow Rate	236	532	149	138
Geometry Grp	1	1	1	1
Degree of Util (X)	0.395	0.784	0.243	0.238
Departure Headway (Hd)	6.017	5.303	5.879	6.2
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	593	681	606	574
Service Time	4.098	3.363	3.966	4.292
HCM Lane V/C Ratio	0.398	0.781	0.246	0.24
HCM Control Delay	13	25	10.9	11.2
HCM Lane LOS	B	C	B	B
HCM 95th-tile Q	1.9	7.7	0.9	0.9

Intersection	
Intersection Delay, s/veh	257.7
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	65	730	25	6	660	17	8	186	13	20	180	24
Future Vol, veh/h	65	730	25	6	660	17	8	186	13	20	180	24
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	71	793	27	7	717	18	9	202	14	22	196	26
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	382.6	253.7	25.8	27
HCM LOS	F	F	D	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	4%	8%	1%	9%
Vol Thru, %	90%	89%	97%	80%
Vol Right, %	6%	3%	2%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	207	820	683	224
LT Vol	8	65	6	20
Through Vol	186	730	660	180
RT Vol	13	25	17	24
Lane Flow Rate	225	891	742	243
Geometry Grp	1	1	1	1
Degree of Util (X)	0.524	1.786	1.485	0.56
Departure Headway (Hd)	11.134	8.176	8.642	10.944
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	326	455	431	334
Service Time	9.134	6.176	6.642	8.944
HCM Lane V/C Ratio	0.69	1.958	1.722	0.728
HCM Control Delay	25.8	382.6	253.7	27
HCM Lane LOS	D	F	F	D
HCM 95th-tile Q	2.9	49.2	32.4	3.2

Intersection	
Intersection Delay, s/veh	158.3
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	119	230	104	2	79	49	35	627	34	61	228	33
Future Vol, veh/h	119	230	104	2	79	49	35	627	34	61	228	33
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	131	253	114	2	87	54	38	689	37	67	251	36
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	79.2	19	292	36.9
HCM LOS	F	C	F	E

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	26%	2%	19%
Vol Thru, %	90%	51%	61%	71%
Vol Right, %	5%	23%	38%	10%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	696	453	130	322
LT Vol	35	119	2	61
Through Vol	627	230	79	228
RT Vol	34	104	49	33
Lane Flow Rate	765	498	143	354
Geometry Grp	1	1	1	1
Degree of Util (X)	1.582	1.02	0.347	0.772
Departure Headway (Hd)	7.68	8.633	10.524	9.108
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	482	423	344	400
Service Time	5.68	6.633	8.524	7.108
HCM Lane V/C Ratio	1.587	1.177	0.416	0.885
HCM Control Delay	292	79.2	19	36.9
HCM Lane LOS	F	F	C	E
HCM 95th-tile Q	40.9	13.2	1.5	6.5

Intersection	
Intersection Delay, s/veh	593.4
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	53	538	165	25	230	36	439	593	111	53	260	26
Future Vol, veh/h	53	538	165	25	230	36	439	593	111	53	260	26
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	57	578	177	27	247	39	472	638	119	57	280	28
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	482.7	74	947.5	91.9
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	38%	7%	9%	16%
Vol Thru, %	52%	71%	79%	77%
Vol Right, %	10%	22%	12%	8%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	1143	756	291	339
LT Vol	439	53	25	53
Through Vol	593	538	230	260
RT Vol	111	165	36	26
Lane Flow Rate	1229	813	313	365
Geometry Grp	1	1	1	1
Degree of Util (X)	3.036	1.977	0.801	0.908
Departure Headway (Hd)	11.503	13.758	19.921	19.039
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	332	276	185	193
Service Time	9.503	11.758	17.921	17.039
HCM Lane V/C Ratio	3.702	2.946	1.692	1.891
HCM Control Delay	947.5	482.7	74	91.9
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	83.9	37.2	5.5	7

Intersection	
Intersection Delay, s/veh	362.5
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	20	661	3	196	263	71	1	110	686	167	58	19
Future Vol, veh/h	20	661	3	196	263	71	1	110	686	167	58	19
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	22	718	3	213	286	77	1	120	746	182	63	21
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

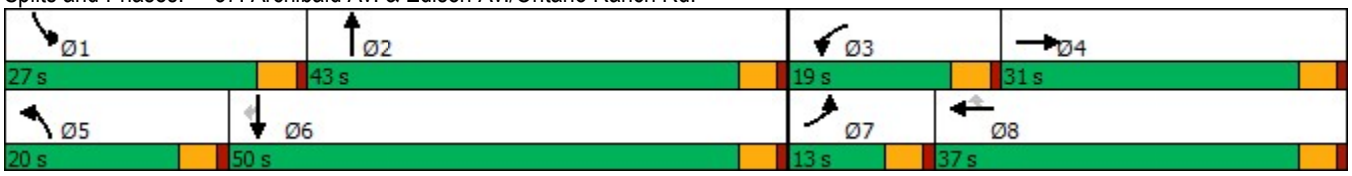
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	415.9	245	488.5	56.4
HCM LOS	F	F	F	F

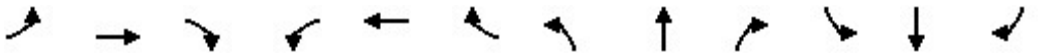
Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	3%	37%	68%
Vol Thru, %	14%	97%	50%	24%
Vol Right, %	86%	0%	13%	8%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	797	684	530	244
LT Vol	1	20	196	167
Through Vol	110	661	263	58
RT Vol	686	3	71	19
Lane Flow Rate	866	743	576	265
Geometry Grp	1	1	1	1
Degree of Util (X)	2.006	1.829	1.416	0.714
Departure Headway (Hd)	11.299	13.045	14.434	18.042
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	329	290	259	204
Service Time	9.299	11.045	12.434	16.042
HCM Lane V/C Ratio	2.632	2.562	2.224	1.299
HCM Control Delay	488.5	415.9	245	56.4
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	45.4	34.1	19.7	4.6

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	318	1071	293	377	376	116	106	1146	608	162	964	137
Future Volume (vph)	318	1071	293	377	376	116	106	1146	608	162	964	137
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	13.0	31.0		19.0	37.0	37.0	20.0	43.0		27.0	50.0	50.0
Total Split (%)	10.8%	25.8%		15.8%	30.8%	30.8%	16.7%	35.8%		22.5%	41.7%	41.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	8.5	26.5	114.8	14.5	32.6	32.6	12.5	38.8	114.8	16.9	43.2	43.2
Actuated g/C Ratio	0.07	0.23	1.00	0.13	0.28	0.28	0.11	0.34	1.00	0.15	0.38	0.38
v/c Ratio	1.49	1.35	0.20	1.03	0.78	0.23	0.64	0.99	0.42	0.72	0.75	0.22
Control Delay	279.4	202.9	0.3	104.4	50.4	5.5	65.8	62.6	0.8	63.9	35.6	5.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	279.4	202.9	0.3	104.4	50.4	5.5	65.8	62.6	0.8	63.9	35.6	5.6
LOS	F	F	A	F	D	A	E	E	A	E	D	A
Approach Delay		182.1			67.9			42.6			36.0	
Approach LOS		F			E			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 114.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.49	
Intersection Signal Delay: 86.3	Intersection LOS: F
Intersection Capacity Utilization 102.5%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	318	1071	293	377	376	116	106	1146	608	162	964	137
Future Volume (veh/h)	318	1071	293	377	376	116	106	1146	608	162	964	137
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	335	1127	0	397	396	80	112	1206	0	171	1015	125
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	233	858		397	526	445	136	1246		200	1387	588
Arrive On Green	0.08	0.24	0.00	0.13	0.29	0.29	0.08	0.35	0.00	0.12	0.39	0.39
Sat Flow, veh/h	3048	3600	1525	3048	1800	1524	1619	3600	1525	1619	3600	1525
Grp Volume(v), veh/h	335	1127	0	397	396	80	112	1206	0	171	1015	125
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1524	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	8.5	26.5	0.0	14.5	22.2	4.4	7.6	36.6	0.0	11.5	26.8	6.1
Cycle Q Clear(g_c), s	8.5	26.5	0.0	14.5	22.2	4.4	7.6	36.6	0.0	11.5	26.8	6.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	233	858		397	526	445	136	1246		200	1387	588
V/C Ratio(X)	1.44	1.31		1.00	0.75	0.18	0.82	0.97		0.86	0.73	0.21
Avail Cap(c_a), veh/h	233	858		397	526	445	226	1246		328	1473	624
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.4	42.4	0.0	48.3	35.7	29.4	50.1	35.7	0.0	47.8	29.3	22.9
Incr Delay (d2), s/veh	219.9	149.5	0.0	44.9	6.1	0.2	11.5	18.2	0.0	11.5	1.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.2	28.9	0.0	7.7	10.1	1.6	3.4	17.8	0.0	5.0	10.9	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	271.2	191.8	0.0	93.2	41.8	29.6	61.5	54.0	0.0	59.3	31.1	23.1
LnGrp LOS	F	F		F	D	C	E	D		E	C	C
Approach Vol, veh/h		1462	A		873			1318	A		1311	
Approach Delay, s/veh		210.0			64.1			54.6			34.0	
Approach LOS		F			E			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.2	43.0	19.0	31.0	13.9	47.3	13.0	37.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	22.5	38.5	14.5	26.5	15.5	45.5	8.5	32.5
Max Q Clear Time (g_c+I1), s	13.5	38.6	16.5	28.5	9.6	28.8	10.5	24.2
Green Ext Time (p_c), s	0.3	0.0	0.0	0.0	0.1	6.1	0.0	1.5

Intersection Summary	
HCM 6th Ctrl Delay	96.6
HCM 6th LOS	F

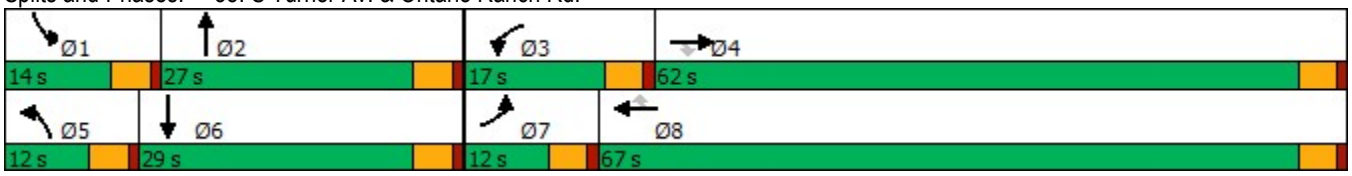
Notes

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	45	1793	48	60	976	27	18	12	45	30
Future Volume (vph)	45	1793	48	60	976	27	18	12	45	30
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	27.0	14.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	22.5%	11.7%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.0	58.9	58.9	8.9	60.7	60.7	6.5	8.2	7.8	13.7
Actuated g/C Ratio	0.07	0.61	0.61	0.09	0.63	0.63	0.07	0.08	0.08	0.14
v/c Ratio	0.37	0.88	0.05	0.39	0.46	0.03	0.16	0.26	0.33	0.19
Control Delay	55.7	25.5	0.1	52.1	12.5	0.0	50.6	24.3	52.6	29.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.7	25.5	0.1	52.1	12.5	0.0	50.6	24.3	52.6	29.3
LOS	E	C	A	D	B	A	D	C	D	C
Approach Delay		25.6			14.4			32.1		40.5
Approach LOS		C			B			C		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 96.8	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.88	
Intersection Signal Delay: 22.3	Intersection LOS: C
Intersection Capacity Utilization 66.5%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	45	1793	48	60	976	27	18	12	30	45	30	19
Future Volume (veh/h)	45	1793	48	60	976	27	18	12	30	45	30	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	48	1928	47	65	1049	26	19	13	20	48	32	18
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	74	2272	1013	86	2295	1024	39	41	64	74	92	52
Arrive On Green	0.04	0.63	0.63	0.05	0.64	0.64	0.02	0.06	0.06	0.04	0.08	0.08
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	675	1038	1810	1142	642
Grp Volume(v), veh/h	48	1928	47	65	1049	26	19	0	33	48	0	50
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1713	1810	0	1784
Q Serve(g_s), s	2.1	34.6	0.9	2.9	12.1	0.5	0.8	0.0	1.5	2.1	0.0	2.2
Cycle Q Clear(g_c), s	2.1	34.6	0.9	2.9	12.1	0.5	0.8	0.0	1.5	2.1	0.0	2.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.61	1.00		0.36
Lane Grp Cap(c), veh/h	74	2272	1013	86	2295	1024	39	0	105	74	0	144
V/C Ratio(X)	0.65	0.85	0.05	0.76	0.46	0.03	0.49	0.00	0.31	0.65	0.00	0.35
Avail Cap(c_a), veh/h	167	2552	1138	278	2774	1237	167	0	474	211	0	537
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	38.4	12.0	5.8	38.3	7.6	5.5	39.4	0.0	36.5	38.4	0.0	35.4
Incr Delay (d2), s/veh	9.3	2.6	0.0	12.8	0.1	0.0	9.2	0.0	1.7	9.3	0.0	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	10.8	0.2	1.5	3.5	0.1	0.5	0.0	0.6	1.1	0.0	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	47.8	14.6	5.8	51.1	7.7	5.5	48.6	0.0	38.2	47.8	0.0	36.8
LnGrp LOS	D	B	A	D	A	A	D	A	D	D	A	D
Approach Vol, veh/h		2023			1140			52			98	
Approach Delay, s/veh		15.2			10.2			42.0			42.2	
Approach LOS		B			B			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.8	9.5	8.3	55.7	6.2	11.1	7.8	56.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.5	22.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	4.1	3.5	4.9	36.6	2.8	4.2	4.1	14.1
Green Ext Time (p_c), s	0.0	0.1	0.1	14.6	0.0	0.2	0.0	8.7

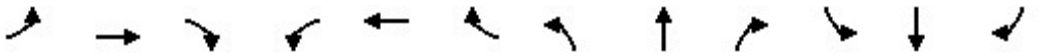
Intersection Summary	
HCM 6th Ctrl Delay	14.7
HCM 6th LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	195	1601	38	243	939	212	19	198	75	216	337	68
Future Volume (vph)	195	1601	38	243	939	212	19	198	75	216	337	68
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	27.0	33.0	33.0	22.0	28.0	28.0	11.0	32.0	32.0	33.0	54.0	54.0
Total Split (%)	22.5%	27.5%	27.5%	18.3%	23.3%	23.3%	9.2%	26.7%	26.7%	27.5%	45.0%	45.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	17.4	29.3	29.3	13.7	25.6	25.6	6.2	17.1	17.1	19.2	37.1	37.1
Actuated g/C Ratio	0.18	0.30	0.30	0.14	0.26	0.26	0.06	0.18	0.18	0.20	0.38	0.38
v/c Ratio	0.73	1.17	0.07	0.63	0.62	0.41	0.19	0.68	0.20	0.73	0.53	0.11
Control Delay	55.2	117.0	0.3	48.8	36.4	7.7	54.0	50.5	1.1	51.9	27.7	0.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.2	117.0	0.3	48.8	36.4	7.7	54.0	50.5	1.1	51.9	27.7	0.4
LOS	E	F	A	D	D	A	D	D	A	D	C	A
Approach Delay		108.0			34.2			38.0			33.1	
Approach LOS		F			C			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 97.7	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.17	
Intersection Signal Delay: 67.0	Intersection LOS: E
Intersection Capacity Utilization 80.4%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	195	1601	38	243	939	212	19	198	75	216	337	68
Future Volume (veh/h)	195	1601	38	243	939	212	19	198	75	216	337	68
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	210	1722	26	261	1010	160	20	213	47	232	362	49
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	249	1689	524	342	1894	461	36	278	235	273	542	457
Arrive On Green	0.15	0.34	0.34	0.12	0.31	0.31	0.02	0.15	0.15	0.17	0.30	0.30
Sat Flow, veh/h	1619	4914	1525	2956	6192	1505	1619	1800	1522	1619	1800	1518
Grp Volume(v), veh/h	210	1722	26	261	1010	160	20	213	47	232	362	49
Grp Sat Flow(s),veh/h/ln	1619	1638	1525	1478	1548	1505	1619	1800	1522	1619	1800	1518
Q Serve(g_s), s	10.5	28.5	0.9	7.1	11.2	6.8	1.0	9.4	2.2	11.5	14.6	1.9
Cycle Q Clear(g_c), s	10.5	28.5	0.9	7.1	11.2	6.8	1.0	9.4	2.2	11.5	14.6	1.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	249	1689	524	342	1894	461	36	278	235	273	542	457
V/C Ratio(X)	0.84	1.02	0.05	0.76	0.53	0.35	0.55	0.77	0.20	0.85	0.67	0.11
Avail Cap(c_a), veh/h	439	1689	524	624	1894	461	127	597	505	557	1075	906
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.1	27.2	18.2	35.5	23.9	22.3	40.1	33.6	30.6	33.4	25.3	20.9
Incr Delay (d2), s/veh	7.7	26.9	0.0	3.5	0.3	0.4	12.7	4.4	0.4	7.2	1.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	13.9	0.3	2.5	3.7	2.2	0.5	4.2	0.8	4.8	5.9	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.8	54.1	18.2	39.1	24.1	22.8	52.8	38.0	31.0	40.7	26.8	21.0
LnGrp LOS	D	F	B	D	C	C	D	D	C	D	C	C
Approach Vol, veh/h		1958			1431			280			643	
Approach Delay, s/veh		52.3			26.7			37.9			31.4	
Approach LOS		D			C			D			C	

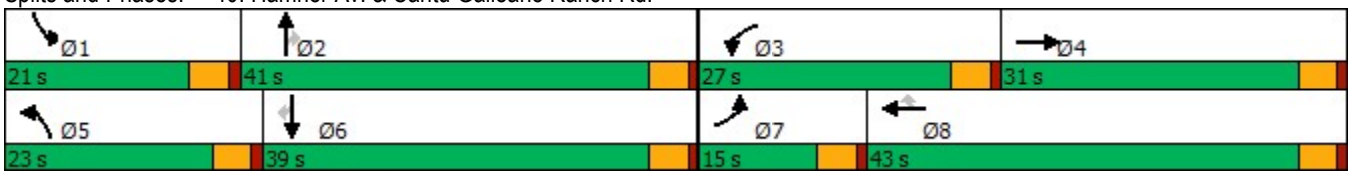
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.5	17.3	14.1	33.0	6.3	29.5	17.2	29.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	27.5	17.5	28.5	6.5	49.5	22.5	23.5
Max Q Clear Time (g_c+I1), s	13.5	11.4	9.1	30.5	3.0	16.6	12.5	13.2
Green Ext Time (p_c), s	0.5	1.0	0.5	0.0	0.0	2.2	0.4	4.7

Intersection Summary	
HCM 6th Ctrl Delay	39.7
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	167	1426	410	1010	166	329	399	323	265	558	108
Future Volume (vph)	167	1426	410	1010	166	329	399	323	265	558	108
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	27.0	43.0	43.0	23.0	41.0	41.0	21.0	39.0	39.0
Total Split (%)	12.5%	25.8%	22.5%	35.8%	35.8%	19.2%	34.2%	34.2%	17.5%	32.5%	32.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	9.7	28.5	17.8	36.6	36.6	15.2	25.1	25.1	13.3	23.2	23.2
Actuated g/C Ratio	0.09	0.28	0.17	0.36	0.36	0.15	0.24	0.24	0.13	0.23	0.23
v/c Ratio	0.53	1.00	0.72	0.83	0.26	0.67	0.33	0.52	0.62	0.72	0.24
Control Delay	53.2	59.8	48.4	38.3	7.3	49.8	33.0	6.6	50.1	42.7	5.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.2	59.8	48.4	38.3	7.3	49.8	33.0	6.6	50.1	42.7	5.0
LOS	D	E	D	D	A	D	C	A	D	D	A
Approach Delay		59.2		37.6			30.1			40.5	
Approach LOS		E		D			C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 102.9	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.00	
Intersection Signal Delay: 44.1	Intersection LOS: D
Intersection Capacity Utilization 76.9%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	167	1426	281	410	1010	166	329	399	323	265	558	108
Future Volume (veh/h)	167	1426	281	410	1010	166	329	399	323	265	558	108
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	176	1501	239	432	1063	109	346	420	256	279	587	73
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	256	1703	271	541	1366	609	445	1226	381	373	779	347
Arrive On Green	0.07	0.30	0.30	0.15	0.38	0.38	0.13	0.24	0.24	0.11	0.22	0.22
Sat Flow, veh/h	3510	5727	911	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	176	1285	455	432	1063	109	346	420	256	279	587	73
Grp Sat Flow(s),veh/h/ln	1755	1634	1736	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	4.3	21.8	21.8	10.4	22.7	3.9	8.3	5.9	12.6	6.7	13.3	3.3
Cycle Q Clear(g_c), s	4.3	21.8	21.8	10.4	22.7	3.9	8.3	5.9	12.6	6.7	13.3	3.3
Prop In Lane	1.00		0.52	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	256	1458	516	541	1366	609	445	1226	381	373	779	347
V/C Ratio(X)	0.69	0.88	0.88	0.80	0.78	0.18	0.78	0.34	0.67	0.75	0.75	0.21
Avail Cap(c_a), veh/h	422	1487	527	904	1591	710	744	2168	673	663	1426	636
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.5	29.2	29.2	35.6	23.9	18.1	36.9	27.7	30.3	37.9	32.1	28.1
Incr Delay (d2), s/veh	3.3	6.4	15.8	2.8	2.2	0.1	3.0	0.2	2.1	3.0	1.5	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	8.4	10.3	4.3	8.7	1.3	3.5	2.3	4.6	2.9	5.5	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.8	35.7	45.1	38.4	26.1	18.2	39.9	27.9	32.4	40.9	33.6	28.4
LnGrp LOS	D	D	D	D	C	B	D	C	C	D	C	C
Approach Vol, veh/h		1916			1604			1022			939	
Approach Delay, s/veh		38.5			28.9			33.1			35.4	
Approach LOS		D			C			C			D	

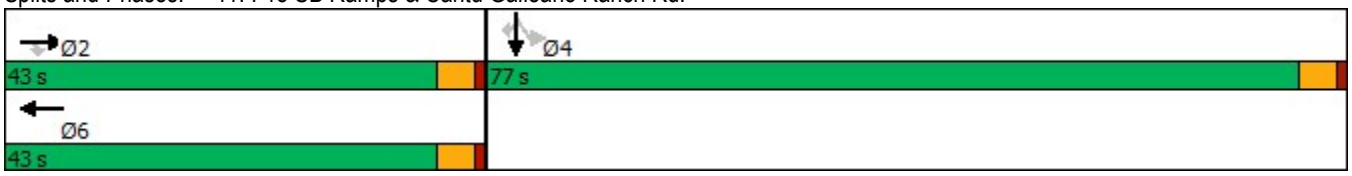
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	25.1	17.9	30.5	15.6	23.3	10.9	37.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	36.5	22.5	26.5	18.5	34.5	10.5	38.5
Max Q Clear Time (g_c+I1), s	8.7	14.6	12.4	23.8	10.3	15.3	6.3	24.7
Green Ext Time (p_c), s	0.5	3.3	1.1	2.1	0.7	3.5	0.2	5.8

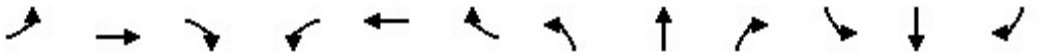
Intersection Summary	
HCM 6th Ctrl Delay	34.1
HCM 6th LOS	C

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	1951	363	693	154	332	1	1517
Future Volume (vph)	1951	363	693	154	332	1	1517
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	43.0	43.0	43.0		77.0	77.0	77.0
Total Split (%)	35.8%	35.8%	35.8%		64.2%	64.2%	64.2%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	38.7	38.7	38.7	115.2	67.4	67.4	67.4
Actuated g/C Ratio	0.34	0.34	0.34	1.00	0.59	0.59	0.59
v/c Ratio	1.19	0.55	0.61	0.06	0.32	0.93	0.90
Control Delay	127.3	14.8	35.5	0.0	12.9	39.0	33.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	127.3	14.8	35.5	0.0	12.9	39.0	33.3
LOS	F	B	D	A	B	D	C
Approach Delay	109.6		29.1			32.4	
Approach LOS	F		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 115.2	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.19	
Intersection Signal Delay: 67.5	Intersection LOS: E
Intersection Capacity Utilization 89.3%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	1951	363	0	693	154	0	0	0	332	1	1517
Future Volume (veh/h)	0	1951	363	0	693	154	0	0	0	332	1	1517
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	2076	0	0	737	0				236	0	1429
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94				0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	2071		0	1441					918	0	1634
Arrive On Green	0.00	0.40	0.00	0.00	0.40	0.00				0.51	0.00	0.51
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	2076	0	0	737	0				236	0	1429
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	38.5	0.0	0.0	14.9	0.0				7.1	0.0	37.9
Cycle Q Clear(g_c), s	0.0	38.5	0.0	0.0	14.9	0.0				7.1	0.0	37.9
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2071		0	1441					918	0	1634
V/C Ratio(X)	0.00	1.00		0.00	0.51					0.26	0.00	0.87
Avail Cap(c_a), veh/h	0	2071		0	1441					1360	0	2421
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	29.0	0.0	0.0	21.9	0.0				13.5	0.0	21.0
Incr Delay (d2), s/veh	0.0	20.4	0.0	0.0	0.3	0.0				0.1	0.0	2.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	17.8	0.0	0.0	5.7	0.0				2.7	0.0	13.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	49.3	0.0	0.0	22.2	0.0				13.6	0.0	23.7
LnGrp LOS	A	F		A	C					B	A	C
Approach Vol, veh/h		2076	A		737	A					1665	
Approach Delay, s/veh		49.3			22.2						22.2	
Approach LOS		D			C						C	

Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		43.0		53.4		43.0						
Change Period (Y+Rc), s		4.5		4.5		4.5						
Max Green Setting (Gmax), s		38.5		72.5		38.5						
Max Q Clear Time (g_c+I1), s		40.5		39.9		16.9						
Green Ext Time (p_c), s		0.0		9.0		4.3						

Intersection Summary		
HCM 6th Ctrl Delay		34.8
HCM 6th LOS		C

Notes

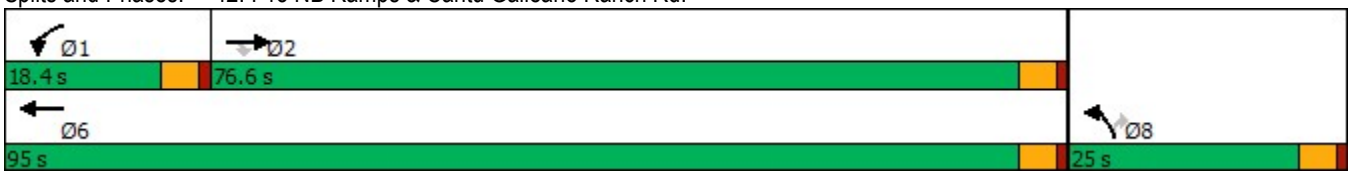
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	830	1454	241	463	383	169
Future Volume (vph)	830	1454	241	463	383	169
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	76.6	76.6	18.4	95.0	25.0	25.0
Total Split (%)	63.8%	63.8%	15.3%	79.2%	20.8%	20.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	72.2	72.2	12.5	89.2	17.8	17.8
Actuated g/C Ratio	0.62	0.62	0.11	0.77	0.15	0.15
v/c Ratio	0.24	1.20	0.65	0.11	0.75	0.41
Control Delay	10.3	114.7	58.3	3.6	55.9	10.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	10.3	114.7	58.3	3.6	55.9	10.2
LOS	B	F	E	A	E	B
Approach Delay	76.8			22.3	43.3	
Approach LOS	E			C	D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.20	
Intersection Signal Delay: 60.7	Intersection LOS: E
Intersection Capacity Utilization 104.4%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	830	1454	241	463	383	169
Future Volume (veh/h)	830	1454	241	463	383	169
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	865	1015	251	482	399	93
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	3712	1049	323	4457	489	217
Arrive On Green	0.65	0.65	0.09	0.78	0.14	0.14
Sat Flow, veh/h	5700	1610	3619	5700	3619	1610
Grp Volume(v), veh/h	865	1015	251	482	399	93
Grp Sat Flow(s),veh/h/ln	1900	1610	1810	1900	1810	1610
Q Serve(g_s), s	6.8	64.5	7.4	2.2	11.6	5.7
Cycle Q Clear(g_c), s	6.8	64.5	7.4	2.2	11.6	5.7
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	3712	1049	323	4457	489	217
V/C Ratio(X)	0.23	0.97	0.78	0.11	0.82	0.43
Avail Cap(c_a), veh/h	3790	1071	464	4757	684	304
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.8	17.8	48.3	2.8	45.6	43.0
Incr Delay (d2), s/veh	0.0	20.0	5.2	0.0	5.3	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.2	23.7	3.4	0.5	5.4	2.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	7.8	37.8	53.5	2.8	50.9	44.4
LnGrp LOS	A	D	D	A	D	D
Approach Vol, veh/h	1880			733	492	
Approach Delay, s/veh	24.0			20.2	49.7	
Approach LOS	C			C	D	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	14.2	75.1				89.3	19.1
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	13.9	72.1				90.5	20.5
Max Q Clear Time (g_c+I1), s	9.4	66.5				4.2	13.6
Green Ext Time (p_c), s	0.3	4.1				3.0	1.0

Intersection Summary	
HCM 6th Ctrl Delay	27.2
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

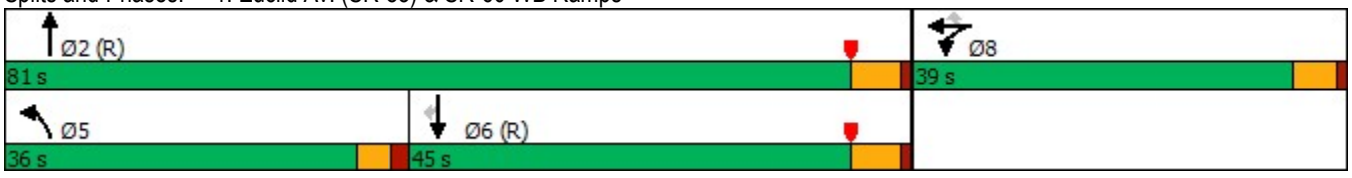
APPENDIX 6.2: OPENING YEAR CUMULATIVE (2027) WITH PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

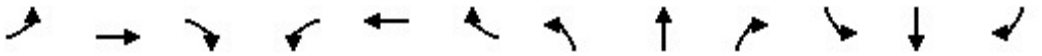
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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	794	7	406	576	963	1012	388
Future Volume (vph)	794	7	406	576	963	1012	388
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5	22.5
Total Split (s)	39.0	39.0	39.0	36.0	81.0	45.0	45.0
Total Split (%)	32.5%	32.5%	32.5%	30.0%	67.5%	37.5%	37.5%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5	5.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min
Act Effct Green (s)	34.0	34.0	34.0	31.5	75.5	39.5	39.5
Actuated g/C Ratio	0.28	0.28	0.28	0.26	0.63	0.33	0.33
v/c Ratio	0.93	0.97	0.75	1.31	0.46	0.92	0.54
Control Delay	69.9	78.5	36.6	191.5	12.6	51.5	8.3
Queue Delay	5.7	9.2	0.0	0.0	0.5	0.0	0.0
Total Delay	75.6	87.6	36.6	191.5	13.1	51.5	8.3
LOS	E	F	D	F	B	D	A
Approach Delay		68.0			79.9	39.5	
Approach LOS		E			E	D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 120	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.31	
Intersection Signal Delay: 62.8	Intersection LOS: E
Intersection Capacity Utilization 153.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	794	7	406	576	963	0	0	1012	388
Future Volume (veh/h)	0	0	0	794	7	406	576	963	0	0	1012	388
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				940	0	180	619	1035	0	0	1088	250
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				996	0	443	475	2300	0	0	1217	543
Arrive On Green				0.28	0.00	0.28	0.52	1.00	0.00	0.00	0.34	0.34
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				940	0	180	619	1035	0	0	1088	250
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				30.5	0.0	10.9	31.5	0.0	0.0	0.0	34.3	14.6
Cycle Q Clear(g_c), s				30.5	0.0	10.9	31.5	0.0	0.0	0.0	34.3	14.6
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				996	0	443	475	2300	0	0	1217	543
V/C Ratio(X)				0.94	0.00	0.41	1.30	0.45	0.00	0.00	0.89	0.46
Avail Cap(c_a), veh/h				1025	0	456	475	2300	0	0	1217	543
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.29	0.29	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				42.6	0.0	35.5	28.5	0.0	0.0	0.0	37.7	31.2
Incr Delay (d2), s/veh				15.8	0.0	0.2	141.0	0.2	0.0	0.0	10.2	2.8
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				15.3	0.0	4.2	27.8	0.1	0.0	0.0	16.3	6.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				58.3	0.0	35.7	169.5	0.2	0.0	0.0	48.0	34.0
LnGrp LOS				E	A	D	F	A	A	A	D	C
Approach Vol, veh/h					1120			1654			1338	
Approach Delay, s/veh					54.7			63.5			45.4	
Approach LOS					D			E			D	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	82.0		36.0	46.0		38.0						
Change Period (Y+Rc), s	5.5		4.5	5.5		5.0						
Max Green Setting (Gmax), s	75.5		31.5	39.5		34.0						
Max Q Clear Time (g_c+I1), s	2.0		33.5	36.3		32.5						
Green Ext Time (p_c), s	14.1		0.0	2.5		0.5						

Intersection Summary		
HCM 6th Ctrl Delay	55.2	
HCM 6th LOS	E	

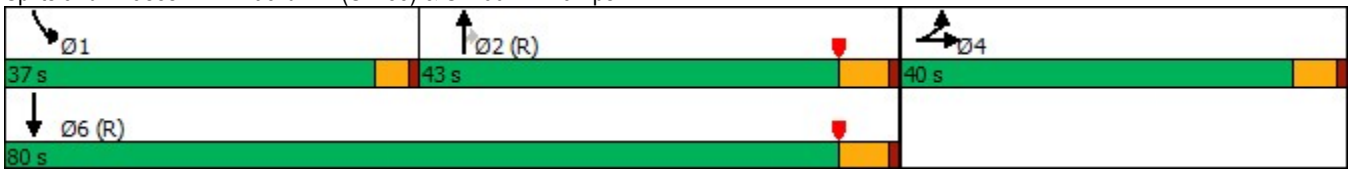
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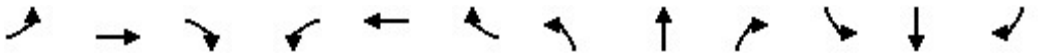
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	427	0	1112	841	411	1395
Future Volume (vph)	427	0	1112	841	411	1395
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	40.0	40.0	43.0	43.0	37.0	80.0
Total Split (%)	33.3%	33.3%	35.8%	35.8%	30.8%	66.7%
Yellow Time (s)	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	35.0	35.0	39.9	39.9	30.6	74.5
Actuated g/C Ratio	0.29	0.29	0.33	0.33	0.26	0.62
v/c Ratio	0.79	2.20	0.96	0.92	0.92	0.64
Control Delay	52.1	570.0	57.4	27.3	66.3	17.8
Queue Delay	56.8	5.5	3.2	0.0	1.6	1.7
Total Delay	108.9	575.5	60.6	27.3	67.9	19.5
LOS	F	F	E	C	E	B
Approach Delay		450.4	46.3			30.5
Approach LOS		F	D			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 110	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 2.20	
Intersection Signal Delay: 152.3	Intersection LOS: F
Intersection Capacity Utilization 153.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	427	0	1006	0	0	0	0	1112	841	411	1395	0
Future Volume (veh/h)	427	0	1006	0	0	0	0	1112	841	411	1395	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	440	0	958				0	1146	672	424	1438	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	528	0	470				0	1238	538	442	2241	0
Arrive On Green	0.29	0.00	0.29				0.00	0.34	0.34	0.49	1.00	0.00
Sat Flow, veh/h	1810	0	1610				0	3705	1567	1810	3705	0
Grp Volume(v), veh/h	440	0	958				0	1146	672	424	1438	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1567	1810	1805	0
Q Serve(g_s), s	27.3	0.0	35.0				0.0	36.7	41.2	27.0	0.0	0.0
Cycle Q Clear(g_c), s	27.3	0.0	35.0				0.0	36.7	41.2	27.0	0.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	528	0	470				0	1238	538	442	2241	0
V/C Ratio(X)	0.83	0.00	2.04				0.00	0.93	1.25	0.96	0.64	0.00
Avail Cap(c_a), veh/h	528	0	470				0	1238	538	498	2241	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.43	0.43	0.27	0.27	0.00
Uniform Delay (d), s/veh	39.8	0.0	42.5				0.0	37.9	39.4	30.1	0.0	0.0
Incr Delay (d2), s/veh	10.4	0.0	475.4				0.0	6.5	119.4	11.4	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.2	0.0	75.3				0.0	16.7	33.0	9.7	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.2	0.0	517.9				0.0	44.4	158.8	41.5	0.4	0.0
LnGrp LOS	D	A	F				A	D	F	D	A	A
Approach Vol, veh/h		1398						1818			1862	
Approach Delay, s/veh		370.7						86.7			9.8	
Approach LOS		F						F			A	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	33.3	46.7		40.0		80.0
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	33.0	37.5		35.0		74.5
Max Q Clear Time (g_c+I1), s	29.0	43.2		37.0		2.0
Green Ext Time (p_c), s	0.3	0.0		0.0		25.4

Intersection Summary		
HCM 6th Ctrl Delay		136.7
HCM 6th LOS		F

Notes

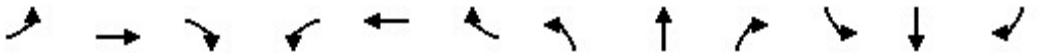
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	105	270	110	409	112	1660	41	196	2008	62
Future Volume (vph)	105	270	110	409	112	1660	41	196	2008	62
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	10.0	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	9.6	29.8	9.6	29.8	9.6	27.4	27.4	9.6	29.4	29.4
Total Split (s)	21.0	34.6	17.4	31.0	23.0	50.6	50.6	17.4	45.0	45.0
Total Split (%)	17.5%	28.8%	14.5%	25.8%	19.2%	42.2%	42.2%	14.5%	37.5%	37.5%
Yellow Time (s)	3.6	4.8	3.6	4.8	3.6	4.4	4.4	3.6	4.4	4.4
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	4.6	5.4	5.4	4.6	5.4	5.4
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	11.6	23.4	11.0	22.7	12.3	45.5	45.5	11.1	44.2	44.2
Actuated g/C Ratio	0.10	0.21	0.10	0.20	0.11	0.41	0.41	0.10	0.40	0.40
v/c Ratio	0.64	0.58	0.71	0.85	0.65	0.85	0.06	0.69	1.06	0.09
Control Delay	66.6	35.2	74.2	52.4	65.0	36.3	0.2	62.4	72.8	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	66.6	35.2	74.2	52.4	65.0	36.3	0.2	62.4	72.8	0.3
LOS	E	D	E	D	E	D	A	E	E	A
Approach Delay		41.4		55.9		37.3			69.9	
Approach LOS		D		E		D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 111.4	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.06	
Intersection Signal Delay: 54.1	Intersection LOS: D
Intersection Capacity Utilization 89.3%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	105	270	150	110	409	171	112	1660	41	196	2008	62
Future Volume (veh/h)	105	270	150	110	409	171	112	1660	41	196	2008	62
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	108	278	119	113	422	146	115	1711	29	202	2070	46
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	132	464	194	137	501	171	140	2136	663	258	2138	663
Arrive On Green	0.08	0.20	0.20	0.08	0.20	0.20	0.09	0.43	0.43	0.09	0.44	0.44
Sat Flow, veh/h	1619	2352	982	1619	2498	855	1619	4914	1524	2956	4914	1524
Grp Volume(v), veh/h	108	200	197	113	288	280	115	1711	29	202	2070	46
Grp Sat Flow(s),veh/h/ln	1619	1710	1623	1619	1710	1643	1619	1638	1524	1478	1638	1524
Q Serve(g_s), s	6.8	11.1	11.5	7.1	16.8	17.1	7.3	31.4	1.1	7.0	42.8	1.8
Cycle Q Clear(g_c), s	6.8	11.1	11.5	7.1	16.8	17.1	7.3	31.4	1.1	7.0	42.8	1.8
Prop In Lane	1.00		0.60	1.00		0.52	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	132	337	320	137	343	329	140	2136	663	258	2138	663
V/C Ratio(X)	0.82	0.59	0.61	0.82	0.84	0.85	0.82	0.80	0.04	0.78	0.97	0.07
Avail Cap(c_a), veh/h	255	474	450	199	414	398	286	2136	663	364	2138	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.0	38.0	38.1	46.8	40.0	40.1	46.7	25.5	16.9	46.5	28.7	17.1
Incr Delay (d2), s/veh	4.6	1.7	1.9	10.9	12.2	13.9	4.5	3.3	0.1	4.4	13.3	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	4.6	4.6	3.2	7.9	7.9	3.0	12.0	0.4	2.7	18.1	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.6	39.6	40.1	57.7	52.1	54.0	51.2	28.8	17.1	50.9	41.9	17.3
LnGrp LOS	D	D	D	E	D	D	D	C	B	D	D	B
Approach Vol, veh/h		505			681			1855			2318	
Approach Delay, s/veh		42.3			53.8			30.0			42.2	
Approach LOS		D			D			C			D	

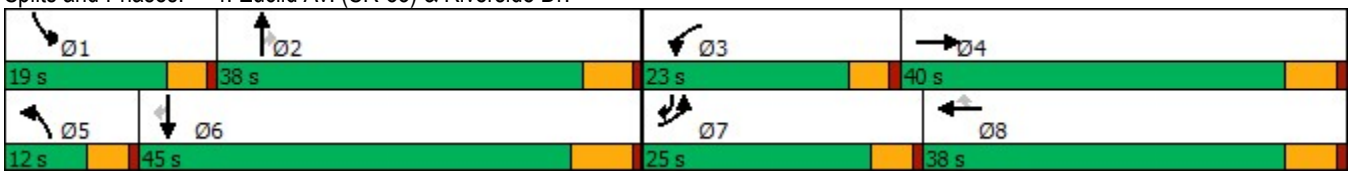
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	50.6	13.4	26.3	13.6	50.7	13.1	26.6
Change Period (Y+Rc), s	4.6	5.4	4.6	5.8	4.6	5.4	4.6	5.8
Max Green Setting (Gmax), s	12.8	45.2	12.8	28.8	18.4	39.6	16.4	25.2
Max Q Clear Time (g_c+I1), s	9.0	33.4	9.1	13.5	9.3	44.8	8.8	19.1
Green Ext Time (p_c), s	0.1	8.3	0.0	1.8	0.1	0.0	0.1	1.6

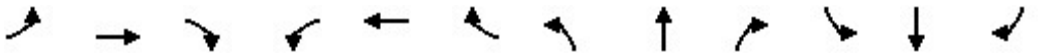
Intersection Summary	
HCM 6th Ctrl Delay	39.5
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	184	357	237	506	108	67	1254	104	243	1904	131
Future Volume (vph)	184	357	237	506	108	67	1254	104	243	1904	131
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	25.0	40.0	23.0	38.0	38.0	12.0	38.0	38.0	19.0	45.0	25.0
Total Split (%)	20.8%	33.3%	19.2%	31.7%	31.7%	10.0%	31.7%	31.7%	15.8%	37.5%	20.8%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	17.2	34.2	18.4	35.4	35.4	7.1	32.6	32.6	14.4	40.9	64.6
Actuated g/C Ratio	0.14	0.28	0.15	0.30	0.30	0.06	0.27	0.27	0.12	0.34	0.54
v/c Ratio	0.81	1.00	0.98	0.51	0.20	0.72	1.38	0.20	1.28	1.67	0.15
Control Delay	75.3	82.2	103.4	38.0	2.4	93.7	211.8	2.5	204.0	332.6	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	75.3	82.2	103.4	38.0	2.4	93.7	211.8	2.5	204.0	332.6	5.1
LOS	E	F	F	D	A	F	F	A	F	F	A
Approach Delay		80.3		51.8			191.0			300.0	
Approach LOS		F		D			F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.67	
Intersection Signal Delay: 201.5	Intersection LOS: F
Intersection Capacity Utilization 120.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	184	357	134	237	506	108	67	1254	104	243	1904	131
Future Volume (veh/h)	184	357	134	237	506	108	67	1254	104	243	1904	131
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	188	364	110	242	516	58	68	1280	64	248	1943	79
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	212	373	113	246	1037	456	84	921	411	193	1149	713
Arrive On Green	0.13	0.28	0.28	0.15	0.30	0.30	0.05	0.27	0.27	0.12	0.34	0.34
Sat Flow, veh/h	1619	1322	400	1619	3420	1503	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	188	0	474	242	516	58	68	1280	64	248	1943	79
Grp Sat Flow(s),veh/h/ln	1619	0	1722	1619	1710	1503	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	13.8	0.0	33.0	18.0	15.0	3.4	5.0	32.6	3.9	14.4	40.7	3.5
Cycle Q Clear(g_c), s	13.8	0.0	33.0	18.0	15.0	3.4	5.0	32.6	3.9	14.4	40.7	3.5
Prop In Lane	1.00		0.23	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	212	0	486	246	1037	456	84	921	411	193	1149	713
V/C Ratio(X)	0.88	0.00	0.97	0.98	0.50	0.13	0.80	1.39	0.16	1.29	1.69	0.11
Avail Cap(c_a), veh/h	273	0	486	246	1037	456	99	921	411	193	1149	713
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.7	0.0	43.0	51.2	34.6	30.6	56.8	44.3	33.8	53.4	40.2	18.1
Incr Delay (d2), s/veh	20.1	0.0	34.2	52.5	0.4	0.1	28.2	182.3	0.2	162.9	314.8	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.6	0.0	18.1	10.7	6.1	1.2	2.6	36.3	1.4	14.5	66.7	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	71.8	0.0	77.2	103.7	35.0	30.7	85.0	226.6	33.9	216.3	355.1	18.2
LnGrp LOS	E	A	E	F	D	C	F	F	C	F	F	B
Approach Vol, veh/h		662			816			1412			2270	
Approach Delay, s/veh		75.7			55.1			211.0			328.2	
Approach LOS		E			E			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	39.1	23.0	40.0	10.9	47.2	20.5	42.5
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	14.4	* 33	18.4	34.2	7.4	38.5	20.4	32.2
Max Q Clear Time (g_c+I1), s	16.4	34.6	20.0	35.0	7.0	42.7	15.8	17.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9

Intersection Summary	
HCM 6th Ctrl Delay	220.5
HCM 6th LOS	F

Notes

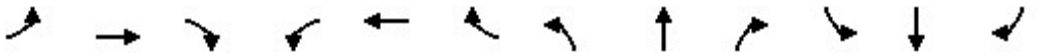
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	77	196	75	119	304	48	1270	132	87	2048	95
Future Volume (vph)	77	196	75	119	304	48	1270	132	87	2048	95
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	52.0	52.0	52.0	52.0	52.0	12.0	52.0	52.0	16.0	56.0	56.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	43.3%	10.0%	43.3%	43.3%	13.3%	46.7%	46.7%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	46.2	46.2	46.2		46.2	6.7	47.1	47.1	9.8	50.9	50.9
Actuated g/C Ratio	0.39	0.39	0.39		0.39	0.06	0.40	0.40	0.08	0.43	0.43
v/c Ratio	0.38	0.29	0.12		1.11	0.55	0.98	0.21	0.68	1.46	0.14
Control Delay	33.1	26.8	5.6		107.0	77.0	55.1	13.5	78.0	237.7	9.2
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	33.1	26.8	5.6		107.0	77.0	55.1	13.5	78.0	237.7	9.2
LOS	C	C	A		F	E	E	B	E	F	A
Approach Delay		23.6			107.0		52.0			221.7	
Approach LOS		C			F		D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.46	
Intersection Signal Delay: 138.8	Intersection LOS: F
Intersection Capacity Utilization 128.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	77	196	75	119	304	169	48	1270	132	87	2048	95
Future Volume (veh/h)	77	196	75	119	304	169	48	1270	132	87	2048	95
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	80	204	57	124	317	175	50	1323	98	91	2133	62
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	203	705	597	132	284	151	62	1356	605	112	1460	651
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.04	0.40	0.40	0.07	0.43	0.43
Sat Flow, veh/h	822	1800	1525	245	726	385	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	80	204	57	616	0	0	50	1323	98	91	2133	62
Grp Sat Flow(s),veh/h/ln	822	1800	1525	1356	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	9.2	2.8	37.0	0.0	0.0	3.6	44.9	4.9	6.5	50.4	2.9
Cycle Q Clear(g_c), s	20.3	9.2	2.8	46.2	0.0	0.0	3.6	44.9	4.9	6.5	50.4	2.9
Prop In Lane	1.00		1.00	0.20		0.28	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	203	705	597	567	0	0	62	1356	605	112	1460	651
V/C Ratio(X)	0.39	0.29	0.10	1.09	0.00	0.00	0.80	0.98	0.16	0.82	1.46	0.10
Avail Cap(c_a), veh/h	203	705	597	567	0	0	102	1356	605	156	1460	651
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	28.0	24.7	22.7	39.2	0.0	0.0	56.3	35.1	23.0	54.2	33.8	20.2
Incr Delay (d2), s/veh	1.2	0.2	0.1	63.1	0.0	0.0	8.7	19.3	0.6	14.1	211.1	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	3.8	1.0	26.0	0.0	0.0	1.6	20.6	1.7	3.0	61.7	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.3	24.9	22.8	102.3	0.0	0.0	65.0	54.3	23.5	68.3	244.9	20.5
LnGrp LOS	C	C	C	F	A	A	E	D	C	E	F	C
Approach Vol, veh/h		341			616			1471			2286	
Approach Delay, s/veh		25.6			102.3			52.6			231.8	
Approach LOS		C			F			D			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.7	53.3		52.0	9.1	56.9		52.0				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 47		46.2	7.4	49.5		46.2				
Max Q Clear Time (g_c+I1), s	8.5	46.9		22.3	5.6	52.4		48.2				
Green Ext Time (p_c), s	0.0	0.0		1.7	0.0	0.0		0.0				

Intersection Summary		
HCM 6th Ctrl Delay		144.1
HCM 6th LOS		F

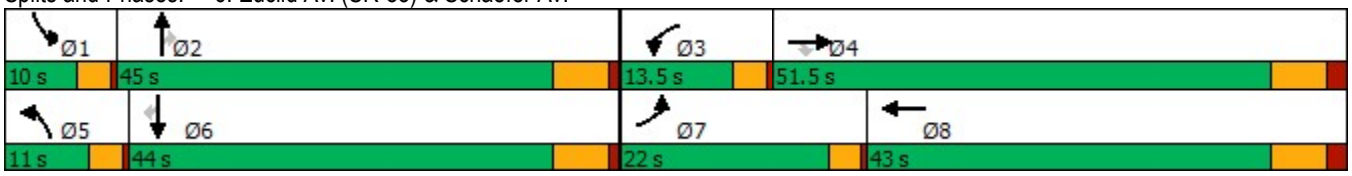
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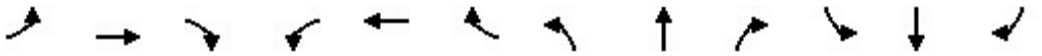
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	238	83	105	4	25	118	1209	34	82	1985	171
Future Volume (vph)	238	83	105	4	25	118	1209	34	82	1985	171
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	22.0	51.5	51.5	13.5	43.0	11.0	45.0	45.0	10.0	44.0	44.0
Total Split (%)	18.3%	42.9%	42.9%	11.3%	35.8%	9.2%	37.5%	37.5%	8.3%	36.7%	36.7%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	19.0	25.4	25.4	10.3	10.6	7.7	40.0	40.0	6.7	39.0	39.0
Actuated g/C Ratio	0.21	0.28	0.28	0.11	0.12	0.08	0.44	0.44	0.07	0.43	0.43
v/c Ratio	0.74	0.17	0.22	0.02	0.19	0.90	0.84	0.05	0.72	1.41	0.24
Control Delay	51.4	24.9	5.9	44.5	27.1	101.4	31.5	0.1	78.3	214.8	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	51.4	24.9	5.9	44.5	27.1	101.4	31.5	0.1	78.3	214.8	8.4
LOS	D	C	A	D	C	F	C	A	E	F	A
Approach Delay		35.0			28.6		36.8			194.1	
Approach LOS		D			C		D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 91.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.41	
Intersection Signal Delay: 123.1	Intersection LOS: F
Intersection Capacity Utilization 100.8%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	238	83	105	4	25	14	118	1209	34	82	1985	171
Future Volume (veh/h)	238	83	105	4	25	14	118	1209	34	82	1985	171
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	248	86	72	4	26	12	123	1259	35	85	2068	141
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	282	399	338	17	68	31	142	1602	714	106	1524	680
Arrive On Green	0.17	0.22	0.22	0.01	0.06	0.06	0.09	0.47	0.47	0.07	0.45	0.45
Sat Flow, veh/h	1619	1800	1525	1619	1165	538	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	248	86	72	4	0	38	123	1259	35	85	2068	141
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1703	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	12.7	3.3	3.3	0.2	0.0	1.8	6.4	26.4	1.1	4.4	38.0	4.8
Cycle Q Clear(g_c), s	12.7	3.3	3.3	0.2	0.0	1.8	6.4	26.4	1.1	4.4	38.0	4.8
Prop In Lane	1.00		1.00	1.00		0.32	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	282	399	338	17	0	99	142	1602	714	106	1524	680
V/C Ratio(X)	0.88	0.22	0.21	0.23	0.00	0.38	0.86	0.79	0.05	0.81	1.36	0.21
Avail Cap(c_a), veh/h	351	939	796	190	0	719	142	1602	714	123	1524	680
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.4	27.1	27.1	41.8	0.0	38.7	38.4	19.1	12.3	39.3	23.6	14.4
Incr Delay (d2), s/veh	16.6	0.2	0.2	2.5	0.0	1.8	37.4	2.7	0.0	23.7	165.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.0	1.4	1.1	0.1	0.0	0.8	3.8	9.1	0.3	2.3	47.5	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.0	27.3	27.4	44.4	0.0	40.5	75.8	21.8	12.4	63.0	188.7	14.6
LnGrp LOS	D	C	C	D	A	D	E	C	B	E	F	B
Approach Vol, veh/h		406			42			1417			2294	
Approach Delay, s/veh		41.8			40.9			26.2			173.4	
Approach LOS		D			D			C			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	9.1	45.9	4.4	25.9	11.0	44.0	18.3	12.0
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	6.5	39.0	10.0	44.5	7.5	38.0	18.5	36.0
Max Q Clear Time (g_c+I1), s	6.4	28.4	2.2	5.3	8.4	40.0	14.7	3.8
Green Ext Time (p_c), s	0.0	5.7	0.0	0.5	0.0	0.0	0.1	0.1

Intersection Summary	
HCM 6th Ctrl Delay	109.0
HCM 6th LOS	F

Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	3	1084	9	0	2022
Future Vol, veh/h	0	3	1084	9	0	2022
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	3	1178	10	0	2198

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	594	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	453	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	453	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	13	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	453	-
HCM Lane V/C Ratio	-	-	0.007	-
HCM Control Delay (s)	-	-	13	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0	-

Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	11	1083	33	0	2022
Future Vol, veh/h	0	11	1083	33	0	2022
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	12	1177	36	0	2198

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	607	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	444	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	444	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	13.3	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	444	-
HCM Lane V/C Ratio	-	-	0.027	-
HCM Control Delay (s)	-	-	13.3	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	12	1104	29	0	2022
Future Vol, veh/h	0	12	1104	29	0	2022
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	13	1200	32	0	2198

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	616	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	438	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	438	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

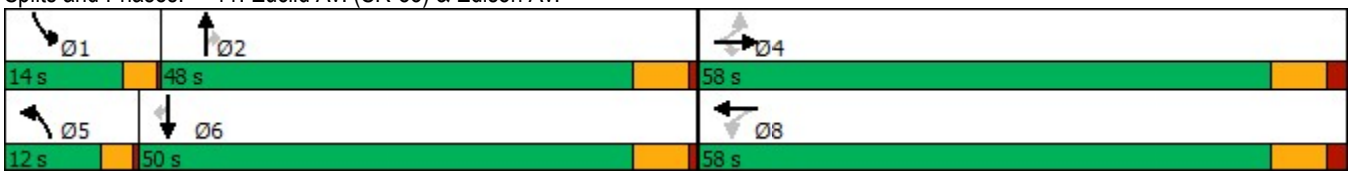
Approach	WB	NB	SB
HCM Control Delay, s	13.5	0	0
HCM LOS	B		

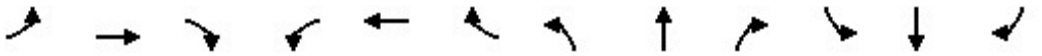
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	438	-
HCM Lane V/C Ratio	-	-	0.03	-
HCM Control Delay (s)	-	-	13.5	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0.1	-

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	227	417	200	108	511	163	1030	51	242	1528	253
Future Volume (vph)	227	417	200	108	511	163	1030	51	242	1528	253
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	58.0	58.0	58.0	58.0	58.0	12.0	48.0	48.0	14.0	50.0	50.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	10.0%	40.0%	40.0%	11.7%	41.7%	41.7%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	51.0	51.0	51.0	51.0	51.0	8.3	41.8	41.8	10.5	44.0	44.0
Actuated g/C Ratio	0.43	0.43	0.43	0.43	0.43	0.07	0.35	0.35	0.09	0.37	0.37
v/c Ratio	2.92	0.56	0.28	0.42	0.94	0.77	0.89	0.09	1.77	1.25	0.41
Control Delay	916.7	29.5	5.1	30.3	54.3	78.2	47.4	4.4	403.1	154.9	15.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	916.7	29.5	5.1	30.3	54.3	78.2	47.4	4.4	403.1	154.9	15.4
LOS	F	C	A	C	D	E	D	A	F	F	B
Approach Delay		262.4			51.1		49.6			167.1	
Approach LOS		F			D		D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.92	
Intersection Signal Delay: 135.0	Intersection LOS: F
Intersection Capacity Utilization 123.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	227	417	200	108	511	168	163	1030	51	242	1528	253
Future Volume (veh/h)	227	417	200	108	511	168	163	1030	51	242	1528	253
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	234	430	170	111	527	163	168	1062	46	249	1575	226
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	90	766	649	243	561	174	217	1193	531	142	1256	560
Arrive On Green	0.43	0.43	0.43	0.43	0.43	0.43	0.07	0.35	0.35	0.09	0.37	0.37
Sat Flow, veh/h	685	1800	1524	744	1318	408	3141	3420	1521	1619	3420	1524
Grp Volume(v), veh/h	234	430	170	111	0	690	168	1062	46	249	1575	226
Grp Sat Flow(s),veh/h/ln	685	1800	1524	744	0	1726	1570	1710	1521	1619	1710	1524
Q Serve(g_s), s	5.2	21.6	8.6	15.8	0.0	45.8	6.3	35.1	2.4	10.5	44.0	13.2
Cycle Q Clear(g_c), s	51.0	21.6	8.6	37.4	0.0	45.8	6.3	35.1	2.4	10.5	44.0	13.2
Prop In Lane	1.00		1.00	1.00		0.24	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	90	766	649	243	0	735	217	1193	531	142	1256	560
V/C Ratio(X)	2.61	0.56	0.26	0.46	0.00	0.94	0.77	0.89	0.09	1.75	1.25	0.40
Avail Cap(c_a), veh/h	90	766	649	243	0	735	223	1199	533	142	1256	560
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.0	25.9	22.2	40.1	0.0	32.9	54.8	36.8	26.2	54.6	37.9	28.1
Incr Delay (d2), s/veh	755.2	0.9	0.2	1.3	0.0	19.8	13.7	8.6	0.1	366.8	120.8	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	21.5	9.0	3.0	2.9	0.0	21.9	2.8	15.0	0.8	18.6	38.0	4.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	814.2	26.9	22.4	41.4	0.0	52.7	68.5	45.4	26.3	421.4	158.7	28.6
LnGrp LOS	F	C	C	D	A	D	E	D	C	F	F	C
Approach Vol, veh/h		834			801			1276			2050	
Approach Delay, s/veh		246.9			51.2			47.8			176.3	
Approach LOS		F			D			D			F	

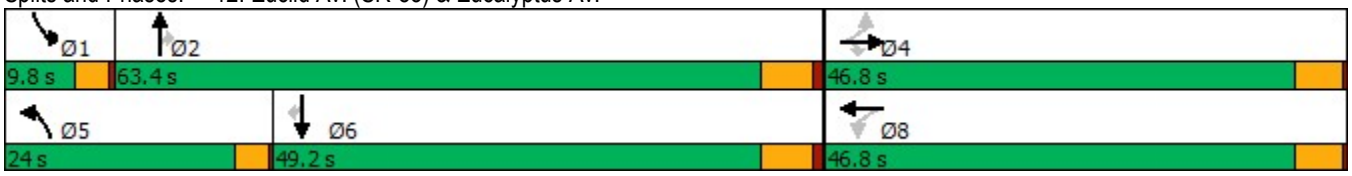
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.0	47.8		58.0	11.8	50.0		58.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	10.5	42.0		51.0	8.5	44.0		51.0				
Max Q Clear Time (g_c+I1), s	12.5	37.1		53.0	8.3	46.0		47.8				
Green Ext Time (p_c), s	0.0	2.7		0.0	0.0	0.0		1.5				

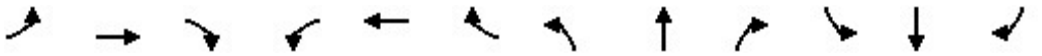
Intersection Summary			
HCM 6th Ctrl Delay		134.9	
HCM 6th LOS		F	

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	61	71	170	31	167	169	1104	17	262	1659	39
Future Volume (vph)	61	71	170	31	167	169	1104	17	262	1659	39
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	24.0	63.4	63.4	9.8	49.2	49.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	20.0%	52.8%	52.8%	8.2%	41.0%	41.0%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	21.5	21.5	21.5	21.5	21.5	14.8	52.8	52.8	6.4	44.4	44.4
Actuated g/C Ratio	0.23	0.23	0.23	0.23	0.23	0.16	0.56	0.56	0.07	0.47	0.47
v/c Ratio	0.52	0.19	0.38	0.12	0.72	0.73	0.62	0.02	2.59	1.12	0.06
Control Delay	47.1	30.1	6.6	29.5	40.5	57.0	17.8	0.1	763.0	88.3	1.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.1	30.1	6.6	29.5	40.5	57.0	17.8	0.1	763.0	88.3	1.1
LOS	D	C	A	C	D	E	B	A	F	F	A
Approach Delay		20.3			39.4		22.7			176.9	
Approach LOS		C			D		C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 95	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.59	
Intersection Signal Delay: 102.2	Intersection LOS: F
Intersection Capacity Utilization 95.0%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	61	71	170	31	167	102	169	1104	17	262	1659	39
Future Volume (veh/h)	61	71	170	31	167	102	169	1104	17	262	1659	39
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	66	76	98	33	180	104	182	1187	16	282	1784	30
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	171	443	375	312	263	152	214	1828	815	110	1608	717
Arrive On Green	0.25	0.25	0.25	0.25	0.25	0.25	0.13	0.53	0.53	0.07	0.47	0.47
Sat Flow, veh/h	995	1800	1525	1100	1070	618	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	66	76	98	33	0	284	182	1187	16	282	1784	30
Grp Sat Flow(s),veh/h/ln	995	1800	1525	1100	0	1689	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	6.0	3.1	4.8	2.3	0.0	14.1	10.2	22.9	0.5	6.3	43.5	1.0
Cycle Q Clear(g_c), s	20.1	3.1	4.8	5.3	0.0	14.1	10.2	22.9	0.5	6.3	43.5	1.0
Prop In Lane	1.00		1.00	1.00		0.37	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	171	443	375	312	0	415	214	1828	815	110	1608	717
V/C Ratio(X)	0.39	0.17	0.26	0.11	0.00	0.68	0.85	0.65	0.02	2.56	1.11	0.04
Avail Cap(c_a), veh/h	378	817	693	541	0	767	359	2133	952	110	1608	717
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.7	27.5	28.1	29.6	0.0	31.6	39.2	15.3	10.1	43.1	24.5	13.2
Incr Delay (d2), s/veh	1.1	0.1	0.3	0.1	0.0	1.5	7.3	0.6	0.0	726.7	58.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	1.3	1.7	0.6	0.0	5.6	4.2	7.4	0.1	24.6	27.7	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.8	27.6	28.4	29.7	0.0	33.1	46.6	15.9	10.1	769.8	83.2	13.3
LnGrp LOS	D	C	C	C	A	C	D	B	B	F	F	B
Approach Vol, veh/h		240			317			1385			2096	
Approach Delay, s/veh		31.8			32.7			19.9			174.6	
Approach LOS		C			C			B			F	

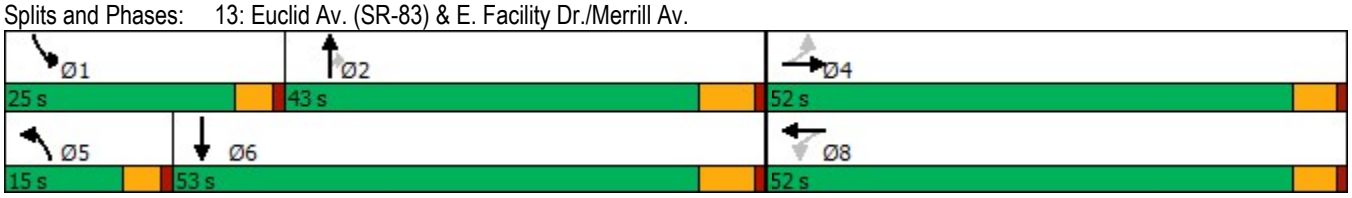
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.8	55.1		27.6	15.7	49.2		27.6				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	6.3	57.7		42.0	20.5	43.5		42.0				
Max Q Clear Time (g_c+I1), s	8.3	24.9		22.1	12.2	45.5		16.1				
Green Ext Time (p_c), s	0.0	9.0		0.7	0.2	0.0		1.3				

Intersection Summary			
HCM 6th Ctrl Delay		101.9	
HCM 6th LOS		F	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	7	5	368	55	13	1018	572	587	1172
Future Volume (vph)	7	5	368	55	13	1018	572	587	1172
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	52.0	52.0	52.0	52.0	15.0	43.0	43.0	25.0	53.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	12.5%	35.8%	35.8%	20.8%	44.2%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		47.0		47.0	10.0	37.0	37.0	20.5	56.2
Actuated g/C Ratio		0.39		0.39	0.08	0.31	0.31	0.17	0.47
v/c Ratio		0.03		1.30	0.10	1.03	1.00	2.27	0.82
Control Delay		18.8		176.7	52.9	76.0	63.3	607.0	34.2
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		18.8		176.7	52.9	76.0	63.3	607.0	34.2
LOS		B		F	D	E	E	F	C
Approach Delay		18.8		176.7		71.3			218.8
Approach LOS		B		F		E			F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.27	
Intersection Signal Delay: 153.8	Intersection LOS: F
Intersection Capacity Utilization 127.6%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	5	4	368	55	270	13	1018	572	587	1172	61
Future Volume (veh/h)	7	5	4	368	55	270	13	1018	572	587	1172	61
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	7	5	2	391	59	263	14	1083	594	624	1247	49
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	284	196	72	358	47	209	50	1054	470	277	1503	59
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.03	0.31	0.31	0.17	0.45	0.45
Sat Flow, veh/h	610	500	185	794	120	534	1619	3420	1525	1619	3355	132
Grp Volume(v), veh/h	14	0	0	713	0	0	14	1083	594	624	635	661
Grp Sat Flow(s),veh/h/ln	1295	0	0	1448	0	0	1619	1710	1525	1619	1710	1776
Q Serve(g_s), s	0.0	0.0	0.0	46.4	0.0	0.0	1.0	37.0	37.0	20.5	39.1	39.2
Cycle Q Clear(g_c), s	0.6	0.0	0.0	47.0	0.0	0.0	1.0	37.0	37.0	20.5	39.1	39.2
Prop In Lane	0.50		0.14	0.55		0.37	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	552	0	0	614	0	0	50	1055	470	277	766	796
V/C Ratio(X)	0.03	0.00	0.00	1.16	0.00	0.00	0.28	1.03	1.26	2.26	0.83	0.83
Avail Cap(c_a), veh/h	552	0	0	614	0	0	142	1055	470	277	766	796
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.4	0.0	0.0	38.2	0.0	0.0	56.8	41.5	41.5	49.7	29.1	29.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	89.9	0.0	0.0	1.1	34.8	134.5	576.7	7.6	7.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	32.9	0.0	0.0	0.4	19.6	30.5	52.2	16.2	16.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	22.4	0.0	0.0	128.1	0.0	0.0	57.9	76.3	176.0	626.4	36.7	36.5
LnGrp LOS	C	A	A	F	A	A	E	F	F	F	D	D
Approach Vol, veh/h		14			713			1691			1920	
Approach Delay, s/veh		22.4			128.1			111.2			228.3	
Approach LOS		C			F			F			F	

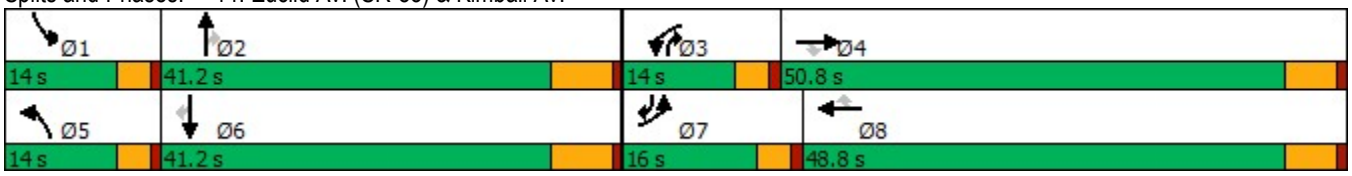
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	25.0	43.0		52.0	8.2	59.8		52.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	20.5	37.0		47.0	10.5	47.0		47.0				
Max Q Clear Time (g_c+I1), s	22.5	39.0		2.6	3.0	41.2		49.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	3.4		0.0				

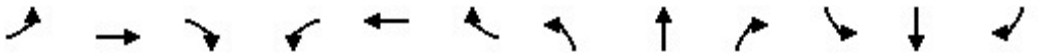
Intersection Summary			
HCM 6th Ctrl Delay		165.5	
HCM 6th LOS		F	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	169	317	61	113	1077	340	82	1104	67	198	880	424
Future Volume (vph)	169	317	61	113	1077	340	82	1104	67	198	880	424
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	47.8	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	16.0	50.8	50.8	14.0	48.8	48.8	14.0	41.2	14.0	14.0	41.2	16.0
Total Split (%)	13.3%	42.3%	42.3%	11.7%	40.7%	40.7%	11.7%	34.3%	11.7%	11.7%	34.3%	13.3%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	4.8	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	5.8	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	11.1	42.0	42.0	10.0	41.0	41.0	10.0	34.7	51.3	9.8	37.5	51.1
Actuated g/C Ratio	0.09	0.36	0.36	0.09	0.35	0.35	0.09	0.30	0.44	0.08	0.32	0.44
v/c Ratio	0.63	0.27	0.10	0.84	0.93	0.52	0.62	1.12	0.10	0.83	0.83	0.63
Control Delay	62.0	27.0	1.4	97.5	50.3	13.5	72.5	106.2	5.2	80.0	45.9	25.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	62.0	27.0	1.4	97.5	50.3	13.5	72.5	106.2	5.2	80.0	45.9	25.0
LOS	E	C	A	F	D	B	E	F	A	E	D	C
Approach Delay		34.9			45.6			98.6			44.5	
Approach LOS		C			D			F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.9	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.12	
Intersection Signal Delay: 57.8	Intersection LOS: E
Intersection Capacity Utilization 95.6%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	169	317	61	113	1077	340	82	1104	67	198	880	424
Future Volume (veh/h)	169	317	61	113	1077	340	82	1104	67	198	880	424
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	174	327	53	116	1110	173	85	1138	55	204	907	386
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	256	1202	536	139	1200	535	131	1031	591	252	1044	592
Arrive On Green	0.09	0.35	0.35	0.09	0.35	0.35	0.08	0.30	0.30	0.09	0.31	0.31
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	174	327	53	116	1110	173	85	1138	55	204	907	386
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	6.6	7.9	2.7	8.1	35.9	9.6	5.9	34.7	2.6	7.8	28.9	24.1
Cycle Q Clear(g_c), s	6.6	7.9	2.7	8.1	35.9	9.6	5.9	34.7	2.6	7.8	28.9	24.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	256	1202	536	139	1200	535	131	1031	591	252	1044	592
V/C Ratio(X)	0.68	0.27	0.10	0.84	0.93	0.32	0.65	1.10	0.09	0.81	0.87	0.65
Avail Cap(c_a), veh/h	308	1337	596	141	1277	570	141	1031	591	257	1044	592
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.0	26.8	25.1	51.8	35.9	27.4	51.3	40.2	22.4	51.8	37.8	28.6
Incr Delay (d2), s/veh	2.9	0.1	0.1	31.3	10.7	0.1	6.6	61.1	0.1	16.0	8.2	2.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.5	3.1	1.0	4.4	15.9	3.4	2.5	22.3	0.9	3.3	12.4	8.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	54.0	26.9	25.2	83.2	46.6	27.5	57.9	101.3	22.5	67.8	46.0	31.5
LnGrp LOS	D	C	C	F	D	C	E	F	C	E	D	C
Approach Vol, veh/h		554			1399			1278			1497	
Approach Delay, s/veh		35.2			47.3			95.0			45.2	
Approach LOS		D			D			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	41.2	13.9	46.3	13.3	41.7	14.0	46.2
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	10.0	34.7	10.0	45.0	10.0	34.7	12.0	43.0
Max Q Clear Time (g_c+I1), s	9.8	36.7	10.1	9.9	7.9	30.9	8.6	37.9
Green Ext Time (p_c), s	0.0	0.0	0.0	2.2	0.0	2.8	0.1	2.5

Intersection Summary	
HCM 6th Ctrl Delay	58.1
HCM 6th LOS	E

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	194	6	0	44	0	2
Future Vol, veh/h	194	6	0	44	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	211	7	0	48	0	2

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	215
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	830
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	830
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.3
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	830	-	-	-
HCM Lane V/C Ratio	0.003	-	-	-
HCM Control Delay (s)	9.3	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	184	11	3	38	6	2
Future Vol, veh/h	184	11	3	38	6	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	200	12	3	41	7	2

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	212	0	253	206
Stage 1	-	-	-	-	206	-
Stage 2	-	-	-	-	47	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1370	-	740	840
Stage 1	-	-	-	-	833	-
Stage 2	-	-	-	-	981	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1370	-	739	840
Mov Cap-2 Maneuver	-	-	-	-	736	-
Stage 1	-	-	-	-	833	-
Stage 2	-	-	-	-	979	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.6	9.8
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	760	-	-	1370	-
HCM Lane V/C Ratio	0.011	-	-	0.002	-
HCM Control Delay (s)	9.8	-	-	7.6	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	180	6	0	41	0	2
Future Vol, veh/h	180	6	0	41	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	196	7	0	45	0	2

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	200
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	846
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	846
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.3
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	846	-	-	-
HCM Lane V/C Ratio	0.003	-	-	-
HCM Control Delay (s)	9.3	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Intersection Delay, s/veh	8.1
Intersection LOS	A

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	169	13	15	38	3	1
Future Vol, veh/h	169	13	15	38	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	184	14	16	41	3	1
Number of Lanes	1	0	1	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	2
HCM Control Delay	8.2	7.7	7.5
HCM LOS	A	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2
Vol Left, %	75%	0%	100%	0%
Vol Thru, %	0%	93%	0%	100%
Vol Right, %	25%	7%	0%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	4	182	15	38
LT Vol	3	0	15	0
Through Vol	0	169	0	38
RT Vol	1	13	0	0
Lane Flow Rate	4	198	16	41
Geometry Grp	2	5	7	7
Degree of Util (X)	0.005	0.22	0.023	0.053
Departure Headway (Hd)	4.458	4.007	5.104	4.603
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	808	896	702	778
Service Time	2.458	2.029	2.83	2.329
HCM Lane V/C Ratio	0.005	0.221	0.023	0.053
HCM Control Delay	7.5	8.2	8	7.6
HCM Lane LOS	A	A	A	A
HCM 95th-tile Q	0	0.8	0.1	0.2

Intersection	
Int Delay, s/veh	3.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	1	9	12	2	12	15
Future Vol, veh/h	1	9	12	2	12	15
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	10	13	2	13	16

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	49	21	29	0	-	0
Stage 1	21	-	-	-	-	-
Stage 2	28	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	965	1062	1597	-	-	-
Stage 1	1007	-	-	-	-	-
Stage 2	1000	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	957	1062	1597	-	-	-
Mov Cap-2 Maneuver	893	-	-	-	-	-
Stage 1	999	-	-	-	-	-
Stage 2	1000	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.5	6.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1597	-	1042	-	-
HCM Lane V/C Ratio	0.008	-	0.01	-	-
HCM Control Delay (s)	7.3	-	8.5	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	2	2	4	12	17	5
Future Vol, veh/h	2	2	4	12	17	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	2	4	13	18	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	42	21	23	0	-	0
Stage 1	21	-	-	-	-	-
Stage 2	21	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	974	1062	1605	-	-	-
Stage 1	1007	-	-	-	-	-
Stage 2	1007	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	972	1062	1605	-	-	-
Mov Cap-2 Maneuver	903	-	-	-	-	-
Stage 1	1005	-	-	-	-	-
Stage 2	1007	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.7	1.8	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1605	-	976	-	-
HCM Lane V/C Ratio	0.003	-	0.004	-	-
HCM Control Delay (s)	7.2	-	8.7	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	1	3	4	16	14	5
Future Vol, veh/h	1	3	4	16	14	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	3	4	17	15	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	43	18	20	0	-	0
Stage 1	18	-	-	-	-	-
Stage 2	25	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	973	1066	1609	-	-	-
Stage 1	1010	-	-	-	-	-
Stage 2	1003	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	971	1066	1609	-	-	-
Mov Cap-2 Maneuver	902	-	-	-	-	-
Stage 1	1008	-	-	-	-	-
Stage 2	1003	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.5	1.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1609	-	1020	-	-
HCM Lane V/C Ratio	0.003	-	0.004	-	-
HCM Control Delay (s)	7.2	-	8.5	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	3	10	20	16	0
Future Vol, veh/h	0	3	10	20	16	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	3	11	22	17	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	61	17	17	0	-	0
Stage 1	17	-	-	-	-	-
Stage 2	44	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	950	1068	1613	-	-	-
Stage 1	1011	-	-	-	-	-
Stage 2	984	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	943	1068	1613	-	-	-
Mov Cap-2 Maneuver	883	-	-	-	-	-
Stage 1	1004	-	-	-	-	-
Stage 2	984	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.4	2.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1613	-	1068	-	-
HCM Lane V/C Ratio	0.007	-	0.003	-	-
HCM Control Delay (s)	7.2	-	8.4	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	12	27	31	17	2
Future Vol, veh/h	0	12	27	31	17	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	13	29	34	18	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	111	19	20	0	-	0
Stage 1	19	-	-	-	-	-
Stage 2	92	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	891	1065	1609	-	-	-
Stage 1	1009	-	-	-	-	-
Stage 2	937	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	875	1065	1609	-	-	-
Mov Cap-2 Maneuver	836	-	-	-	-	-
Stage 1	991	-	-	-	-	-
Stage 2	937	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.4	3.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1609	-	1065	-	-
HCM Lane V/C Ratio	0.018	-	0.012	-	-
HCM Control Delay (s)	7.3	-	8.4	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0	-	-

Intersection	
Intersection Delay, s/veh	130.2
Intersection LOS	F

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	701	783	58	25	4
Future Vol, veh/h	0	701	783	58	25	4
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	762	851	63	27	4
Number of Lanes	1	1	1	0	1	1

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	2	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	2	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	2	2
HCM Control Delay	84.7	172.2	11.8
HCM LOS	F	F	B

Lane	EBLn1	EBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	0%
Vol Thru, %	100%	100%	93%	0%	0%
Vol Right, %	0%	0%	7%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	0	701	841	25	4
LT Vol	0	0	0	25	0
Through Vol	0	701	783	0	0
RT Vol	0	0	58	0	4
Lane Flow Rate	0	762	914	27	4
Geometry Grp	7	7	4	7	7
Degree of Util (X)	0	1.093	1.321	0.061	0.008
Departure Headway (Hd)	5.413	5.413	5.34	8.769	7.524
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	0	678	686	411	479
Service Time	3.113	3.113	3.34	6.469	5.224
HCM Lane V/C Ratio	0	1.124	1.332	0.066	0.008
HCM Control Delay	8.1	84.7	172.2	12	10.3
HCM Lane LOS	N	F	F	B	B
HCM 95th-tile Q	0	20.8	36.3	0.2	0

Intersection	
Intersection Delay, s/veh	14.1
Intersection LOS	B

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	20	128	10	19	364	17	19	111	15	19	122	55
Future Vol, veh/h	20	128	10	19	364	17	19	111	15	19	122	55
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	22	141	11	21	400	19	21	122	16	21	134	60
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	11	17.5	11.2	11.8
HCM LOS	B	C	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	13%	5%	10%
Vol Thru, %	77%	81%	91%	62%
Vol Right, %	10%	6%	4%	28%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	145	158	400	196
LT Vol	19	20	19	19
Through Vol	111	128	364	122
RT Vol	15	10	17	55
Lane Flow Rate	159	174	440	215
Geometry Grp	1	1	1	1
Degree of Util (X)	0.263	0.275	0.645	0.343
Departure Headway (Hd)	5.952	5.707	5.282	5.731
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	599	625	681	625
Service Time	4.026	3.776	3.335	3.798
HCM Lane V/C Ratio	0.265	0.278	0.646	0.344
HCM Control Delay	11.2	11	17.5	11.8
HCM Lane LOS	B	B	C	B
HCM 95th-tile Q	1.1	1.1	4.7	1.5

Intersection	
Intersection Delay, s/veh	300.9
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	41	689	17	7	676	33	12	188	6	11	133	38
Future Vol, veh/h	41	689	17	7	676	33	12	188	6	11	133	38
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	49	830	20	8	814	40	14	227	7	13	160	46
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	390.7	355.5	28.5	26
HCM LOS	F	F	D	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	6%	5%	1%	6%
Vol Thru, %	91%	92%	94%	73%
Vol Right, %	3%	2%	5%	21%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	206	747	716	182
LT Vol	12	41	7	11
Through Vol	188	689	676	133
RT Vol	6	17	33	38
Lane Flow Rate	248	900	863	219
Geometry Grp	1	1	1	1
Degree of Util (X)	0.571	1.802	1.721	0.508
Departure Headway (Hd)	11.368	8.533	8.637	11.59
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	320	432	431	314
Service Time	9.368	6.533	6.637	9.59
HCM Lane V/C Ratio	0.775	2.083	2.002	0.697
HCM Control Delay	28.5	390.7	355.5	26
HCM Lane LOS	D	F	F	D
HCM 95th-tile Q	3.3	48.2	43.7	2.7

Intersection	
Intersection Delay, s/veh	99.7
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	44	100	34	33	283	58	43	401	10	34	469	63
Future Vol, veh/h	44	100	34	33	283	58	43	401	10	34	469	63
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	46	104	35	34	295	60	45	418	10	35	489	66
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	22.1	49.2	84.9	169.4
HCM LOS	C	E	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	9%	25%	9%	6%
Vol Thru, %	88%	56%	76%	83%
Vol Right, %	2%	19%	16%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	454	178	374	566
LT Vol	43	44	33	34
Through Vol	401	100	283	469
RT Vol	10	34	58	63
Lane Flow Rate	473	185	390	590
Geometry Grp	1	1	1	1
Degree of Util (X)	1.041	0.474	0.873	1.286
Departure Headway (Hd)	8.597	10.199	8.941	8.089
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	426	356	409	454
Service Time	6.597	8.199	6.941	6.089
HCM Lane V/C Ratio	1.11	0.52	0.954	1.3
HCM Control Delay	84.9	22.1	49.2	169.4
HCM Lane LOS	F	C	E	F
HCM 95th-tile Q	13.9	2.4	8.7	24.6

Intersection	
Intersection Delay, s/veh	393.4
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	60	271	406	79	512	65	156	309	20	44	471	42
Future Vol, veh/h	60	271	406	79	512	65	156	309	20	44	471	42
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	64	288	432	84	545	69	166	329	21	47	501	45
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	507.7	437.2	244.7	320
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	32%	8%	12%	8%
Vol Thru, %	64%	37%	78%	85%
Vol Right, %	4%	55%	10%	8%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	485	737	656	557
LT Vol	156	60	79	44
Through Vol	309	271	512	471
RT Vol	20	406	65	42
Lane Flow Rate	516	784	698	593
Geometry Grp	1	1	1	1
Degree of Util (X)	1.381	2.022	1.854	1.575
Departure Headway (Hd)	18.565	15.644	16.647	17.307
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	201	243	223	219
Service Time	16.565	13.644	14.647	15.307
HCM Lane V/C Ratio	2.567	3.226	3.13	2.708
HCM Control Delay	244.7	507.7	437.2	320
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	15.7	34.5	28.4	20.8

Intersection	
Intersection Delay, s/veh	451.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	33	483	77	259	621	143	34	158	96	186	249	43
Future Vol, veh/h	33	483	77	259	621	143	34	158	96	186	249	43
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	34	503	80	270	647	149	35	165	100	194	259	45
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

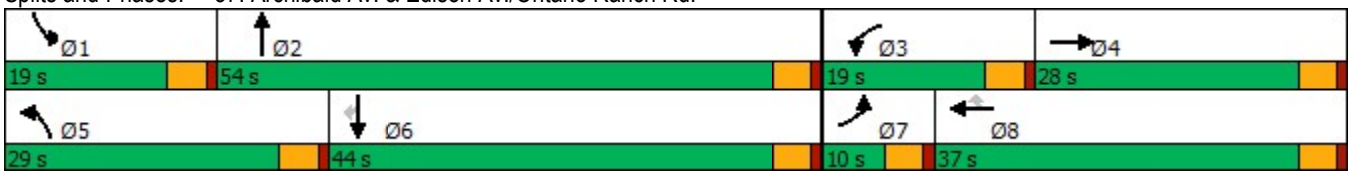
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	294.3	779.3	63.1	180.3
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	12%	6%	25%	39%
Vol Thru, %	55%	81%	61%	52%
Vol Right, %	33%	13%	14%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	288	593	1023	478
LT Vol	34	33	259	186
Through Vol	158	483	621	249
RT Vol	96	77	143	43
Lane Flow Rate	300	618	1066	498
Geometry Grp	1	1	1	1
Degree of Util (X)	0.779	1.537	2.661	1.251
Departure Headway (Hd)	17.336	14.187	11.245	14.449
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	213	266	341	259
Service Time	15.336	12.187	9.245	12.449
HCM Lane V/C Ratio	1.408	2.323	3.126	1.923
HCM Control Delay	63.1	294.3	779.3	180.3
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	5.4	23.3	71	15.4

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	91	292	75	549	852	117	190	1260	397	99	870	262
Future Volume (vph)	91	292	75	549	852	117	190	1260	397	99	870	262
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	44.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	36.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	5.5	23.6	116.1	14.5	32.6	32.6	19.5	47.8	116.1	12.1	40.4	40.4
Actuated g/C Ratio	0.05	0.20	1.00	0.12	0.28	0.28	0.17	0.41	1.00	0.10	0.35	0.35
v/c Ratio	0.69	0.44	0.05	1.59	1.85	0.25	0.77	0.93	0.29	0.65	0.76	0.45
Control Delay	80.3	43.5	0.1	309.7	419.0	6.3	65.4	45.4	0.5	68.5	38.9	14.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	80.3	43.5	0.1	309.7	419.0	6.3	65.4	45.4	0.5	68.5	38.9	14.1
LOS	F	D	A	F	F	A	E	D	A	E	D	B
Approach Delay		43.7			347.5			37.8			36.0	
Approach LOS		D			F			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.85	
Intersection Signal Delay: 130.9	Intersection LOS: F
Intersection Capacity Utilization 109.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	91	292	75	549	852	117	190	1260	397	99	870	262
Future Volume (veh/h)	91	292	75	549	852	117	190	1260	397	99	870	262
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	100	321	0	603	936	106	209	1385	0	109	956	277
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	146	750		394	522	436	238	1511		133	1277	529
Arrive On Green	0.05	0.21	0.00	0.13	0.29	0.29	0.15	0.42	0.00	0.08	0.35	0.35
Sat Flow, veh/h	3048	3600	1525	3048	1800	1506	1619	3600	1525	1619	3600	1492
Grp Volume(v), veh/h	100	321	0	603	936	106	209	1385	0	109	956	277
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1506	1619	1800	1525	1619	1800	1492
Q Serve(g_s), s	3.6	8.7	0.0	14.5	32.5	6.0	14.2	40.7	0.0	7.4	26.2	16.5
Cycle Q Clear(g_c), s	3.6	8.7	0.0	14.5	32.5	6.0	14.2	40.7	0.0	7.4	26.2	16.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	146	750		394	522	436	238	1511		133	1277	529
V/C Ratio(X)	0.68	0.43		1.53	1.79	0.24	0.88	0.92		0.82	0.75	0.52
Avail Cap(c_a), veh/h	149	754		394	522	436	354	1589		209	1277	529
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.6	38.6	0.0	48.8	39.8	30.4	46.9	30.7	0.0	50.7	31.8	28.7
Incr Delay (d2), s/veh	11.9	0.4	0.0	251.2	365.2	0.3	15.3	8.5	0.0	13.2	2.5	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	3.7	0.0	19.0	66.4	2.1	6.4	17.6	0.0	3.4	10.9	5.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	64.5	39.0	0.0	300.1	405.0	30.7	62.2	39.2	0.0	63.9	34.3	29.6
LnGrp LOS	E	D		F	F	C	E	D		E	C	C
Approach Vol, veh/h		421	A		1645			1594	A		1342	
Approach Delay, s/veh		45.0			342.4			42.2			35.7	
Approach LOS		D			F			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.7	51.6	19.0	27.9	21.0	44.3	9.9	37.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	9.4	42.7	16.5	10.7	16.2	28.2	5.6	34.5
Green Ext Time (p_c), s	0.1	4.4	0.0	1.4	0.3	5.1	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	139.4
HCM 6th LOS	F

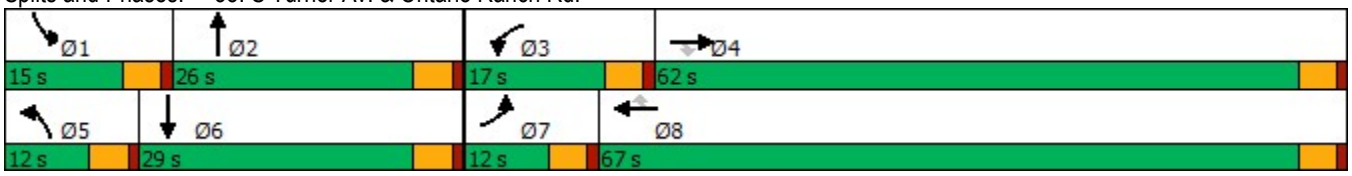
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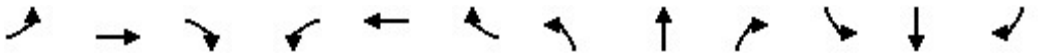
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	44	749	17	57	1523	26	37	142	59	70
Future Volume (vph)	44	749	17	57	1523	26	37	142	59	70
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	26.0	15.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	21.7%	12.5%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.7	53.0	53.0	9.6	54.9	54.9	7.6	16.6	9.3	20.4
Actuated g/C Ratio	0.08	0.53	0.53	0.10	0.55	0.55	0.08	0.17	0.09	0.20
v/c Ratio	0.36	0.44	0.02	0.36	0.86	0.03	0.30	0.64	0.40	0.34
Control Delay	60.2	17.7	0.1	56.1	27.1	0.1	58.7	52.4	58.1	36.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	60.2	17.7	0.1	56.1	27.1	0.1	58.7	52.4	58.1	36.0
LOS	E	B	A	E	C	A	E	D	E	D
Approach Delay		19.6			27.7			53.4		43.4
Approach LOS		B			C			D		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 100.2	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.86	
Intersection Signal Delay: 28.3	Intersection LOS: C
Intersection Capacity Utilization 72.6%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	44	749	17	57	1523	26	37	142	38	59	70	47
Future Volume (veh/h)	44	749	17	57	1523	26	37	142	38	59	70	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	49	832	19	63	1692	29	41	158	42	66	78	52
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	72	2041	910	82	2061	919	65	197	52	86	157	105
Arrive On Green	0.04	0.57	0.57	0.05	0.57	0.57	0.04	0.14	0.14	0.05	0.15	0.15
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	1446	384	1810	1063	709
Grp Volume(v), veh/h	49	832	19	63	1692	29	41	0	200	66	0	130
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1831	1810	0	1772
Q Serve(g_s), s	2.3	11.4	0.5	3.0	33.1	0.7	2.0	0.0	9.3	3.2	0.0	5.9
Cycle Q Clear(g_c), s	2.3	11.4	0.5	3.0	33.1	0.7	2.0	0.0	9.3	3.2	0.0	5.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.21	1.00		0.40
Lane Grp Cap(c), veh/h	72	2041	910	82	2061	919	65	0	249	86	0	262
V/C Ratio(X)	0.68	0.41	0.02	0.77	0.82	0.03	0.63	0.00	0.80	0.77	0.00	0.50
Avail Cap(c_a), veh/h	155	2370	1057	258	2576	1149	155	0	449	217	0	496
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	41.5	10.7	8.4	41.3	15.2	8.2	41.6	0.0	36.7	41.2	0.0	34.3
Incr Delay (d2), s/veh	10.7	0.1	0.0	13.8	1.8	0.0	9.6	0.0	5.9	13.3	0.0	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	3.8	0.1	1.6	11.5	0.2	1.0	0.0	4.3	1.7	0.0	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	52.2	10.9	8.4	55.1	17.0	8.2	51.2	0.0	42.6	54.5	0.0	35.8
LnGrp LOS	D	B	A	E	B	A	D	A	D	D	A	D
Approach Vol, veh/h		900			1784			241			196	
Approach Delay, s/veh		13.1			18.2			44.1			42.1	
Approach LOS		B			B			D			D	

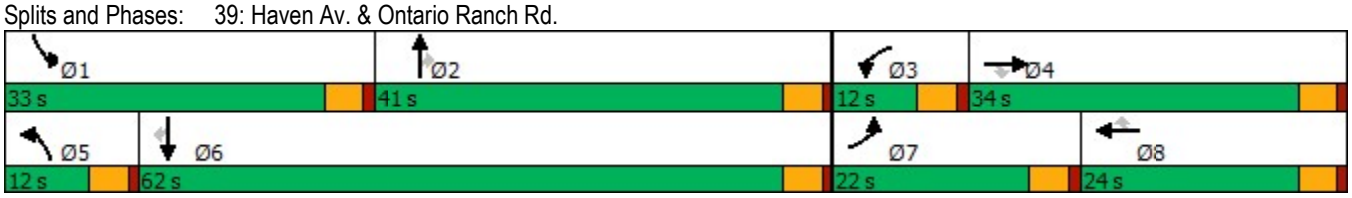
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.7	16.4	8.5	54.0	7.7	17.4	8.0	54.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	10.5	21.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	5.2	11.3	5.0	13.4	4.0	7.9	4.3	35.1
Green Ext Time (p_c), s	0.0	0.7	0.1	6.2	0.0	0.5	0.0	14.9

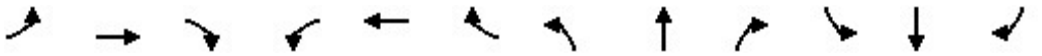
Intersection Summary	
HCM 6th Ctrl Delay	20.2
HCM 6th LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	139	824	19	82	1298	167	40	318	125	215	203	90
Future Volume (vph)	139	824	19	82	1298	167	40	318	125	215	203	90
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	22.0	34.0	34.0	12.0	24.0	24.0	12.0	41.0	41.0	33.0	62.0	62.0
Total Split (%)	18.3%	28.3%	28.3%	10.0%	20.0%	20.0%	10.0%	34.2%	34.2%	27.5%	51.7%	51.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	13.6	29.3	29.3	7.3	20.2	20.2	7.0	23.9	23.9	19.0	41.1	41.1
Actuated g/C Ratio	0.14	0.31	0.31	0.08	0.21	0.21	0.07	0.25	0.25	0.20	0.43	0.43
v/c Ratio	0.65	0.59	0.04	0.39	1.06	0.39	0.36	0.76	0.26	0.72	0.28	0.13
Control Delay	55.5	33.1	0.1	52.8	82.4	9.1	57.2	45.6	3.0	50.7	19.7	1.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.5	33.1	0.1	52.8	82.4	9.1	57.2	45.6	3.0	50.7	19.7	1.5
LOS	E	C	A	D	F	A	E	D	A	D	B	A
Approach Delay		35.6			72.9			35.6			29.6	
Approach LOS		D			E			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 95.3	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.06	
Intersection Signal Delay: 51.1	Intersection LOS: D
Intersection Capacity Utilization 74.4%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	139	824	19	82	1298	167	40	318	125	215	203	90
Future Volume (veh/h)	139	824	19	82	1298	167	40	318	125	215	203	90
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	149	886	9	88	1396	128	43	342	83	231	218	74
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	184	1522	472	163	1554	383	63	418	354	275	653	551
Arrive On Green	0.11	0.31	0.31	0.05	0.25	0.25	0.04	0.23	0.23	0.17	0.36	0.36
Sat Flow, veh/h	1619	4914	1524	2956	6192	1525	1619	1800	1523	1619	1800	1519
Grp Volume(v), veh/h	149	886	9	88	1396	128	43	342	83	231	218	74
Grp Sat Flow(s),veh/h/ln	1619	1638	1524	1478	1548	1525	1619	1800	1523	1619	1800	1519
Q Serve(g_s), s	6.9	11.7	0.3	2.2	16.8	5.3	2.0	13.9	3.4	10.7	6.8	2.5
Cycle Q Clear(g_c), s	6.9	11.7	0.3	2.2	16.8	5.3	2.0	13.9	3.4	10.7	6.8	2.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	184	1522	472	163	1554	383	63	418	354	275	653	551
V/C Ratio(X)	0.81	0.58	0.02	0.54	0.90	0.33	0.68	0.82	0.23	0.84	0.33	0.13
Avail Cap(c_a), veh/h	367	1880	583	287	1566	386	157	852	721	598	1342	1133
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.4	22.4	18.5	35.5	27.9	23.6	36.6	28.1	24.0	31.0	17.8	16.5
Incr Delay (d2), s/veh	8.2	0.4	0.0	2.8	7.3	0.5	12.1	4.0	0.3	6.8	0.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	4.0	0.1	0.8	6.2	1.7	1.0	5.9	1.1	4.3	2.6	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.6	22.8	18.5	38.3	35.2	24.1	48.7	32.1	24.4	37.8	18.1	16.6
LnGrp LOS	D	C	B	D	D	C	D	C	C	D	B	B
Approach Vol, veh/h		1044			1612			468			523	
Approach Delay, s/veh		25.4			34.5			32.2			26.6	
Approach LOS		C			C			C			C	

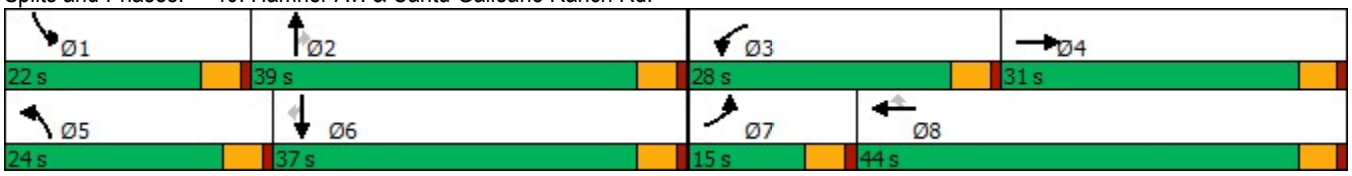
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.6	22.4	8.7	28.4	7.5	32.5	13.3	23.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	36.5	7.5	29.5	7.5	57.5	17.5	19.5
Max Q Clear Time (g_c+I1), s	12.7	15.9	4.2	13.7	4.0	8.8	8.9	18.8
Green Ext Time (p_c), s	0.5	2.0	0.1	4.9	0.0	1.4	0.2	0.5

Intersection Summary	
HCM 6th Ctrl Delay	30.5
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	161	847	265	1418	269	173	652	342	187	205	107
Future Volume (vph)	161	847	265	1418	269	173	652	342	187	205	107
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	28.0	44.0	44.0	24.0	39.0	39.0	22.0	37.0	37.0
Total Split (%)	12.5%	25.8%	23.3%	36.7%	36.7%	20.0%	32.5%	32.5%	18.3%	30.8%	30.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	9.4	36.1	13.2	39.8	39.8	10.5	20.8	20.8	10.9	21.2	21.2
Actuated g/C Ratio	0.09	0.36	0.13	0.40	0.40	0.11	0.21	0.21	0.11	0.21	0.21
v/c Ratio	0.50	0.41	0.59	1.02	0.37	0.49	0.62	0.59	0.51	0.28	0.25
Control Delay	49.6	25.3	46.8	60.0	10.4	47.4	38.3	9.1	47.3	33.5	4.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	49.6	25.3	46.8	60.0	10.4	47.4	38.3	9.1	47.3	33.5	4.7
LOS	D	C	D	E	B	D	D	A	D	C	A
Approach Delay		28.9		51.3			31.1			32.6	
Approach LOS		C		D			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 99.1	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.02	
Intersection Signal Delay: 39.1	Intersection LOS: D
Intersection Capacity Utilization 76.7%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	161	847	79	265	1418	269	173	652	342	187	205	107
Future Volume (veh/h)	161	847	79	265	1418	269	173	652	342	187	205	107
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	168	882	26	276	1477	214	180	679	273	195	214	70
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	243	2560	75	371	1537	686	265	1196	371	280	848	378
Arrive On Green	0.07	0.39	0.39	0.11	0.43	0.43	0.08	0.23	0.23	0.08	0.23	0.23
Sat Flow, veh/h	3510	6574	193	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	168	657	251	276	1477	214	180	679	273	195	214	70
Grp Sat Flow(s),veh/h/ln	1755	1634	1865	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	4.3	8.7	8.8	7.1	36.8	8.1	4.6	10.7	14.5	5.0	4.5	3.2
Cycle Q Clear(g_c), s	4.3	8.7	8.8	7.1	36.8	8.1	4.6	10.7	14.5	5.0	4.5	3.2
Prop In Lane	1.00		0.10	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	243	1909	726	371	1537	686	265	1196	371	280	848	378
V/C Ratio(X)	0.69	0.34	0.35	0.74	0.96	0.31	0.68	0.57	0.74	0.70	0.25	0.19
Avail Cap(c_a), veh/h	399	1909	726	892	1542	688	740	1935	601	664	1269	566
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.1	19.9	19.9	40.1	25.8	17.6	41.7	31.5	33.0	41.5	28.8	28.3
Incr Delay (d2), s/veh	3.5	0.1	0.3	3.0	14.6	0.3	3.1	0.4	2.8	3.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	3.0	3.4	3.0	16.5	2.7	2.0	4.2	5.5	2.2	1.8	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	45.5	20.0	20.2	43.1	40.4	17.8	44.7	31.9	35.8	44.6	28.9	28.5
LnGrp LOS	D	C	C	D	D	B	D	C	D	D	C	C
Approach Vol, veh/h		1076			1967			1132			479	
Approach Delay, s/veh		24.0			38.4			34.9			35.2	
Approach LOS		C			D			C			D	

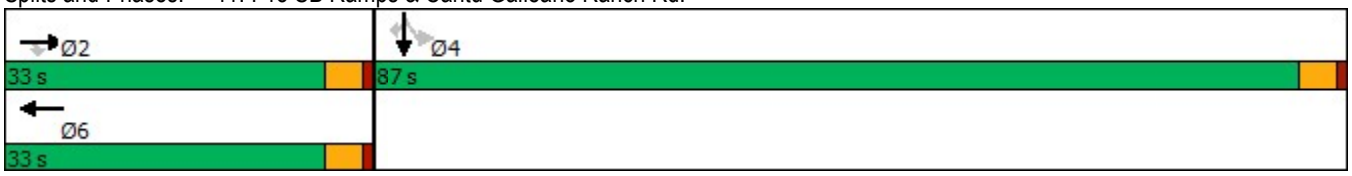
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.9	25.8	14.3	40.5	11.5	26.2	10.9	43.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	34.5	23.5	26.5	19.5	32.5	10.5	39.5
Max Q Clear Time (g_c+I1), s	7.0	16.5	9.1	10.8	6.6	6.5	6.3	38.8
Green Ext Time (p_c), s	0.4	4.8	0.7	4.6	0.4	1.4	0.2	0.6

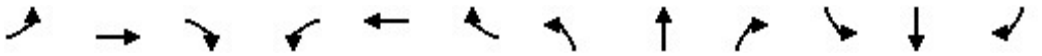
Intersection Summary	
HCM 6th Ctrl Delay	33.9
HCM 6th LOS	C

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	1099	347	810	189	293	0	1685
Future Volume (vph)	1099	347	810	189	293	0	1685
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	33.0	33.0	33.0		87.0	87.0	87.0
Total Split (%)	27.5%	27.5%	27.5%		72.5%	72.5%	72.5%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	28.7	28.7	28.7	115.5	77.7	77.7	77.7
Actuated g/C Ratio	0.25	0.25	0.25	1.00	0.67	0.67	0.67
v/c Ratio	0.94	0.56	0.99	0.07	0.25	0.94	0.91
Control Delay	57.7	7.7	72.8	0.0	7.9	35.0	30.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.7	7.7	72.8	0.0	7.9	35.0	30.0
LOS	E	A	E	A	A	D	C
Approach Delay	45.7		59.0			29.2	
Approach LOS	D		E			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 115.5	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.99	
Intersection Signal Delay: 41.3	Intersection LOS: D
Intersection Capacity Utilization 99.4%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	1099	347	0	810	189	0	0	0	293	0	1685
Future Volume (veh/h)	0	1099	347	0	810	189	0	0	0	293	0	1685
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	1208	0	0	890	0				215	0	1645
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1535		0	1068					1075	0	1913
Arrive On Green	0.00	0.30	0.00	0.00	0.30	0.00				0.59	0.00	0.59
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	1208	0	0	890	0				215	0	1645
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	17.5	0.0	0.0	18.8	0.0				4.5	0.0	34.7
Cycle Q Clear(g_c), s	0.0	17.5	0.0	0.0	18.8	0.0				4.5	0.0	34.7
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1535		0	1068					1075	0	1913
V/C Ratio(X)	0.00	0.79		0.00	0.83					0.20	0.00	0.86
Avail Cap(c_a), veh/h	0	1807		0	1258					1825	0	3248
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	26.4	0.0	0.0	26.9	0.0				7.7	0.0	13.8
Incr Delay (d2), s/veh	0.0	2.0	0.0	0.0	4.3	0.0				0.1	0.0	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	6.6	0.0	0.0	7.7	0.0				1.4	0.0	9.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	28.5	0.0	0.0	31.2	0.0				7.7	0.0	15.1
LnGrp LOS	A	C		A	C					A	A	B
Approach Vol, veh/h		1208	A		890	A					1860	
Approach Delay, s/veh		28.5			31.2						14.2	
Approach LOS		C			C						B	

Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		28.7		53.1		28.7						
Change Period (Y+Rc), s		4.5		4.5		4.5						
Max Green Setting (Gmax), s		28.5		82.5		28.5						
Max Q Clear Time (g_c+I1), s		19.5		36.7		20.8						
Green Ext Time (p_c), s		4.7		11.9		3.2						

Intersection Summary		
HCM 6th Ctrl Delay		22.4
HCM 6th LOS		C

Notes

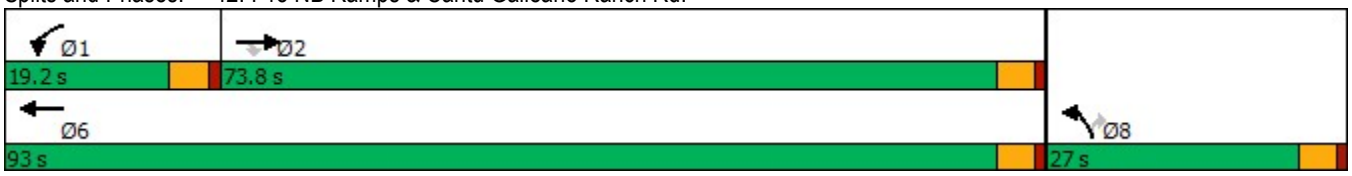
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	464	929	214	486	513	416
Future Volume (vph)	464	929	214	486	513	416
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	73.8	73.8	19.2	93.0	27.0	27.0
Total Split (%)	61.5%	61.5%	16.0%	77.5%	22.5%	22.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	32.0	32.0	10.7	47.6	22.1	22.1
Actuated g/C Ratio	0.40	0.40	0.13	0.60	0.28	0.28
v/c Ratio	0.23	0.89	0.46	0.16	0.67	0.48
Control Delay	14.4	16.3	40.3	6.4	33.0	7.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	14.4	16.3	40.3	6.4	33.0	7.5
LOS	B	B	D	A	C	A
Approach Delay	15.6			16.7	25.0	
Approach LOS	B			B	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 79.6	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.89	
Intersection Signal Delay: 18.8	Intersection LOS: B
Intersection Capacity Utilization 71.1%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	464	929	214	486	513	416
Future Volume (veh/h)	464	929	214	486	513	416
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	473	685	218	496	590	298
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	2542	789	324	3342	838	373
Arrive On Green	0.49	0.49	0.09	0.64	0.23	0.23
Sat Flow, veh/h	5358	1610	3510	5358	3619	1610
Grp Volume(v), veh/h	473	685	218	496	590	298
Grp Sat Flow(s),veh/h/ln	1729	1610	1755	1729	1810	1610
Q Serve(g_s), s	3.7	27.4	4.4	2.7	10.9	12.7
Cycle Q Clear(g_c), s	3.7	27.4	4.4	2.7	10.9	12.7
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	2542	789	324	3342	838	373
V/C Ratio(X)	0.19	0.87	0.67	0.15	0.70	0.80
Avail Cap(c_a), veh/h	4955	1538	711	6328	1122	499
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.4	16.4	31.9	5.1	25.6	26.3
Incr Delay (d2), s/veh	0.0	3.1	2.4	0.0	1.3	6.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	8.1	1.8	0.6	4.3	5.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	10.4	19.5	34.3	5.1	26.9	32.8
LnGrp LOS	B	B	C	A	C	C
Approach Vol, veh/h	1158			714	888	
Approach Delay, s/veh	15.8			14.0	28.9	
Approach LOS	B			B	C	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	11.2	40.1				51.2	21.3
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	14.7	69.3				88.5	22.5
Max Q Clear Time (g_c+I1), s	6.4	29.4				4.7	14.7
Green Ext Time (p_c), s	0.4	6.2				3.1	2.1

Intersection Summary	
HCM 6th Ctrl Delay	19.5
HCM 6th LOS	B

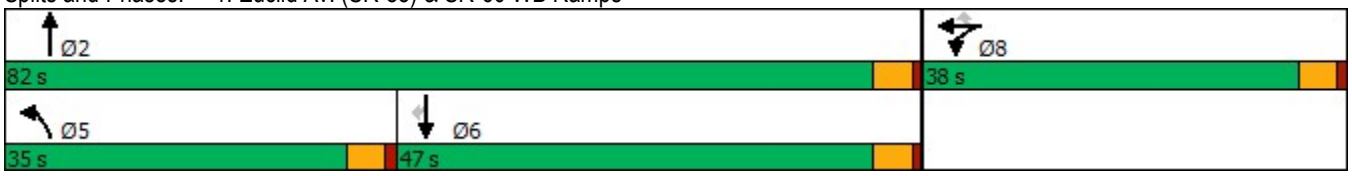
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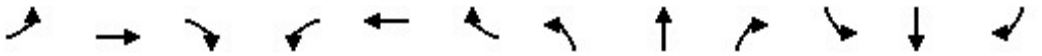
User approved volume balancing among the lanes for turning movement.

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	778	7	383	929	996	942	484
Future Volume (vph)	778	7	383	929	996	942	484
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	38.0	38.0	38.0	35.0	82.0	47.0	47.0
Total Split (%)	31.7%	31.7%	31.7%	29.2%	68.3%	39.2%	39.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	Min	Min	Min
Act Effct Green (s)	32.1	32.1	32.1	30.7	73.7	38.5	38.5
Actuated g/C Ratio	0.28	0.28	0.28	0.27	0.64	0.34	0.34
v/c Ratio	0.88	0.91	0.67	1.97	0.44	0.79	0.57
Control Delay	60.9	66.2	29.4	469.4	11.1	40.2	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Total Delay	60.9	66.2	29.4	469.4	11.7	40.2	5.2
LOS	E	E	C	F	B	D	A
Approach Delay		53.5			232.6	28.3	
Approach LOS		D			F	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 114.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.97	
Intersection Signal Delay: 121.8	Intersection LOS: F
Intersection Capacity Utilization 118.3%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	778	7	383	929	996	0	0	942	484
Future Volume (veh/h)	0	0	0	778	7	383	929	996	0	0	942	484
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				872	0	164	948	1016	0	0	961	304
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				981	0	436	510	2331	0	0	1164	519
Arrive On Green				0.27	0.00	0.27	0.28	0.65	0.00	0.00	0.32	0.32
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				872	0	164	948	1016	0	0	961	304
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				25.1	0.0	8.9	30.5	15.0	0.0	0.0	26.6	17.1
Cycle Q Clear(g_c), s				25.1	0.0	8.9	30.5	15.0	0.0	0.0	26.6	17.1
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				981	0	436	510	2331	0	0	1164	519
V/C Ratio(X)				0.89	0.00	0.38	1.86	0.44	0.00	0.00	0.83	0.59
Avail Cap(c_a), veh/h				1120	0	498	510	2584	0	0	1417	632
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				37.9	0.0	32.0	38.9	9.5	0.0	0.0	33.9	30.6
Incr Delay (d2), s/veh				8.2	0.0	0.5	394.3	0.1	0.0	0.0	3.5	1.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				11.7	0.0	3.4	68.8	5.2	0.0	0.0	11.7	6.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				46.1	0.0	32.6	433.2	9.6	0.0	0.0	37.3	31.7
LnGrp LOS				D	A	C	F	A	A	A	D	C
Approach Vol, veh/h					1036			1964			1265	
Approach Delay, s/veh					44.0			214.1			36.0	
Approach LOS					D			F			D	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	74.4		35.0	39.4		33.8						
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5						
Max Green Setting (Gmax), s	77.5		30.5	42.5		33.5						
Max Q Clear Time (g_c+I1), s	17.0		32.5	28.6		27.1						
Green Ext Time (p_c), s	8.7		0.0	6.3		2.3						

Intersection Summary		
HCM 6th Ctrl Delay	119.9	
HCM 6th LOS	F	

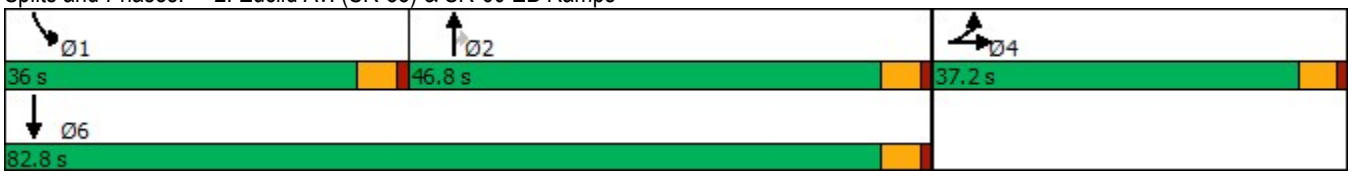
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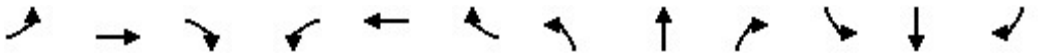
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	305	6	1618	695	372	1348
Future Volume (vph)	305	6	1618	695	372	1348
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	Min	Min	None	Min
Act Effct Green (s)	32.7	32.7	42.3	42.3	28.4	75.3
Actuated g/C Ratio	0.28	0.28	0.36	0.36	0.24	0.64
v/c Ratio	0.60	1.29	1.29	0.87	0.89	0.60
Control Delay	43.2	176.5	169.2	27.7	65.5	13.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	2.0
Total Delay	43.2	176.5	169.2	27.7	65.5	15.5
LOS	D	F	F	C	E	B
Approach Delay		134.0	126.7			26.3
Approach LOS		F	F			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 117	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.29	
Intersection Signal Delay: 92.7	Intersection LOS: F
Intersection Capacity Utilization 118.3%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	305	6	551	0	0	0	0	1618	695	372	1348	0
Future Volume (veh/h)	305	6	551	0	0	0	0	1618	695	372	1348	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	318	6	500				0	1685	597	388	1404	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	513	5	452				0	1325	575	420	2304	0
Arrive On Green	0.28	0.28	0.28				0.00	0.37	0.37	0.23	0.64	0.00
Sat Flow, veh/h	1810	19	1594				0	3705	1568	1810	3705	0
Grp Volume(v), veh/h	318	0	506				0	1685	597	388	1404	0
Grp Sat Flow(s),veh/h/ln	1810	0	1613				0	1805	1568	1810	1805	0
Q Serve(g_s), s	17.6	0.0	32.7				0.0	42.3	42.3	24.2	26.5	0.0
Cycle Q Clear(g_c), s	17.6	0.0	32.7				0.0	42.3	42.3	24.2	26.5	0.0
Prop In Lane	1.00		0.99				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	513	0	458				0	1325	575	420	2304	0
V/C Ratio(X)	0.62	0.00	1.11				0.00	1.27	1.04	0.92	0.61	0.00
Avail Cap(c_a), veh/h	513	0	458				0	1325	575	495	2453	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	35.9	0.0	41.3				0.0	36.5	36.5	43.3	12.3	0.0
Incr Delay (d2), s/veh	2.3	0.0	74.0				0.0	128.3	47.6	21.2	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.8	0.0	21.8				0.0	41.3	23.0	13.0	9.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	38.1	0.0	115.2				0.0	164.8	84.1	64.5	12.7	0.0
LnGrp LOS	D	A	F				A	F	F	E	B	A
Approach Vol, veh/h		824						2282			1792	
Approach Delay, s/veh		85.5						143.7			23.9	
Approach LOS		F						F			C	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	31.3	46.8		37.2		78.1
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	26.2	44.3		34.7		28.5
Green Ext Time (p_c), s	0.6	0.0		0.0		14.4

Intersection Summary	
HCM 6th Ctrl Delay	90.1
HCM 6th LOS	F

Notes

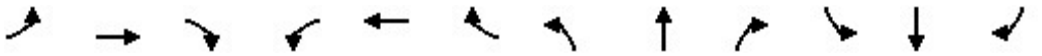
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	127	521	82	241	150	1917	89	278	1450	130
Future Volume (vph)	127	521	82	241	150	1917	89	278	1450	130
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	20.0	33.7	17.3	31.0	23.0	51.7	51.7	17.3	46.0	46.0
Total Split (%)	16.7%	28.1%	14.4%	25.8%	19.2%	43.1%	43.1%	14.4%	38.3%	38.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	13.4	28.1	10.6	22.6	15.3	47.5	47.5	12.9	45.1	45.1
Actuated g/C Ratio	0.12	0.25	0.09	0.20	0.13	0.41	0.41	0.11	0.39	0.39
v/c Ratio	0.71	0.89	0.58	0.58	0.73	0.99	0.14	0.89	0.79	0.20
Control Delay	70.6	53.7	66.8	33.2	68.5	52.3	5.1	79.1	36.2	5.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.6	53.7	66.8	33.2	68.5	52.3	5.1	79.1	36.2	5.4
LOS	E	D	E	C	E	D	A	E	D	A
Approach Delay		56.3		39.0		51.5			40.5	
Approach LOS		E		D		D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 114.5	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.99	
Intersection Signal Delay: 47.3	Intersection LOS: D
Intersection Capacity Utilization 89.9%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	127	521	182	82	241	155	150	1917	89	278	1450	130
Future Volume (veh/h)	127	521	182	82	241	155	150	1917	89	278	1450	130
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	134	548	161	86	254	122	158	2018	85	293	1526	99
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	160	617	181	107	461	215	185	2074	643	338	2075	644
Arrive On Green	0.10	0.24	0.24	0.07	0.20	0.20	0.11	0.42	0.42	0.11	0.42	0.42
Sat Flow, veh/h	1619	2609	764	1619	2263	1054	1619	4914	1524	2956	4914	1524
Grp Volume(v), veh/h	134	358	351	86	190	186	158	2018	85	293	1526	99
Grp Sat Flow(s),veh/h/ln	1619	1710	1663	1619	1710	1607	1619	1638	1524	1478	1638	1524
Q Serve(g_s), s	9.1	22.6	22.8	5.9	11.1	11.7	10.7	45.0	3.8	10.9	29.1	4.5
Cycle Q Clear(g_c), s	9.1	22.6	22.8	5.9	11.1	11.7	10.7	45.0	3.8	10.9	29.1	4.5
Prop In Lane	1.00		0.46	1.00		0.66	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	160	404	393	107	348	327	185	2074	643	338	2075	644
V/C Ratio(X)	0.84	0.89	0.89	0.81	0.55	0.57	0.85	0.97	0.13	0.87	0.74	0.15
Avail Cap(c_a), veh/h	224	447	434	185	405	381	268	2075	644	338	2075	644
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.5	41.2	41.3	51.5	39.9	40.1	48.6	31.7	19.8	48.6	27.1	20.0
Incr Delay (d2), s/veh	17.4	17.8	19.0	13.1	1.3	1.6	16.1	13.9	0.1	20.2	1.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.3	11.1	11.0	2.7	4.7	4.6	5.1	19.3	1.3	4.9	11.0	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	66.9	59.1	60.2	64.6	41.2	41.6	64.7	45.6	19.9	68.9	28.5	20.1
LnGrp LOS	E	E	E	E	D	D	E	D	B	E	C	C
Approach Vol, veh/h		843			462			2261			1918	
Approach Delay, s/veh		60.8			45.7			46.0			34.2	
Approach LOS		E			D			D			C	

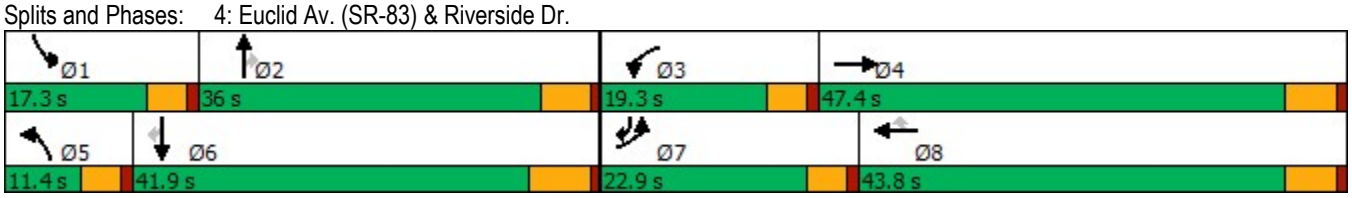
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.3	51.7	11.9	30.9	17.3	51.7	15.5	27.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	12.8	47.2	12.8	29.2	18.5	41.5	15.5	26.5
Max Q Clear Time (g_c+I1), s	12.9	47.0	7.9	24.8	12.7	31.1	11.1	13.7
Green Ext Time (p_c), s	0.0	0.2	0.1	1.6	0.2	7.0	0.1	1.6

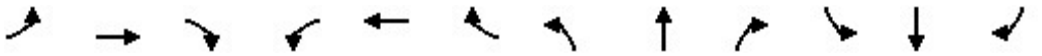
Intersection Summary	
HCM 6th Ctrl Delay	44.1
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	144	515	168	408	75	139	1850	185	114	1321	169
Future Volume (vph)	144	515	168	408	75	139	1850	185	114	1321	169
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	22.9	47.4	19.3	43.8	43.8	11.4	36.0	36.0	17.3	41.9	22.9
Total Split (%)	19.1%	39.5%	16.1%	36.5%	36.5%	9.5%	30.0%	30.0%	14.4%	34.9%	19.1%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	14.4	41.6	14.1	41.3	41.3	6.8	31.9	31.9	11.3	35.4	56.3
Actuated g/C Ratio	0.12	0.35	0.12	0.35	0.35	0.06	0.27	0.27	0.09	0.30	0.47
v/c Ratio	0.75	0.98	0.89	0.35	0.12	1.54	2.04	0.36	0.75	1.32	0.21
Control Delay	73.0	71.3	94.7	30.8	0.4	324.3	498.6	11.3	81.4	184.8	3.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	73.0	71.3	94.7	30.8	0.4	324.3	498.6	11.3	81.4	184.8	3.6
LOS	E	E	F	C	A	F	F	B	F	F	A
Approach Delay		71.6		43.8			446.0			158.3	
Approach LOS		E		D			F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.04	
Intersection Signal Delay: 252.3	Intersection LOS: F
Intersection Capacity Utilization 122.6%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	144	515	87	168	408	75	139	1850	185	114	1321	169
Future Volume (veh/h)	144	515	87	168	408	75	139	1850	185	114	1321	169
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	145	520	57	170	412	37	140	1869	124	115	1334	72
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	170	544	60	194	1219	535	93	929	415	138	1024	616
Arrive On Green	0.10	0.34	0.34	0.12	0.36	0.36	0.06	0.27	0.27	0.09	0.30	0.30
Sat Flow, veh/h	1619	1594	175	1619	3420	1502	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	145	0	577	170	412	37	140	1869	124	115	1334	72
Grp Sat Flow(s),veh/h/ln	1619	0	1769	1619	1710	1502	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	10.4	0.0	37.7	12.2	10.4	1.9	6.8	32.1	7.6	8.3	35.4	3.5
Cycle Q Clear(g_c), s	10.4	0.0	37.7	12.2	10.4	1.9	6.8	32.1	7.6	8.3	35.4	3.5
Prop In Lane	1.00		0.10	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	170	0	604	194	1219	535	93	929	415	138	1024	616
V/C Ratio(X)	0.85	0.00	0.96	0.88	0.34	0.07	1.50	2.01	0.30	0.83	1.30	0.12
Avail Cap(c_a), veh/h	251	0	622	201	1219	535	93	929	415	174	1024	616
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.0	0.0	38.1	51.2	27.8	25.1	55.7	43.1	34.1	53.3	41.4	22.0
Incr Delay (d2), s/veh	11.9	0.0	25.1	30.4	0.2	0.1	274.3	458.7	0.4	19.7	143.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	0.0	19.7	6.4	4.1	0.7	9.8	71.9	0.0	4.1	34.8	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	63.9	0.0	63.2	81.5	28.0	25.2	330.0	501.7	34.5	72.9	184.9	22.1
LnGrp LOS	E	A	E	F	C	C	F	F	C	E	F	C
Approach Vol, veh/h		722			619			2133			1521	
Approach Delay, s/veh		63.3			42.5			463.3			168.7	
Approach LOS		E			D			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.7	38.6	18.8	46.2	11.4	41.9	17.0	48.0
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	12.7	* 31	14.7	41.6	6.8	35.4	18.3	38.0
Max Q Clear Time (g_c+I1), s	10.3	34.1	14.2	39.7	8.8	37.4	12.4	12.4
Green Ext Time (p_c), s	0.0	0.0	0.0	0.7	0.0	0.0	0.1	2.6

Intersection Summary	
HCM 6th Ctrl Delay	263.6
HCM 6th LOS	F

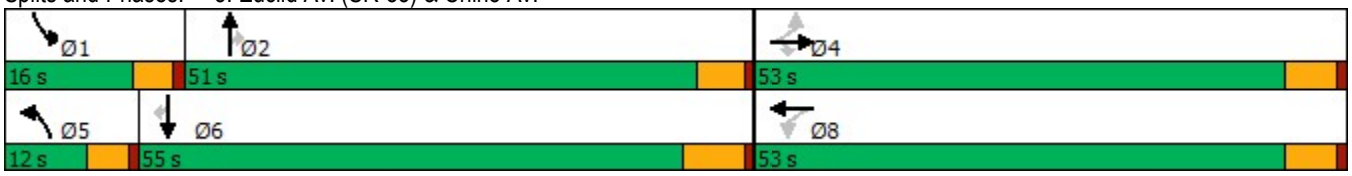
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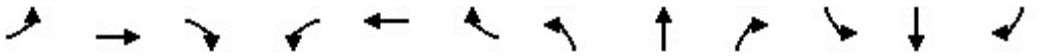
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	82	455	56	94	131	62	2056	221	96	1402	71
Future Volume (vph)	82	455	56	94	131	62	2056	221	96	1402	71
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	53.0	53.0	53.0	53.0	53.0	12.0	51.0	51.0	16.0	55.0	55.0
Total Split (%)	44.2%	44.2%	44.2%	44.2%	44.2%	10.0%	42.5%	42.5%	13.3%	45.8%	45.8%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	44.8	44.8	44.8		44.8	7.0	46.2	46.2	10.1	50.3	50.3
Actuated g/C Ratio	0.38	0.38	0.38		0.38	0.06	0.40	0.40	0.09	0.43	0.43
v/c Ratio	0.25	0.68	0.09		1.01	0.67	1.56	0.35	0.71	0.98	0.10
Control Delay	27.0	35.9	3.7		89.1	86.8	286.0	19.8	79.9	53.8	6.6
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	27.0	35.9	3.7		89.1	86.8	286.0	19.8	79.9	53.8	6.6
LOS	C	D	A		F	F	F	B	E	D	A
Approach Delay		31.6			89.1		255.6			53.3	
Approach LOS		C			F		F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.7	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.56	
Intersection Signal Delay: 151.5	Intersection LOS: F
Intersection Capacity Utilization 126.3%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	82	455	56	94	131	70	62	2056	221	96	1402	71
Future Volume (veh/h)	82	455	56	94	131	70	62	2056	221	96	1402	71
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	85	469	38	97	135	66	64	2120	166	99	1445	41
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	283	716	606	118	155	66	80	1319	588	120	1405	627
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.05	0.39	0.39	0.07	0.41	0.41
Sat Flow, veh/h	1074	1800	1525	196	390	167	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	85	469	38	298	0	0	64	2120	166	99	1445	41
Grp Sat Flow(s),veh/h/ln	1074	1800	1525	753	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	25.2	1.8	21.9	0.0	0.0	4.6	45.8	8.9	7.2	48.8	1.9
Cycle Q Clear(g_c), s	12.9	25.2	1.8	47.1	0.0	0.0	4.6	45.8	8.9	7.2	48.8	1.9
Prop In Lane	1.00		1.00	0.33		0.22	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	283	716	606	339	0	0	80	1319	588	120	1405	627
V/C Ratio(X)	0.30	0.66	0.06	0.88	0.00	0.00	0.80	1.61	0.28	0.82	1.03	0.07
Avail Cap(c_a), veh/h	283	716	606	339	0	0	101	1319	588	155	1405	627
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.4	29.1	22.1	41.4	0.0	0.0	55.9	36.5	25.1	54.2	35.0	21.2
Incr Delay (d2), s/veh	0.6	2.2	0.0	22.0	0.0	0.0	23.8	276.7	1.2	18.6	31.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.7	10.8	0.6	10.5	0.0	0.0	2.3	68.2	3.2	3.4	24.5	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.0	31.3	22.1	63.4	0.0	0.0	79.6	313.1	26.3	72.8	66.5	21.4
LnGrp LOS	C	C	C	E	A	A	E	F	C	E	F	C
Approach Vol, veh/h		592			298			2350			1585	
Approach Delay, s/veh		30.0			63.4			286.5			65.7	
Approach LOS		C			E			F			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.4	52.3		53.0	10.4	55.3		53.0				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 46		47.2	7.4	48.5		47.2				
Max Q Clear Time (g_c+I1), s	9.2	47.8		27.2	6.6	50.8		49.1				
Green Ext Time (p_c), s	0.0	0.0		3.0	0.0	0.0		0.0				

Intersection Summary			
HCM 6th Ctrl Delay		168.7	
HCM 6th LOS		F	

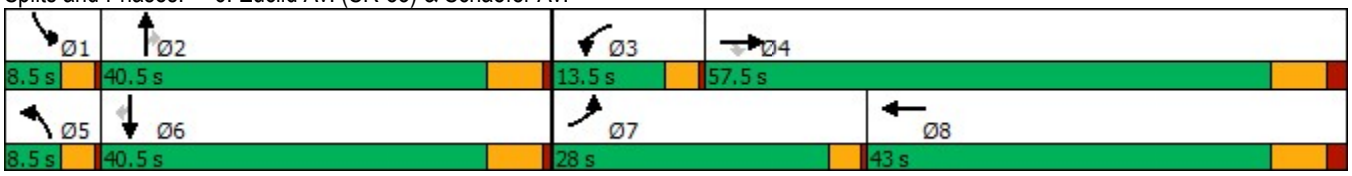
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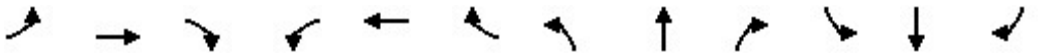
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	367	305	157	46	111	162	1846	50	82	1302	151
Future Volume (vph)	367	305	157	46	111	162	1846	50	82	1302	151
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	28.0	57.5	57.5	13.5	43.0	8.5	40.5	40.5	8.5	40.5	40.5
Total Split (%)	23.3%	47.9%	47.9%	11.3%	35.8%	7.1%	33.8%	33.8%	7.1%	33.8%	33.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	24.7	36.8	36.8	10.1	16.3	5.0	34.8	34.8	5.0	34.8	34.8
Actuated g/C Ratio	0.24	0.36	0.36	0.10	0.16	0.05	0.34	0.34	0.05	0.34	0.34
v/c Ratio	0.96	0.48	0.25	0.29	0.60	2.09	1.62	0.08	1.06	1.14	0.26
Control Delay	75.9	28.6	4.5	50.7	41.6	555.4	308.2	0.3	167.6	105.9	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	75.9	28.6	4.5	50.7	41.6	555.4	308.2	0.3	167.6	105.9	8.4
LOS	E	C	A	D	D	F	F	A	F	F	A
Approach Delay		45.0			43.5		320.1			99.6	
Approach LOS		D			D		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 101.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.09	
Intersection Signal Delay: 185.0	Intersection LOS: F
Intersection Capacity Utilization 109.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	367	305	157	46	111	61	162	1846	50	82	1302	151
Future Volume (veh/h)	367	305	157	46	111	61	162	1846	50	82	1302	151
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	378	314	97	47	114	57	167	1903	45	85	1342	111
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	405	548	464	121	146	73	85	1232	550	85	1232	537
Arrive On Green	0.25	0.30	0.30	0.07	0.13	0.13	0.05	0.36	0.36	0.05	0.36	0.36
Sat Flow, veh/h	1619	1800	1525	1619	1131	566	1619	3420	1525	1619	3420	1491
Grp Volume(v), veh/h	378	314	97	47	0	171	167	1903	45	85	1342	111
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1697	1619	1710	1525	1619	1710	1491
Q Serve(g_s), s	21.9	14.1	4.5	2.6	0.0	9.4	5.0	34.5	1.9	5.0	34.5	4.9
Cycle Q Clear(g_c), s	21.9	14.1	4.5	2.6	0.0	9.4	5.0	34.5	1.9	5.0	34.5	4.9
Prop In Lane	1.00		1.00	1.00		0.33	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	405	548	464	121	0	219	85	1232	550	85	1232	537
V/C Ratio(X)	0.93	0.57	0.21	0.39	0.00	0.78	1.98	1.54	0.08	1.01	1.09	0.21
Avail Cap(c_a), veh/h	414	949	804	169	0	638	85	1232	550	85	1232	537
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.2	28.1	24.8	42.2	0.0	40.4	45.4	30.6	20.2	45.4	30.6	21.2
Incr Delay (d2), s/veh	27.5	0.7	0.2	0.8	0.0	4.5	478.6	249.2	0.1	99.4	53.6	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.2	5.8	1.6	1.0	0.0	4.0	13.1	55.2	0.6	4.2	21.7	1.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	62.7	28.8	24.9	43.0	0.0	44.9	524.0	279.8	20.3	144.8	84.2	21.4
LnGrp LOS	E	C	C	D	A	D	F	F	C	F	F	C
Approach Vol, veh/h		789			218			2115			1538	
Approach Delay, s/veh		44.5			44.5			293.6			83.0	
Approach LOS		D			D			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.5	40.5	10.6	36.1	8.5	40.5	27.4	19.3
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	34.5	10.0	50.5	5.0	34.5	24.5	36.0
Max Q Clear Time (g_c+I1), s	7.0	36.5	4.6	16.1	7.0	36.5	23.9	11.4
Green Ext Time (p_c), s	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.7

Intersection Summary	
HCM 6th Ctrl Delay	170.3
HCM 6th LOS	F

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	9	1779	4	0	1461
Future Vol, veh/h	0	9	1779	4	0	1461
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	10	1934	4	0	1588

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	969	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	257	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	257	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	19.6	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	257	-
HCM Lane V/C Ratio	-	-	0.038	-
HCM Control Delay (s)	-	-	19.6	-
HCM Lane LOS	-	-	C	-
HCM 95th %tile Q(veh)	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	33	1751	13	0	1461
Future Vol, veh/h	0	33	1751	13	0	1461
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	36	1903	14	0	1588

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	959	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	261	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	261	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	21	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	261	-
HCM Lane V/C Ratio	-	-	0.137	-
HCM Control Delay (s)	-	-	21	-
HCM Lane LOS	-	-	C	-
HCM 95th %tile Q(veh)	-	-	0.5	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	30	1733	15	0	1461
Future Vol, veh/h	0	30	1733	15	0	1461
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	33	1884	16	0	1588

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	950	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	265	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	265	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

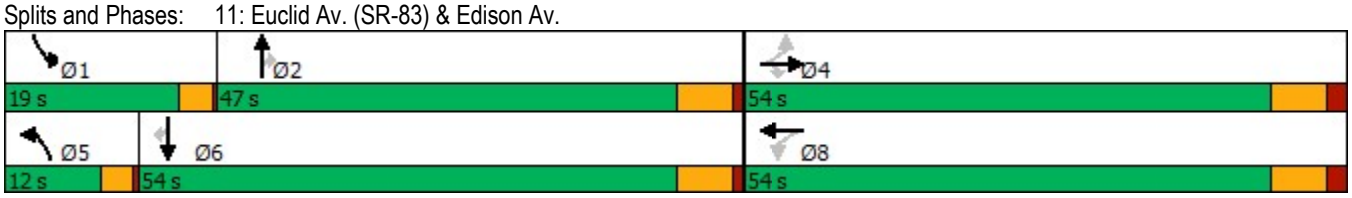
Approach	WB	NB	SB
HCM Control Delay, s	20.5	0	0
HCM LOS	C		

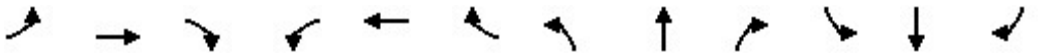
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	265	-
HCM Lane V/C Ratio	-	-	0.123	-
HCM Control Delay (s)	-	-	20.5	-
HCM Lane LOS	-	-	C	-
HCM 95th %tile Q(veh)	-	-	0.4	-

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	258	573	215	49	479	207	1548	52	155	1119	188
Future Volume (vph)	258	573	215	49	479	207	1548	52	155	1119	188
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	47.0	47.0	47.0	47.0	47.0	8.5	41.0	41.0	14.1	46.6	46.6
Actuated g/C Ratio	0.40	0.40	0.40	0.40	0.40	0.07	0.35	0.35	0.12	0.39	0.39
v/c Ratio	4.61	0.82	0.30	0.40	1.09	0.94	1.34	0.09	0.83	0.85	0.28
Control Delay	1684.9	43.4	5.9	38.7	95.2	102.3	190.2	0.7	83.5	40.1	8.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	1684.9	43.4	5.9	38.7	95.2	102.3	190.2	0.7	83.5	40.1	8.1
LOS	F	D	A	D	F	F	F	A	F	D	A
Approach Delay		440.3			91.7		174.7			40.6	
Approach LOS		F			F		F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.6	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 4.61	
Intersection Signal Delay: 178.0	Intersection LOS: F
Intersection Capacity Utilization 133.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	258	573	215	49	479	256	207	1548	52	155	1119	188
Future Volume (veh/h)	258	573	215	49	479	256	207	1548	52	155	1119	188
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	263	585	168	50	489	250	211	1580	43	158	1142	141
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	61	718	609	132	446	228	227	1191	518	182	1329	585
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.07	0.35	0.35	0.11	0.39	0.39
Sat Flow, veh/h	654	1800	1525	645	1117	571	3141	3420	1489	1619	3420	1506
Grp Volume(v), veh/h	263	585	168	50	0	739	211	1580	43	158	1142	141
Grp Sat Flow(s),veh/h/ln	654	1800	1525	645	0	1688	1570	1710	1489	1619	1710	1506
Q Serve(g_s), s	0.0	34.1	8.8	8.8	0.0	47.0	7.9	41.0	2.3	11.3	36.1	7.4
Cycle Q Clear(g_c), s	47.0	34.1	8.8	42.9	0.0	47.0	7.9	41.0	2.3	11.3	36.1	7.4
Prop In Lane	1.00		1.00	1.00		0.34	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	61	718	609	132	0	674	227	1191	518	182	1329	585
V/C Ratio(X)	4.30	0.81	0.28	0.38	0.00	1.10	0.93	1.33	0.08	0.87	0.86	0.24
Avail Cap(c_a), veh/h	61	718	609	132	0	674	227	1191	518	213	1394	614
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	58.9	31.5	23.9	50.6	0.0	35.4	54.3	38.4	25.8	51.4	33.0	24.3
Incr Delay (d2), s/veh	1523.2	7.2	0.2	1.8	0.0	64.1	40.5	153.0	0.1	24.0	5.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	27.6	15.4	3.1	1.5	0.0	30.0	4.3	41.1	0.8	5.6	14.7	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	1582.0	38.7	24.1	52.4	0.0	99.5	94.8	191.4	25.8	75.4	38.5	24.5
LnGrp LOS	F	D	C	D	A	F	F	F	C	E	D	C
Approach Vol, veh/h		1016			789			1834			1441	
Approach Delay, s/veh		435.8			96.5			176.4			41.2	
Approach LOS		F			F			F			D	

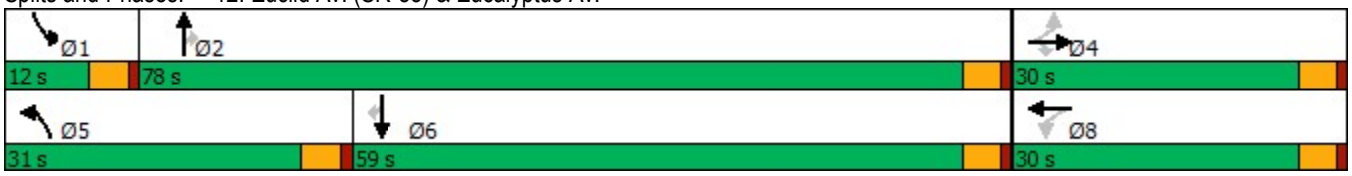
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	16.8	47.0		54.0	12.0	51.8		54.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	13.3	43.0		49.0	9.9	38.1		49.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	5.2		0.0				

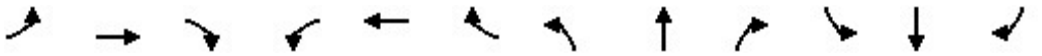
Intersection Summary			
HCM 6th Ctrl Delay		177.5	
HCM 6th LOS		F	

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	38	151	212	6	48	119	1640	21	137	1549	56
Future Volume (vph)	38	151	212	6	48	119	1640	21	137	1549	56
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	30.0	30.0	30.0	30.0	30.0	31.0	78.0	78.0	12.0	59.0	59.0
Total Split (%)	25.0%	25.0%	25.0%	25.0%	25.0%	25.8%	65.0%	65.0%	10.0%	49.2%	49.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	19.0	19.0	19.0	19.0	19.0	13.5	63.9	63.9	7.6	58.1	58.1
Actuated g/C Ratio	0.18	0.18	0.18	0.18	0.18	0.13	0.61	0.61	0.07	0.56	0.56
v/c Ratio	0.62	0.48	0.48	0.04	0.85	0.60	0.81	0.02	1.21	0.85	0.07
Control Delay	80.3	44.2	9.0	37.5	45.8	56.7	20.3	0.0	195.5	26.7	1.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	80.3	44.2	9.0	37.5	45.8	56.7	20.3	0.0	195.5	26.7	1.0
LOS	F	D	A	D	D	E	C	A	F	C	A
Approach Delay		29.0			45.6		22.5			39.2	
Approach LOS		C			D		C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 104.3	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.21	
Intersection Signal Delay: 31.7	Intersection LOS: C
Intersection Capacity Utilization 95.8%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	151	212	6	48	271	119	1640	21	137	1549	56
Future Volume (veh/h)	38	151	212	6	48	271	119	1640	21	137	1549	56
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	40	157	126	6	50	279	124	1708	20	143	1614	47
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	96	423	359	228	56	311	151	1953	871	112	1870	833
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.09	0.57	0.57	0.07	0.55	0.55
Sat Flow, veh/h	955	1800	1525	996	237	1324	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	40	157	126	6	0	329	124	1708	20	143	1614	47
Grp Sat Flow(s),veh/h/ln	955	1800	1525	996	0	1562	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	3.4	7.9	7.5	0.6	0.0	22.1	8.2	46.4	0.6	7.5	43.9	1.6
Cycle Q Clear(g_c), s	25.5	7.9	7.5	8.5	0.0	22.1	8.2	46.4	0.6	7.5	43.9	1.6
Prop In Lane	1.00		1.00	1.00		0.85	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	96	423	359	228	0	367	151	1953	871	112	1870	833
V/C Ratio(X)	0.42	0.37	0.35	0.03	0.00	0.90	0.82	0.87	0.02	1.28	0.86	0.06
Avail Cap(c_a), veh/h	96	423	359	228	0	367	396	2319	1034	112	1870	833
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.0	34.7	34.6	38.3	0.0	40.2	48.2	19.9	10.1	50.5	21.1	11.5
Incr Delay (d2), s/veh	2.9	0.5	0.6	0.0	0.0	23.5	10.3	3.5	0.0	176.8	4.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	3.4	2.7	0.1	0.0	10.5	3.6	16.2	0.2	8.4	15.9	0.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	55.8	35.3	35.1	38.3	0.0	63.6	58.5	23.5	10.1	227.2	25.5	11.5
LnGrp LOS	E	D	D	D	A	E	E	C	B	F	C	B
Approach Vol, veh/h		323			335			1852			1804	
Approach Delay, s/veh		37.8			63.2			25.7			41.2	
Approach LOS		D			E			C			D	

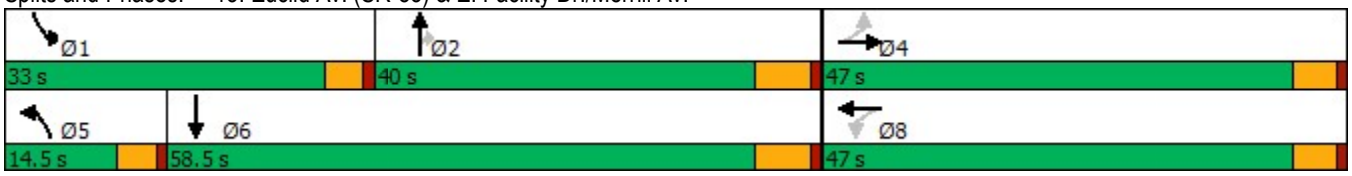
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.0	66.4		30.0	14.6	63.8		30.0				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	7.5	73.5		25.5	26.5	54.5		25.5				
Max Q Clear Time (g_c+I1), s	9.5	48.4		27.5	10.2	45.9		24.1				
Green Ext Time (p_c), s	0.0	13.5		0.0	0.2	6.1		0.3				

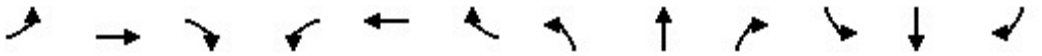
Intersection Summary			
HCM 6th Ctrl Delay		36.0	
HCM 6th LOS		D	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	3	20	602	0	1	1151	348	380	1361
Future Volume (vph)	3	20	602	0	1	1151	348	380	1361
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	47.0	47.0	47.0	47.0	14.5	40.0	40.0	33.0	58.5
Total Split (%)	39.2%	39.2%	39.2%	39.2%	12.1%	33.3%	33.3%	27.5%	48.8%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		42.0		42.0	10.0	34.0	34.0	28.5	64.1
Actuated g/C Ratio		0.35		0.35	0.08	0.28	0.28	0.24	0.53
v/c Ratio		0.06		2.20	0.01	1.22	0.72	1.02	0.77
Control Delay		20.8		566.6	51.0	148.2	36.1	97.5	26.8
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		20.8		566.6	51.0	148.2	36.1	97.5	26.8
LOS		C		F	D	F	D	F	C
Approach Delay		20.8		566.6		122.1			42.2
Approach LOS		C		F		F			D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.20	
Intersection Signal Delay: 207.6	Intersection LOS: F
Intersection Capacity Utilization 149.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	3	20	9	602	0	579	1	1151	348	380	1361	10
Future Volume (veh/h)	3	20	9	602	0	579	1	1151	348	380	1361	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	3	21	5	621	0	568	1	1187	325	392	1403	8
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	71	450	101	307	0	239	4	969	423	385	1806	10
Arrive On Green	0.35	0.35	0.35	0.35	0.00	0.35	0.00	0.28	0.28	0.24	0.52	0.52
Sat Flow, veh/h	107	1284	290	746	0	683	1619	3420	1493	1619	3487	20
Grp Volume(v), veh/h	29	0	0	1189	0	0	1	1187	325	392	688	723
Grp Sat Flow(s),veh/h/ln	1681	0	0	1429	0	0	1619	1710	1493	1619	1710	1796
Q Serve(g_s), s	0.0	0.0	0.0	40.7	0.0	0.0	0.1	34.0	23.9	28.5	38.9	39.0
Cycle Q Clear(g_c), s	1.3	0.0	0.0	42.0	0.0	0.0	0.1	34.0	23.9	28.5	38.9	39.0
Prop In Lane	0.10		0.17	0.52		0.48	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	622	0	0	546	0	0	4	969	423	385	886	931
V/C Ratio(X)	0.05	0.00	0.00	2.18	0.00	0.00	0.23	1.22	0.77	1.02	0.78	0.78
Avail Cap(c_a), veh/h	622	0	0	546	0	0	135	969	423	385	886	931
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	25.8	0.0	0.0	40.6	0.0	0.0	59.7	43.0	39.4	45.8	23.3	23.3
Incr Delay (d2), s/veh	0.0	0.0	0.0	536.4	0.0	0.0	9.3	110.5	8.3	50.9	4.4	4.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	0.0	0.0	97.1	0.0	0.0	0.0	28.3	9.2	16.2	15.0	15.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.8	0.0	0.0	577.1	0.0	0.0	69.0	153.5	47.7	96.7	27.7	27.5
LnGrp LOS	C	A	A	F	A	A	E	F	D	F	C	C
Approach Vol, veh/h		29			1189			1513			1803	
Approach Delay, s/veh		25.8			577.1			130.7			42.6	
Approach LOS		C			F			F			D	

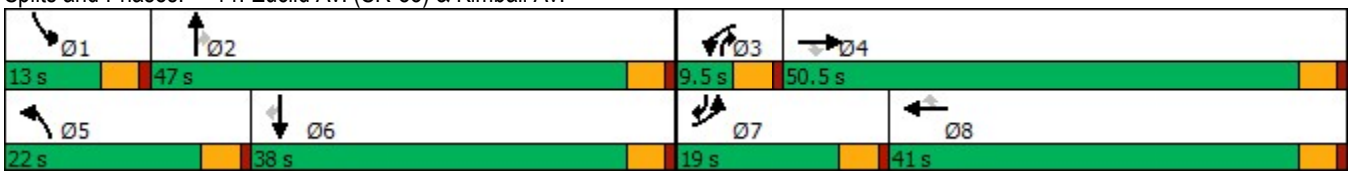
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	33.0	40.0		47.0	4.8	68.2		47.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	28.5	34.0		42.0	10.0	52.5		42.0				
Max Q Clear Time (g_c+I1), s	30.5	36.0		3.3	2.1	41.0		44.0				
Green Ext Time (p_c), s	0.0	0.0		0.1	0.0	6.2		0.0				

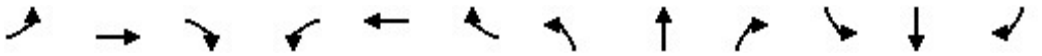
Intersection Summary			
HCM 6th Ctrl Delay		212.1	
HCM 6th LOS		F	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	368	946	74	87	455	207	89	866	195	544	1133	267
Future Volume (vph)	368	946	74	87	455	207	89	866	195	544	1133	267
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	19.0	50.5	50.5	9.5	41.0	41.0	22.0	47.0	9.5	13.0	38.0	19.0
Total Split (%)	15.8%	42.1%	42.1%	7.9%	34.2%	34.2%	18.3%	39.2%	7.9%	10.8%	31.7%	15.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	14.8	35.7	35.7	5.1	26.0	26.0	11.3	34.4	44.1	8.7	34.7	49.5
Actuated g/C Ratio	0.14	0.35	0.35	0.05	0.25	0.25	0.11	0.34	0.43	0.09	0.34	0.48
v/c Ratio	0.88	0.81	0.12	1.11	0.53	0.40	0.51	0.77	0.28	2.22	1.00	0.32
Control Delay	68.0	36.6	0.5	181.3	35.5	8.3	56.1	36.1	11.6	585.1	62.1	4.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	68.0	36.6	0.5	181.3	35.5	8.3	56.1	36.1	11.6	585.1	62.1	4.9
LOS	E	D	A	F	D	A	E	D	B	F	E	A
Approach Delay		43.0			45.0			33.5			200.6	
Approach LOS		D			D			C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 102.3	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.22	
Intersection Signal Delay: 99.7	Intersection LOS: F
Intersection Capacity Utilization 91.7%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	368	946	74	87	455	207	89	866	195	544	1133	267
Future Volume (veh/h)	368	946	74	87	455	207	89	866	195	544	1133	267
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	376	965	64	89	464	140	91	884	157	555	1156	230
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	431	1177	525	84	855	381	114	1127	582	260	1187	745
Arrive On Green	0.15	0.34	0.34	0.05	0.25	0.25	0.07	0.33	0.33	0.09	0.35	0.35
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	376	965	64	89	464	140	91	884	157	555	1156	230
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	12.0	24.9	2.8	5.0	11.4	7.3	5.3	22.6	6.9	8.5	32.2	8.8
Cycle Q Clear(g_c), s	12.0	24.9	2.8	5.0	11.4	7.3	5.3	22.6	6.9	8.5	32.2	8.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	431	1177	525	84	855	381	114	1127	582	260	1187	745
V/C Ratio(X)	0.87	0.82	0.12	1.06	0.54	0.37	0.80	0.78	0.27	2.13	0.97	0.31
Avail Cap(c_a), veh/h	444	1630	727	84	1293	577	294	1506	751	260	1187	745
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.3	28.9	21.7	45.8	31.4	29.9	44.2	29.3	20.6	44.0	31.1	14.6
Incr Delay (d2), s/veh	16.7	2.4	0.1	116.0	0.5	0.6	11.8	2.0	0.2	522.1	20.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.2	9.8	1.0	4.6	4.5	2.6	2.4	8.6	2.3	21.8	15.1	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	57.0	31.4	21.8	161.7	32.0	30.5	56.0	31.3	20.8	566.1	51.1	14.9
LnGrp LOS	E	C	C	F	C	C	E	C	C	F	D	B
Approach Vol, veh/h		1405			693			1132			1941	
Approach Delay, s/veh		37.8			48.3			31.8			194.1	
Approach LOS		D			D			C			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.0	36.3	9.5	37.7	11.3	38.0	18.6	28.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.5	42.5	5.0	46.0	17.5	33.5	14.5	36.5
Max Q Clear Time (g_c+I1), s	10.5	24.6	7.0	26.9	7.3	34.2	14.0	13.4
Green Ext Time (p_c), s	0.0	5.6	0.0	6.3	0.1	0.0	0.1	3.2

Intersection Summary	
HCM 6th Ctrl Delay	96.6
HCM 6th LOS	F

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	435	2	0	218	0	6
Future Vol, veh/h	435	2	0	218	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	473	2	0	237	0	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	474
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	595
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	595
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	11.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	595	-	-	-
HCM Lane V/C Ratio	0.011	-	-	-
HCM Control Delay (s)	11.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	431	10	1	207	11	5
Future Vol, veh/h	431	10	1	207	11	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	468	11	1	225	12	5

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	479	0	701	474
Stage 1	-	-	-	-	474	-
Stage 2	-	-	-	-	227	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1094	-	408	595
Stage 1	-	-	-	-	630	-
Stage 2	-	-	-	-	815	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1094	-	408	595
Mov Cap-2 Maneuver	-	-	-	-	503	-
Stage 1	-	-	-	-	630	-
Stage 2	-	-	-	-	814	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	12
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	529	-	-	1094	-
HCM Lane V/C Ratio	0.033	-	-	0.001	-
HCM Control Delay (s)	12	-	-	8.3	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	435	2	0	208	0	6
Future Vol, veh/h	435	2	0	208	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	473	2	0	226	0	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	474
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	595
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	595
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	11.1
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	595	-	-	-
HCM Lane V/C Ratio	0.011	-	-	-
HCM Control Delay (s)	11.1	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Intersection Delay, s/veh	11.4
Intersection LOS	B

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	425	15	4	200	8	3
Future Vol, veh/h	425	15	4	200	8	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	462	16	4	217	9	3
Number of Lanes	1	0	1	1	1	0

Approach	EB	WB	NB
Opposing Approach	WB	EB	
Opposing Lanes	2	1	0
Conflicting Approach Left		NB	EB
Conflicting Lanes Left	0	1	1
Conflicting Approach Right	NB		WB
Conflicting Lanes Right	1	0	2
HCM Control Delay	12.4	9.5	8.5
HCM LOS	B	A	A

Lane	NBLn1	EBLn1	WBLn1	WBLn2
Vol Left, %	73%	0%	100%	0%
Vol Thru, %	0%	97%	0%	100%
Vol Right, %	27%	3%	0%	0%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	11	440	4	200
LT Vol	8	0	4	0
Through Vol	0	425	0	200
RT Vol	3	15	0	0
Lane Flow Rate	12	478	4	217
Geometry Grp	2	4a	5	5
Degree of Util (X)	0.018	0.553	0.006	0.287
Departure Headway (Hd)	5.408	4.163	5.256	4.754
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	666	851	674	748
Service Time	3.408	2.256	3.043	2.54
HCM Lane V/C Ratio	0.018	0.562	0.006	0.29
HCM Control Delay	8.5	12.4	8.1	9.5
HCM Lane LOS	A	B	A	A
HCM 95th-tile Q	0.1	3.5	0	1.2

Intersection	
Int Delay, s/veh	4.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	24	3	7	10	9
Future Vol, veh/h	4	24	3	7	10	9
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	26	3	8	11	10

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	30	16	21	0	-	0
Stage 1	16	-	-	-	-	-
Stage 2	14	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	989	1069	1608	-	-	-
Stage 1	1012	-	-	-	-	-
Stage 2	1014	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	987	1069	1608	-	-	-
Mov Cap-2 Maneuver	912	-	-	-	-	-
Stage 1	1010	-	-	-	-	-
Stage 2	1014	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	2.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1608	-	1043	-	-
HCM Lane V/C Ratio	0.002	-	0.029	-	-
HCM Control Delay (s)	7.2	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	5	1	6	32	3
Future Vol, veh/h	4	5	1	6	32	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	5	1	7	35	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	46	37	38	0	-	0
Stage 1	37	-	-	-	-	-
Stage 2	9	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	969	1041	1585	-	-	-
Stage 1	991	-	-	-	-	-
Stage 2	1019	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	968	1041	1585	-	-	-
Mov Cap-2 Maneuver	898	-	-	-	-	-
Stage 1	990	-	-	-	-	-
Stage 2	1019	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.7	1	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1585	-	972	-	-
HCM Lane V/C Ratio	0.001	-	0.01	-	-
HCM Control Delay (s)	7.3	-	8.7	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	3	7	1	5	34	3
Future Vol, veh/h	3	7	1	5	34	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	8	1	5	37	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	46	39	40	0	-	0
Stage 1	39	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	969	1038	1583	-	-	-
Stage 1	989	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	968	1038	1583	-	-	-
Mov Cap-2 Maneuver	897	-	-	-	-	-
Stage 1	988	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.7	1.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1583	-	991	-	-
HCM Lane V/C Ratio	0.001	-	0.011	-	-
HCM Control Delay (s)	7.3	-	8.7	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	10	3	6	40	0
Future Vol, veh/h	0	10	3	6	40	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	11	3	7	43	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	56	43	43	0	-	0
Stage 1	43	-	-	-	-	-
Stage 2	13	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	957	1033	1579	-	-	-
Stage 1	985	-	-	-	-	-
Stage 2	1015	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	955	1033	1579	-	-	-
Mov Cap-2 Maneuver	889	-	-	-	-	-
Stage 1	983	-	-	-	-	-
Stage 2	1015	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.5	2.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1579	-	1033	-	-
HCM Lane V/C Ratio	0.002	-	0.011	-	-
HCM Control Delay (s)	7.3	-	8.5	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	3.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	30	13	9	48	2
Future Vol, veh/h	0	30	13	9	48	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	33	14	10	52	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	91	53	54	0	-	0
Stage 1	53	-	-	-	-	-
Stage 2	38	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	914	1020	1564	-	-	-
Stage 1	975	-	-	-	-	-
Stage 2	990	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	906	1020	1564	-	-	-
Mov Cap-2 Maneuver	859	-	-	-	-	-
Stage 1	966	-	-	-	-	-
Stage 2	990	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	4.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1564	-	1020	-	-
HCM Lane V/C Ratio	0.009	-	0.032	-	-
HCM Control Delay (s)	7.3	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Intersection Delay, s/veh	157.1
Intersection LOS	F

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	0	776	776	21	71	7
Future Vol, veh/h	0	776	776	21	71	7
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	843	843	23	77	8
Number of Lanes	1	1	1	0	1	1

Approach	EB	WB	SB
Opposing Approach	WB	EB	
Opposing Lanes	1	2	0
Conflicting Approach Left	SB		WB
Conflicting Lanes Left	2	0	1
Conflicting Approach Right		SB	EB
Conflicting Lanes Right	0	2	2
HCM Control Delay	155.2	173	13.2
HCM LOS	F	F	B

Lane	EBLn1	EBLn2	WBLn1	SBLn1	SBLn2
Vol Left, %	0%	0%	0%	100%	0%
Vol Thru, %	100%	100%	97%	0%	0%
Vol Right, %	0%	0%	3%	0%	100%
Sign Control	Stop	Stop	Stop	Stop	Stop
Traffic Vol by Lane	0	776	797	71	7
LT Vol	0	0	0	71	0
Through Vol	0	776	776	0	0
RT Vol	0	0	21	0	7
Lane Flow Rate	0	843	866	77	8
Geometry Grp	7	7	4	7	7
Degree of Util (X)	0	1.276	1.318	0.174	0.015
Departure Headway (Hd)	5.76	5.76	5.823	8.96	7.712
Convergence, Y/N	Yes	Yes	Yes	Yes	Yes
Cap	0	641	632	403	467
Service Time	3.46	3.46	3.823	6.66	5.412
HCM Lane V/C Ratio	0	1.315	1.37	0.191	0.017
HCM Control Delay	8.5	155.2	173	13.5	10.5
HCM Lane LOS	N	F	F	B	B
HCM 95th-tile Q	0	31.2	33.7	0.6	0

Intersection	
Intersection Delay, s/veh	19.9
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	61	432	23	8	122	14	28	173	21	17	93	21
Future Vol, veh/h	61	432	23	8	122	14	28	173	21	17	93	21
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	65	460	24	9	130	15	30	184	22	18	99	22
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	27.5	11	13.2	11.4
HCM LOS	D	B	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	13%	12%	6%	13%
Vol Thru, %	78%	84%	85%	71%
Vol Right, %	9%	4%	10%	16%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	222	516	144	131
LT Vol	28	61	8	17
Through Vol	173	432	122	93
RT Vol	21	23	14	21
Lane Flow Rate	236	549	153	139
Geometry Grp	1	1	1	1
Degree of Util (X)	0.4	0.813	0.252	0.243
Departure Headway (Hd)	6.091	5.33	5.931	6.274
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	586	675	599	567
Service Time	4.177	3.394	4.026	4.372
HCM Lane V/C Ratio	0.403	0.813	0.255	0.245
HCM Control Delay	13.2	27.5	11	11.4
HCM Lane LOS	B	D	B	B
HCM 95th-tile Q	1.9	8.5	1	0.9

Intersection	
Intersection Delay, s/veh	311.4
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	65	815	25	6	694	17	8	186	13	20	180	24
Future Vol, veh/h	65	815	25	6	694	17	8	186	13	20	180	24
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	71	886	27	7	754	18	9	202	14	22	196	26
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	465.8	287.2	26.8	28.1
HCM LOS	F	F	D	D

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	4%	7%	1%	9%
Vol Thru, %	90%	90%	97%	80%
Vol Right, %	6%	3%	2%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	207	905	717	224
LT Vol	8	65	6	20
Through Vol	186	815	694	180
RT Vol	13	25	17	24
Lane Flow Rate	225	984	779	243
Geometry Grp	1	1	1	1
Degree of Util (X)	0.524	1.974	1.561	0.56
Departure Headway (Hd)	11.649	8.297	8.941	11.44
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	313	452	413	319
Service Time	9.649	6.297	6.941	9.44
HCM Lane V/C Ratio	0.719	2.177	1.886	0.762
HCM Control Delay	26.8	465.8	287.2	28.1
HCM Lane LOS	D	F	F	D
HCM 95th-tile Q	2.9	58.3	35	3.2

Intersection	
Intersection Delay, s/veh	163.3
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	130	231	104	2	79	49	35	627	34	61	228	36
Future Vol, veh/h	130	231	104	2	79	49	35	627	34	61	228	36
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	143	254	114	2	87	54	38	689	37	67	251	40
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	88.8	19.3	298.4	38.1
HCM LOS	F	C	F	E

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	28%	2%	19%
Vol Thru, %	90%	50%	61%	70%
Vol Right, %	5%	22%	38%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	696	465	130	325
LT Vol	35	130	2	61
Through Vol	627	231	79	228
RT Vol	34	104	49	36
Lane Flow Rate	765	511	143	357
Geometry Grp	1	1	1	1
Degree of Util (X)	1.596	1.053	0.348	0.779
Departure Headway (Hd)	7.772	8.68	10.681	9.228
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	474	424	339	396
Service Time	5.772	6.68	8.681	7.228
HCM Lane V/C Ratio	1.614	1.205	0.422	0.902
HCM Control Delay	298.4	88.8	19.3	38.1
HCM Lane LOS	F	F	C	E
HCM 95th-tile Q	41.2	14.2	1.5	6.6

Intersection	
Intersection Delay, s/veh	652.4
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	53	612	176	25	261	36	442	593	111	53	260	26
Future Vol, veh/h	53	612	176	25	261	36	442	593	111	53	260	26
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	57	658	189	27	281	39	475	638	119	57	280	28
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	614.9	98	997.2	106.1
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	39%	6%	8%	16%
Vol Thru, %	52%	73%	81%	77%
Vol Right, %	10%	21%	11%	8%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	1146	841	322	339
LT Vol	442	53	25	53
Through Vol	593	612	261	260
RT Vol	111	176	36	26
Lane Flow Rate	1232	904	346	365
Geometry Grp	1	1	1	1
Degree of Util (X)	3.141	2.272	0.892	0.932
Departure Headway (Hd)	12.591	14.564	22.09	21.72
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	308	262	170	171
Service Time	10.591	12.564	20.09	19.72
HCM Lane V/C Ratio	4	3.45	2.035	2.135
HCM Control Delay	997.2	614.9	98	106.1
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	80.7	44.1	6.4	6.9

Intersection	
Intersection Delay, s/veh	400.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	20	734	4	196	293	71	1	110	686	167	58	19
Future Vol, veh/h	20	734	4	196	293	71	1	110	686	167	58	19
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	22	798	4	213	318	77	1	120	746	182	63	21
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

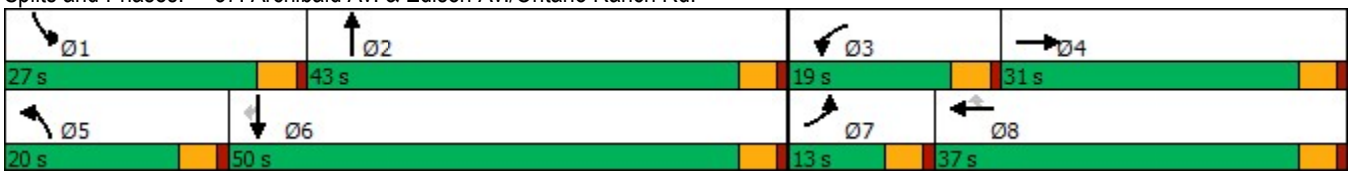
Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	503.4	280.1	490.3	59.8
HCM LOS	F	F	F	F

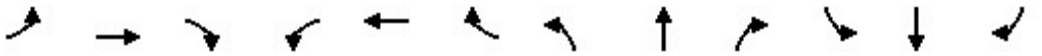
Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	3%	35%	68%
Vol Thru, %	14%	97%	52%	24%
Vol Right, %	86%	1%	13%	8%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	797	758	560	244
LT Vol	1	20	196	167
Through Vol	110	734	293	58
RT Vol	686	4	71	19
Lane Flow Rate	866	824	609	265
Geometry Grp	1	1	1	1
Degree of Util (X)	2.006	2.027	1.496	0.714
Departure Headway (Hd)	11.925	13.315	15.105	19.371
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	312	280	250	191
Service Time	9.925	11.315	13.105	17.371
HCM Lane V/C Ratio	2.776	2.943	2.436	1.387
HCM Control Delay	490.3	503.4	280.1	59.8
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	43.2	39.9	21.1	4.5

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	324	1131	299	377	402	116	108	1146	608	162	964	139
Future Volume (vph)	324	1131	299	377	402	116	108	1146	608	162	964	139
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	13.0	31.0		19.0	37.0	37.0	20.0	43.0		27.0	50.0	50.0
Total Split (%)	10.8%	25.8%		15.8%	30.8%	30.8%	16.7%	35.8%		22.5%	41.7%	41.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	8.5	26.5	114.8	14.5	32.6	32.6	12.6	38.8	114.8	16.9	43.1	43.1
Actuated g/C Ratio	0.07	0.23	1.00	0.13	0.28	0.28	0.11	0.34	1.00	0.15	0.38	0.38
v/c Ratio	1.52	1.43	0.21	1.03	0.83	0.23	0.65	0.99	0.42	0.72	0.75	0.22
Control Delay	290.1	235.1	0.3	104.4	54.5	5.5	66.4	62.6	0.8	63.9	35.6	5.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	290.1	235.1	0.3	104.4	54.5	5.5	66.4	62.6	0.8	63.9	35.6	5.8
LOS	F	F	A	F	D	A	E	E	A	E	D	A
Approach Delay		205.2			69.2			42.6			36.0	
Approach LOS		F			E			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 114.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.52	
Intersection Signal Delay: 94.7	Intersection LOS: F
Intersection Capacity Utilization 104.2%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	324	1131	299	377	402	116	108	1146	608	162	964	139
Future Volume (veh/h)	324	1131	299	377	402	116	108	1146	608	162	964	139
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	341	1191	0	397	423	80	114	1206	0	171	1015	127
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	233	858		397	526	445	139	1246		200	1382	586
Arrive On Green	0.08	0.24	0.00	0.13	0.29	0.29	0.09	0.35	0.00	0.12	0.38	0.38
Sat Flow, veh/h	3048	3600	1525	3048	1800	1524	1619	3600	1525	1619	3600	1525
Grp Volume(v), veh/h	341	1191	0	397	423	80	114	1206	0	171	1015	127
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1524	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	8.5	26.5	0.0	14.5	24.2	4.4	7.7	36.6	0.0	11.5	26.9	6.2
Cycle Q Clear(g_c), s	8.5	26.5	0.0	14.5	24.2	4.4	7.7	36.6	0.0	11.5	26.9	6.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	233	858		397	526	445	139	1246		200	1382	586
V/C Ratio(X)	1.46	1.39		1.00	0.80	0.18	0.82	0.97		0.86	0.73	0.22
Avail Cap(c_a), veh/h	233	858		397	526	445	226	1246		328	1473	624
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.4	42.4	0.0	48.3	36.4	29.4	50.0	35.7	0.0	47.8	29.4	23.0
Incr Delay (d2), s/veh	230.8	182.0	0.0	44.9	8.8	0.2	11.8	18.2	0.0	11.5	1.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.6	32.8	0.0	7.7	11.3	1.6	3.4	17.8	0.0	5.0	11.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	282.2	224.3	0.0	93.2	45.3	29.6	61.8	54.0	0.0	59.3	31.2	23.2
LnGrp LOS	F	F		F	D	C	E	D		E	C	C
Approach Vol, veh/h		1532	A		900			1320	A		1313	
Approach Delay, s/veh		237.2			65.0			54.6			34.1	
Approach LOS		F			E			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.2	43.0	19.0	31.0	14.0	47.2	13.0	37.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	22.5	38.5	14.5	26.5	15.5	45.5	8.5	32.5
Max Q Clear Time (g_c+I1), s	13.5	38.6	16.5	28.5	9.7	28.9	10.5	26.2
Green Ext Time (p_c), s	0.3	0.0	0.0	0.0	0.1	6.1	0.0	1.4

Intersection Summary	
HCM 6th Ctrl Delay	106.4
HCM 6th LOS	F

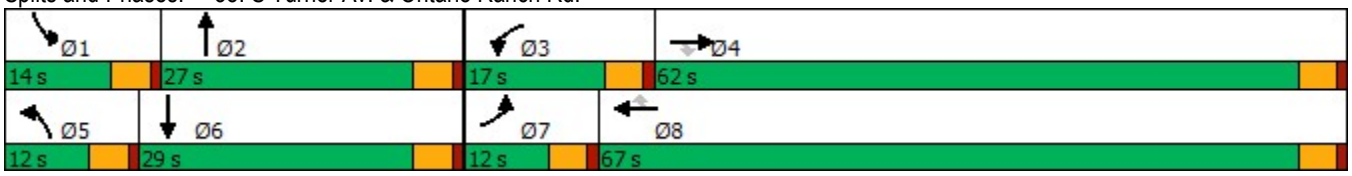
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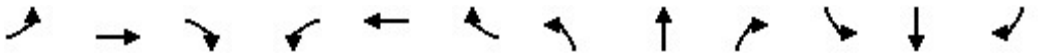
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	48	1850	48	60	1002	27	18	12	45	30
Future Volume (vph)	48	1850	48	60	1002	27	18	12	45	30
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	27.0	14.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	22.5%	11.7%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.0	58.9	58.9	8.9	60.7	60.7	6.5	8.2	7.8	13.7
Actuated g/C Ratio	0.07	0.61	0.61	0.09	0.63	0.63	0.07	0.08	0.08	0.14
v/c Ratio	0.40	0.91	0.05	0.39	0.48	0.03	0.16	0.26	0.33	0.20
Control Delay	56.7	27.6	0.1	52.1	12.7	0.0	50.6	24.3	52.6	28.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	56.7	27.6	0.1	52.1	12.7	0.0	50.6	24.3	52.6	28.6
LOS	E	C	A	D	B	A	D	C	D	C
Approach Delay		27.6			14.6			32.1		39.9
Approach LOS		C			B			C		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 96.8	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.91	
Intersection Signal Delay: 23.6	Intersection LOS: C
Intersection Capacity Utilization 67.8%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	48	1850	48	60	1002	27	18	12	30	45	30	20
Future Volume (veh/h)	48	1850	48	60	1002	27	18	12	30	45	30	20
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	52	1989	47	65	1077	26	19	13	20	48	32	20
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	76	2295	1024	85	2312	1031	39	41	63	73	87	54
Arrive On Green	0.04	0.64	0.64	0.05	0.64	0.64	0.02	0.06	0.06	0.04	0.08	0.08
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	675	1038	1810	1094	683
Grp Volume(v), veh/h	52	1989	47	65	1077	26	19	0	33	48	0	52
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1713	1810	0	1777
Q Serve(g_s), s	2.4	37.1	0.9	2.9	12.7	0.5	0.9	0.0	1.5	2.2	0.0	2.3
Cycle Q Clear(g_c), s	2.4	37.1	0.9	2.9	12.7	0.5	0.9	0.0	1.5	2.2	0.0	2.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.61	1.00		0.38
Lane Grp Cap(c), veh/h	76	2295	1024	85	2312	1031	39	0	103	73	0	141
V/C Ratio(X)	0.68	0.87	0.05	0.77	0.47	0.03	0.49	0.00	0.32	0.66	0.00	0.37
Avail Cap(c_a), veh/h	164	2501	1116	273	2719	1213	164	0	464	207	0	525
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	39.2	12.3	5.7	39.1	7.6	5.5	40.2	0.0	37.4	39.3	0.0	36.2
Incr Delay (d2), s/veh	10.3	3.3	0.0	13.4	0.1	0.0	9.3	0.0	1.8	9.6	0.0	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	11.8	0.2	1.6	3.7	0.1	0.5	0.0	0.7	1.1	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.5	15.5	5.7	52.5	7.8	5.5	49.5	0.0	39.1	48.9	0.0	37.9
LnGrp LOS	D	B	A	D	A	A	D	A	D	D	A	D
Approach Vol, veh/h		2088			1168			52			100	
Approach Delay, s/veh		16.2			10.2			42.9			43.2	
Approach LOS		B			B			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.8	9.5	8.4	57.3	6.3	11.1	8.0	57.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.5	22.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	4.2	3.5	4.9	39.1	2.9	4.3	4.4	14.7
Green Ext Time (p_c), s	0.0	0.1	0.1	13.7	0.0	0.2	0.0	9.0

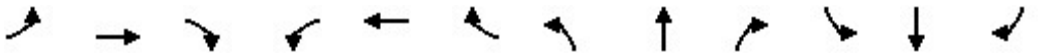
Intersection Summary	
HCM 6th Ctrl Delay	15.3
HCM 6th LOS	B

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	198	1656	38	243	964	212	19	198	75	216	337	69
Future Volume (vph)	198	1656	38	243	964	212	19	198	75	216	337	69
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	27.0	33.0	33.0	22.0	28.0	28.0	11.0	32.0	32.0	33.0	54.0	54.0
Total Split (%)	22.5%	27.5%	27.5%	18.3%	23.3%	23.3%	9.2%	26.7%	26.7%	27.5%	45.0%	45.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	17.6	29.3	29.3	13.7	25.4	25.4	6.2	17.1	17.1	19.3	37.1	37.1
Actuated g/C Ratio	0.18	0.30	0.30	0.14	0.26	0.26	0.06	0.17	0.17	0.20	0.38	0.38
v/c Ratio	0.73	1.21	0.07	0.63	0.64	0.42	0.19	0.68	0.20	0.73	0.53	0.11
Control Delay	55.2	133.1	0.3	48.8	36.9	7.7	54.1	50.6	1.1	51.9	27.8	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	55.2	133.1	0.3	48.8	36.9	7.7	54.1	50.6	1.1	51.9	27.8	0.3
LOS	E	F	A	D	D	A	D	D	A	D	C	A
Approach Delay		122.3			34.6			38.0			33.1	
Approach LOS		F			C			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 97.8	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.21	
Intersection Signal Delay: 73.9	Intersection LOS: E
Intersection Capacity Utilization 81.5%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	198	1656	38	243	964	212	19	198	75	216	337	69
Future Volume (veh/h)	198	1656	38	243	964	212	19	198	75	216	337	69
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	213	1781	26	261	1037	160	20	213	47	232	362	50
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	252	1689	524	342	1883	458	36	278	235	273	542	457
Arrive On Green	0.16	0.34	0.34	0.12	0.30	0.30	0.02	0.15	0.15	0.17	0.30	0.30
Sat Flow, veh/h	1619	4914	1525	2956	6192	1505	1619	1800	1522	1619	1800	1518
Grp Volume(v), veh/h	213	1781	26	261	1037	160	20	213	47	232	362	50
Grp Sat Flow(s),veh/h/ln	1619	1638	1525	1478	1548	1505	1619	1800	1522	1619	1800	1518
Q Serve(g_s), s	10.6	28.5	0.9	7.1	11.6	6.9	1.0	9.4	2.2	11.5	14.6	2.0
Cycle Q Clear(g_c), s	10.6	28.5	0.9	7.1	11.6	6.9	1.0	9.4	2.2	11.5	14.6	2.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	252	1689	524	342	1883	458	36	278	235	273	542	457
V/C Ratio(X)	0.85	1.05	0.05	0.76	0.55	0.35	0.55	0.77	0.20	0.85	0.67	0.11
Avail Cap(c_a), veh/h	439	1689	524	624	1883	458	127	597	505	557	1075	906
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.0	27.2	18.2	35.5	24.1	22.5	40.1	33.6	30.6	33.4	25.3	20.9
Incr Delay (d2), s/veh	7.6	37.8	0.0	3.5	0.3	0.5	12.7	4.4	0.4	7.2	1.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.4	15.6	0.3	2.5	3.8	2.2	0.5	4.2	0.8	4.8	5.9	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.7	65.0	18.2	39.1	24.5	22.9	52.8	38.0	31.0	40.7	26.8	21.0
LnGrp LOS	D	F	B	D	C	C	D	D	C	D	C	C
Approach Vol, veh/h		2020			1458			280			644	
Approach Delay, s/veh		61.9			26.9			37.9			31.3	
Approach LOS		E			C			D			C	

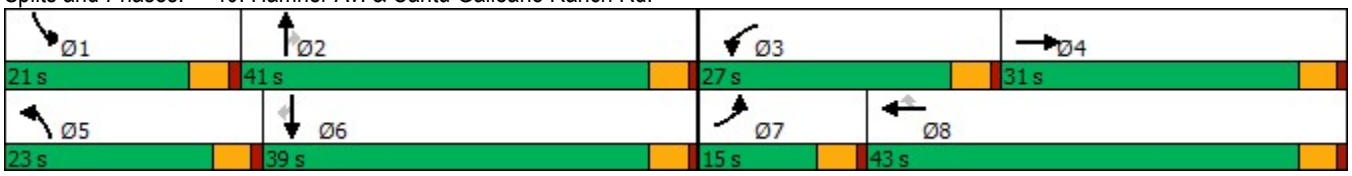
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.5	17.3	14.1	33.0	6.3	29.5	17.4	29.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	27.5	17.5	28.5	6.5	49.5	22.5	23.5
Max Q Clear Time (g_c+I1), s	13.5	11.4	9.1	30.5	3.0	16.6	12.6	13.6
Green Ext Time (p_c), s	0.5	1.0	0.5	0.0	0.0	2.2	0.4	4.7

Intersection Summary	
HCM 6th Ctrl Delay	44.3
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	170	1478	410	1034	166	329	399	323	265	558	109
Future Volume (vph)	170	1478	410	1034	166	329	399	323	265	558	109
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	27.0	43.0	43.0	23.0	41.0	41.0	21.0	39.0	39.0
Total Split (%)	12.5%	25.8%	22.5%	35.8%	35.8%	19.2%	34.2%	34.2%	17.5%	32.5%	32.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	9.7	28.8	17.8	36.9	36.9	15.2	25.1	25.1	13.3	23.3	23.3
Actuated g/C Ratio	0.09	0.28	0.17	0.36	0.36	0.15	0.24	0.24	0.13	0.23	0.23
v/c Ratio	0.55	1.03	0.72	0.84	0.26	0.67	0.33	0.52	0.62	0.72	0.25
Control Delay	53.6	65.4	48.6	39.1	7.7	50.0	33.2	6.6	50.4	43.0	5.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.6	65.4	48.6	39.1	7.7	50.0	33.2	6.6	50.4	43.0	5.1
LOS	D	E	D	D	A	D	C	A	D	D	A
Approach Delay		64.4		38.3			30.3			40.6	
Approach LOS		E		D			C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 103.3	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.03	
Intersection Signal Delay: 46.3	Intersection LOS: D
Intersection Capacity Utilization 77.6%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	170	1478	281	410	1034	166	329	399	323	265	558	109
Future Volume (veh/h)	170	1478	281	410	1034	166	329	399	323	265	558	109
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	179	1556	239	432	1088	109	346	420	256	279	587	74
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	259	1721	264	540	1368	610	445	1225	380	372	778	347
Arrive On Green	0.07	0.30	0.30	0.15	0.38	0.38	0.13	0.24	0.24	0.11	0.22	0.22
Sat Flow, veh/h	3510	5759	884	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	179	1324	471	432	1088	109	346	420	256	279	587	74
Grp Sat Flow(s),veh/h/ln	1755	1634	1741	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	4.4	22.8	22.8	10.4	23.5	4.0	8.4	5.9	12.7	6.8	13.4	3.3
Cycle Q Clear(g_c), s	4.4	22.8	22.8	10.4	23.5	4.0	8.4	5.9	12.7	6.8	13.4	3.3
Prop In Lane	1.00		0.51	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	259	1465	520	540	1368	610	445	1225	380	372	778	347
V/C Ratio(X)	0.69	0.90	0.90	0.80	0.80	0.18	0.78	0.34	0.67	0.75	0.75	0.21
Avail Cap(c_a), veh/h	420	1481	526	900	1584	707	740	2158	670	660	1420	633
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.7	29.5	29.6	35.8	24.2	18.1	37.1	27.9	30.4	38.1	32.2	28.3
Incr Delay (d2), s/veh	3.3	8.1	19.0	2.8	2.5	0.1	3.0	0.2	2.1	3.0	1.5	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.9	9.0	11.2	4.3	9.1	1.3	3.5	2.3	4.7	2.9	5.5	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.9	37.7	48.6	38.6	26.8	18.3	40.1	28.0	32.5	41.1	33.8	28.6
LnGrp LOS	D	D	D	D	C	B	D	C	C	D	C	C
Approach Vol, veh/h		1974			1629			1022			940	
Approach Delay, s/veh		40.8			29.3			33.2			35.5	
Approach LOS		D			C			C			D	

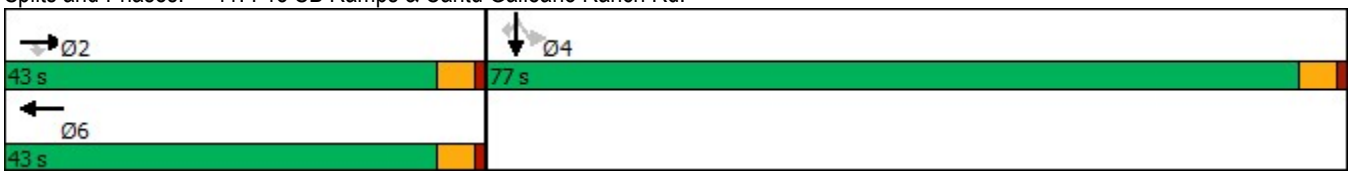
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.8	25.2	18.0	30.7	15.6	23.4	11.0	37.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	36.5	22.5	26.5	18.5	34.5	10.5	38.5
Max Q Clear Time (g_c+I1), s	8.8	14.7	12.4	24.8	10.4	15.4	6.4	25.5
Green Ext Time (p_c), s	0.5	3.3	1.1	1.4	0.7	3.5	0.2	5.8

Intersection Summary	
HCM 6th Ctrl Delay	35.1
HCM 6th LOS	D

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	1983	383	703	154	332	1	1531
Future Volume (vph)	1983	383	703	154	332	1	1531
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	43.0	43.0	43.0		77.0	77.0	77.0
Total Split (%)	35.8%	35.8%	35.8%		64.2%	64.2%	64.2%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	38.7	38.7	38.7	116.1	68.4	68.4	68.4
Actuated g/C Ratio	0.33	0.33	0.33	1.00	0.59	0.59	0.59
v/c Ratio	1.22	0.57	0.62	0.06	0.31	0.94	0.90
Control Delay	139.8	15.5	36.2	0.0	12.8	39.8	33.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	139.8	15.5	36.2	0.0	12.8	39.8	33.9
LOS	F	B	D	A	B	D	C
Approach Delay	119.7		29.7			33.0	
Approach LOS	F		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.1	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.22	
Intersection Signal Delay: 72.8	Intersection LOS: E
Intersection Capacity Utilization 90.1%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	1983	383	0	703	154	0	0	0	332	1	1531
Future Volume (veh/h)	0	1983	383	0	703	154	0	0	0	332	1	1531
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	2110	0	0	748	0				236	0	1444
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94				0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	2053		0	1429					926	0	1647
Arrive On Green	0.00	0.40	0.00	0.00	0.40	0.00				0.51	0.00	0.51
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	2110	0	0	748	0				236	0	1444
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	38.5	0.0	0.0	15.4	0.0				7.1	0.0	38.6
Cycle Q Clear(g_c), s	0.0	38.5	0.0	0.0	15.4	0.0				7.1	0.0	38.6
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2053		0	1429					926	0	1647
V/C Ratio(X)	0.00	1.03		0.00	0.52					0.25	0.00	0.88
Avail Cap(c_a), veh/h	0	2053		0	1429					1349	0	2401
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	29.4	0.0	0.0	22.4	0.0				13.3	0.0	21.0
Incr Delay (d2), s/veh	0.0	27.3	0.0	0.0	0.3	0.0				0.1	0.0	2.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	19.1	0.0	0.0	5.9	0.0				2.6	0.0	13.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	56.6	0.0	0.0	22.7	0.0				13.5	0.0	23.8
LnGrp LOS	A	F		A	C					B	A	C
Approach Vol, veh/h		2110	A		748	A					1680	
Approach Delay, s/veh		56.6			22.7						22.4	
Approach LOS		E			C						C	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	43.0	54.2	43.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	38.5	72.5	38.5
Max Q Clear Time (g_c+I1), s	40.5	40.6	17.4
Green Ext Time (p_c), s	0.0	9.1	4.4

Intersection Summary	
HCM 6th Ctrl Delay	38.4
HCM 6th LOS	D

Notes

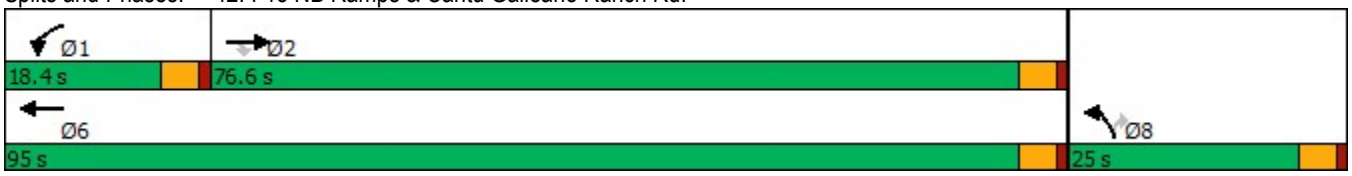
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	833	1483	241	464	392	169
Future Volume (vph)	833	1483	241	464	392	169
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	76.6	76.6	18.4	95.0	25.0	25.0
Total Split (%)	63.8%	63.8%	15.3%	79.2%	20.8%	20.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	72.2	72.2	12.5	89.2	18.0	18.0
Actuated g/C Ratio	0.62	0.62	0.11	0.77	0.15	0.15
v/c Ratio	0.25	1.23	0.65	0.11	0.76	0.41
Control Delay	10.4	125.6	58.4	3.6	56.3	10.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	10.4	125.6	58.4	3.6	56.3	10.1
LOS	B	F	E	A	E	B
Approach Delay	84.1			22.4	43.8	
Approach LOS	F			C	D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.2	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.23	
Intersection Signal Delay: 65.7	Intersection LOS: E
Intersection Capacity Utilization 106.2%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	833	1483	241	464	392	169
Future Volume (veh/h)	833	1483	241	464	392	169
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	868	1024	251	483	408	93
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	3710	1048	322	4451	496	221
Arrive On Green	0.65	0.65	0.09	0.78	0.14	0.14
Sat Flow, veh/h	5700	1610	3619	5700	3619	1610
Grp Volume(v), veh/h	868	1024	251	483	408	93
Grp Sat Flow(s),veh/h/ln	1900	1610	1810	1900	1810	1610
Q Serve(g_s), s	6.9	66.9	7.4	2.2	12.0	5.8
Cycle Q Clear(g_c), s	6.9	66.9	7.4	2.2	12.0	5.8
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	3710	1048	322	4451	496	221
V/C Ratio(X)	0.23	0.98	0.78	0.11	0.82	0.42
Avail Cap(c_a), veh/h	3746	1058	459	4702	676	301
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	7.9	18.4	48.9	2.9	46.0	43.4
Incr Delay (d2), s/veh	0.0	22.1	5.4	0.0	5.9	1.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	25.1	3.4	0.5	5.6	2.3
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	7.9	40.5	54.4	2.9	52.0	44.6
LnGrp LOS	A	D	D	A	D	D
Approach Vol, veh/h	1892			734	501	
Approach Delay, s/veh	25.5			20.5	50.6	
Approach LOS	C			C	D	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	14.3	75.9				90.2	19.5
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	13.9	72.1				90.5	20.5
Max Q Clear Time (g_c+I1), s	9.4	68.9				4.2	14.0
Green Ext Time (p_c), s	0.3	2.5				3.0	1.0

Intersection Summary	
HCM 6th Ctrl Delay	28.4
HCM 6th LOS	C

Notes

User approved volume balancing among the lanes for turning movement.

APPENDIX 6.3: OPENING YEAR CUMULATIVE (2027) WITH PROJECT CONDITIONS TRAFFIC SIGNAL WARRANT OPERATIONS ANALYSIS WORKSHEETS

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Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		OYC (2027) WP
				CALC JB	DATE	01/11/23
Jurisdiction: City of Ontario				CHK JB	DATE	01/11/23
Major Street: Schaefer Av.				Critical Approach Speed (Major)		45 mph
Minor Street: Driveway 6				Critical Approach Speed (Minor)		25 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **6,278** vpd Minor Street Future ADT = **113** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches)		Minimum Requirements EADT: Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
CONDITION A - Minimum Vehicular Volume				
Satisfied / Not Satisfied: XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **6,278** / 1 **113**	8,000	5,600 *	2,400	1,680
2 + / 1	9,600	6,720	2,400	1,680
2 + / 2 +	9,600	6,720	3,200	2,240
1 / 2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic				
Satisfied / Not Satisfied: XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **6,278** / 1 **113**	12,000	8,400	1,200	850
2 + / 1	14,400	10,080	1,200	850
2 + / 2 +	14,400	10,080	1,600	1,120
1 / 2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied / Not Satisfied: XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 7% B: 13%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM		TRAFFIC CONDITIONS		OYC (2027) WP
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Schaefer Av.				Critical Approach Speed (Major)		45 mph
Minor Street:	Sultana Av.				Critical Approach Speed (Minor)		45 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **6,342** vpd Minor Street Future ADT = **138** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... [√]

or

In built up area of isolated community of < 10,000 population ..... [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **6,342**	*1* **138**	8,000	5,600 *	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **6,342**	*1* **138**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied				
	XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more	A / B				
	8% / 16%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	OYC (2027) WP
				CALC JB	DATE 01/11/23
				CHK JB	DATE 01/11/23

Jurisdiction: **City of Ontario**
Major Street: **Sultana Av.**
Minor Street: **Driveway 11**
Critical Approach Speed (Major) 45 mph
Critical Approach Speed (Minor) 25 mph

Major Street Approach Lanes = **1** lane
Minor Street Approach Lanes **1** lane

Major Street Future ADT = **313** vpd
Minor Street Future ADT = **167** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √
or
In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **313**	1 **167**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach

Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches) Urban	Rural	Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only) Urban	Rural
1 **313**	1 **167**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 6% B: 4%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		OYC (2027) WP
				CALC JB	DATE	01/11/23
Jurisdiction: City of Ontario				CHK JB	DATE	01/11/23
Major Street: Sultana Av.				Critical Approach Speed (Major)		45 mph
Minor Street: Driveway 12				Critical Approach Speed (Minor)		25 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **346** vpd Minor Street Future ADT = **56** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **346**	1 **56**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **346**	1 **56**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied				
	XX				
No one condition satisfied, but following conditions fulfilled 80% of more ..... A 3% B 4%		2 CONDITIONS 80%		2 CONDITIONS 80%	

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	OYC (2027) WP
				CALC JB	DATE 01/11/23
				CHK JB	DATE 01/11/23

Jurisdiction: **City of Ontario**
Major Street: **Sultana Av.**
Minor Street: **Driveway 13**
Critical Approach Speed (Major) 45 mph
Critical Approach Speed (Minor) 25 mph

Major Street Approach Lanes = **1** lane
Minor Street Approach Lanes **1** lane

Major Street Future ADT = **349** vpd
Minor Street Future ADT = **56** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √
or
In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **349**	*1* **56**	8,000	5,600	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **349**	*1* **56**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied				
	XX				
No one condition satisfied, but following conditions fulfilled 80% of more ..... **A** 3% **B** 4%		2 CONDITIONS 80%		2 CONDITIONS 80%	

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	OYC (2027) WP
				CALC JB	DATE 01/11/23
				CHK JB	DATE 01/11/23

Jurisdiction: City of Ontario
Major Street: Sultana Av.
Minor Street: Driveway 14
Critical Approach Speed (Major) 45 mph
Critical Approach Speed (Minor) 25 mph

Major Street Approach Lanes = 1 lane
Minor Street Approach Lanes 1 lane

Major Street Future ADT = 408 vpd
Minor Street Future ADT = 52 vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √
or
In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches)		Minimum Requirements EADT: Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
CONDITION A - Minimum Vehicular Volume				
Satisfied / Not Satisfied XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **408** / 1 **52**	8,000	5,600	2,400	1,680
2 + / 1	9,600	6,720	2,400	1,680
2 + / 2 +	9,600	6,720	3,200	2,240
1 / 2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic				
Satisfied / Not Satisfied XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **408** / 1 **52**	12,000	8,400	1,200	850
2 + / 1	14,400	10,080	1,200	850
2 + / 2 +	14,400	10,080	1,600	1,120
1 / 2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied / Not Satisfied XX				
No one condition satisfied, but following conditions fulfilled 80% of more ..... A 3% B 5%	2 CONDITIONS 80%		2 CONDITIONS 80%	

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM		TRAFFIC CONDITIONS		OYC (2027) WP
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Sultana Av.				Critical Approach Speed (Major)		45 mph
Minor Street:	Driveway 15				Critical Approach Speed (Minor)		25 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **627** vpd Minor Street Future ADT = **186** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **627**	*1* **186**	8,000	5,600	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **627**	*1* **186**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied				
	XX				
No one condition satisfied, but following conditions fulfilled 80% of more ..... **A** 11% **B** 7%		2 CONDITIONS 80%		2 CONDITIONS 80%	

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

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APPENDIX 6.4: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT CONDITIONS OFF-RAMP QUEUING ANALYSIS WORKSHEETS

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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	445	447	393	608	1034	1085	417
v/c Ratio	0.93	0.97	0.76	1.27	0.45	0.91	0.54
Control Delay	68.8	77.8	37.0	177.0	12.5	51.2	8.3
Queue Delay	4.6	8.0	0.0	0.0	0.5	0.0	0.0
Total Delay	73.3	85.7	37.0	177.0	13.0	51.2	8.3
Queue Length 50th (ft)	351	371	204	~619	198	422	31
Queue Length 95th (ft)	#557	#602	335	m#708	m212	#551	119
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	485	465	523	478	2281	1188	772
Starvation Cap Reductn	0	0	0	0	741	0	0
Spillback Cap Reductn	19	18	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.95	1.00	0.75	1.27	0.67	0.91	0.54

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	396	1065	1135	859	424	1422
v/c Ratio	0.79	2.17	0.95	0.92	0.92	0.63
Control Delay	52.1	555.6	55.9	26.0	67.0	17.6
Queue Delay	56.4	5.2	2.3	0.0	1.6	1.6
Total Delay	108.6	560.9	58.2	26.0	68.5	19.2
Queue Length 50th (ft)	297	~1369	~467	212	354	319
Queue Length 95th (ft)	#454	#1642	#620	#529	m384	m375
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	500	491	1199	938	496	2241
Starvation Cap Reductn	0	0	0	0	16	594
Spillback Cap Reductn	212	198	26	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	1.38	3.63	0.97	0.92	0.88	0.86

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	1195	374	866	208	290	925	929
v/c Ratio	0.92	0.55	0.95	0.07	0.25	0.93	0.90
Control Delay	54.5	7.4	64.2	0.0	7.9	33.7	28.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	54.5	7.4	64.2	0.0	7.9	33.7	28.8
Queue Length 50th (ft)	337	2	~361	0	80	586	533
Queue Length 95th (ft)	#436	83	#500	0	120	#1006	#937
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	1304	683	908	2842	1249	1078	1121
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.92	0.55	0.95	0.07	0.23	0.86	0.83

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	472	937	218	493	635	293
v/c Ratio	0.23	0.88	0.45	0.16	0.67	0.48
Control Delay	14.2	15.4	39.2	6.2	32.4	7.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	14.2	15.4	39.2	6.2	32.4	7.6
Queue Length 50th (ft)	52	86	48	34	124	0
Queue Length 95th (ft)	77	290	121	46	#353	85
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	4451	1485	735	4917	1120	671
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.63	0.30	0.10	0.57	0.44

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	416	414	352	928	1013	960	494
v/c Ratio	0.87	0.91	0.67	1.92	0.44	0.79	0.57
Control Delay	60.0	65.1	29.3	448.8	11.0	40.1	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Total Delay	60.0	65.1	29.3	448.8	11.6	40.1	5.2
Queue Length 50th (ft)	323	337	155	~1125	187	341	0
Queue Length 95th (ft)	#510	#545	271	#1374	231	421	73
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	504	482	548	483	2455	1346	912
Starvation Cap Reductn	0	0	0	0	957	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.83	0.86	0.64	1.92	0.68	0.71	0.54

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	286	597	1663	708	388	1393
v/c Ratio	0.60	1.25	1.27	0.86	0.89	0.60
Control Delay	43.2	161.7	162.1	26.0	65.5	13.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	1.9
Total Delay	43.2	161.7	162.1	26.0	65.5	15.3
Queue Length 50th (ft)	204	~580	~871	239	283	296
Queue Length 95th (ft)	304	#817	#1010	#495	#439	356
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	479	478	1306	827	486	2418
Starvation Cap Reductn	0	0	0	0	0	823
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.60	1.25	1.27	0.86	0.80	0.87

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	2076	386	737	164	318	827	823
v/c Ratio	1.19	0.55	0.61	0.06	0.32	0.93	0.90
Control Delay	127.3	14.8	35.5	0.0	12.9	39.0	33.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	127.3	14.8	35.5	0.0	12.9	39.0	33.3
Queue Length 50th (ft)	~734	82	255	0	118	553	502
Queue Length 95th (ft)	#830	184	323	0	174	#905	#831
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	1743	706	1213	2842	1085	954	988
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	1.19	0.55	0.61	0.06	0.29	0.87	0.83

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	865	1515	251	482	417	158
v/c Ratio	0.27	1.21	0.66	0.12	0.77	0.44
Control Delay	10.7	115.5	59.2	3.7	56.9	10.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	10.7	115.5	59.2	3.7	56.9	10.7
Queue Length 50th (ft)	106	~1209	95	30	156	0
Queue Length 95th (ft)	134	#1495	141	41	212	64
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	3217	1257	418	4038	618	389
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.27	1.21	0.60	0.12	0.67	0.41

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

APPENDIX 6.5: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS WITH IMPROVEMENTS

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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	453	453	393	619	1035	1088	417
v/c Ratio	0.93	0.97	0.75	1.31	0.46	0.92	0.54
Control Delay	69.9	78.5	36.6	191.5	12.6	51.5	8.3
Queue Delay	5.7	9.2	0.0	0.0	0.5	0.0	0.0
Total Delay	75.6	87.6	36.6	191.5	13.1	51.5	8.3
Queue Length 50th (ft)	360	378	204	~636	198	424	32
Queue Length 95th (ft)	#573	#616	335	m#718	m210	#553	120
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	485	465	523	473	2271	1188	771
Starvation Cap Reductn	0	0	0	0	744	0	0
Spillback Cap Reductn	19	18	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.97	1.01	0.75	1.31	0.68	0.92	0.54

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	396	1081	1146	867	424	1438
v/c Ratio	0.79	2.20	0.96	0.92	0.92	0.64
Control Delay	52.1	570.0	57.4	27.3	66.3	17.8
Queue Delay	56.8	5.5	3.2	0.0	1.6	1.7
Total Delay	108.9	575.5	60.6	27.3	67.9	19.5
Queue Length 50th (ft)	297	~1397	~480	224	353	326
Queue Length 95th (ft)	#454	#1670	#629	#542	m380	m378
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	500	491	1199	938	496	2241
Starvation Cap Reductn	0	0	0	0	16	593
Spillback Cap Reductn	220	205	29	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	1.41	3.78	0.98	0.92	0.88	0.87

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	1208	381	890	208	290	939	945
v/c Ratio	0.94	0.56	0.99	0.07	0.25	0.94	0.91
Control Delay	57.7	7.7	72.8	0.0	7.9	35.0	30.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.7	7.7	72.8	0.0	7.9	35.0	30.0
Queue Length 50th (ft)	342	5	~391	0	80	610	557
Queue Length 95th (ft)	#444	88	#521	0	120	#1034	#965
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	1288	681	897	2842	1233	1064	1107
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.94	0.56	0.99	0.07	0.24	0.88	0.85

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	473	948	218	496	650	297
v/c Ratio	0.23	0.89	0.46	0.16	0.67	0.48
Control Delay	14.4	16.3	40.3	6.4	33.0	7.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	14.4	16.3	40.3	6.4	33.0	7.5
Queue Length 50th (ft)	53	98	50	35	132	0
Queue Length 95th (ft)	77	304	123	46	#376	86
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	4402	1476	711	4885	1085	661
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.11	0.64	0.31	0.10	0.60	0.45

Intersection Summary

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	421	419	352	948	1016	961	494
v/c Ratio	0.88	0.91	0.67	1.97	0.44	0.79	0.57
Control Delay	60.9	66.2	29.4	469.4	11.1	40.2	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Total Delay	60.9	66.2	29.4	469.4	11.7	40.2	5.2
Queue Length 50th (ft)	328	342	156	~1158	188	342	0
Queue Length 95th (ft)	#518	#556	272	#1408	232	422	73
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	502	481	546	481	2449	1343	911
Starvation Cap Reductn	0	0	0	0	956	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.84	0.87	0.64	1.97	0.68	0.72	0.54

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	286	612	1685	724	388	1404
v/c Ratio	0.60	1.29	1.29	0.87	0.89	0.60
Control Delay	43.2	176.5	169.2	27.7	65.5	13.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	2.0
Total Delay	43.2	176.5	169.2	27.7	65.5	15.5
Queue Length 50th (ft)	204	~608	~889	254	283	300
Queue Length 95th (ft)	304	#850	#1029	#517	#439	362
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	479	476	1306	830	486	2418
Starvation Cap Reductn	0	0	0	0	0	819
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.60	1.29	1.29	0.87	0.80	0.88

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

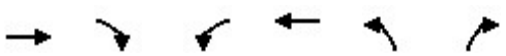


Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	2110	407	748	164	318	834	831
v/c Ratio	1.22	0.57	0.62	0.06	0.31	0.94	0.90
Control Delay	139.8	15.5	36.2	0.0	12.8	39.8	33.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	139.8	15.5	36.2	0.0	12.8	39.8	33.9
Queue Length 50th (ft)	~754	92	260	0	118	567	514
Queue Length 95th (ft)	#850	198	328	0	174	#921	#848
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	1728	709	1203	2842	1076	944	980
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	1.22	0.57	0.62	0.06	0.30	0.88	0.85

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	868	1545	251	483	426	158
v/c Ratio	0.27	1.23	0.66	0.12	0.78	0.44
Control Delay	10.8	126.4	59.3	3.7	57.5	10.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	10.8	126.4	59.3	3.7	57.5	10.7
Queue Length 50th (ft)	108	~1262	95	30	161	0
Queue Length 95th (ft)	135	#1544	141	41	217	64
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	3212	1256	418	4032	618	389
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.27	1.23	0.60	0.12	0.69	0.41

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

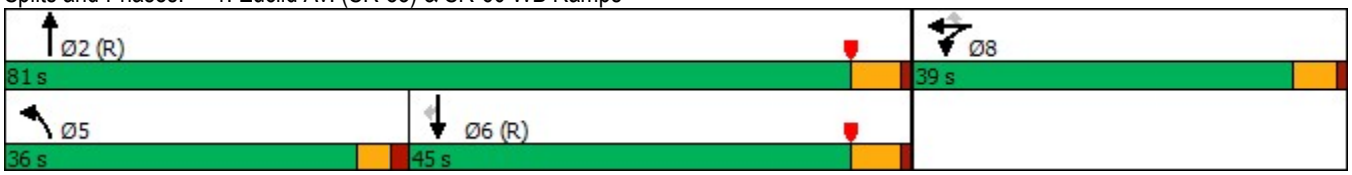
APPENDIX 6.6: OPENING YEAR CUMULATIVE (2027) WITHOUT PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS WITH IMPROVEMENTS

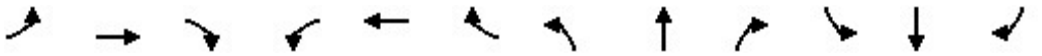
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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	781	7	406	565	962	1009	388
Future Volume (vph)	781	7	406	565	962	1009	388
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5	22.5
Total Split (s)	39.0	39.0	39.0	36.0	81.0	45.0	45.0
Total Split (%)	32.5%	32.5%	32.5%	30.0%	67.5%	37.5%	37.5%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5	5.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min
Act Effct Green (s)	33.7	33.7	33.7	25.2	75.8	46.1	46.1
Actuated g/C Ratio	0.28	0.28	0.28	0.21	0.63	0.38	0.38
v/c Ratio	0.93	0.97	0.76	0.83	0.45	0.78	0.50
Control Delay	68.8	77.8	37.0	68.9	9.7	38.2	7.3
Queue Delay	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Total Delay	68.8	77.8	37.0	68.9	9.9	38.2	7.3
LOS	E	E	D	E	A	D	A
Approach Delay		62.2			31.8	29.6	
Approach LOS		E			C	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 39.9	Intersection LOS: D
Intersection Capacity Utilization 97.8%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	781	7	406	565	962	0	0	1009	388
Future Volume (veh/h)	0	0	0	781	7	406	565	962	0	0	1009	388
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				926	0	180	608	1034	0	0	1085	250
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				986	0	439	664	2311	0	0	1493	666
Arrive On Green				0.27	0.00	0.27	0.38	1.00	0.00	0.00	0.41	0.41
Sat Flow, veh/h				3619	0	1610	3510	3705	0	0	3705	1610
Grp Volume(v), veh/h				926	0	180	608	1034	0	0	1085	250
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1755	1805	0	0	1805	1610
Q Serve(g_s), s				30.0	0.0	11.0	19.8	0.0	0.0	0.0	30.2	12.9
Cycle Q Clear(g_c), s				30.0	0.0	11.0	19.8	0.0	0.0	0.0	30.2	12.9
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				986	0	439	664	2311	0	0	1493	666
V/C Ratio(X)				0.94	0.00	0.41	0.92	0.45	0.00	0.00	0.73	0.38
Avail Cap(c_a), veh/h				1025	0	456	922	2311	0	0	1493	666
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.58	0.58	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				42.7	0.0	35.8	36.4	0.0	0.0	0.0	29.5	24.4
Incr Delay (d2), s/veh				15.0	0.0	0.2	5.6	0.4	0.0	0.0	3.1	1.6
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				14.9	0.0	4.2	7.0	0.1	0.0	0.0	13.2	5.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				57.7	0.0	36.0	41.9	0.4	0.0	0.0	32.6	26.1
LnGrp LOS				E	A	D	D	A	A	A	C	C
Approach Vol, veh/h					1106			1642			1335	
Approach Delay, s/veh					54.2			15.8			31.4	
Approach LOS					D			B			C	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	82.3		27.2	55.1		37.7						
Change Period (Y+Rc), s	5.5		4.5	5.5		5.0						
Max Green Setting (Gmax), s	75.5		31.5	39.5		34.0						
Max Q Clear Time (g_c+I1), s	2.0		21.8	32.2		32.0						
Green Ext Time (p_c), s	14.1		0.9	5.2		0.7						

Intersection Summary		
HCM 6th Ctrl Delay	31.3	
HCM 6th LOS	C	

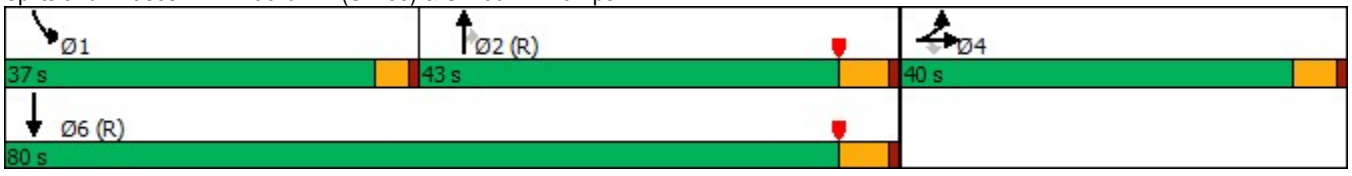
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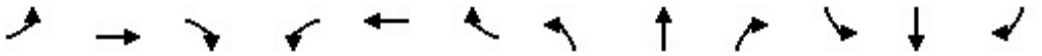
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Configurations							
Traffic Volume (vph)	427	0	990	1101	833	411	1379
Future Volume (vph)	427	0	990	1101	833	411	1379
Turn Type	Split	NA	Perm	NA	Perm	Prot	NA
Protected Phases	4	4		2		1	6
Permitted Phases			4		2		
Detector Phase	4	4	4	2	2	1	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	40.0	40.0	40.0	43.0	43.0	37.0	80.0
Total Split (%)	33.3%	33.3%	33.3%	35.8%	35.8%	30.8%	66.7%
Yellow Time (s)	4.0	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag				Lag	Lag	Lead	
Lead-Lag Optimize?				Yes	Yes	Yes	
Recall Mode	None	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	35.0	35.0	35.0	51.5	51.5	19.0	74.5
Actuated g/C Ratio	0.29	0.29	0.29	0.43	0.43	0.16	0.62
v/c Ratio	0.79	1.13	1.09	0.73	0.83	0.77	0.63
Control Delay	52.1	116.3	102.2	32.7	16.1	55.9	16.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.9
Total Delay	52.1	116.3	102.2	32.7	16.1	55.9	17.5
LOS	D	F	F	C	B	E	B
Approach Delay		93.8		25.5			26.3
Approach LOS		F		C			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 80	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.13	
Intersection Signal Delay: 44.6	Intersection LOS: D
Intersection Capacity Utilization 97.8%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	427	0	990	0	0	0	0	1101	833	411	1379	0
Future Volume (veh/h)	427	0	990	0	0	0	0	1101	833	411	1379	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	293	0	1099				0	1135	664	424	1422	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	528	0	939				0	1623	713	484	2241	0
Arrive On Green	0.29	0.00	0.29				0.00	0.45	0.45	0.28	1.00	0.00
Sat Flow, veh/h	1810	0	3220				0	3705	1586	3510	3705	0
Grp Volume(v), veh/h	293	0	1099				0	1135	664	424	1422	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1586	1755	1805	0
Q Serve(g_s), s	16.4	0.0	35.0				0.0	30.3	47.6	13.8	0.0	0.0
Cycle Q Clear(g_c), s	16.4	0.0	35.0				0.0	30.3	47.6	13.8	0.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	528	0	939				0	1623	713	484	2241	0
V/C Ratio(X)	0.56	0.00	1.17				0.00	0.70	0.93	0.88	0.63	0.00
Avail Cap(c_a), veh/h	528	0	939				0	1623	713	965	2241	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.57	0.57	0.46	0.46	0.00
Uniform Delay (d), s/veh	35.9	0.0	42.5				0.0	26.5	31.3	42.5	0.0	0.0
Incr Delay (d2), s/veh	0.8	0.0	88.0				0.0	1.5	13.6	0.9	0.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	0.0	24.8				0.0	12.8	19.8	5.1	0.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.7	0.0	130.5				0.0	28.0	44.9	43.4	0.6	0.0
LnGrp LOS	D	A	F				A	C	D	D	A	A
Approach Vol, veh/h		1392						1799			1846	
Approach Delay, s/veh		110.8						34.2			10.5	
Approach LOS		F						C			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	20.6	59.4		40.0		80.0
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	33.0	37.5		35.0		74.5
Max Q Clear Time (g_c+I1), s	15.8	49.6		37.0		2.0
Green Ext Time (p_c), s	0.7	0.0		0.0		24.9

Intersection Summary		
HCM 6th Ctrl Delay		46.7
HCM 6th LOS		D

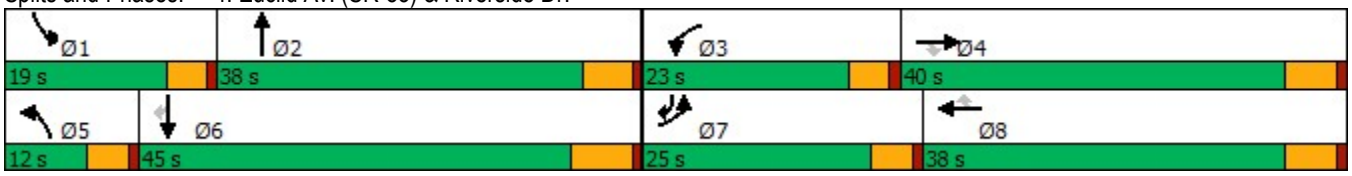
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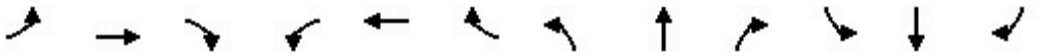
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	184	357	131	237	506	108	66	1234	243	1869	131
Future Volume (vph)	184	357	131	237	506	108	66	1234	243	1869	131
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	1	6	7
Permitted Phases			4			8					6
Detector Phase	7	4	4	3	8	8	5	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	25.8	9.6	31.8	31.8	9.6	30.4	9.6	34.5	9.6
Total Split (s)	25.0	40.0	40.0	23.0	38.0	38.0	12.0	38.0	19.0	45.0	25.0
Total Split (%)	20.8%	33.3%	33.3%	19.2%	31.7%	31.7%	10.0%	31.7%	15.8%	37.5%	20.8%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min	None
Act Effct Green (s)	16.0	20.6	20.6	18.5	23.0	23.0	7.0	32.8	14.5	41.3	63.9
Actuated g/C Ratio	0.15	0.19	0.19	0.17	0.22	0.22	0.07	0.31	0.14	0.39	0.60
v/c Ratio	0.78	0.55	0.32	0.87	0.70	0.25	0.63	0.91	1.14	1.00	0.14
Control Delay	65.8	41.6	5.5	73.7	44.6	3.0	77.0	46.5	145.8	56.1	3.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	65.8	41.6	5.5	73.7	44.6	3.0	77.0	46.5	145.8	56.1	3.2
LOS	E	D	A	E	D	A	E	D	F	E	A
Approach Delay		41.2			47.5			48.0		62.7	
Approach LOS		D			D			D		E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 106.8	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.14	
Intersection Signal Delay: 53.4	Intersection LOS: D
Intersection Capacity Utilization 86.6%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	184	357	131	237	506	108	66	1234	104	243	1869	131
Future Volume (veh/h)	184	357	131	237	506	108	66	1234	104	243	1869	131
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	188	364	107	242	516	58	67	1259	64	248	1907	79
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	218	554	244	271	665	292	83	1465	74	237	1969	817
Arrive On Green	0.13	0.16	0.16	0.17	0.19	0.19	0.05	0.31	0.31	0.15	0.40	0.40
Sat Flow, veh/h	1619	3420	1505	1619	3420	1501	1619	4789	243	1619	4914	1525
Grp Volume(v), veh/h	188	364	107	242	516	58	67	861	462	248	1907	79
Grp Sat Flow(s),veh/h/ln	1619	1710	1505	1619	1710	1501	1619	1638	1756	1619	1638	1525
Q Serve(g_s), s	11.2	9.8	6.3	14.4	14.1	3.2	4.0	24.3	24.4	14.4	37.4	2.5
Cycle Q Clear(g_c), s	11.2	9.8	6.3	14.4	14.1	3.2	4.0	24.3	24.4	14.4	37.4	2.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.14	1.00		1.00
Lane Grp Cap(c), veh/h	218	554	244	271	665	292	83	1002	537	237	1969	817
V/C Ratio(X)	0.86	0.66	0.44	0.89	0.78	0.20	0.80	0.86	0.86	1.05	0.97	0.10
Avail Cap(c_a), veh/h	336	1189	523	303	1120	492	122	1086	582	237	1969	817
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.7	38.7	37.2	40.1	37.6	33.2	46.1	32.1	32.1	42.0	28.9	11.2
Incr Delay (d2), s/veh	8.7	1.3	1.2	23.6	2.0	0.3	13.2	6.7	11.7	71.1	13.6	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	4.0	2.3	7.2	5.8	1.1	1.8	9.7	11.1	10.2	16.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.3	40.0	38.4	63.7	39.6	33.5	59.4	38.9	43.8	113.0	42.4	11.2
LnGrp LOS	D	D	D	E	D	C	E	D	D	F	D	B
Approach Vol, veh/h		659			816			1390			2234	
Approach Delay, s/veh		42.7			46.3			41.5			49.2	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	36.6	21.0	21.7	9.7	45.9	17.8	24.9
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	14.4	* 33	18.4	34.2	7.4	38.5	20.4	32.2
Max Q Clear Time (g_c+I1), s	16.4	26.4	16.4	11.8	6.0	39.4	13.2	16.1
Green Ext Time (p_c), s	0.0	3.7	0.1	2.4	0.0	0.0	0.1	3.0

Intersection Summary	
HCM 6th Ctrl Delay	45.8
HCM 6th LOS	D

Notes

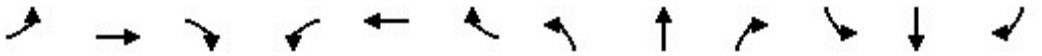
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	77	196	74	119	304	48	1250	132	87	2011	95
Future Volume (vph)	77	196	74	119	304	48	1250	132	87	2011	95
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	52.0	52.0	52.0	52.0	52.0	12.0	52.0	52.0	16.0	56.0	56.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	43.3%	10.0%	43.3%	43.3%	13.3%	46.7%	46.7%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8	5.8	5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	34.4	34.4	34.4	34.4	34.4	6.7	49.1	49.1	9.4	50.3	50.3
Actuated g/C Ratio	0.32	0.32	0.32	0.32	0.32	0.06	0.46	0.46	0.09	0.47	0.47
v/c Ratio	0.82	0.35	0.14	0.40	0.87	0.50	0.57	0.19	0.64	0.90	0.13
Control Delay	86.5	29.0	6.2	32.0	48.2	68.9	24.6	12.4	69.7	34.3	7.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	86.5	29.0	6.2	32.0	48.2	68.9	24.6	12.4	69.7	34.3	7.9
LOS	F	C	A	C	D	E	C	B	E	C	A
Approach Delay		36.9			44.9		25.0			34.6	
Approach LOS		D			D		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 106.1	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.90	
Intersection Signal Delay: 33.1	Intersection LOS: C
Intersection Capacity Utilization 100.2%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	77	196	74	119	304	169	48	1250	132	87	2011	95
Future Volume (veh/h)	77	196	74	119	304	169	48	1250	132	87	2011	95
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	80	204	56	124	317	175	50	1302	98	91	2095	62
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	160	674	571	363	408	225	62	2009	624	112	2160	671
Arrive On Green	0.37	0.37	0.37	0.37	0.37	0.37	0.04	0.41	0.41	0.07	0.44	0.44
Sat Flow, veh/h	822	1800	1525	1017	1090	602	1619	4914	1525	1619	4914	1525
Grp Volume(v), veh/h	80	204	56	124	0	492	50	1302	98	91	2095	62
Grp Sat Flow(s),veh/h/ln	822	1800	1525	1017	0	1692	1619	1638	1525	1619	1638	1525
Q Serve(g_s), s	10.9	9.2	2.7	11.2	0.0	29.4	3.5	24.4	4.6	6.3	47.7	2.7
Cycle Q Clear(g_c), s	40.2	9.2	2.7	20.4	0.0	29.4	3.5	24.4	4.6	6.3	47.7	2.7
Prop In Lane	1.00		1.00	1.00		0.36	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	160	674	571	363	0	633	62	2009	624	112	2160	671
V/C Ratio(X)	0.50	0.30	0.10	0.34	0.00	0.78	0.81	0.65	0.16	0.81	0.97	0.09
Avail Cap(c_a), veh/h	184	727	616	392	0	683	105	2009	624	161	2160	671
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.3	25.3	23.3	32.4	0.0	31.6	54.6	27.2	21.4	52.6	31.3	18.7
Incr Delay (d2), s/veh	2.4	0.3	0.1	0.6	0.0	5.3	8.8	1.6	0.5	12.2	13.5	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	3.8	1.0	2.7	0.0	12.3	1.5	9.0	1.6	2.8	19.5	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.7	25.5	23.3	33.0	0.0	36.9	63.4	28.8	21.9	64.8	44.8	19.0
LnGrp LOS	D	C	C	C	A	D	E	C	C	E	D	B
Approach Vol, veh/h		340			616			1450			2248	
Approach Delay, s/veh		31.3			36.1			29.6			44.9	
Approach LOS		C			D			C			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.5	53.3		48.7	9.0	56.8		48.7				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 47		46.2	7.4	49.5		46.2				
Max Q Clear Time (g_c+I1), s	8.3	26.4		42.2	5.5	49.7		31.4				
Green Ext Time (p_c), s	0.0	8.6		0.6	0.0	0.0		3.1				

Intersection Summary		
HCM 6th Ctrl Delay		38.0
HCM 6th LOS		D

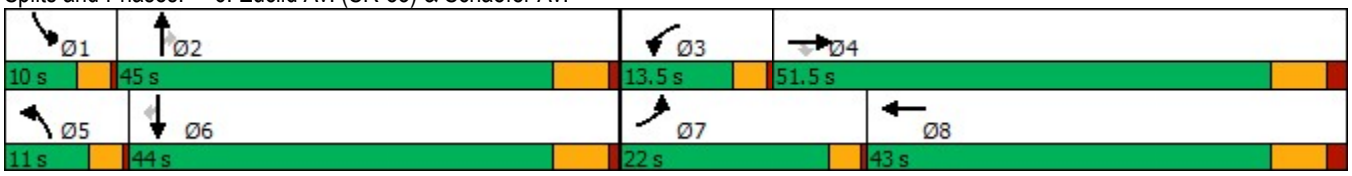
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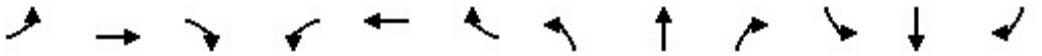
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	238	79	105	2	24	107	1194	34	52	1976	171
Future Volume (vph)	238	79	105	2	24	107	1194	34	52	1976	171
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	22.0	51.5	51.5	13.5	43.0	11.0	45.0	45.0	10.0	44.0	44.0
Total Split (%)	18.3%	42.9%	42.9%	11.3%	35.8%	9.2%	37.5%	37.5%	8.3%	36.7%	36.7%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	19.0	25.3	25.3	10.3	10.5	6.9	44.3	44.3	5.9	39.1	39.1
Actuated g/C Ratio	0.21	0.28	0.28	0.11	0.12	0.08	0.49	0.49	0.07	0.43	0.43
v/c Ratio	0.73	0.16	0.22	0.01	0.16	0.46	0.52	0.04	0.26	0.97	0.24
Control Delay	50.6	24.7	5.9	44.5	30.2	50.5	20.9	0.1	48.7	41.0	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	50.6	24.7	5.9	44.5	30.2	50.5	20.9	0.1	48.7	41.0	8.4
LOS	D	C	A	D	C	D	C	A	D	D	A
Approach Delay		34.7			31.0		22.8			38.6	
Approach LOS		C			C		C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 90.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 32.8	Intersection LOS: C
Intersection Capacity Utilization 80.0%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	238	79	105	2	24	8	107	1194	34	52	1976	171
Future Volume (veh/h)	238	79	105	2	24	8	107	1194	34	52	1976	171
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	248	82	72	2	25	5	111	1244	35	54	2058	141
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	283	414	351	9	88	18	178	2331	724	136	2266	704
Arrive On Green	0.18	0.23	0.23	0.01	0.06	0.06	0.06	0.47	0.47	0.04	0.46	0.46
Sat Flow, veh/h	1619	1800	1525	1619	1456	291	3141	4914	1525	3141	4914	1525
Grp Volume(v), veh/h	248	82	72	2	0	30	111	1244	35	54	2058	141
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1748	1570	1638	1525	1570	1638	1525
Q Serve(g_s), s	12.1	3.0	3.1	0.1	0.0	1.3	2.8	14.5	1.0	1.4	31.5	4.5
Cycle Q Clear(g_c), s	12.1	3.0	3.1	0.1	0.0	1.3	2.8	14.5	1.0	1.4	31.5	4.5
Prop In Lane	1.00		1.00	1.00		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	283	414	351	9	0	106	178	2331	724	136	2266	704
V/C Ratio(X)	0.88	0.20	0.20	0.23	0.00	0.28	0.62	0.53	0.05	0.40	0.91	0.20
Avail Cap(c_a), veh/h	369	987	837	200	0	775	290	2362	733	252	2302	715
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.6	25.2	25.2	40.2	0.0	36.4	37.4	15.0	11.5	37.8	20.3	13.0
Incr Delay (d2), s/veh	14.1	0.2	0.2	4.8	0.0	1.1	1.3	0.2	0.0	0.7	5.7	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	1.2	1.1	0.0	0.0	0.6	1.0	4.4	0.3	0.5	10.8	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.7	25.4	25.4	44.9	0.0	37.5	38.8	15.2	11.5	38.5	26.0	13.1
LnGrp LOS	D	C	C	D	A	D	D	B	B	D	C	B
Approach Vol, veh/h		402			32			1390			2253	
Approach Delay, s/veh		38.5			37.9			17.0			25.5	
Approach LOS		D			D			B			C	

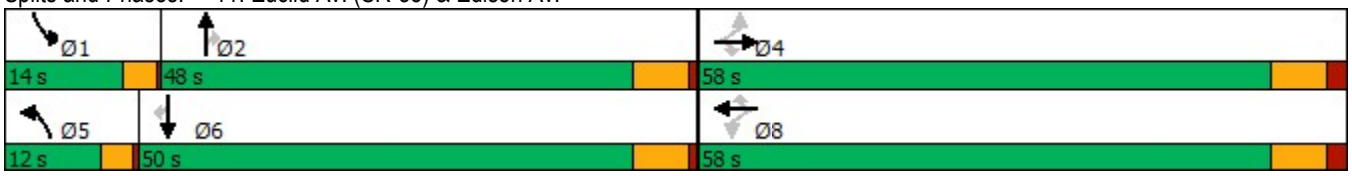
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.0	44.5	3.9	25.7	8.1	43.4	17.7	11.9
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	6.5	39.0	10.0	44.5	7.5	38.0	18.5	36.0
Max Q Clear Time (g_c+I1), s	3.4	16.5	2.1	5.1	4.8	33.5	14.1	3.3
Green Ext Time (p_c), s	0.0	8.3	0.0	0.5	0.0	3.9	0.1	0.1

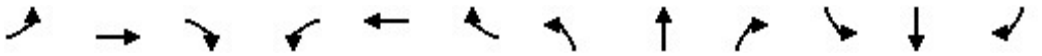
Intersection Summary	
HCM 6th Ctrl Delay	24.0
HCM 6th LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	212	417	200	104	511	141	163	1010	51	229	1523	249
Future Volume (vph)	212	417	200	104	511	141	163	1010	51	229	1523	249
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	58.0	58.0	58.0	58.0	58.0	58.0	12.0	48.0	48.0	14.0	50.0	50.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	48.3%	10.0%	40.0%	40.0%	11.7%	41.7%	41.7%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag							Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?							Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	51.0	51.0	51.0	51.0	51.0	51.0	8.3	40.9	40.9	10.5	43.1	43.1
Actuated g/C Ratio	0.43	0.43	0.43	0.43	0.43	0.43	0.07	0.34	0.34	0.09	0.36	0.36
v/c Ratio	1.09	0.56	0.27	0.40	0.68	0.20	0.77	0.62	0.10	1.66	0.88	0.39
Control Delay	126.2	29.2	5.1	29.5	33.2	4.1	77.6	34.3	4.5	359.9	42.5	9.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	126.2	29.2	5.1	29.5	33.2	4.1	77.6	34.3	4.5	359.9	42.5	9.8
LOS	F	C	A	C	C	A	E	C	A	F	D	A
Approach Delay		48.2			27.3			38.8			74.8	
Approach LOS		D			C			D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.9	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.66	
Intersection Signal Delay: 53.6	Intersection LOS: D
Intersection Capacity Utilization 98.4%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	212	417	200	104	511	141	163	1010	51	229	1523	249
Future Volume (veh/h)	212	417	200	104	511	141	163	1010	51	229	1523	249
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	219	430	170	107	527	135	168	1041	46	236	1570	222
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	200	778	659	250	778	658	218	1665	515	144	1762	546
Arrive On Green	0.43	0.43	0.43	0.43	0.43	0.43	0.07	0.34	0.34	0.09	0.36	0.36
Sat Flow, veh/h	702	1800	1524	744	1800	1522	3141	4914	1521	1619	4914	1524
Grp Volume(v), veh/h	219	430	170	107	527	135	168	1041	46	236	1570	222
Grp Sat Flow(s),veh/h/ln	702	1800	1524	744	1800	1522	1570	1638	1521	1619	1638	1524
Q Serve(g_s), s	23.3	21.0	8.4	14.8	27.7	6.5	6.2	21.0	2.4	10.5	35.5	12.9
Cycle Q Clear(g_c), s	51.0	21.0	8.4	35.8	27.7	6.5	6.2	21.0	2.4	10.5	35.5	12.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	200	778	659	250	778	658	218	1665	515	144	1762	546
V/C Ratio(X)	1.10	0.55	0.26	0.43	0.68	0.21	0.77	0.63	0.09	1.64	0.89	0.41
Avail Cap(c_a), veh/h	200	778	659	250	778	658	226	1749	541	144	1833	568
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.9	25.0	21.4	38.3	26.9	20.9	54.0	32.7	26.6	53.7	35.7	28.4
Incr Delay (d2), s/veh	92.2	0.8	0.2	1.2	2.4	0.2	13.0	0.7	0.1	316.2	5.8	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.9	8.7	2.9	2.7	11.7	2.3	2.7	7.9	0.8	16.7	14.0	4.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	143.1	25.8	21.6	39.5	29.2	21.0	67.0	33.4	26.7	369.9	41.5	28.9
LnGrp LOS	F	C	C	D	C	C	E	C	C	F	D	C
Approach Vol, veh/h		819			769			1255			2028	
Approach Delay, s/veh		56.3			29.2			37.6			78.3	
Approach LOS		E			C			D			E	

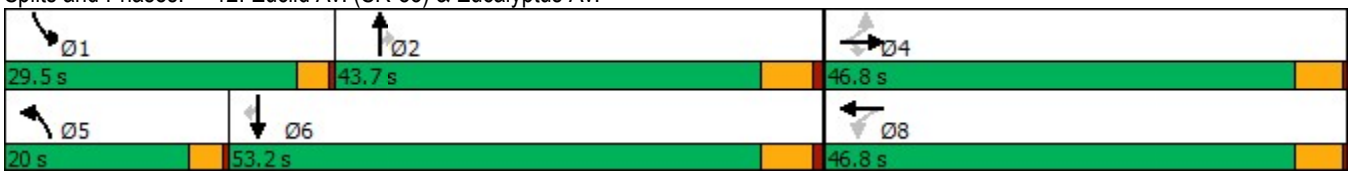
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.0	46.0		58.0	11.7	48.3		58.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	10.5	42.0		51.0	8.5	44.0		51.0				
Max Q Clear Time (g_c+I1), s	12.5	23.0		53.0	8.2	37.5		37.8				
Green Ext Time (p_c), s	0.0	6.3		0.0	0.0	4.8		3.6				

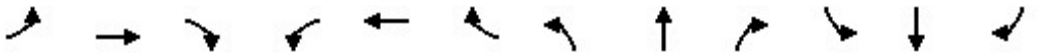
Intersection Summary		
HCM 6th Ctrl Delay		56.4
HCM 6th LOS		E

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	61	42	164	31	158	169	1104	15	262	1659	39
Future Volume (vph)	61	42	164	31	158	169	1104	15	262	1659	39
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	20.0	43.7	43.7	29.5	53.2	53.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	16.7%	36.4%	36.4%	24.6%	44.3%	44.3%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	21.2	21.2	21.2	21.2	21.2	15.0	36.7	36.7	21.1	42.8	42.8
Actuated g/C Ratio	0.23	0.23	0.23	0.23	0.23	0.16	0.39	0.39	0.23	0.46	0.46
v/c Ratio	0.49	0.11	0.36	0.12	0.69	0.71	0.62	0.02	0.78	0.79	0.06
Control Delay	45.2	29.8	6.7	30.2	39.0	56.6	26.5	0.1	52.0	26.3	5.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.2	29.8	6.7	30.2	39.0	56.6	26.5	0.1	52.0	26.3	5.3
LOS	D	C	A	C	D	E	C	A	D	C	A
Approach Delay		19.1			38.1		30.1			29.3	
Approach LOS		B			D		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 93.6	
Natural Cycle: 105	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.79	
Intersection Signal Delay: 29.6	Intersection LOS: C
Intersection Capacity Utilization 79.9%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	61	42	164	31	158	102	169	1104	15	262	1659	39
Future Volume (veh/h)	61	42	164	31	158	102	169	1104	15	262	1659	39
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	66	45	91	33	170	104	182	1187	14	282	1784	26
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	178	434	368	336	252	154	215	1962	609	319	2276	706
Arrive On Green	0.24	0.24	0.24	0.24	0.24	0.24	0.13	0.40	0.40	0.20	0.46	0.46
Sat Flow, veh/h	1005	1800	1525	1139	1045	640	1619	4914	1525	1619	4914	1524
Grp Volume(v), veh/h	66	45	91	33	0	274	182	1187	14	282	1784	26
Grp Sat Flow(s),veh/h/ln	1005	1800	1525	1139	0	1685	1619	1638	1525	1619	1638	1524
Q Serve(g_s), s	5.5	1.7	4.1	2.0	0.0	12.7	9.4	16.4	0.5	14.6	26.3	0.8
Cycle Q Clear(g_c), s	18.1	1.7	4.1	3.7	0.0	12.7	9.4	16.4	0.5	14.6	26.3	0.8
Prop In Lane	1.00		1.00	1.00		0.38	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	178	434	368	336	0	406	215	1962	609	319	2276	706
V/C Ratio(X)	0.37	0.10	0.25	0.10	0.00	0.67	0.85	0.61	0.02	0.88	0.78	0.04
Avail Cap(c_a), veh/h	427	880	745	618	0	823	311	2173	674	490	2716	842
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.8	25.4	26.3	26.8	0.0	29.6	36.4	20.5	15.7	33.6	19.4	12.6
Incr Delay (d2), s/veh	1.0	0.1	0.3	0.1	0.0	1.5	11.9	0.4	0.0	10.4	1.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	0.7	1.4	0.5	0.0	4.9	4.1	5.5	0.1	6.1	8.5	0.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	38.7	25.5	26.6	26.9	0.0	31.0	48.3	20.9	15.7	43.9	20.8	12.6
LnGrp LOS	D	C	C	C	A	C	D	C	B	D	C	B
Approach Vol, veh/h		202			307			1383			2092	
Approach Delay, s/veh		30.3			30.6			24.4			23.8	
Approach LOS		C			C			C			C	

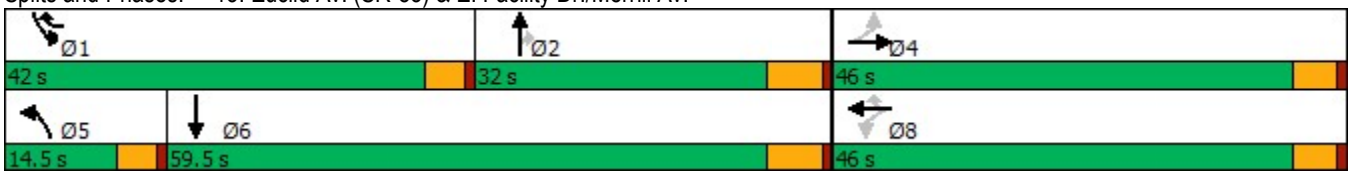
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	20.4	40.0		25.5	14.9	45.5		25.5				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	26.0	38.0		42.0	16.5	47.5		42.0				
Max Q Clear Time (g_c+I1), s	16.6	18.4		20.1	11.4	28.3		14.7				
Green Ext Time (p_c), s	0.4	7.3		0.6	0.1	11.5		1.3				

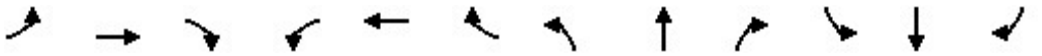
Intersection Summary												
HCM 6th Ctrl Delay			24.9									
HCM 6th LOS			C									

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	7	5	368	55	270	13	1000	572	587	1163
Future Volume (vph)	7	5	368	55	270	13	1000	572	587	1163
Turn Type	Perm	NA	Perm	NA	pm+ov	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	1	5	2		1	6
Permitted Phases	4		8		8			2		
Detector Phase	4	4	8	8	1	5	2	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	14.5	28.0	28.0	14.5	28.0
Total Split (s)	46.0	46.0	46.0	46.0	42.0	14.5	32.0	32.0	42.0	59.5
Total Split (%)	38.3%	38.3%	38.3%	38.3%	35.0%	12.1%	26.7%	26.7%	35.0%	49.6%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0	5.0	5.0	4.5	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		37.9	37.9	37.9	80.5	10.0	26.1	26.1	37.6	62.5
Actuated g/C Ratio		0.32	0.32	0.32	0.69	0.09	0.22	0.22	0.32	0.53
v/c Ratio		0.03	0.95	0.10	0.27	0.10	0.97	1.12	1.20	0.50
Control Delay		22.0	73.0	27.7	6.9	52.8	67.4	100.3	145.8	19.7
Queue Delay		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		22.0	73.0	27.7	6.9	52.8	67.4	100.3	145.8	19.7
LOS		C	E	C	A	D	E	F	F	B
Approach Delay		22.0		43.7			79.1			60.6
Approach LOS		C		D			E			E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 117.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.20	
Intersection Signal Delay: 64.7	Intersection LOS: E
Intersection Capacity Utilization 99.1%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	5	4	368	55	270	13	1000	572	587	1163	61
Future Volume (veh/h)	7	5	4	368	55	270	13	1000	572	587	1163	61
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	7	5	2	391	59	149	14	1064	311	624	1237	33
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	247	169	61	471	565	976	51	1110	344	527	2560	68
Arrive On Green	0.41	0.41	0.41	0.41	0.41	0.41	0.04	0.29	0.29	0.42	0.68	0.68
Sat Flow, veh/h	637	538	196	1280	1800	1525	1619	4914	1525	1619	4921	131
Grp Volume(v), veh/h	14	0	0	391	59	149	14	1064	311	624	823	447
Grp Sat Flow(s),veh/h/ln	1370	0	0	1280	1800	1525	1619	1638	1525	1619	1638	1776
Q Serve(g_s), s	0.0	0.0	0.0	31.2	2.3	4.0	1.0	24.5	22.6	37.5	13.9	13.9
Cycle Q Clear(g_c), s	2.3	0.0	0.0	33.5	2.3	4.0	1.0	24.5	22.6	37.5	13.9	13.9
Prop In Lane	0.50		0.14	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	477	0	0	471	565	976	51	1110	344	527	1704	924
V/C Ratio(X)	0.03	0.00	0.00	0.83	0.10	0.15	0.28	0.96	0.90	1.18	0.48	0.48
Avail Cap(c_a), veh/h	534	0	0	525	641	1040	141	1110	344	527	1704	924
HCM Platoon Ratio	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30	1.30
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.5	0.0	0.0	33.0	24.1	7.1	54.0	40.1	39.5	33.2	11.2	11.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	8.8	0.0	0.0	1.1	18.0	25.9	100.6	0.2	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	10.1	1.0	1.1	0.4	10.4	9.8	26.8	3.8	4.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.6	0.0	0.0	41.9	24.1	7.1	55.0	58.1	65.3	133.8	11.4	11.6
LnGrp LOS	C	A	A	D	C	A	E	E	E	F	B	B
Approach Vol, veh/h		14			599			1389			1894	
Approach Delay, s/veh		23.6			31.5			59.7			51.8	
Approach LOS		C			C			E			D	

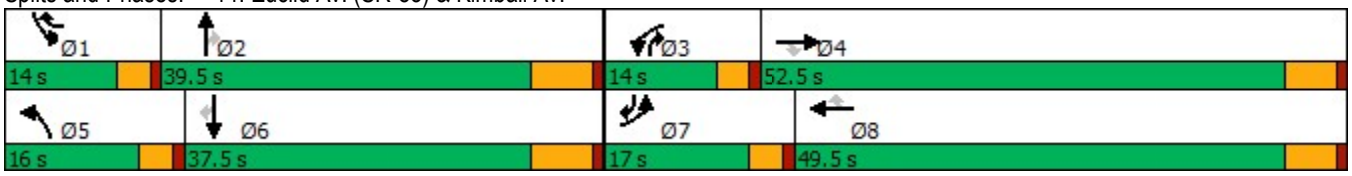
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	42.0	32.0		41.1	8.1	65.9		41.1				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	37.5	26.0		41.0	10.0	53.5		41.0				
Max Q Clear Time (g_c+I1), s	39.5	26.5		4.3	3.0	15.9		35.5				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	9.0		0.6				

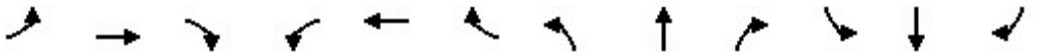
Intersection Summary			
HCM 6th Ctrl Delay		51.4	
HCM 6th LOS		D	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	162	317	61	113	1077	340	82	1092	67	198	873	422
Future Volume (vph)	162	317	61	113	1077	340	82	1092	67	198	873	422
Turn Type	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8	1	5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	1	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	9.0	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	17.0	52.5	52.5	14.0	49.5	14.0	16.0	39.5	14.0	14.0	37.5	17.0
Total Split (%)	14.2%	43.8%	43.8%	11.7%	41.3%	11.7%	13.3%	32.9%	11.7%	11.7%	31.3%	14.2%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	3.0	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	4.0	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	11.3	41.5	41.5	10.1	40.2	55.8	10.9	31.6	48.2	9.8	33.8	47.6
Actuated g/C Ratio	0.10	0.37	0.37	0.09	0.35	0.49	0.10	0.28	0.43	0.09	0.30	0.42
v/c Ratio	0.57	0.26	0.10	0.42	0.92	0.45	0.54	0.82	0.10	0.80	0.62	0.64
Control Delay	58.1	25.8	1.3	55.9	47.6	17.1	64.7	44.7	5.5	75.7	38.3	25.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.1	25.8	1.3	55.9	47.6	17.1	64.7	44.7	5.5	75.7	38.3	25.5
LOS	E	C	A	E	D	B	E	D	A	E	D	C
Approach Delay		32.7			41.4			43.9			39.6	
Approach LOS		C			D			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 113.4	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.92	
Intersection Signal Delay: 40.5	Intersection LOS: D
Intersection Capacity Utilization 85.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	162	317	61	113	1077	340	82	1092	67	198	873	422
Future Volume (veh/h)	162	317	61	113	1077	340	82	1092	67	198	873	422
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	167	327	42	116	1110	173	85	1126	48	204	900	280
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	270	1232	550	280	1225	678	137	1366	560	255	1373	560
Arrive On Green	0.09	0.36	0.36	0.09	0.36	0.36	0.08	0.28	0.28	0.09	0.28	0.28
Sat Flow, veh/h	2956	3420	1525	3141	3420	1525	1619	4914	1525	2956	4914	1506
Grp Volume(v), veh/h	167	327	42	116	1110	173	85	1126	48	204	900	280
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1570	1710	1525	1619	1638	1525	1478	1638	1506
Q Serve(g_s), s	5.9	7.4	2.0	3.8	33.6	7.7	5.5	23.4	2.2	7.4	17.6	15.7
Cycle Q Clear(g_c), s	5.9	7.4	2.0	3.8	33.6	7.7	5.5	23.4	2.2	7.4	17.6	15.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	270	1232	550	280	1225	678	137	1366	560	255	1373	560
V/C Ratio(X)	0.62	0.27	0.08	0.41	0.91	0.26	0.62	0.82	0.09	0.80	0.66	0.50
Avail Cap(c_a), veh/h	353	1467	654	289	1373	744	178	1490	598	272	1399	568
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.6	24.6	22.9	46.9	33.2	19.0	48.1	36.8	22.5	48.8	34.6	26.5
Incr Delay (d2), s/veh	0.9	0.1	0.1	0.4	7.8	0.1	1.7	3.9	0.1	13.4	1.3	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.1	2.9	0.7	1.5	14.3	2.6	2.2	9.2	0.8	3.1	6.7	5.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	48.5	24.7	23.0	47.3	41.0	19.0	49.8	40.7	22.6	62.3	35.9	27.5
LnGrp LOS	D	C	C	D	D	B	D	D	C	E	D	C
Approach Vol, veh/h		536			1399			1259			1384	
Approach Delay, s/veh		32.0			38.8			40.6			38.1	
Approach LOS		C			D			D			D	

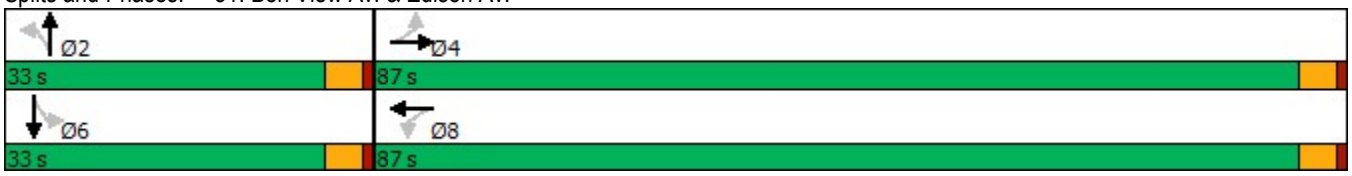
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.4	36.8	13.7	45.0	13.2	36.9	13.9	44.8
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	10.0	33.0	10.0	46.7	12.0	31.0	13.0	43.7
Max Q Clear Time (g_c+I1), s	9.4	25.4	5.8	9.4	7.5	19.6	7.9	35.6
Green Ext Time (p_c), s	0.0	4.9	0.1	2.2	0.0	6.3	0.1	3.4

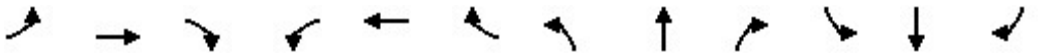
Intersection Summary	
HCM 6th Ctrl Delay	38.3
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	41	661	7	591	12	188	11	133
Future Volume (vph)	41	661	7	591	12	188	11	133
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	87.0	87.0	87.0	87.0	33.0	33.0	33.0	33.0
Total Split (%)	72.5%	72.5%	72.5%	72.5%	27.5%	27.5%	27.5%	27.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		41.1		41.1		15.6		15.6
Actuated g/C Ratio		0.62		0.62		0.23		0.23
v/c Ratio		0.80		0.66		0.58		0.51
Control Delay		16.0		11.3		32.2		29.6
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		16.0		11.3		32.2		29.6
LOS		B		B		C		C
Approach Delay		16.0		11.3		32.2		29.6
Approach LOS		B		B		C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 66.8	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.80	
Intersection Signal Delay: 17.6	Intersection LOS: B
Intersection Capacity Utilization 82.9%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	661	17	7	591	33	12	188	6	11	133	38
Future Volume (veh/h)	41	661	17	7	591	33	12	188	6	11	133	38
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	49	796	20	8	712	40	14	227	7	13	160	46
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	121	1011	25	89	1045	58	100	347	10	100	272	75
Arrive On Green	0.59	0.59	0.59	0.59	0.59	0.59	0.20	0.20	0.20	0.20	0.20	0.20
Sat Flow, veh/h	53	1713	42	5	1770	99	50	1761	53	50	1381	381
Grp Volume(v), veh/h	865	0	0	760	0	0	248	0	0	219	0	0
Grp Sat Flow(s),veh/h/ln	1808	0	0	1873	0	0	1863	0	0	1812	0	0
Q Serve(g_s), s	3.4	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	15.1	0.0	0.0	11.8	0.0	0.0	5.2	0.0	0.0	4.6	0.0	0.0
Prop In Lane	0.06		0.02	0.01		0.05	0.06		0.03	0.06		0.21
Lane Grp Cap(c), veh/h	1157	0	0	1192	0	0	457	0	0	447	0	0
V/C Ratio(X)	0.75	0.00	0.00	0.64	0.00	0.00	0.54	0.00	0.00	0.49	0.00	0.00
Avail Cap(c_a), veh/h	3507	0	0	3697	0	0	1327	0	0	1287	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	6.6	0.0	0.0	6.0	0.0	0.0	15.7	0.0	0.0	15.5	0.0	0.0
Incr Delay (d2), s/veh	1.0	0.0	0.0	0.6	0.0	0.0	1.0	0.0	0.0	0.8	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	0.0	0.0	1.8	0.0	0.0	1.8	0.0	0.0	1.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	7.6	0.0	0.0	6.5	0.0	0.0	16.7	0.0	0.0	16.3	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		865			760			248			219	
Approach Delay, s/veh		7.6			6.5			16.7			16.3	
Approach LOS		A			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		12.9		29.5		12.9		29.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		28.5		82.5		28.5		82.5				
Max Q Clear Time (g_c+I1), s		7.2		17.1		6.6		13.8				
Green Ext Time (p_c), s		1.2		7.9		1.1		5.9				

Intersection Summary												
HCM 6th Ctrl Delay			9.2									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	41	100	33	282	43	401	34	469
Future Volume (vph)	41	100	33	282	43	401	34	469
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	49.0	49.0	49.0	49.0	71.0	71.0	71.0	71.0
Total Split (%)	40.8%	40.8%	40.8%	40.8%	59.2%	59.2%	59.2%	59.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		18.3		18.3		25.1		25.1
Actuated g/C Ratio		0.34		0.34		0.47		0.47
v/c Ratio		0.32		0.62		0.58		0.68
Control Delay		15.7		20.9		13.9		15.9
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		15.7		20.9		13.9		15.9
LOS		B		C		B		B
Approach Delay		15.7		20.9		13.9		15.9
Approach LOS		B		C		B		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 53.2	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.68	
Intersection Signal Delay: 16.5	Intersection LOS: B
Intersection Capacity Utilization 65.2%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 32: Grove Av. & Schaefer Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	100	34	33	282	58	43	401	10	34	469	51
Future Volume (veh/h)	41	100	34	33	282	58	43	401	10	34	469	51
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	43	104	35	34	294	60	45	418	10	35	489	53
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	199	363	103	140	448	87	153	724	16	133	685	72
Arrive On Green	0.31	0.31	0.31	0.31	0.31	0.31	0.43	0.43	0.43	0.43	0.43	0.43
Sat Flow, veh/h	224	1171	332	83	1446	280	89	1691	38	52	1601	167
Grp Volume(v), veh/h	182	0	0	388	0	0	473	0	0	577	0	0
Grp Sat Flow(s),veh/h/ln	1727	0	0	1809	0	0	1818	0	0	1820	0	0
Q Serve(g_s), s	0.0	0.0	0.0	1.4	0.0	0.0	0.0	0.0	0.0	1.3	0.0	0.0
Cycle Q Clear(g_c), s	2.6	0.0	0.0	6.4	0.0	0.0	6.5	0.0	0.0	8.9	0.0	0.0
Prop In Lane	0.24		0.19	0.09		0.15	0.10		0.02	0.06		0.09
Lane Grp Cap(c), veh/h	665	0	0	675	0	0	893	0	0	891	0	0
V/C Ratio(X)	0.27	0.00	0.00	0.58	0.00	0.00	0.53	0.00	0.00	0.65	0.00	0.00
Avail Cap(c_a), veh/h	2187	0	0	2420	0	0	3461	0	0	3555	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	9.1	0.0	0.0	10.4	0.0	0.0	7.5	0.0	0.0	8.1	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.8	0.0	0.0	0.5	0.0	0.0	0.8	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	0.0	1.6	0.0	0.0	1.2	0.0	0.0	1.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	9.3	0.0	0.0	11.1	0.0	0.0	8.0	0.0	0.0	8.9	0.0	0.0
LnGrp LOS	A	A	A	B	A	A	A	A	A	A	A	A
Approach Vol, veh/h		182			388			473			577	
Approach Delay, s/veh		9.3			11.1			8.0			8.9	
Approach LOS		A			B			A			A	

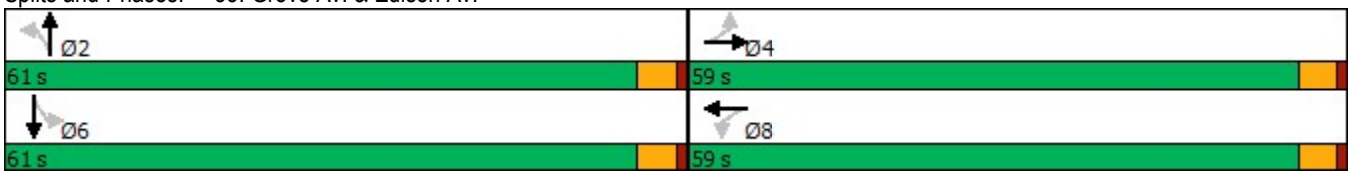
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		19.2		15.2		19.2		15.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		66.5		44.5		66.5		44.5				
Max Q Clear Time (g_c+I1), s		8.5		4.6		10.9		8.4				
Green Ext Time (p_c), s		3.0		1.1		3.8		2.3				

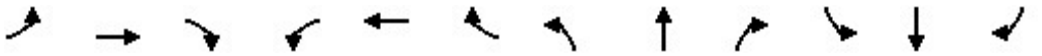
Intersection Summary												
HCM 6th Ctrl Delay			9.2									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	60	246	79	439	144	309	44	471
Future Volume (vph)	60	246	79	439	144	309	44	471
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	59.0	59.0	59.0	59.0	61.0	61.0	61.0	61.0
Total Split (%)	49.2%	49.2%	49.2%	49.2%	50.8%	50.8%	50.8%	50.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	39.1	39.1	39.1	39.1	25.2	25.2	25.2	25.2
Actuated g/C Ratio	0.52	0.52	0.52	0.52	0.34	0.34	0.34	0.34
v/c Ratio	0.21	0.77	0.41	0.58	0.73	0.30	0.16	0.48
Control Delay	13.8	20.5	21.0	16.2	46.5	19.8	21.4	21.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	13.8	20.5	21.0	16.2	46.5	19.8	21.4	21.5
LOS	B	C	C	B	D	B	C	C
Approach Delay		20.0		16.8		27.9		21.5
Approach LOS		B		B		C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 74.7	
Natural Cycle: 50	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.77	
Intersection Signal Delay: 21.2	Intersection LOS: C
Intersection Capacity Utilization 83.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	246	403	79	439	65	144	309	20	44	471	42
Future Volume (veh/h)	60	246	403	79	439	65	144	309	20	44	471	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	64	262	429	84	467	69	153	329	21	47	501	45
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	341	325	532	208	811	120	277	1185	75	359	1152	103
Arrive On Green	0.53	0.53	0.53	0.53	0.53	0.53	0.36	0.36	0.36	0.36	0.36	0.36
Sat Flow, veh/h	790	614	1005	684	1533	226	782	3265	207	937	3175	284
Grp Volume(v), veh/h	64	0	691	84	0	536	153	172	178	47	269	277
Grp Sat Flow(s),veh/h/ln	790	0	1619	684	0	1759	782	1710	1763	937	1710	1749
Q Serve(g_s), s	5.0	0.0	29.2	9.6	0.0	17.2	15.3	5.9	6.0	3.1	9.9	10.0
Cycle Q Clear(g_c), s	22.1	0.0	29.2	38.7	0.0	17.2	25.3	5.9	6.0	9.1	9.9	10.0
Prop In Lane	1.00		0.62	1.00		0.13	1.00		0.12	1.00		0.16
Lane Grp Cap(c), veh/h	341	0	856	208	0	930	277	620	640	359	620	635
V/C Ratio(X)	0.19	0.00	0.81	0.40	0.00	0.58	0.55	0.28	0.28	0.13	0.43	0.44
Avail Cap(c_a), veh/h	441	0	1061	295	0	1153	524	1162	1198	656	1162	1188
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	20.8	0.0	16.1	32.0	0.0	13.3	29.6	18.8	18.8	22.0	20.0	20.1
Incr Delay (d2), s/veh	0.3	0.0	3.8	1.3	0.0	0.6	1.7	0.2	0.2	0.2	0.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	0.0	9.7	1.5	0.0	5.8	2.7	2.1	2.2	0.6	3.6	3.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	21.0	0.0	19.9	33.3	0.0	13.8	31.3	19.0	19.0	22.2	20.5	20.5
LnGrp LOS	C	A	B	C	A	B	C	B	B	C	C	C
Approach Vol, veh/h		755			620			503			593	
Approach Delay, s/veh		20.0			16.5			22.8			20.7	
Approach LOS		C			B			C			C	

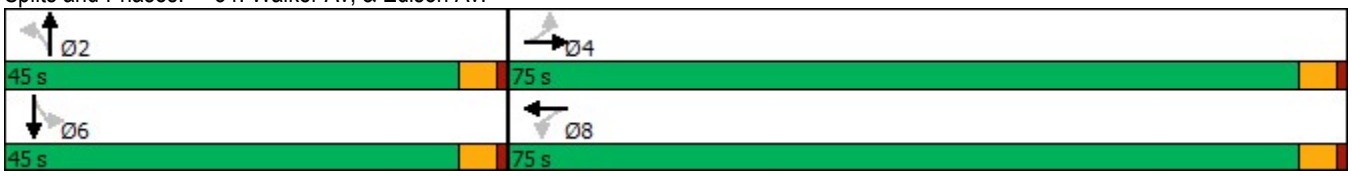
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		34.7		48.5		34.7		48.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		56.5		54.5		56.5		54.5				
Max Q Clear Time (g_c+I1), s		27.3		31.2		12.0		40.7				
Green Ext Time (p_c), s		2.9		5.3		3.3		3.2				

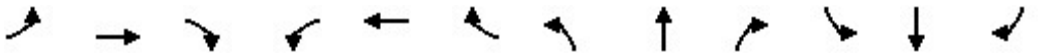
Intersection Summary												
HCM 6th Ctrl Delay			19.8									
HCM 6th LOS			B									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	33	458	259	549	33	158	186	249
Future Volume (vph)	33	458	259	549	33	158	186	249
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	75.0	75.0	75.0	75.0	45.0	45.0	45.0	45.0
Total Split (%)	62.5%	62.5%	62.5%	62.5%	37.5%	37.5%	37.5%	37.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	32.3	32.3	32.3	32.3	21.3	21.3	21.3	21.3
Actuated g/C Ratio	0.50	0.50	0.50	0.50	0.33	0.33	0.33	0.33
v/c Ratio	0.11	0.31	0.67	0.41	0.12	0.43	0.59	0.49
Control Delay	10.8	9.7	22.7	10.2	20.4	19.8	29.8	22.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	10.8	9.7	22.7	10.2	20.4	19.8	29.8	22.1
LOS	B	A	C	B	C	B	C	C
Approach Delay		9.7		13.6		19.9		25.1
Approach LOS		A		B		B		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 64.4	
Natural Cycle: 50	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.67	
Intersection Signal Delay: 15.8	Intersection LOS: B
Intersection Capacity Utilization 68.9%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 34: Walker Av, & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	458	77	259	549	143	33	158	96	186	249	43
Future Volume (veh/h)	33	458	77	259	549	143	33	158	96	186	249	43
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	34	477	80	270	572	149	34	165	100	194	259	45
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	401	1561	260	478	1430	371	357	383	232	382	546	95
Arrive On Green	0.50	0.50	0.50	0.50	0.50	0.50	0.35	0.35	0.35	0.35	0.35	0.35
Sat Flow, veh/h	743	3096	516	866	2836	737	1092	1108	671	1132	1577	274
Grp Volume(v), veh/h	34	277	280	270	363	358	34	0	265	194	0	304
Grp Sat Flow(s),veh/h/ln	743	1805	1807	866	1805	1767	1092	0	1779	1132	0	1851
Q Serve(g_s), s	1.8	5.4	5.5	16.0	7.5	7.6	1.5	0.0	6.9	9.5	0.0	7.7
Cycle Q Clear(g_c), s	9.3	5.4	5.5	21.4	7.5	7.6	9.2	0.0	6.9	16.4	0.0	7.7
Prop In Lane	1.00		0.29	1.00		0.42	1.00		0.38	1.00		0.15
Lane Grp Cap(c), veh/h	401	910	911	478	910	891	357	0	616	382	0	640
V/C Ratio(X)	0.08	0.30	0.31	0.57	0.40	0.40	0.10	0.00	0.43	0.51	0.00	0.47
Avail Cap(c_a), veh/h	899	2119	2122	1058	2119	2075	716	0	1200	754	0	1248
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.2	8.7	8.7	15.0	9.2	9.3	19.0	0.0	15.1	21.4	0.0	15.4
Incr Delay (d2), s/veh	0.1	0.2	0.2	1.1	0.3	0.3	0.1	0.0	0.5	1.0	0.0	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	1.6	1.6	2.6	2.2	2.2	0.3	0.0	2.4	2.3	0.0	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	12.2	8.9	8.9	16.1	9.5	9.5	19.1	0.0	15.6	22.4	0.0	15.9
LnGrp LOS	B	A	A	B	A	A	B	A	B	C	A	B
Approach Vol, veh/h		591			991			299			498	
Approach Delay, s/veh		9.1			11.3			16.0			18.5	
Approach LOS		A			B			B			B	

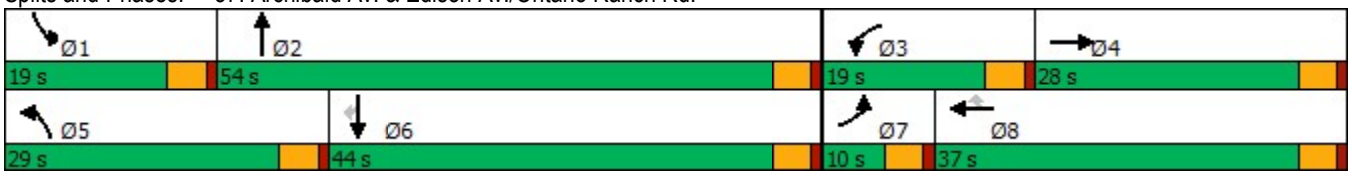
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		25.3		34.8		25.3		34.8				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		40.5		70.5		40.5		70.5				
Max Q Clear Time (g_c+I1), s		11.2		11.3		18.4		23.4				
Green Ext Time (p_c), s		1.6		3.6		2.4		6.8				

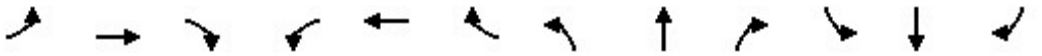
Intersection Summary												
HCM 6th Ctrl Delay			12.8									
HCM 6th LOS			B									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	89	270	73	549	794	117	184	1260	397	99	870	256
Future Volume (vph)	89	270	73	549	794	117	184	1260	397	99	870	256
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	44.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	36.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	5.6	21.8	101.4	14.7	30.9	30.9	12.1	35.0	101.4	11.6	34.6	34.6
Actuated g/C Ratio	0.06	0.21	1.00	0.14	0.30	0.30	0.12	0.35	1.00	0.11	0.34	0.34
v/c Ratio	0.59	0.38	0.05	1.37	0.84	0.23	0.54	0.74	0.29	0.59	0.78	0.45
Control Delay	65.1	37.2	0.1	214.6	42.6	5.9	49.4	32.2	0.5	58.4	35.3	12.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	65.1	37.2	0.1	214.6	42.6	5.9	49.4	32.2	0.5	58.4	35.3	12.2
LOS	E	D	A	F	D	A	D	C	A	E	D	B
Approach Delay		36.7			104.3			27.1			32.3	
Approach LOS		D			F			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 101.4	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.37	
Intersection Signal Delay: 51.9	Intersection LOS: D
Intersection Capacity Utilization 74.2%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	89	270	73	549	794	117	184	1260	397	99	870	256
Future Volume (veh/h)	89	270	73	549	794	117	184	1260	397	99	870	256
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	98	297	0	603	873	106	202	1385	0	109	956	270
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	156	693		497	1041	458	284	1933		136	1265	529
Arrive On Green	0.05	0.19	0.00	0.16	0.30	0.30	0.09	0.36	0.00	0.08	0.35	0.35
Sat Flow, veh/h	3048	3600	1525	3048	3420	1506	3141	5400	1525	1619	3600	1505
Grp Volume(v), veh/h	98	297	0	603	873	106	202	1385	0	109	956	270
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1710	1506	1570	1800	1525	1619	1800	1505
Q Serve(g_s), s	2.8	6.5	0.0	14.5	21.2	4.7	5.6	19.7	0.0	5.9	20.8	12.6
Cycle Q Clear(g_c), s	2.8	6.5	0.0	14.5	21.2	4.7	5.6	19.7	0.0	5.9	20.8	12.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	156	693		497	1041	458	284	1933		136	1265	529
V/C Ratio(X)	0.63	0.43		1.21	0.84	0.23	0.71	0.72		0.80	0.76	0.51
Avail Cap(c_a), veh/h	189	952		497	1251	551	866	3007		264	1600	669
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.3	31.6	0.0	37.2	28.9	23.1	39.3	24.6	0.0	40.0	25.5	22.8
Incr Delay (d2), s/veh	4.7	0.4	0.0	113.2	4.5	0.3	3.3	0.5	0.0	10.5	1.6	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	2.7	0.0	12.8	8.5	1.6	2.1	7.4	0.0	2.6	8.1	4.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.0	32.0	0.0	150.4	33.3	23.4	42.6	25.1	0.0	50.5	27.1	23.5
LnGrp LOS	D	C		F	C	C	D	C		D	C	C
Approach Vol, veh/h		395	A		1582			1587	A		1335	
Approach Delay, s/veh		35.5			77.3			27.4			28.3	
Approach LOS		D			E			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	11.9	36.3	19.0	21.6	12.5	35.7	9.1	31.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	7.9	21.7	16.5	8.5	7.6	22.8	4.8	23.2
Green Ext Time (p_c), s	0.1	10.1	0.0	1.4	0.5	6.3	0.0	3.9

Intersection Summary	
HCM 6th Ctrl Delay	44.4
HCM 6th LOS	D

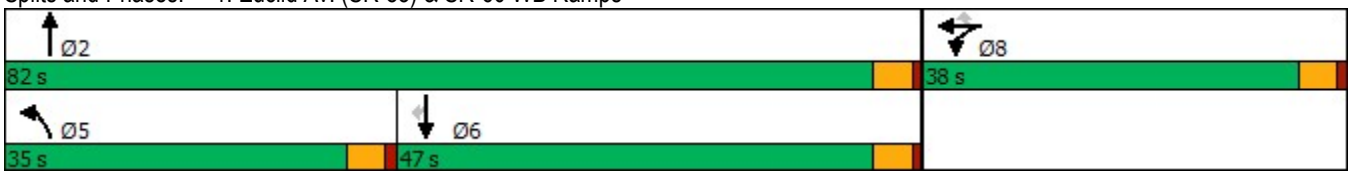
Notes

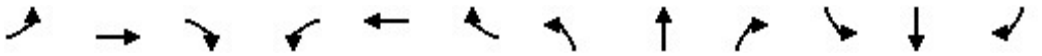
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	768	7	383	909	993	941	484
Future Volume (vph)	768	7	383	909	993	941	484
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	38.0	38.0	38.0	35.0	82.0	47.0	47.0
Total Split (%)	31.7%	31.7%	31.7%	29.2%	68.3%	39.2%	39.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	Min	Min	Min
Act Effct Green (s)	31.9	31.9	31.9	30.7	73.6	38.4	38.4
Actuated g/C Ratio	0.28	0.28	0.28	0.27	0.64	0.34	0.34
v/c Ratio	0.87	0.91	0.67	0.99	0.44	0.79	0.57
Control Delay	60.0	65.1	29.3	70.1	11.0	40.1	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Total Delay	60.0	65.1	29.3	70.1	11.6	40.1	5.2
LOS	E	E	C	E	B	D	A
Approach Delay		52.7			39.6	28.2	
Approach LOS		D			D	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 114.6	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.99	
Intersection Signal Delay: 39.4	Intersection LOS: D
Intersection Capacity Utilization 92.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	768	7	383	909	993	0	0	941	484
Future Volume (veh/h)	0	0	0	768	7	383	909	993	0	0	941	484
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				862	0	164	928	1013	0	0	960	304
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				975	0	434	986	2333	0	0	1168	521
Arrive On Green				0.27	0.00	0.27	0.28	0.65	0.00	0.00	0.32	0.32
Sat Flow, veh/h				3619	0	1610	3510	3705	0	0	3705	1610
Grp Volume(v), veh/h				862	0	164	928	1013	0	0	960	304
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1755	1805	0	0	1805	1610
Q Serve(g_s), s				24.4	0.0	8.9	27.7	14.8	0.0	0.0	26.2	16.8
Cycle Q Clear(g_c), s				24.4	0.0	8.9	27.7	14.8	0.0	0.0	26.2	16.8
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				975	0	434	986	2333	0	0	1168	521
V/C Ratio(X)				0.88	0.00	0.38	0.94	0.43	0.00	0.00	0.82	0.58
Avail Cap(c_a), veh/h				1133	0	504	1001	2614	0	0	1434	639
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				37.5	0.0	31.8	37.6	9.3	0.0	0.0	33.4	30.2
Incr Delay (d2), s/veh				7.6	0.0	0.5	16.2	0.1	0.0	0.0	3.3	1.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				11.3	0.0	3.4	13.6	5.1	0.0	0.0	11.5	6.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				45.1	0.0	32.3	53.8	9.4	0.0	0.0	36.6	31.2
LnGrp LOS				D	A	C	D	A	A	A	D	C
Approach Vol, veh/h					1026			1941			1264	
Approach Delay, s/veh					43.1			30.6			35.3	
Approach LOS					D			C			D	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	73.7		34.5	39.1		33.3						
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5						
Max Green Setting (Gmax), s	77.5		30.5	42.5		33.5						
Max Q Clear Time (g_c+I1), s	16.8		29.7	28.2		26.4						
Green Ext Time (p_c), s	8.7		0.4	6.4		2.4						

Intersection Summary		
HCM 6th Ctrl Delay	35.1	
HCM 6th LOS	D	

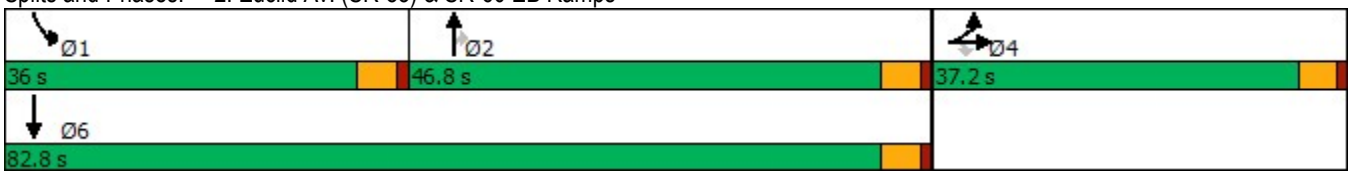
Notes

User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Configurations							
Traffic Volume (vph)	305	6	537	1596	680	372	1337
Future Volume (vph)	305	6	537	1596	680	372	1337
Turn Type	Split	NA	Perm	NA	Perm	Prot	NA
Protected Phases	4	4		2		1	6
Permitted Phases			4		2		
Detector Phase	4	4	4	2	2	1	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lag	Lag	Lead	
Lead-Lag Optimize?				Yes	Yes	Yes	
Recall Mode	None	None	None	Min	Min	None	Min
Act Effct Green (s)	22.4	22.4	22.4	42.8	42.8	15.9	63.3
Actuated g/C Ratio	0.24	0.24	0.24	0.45	0.45	0.17	0.67
v/c Ratio	0.71	0.75	0.72	1.02	0.75	0.66	0.58
Control Delay	43.5	38.8	36.7	55.7	16.1	43.5	10.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total Delay	43.5	38.8	36.7	55.7	16.1	43.5	10.8
LOS	D	D	D	E	B	D	B
Approach Delay		39.6		43.8			17.9
Approach LOS		D		D			B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 94.8	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.02	
Intersection Signal Delay: 33.9	Intersection LOS: C
Intersection Capacity Utilization 92.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	305	6	537	0	0	0	0	1596	680	372	1337	0
Future Volume (veh/h)	305	6	537	0	0	0	0	1596	680	372	1337	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	214	0	600				0	1662	581	388	1393	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	416	0	740				0	1715	754	503	2415	0
Arrive On Green	0.23	0.00	0.23				0.00	0.48	0.48	0.14	0.67	0.00
Sat Flow, veh/h	1810	0	3220				0	3705	1586	3510	3705	0
Grp Volume(v), veh/h	214	0	600				0	1662	581	388	1393	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1586	1755	1805	0
Q Serve(g_s), s	9.2	0.0	15.7				0.0	39.8	27.0	9.5	18.5	0.0
Cycle Q Clear(g_c), s	9.2	0.0	15.7				0.0	39.8	27.0	9.5	18.5	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	416	0	740				0	1715	754	503	2415	0
V/C Ratio(X)	0.51	0.00	0.81				0.00	0.97	0.77	0.77	0.58	0.00
Avail Cap(c_a), veh/h	665	0	1184				0	1716	754	1243	3177	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	29.9	0.0	32.4				0.0	22.7	19.3	36.7	7.9	0.0
Incr Delay (d2), s/veh	1.0	0.0	2.3				0.0	15.0	4.9	2.6	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.0	5.9				0.0	18.4	9.9	4.1	5.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.9	0.0	34.7				0.0	37.7	24.3	39.3	8.2	0.0
LnGrp LOS	C	A	C				A	D	C	D	A	A
Approach Vol, veh/h		814						2243			1781	
Approach Delay, s/veh		33.7						34.2			14.9	
Approach LOS		C						C			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	17.2	46.8		25.0		64.0
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	11.5	41.8		17.7		20.5
Green Ext Time (p_c), s	1.3	0.4		2.8		14.6

Intersection Summary	
HCM 6th Ctrl Delay	27.0
HCM 6th LOS	C

Notes

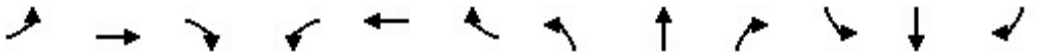
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	144	515	86	168	408	75	136	1810	114	1295	169
Future Volume (vph)	144	515	86	168	408	75	136	1810	114	1295	169
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	1	6	7
Permitted Phases			4			8					6
Detector Phase	7	4	4	3	8	8	5	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	25.8	9.6	31.8	31.8	9.6	30.4	9.6	34.5	9.6
Total Split (s)	16.7	29.9	29.9	18.6	31.8	31.8	18.9	56.9	14.6	52.6	16.7
Total Split (%)	13.9%	24.9%	24.9%	15.5%	26.5%	26.5%	15.8%	47.4%	12.2%	43.8%	13.9%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min	None
Act Effct Green (s)	11.9	21.8	21.8	13.7	23.6	23.6	12.7	51.5	9.8	47.5	65.9
Actuated g/C Ratio	0.10	0.19	0.19	0.12	0.20	0.20	0.11	0.44	0.08	0.40	0.56
v/c Ratio	0.89	0.82	0.23	0.90	0.60	0.19	0.79	0.94	0.86	0.66	0.19
Control Delay	99.5	57.2	4.8	96.6	46.4	3.3	80.8	41.8	101.0	30.9	4.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	99.5	57.2	4.8	96.6	46.4	3.3	80.8	41.8	101.0	30.9	4.5
LOS	F	E	A	F	D	A	F	D	F	C	A
Approach Delay		59.3			54.4			44.3		33.2	
Approach LOS		E			D			D		C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 117.3	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.94	
Intersection Signal Delay: 44.3	Intersection LOS: D
Intersection Capacity Utilization 90.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	144	515	86	168	408	75	136	1810	185	114	1295	169
Future Volume (veh/h)	144	515	86	168	408	75	136	1810	185	114	1295	169
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	145	520	47	170	412	37	137	1828	106	115	1308	72
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	169	608	271	194	661	290	161	2043	118	138	2042	793
Arrive On Green	0.10	0.18	0.18	0.12	0.19	0.19	0.10	0.43	0.43	0.09	0.42	0.42
Sat Flow, veh/h	1619	3420	1525	1619	3420	1497	1619	4752	275	1619	4914	1525
Grp Volume(v), veh/h	145	520	47	170	412	37	137	1259	675	115	1308	72
Grp Sat Flow(s),veh/h/ln	1619	1710	1525	1619	1710	1497	1619	1638	1751	1619	1638	1525
Q Serve(g_s), s	10.1	17.0	3.0	11.9	12.7	2.4	9.6	40.9	41.1	8.0	24.4	2.7
Cycle Q Clear(g_c), s	10.1	17.0	3.0	11.9	12.7	2.4	9.6	40.9	41.1	8.0	24.4	2.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.16	1.00		1.00
Lane Grp Cap(c), veh/h	169	608	271	194	661	290	161	1409	753	138	2042	793
V/C Ratio(X)	0.86	0.86	0.17	0.87	0.62	0.13	0.85	0.89	0.90	0.83	0.64	0.09
Avail Cap(c_a), veh/h	170	717	320	197	773	339	201	1467	784	141	2042	793
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.7	45.8	40.1	49.7	42.5	38.4	50.9	30.3	30.4	51.8	26.8	13.9
Incr Delay (d2), s/veh	31.2	8.8	0.3	31.0	1.2	0.2	20.0	7.3	12.7	30.9	0.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	7.7	1.1	6.3	5.3	0.9	4.6	15.9	18.3	4.4	9.2	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	81.9	54.6	40.4	80.8	43.7	38.6	70.9	37.6	43.1	82.7	27.5	14.0
LnGrp LOS	F	D	D	F	D	D	E	D	D	F	C	B
Approach Vol, veh/h		712			619			2071			1495	
Approach Delay, s/veh		59.2			53.6			41.6			31.1	
Approach LOS		E			D			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.4	56.0	18.4	26.2	16.1	54.3	16.6	28.0
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	10.0	* 52	14.0	24.1	14.3	46.1	12.1	26.0
Max Q Clear Time (g_c+I1), s	10.0	43.1	13.9	19.0	11.6	26.4	12.1	14.7
Green Ext Time (p_c), s	0.0	6.3	0.0	1.5	0.0	9.2	0.0	1.9

Intersection Summary	
HCM 6th Ctrl Delay	42.5
HCM 6th LOS	D

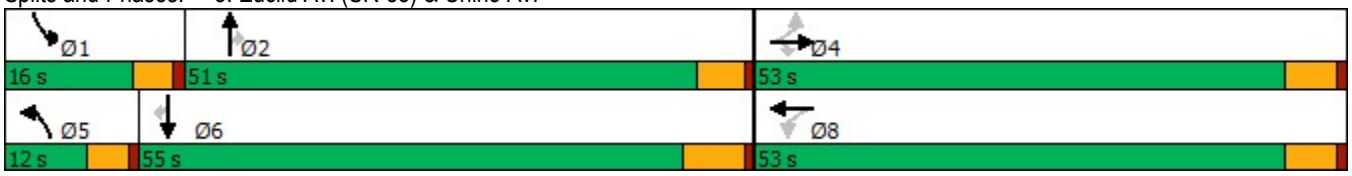
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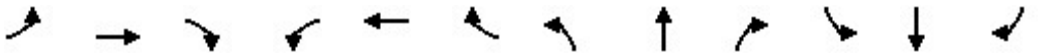
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	82	455	56	94	131	61	2013	221	96	1375	71
Future Volume (vph)	82	455	56	94	131	61	2013	221	96	1375	71
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	53.0	53.0	53.0	53.0	53.0	12.0	51.0	51.0	16.0	55.0	55.0
Total Split (%)	44.2%	44.2%	44.2%	44.2%	44.2%	10.0%	42.5%	42.5%	13.3%	45.8%	45.8%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8	5.8	5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	32.7	32.7	32.7	32.7	32.7	6.9	46.8	46.8	9.7	50.7	50.7
Actuated g/C Ratio	0.31	0.31	0.31	0.31	0.31	0.07	0.45	0.45	0.09	0.48	0.48
v/c Ratio	0.29	0.84	0.11	0.96	0.38	0.59	0.95	0.32	0.66	0.60	0.09
Control Delay	29.5	47.5	4.0	118.5	25.9	73.9	40.1	16.5	69.6	23.4	5.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.5	47.5	4.0	118.5	25.9	73.9	40.1	16.5	69.6	23.4	5.3
LOS	C	D	A	F	C	E	D	B	E	C	A
Approach Delay		40.8			55.5		38.7			25.4	
Approach LOS		D			E		D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 105	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.96	
Intersection Signal Delay: 35.7	Intersection LOS: D
Intersection Capacity Utilization 98.4%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	82	455	56	94	131	70	61	2013	221	96	1375	71
Future Volume (veh/h)	82	455	56	94	131	70	61	2013	221	96	1375	71
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	85	469	38	97	135	66	63	2075	166	99	1418	41
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	366	658	558	180	418	204	78	2008	623	121	2137	663
Arrive On Green	0.37	0.37	0.37	0.37	0.37	0.37	0.05	0.41	0.41	0.07	0.43	0.43
Sat Flow, veh/h	1074	1800	1525	811	1141	558	1619	4914	1525	1619	4914	1525
Grp Volume(v), veh/h	85	469	38	97	0	201	63	2075	166	99	1418	41
Grp Sat Flow(s),veh/h/ln	1074	1800	1525	811	0	1700	1619	1638	1525	1619	1638	1525
Q Serve(g_s), s	6.9	25.0	1.8	13.1	0.0	9.5	4.3	45.8	8.1	6.8	25.7	1.7
Cycle Q Clear(g_c), s	16.5	25.0	1.8	38.1	0.0	9.5	4.3	45.8	8.1	6.8	25.7	1.7
Prop In Lane	1.00		1.00	1.00		0.33	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	366	658	558	180	0	622	78	2008	623	121	2137	663
V/C Ratio(X)	0.23	0.71	0.07	0.54	0.00	0.32	0.80	1.03	0.27	0.82	0.66	0.06
Avail Cap(c_a), veh/h	425	758	642	225	0	716	107	2008	623	165	2137	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.5	30.5	23.1	46.8	0.0	25.6	52.8	33.1	22.0	51.1	25.2	18.4
Incr Delay (d2), s/veh	0.3	2.7	0.1	2.5	0.0	0.3	18.8	29.2	1.0	15.1	1.6	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	10.7	0.6	2.7	0.0	3.7	2.1	21.7	2.9	3.1	9.3	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.8	33.1	23.2	49.3	0.0	25.9	71.6	62.4	23.0	66.2	26.8	18.6
LnGrp LOS	C	C	C	D	A	C	E	F	C	E	C	B
Approach Vol, veh/h		592			298			2304			1558	
Approach Delay, s/veh		32.3			33.5			59.8			29.1	
Approach LOS		C			C			E			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.0	52.3		46.8	10.0	55.2		46.8				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 46		47.2	7.4	48.5		47.2				
Max Q Clear Time (g_c+I1), s	8.8	47.8		27.0	6.3	27.7		40.1				
Green Ext Time (p_c), s	0.0	0.0		3.0	0.0	9.4		0.9				

Intersection Summary		
HCM 6th Ctrl Delay		44.6
HCM 6th LOS		D

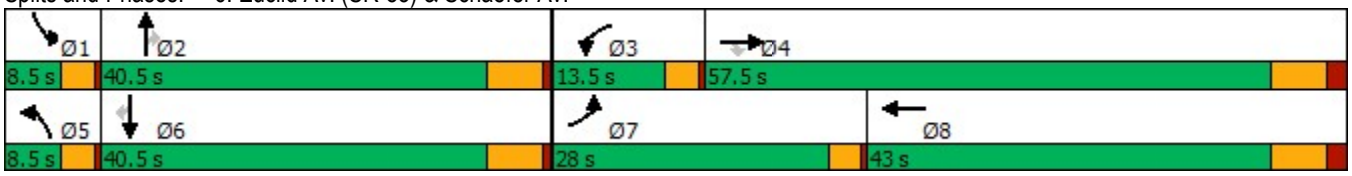
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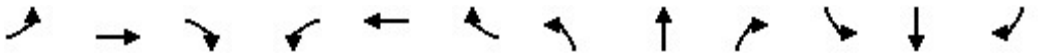
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	367	304	157	44	107	121	1814	50	57	1299	151
Future Volume (vph)	367	304	157	44	107	121	1814	50	57	1299	151
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	28.0	57.5	57.5	13.5	43.0	8.5	40.5	40.5	8.5	40.5	40.5
Total Split (%)	23.3%	47.9%	47.9%	11.3%	35.8%	7.1%	33.8%	33.8%	7.1%	33.8%	33.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	24.8	36.2	36.2	10.1	15.6	5.1	35.3	35.3	5.1	33.3	33.3
Actuated g/C Ratio	0.25	0.37	0.37	0.10	0.16	0.05	0.36	0.36	0.05	0.34	0.34
v/c Ratio	0.94	0.48	0.24	0.27	0.56	0.78	1.07	0.08	0.37	0.81	0.26
Control Delay	70.2	28.4	4.6	49.9	40.8	80.3	74.6	0.3	56.1	35.7	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.2	28.4	4.6	49.9	40.8	80.3	74.6	0.3	56.1	35.7	8.4
LOS	E	C	A	D	D	F	E	A	E	D	A
Approach Delay		42.4			42.8		73.0			33.7	
Approach LOS		D			D		E			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 99	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.07	
Intersection Signal Delay: 53.0	Intersection LOS: D
Intersection Capacity Utilization 91.1%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	367	304	157	44	107	48	121	1814	50	57	1299	151
Future Volume (veh/h)	367	304	157	44	107	48	121	1814	50	57	1299	151
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	378	313	97	45	110	43	125	1870	45	59	1339	111
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	406	531	450	120	145	57	170	1832	569	132	1774	543
Arrive On Green	0.25	0.29	0.29	0.07	0.12	0.12	0.05	0.37	0.37	0.04	0.36	0.36
Sat Flow, veh/h	1619	1800	1525	1619	1231	481	3141	4914	1525	3141	4914	1505
Grp Volume(v), veh/h	378	313	97	45	0	153	125	1870	45	59	1339	111
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1712	1570	1638	1525	1570	1638	1505
Q Serve(g_s), s	21.1	13.7	4.4	2.4	0.0	8.0	3.6	34.5	1.8	1.7	22.2	4.7
Cycle Q Clear(g_c), s	21.1	13.7	4.4	2.4	0.0	8.0	3.6	34.5	1.8	1.7	22.2	4.7
Prop In Lane	1.00		1.00	1.00		0.28	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	406	531	450	120	0	202	170	1832	569	132	1774	543
V/C Ratio(X)	0.93	0.59	0.22	0.38	0.00	0.76	0.74	1.02	0.08	0.45	0.75	0.20
Avail Cap(c_a), veh/h	429	982	832	175	0	666	170	1832	569	170	1832	561
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	33.9	27.8	24.6	40.8	0.0	39.5	43.1	29.0	18.8	43.3	26.0	20.4
Incr Delay (d2), s/veh	25.6	0.8	0.2	0.7	0.0	4.3	13.7	26.5	0.1	0.9	1.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.6	5.6	1.5	1.0	0.0	3.4	1.6	16.3	0.6	0.6	7.9	1.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	59.5	28.6	24.7	41.5	0.0	43.8	56.8	55.5	18.8	44.1	27.8	20.6
LnGrp LOS	E	C	C	D	A	D	E	F	B	D	C	C
Approach Vol, veh/h		788			198			2040			1509	
Approach Delay, s/veh		42.9			43.3			54.8			27.9	
Approach LOS		D			D			D			C	

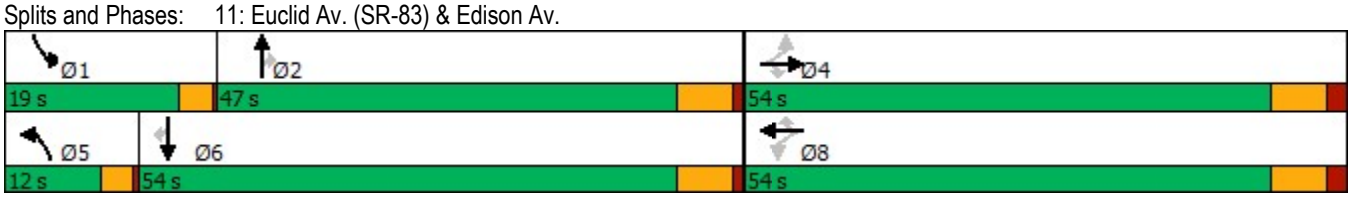
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.4	40.5	10.4	34.3	8.5	39.4	26.7	17.9
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	34.5	10.0	50.5	5.0	34.5	24.5	36.0
Max Q Clear Time (g_c+I1), s	3.7	36.5	4.4	15.7	5.6	24.2	23.1	10.0
Green Ext Time (p_c), s	0.0	0.0	0.0	1.6	0.0	5.9	0.1	0.6

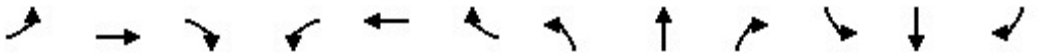
Intersection Summary	
HCM 6th Ctrl Delay	43.3
HCM 6th LOS	D

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	254	573	215	42	479	243	207	1536	52	138	1104	174
Future Volume (vph)	254	573	215	42	479	243	207	1536	52	138	1104	174
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	54.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag							Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?							Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	47.0	47.0	47.0	47.0	47.0	47.0	8.5	40.6	40.6	13.4	45.4	45.4
Actuated g/C Ratio	0.40	0.40	0.40	0.40	0.40	0.40	0.07	0.35	0.35	0.11	0.39	0.39
v/c Ratio	1.34	0.81	0.30	0.34	0.68	0.33	0.93	0.92	0.09	0.77	0.59	0.26
Control Delay	212.4	42.4	5.9	34.8	35.3	4.2	99.8	47.4	0.7	77.4	30.1	4.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	212.4	42.4	5.9	34.8	35.3	4.2	99.8	47.4	0.7	77.4	30.1	4.3
LOS	F	D	A	C	D	A	F	D	A	E	C	A
Approach Delay		76.3			25.4			52.1			31.5	
Approach LOS		E			C			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 117.5	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.34	
Intersection Signal Delay: 47.2	Intersection LOS: D
Intersection Capacity Utilization 102.5%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	254	573	215	42	479	243	207	1536	52	138	1104	174
Future Volume (veh/h)	254	573	215	42	479	243	207	1536	52	138	1104	174
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	259	585	168	43	489	237	211	1567	43	141	1127	127
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	186	733	621	141	733	613	231	1707	517	166	1848	566
Arrive On Green	0.41	0.41	0.41	0.41	0.41	0.41	0.07	0.35	0.35	0.10	0.38	0.38
Sat Flow, veh/h	662	1800	1525	645	1800	1505	3141	4914	1489	1619	4914	1506
Grp Volume(v), veh/h	259	585	168	43	489	237	211	1567	43	141	1127	127
Grp Sat Flow(s),veh/h/ln	662	1800	1525	645	1800	1505	1570	1638	1489	1619	1638	1506
Q Serve(g_s), s	21.5	32.9	8.5	7.2	25.5	12.8	7.7	35.3	2.2	9.9	21.4	6.6
Cycle Q Clear(g_c), s	47.0	32.9	8.5	40.2	25.5	12.8	7.7	35.3	2.2	9.9	21.4	6.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	186	733	621	141	733	613	231	1707	517	166	1848	566
V/C Ratio(X)	1.40	0.80	0.27	0.30	0.67	0.39	0.91	0.92	0.08	0.85	0.61	0.22
Avail Cap(c_a), veh/h	186	733	621	141	733	613	231	1746	529	217	2044	627
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.6	30.0	22.8	47.7	27.8	24.1	53.1	36.1	25.3	50.9	29.1	24.5
Incr Delay (d2), s/veh	207.2	6.2	0.2	1.2	2.3	0.4	35.6	8.1	0.1	17.4	0.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.0	14.6	3.0	1.2	10.8	4.4	4.0	14.3	0.8	4.6	7.9	2.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	257.8	36.2	23.0	48.9	30.1	24.5	88.7	44.2	25.4	68.4	29.6	24.7
LnGrp LOS	F	D	C	D	C	C	F	D	C	E	C	C
Approach Vol, veh/h		1012			769			1821			1395	
Approach Delay, s/veh		90.7			29.4			48.9			33.1	
Approach LOS		F			C			D			C	

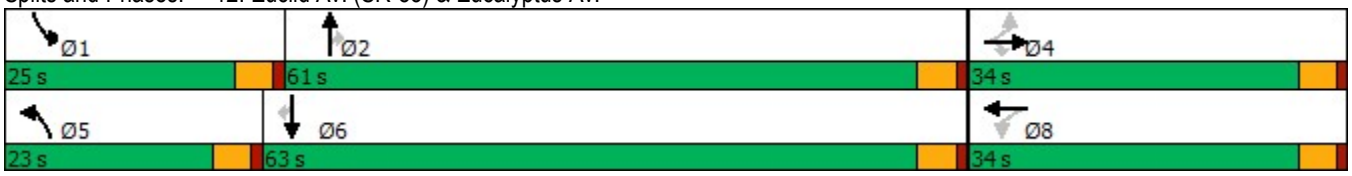
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.3	46.1		54.0	12.0	49.4		54.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	11.9	37.3		49.0	9.7	23.4		42.2				
Green Ext Time (p_c), s	0.1	2.8		0.0	0.0	8.0		1.8				

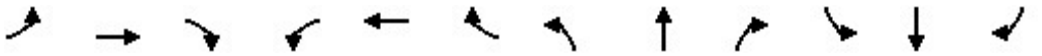
Intersection Summary			
HCM 6th Ctrl Delay		50.0	
HCM 6th LOS		D	

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	38	151	212	6	48	119	1628	21	137	1528	55
Future Volume (vph)	38	151	212	6	48	119	1628	21	137	1528	55
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	34.0	34.0	34.0	34.0	34.0	23.0	61.0	61.0	25.0	63.0	63.0
Total Split (%)	28.3%	28.3%	28.3%	28.3%	28.3%	19.2%	50.8%	50.8%	20.8%	52.5%	52.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	15.3	15.3	15.3	15.3	15.3	12.5	40.0	40.0	13.5	41.0	41.0
Actuated g/C Ratio	0.18	0.18	0.18	0.18	0.18	0.15	0.48	0.48	0.16	0.49	0.49
v/c Ratio	0.49	0.48	0.48	0.03	0.71	0.51	0.72	0.03	0.55	0.66	0.07
Control Delay	56.6	38.4	8.8	33.3	21.2	45.8	20.1	0.0	44.9	18.1	4.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	56.6	38.4	8.8	33.3	21.2	45.8	20.1	0.0	44.9	18.1	4.3
LOS	E	D	A	C	C	D	C	A	D	B	A
Approach Delay		24.5			21.4		21.6			19.8	
Approach LOS		C			C		C			B	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 83.3	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.72	
Intersection Signal Delay: 21.1	Intersection LOS: C
Intersection Capacity Utilization 81.2%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	151	212	6	48	271	119	1628	21	137	1528	55
Future Volume (veh/h)	38	151	212	6	48	271	119	1628	21	137	1528	55
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	40	157	112	6	50	279	124	1696	12	143	1592	31
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	153	483	409	284	64	355	154	2290	711	176	2356	731
Arrive On Green	0.27	0.27	0.27	0.27	0.27	0.27	0.10	0.47	0.47	0.11	0.48	0.48
Sat Flow, veh/h	955	1800	1525	1009	237	1324	1619	4914	1525	1619	4914	1524
Grp Volume(v), veh/h	40	157	112	6	0	329	124	1696	12	143	1592	31
Grp Sat Flow(s),veh/h/ln	955	1800	1525	1009	0	1562	1619	1638	1525	1619	1638	1524
Q Serve(g_s), s	3.5	6.0	5.0	0.4	0.0	16.8	6.4	24.2	0.4	7.4	21.4	0.9
Cycle Q Clear(g_c), s	20.3	6.0	5.0	6.4	0.0	16.8	6.4	24.2	0.4	7.4	21.4	0.9
Prop In Lane	1.00		1.00	1.00		0.85	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	153	483	409	284	0	419	154	2290	711	176	2356	731
V/C Ratio(X)	0.26	0.33	0.27	0.02	0.00	0.79	0.80	0.74	0.02	0.81	0.68	0.04
Avail Cap(c_a), veh/h	225	618	524	360	0	536	349	3232	1003	386	3347	1038
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.5	25.2	24.8	27.8	0.0	29.1	38.1	18.7	12.3	37.4	17.2	11.9
Incr Delay (d2), s/veh	0.9	0.4	0.4	0.0	0.0	5.9	9.4	0.6	0.0	8.7	0.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	2.5	1.7	0.1	0.0	6.5	2.8	7.7	0.1	3.1	6.7	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	39.4	25.6	25.2	27.8	0.0	35.0	47.4	19.3	12.3	46.1	17.6	11.9
LnGrp LOS	D	C	C	C	A	D	D	B	B	D	B	B
Approach Vol, veh/h		309			335			1832			1766	
Approach Delay, s/veh		27.2			34.9			21.1			19.8	
Approach LOS		C			C			C			B	

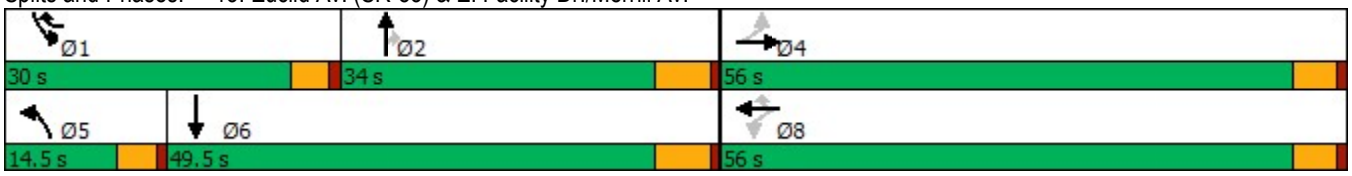
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.8	44.5		27.5	12.7	45.7		27.5				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	20.5	56.5		29.5	18.5	58.5		29.5				
Max Q Clear Time (g_c+I1), s	9.4	26.2		22.3	8.4	23.4		18.8				
Green Ext Time (p_c), s	0.2	13.9		0.8	0.2	13.5		1.4				

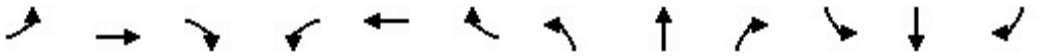
Intersection Summary			
HCM 6th Ctrl Delay		22.1	
HCM 6th LOS		C	

Lane Group	EBL	EBT	WBL	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	3	20	602	579	1	1139	348	380	1340
Future Volume (vph)	3	20	602	579	1	1139	348	380	1340
Turn Type	Perm	NA	Perm	pm+ov	Prot	NA	Perm	Prot	NA
Protected Phases		4		1	5	2		1	6
Permitted Phases	4		8	8			2		
Detector Phase	4	4	8	1	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	10.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	14.5	14.5	28.0	28.0	14.5	28.0
Total Split (s)	56.0	56.0	56.0	30.0	14.5	34.0	34.0	30.0	49.5
Total Split (%)	46.7%	46.7%	46.7%	25.0%	12.1%	28.3%	28.3%	25.0%	41.3%
Yellow Time (s)	4.0	4.0	4.0	3.5	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0	5.0	4.5	4.5	6.0	6.0	4.5	6.0
Lead/Lag				Lead	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?				Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		51.0	51.0	81.5	10.0	28.0	28.0	25.5	55.1
Actuated g/C Ratio		0.42	0.42	0.68	0.08	0.23	0.23	0.21	0.46
v/c Ratio		0.05	1.17	0.57	0.01	1.02	0.78	1.14	0.62
Control Delay		16.2	127.8	12.2	51.0	78.3	38.6	136.1	26.8
Queue Delay		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		16.2	127.8	12.2	51.0	78.3	38.6	136.1	26.8
LOS		B	F	B	D	E	D	F	C
Approach Delay		16.2				69.0			50.8
Approach LOS		B				E			D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.17	
Intersection Signal Delay: 62.1	Intersection LOS: E
Intersection Capacity Utilization 103.6%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	3	20	9	602	0	579	1	1139	348	380	1340	10
Future Volume (veh/h)	3	20	9	602	0	579	1	1139	348	380	1340	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	3	21	5	621	0	381	1	1174	235	392	1381	8
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	81	531	121	597	765	972	4	1147	348	344	2234	13
Arrive On Green	0.64	0.64	0.64	0.64	0.00	0.64	0.00	0.35	0.35	0.32	0.66	0.66
Sat Flow, veh/h	113	1250	284	1259	1800	1525	1619	4914	1492	1619	5041	29
Grp Volume(v), veh/h	29	0	0	621	0	381	1	1174	235	392	897	492
Grp Sat Flow(s),veh/h/ln	1647	0	0	1259	1800	1525	1619	1638	1492	1619	1638	1795
Q Serve(g_s), s	0.0	0.0	0.0	50.3	0.0	11.0	0.1	28.0	16.1	25.5	18.7	18.7
Cycle Q Clear(g_c), s	0.7	0.0	0.0	51.0	0.0	11.0	0.1	28.0	16.1	25.5	18.7	18.7
Prop In Lane	0.10		0.17	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	733	0	0	597	765	972	4	1147	348	344	1452	795
V/C Ratio(X)	0.04	0.00	0.00	1.04	0.00	0.39	0.23	1.02	0.67	1.14	0.62	0.62
Avail Cap(c_a), veh/h	733	0	0	597	765	972	135	1147	348	344	1452	795
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	12.6	0.0	0.0	24.2	0.0	6.2	59.6	39.0	35.1	40.9	14.3	14.3
Incr Delay (d2), s/veh	0.0	0.0	0.0	47.6	0.0	0.1	9.3	32.8	5.1	91.9	0.8	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.0	21.0	0.0	2.4	0.0	12.7	5.4	17.2	4.9	5.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	12.6	0.0	0.0	71.9	0.0	6.3	68.9	71.8	40.2	132.8	15.1	15.8
LnGrp LOS	B	A	A	F	A	A	E	F	D	F	B	B
Approach Vol, veh/h		29			1002			1410			1781	
Approach Delay, s/veh		12.6			46.9			66.5			41.2	
Approach LOS		B			D			E			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	30.0	34.0		56.0	4.8	59.2		56.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	25.5	28.0		51.0	10.0	43.5		51.0				
Max Q Clear Time (g_c+I1), s	27.5	30.0		2.7	2.1	20.7		53.0				
Green Ext Time (p_c), s	0.0	0.0		0.1	0.0	8.7		0.0				

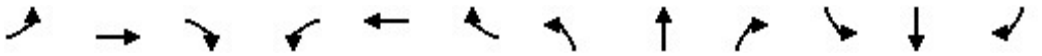
Intersection Summary			
HCM 6th Ctrl Delay		50.8	
HCM 6th LOS		D	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	365	946	74	87	455	207	89	857	195	544	1119	260
Future Volume (vph)	365	946	74	87	455	207	89	857	195	544	1119	260
Turn Type	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8	1	5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	1	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	24.0	44.0	44.0	10.6	30.6	32.0	18.4	33.4	10.6	32.0	47.0	24.0
Total Split (%)	20.0%	36.7%	36.7%	8.8%	25.5%	26.7%	15.3%	27.8%	8.8%	26.7%	39.2%	20.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	17.7	36.1	36.1	6.2	24.5	53.8	11.1	25.4	36.2	24.7	41.8	59.5
Actuated g/C Ratio	0.16	0.33	0.33	0.06	0.22	0.49	0.10	0.23	0.33	0.22	0.38	0.54
v/c Ratio	0.79	0.87	0.13	0.51	0.61	0.27	0.56	0.77	0.34	0.84	0.61	0.30
Control Delay	58.8	45.0	0.5	64.7	44.0	10.4	63.5	45.9	12.1	54.9	31.1	5.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.8	45.0	0.5	64.7	44.0	10.4	63.5	45.9	12.1	54.9	31.1	5.5
LOS	E	D	A	E	D	B	E	D	B	D	C	A
Approach Delay		46.2			37.1			41.5			34.4	
Approach LOS		D			D			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 110.6	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.87	
Intersection Signal Delay: 39.5	Intersection LOS: D
Intersection Capacity Utilization 82.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	365	946	74	87	455	207	89	857	195	544	1119	260
Future Volume (veh/h)	365	946	74	87	455	207	89	857	195	544	1119	260
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	372	965	45	89	464	109	91	874	117	555	1142	132
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	440	1130	504	145	779	674	113	1118	417	632	1824	786
Arrive On Green	0.16	0.36	0.36	0.05	0.25	0.25	0.08	0.25	0.25	0.24	0.41	0.41
Sat Flow, veh/h	2956	3420	1525	3141	3420	1525	1619	4914	1525	2956	4914	1506
Grp Volume(v), veh/h	372	965	45	89	464	109	91	874	117	555	1142	132
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1570	1710	1525	1619	1638	1525	1478	1638	1506
Q Serve(g_s), s	12.1	25.7	1.9	2.7	11.8	4.2	5.5	16.4	5.8	17.9	18.2	4.3
Cycle Q Clear(g_c), s	12.1	25.7	1.9	2.7	11.8	4.2	5.5	16.4	5.8	17.9	18.2	4.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	440	1130	504	145	779	674	113	1118	417	632	1824	786
V/C Ratio(X)	0.85	0.85	0.09	0.61	0.60	0.16	0.80	0.78	0.28	0.88	0.63	0.17
Avail Cap(c_a), veh/h	583	1367	610	194	903	729	228	1437	517	823	2114	875
HCM Platoon Ratio	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.2	29.3	21.7	46.0	33.0	16.1	44.9	34.8	27.4	36.5	23.8	11.7
Incr Delay (d2), s/veh	8.6	4.7	0.1	4.1	0.8	0.1	12.2	2.2	0.4	8.6	0.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	10.2	0.7	1.1	4.7	1.4	2.4	6.1	2.0	6.6	6.1	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	48.8	34.0	21.8	50.2	33.8	16.2	57.1	36.9	27.7	45.2	24.2	11.8
LnGrp LOS	D	C	C	D	C	B	E	D	C	D	C	B
Approach Vol, veh/h		1382			662			1082			1829	
Approach Delay, s/veh		37.6			33.1			37.6			29.7	
Approach LOS		D			C			D			C	

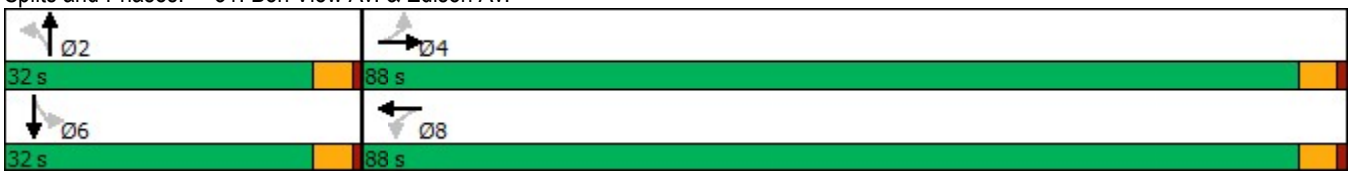
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.6	27.0	9.1	37.1	11.4	41.2	19.2	27.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	27.5	28.9	6.1	39.5	13.9	42.5	19.5	26.1
Max Q Clear Time (g_c+I1), s	19.9	18.4	4.7	27.7	7.5	20.2	14.1	13.8
Green Ext Time (p_c), s	1.3	4.1	0.0	4.9	0.1	7.8	0.6	2.5

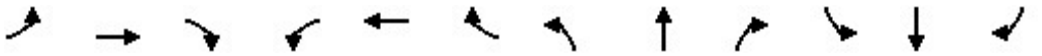
Intersection Summary	
HCM 6th Ctrl Delay	34.1
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	65	730	6	660	8	186	20	180
Future Volume (vph)	65	730	6	660	8	186	20	180
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	88.0	88.0	88.0	88.0	32.0	32.0	32.0	32.0
Total Split (%)	73.3%	73.3%	73.3%	73.3%	26.7%	26.7%	26.7%	26.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		46.4		46.4		16.5		16.5
Actuated g/C Ratio		0.63		0.63		0.23		0.23
v/c Ratio		0.82		0.62		0.54		0.60
Control Delay		17.7		10.5		34.3		35.8
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		17.7		10.5		34.3		35.8
LOS		B		B		C		D
Approach Delay		17.7		10.5		34.3		35.8
Approach LOS		B		B		C		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 73.2	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.82	
Intersection Signal Delay: 19.0	Intersection LOS: B
Intersection Capacity Utilization 110.0%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	65	730	25	6	660	17	8	186	13	20	180	24
Future Volume (veh/h)	65	730	25	6	660	17	8	186	13	20	180	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	71	793	27	7	717	18	9	202	14	22	196	26
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	137	991	33	83	1116	28	89	330	22	104	297	37
Arrive On Green	0.61	0.61	0.61	0.61	0.61	0.61	0.19	0.19	0.19	0.19	0.19	0.19
Sat Flow, veh/h	84	1629	54	4	1834	46	31	1716	116	89	1543	195
Grp Volume(v), veh/h	891	0	0	742	0	0	225	0	0	244	0	0
Grp Sat Flow(s),veh/h/ln	1766	0	0	1884	0	0	1864	0	0	1827	0	0
Q Serve(g_s), s	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
Cycle Q Clear(g_c), s	17.0	0.0	0.0	11.4	0.0	0.0	5.0	0.0	0.0	5.5	0.0	0.0
Prop In Lane	0.08		0.03	0.01		0.02	0.04		0.06	0.09		0.11
Lane Grp Cap(c), veh/h	1161	0	0	1227	0	0	441	0	0	438	0	0
V/C Ratio(X)	0.77	0.00	0.00	0.60	0.00	0.00	0.51	0.00	0.00	0.56	0.00	0.00
Avail Cap(c_a), veh/h	3239	0	0	3530	0	0	1204	0	0	1174	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	6.6	0.0	0.0	5.7	0.0	0.0	16.8	0.0	0.0	17.0	0.0	0.0
Incr Delay (d2), s/veh	1.1	0.0	0.0	0.5	0.0	0.0	0.9	0.0	0.0	1.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	0.0	1.8	0.0	0.0	1.8	0.0	0.0	2.0	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	7.7	0.0	0.0	6.2	0.0	0.0	17.7	0.0	0.0	18.1	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		891			742			225			244	
Approach Delay, s/veh		7.7			6.2			17.7			18.1	
Approach LOS		A			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		13.2		32.0		13.2		32.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		27.5		83.5		27.5		83.5				
Max Q Clear Time (g_c+I1), s		7.0		19.0		7.5		13.4				
Green Ext Time (p_c), s		1.1		8.6		1.2		5.7				

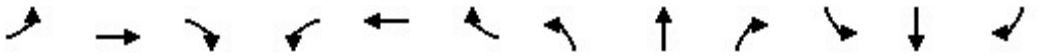
Intersection Summary												
HCM 6th Ctrl Delay			9.4									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	119	230	2	79	35	627	61	228
Future Volume (vph)	119	230	2	79	35	627	61	228
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	51.0	51.0	51.0	51.0	69.0	69.0	69.0	69.0
Total Split (%)	42.5%	42.5%	42.5%	42.5%	57.5%	57.5%	57.5%	57.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		33.2		33.2		44.1		44.1
Actuated g/C Ratio		0.38		0.38		0.51		0.51
v/c Ratio		0.80		0.20		0.83		0.48
Control Delay		36.2		17.5		28.1		17.2
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		36.2		17.5		28.1		17.2
LOS		D		B		C		B
Approach Delay		36.2		17.5		28.1		17.2
Approach LOS		D		B		C		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 87.3	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.83	
Intersection Signal Delay: 27.4	Intersection LOS: C
Intersection Capacity Utilization 83.1%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 32: Grove Av. & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	119	230	104	2	79	49	35	627	34	61	228	33
Future Volume (veh/h)	119	230	104	2	79	49	35	627	34	61	228	33
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	131	253	114	2	87	54	38	689	37	67	251	36
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	206	329	136	63	397	242	87	836	44	162	568	75
Arrive On Green	0.36	0.36	0.36	0.36	0.36	0.36	0.49	0.49	0.49	0.49	0.49	0.49
Sat Flow, veh/h	361	913	378	5	1100	670	49	1710	90	185	1162	153
Grp Volume(v), veh/h	498	0	0	143	0	0	764	0	0	354	0	0
Grp Sat Flow(s),veh/h/ln	1652	0	0	1775	0	0	1849	0	0	1500	0	0
Q Serve(g_s), s	13.0	0.0	0.0	0.0	0.0	0.0	8.0	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	16.3	0.0	0.0	3.3	0.0	0.0	21.3	0.0	0.0	7.1	0.0	0.0
Prop In Lane	0.26		0.23	0.01		0.38	0.05		0.05	0.19		0.10
Lane Grp Cap(c), veh/h	672	0	0	701	0	0	967	0	0	804	0	0
V/C Ratio(X)	0.74	0.00	0.00	0.20	0.00	0.00	0.79	0.00	0.00	0.44	0.00	0.00
Avail Cap(c_a), veh/h	1350	0	0	1438	0	0	2045	0	0	1660	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	17.3	0.0	0.0	13.3	0.0	0.0	13.2	0.0	0.0	9.6	0.0	0.0
Incr Delay (d2), s/veh	1.6	0.0	0.0	0.1	0.0	0.0	1.5	0.0	0.0	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.3	0.0	0.0	1.1	0.0	0.0	6.7	0.0	0.0	2.2	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	18.9	0.0	0.0	13.4	0.0	0.0	14.7	0.0	0.0	10.0	0.0	0.0
LnGrp LOS	B	A	A	B	A	A	B	A	A	B	A	A
Approach Vol, veh/h		498			143			764			354	
Approach Delay, s/veh		18.9			13.4			14.7			10.0	
Approach LOS		B			B			B			B	

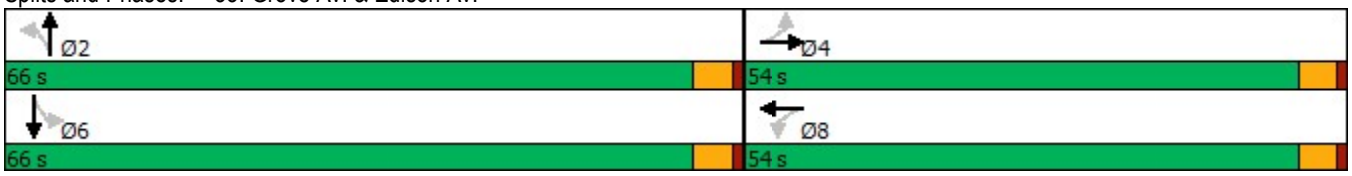
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		33.7		26.0		33.7		26.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		64.5		46.5		64.5		46.5				
Max Q Clear Time (g_c+I1), s		23.3		18.3		9.1		5.3				
Green Ext Time (p_c), s		5.9		3.2		2.6		0.8				

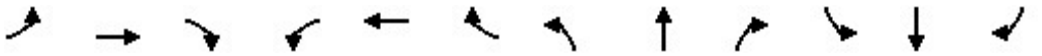
Intersection Summary		
HCM 6th Ctrl Delay		14.8
HCM 6th LOS		B

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	53	538	25	230	439	593	53	260
Future Volume (vph)	53	538	25	230	439	593	53	260
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	54.0	54.0	54.0	54.0	66.0	66.0	66.0	66.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	55.0%	55.0%	55.0%	55.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	49.5	49.5	49.5	49.5	61.5	61.5	61.5	61.5
Actuated g/C Ratio	0.41	0.41	0.41	0.41	0.51	0.51	0.51	0.51
v/c Ratio	0.17	1.04	0.48	0.39	0.98	0.44	0.22	0.18
Control Delay	24.1	79.0	58.7	25.9	66.6	18.7	19.1	15.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	24.1	79.0	58.7	25.9	66.6	18.7	19.1	15.3
LOS	C	E	E	C	E	B	B	B
Approach Delay		75.1		28.7		37.1		15.9
Approach LOS		E		C		D		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.04	
Intersection Signal Delay: 44.6	Intersection LOS: D
Intersection Capacity Utilization 95.3%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	53	538	165	25	230	36	439	593	111	53	260	26
Future Volume (veh/h)	53	538	165	25	230	36	439	593	111	53	260	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	57	578	177	27	247	39	472	638	119	57	280	28
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	356	545	167	60	626	99	512	1475	275	300	1610	160
Arrive On Green	0.41	0.41	0.41	0.41	0.41	0.41	0.51	0.51	0.51	0.51	0.51	0.51
Sat Flow, veh/h	994	1322	405	644	1517	240	974	2878	536	643	3142	312
Grp Volume(v), veh/h	57	0	755	27	0	286	472	379	378	57	151	157
Grp Sat Flow(s),veh/h/ln	994	0	1727	644	0	1757	974	1710	1704	643	1710	1744
Q Serve(g_s), s	5.1	0.0	49.5	0.0	0.0	13.7	55.7	16.6	16.7	7.3	5.7	5.8
Cycle Q Clear(g_c), s	18.8	0.0	49.5	49.5	0.0	13.7	61.5	16.6	16.7	24.0	5.7	5.8
Prop In Lane	1.00		0.23	1.00		0.14	1.00		0.31	1.00		0.18
Lane Grp Cap(c), veh/h	356	0	712	60	0	725	512	876	873	300	876	894
V/C Ratio(X)	0.16	0.00	1.06	0.45	0.00	0.39	0.92	0.43	0.43	0.19	0.17	0.18
Avail Cap(c_a), veh/h	356	0	712	60	0	725	512	876	873	300	876	894
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.3	0.0	35.3	60.0	0.0	24.7	33.3	18.3	18.3	25.9	15.6	15.7
Incr Delay (d2), s/veh	0.2	0.0	50.7	5.2	0.0	0.3	22.2	0.3	0.3	0.3	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.0	29.5	0.9	0.0	5.5	16.0	6.1	6.1	1.1	2.1	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.6	0.0	85.9	65.2	0.0	25.1	55.5	18.7	18.7	26.2	15.7	15.8
LnGrp LOS	C	A	F	E	A	C	E	B	B	C	B	B
Approach Vol, veh/h		812			313			1229			365	
Approach Delay, s/veh		82.1			28.5			32.8			17.4	
Approach LOS		F			C			C			B	

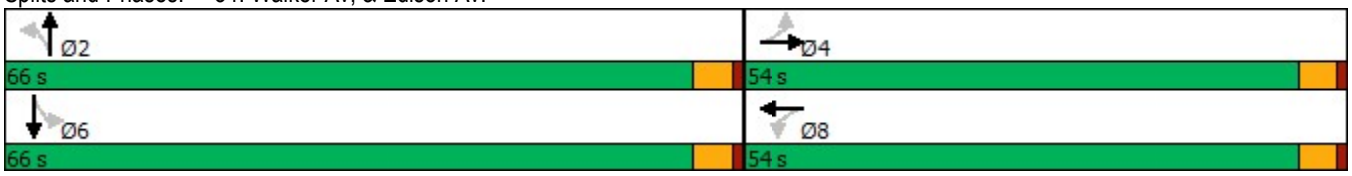
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		66.0		54.0		66.0		54.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		61.5		49.5		61.5		49.5				
Max Q Clear Time (g_c+I1), s		63.5		51.5		26.0		51.5				
Green Ext Time (p_c), s		0.0		0.0		2.1		0.0				

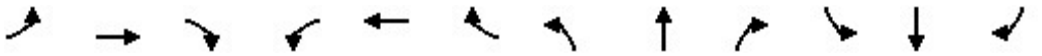
Intersection Summary												
HCM 6th Ctrl Delay			45.0									
HCM 6th LOS			D									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	20	661	196	263	1	110	167	58
Future Volume (vph)	20	661	196	263	1	110	167	58
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	54.0	54.0	54.0	54.0	66.0	66.0	66.0	66.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	55.0%	55.0%	55.0%	55.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	49.5	49.5	49.5	49.5	61.5	61.5	61.5	61.5
Actuated g/C Ratio	0.41	0.41	0.41	0.41	0.51	0.51	0.51	0.51
v/c Ratio	0.06	0.48	1.02	0.25	0.00	0.96	2.89	0.09
Control Delay	21.9	27.3	103.8	21.3	14.0	47.3	908.7	11.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	21.9	27.3	103.8	21.3	14.0	47.3	908.7	11.5
LOS	C	C	F	C	B	D	F	B
Approach Delay		27.1		51.8		47.3		625.4
Approach LOS		C		D		D		F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 50	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.89	
Intersection Signal Delay: 104.9	Intersection LOS: F
Intersection Capacity Utilization 101.6%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 34: Walker Av, & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	661	3	196	263	71	1	110	686	167	58	19
Future Volume (veh/h)	20	661	3	196	263	71	1	110	686	167	58	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	22	718	3	213	286	55	1	120	529	182	63	21
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	430	1521	6	261	1249	237	712	157	692	218	699	233
Arrive On Green	0.41	0.41	0.41	0.41	0.41	0.41	0.51	0.51	0.51	0.51	0.51	0.51
Sat Flow, veh/h	1056	3687	15	743	3027	574	1335	306	1351	795	1364	455
Grp Volume(v), veh/h	22	352	369	213	169	172	1	0	649	182	0	84
Grp Sat Flow(s),veh/h/ln	1056	1805	1897	743	1805	1797	1335	0	1657	795	0	1818
Q Serve(g_s), s	1.7	17.0	17.1	32.4	7.3	7.5	0.0	0.0	37.7	23.8	0.0	2.8
Cycle Q Clear(g_c), s	9.1	17.0	17.1	49.5	7.3	7.5	2.9	0.0	37.7	61.5	0.0	2.8
Prop In Lane	1.00		0.01	1.00		0.32	1.00		0.82	1.00		0.25
Lane Grp Cap(c), veh/h	430	745	783	261	745	741	712	0	849	218	0	932
V/C Ratio(X)	0.05	0.47	0.47	0.82	0.23	0.23	0.00	0.00	0.76	0.84	0.00	0.09
Avail Cap(c_a), veh/h	430	745	783	261	745	741	712	0	849	218	0	932
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	25.9	25.7	25.7	44.7	22.8	22.9	15.7	0.0	23.4	49.7	0.0	15.0
Incr Delay (d2), s/veh	0.0	0.5	0.4	17.9	0.2	0.2	0.0	0.0	4.2	23.6	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	7.1	7.4	7.5	3.0	3.1	0.0	0.0	14.5	6.8	0.0	1.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.9	26.2	26.2	62.6	23.0	23.1	15.7	0.0	27.6	73.3	0.0	15.0
LnGrp LOS	C	C	C	E	C	C	B	A	C	E	A	B
Approach Vol, veh/h		743			554			650			266	
Approach Delay, s/veh		26.2			38.2			27.6			54.9	
Approach LOS		C			D			C			D	

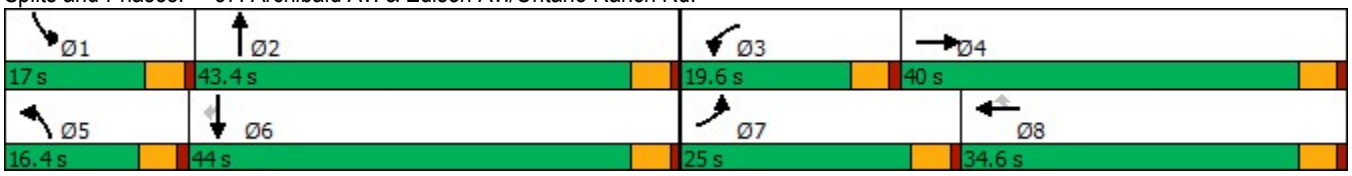
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		66.0		54.0		66.0		54.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		61.5		49.5		61.5		49.5				
Max Q Clear Time (g_c+I1), s		39.7		19.1		63.5		51.5				
Green Ext Time (p_c), s		4.5		4.4		0.0		0.0				

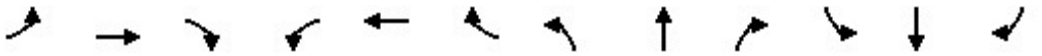
Intersection Summary												
HCM 6th Ctrl Delay			33.1									
HCM 6th LOS			C									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	318	1071	293	377	376	116	106	1146	608	162	964	137
Future Volume (vph)	318	1071	293	377	376	116	106	1146	608	162	964	137
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	25.0	40.0		19.6	34.6	34.6	16.4	43.4		17.0	44.0	44.0
Total Split (%)	20.8%	33.3%		16.3%	28.8%	28.8%	13.7%	36.2%		14.2%	36.7%	36.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	17.3	35.6	115.3	15.1	33.4	33.4	9.4	34.1	115.3	12.5	37.2	37.2
Actuated g/C Ratio	0.15	0.31	1.00	0.13	0.29	0.29	0.08	0.30	1.00	0.11	0.32	0.32
v/c Ratio	0.73	1.02	0.20	1.00	0.40	0.23	0.44	0.76	0.42	0.98	0.87	0.25
Control Delay	57.2	71.3	0.3	95.2	36.0	5.7	56.5	40.1	0.8	115.3	46.5	6.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.2	71.3	0.3	95.2	36.0	5.7	56.5	40.1	0.8	115.3	46.5	6.6
LOS	E	E	A	F	D	A	E	D	A	F	D	A
Approach Delay		56.3			57.6			28.2			51.1	
Approach LOS		E			E			C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 115.3	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.02	
Intersection Signal Delay: 46.1	Intersection LOS: D
Intersection Capacity Utilization 92.4%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	318	1071	293	377	376	116	106	1146	608	162	964	137
Future Volume (veh/h)	318	1071	293	377	376	116	106	1146	608	162	964	137
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	335	1127	0	397	396	64	112	1206	0	171	1015	81
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	398	1135		409	1091	486	164	1510		180	1218	516
Arrive On Green	0.13	0.32	0.00	0.13	0.32	0.32	0.05	0.28	0.00	0.11	0.34	0.34
Sat Flow, veh/h	3048	3600	1525	3048	3420	1524	3141	5400	1525	1619	3600	1525
Grp Volume(v), veh/h	335	1127	0	397	396	64	112	1206	0	171	1015	81
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1710	1524	1570	1800	1525	1619	1800	1525
Q Serve(g_s), s	12.1	35.1	0.0	14.6	10.0	3.4	3.9	23.3	0.0	11.8	29.2	4.2
Cycle Q Clear(g_c), s	12.1	35.1	0.0	14.6	10.0	3.4	3.9	23.3	0.0	11.8	29.2	4.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	398	1135		409	1091	486	164	1510		180	1218	516
V/C Ratio(X)	0.84	0.99		0.97	0.36	0.13	0.68	0.80		0.95	0.83	0.16
Avail Cap(c_a), veh/h	555	1135		409	1091	486	332	1866		180	1263	535
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.8	38.4	0.0	48.5	29.5	27.3	52.4	37.6	0.0	49.7	34.3	26.0
Incr Delay (d2), s/veh	8.2	24.9	0.0	36.8	0.2	0.1	4.9	2.1	0.0	52.9	4.8	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.9	18.4	0.0	7.4	3.9	1.2	1.6	9.9	0.0	7.2	12.6	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	56.0	63.3	0.0	85.4	29.7	27.4	57.3	39.7	0.0	102.6	39.1	26.2
LnGrp LOS	E	E		F	C	C	E	D		F	D	C
Approach Vol, veh/h		1462	A		857			1318	A		1267	
Approach Delay, s/veh		61.6			55.3			41.2			46.9	
Approach LOS		E			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.0	36.0	19.6	40.0	10.4	42.6	19.2	40.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	12.5	38.9	15.1	35.5	11.9	39.5	20.5	30.1
Max Q Clear Time (g_c+I1), s	13.8	25.3	16.6	37.1	5.9	31.2	14.1	12.0
Green Ext Time (p_c), s	0.0	6.1	0.0	0.0	0.1	4.0	0.6	2.3

Intersection Summary	
HCM 6th Ctrl Delay	51.2
HCM 6th LOS	D

Notes

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

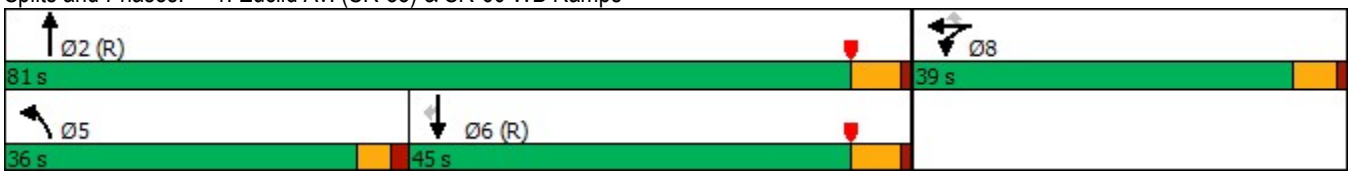
APPENDIX 6.7: OPENING YEAR CUMULATIVE (2027) WITH PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS WITH IMPROVEMENTS

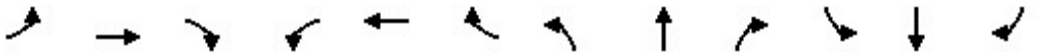
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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	794	7	406	576	963	1012	388
Future Volume (vph)	794	7	406	576	963	1012	388
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5	22.5
Total Split (s)	39.0	39.0	39.0	36.0	81.0	45.0	45.0
Total Split (%)	32.5%	32.5%	32.5%	30.0%	67.5%	37.5%	37.5%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5	5.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min
Act Effct Green (s)	34.1	34.1	34.1	25.5	75.4	45.4	45.4
Actuated g/C Ratio	0.28	0.28	0.28	0.21	0.63	0.38	0.38
v/c Ratio	0.93	0.97	0.75	0.83	0.46	0.80	0.50
Control Delay	69.3	77.7	36.5	69.4	9.8	39.3	7.5
Queue Delay	0.0	0.0	0.0	0.0	0.2	0.0	0.0
Total Delay	69.3	77.7	36.5	69.4	10.1	39.3	7.5
LOS	E	E	D	E	B	D	A
Approach Delay		62.3			32.3	30.5	
Approach LOS		E			C	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 80	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 40.4	Intersection LOS: D
Intersection Capacity Utilization 151.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	794	7	406	576	963	0	0	1012	388
Future Volume (veh/h)	0	0	0	794	7	406	576	963	0	0	1012	388
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				940	0	180	619	1035	0	0	1088	250
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				996	0	443	675	2300	0	0	1471	656
Arrive On Green				0.28	0.00	0.28	0.38	1.00	0.00	0.00	0.41	0.41
Sat Flow, veh/h				3619	0	1610	3510	3705	0	0	3705	1610
Grp Volume(v), veh/h				940	0	180	619	1035	0	0	1088	250
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1755	1805	0	0	1805	1610
Q Serve(g_s), s				30.5	0.0	10.9	20.1	0.0	0.0	0.0	30.7	13.1
Cycle Q Clear(g_c), s				30.5	0.0	10.9	20.1	0.0	0.0	0.0	30.7	13.1
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				996	0	443	675	2300	0	0	1471	656
V/C Ratio(X)				0.94	0.00	0.41	0.92	0.45	0.00	0.00	0.74	0.38
Avail Cap(c_a), veh/h				1025	0	456	922	2300	0	0	1471	656
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.57	0.57	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				42.6	0.0	35.5	36.0	0.0	0.0	0.0	30.2	24.9
Incr Delay (d2), s/veh				15.8	0.0	0.2	5.8	0.4	0.0	0.0	3.4	1.7
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				15.3	0.0	4.2	7.1	0.1	0.0	0.0	13.5	5.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				58.3	0.0	35.7	41.8	0.4	0.0	0.0	33.5	26.6
LnGrp LOS				E	A	D	D	A	A	A	C	C
Approach Vol, veh/h					1120			1654			1338	
Approach Delay, s/veh					54.7			15.9			32.2	
Approach LOS					D			B			C	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	82.0		27.6	54.4		38.0						
Change Period (Y+Rc), s	5.5		4.5	5.5		5.0						
Max Green Setting (Gmax), s	75.5		31.5	39.5		34.0						
Max Q Clear Time (g_c+I1), s	2.0		22.1	32.7		32.5						
Green Ext Time (p_c), s	14.1		0.9	5.0		0.5						

Intersection Summary		
HCM 6th Ctrl Delay		31.8
HCM 6th LOS		C

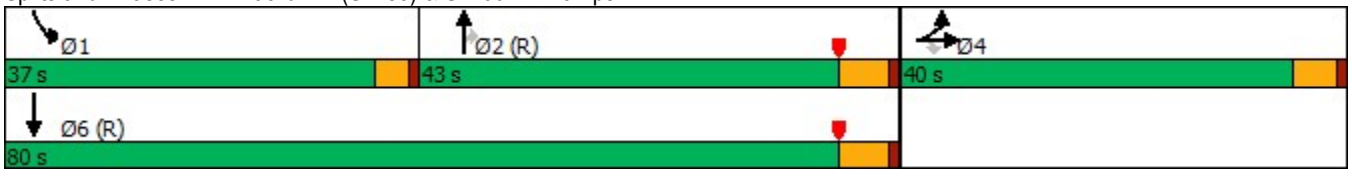
Notes

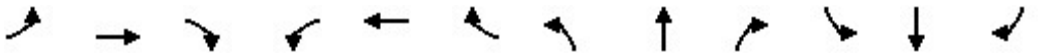
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Configurations							
Traffic Volume (vph)	427	0	1006	1112	841	411	1395
Future Volume (vph)	427	0	1006	1112	841	411	1395
Turn Type	Split	NA	Perm	NA	Perm	Prot	NA
Protected Phases	4	4		2		1	6
Permitted Phases			4		2		
Detector Phase	4	4	4	2	2	1	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	40.0	40.0	40.0	43.0	43.0	37.0	80.0
Total Split (%)	33.3%	33.3%	33.3%	35.8%	35.8%	30.8%	66.7%
Yellow Time (s)	4.0	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag				Lag	Lag	Lead	
Lead-Lag Optimize?				Yes	Yes	Yes	
Recall Mode	None	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	35.0	35.0	35.0	51.5	51.5	19.0	74.5
Actuated g/C Ratio	0.29	0.29	0.29	0.43	0.43	0.16	0.62
v/c Ratio	0.79	1.14	1.10	0.74	0.84	0.77	0.64
Control Delay	52.1	122.2	107.6	32.9	16.7	55.1	16.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	1.0
Total Delay	52.1	122.2	107.6	32.9	16.7	55.1	17.8
LOS	D	F	F	C	B	E	B
Approach Delay		98.1		25.9			26.3
Approach LOS		F		C			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 75	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.14	
Intersection Signal Delay: 46.0	Intersection LOS: D
Intersection Capacity Utilization 151.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	427	0	1006	0	0	0	0	1112	841	411	1395	0
Future Volume (veh/h)	427	0	1006	0	0	0	0	1112	841	411	1395	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	293	0	1115				0	1146	672	424	1438	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	528	0	939				0	1623	713	484	2241	0
Arrive On Green	0.29	0.00	0.29				0.00	0.45	0.45	0.28	1.00	0.00
Sat Flow, veh/h	1810	0	3220				0	3705	1586	3510	3705	0
Grp Volume(v), veh/h	293	0	1115				0	1146	672	424	1438	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1586	1755	1805	0
Q Serve(g_s), s	16.4	0.0	35.0				0.0	30.7	48.6	13.8	0.0	0.0
Cycle Q Clear(g_c), s	16.4	0.0	35.0				0.0	30.7	48.6	13.8	0.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	528	0	939				0	1623	713	484	2241	0
V/C Ratio(X)	0.56	0.00	1.19				0.00	0.71	0.94	0.88	0.64	0.00
Avail Cap(c_a), veh/h	528	0	939				0	1623	713	965	2241	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.56	0.56	0.44	0.44	0.00
Uniform Delay (d), s/veh	35.9	0.0	42.5				0.0	26.6	31.6	42.5	0.0	0.0
Incr Delay (d2), s/veh	0.8	0.0	95.0				0.0	1.5	14.8	0.9	0.6	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	0.0	25.7				0.0	12.9	20.4	5.1	0.2	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	36.7	0.0	137.5				0.0	28.1	46.3	43.4	0.6	0.0
LnGrp LOS	D	A	F				A	C	D	D	A	A
Approach Vol, veh/h		1408						1818			1862	
Approach Delay, s/veh		116.5						34.8			10.4	
Approach LOS		F						C			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	20.6	59.4		40.0		80.0
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	33.0	37.5		35.0		74.5
Max Q Clear Time (g_c+I1), s	15.8	50.6		37.0		2.0
Green Ext Time (p_c), s	0.7	0.0		0.0		25.4

Intersection Summary		
HCM 6th Ctrl Delay		48.5
HCM 6th LOS		D

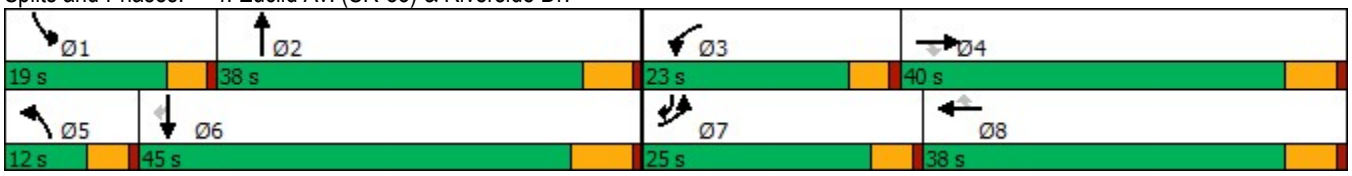
Notes

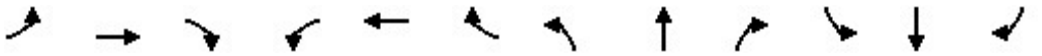
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	184	357	134	237	506	108	67	1254	243	1904	131
Future Volume (vph)	184	357	134	237	506	108	67	1254	243	1904	131
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	1	6	7
Permitted Phases			4			8					6
Detector Phase	7	4	4	3	8	8	5	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	25.8	9.6	31.8	31.8	9.6	30.4	9.6	34.5	9.6
Total Split (s)	25.0	40.0	40.0	23.0	38.0	38.0	12.0	38.0	19.0	45.0	25.0
Total Split (%)	20.8%	33.3%	33.3%	19.2%	31.7%	31.7%	10.0%	31.7%	15.8%	37.5%	20.8%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min	None
Act Effct Green (s)	16.0	20.6	20.6	18.5	23.0	23.0	7.0	32.8	14.5	41.3	63.9
Actuated g/C Ratio	0.15	0.19	0.19	0.17	0.22	0.22	0.07	0.31	0.14	0.39	0.60
v/c Ratio	0.78	0.55	0.33	0.87	0.70	0.25	0.64	0.93	1.14	1.02	0.14
Control Delay	65.8	41.6	5.9	73.7	44.6	3.0	77.9	47.9	145.8	60.7	3.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	65.8	41.6	5.9	73.7	44.6	3.0	77.9	47.9	145.8	60.7	3.3
LOS	E	D	A	E	D	A	E	D	F	E	A
Approach Delay		41.1			47.5			49.3		66.5	
Approach LOS		D			D			D		E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 106.8	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.14	
Intersection Signal Delay: 55.4	Intersection LOS: E
Intersection Capacity Utilization 87.3%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	184	357	134	237	506	108	67	1254	104	243	1904	131
Future Volume (veh/h)	184	357	134	237	506	108	67	1254	104	243	1904	131
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	188	364	110	242	516	58	68	1280	64	248	1943	79
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	218	553	243	271	664	292	85	1476	74	236	1972	817
Arrive On Green	0.13	0.16	0.16	0.17	0.19	0.19	0.05	0.31	0.31	0.15	0.40	0.40
Sat Flow, veh/h	1619	3420	1505	1619	3420	1501	1619	4793	240	1619	4914	1525
Grp Volume(v), veh/h	188	364	110	242	516	58	68	875	469	248	1943	79
Grp Sat Flow(s),veh/h/ln	1619	1710	1505	1619	1710	1501	1619	1638	1757	1619	1638	1525
Q Serve(g_s), s	11.2	9.9	6.5	14.5	14.1	3.2	4.1	24.9	24.9	14.4	38.7	2.5
Cycle Q Clear(g_c), s	11.2	9.9	6.5	14.5	14.1	3.2	4.1	24.9	24.9	14.4	38.7	2.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.14	1.00		1.00
Lane Grp Cap(c), veh/h	218	553	243	271	664	292	85	1009	541	236	1972	817
V/C Ratio(X)	0.86	0.66	0.45	0.89	0.78	0.20	0.80	0.87	0.87	1.05	0.99	0.10
Avail Cap(c_a), veh/h	334	1184	521	302	1115	489	121	1081	580	236	1972	817
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.9	38.9	37.5	40.3	37.8	33.4	46.3	32.3	32.3	42.2	29.3	11.2
Incr Delay (d2), s/veh	8.9	1.3	1.3	23.9	2.0	0.3	14.3	7.3	12.6	72.6	16.8	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	4.1	2.4	7.3	5.8	1.1	1.9	10.0	11.5	10.3	17.1	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.7	40.2	38.8	64.2	39.8	33.7	60.7	39.6	44.9	114.8	46.1	11.3
LnGrp LOS	D	D	D	E	D	C	E	D	D	F	D	B
Approach Vol, veh/h		662			816			1412			2270	
Approach Delay, s/veh		43.0			46.6			42.4			52.4	
Approach LOS		D			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	36.9	21.1	21.8	9.8	46.2	17.9	25.0
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	14.4	* 33	18.4	34.2	7.4	38.5	20.4	32.2
Max Q Clear Time (g_c+I1), s	16.4	26.9	16.5	11.9	6.1	40.7	13.2	16.1
Green Ext Time (p_c), s	0.0	3.5	0.1	2.4	0.0	0.0	0.1	2.9

Intersection Summary	
HCM 6th Ctrl Delay	47.5
HCM 6th LOS	D

Notes

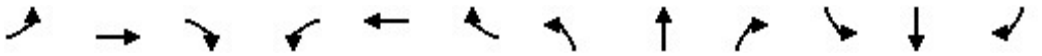
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	77	196	75	119	304	48	1270	132	87	2048	95
Future Volume (vph)	77	196	75	119	304	48	1270	132	87	2048	95
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	52.0	52.0	52.0	52.0	52.0	12.0	52.0	52.0	16.0	56.0	56.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	43.3%	10.0%	43.3%	43.3%	13.3%	46.7%	46.7%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8	5.8	5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	34.4	34.4	34.4	34.4	34.4	6.7	49.1	49.1	9.4	50.3	50.3
Actuated g/C Ratio	0.32	0.32	0.32	0.32	0.32	0.06	0.46	0.46	0.09	0.47	0.47
v/c Ratio	0.82	0.35	0.14	0.40	0.87	0.50	0.58	0.19	0.64	0.92	0.13
Control Delay	86.5	29.0	6.1	32.0	48.2	68.9	24.8	12.4	69.7	35.6	8.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	86.5	29.0	6.1	32.0	48.2	68.9	24.8	12.4	69.7	35.6	8.2
LOS	F	C	A	C	D	E	C	B	E	D	A
Approach Delay		36.8			44.9		25.1			35.7	
Approach LOS		D			D		C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 106.1	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.92	
Intersection Signal Delay: 33.7	Intersection LOS: C
Intersection Capacity Utilization 101.0%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	77	196	75	119	304	169	48	1270	132	87	2048	95
Future Volume (veh/h)	77	196	75	119	304	169	48	1270	132	87	2048	95
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	80	204	57	124	317	175	50	1323	98	91	2133	62
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	160	674	571	362	408	225	62	2009	624	112	2160	671
Arrive On Green	0.37	0.37	0.37	0.37	0.37	0.37	0.04	0.41	0.41	0.07	0.44	0.44
Sat Flow, veh/h	822	1800	1525	1017	1090	602	1619	4914	1525	1619	4914	1525
Grp Volume(v), veh/h	80	204	57	124	0	492	50	1323	98	91	2133	62
Grp Sat Flow(s),veh/h/ln	822	1800	1525	1017	0	1692	1619	1638	1525	1619	1638	1525
Q Serve(g_s), s	10.9	9.2	2.8	11.2	0.0	29.4	3.5	24.9	4.6	6.3	49.2	2.7
Cycle Q Clear(g_c), s	40.2	9.2	2.8	20.4	0.0	29.4	3.5	24.9	4.6	6.3	49.2	2.7
Prop In Lane	1.00		1.00	1.00		0.36	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	160	674	571	362	0	633	62	2009	624	112	2160	671
V/C Ratio(X)	0.50	0.30	0.10	0.34	0.00	0.78	0.81	0.66	0.16	0.81	0.99	0.09
Avail Cap(c_a), veh/h	184	727	616	392	0	683	105	2009	624	161	2160	671
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.3	25.3	23.3	32.4	0.0	31.6	54.6	27.4	21.4	52.6	31.8	18.7
Incr Delay (d2), s/veh	2.4	0.3	0.1	0.6	0.0	5.3	8.8	1.7	0.5	12.2	16.6	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	3.8	1.0	2.7	0.0	12.3	1.5	9.2	1.6	2.8	20.7	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.7	25.5	23.3	33.0	0.0	36.9	63.4	29.1	21.9	64.8	48.4	19.0
LnGrp LOS	D	C	C	C	A	D	E	C	C	E	D	B
Approach Vol, veh/h		341			616			1471			2286	
Approach Delay, s/veh		31.3			36.1			29.8			48.2	
Approach LOS		C			D			C			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.5	53.3		48.7	9.0	56.8		48.7				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 47		46.2	7.4	49.5		46.2				
Max Q Clear Time (g_c+I1), s	8.3	26.9		42.2	5.5	51.2		31.4				
Green Ext Time (p_c), s	0.0	8.7		0.6	0.0	0.0		3.1				

Intersection Summary			
HCM 6th Ctrl Delay		39.7	
HCM 6th LOS		D	

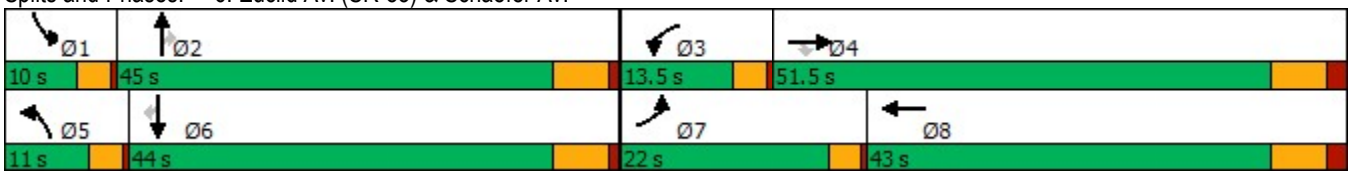
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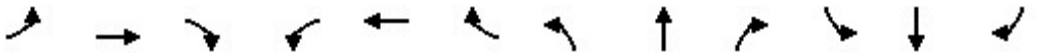
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	238	83	105	4	25	118	1209	34	82	1985	171
Future Volume (vph)	238	83	105	4	25	118	1209	34	82	1985	171
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	22.0	51.5	51.5	13.5	43.0	11.0	45.0	45.0	10.0	44.0	44.0
Total Split (%)	18.3%	42.9%	42.9%	11.3%	35.8%	9.2%	37.5%	37.5%	8.3%	36.7%	36.7%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	19.0	25.4	25.4	10.3	10.6	7.1	42.1	42.1	6.2	39.1	39.1
Actuated g/C Ratio	0.21	0.28	0.28	0.11	0.12	0.08	0.46	0.46	0.07	0.43	0.43
v/c Ratio	0.73	0.17	0.21	0.02	0.19	0.50	0.55	0.04	0.40	0.98	0.24
Control Delay	50.8	24.8	5.9	44.5	27.0	51.5	22.2	0.1	50.9	42.3	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	50.8	24.8	5.9	44.5	27.0	51.5	22.2	0.1	50.9	42.3	8.4
LOS	D	C	A	D	C	D	C	A	D	D	A
Approach Delay		34.7			28.6		24.2			40.1	
Approach LOS		C			C		C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 90.6	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.98	
Intersection Signal Delay: 34.1	Intersection LOS: C
Intersection Capacity Utilization 80.2%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	238	83	105	4	25	14	118	1209	34	82	1985	171
Future Volume (veh/h)	238	83	105	4	25	14	118	1209	34	82	1985	171
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	248	86	72	4	26	12	123	1259	35	85	2068	141
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	283	405	343	17	71	33	187	2295	712	164	2260	702
Arrive On Green	0.17	0.22	0.22	0.01	0.06	0.06	0.06	0.47	0.47	0.05	0.46	0.46
Sat Flow, veh/h	1619	1800	1525	1619	1165	538	3141	4914	1525	3141	4914	1525
Grp Volume(v), veh/h	248	86	72	4	0	38	123	1259	35	85	2068	141
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1703	1570	1638	1525	1570	1638	1525
Q Serve(g_s), s	12.2	3.2	3.1	0.2	0.0	1.7	3.1	15.0	1.0	2.2	32.0	4.5
Cycle Q Clear(g_c), s	12.2	3.2	3.1	0.2	0.0	1.7	3.1	15.0	1.0	2.2	32.0	4.5
Prop In Lane	1.00		1.00	1.00		0.32	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	283	405	343	17	0	103	187	2295	712	164	2260	702
V/C Ratio(X)	0.88	0.21	0.21	0.23	0.00	0.37	0.66	0.55	0.05	0.52	0.92	0.20
Avail Cap(c_a), veh/h	367	982	832	198	0	752	289	2349	729	250	2289	711
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	32.8	25.7	25.7	40.0	0.0	36.8	37.6	15.6	11.9	37.6	20.5	13.1
Incr Delay (d2), s/veh	14.4	0.2	0.2	2.5	0.0	1.6	1.5	0.3	0.0	0.9	6.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.6	1.3	1.1	0.1	0.0	0.7	1.1	4.6	0.3	0.8	11.1	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	47.2	25.9	25.9	42.6	0.0	38.4	39.0	15.8	11.9	38.6	26.8	13.2
LnGrp LOS	D	C	C	D	A	D	D	B	B	D	C	B
Approach Vol, veh/h		406			42			1417			2294	
Approach Delay, s/veh		38.9			38.8			17.8			26.4	
Approach LOS		D			D			B			C	

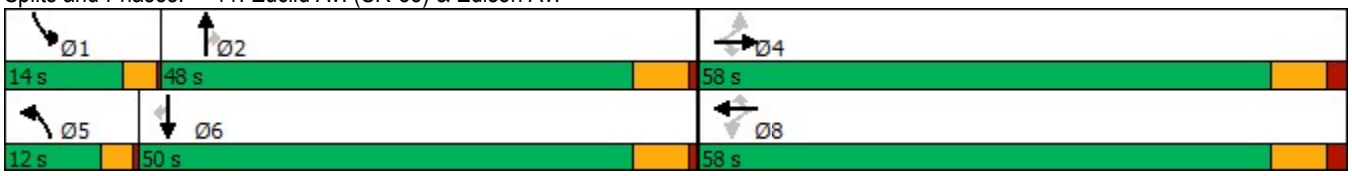
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	7.8	44.1	4.4	25.3	8.3	43.5	17.8	11.9
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	6.5	39.0	10.0	44.5	7.5	38.0	18.5	36.0
Max Q Clear Time (g_c+I1), s	4.2	17.0	2.2	5.2	5.1	34.0	14.2	3.7
Green Ext Time (p_c), s	0.0	8.3	0.0	0.5	0.0	3.5	0.1	0.1

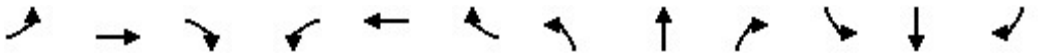
Intersection Summary	
HCM 6th Ctrl Delay	24.8
HCM 6th LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	227	417	200	108	511	168	163	1030	51	242	1528	253
Future Volume (vph)	227	417	200	108	511	168	163	1030	51	242	1528	253
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	58.0	58.0	58.0	58.0	58.0	58.0	12.0	48.0	48.0	14.0	50.0	50.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	48.3%	10.0%	40.0%	40.0%	11.7%	41.7%	41.7%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag							Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?							Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	51.0	51.0	51.0	51.0	51.0	51.0	8.3	40.9	40.9	10.5	43.1	43.1
Actuated g/C Ratio	0.43	0.43	0.43	0.43	0.43	0.43	0.07	0.34	0.34	0.09	0.36	0.36
v/c Ratio	1.17	0.56	0.27	0.41	0.68	0.23	0.77	0.63	0.09	1.75	0.88	0.39
Control Delay	150.6	29.2	5.1	29.9	33.2	3.9	77.6	34.6	4.5	397.7	42.7	10.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	150.6	29.2	5.1	29.9	33.2	3.9	77.6	34.6	4.5	397.7	42.7	10.1
LOS	F	C	A	C	C	A	E	C	A	F	D	B
Approach Delay		56.2			26.5			39.0			81.0	
Approach LOS		E			C			D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.75	
Intersection Signal Delay: 57.3	Intersection LOS: E
Intersection Capacity Utilization 99.4%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	227	417	200	108	511	168	163	1030	51	242	1528	253
Future Volume (veh/h)	227	417	200	108	511	168	163	1030	51	242	1528	253
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	234	430	170	111	527	163	168	1062	46	249	1575	226
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	196	778	658	250	778	658	218	1668	516	144	1764	547
Arrive On Green	0.43	0.43	0.43	0.43	0.43	0.43	0.07	0.34	0.34	0.09	0.36	0.36
Sat Flow, veh/h	684	1800	1524	744	1800	1522	3141	4914	1521	1619	4914	1524
Grp Volume(v), veh/h	234	430	170	111	527	163	168	1062	46	249	1575	226
Grp Sat Flow(s),veh/h/ln	684	1800	1524	744	1800	1522	1570	1638	1521	1619	1638	1524
Q Serve(g_s), s	23.2	21.0	8.4	15.4	27.8	8.0	6.2	21.5	2.4	10.5	35.7	13.2
Cycle Q Clear(g_c), s	51.0	21.0	8.4	36.5	27.8	8.0	6.2	21.5	2.4	10.5	35.7	13.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	196	778	658	250	778	658	218	1668	516	144	1764	547
V/C Ratio(X)	1.20	0.55	0.26	0.44	0.68	0.25	0.77	0.64	0.09	1.73	0.89	0.41
Avail Cap(c_a), veh/h	196	778	658	250	778	658	226	1748	541	144	1831	568
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.0	25.0	21.4	38.6	26.9	21.3	54.0	32.9	26.6	53.8	35.7	28.5
Incr Delay (d2), s/veh	127.1	0.9	0.2	1.2	2.4	0.2	13.1	0.7	0.1	355.5	5.9	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.6	8.7	2.9	2.8	11.7	2.8	2.7	8.1	0.8	18.3	14.1	4.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	178.2	25.9	21.6	39.9	29.3	21.5	67.1	33.6	26.6	409.3	41.6	29.0
LnGrp LOS	F	C	C	D	C	C	E	C	C	F	D	C
Approach Vol, veh/h		834			801			1276			2050	
Approach Delay, s/veh		67.7			29.2			37.8			84.9	
Approach LOS		E			C			D			F	

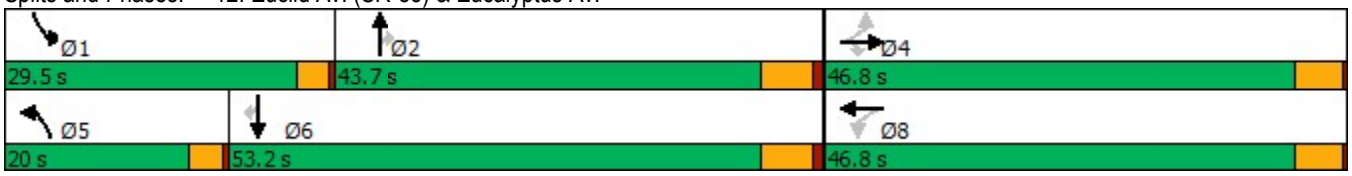
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.0	46.1		58.0	11.7	48.4		58.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	10.5	42.0		51.0	8.5	44.0		51.0				
Max Q Clear Time (g_c+I1), s	12.5	23.5		53.0	8.2	37.7		38.5				
Green Ext Time (p_c), s	0.0	6.4		0.0	0.0	4.7		3.6				

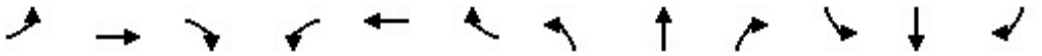
Intersection Summary												
HCM 6th Ctrl Delay			60.9									
HCM 6th LOS			E									

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	61	71	170	31	167	169	1104	17	262	1659	39
Future Volume (vph)	61	71	170	31	167	169	1104	17	262	1659	39
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	20.0	43.7	43.7	29.5	53.2	53.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	16.7%	36.4%	36.4%	24.6%	44.3%	44.3%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	21.8	21.8	21.8	21.8	21.8	15.0	36.9	36.9	21.2	43.1	43.1
Actuated g/C Ratio	0.23	0.23	0.23	0.23	0.23	0.16	0.39	0.39	0.22	0.46	0.46
v/c Ratio	0.49	0.18	0.37	0.12	0.70	0.71	0.62	0.03	0.78	0.80	0.06
Control Delay	45.9	30.8	6.6	30.1	40.0	57.4	26.8	0.1	52.6	26.7	5.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.9	30.8	6.6	30.1	40.0	57.4	26.8	0.1	52.6	26.7	5.4
LOS	D	C	A	C	D	E	C	A	D	C	A
Approach Delay		20.2			39.0		30.5			29.7	
Approach LOS		C			D		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 94.4	
Natural Cycle: 105	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.80	
Intersection Signal Delay: 29.9	Intersection LOS: C
Intersection Capacity Utilization 80.4%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	61	71	170	31	167	102	169	1104	17	262	1659	39
Future Volume (veh/h)	61	71	170	31	167	102	169	1104	17	262	1659	39
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	66	76	98	33	180	104	182	1187	16	282	1784	30
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	177	445	377	318	265	153	215	1946	604	318	2259	701
Arrive On Green	0.25	0.25	0.25	0.25	0.25	0.25	0.13	0.40	0.40	0.20	0.46	0.46
Sat Flow, veh/h	995	1800	1525	1100	1070	618	1619	4914	1525	1619	4914	1524
Grp Volume(v), veh/h	66	76	98	33	0	284	182	1187	16	282	1784	30
Grp Sat Flow(s),veh/h/ln	995	1800	1525	1100	0	1689	1619	1638	1525	1619	1638	1524
Q Serve(g_s), s	5.6	2.9	4.5	2.1	0.0	13.3	9.6	16.8	0.6	14.8	26.9	0.9
Cycle Q Clear(g_c), s	18.9	2.9	4.5	5.0	0.0	13.3	9.6	16.8	0.6	14.8	26.9	0.9
Prop In Lane	1.00		1.00	1.00		0.37	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	177	445	377	318	0	418	215	1946	604	318	2259	701
V/C Ratio(X)	0.37	0.17	0.26	0.10	0.00	0.68	0.85	0.61	0.03	0.89	0.79	0.04
Avail Cap(c_a), veh/h	409	865	733	575	0	811	306	2136	663	482	2670	828
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.3	25.9	26.5	27.8	0.0	29.8	37.0	21.0	16.1	34.2	20.0	13.0
Incr Delay (d2), s/veh	1.0	0.1	0.3	0.1	0.0	1.5	12.6	0.4	0.0	11.0	1.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	1.2	1.6	0.5	0.0	5.2	4.2	5.6	0.2	6.3	8.8	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	39.3	26.0	26.7	27.9	0.0	31.2	49.6	21.5	16.1	45.2	21.4	13.0
LnGrp LOS	D	C	C	C	A	C	D	C	B	D	C	B
Approach Vol, veh/h		240			317			1385			2096	
Approach Delay, s/veh		29.9			30.9			25.1			24.5	
Approach LOS		C			C			C			C	

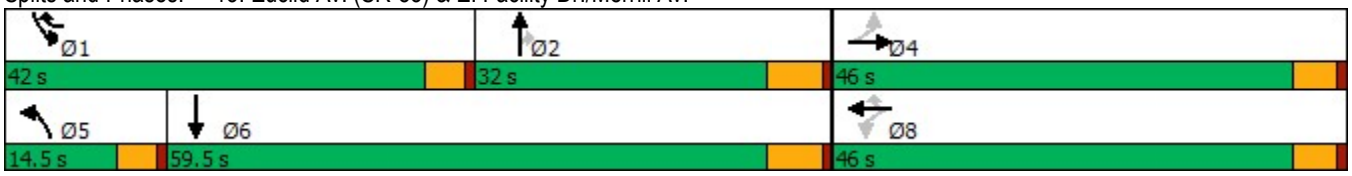
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	20.7	40.3		26.4	15.1	45.9		26.4				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	26.0	38.0		42.0	16.5	47.5		42.0				
Max Q Clear Time (g_c+I1), s	16.8	18.8		20.9	11.6	28.9		15.3				
Green Ext Time (p_c), s	0.4	7.3		0.7	0.1	11.3		1.3				

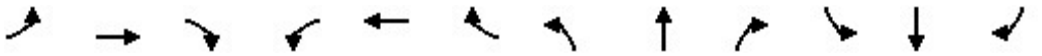
Intersection Summary												
HCM 6th Ctrl Delay			25.5									
HCM 6th LOS			C									

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	7	5	368	55	270	13	1018	572	587	1172
Future Volume (vph)	7	5	368	55	270	13	1018	572	587	1172
Turn Type	Perm	NA	Perm	NA	pm+ov	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	1	5	2		1	6
Permitted Phases	4		8		8			2		
Detector Phase	4	4	8	8	1	5	2	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	14.5	28.0	28.0	14.5	28.0
Total Split (s)	46.0	46.0	46.0	46.0	42.0	14.5	32.0	32.0	42.0	59.5
Total Split (%)	38.3%	38.3%	38.3%	38.3%	35.0%	12.1%	26.7%	26.7%	35.0%	49.6%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0	5.0	5.0	4.5	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		37.9	37.9	37.9	80.5	10.0	26.1	26.1	37.6	62.5
Actuated g/C Ratio		0.32	0.32	0.32	0.69	0.09	0.22	0.22	0.32	0.53
v/c Ratio		0.03	0.95	0.10	0.27	0.10	0.90	1.09	1.20	0.46
Control Delay		22.0	73.0	27.7	6.9	52.8	55.9	87.6	145.8	18.9
Queue Delay		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		22.0	73.0	27.7	6.9	52.8	55.9	87.6	145.8	18.9
LOS		C	E	C	A	D	E	F	F	B
Approach Delay		22.0		43.7			67.2			59.8
Approach LOS		C		D			E			E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 117.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.20	
Intersection Signal Delay: 59.8	Intersection LOS: E
Intersection Capacity Utilization 99.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	7	5	4	368	55	270	13	1018	572	587	1172	61
Future Volume (veh/h)	7	5	4	368	55	270	13	1018	572	587	1172	61
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	7	5	2	391	59	149	14	1083	311	624	1247	33
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	246	168	61	474	567	979	51	1207	341	528	2715	72
Arrive On Green	0.32	0.32	0.32	0.32	0.32	0.32	0.03	0.22	0.22	0.33	0.52	0.52
Sat Flow, veh/h	630	533	194	1280	1800	1525	1619	5400	1525	1619	5237	139
Grp Volume(v), veh/h	14	0	0	391	59	149	14	1083	311	624	857	423
Grp Sat Flow(s),veh/h/ln	1358	0	0	1280	1800	1525	1619	1800	1525	1619	1800	1775
Q Serve(g_s), s	0.0	0.0	0.0	30.9	2.7	4.5	1.0	22.4	22.8	37.5	17.3	17.3
Cycle Q Clear(g_c), s	2.7	0.0	0.0	33.6	2.7	4.5	1.0	22.4	22.8	37.5	17.3	17.3
Prop In Lane	0.50		0.14	1.00		1.00	1.00		1.00	1.00		0.08
Lane Grp Cap(c), veh/h	475	0	0	474	567	979	51	1207	341	528	1867	920
V/C Ratio(X)	0.03	0.00	0.00	0.82	0.10	0.15	0.28	0.90	0.91	1.18	0.46	0.46
Avail Cap(c_a), veh/h	532	0	0	527	642	1042	141	1222	345	528	1867	920
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	27.2	0.0	0.0	38.1	27.8	8.2	54.4	43.3	43.5	38.7	17.5	17.5
Incr Delay (d2), s/veh	0.0	0.0	0.0	8.5	0.0	0.0	1.1	9.0	27.4	99.5	0.2	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.0	11.2	1.1	1.3	0.4	10.4	10.7	28.3	6.5	6.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.2	0.0	0.0	46.6	27.9	8.2	55.4	52.3	70.9	138.2	17.7	17.8
LnGrp LOS	C	A	A	D	C	A	E	D	E	F	B	B
Approach Vol, veh/h		14			599			1408			1904	
Approach Delay, s/veh		27.2			35.2			56.4			57.2	
Approach LOS		C			D			E			E	

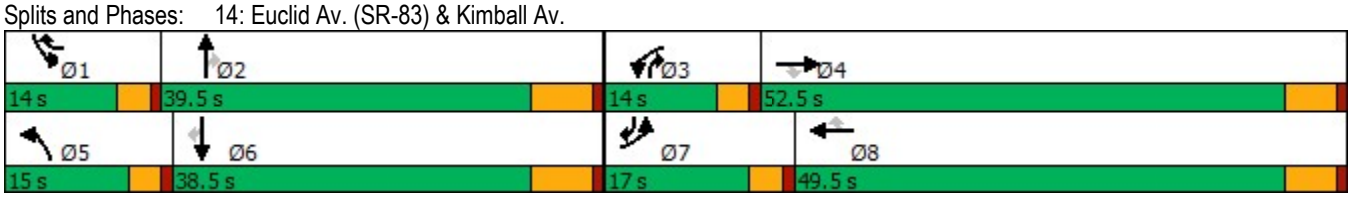
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	42.0	31.7		41.2	8.1	65.6		41.2				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	37.5	26.0		41.0	10.0	53.5		41.0				
Max Q Clear Time (g_c+I1), s	39.5	24.8		4.7	3.0	19.3		35.6				
Green Ext Time (p_c), s	0.0	0.8		0.0	0.0	8.9		0.6				

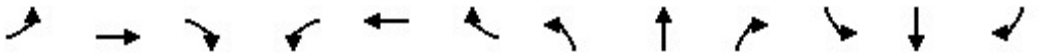
Intersection Summary			
HCM 6th Ctrl Delay		53.5	
HCM 6th LOS		D	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	169	317	61	113	1077	340	82	1104	67	198	880	424
Future Volume (vph)	169	317	61	113	1077	340	82	1104	67	198	880	424
Turn Type	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8	1	5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	1	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	9.0	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	17.0	52.5	52.5	14.0	49.5	14.0	15.0	39.5	14.0	14.0	38.5	17.0
Total Split (%)	14.2%	43.8%	43.8%	11.7%	41.3%	11.7%	12.5%	32.9%	11.7%	11.7%	32.1%	14.2%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	3.0	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	4.0	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	11.4	41.7	41.7	10.1	40.3	55.9	10.6	31.7	48.4	9.8	34.2	48.2
Actuated g/C Ratio	0.10	0.37	0.37	0.09	0.35	0.49	0.09	0.28	0.43	0.09	0.30	0.42
v/c Ratio	0.59	0.26	0.10	0.42	0.92	0.45	0.57	0.83	0.10	0.81	0.61	0.64
Control Delay	58.7	25.8	1.3	56.0	47.9	17.1	67.0	45.1	5.5	76.1	38.0	25.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.7	25.8	1.3	56.0	47.9	17.1	67.0	45.1	5.5	76.1	38.0	25.6
LOS	E	C	A	E	D	B	E	D	A	E	D	C
Approach Delay		33.2			41.6			44.5			39.5	
Approach LOS		C			D			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 113.7	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.92	
Intersection Signal Delay: 40.7	Intersection LOS: D
Intersection Capacity Utilization 85.9%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	169	317	61	113	1077	340	82	1104	67	198	880	424
Future Volume (veh/h)	169	317	61	113	1077	340	82	1104	67	198	880	424
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	174	327	53	116	1110	173	85	1138	55	204	907	386
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	269	1231	549	279	1224	677	137	1372	561	254	1379	562
Arrive On Green	0.09	0.36	0.36	0.09	0.36	0.36	0.08	0.28	0.28	0.09	0.28	0.28
Sat Flow, veh/h	2956	3420	1525	3141	3420	1525	1619	4914	1525	2956	4914	1506
Grp Volume(v), veh/h	174	327	53	116	1110	173	85	1138	55	204	907	386
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1570	1710	1525	1619	1638	1525	1478	1638	1506
Q Serve(g_s), s	6.2	7.4	2.5	3.8	33.7	7.8	5.5	23.7	2.6	7.4	17.8	23.7
Cycle Q Clear(g_c), s	6.2	7.4	2.5	3.8	33.7	7.8	5.5	23.7	2.6	7.4	17.8	23.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	269	1231	549	279	1224	677	137	1372	561	254	1379	562
V/C Ratio(X)	0.65	0.27	0.10	0.42	0.91	0.26	0.62	0.83	0.10	0.80	0.66	0.69
Avail Cap(c_a), veh/h	352	1462	652	288	1368	742	163	1485	596	271	1440	580
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.9	24.7	23.2	47.1	33.3	19.0	48.3	36.9	22.6	49.0	34.7	29.0
Incr Delay (d2), s/veh	1.0	0.1	0.1	0.4	7.9	0.1	2.5	4.1	0.1	13.6	1.2	3.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	2.9	0.9	1.5	14.4	2.6	2.2	9.3	0.9	3.1	6.8	8.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	48.9	24.8	23.2	47.4	41.2	19.1	50.8	41.0	22.7	62.6	35.9	32.7
LnGrp LOS	D	C	C	D	D	B	D	D	C	E	D	C
Approach Vol, veh/h		554			1399			1278			1497	
Approach Delay, s/veh		32.2			39.0			40.9			38.7	
Approach LOS		C			D			D			D	

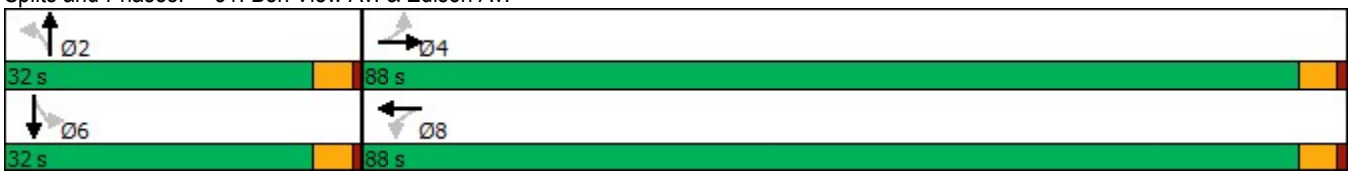
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.4	37.0	13.7	45.1	13.2	37.1	13.9	44.9
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	10.0	33.0	10.0	46.7	11.0	32.0	13.0	43.7
Max Q Clear Time (g_c+I1), s	9.4	25.7	5.8	9.4	7.5	25.7	8.2	35.7
Green Ext Time (p_c), s	0.0	4.8	0.1	2.2	0.0	4.3	0.1	3.4

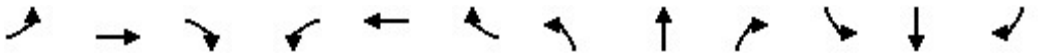
Intersection Summary	
HCM 6th Ctrl Delay	38.6
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	41	689	7	676	12	188	11	133
Future Volume (vph)	41	689	7	676	12	188	11	133
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	88.0	88.0	88.0	88.0	32.0	32.0	32.0	32.0
Total Split (%)	73.3%	73.3%	73.3%	73.3%	26.7%	26.7%	26.7%	26.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		44.5		44.5		16.1		16.1
Actuated g/C Ratio		0.63		0.63		0.23		0.23
v/c Ratio		0.81		0.73		0.59		0.52
Control Delay		17.0		13.2		34.6		31.9
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		17.0		13.2		34.6		31.9
LOS		B		B		C		C
Approach Delay		17.0		13.2		34.6		31.9
Approach LOS		B		B		C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 70.8	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.81	
Intersection Signal Delay: 19.0	Intersection LOS: B
Intersection Capacity Utilization 85.0%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	41	689	17	7	676	33	12	188	6	11	133	38
Future Volume (veh/h)	41	689	17	7	676	33	12	188	6	11	133	38
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	49	830	20	8	814	40	14	227	7	13	160	46
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	117	1039	24	85	1076	52	95	342	10	96	268	74
Arrive On Green	0.60	0.60	0.60	0.60	0.60	0.60	0.19	0.19	0.19	0.19	0.19	0.19
Sat Flow, veh/h	51	1722	40	4	1785	87	50	1762	53	50	1383	381
Grp Volume(v), veh/h	899	0	0	862	0	0	248	0	0	219	0	0
Grp Sat Flow(s),veh/h/ln	1814	0	0	1876	0	0	1864	0	0	1814	0	0
Q Serve(g_s), s	1.3	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	16.2	0.0	0.0	14.8	0.0	0.0	5.4	0.0	0.0	4.8	0.0	0.0
Prop In Lane	0.05		0.02	0.01		0.05	0.06		0.03	0.06		0.21
Lane Grp Cap(c), veh/h	1180	0	0	1213	0	0	447	0	0	438	0	0
V/C Ratio(X)	0.76	0.00	0.00	0.71	0.00	0.00	0.55	0.00	0.00	0.50	0.00	0.00
Avail Cap(c_a), veh/h	3377	0	0	3585	0	0	1228	0	0	1191	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	6.7	0.0	0.0	6.4	0.0	0.0	16.6	0.0	0.0	16.4	0.0	0.0
Incr Delay (d2), s/veh	1.0	0.0	0.0	0.8	0.0	0.0	1.1	0.0	0.0	0.9	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	0.0	0.0	2.3	0.0	0.0	1.9	0.0	0.0	1.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	7.7	0.0	0.0	7.2	0.0	0.0	17.7	0.0	0.0	17.2	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		899			862			248			219	
Approach Delay, s/veh		7.7			7.2			17.7			17.2	
Approach LOS		A			A			B			B	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		13.1		31.2		13.1		31.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		27.5		83.5		27.5		83.5				
Max Q Clear Time (g_c+I1), s		7.4		18.2		6.8		16.8				
Green Ext Time (p_c), s		1.2		8.6		1.1		7.4				

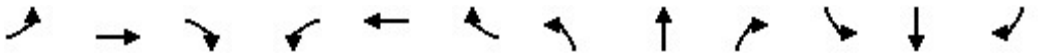
Intersection Summary												
HCM 6th Ctrl Delay			9.6									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	44	100	33	283	43	401	34	469
Future Volume (vph)	44	100	33	283	43	401	34	469
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	49.0	49.0	49.0	49.0	71.0	71.0	71.0	71.0
Total Split (%)	40.8%	40.8%	40.8%	40.8%	59.2%	59.2%	59.2%	59.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		18.6		18.6		25.8		25.8
Actuated g/C Ratio		0.34		0.34		0.48		0.48
v/c Ratio		0.33		0.63		0.57		0.69
Control Delay		16.1		21.3		13.9		16.3
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		16.1		21.3		13.9		16.3
LOS		B		C		B		B
Approach Delay		16.1		21.3		13.9		16.3
Approach LOS		B		C		B		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 54.3	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.69	
Intersection Signal Delay: 16.7	Intersection LOS: B
Intersection Capacity Utilization 65.8%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 32: Grove Av. & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	44	100	34	33	283	58	43	401	10	34	469	63
Future Volume (veh/h)	44	100	34	33	283	58	43	401	10	34	469	63
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	46	104	35	34	295	60	45	418	10	35	489	66
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	203	357	101	137	447	86	151	735	17	131	679	88
Arrive On Green	0.31	0.31	0.31	0.31	0.31	0.31	0.44	0.44	0.44	0.44	0.44	0.44
Sat Flow, veh/h	241	1157	326	83	1447	279	89	1690	38	51	1561	203
Grp Volume(v), veh/h	185	0	0	389	0	0	473	0	0	590	0	0
Grp Sat Flow(s),veh/h/ln	1725	0	0	1809	0	0	1818	0	0	1815	0	0
Q Serve(g_s), s	0.0	0.0	0.0	1.5	0.0	0.0	0.0	0.0	0.0	1.4	0.0	0.0
Cycle Q Clear(g_c), s	2.7	0.0	0.0	6.5	0.0	0.0	6.6	0.0	0.0	9.3	0.0	0.0
Prop In Lane	0.25		0.19	0.09		0.15	0.10		0.02	0.06		0.11
Lane Grp Cap(c), veh/h	660	0	0	670	0	0	903	0	0	898	0	0
V/C Ratio(X)	0.28	0.00	0.00	0.58	0.00	0.00	0.52	0.00	0.00	0.66	0.00	0.00
Avail Cap(c_a), veh/h	2130	0	0	2369	0	0	3383	0	0	3472	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	9.3	0.0	0.0	10.6	0.0	0.0	7.5	0.0	0.0	8.2	0.0	0.0
Incr Delay (d2), s/veh	0.2	0.0	0.0	0.8	0.0	0.0	0.5	0.0	0.0	0.8	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	0.0	0.0	1.7	0.0	0.0	1.2	0.0	0.0	1.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	9.6	0.0	0.0	11.4	0.0	0.0	7.9	0.0	0.0	9.0	0.0	0.0
LnGrp LOS	A	A	A	B	A	A	A	A	A	A	A	A
Approach Vol, veh/h		185			389			473			590	
Approach Delay, s/veh		9.6			11.4			7.9			9.0	
Approach LOS		A			B			A			A	

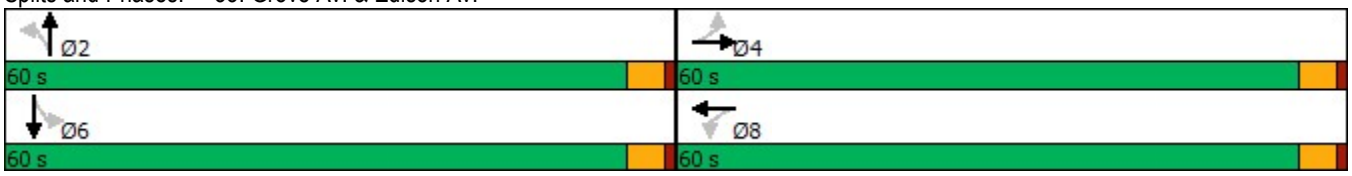
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		19.8		15.3		19.8		15.3				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		66.5		44.5		66.5		44.5				
Max Q Clear Time (g_c+I1), s		8.6		4.7		11.3		8.5				
Green Ext Time (p_c), s		3.0		1.1		4.0		2.3				

Intersection Summary												
HCM 6th Ctrl Delay			9.3									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	60	271	79	512	156	309	44	471
Future Volume (vph)	60	271	79	512	156	309	44	471
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	60.0	60.0	60.0	60.0	60.0	60.0	60.0	60.0
Total Split (%)	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%	50.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	48.3	48.3	48.3	48.3	28.1	28.1	28.1	28.1
Actuated g/C Ratio	0.56	0.56	0.56	0.56	0.33	0.33	0.33	0.33
v/c Ratio	0.22	0.76	0.39	0.62	0.87	0.32	0.17	0.49
Control Delay	15.6	21.4	21.4	18.4	68.0	22.2	22.9	24.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	15.6	21.4	21.4	18.4	68.0	22.2	22.9	24.4
LOS	B	C	C	B	E	C	C	C
Approach Delay		20.9		18.8		36.9		24.3
Approach LOS		C		B		D		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 86.2	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.87	
Intersection Signal Delay: 24.3	Intersection LOS: C
Intersection Capacity Utilization 86.0%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	271	406	79	512	65	156	309	20	44	471	42
Future Volume (veh/h)	60	271	406	79	512	65	156	309	20	44	471	42
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	64	288	432	84	545	69	166	329	21	47	501	45
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	286	348	522	186	839	106	272	1210	77	356	1176	105
Arrive On Green	0.54	0.54	0.54	0.54	0.54	0.54	0.37	0.37	0.37	0.37	0.37	0.37
Sat Flow, veh/h	735	650	975	666	1566	198	782	3265	207	937	3175	284
Grp Volume(v), veh/h	64	0	720	84	0	614	166	172	178	47	269	277
Grp Sat Flow(s),veh/h/ln	735	0	1625	666	0	1764	782	1710	1763	937	1710	1749
Q Serve(g_s), s	6.5	0.0	35.4	11.6	0.0	23.8	19.3	6.7	6.8	3.5	11.3	11.4
Cycle Q Clear(g_c), s	30.3	0.0	35.4	47.0	0.0	23.8	30.7	6.7	6.8	10.3	11.3	11.4
Prop In Lane	1.00		0.60	1.00		0.11	1.00		0.12	1.00		0.16
Lane Grp Cap(c), veh/h	286	0	870	186	0	945	272	634	653	356	634	648
V/C Ratio(X)	0.22	0.00	0.83	0.45	0.00	0.65	0.61	0.27	0.27	0.13	0.42	0.43
Avail Cap(c_a), veh/h	318	0	940	214	0	1021	435	990	1020	551	990	1012
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.6	0.0	18.6	38.2	0.0	15.9	34.0	21.1	21.1	24.8	22.5	22.6
Incr Delay (d2), s/veh	0.4	0.0	5.8	1.7	0.0	1.3	2.2	0.2	0.2	0.2	0.5	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	0.0	12.8	1.9	0.0	8.7	3.6	2.5	2.6	0.8	4.2	4.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.0	0.0	24.4	39.9	0.0	17.2	36.2	21.3	21.4	24.9	23.0	23.0
LnGrp LOS	C	A	C	D	A	B	D	C	C	C	C	C
Approach Vol, veh/h		784			698			516			593	
Approach Delay, s/veh		24.6			19.9			26.1			23.2	
Approach LOS		C			B			C			C	

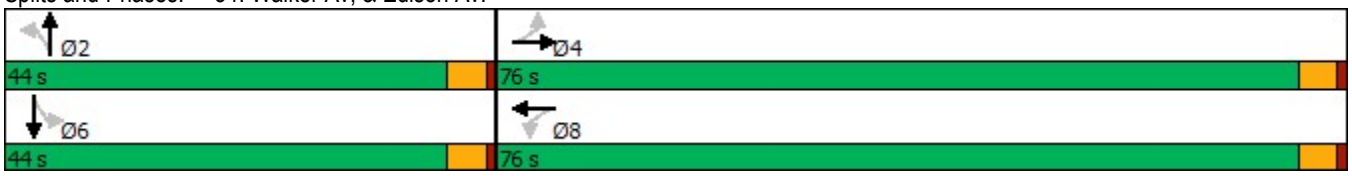
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		40.0		55.9		40.0		55.9				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		55.5		55.5		55.5		55.5				
Max Q Clear Time (g_c+I1), s		32.7		37.4		13.4		49.0				
Green Ext Time (p_c), s		2.9		5.2		3.3		2.4				

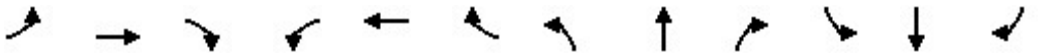
Intersection Summary												
HCM 6th Ctrl Delay			23.3									
HCM 6th LOS			C									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	33	483	259	621	34	158	186	249
Future Volume (vph)	33	483	259	621	34	158	186	249
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	76.0	76.0	76.0	76.0	44.0	44.0	44.0	44.0
Total Split (%)	63.3%	63.3%	63.3%	63.3%	36.7%	36.7%	36.7%	36.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	33.1	33.1	33.1	33.1	21.5	21.5	21.5	21.5
Actuated g/C Ratio	0.51	0.51	0.51	0.51	0.33	0.33	0.33	0.33
v/c Ratio	0.11	0.31	0.66	0.42	0.12	0.44	0.60	0.49
Control Delay	10.8	9.6	22.1	10.3	20.6	20.0	30.3	22.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	10.8	9.6	22.1	10.3	20.6	20.0	30.3	22.3
LOS	B	A	C	B	C	C	C	C
Approach Delay		9.7		13.3		20.1		25.4
Approach LOS		A		B		C		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 65.3	
Natural Cycle: 50	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.66	
Intersection Signal Delay: 15.7	Intersection LOS: B
Intersection Capacity Utilization 69.6%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 34: Walker Av, & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	33	483	77	259	621	143	34	158	96	186	249	43
Future Volume (veh/h)	33	483	77	259	621	143	34	158	96	186	249	43
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	34	503	80	270	647	149	35	165	100	194	259	45
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	377	1647	261	472	1538	354	348	380	230	372	541	94
Arrive On Green	0.51	0.51	0.51	0.51	0.51	0.51	0.34	0.34	0.34	0.34	0.34	0.34
Sat Flow, veh/h	693	3202	507	845	2989	687	1092	1108	671	1132	1577	274
Grp Volume(v), veh/h	34	298	285	270	411	385	35	0	265	194	0	304
Grp Sat Flow(s),veh/h/ln	693	1900	1809	845	1900	1776	1092	0	1779	1132	0	1851
Q Serve(g_s), s	2.0	5.7	5.7	17.1	8.5	8.5	1.6	0.0	7.3	10.1	0.0	8.1
Cycle Q Clear(g_c), s	10.5	5.7	5.7	22.8	8.5	8.5	9.8	0.0	7.3	17.3	0.0	8.1
Prop In Lane	1.00		0.28	1.00		0.39	1.00		0.38	1.00		0.15
Lane Grp Cap(c), veh/h	377	977	931	472	977	914	348	0	610	372	0	635
V/C Ratio(X)	0.09	0.30	0.31	0.57	0.42	0.42	0.10	0.00	0.43	0.52	0.00	0.48
Avail Cap(c_a), veh/h	806	2153	2049	995	2153	2013	657	0	1114	692	0	1158
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.8	8.8	8.8	15.4	9.5	9.5	20.1	0.0	16.0	22.7	0.0	16.3
Incr Delay (d2), s/veh	0.1	0.2	0.2	1.1	0.3	0.3	0.1	0.0	0.5	1.1	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	1.8	1.7	2.7	2.7	2.5	0.4	0.0	2.6	2.5	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	12.9	9.0	9.0	16.5	9.8	9.8	20.3	0.0	16.5	23.8	0.0	16.9
LnGrp LOS	B	A	A	B	A	A	C	A	B	C	A	B
Approach Vol, veh/h		617			1066			300			498	
Approach Delay, s/veh		9.2			11.5			16.9			19.6	
Approach LOS		A			B			B			B	

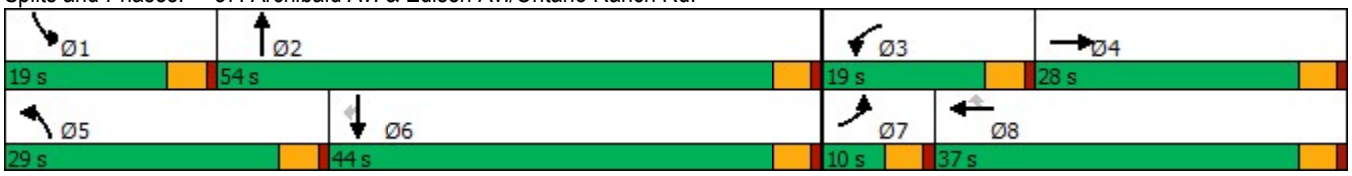
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		26.1		37.0		26.1		37.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		39.5		71.5		39.5		71.5				
Max Q Clear Time (g_c+I1), s		11.8		12.5		19.3		24.8				
Green Ext Time (p_c), s		1.6		3.8		2.3		7.6				

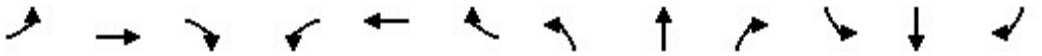
Intersection Summary												
HCM 6th Ctrl Delay			13.2									
HCM 6th LOS			B									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	91	292	75	549	852	117	190	1260	397	99	870	262
Future Volume (vph)	91	292	75	549	852	117	190	1260	397	99	870	262
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	44.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	36.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	5.5	23.7	103.2	14.6	32.8	32.8	12.3	35.1	103.2	11.7	34.4	34.4
Actuated g/C Ratio	0.05	0.23	1.00	0.14	0.32	0.32	0.12	0.34	1.00	0.11	0.33	0.33
v/c Ratio	0.61	0.39	0.05	1.40	0.86	0.23	0.56	0.76	0.29	0.60	0.80	0.46
Control Delay	66.9	37.0	0.1	229.0	44.1	5.8	49.9	33.1	0.5	59.1	36.8	12.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	66.9	37.0	0.1	229.0	44.1	5.8	49.9	33.1	0.5	59.1	36.8	12.8
LOS	E	D	A	F	D	A	D	C	A	E	D	B
Approach Delay		36.9			108.0			27.8			33.5	
Approach LOS		D			F			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 103.2	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.40	
Intersection Signal Delay: 54.1	Intersection LOS: D
Intersection Capacity Utilization 75.9%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	91	292	75	549	852	117	190	1260	397	99	870	262
Future Volume (veh/h)	91	292	75	549	852	117	190	1260	397	99	870	262
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	100	321	0	603	936	106	209	1385	0	109	956	277
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	153	749		482	1081	476	289	1912		135	1244	520
Arrive On Green	0.05	0.21	0.00	0.16	0.32	0.32	0.09	0.35	0.00	0.08	0.35	0.35
Sat Flow, veh/h	3048	3600	1525	3048	3420	1506	3141	5400	1525	1619	3600	1505
Grp Volume(v), veh/h	100	321	0	603	936	106	209	1385	0	109	956	277
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1710	1506	1570	1800	1525	1619	1800	1505
Q Serve(g_s), s	3.0	7.1	0.0	14.5	23.6	4.8	5.9	20.4	0.0	6.1	21.7	13.5
Cycle Q Clear(g_c), s	3.0	7.1	0.0	14.5	23.6	4.8	5.9	20.4	0.0	6.1	21.7	13.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	153	749		482	1081	476	289	1912		135	1244	520
V/C Ratio(X)	0.65	0.43		1.25	0.87	0.22	0.72	0.72		0.81	0.77	0.53
Avail Cap(c_a), veh/h	183	922		482	1212	534	839	2914		256	1550	648
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.8	31.6	0.0	38.6	29.6	23.1	40.5	25.7	0.0	41.3	26.8	24.1
Incr Delay (d2), s/veh	6.2	0.4	0.0	129.6	6.3	0.2	3.4	0.5	0.0	10.6	1.9	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	2.9	0.0	13.7	9.7	1.6	2.3	7.8	0.0	2.7	8.6	4.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.0	32.0	0.0	168.2	35.8	23.3	43.9	26.3	0.0	51.9	28.6	24.9
LnGrp LOS	D	C		F	D	C	D	C		D	C	C
Approach Vol, veh/h		421	A		1645			1594	A		1342	
Approach Delay, s/veh		36.0			83.5			28.6			29.8	
Approach LOS		D			F			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.2	37.0	19.0	23.6	13.0	36.2	9.1	33.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	8.1	22.4	16.5	9.1	7.9	23.7	5.0	25.6
Green Ext Time (p_c), s	0.1	10.0	0.0	1.5	0.6	6.1	0.0	3.3

Intersection Summary	
HCM 6th Ctrl Delay	47.6
HCM 6th LOS	D

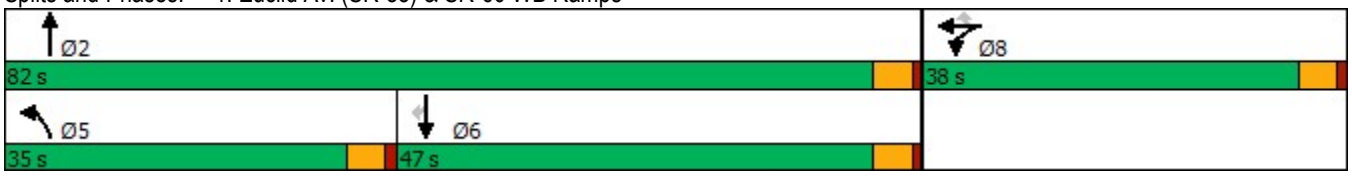
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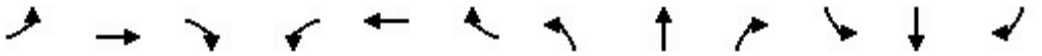
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	778	7	383	929	996	942	484
Future Volume (vph)	778	7	383	929	996	942	484
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	38.0	38.0	38.0	35.0	82.0	47.0	47.0
Total Split (%)	31.7%	31.7%	31.7%	29.2%	68.3%	39.2%	39.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	Min	Min	Min
Act Effct Green (s)	32.1	32.1	32.1	30.7	73.7	38.5	38.5
Actuated g/C Ratio	0.28	0.28	0.28	0.27	0.64	0.34	0.34
v/c Ratio	0.88	0.91	0.67	1.01	0.44	0.79	0.57
Control Delay	60.9	66.2	29.4	75.7	11.1	40.2	5.2
Queue Delay	0.0	0.0	0.0	0.0	0.6	0.0	0.0
Total Delay	60.9	66.2	29.4	75.7	11.7	40.2	5.2
LOS	E	E	C	E	B	D	A
Approach Delay		53.5			42.6	28.3	
Approach LOS		D			D	C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 114.8	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.01	
Intersection Signal Delay: 40.9	Intersection LOS: D
Intersection Capacity Utilization 93.3%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	778	7	383	929	996	0	0	942	484
Future Volume (veh/h)	0	0	0	778	7	383	929	996	0	0	942	484
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				872	0	164	948	1016	0	0	961	304
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				981	0	436	989	2331	0	0	1164	519
Arrive On Green				0.27	0.00	0.27	0.28	0.65	0.00	0.00	0.32	0.32
Sat Flow, veh/h				3619	0	1610	3510	3705	0	0	3705	1610
Grp Volume(v), veh/h				872	0	164	948	1016	0	0	961	304
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1755	1805	0	0	1805	1610
Q Serve(g_s), s				25.1	0.0	8.9	28.8	15.0	0.0	0.0	26.6	17.1
Cycle Q Clear(g_c), s				25.1	0.0	8.9	28.8	15.0	0.0	0.0	26.6	17.1
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				981	0	436	989	2331	0	0	1164	519
V/C Ratio(X)				0.89	0.00	0.38	0.96	0.44	0.00	0.00	0.83	0.59
Avail Cap(c_a), veh/h				1120	0	498	989	2584	0	0	1417	632
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				37.9	0.0	32.0	38.3	9.5	0.0	0.0	33.9	30.6
Incr Delay (d2), s/veh				8.2	0.0	0.5	19.3	0.1	0.0	0.0	3.5	1.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				11.7	0.0	3.4	14.5	5.2	0.0	0.0	11.7	6.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				46.1	0.0	32.6	57.6	9.6	0.0	0.0	37.3	31.7
LnGrp LOS				D	A	C	E	A	A	A	D	C
Approach Vol, veh/h					1036			1964			1265	
Approach Delay, s/veh					44.0			32.8			36.0	
Approach LOS					D			C			D	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	74.4		35.0	39.4		33.8						
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5						
Max Green Setting (Gmax), s	77.5		30.5	42.5		33.5						
Max Q Clear Time (g_c+I1), s	17.0		30.8	28.6		27.1						
Green Ext Time (p_c), s	8.7		0.0	6.3		2.3						

Intersection Summary		
HCM 6th Ctrl Delay	36.4	
HCM 6th LOS	D	

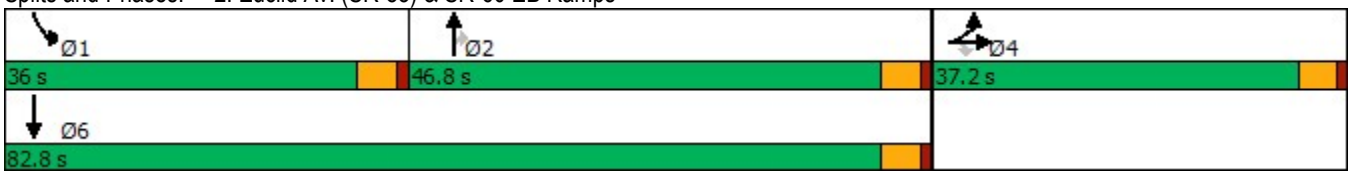
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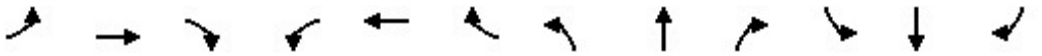
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Configurations							
Traffic Volume (vph)	305	6	551	1618	695	372	1348
Future Volume (vph)	305	6	551	1618	695	372	1348
Turn Type	Split	NA	Perm	NA	Perm	Prot	NA
Protected Phases	4	4		2		1	6
Permitted Phases			4		2		
Detector Phase	4	4	4	2	2	1	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lag	Lag	Lead	
Lead-Lag Optimize?				Yes	Yes	Yes	
Recall Mode	None	None	None	Min	Min	None	Min
Act Effct Green (s)	22.6	22.6	22.6	42.8	42.8	16.0	63.4
Actuated g/C Ratio	0.24	0.24	0.24	0.45	0.45	0.17	0.67
v/c Ratio	0.70	0.77	0.74	1.04	0.77	0.66	0.58
Control Delay	43.0	40.2	38.1	60.6	17.0	43.7	10.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.2
Total Delay	43.0	40.2	38.1	60.6	17.0	43.7	11.1
LOS	D	D	D	E	B	D	B
Approach Delay		40.4		47.5			18.1
Approach LOS		D		D			B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 95.1	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.04	
Intersection Signal Delay: 35.9	Intersection LOS: D
Intersection Capacity Utilization 93.3%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	305	6	551	0	0	0	0	1618	695	372	1348	0
Future Volume (veh/h)	305	6	551	0	0	0	0	1618	695	372	1348	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	214	0	615				0	1685	597	388	1404	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	424	0	755				0	1704	749	502	2402	0
Arrive On Green	0.23	0.00	0.23				0.00	0.47	0.47	0.14	0.67	0.00
Sat Flow, veh/h	1810	0	3220				0	3705	1586	3510	3705	0
Grp Volume(v), veh/h	214	0	615				0	1685	597	388	1404	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1586	1755	1805	0
Q Serve(g_s), s	9.2	0.0	16.2				0.0	41.4	28.6	9.5	19.1	0.0
Cycle Q Clear(g_c), s	9.2	0.0	16.2				0.0	41.4	28.6	9.5	19.1	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	424	0	755				0	1704	749	502	2402	0
V/C Ratio(X)	0.50	0.00	0.82				0.00	0.99	0.80	0.77	0.58	0.00
Avail Cap(c_a), veh/h	660	0	1175				0	1704	749	1234	3154	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	29.8	0.0	32.5				0.0	23.4	20.0	37.0	8.2	0.0
Incr Delay (d2), s/veh	0.9	0.0	2.6				0.0	19.1	6.1	2.6	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.0	6.2				0.0	20.0	10.6	4.1	5.8	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.7	0.0	35.0				0.0	42.5	26.1	39.6	8.4	0.0
LnGrp LOS	C	A	D				A	D	C	D	A	A
Approach Vol, veh/h		829						2282			1792	
Approach Delay, s/veh		33.9						38.2			15.2	
Approach LOS		C						D			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	17.3	46.8		25.5		64.1
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	11.5	43.4		18.2		21.1
Green Ext Time (p_c), s	1.3	0.0		2.8		14.8

Intersection Summary	
HCM 6th Ctrl Delay	29.1
HCM 6th LOS	C

Notes

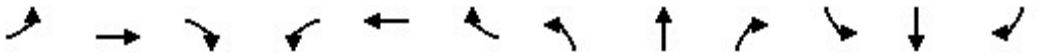
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	144	515	87	168	408	75	139	1850	114	1321	169
Future Volume (vph)	144	515	87	168	408	75	139	1850	114	1321	169
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	1	6	7
Permitted Phases			4			8					6
Detector Phase	7	4	4	3	8	8	5	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	25.8	9.6	31.8	31.8	9.6	30.4	9.6	34.5	9.6
Total Split (s)	16.7	30.0	30.0	18.5	31.8	31.8	19.0	56.9	14.6	52.5	16.7
Total Split (%)	13.9%	25.0%	25.0%	15.4%	26.5%	26.5%	15.8%	47.4%	12.2%	43.8%	13.9%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min	None
Act Effct Green (s)	11.9	21.9	21.9	13.6	23.6	23.6	12.9	51.6	9.8	47.4	65.8
Actuated g/C Ratio	0.10	0.19	0.19	0.12	0.20	0.20	0.11	0.44	0.08	0.40	0.56
v/c Ratio	0.89	0.82	0.23	0.90	0.60	0.19	0.80	0.96	0.86	0.67	0.19
Control Delay	99.2	57.0	4.9	97.3	46.5	3.3	81.4	44.6	101.0	31.4	4.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	99.2	57.0	4.9	97.3	46.5	3.3	81.4	44.6	101.0	31.4	4.7
LOS	F	E	A	F	D	A	F	D	F	C	A
Approach Delay		59.0			54.6			47.0		33.5	
Approach LOS		E			D			D		C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 117.3	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.96	
Intersection Signal Delay: 45.5	Intersection LOS: D
Intersection Capacity Utilization 91.6%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	144	515	87	168	408	75	139	1850	185	114	1321	169
Future Volume (veh/h)	144	515	87	168	408	75	139	1850	185	114	1321	169
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	145	520	57	170	412	37	140	1869	124	115	1334	72
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	168	607	271	194	660	289	164	2039	135	138	2048	794
Arrive On Green	0.10	0.18	0.18	0.12	0.19	0.19	0.10	0.43	0.43	0.09	0.42	0.42
Sat Flow, veh/h	1619	3420	1525	1619	3420	1497	1619	4708	311	1619	4914	1525
Grp Volume(v), veh/h	145	520	57	170	412	37	140	1299	694	115	1334	72
Grp Sat Flow(s),veh/h/ln	1619	1710	1525	1619	1710	1497	1619	1638	1744	1619	1638	1525
Q Serve(g_s), s	10.2	17.2	3.7	12.0	12.9	2.4	9.9	43.3	43.6	8.1	25.3	2.8
Cycle Q Clear(g_c), s	10.2	17.2	3.7	12.0	12.9	2.4	9.9	43.3	43.6	8.1	25.3	2.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.18	1.00		1.00
Lane Grp Cap(c), veh/h	168	607	271	194	660	289	164	1419	755	138	2048	794
V/C Ratio(X)	0.86	0.86	0.21	0.88	0.62	0.13	0.85	0.92	0.92	0.84	0.65	0.09
Avail Cap(c_a), veh/h	168	712	317	194	765	335	200	1451	772	139	2048	794
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.3	46.4	40.9	50.4	43.1	38.8	51.4	31.0	31.0	52.4	27.2	14.0
Incr Delay (d2), s/veh	32.4	9.0	0.4	32.7	1.2	0.2	21.3	9.2	15.9	31.6	0.7	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.6	7.8	1.4	6.5	5.4	0.9	4.8	17.2	19.9	4.5	9.6	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	83.7	55.4	41.3	83.0	44.3	39.0	72.7	40.2	46.9	84.0	27.9	14.1
LnGrp LOS	F	E	D	F	D	D	E	D	D	F	C	B
Approach Vol, veh/h		722			619			2133			1521	
Approach Delay, s/veh		60.0			54.6			44.5			31.5	
Approach LOS		E			D			D			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.5	56.9	18.5	26.4	16.4	55.0	16.7	28.2
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	10.0	* 52	13.9	24.2	14.4	46.0	12.1	26.0
Max Q Clear Time (g_c+I1), s	10.1	45.6	14.0	19.2	11.9	27.3	12.2	14.9
Green Ext Time (p_c), s	0.0	4.8	0.0	1.5	0.0	9.1	0.0	1.9

Intersection Summary	
HCM 6th Ctrl Delay	44.0
HCM 6th LOS	D

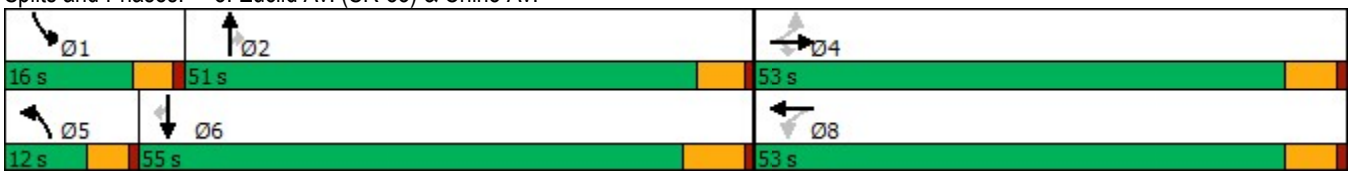
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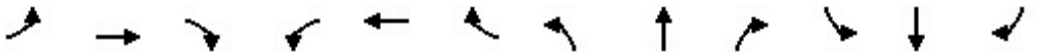
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	82	455	56	94	131	62	2056	221	96	1402	71
Future Volume (vph)	82	455	56	94	131	62	2056	221	96	1402	71
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	53.0	53.0	53.0	53.0	53.0	12.0	51.0	51.0	16.0	55.0	55.0
Total Split (%)	44.2%	44.2%	44.2%	44.2%	44.2%	10.0%	42.5%	42.5%	13.3%	45.8%	45.8%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8	5.8	5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	32.7	32.7	32.7	32.7	32.7	7.0	46.8	46.8	9.7	50.7	50.7
Actuated g/C Ratio	0.31	0.31	0.31	0.31	0.31	0.07	0.45	0.45	0.09	0.48	0.48
v/c Ratio	0.29	0.84	0.11	0.96	0.38	0.60	0.97	0.32	0.66	0.61	0.09
Control Delay	29.5	47.5	4.0	118.5	25.9	74.5	43.2	16.5	69.6	23.6	5.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	29.5	47.5	4.0	118.5	25.9	74.5	43.2	16.5	69.6	23.6	5.3
LOS	C	D	A	F	C	E	D	B	E	C	A
Approach Delay		40.8			55.5		41.5			25.6	
Approach LOS		D			E		D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 105	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 37.1	Intersection LOS: D
Intersection Capacity Utilization 99.3%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	82	455	56	94	131	70	62	2056	221	96	1402	71
Future Volume (veh/h)	82	455	56	94	131	70	62	2056	221	96	1402	71
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	85	469	38	97	135	66	64	2120	166	99	1445	41
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	366	658	558	180	418	204	80	2008	623	121	2133	662
Arrive On Green	0.37	0.37	0.37	0.37	0.37	0.37	0.05	0.41	0.41	0.07	0.43	0.43
Sat Flow, veh/h	1074	1800	1525	811	1141	558	1619	4914	1525	1619	4914	1525
Grp Volume(v), veh/h	85	469	38	97	0	201	64	2120	166	99	1445	41
Grp Sat Flow(s),veh/h/ln	1074	1800	1525	811	0	1700	1619	1638	1525	1619	1638	1525
Q Serve(g_s), s	6.9	25.0	1.8	13.1	0.0	9.5	4.4	45.8	8.1	6.8	26.4	1.8
Cycle Q Clear(g_c), s	16.5	25.0	1.8	38.1	0.0	9.5	4.4	45.8	8.1	6.8	26.4	1.8
Prop In Lane	1.00		1.00	1.00		0.33	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	366	658	558	180	0	622	80	2008	623	121	2133	662
V/C Ratio(X)	0.23	0.71	0.07	0.54	0.00	0.32	0.80	1.06	0.27	0.82	0.68	0.06
Avail Cap(c_a), veh/h	425	758	642	225	0	716	107	2008	623	165	2133	662
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	31.5	30.5	23.1	46.8	0.0	25.6	52.7	33.1	22.0	51.1	25.4	18.4
Incr Delay (d2), s/veh	0.3	2.7	0.1	2.5	0.0	0.3	19.7	36.7	1.0	15.1	1.8	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	10.7	0.6	2.7	0.0	3.7	2.1	23.1	2.9	3.1	9.6	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	31.8	33.1	23.2	49.3	0.0	25.9	72.4	69.8	23.0	66.2	27.2	18.6
LnGrp LOS	C	C	C	D	A	C	E	F	C	E	C	B
Approach Vol, veh/h		592			298			2350			1585	
Approach Delay, s/veh		32.3			33.5			66.6			29.4	
Approach LOS		C			C			E			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.0	52.3		46.8	10.1	55.2		46.8				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 46		47.2	7.4	48.5		47.2				
Max Q Clear Time (g_c+I1), s	8.8	47.8		27.0	6.4	28.4		40.1				
Green Ext Time (p_c), s	0.0	0.0		3.0	0.0	9.4		0.9				

Intersection Summary			
HCM 6th Ctrl Delay		48.1	
HCM 6th LOS		D	

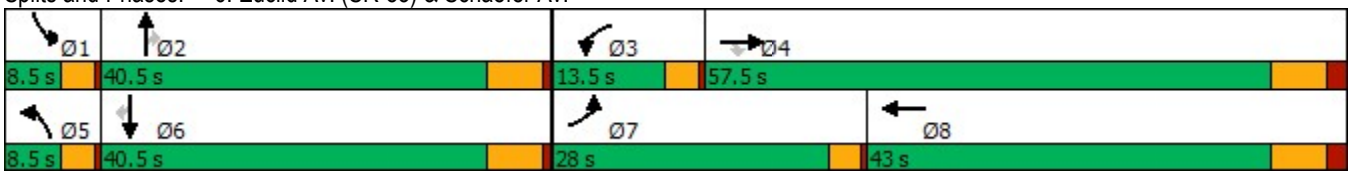
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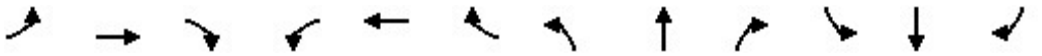
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	367	305	157	46	111	162	1846	50	82	1302	151
Future Volume (vph)	367	305	157	46	111	162	1846	50	82	1302	151
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	28.0	57.5	57.5	13.5	43.0	8.5	40.5	40.5	8.5	40.5	40.5
Total Split (%)	23.3%	47.9%	47.9%	11.3%	35.8%	7.1%	33.8%	33.8%	7.1%	33.8%	33.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	24.8	36.9	36.9	10.1	16.3	5.1	35.5	35.5	5.1	33.6	33.6
Actuated g/C Ratio	0.25	0.37	0.37	0.10	0.16	0.05	0.36	0.36	0.05	0.34	0.34
v/c Ratio	0.94	0.47	0.24	0.29	0.60	1.06	1.09	0.08	0.54	0.81	0.26
Control Delay	72.8	28.2	4.5	50.5	41.2	135.4	82.4	0.3	62.4	36.1	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	72.8	28.2	4.5	50.5	41.2	135.4	82.4	0.3	62.4	36.1	8.4
LOS	E	C	A	D	D	F	F	A	E	D	A
Approach Delay		43.4			43.2		84.6			34.8	
Approach LOS		D			D		F			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 99.9	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.09	
Intersection Signal Delay: 58.8	Intersection LOS: E
Intersection Capacity Utilization 92.8%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	367	305	157	46	111	61	162	1846	50	82	1302	151
Future Volume (veh/h)	367	305	157	46	111	61	162	1846	50	82	1302	151
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	378	314	97	47	114	57	167	1903	45	85	1342	111
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	405	548	464	121	146	73	165	1785	554	148	1757	538
Arrive On Green	0.25	0.30	0.30	0.07	0.13	0.13	0.05	0.36	0.36	0.05	0.36	0.36
Sat Flow, veh/h	1619	1800	1525	1619	1131	566	3141	4914	1525	3141	4914	1505
Grp Volume(v), veh/h	378	314	97	47	0	171	167	1903	45	85	1342	111
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1697	1570	1638	1525	1570	1638	1505
Q Serve(g_s), s	21.7	14.0	4.5	2.6	0.0	9.3	5.0	34.5	1.8	2.5	22.9	4.9
Cycle Q Clear(g_c), s	21.7	14.0	4.5	2.6	0.0	9.3	5.0	34.5	1.8	2.5	22.9	4.9
Prop In Lane	1.00		1.00	1.00		0.33	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	405	548	464	121	0	219	165	1785	554	148	1757	538
V/C Ratio(X)	0.93	0.57	0.21	0.39	0.00	0.78	1.01	1.07	0.08	0.58	0.76	0.21
Avail Cap(c_a), veh/h	418	957	811	170	0	643	165	1785	554	165	1785	547
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.8	27.8	24.5	41.9	0.0	40.1	45.0	30.2	19.8	44.3	27.0	21.2
Incr Delay (d2), s/veh	27.0	0.7	0.2	0.8	0.0	4.5	72.6	41.5	0.1	1.7	2.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.1	5.7	1.6	1.0	0.0	4.0	3.5	18.8	0.6	1.0	8.3	1.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.9	28.5	24.7	42.6	0.0	44.6	117.6	71.7	19.9	46.1	28.9	21.3
LnGrp LOS	E	C	C	D	A	D	F	F	B	D	C	C
Approach Vol, veh/h		789			218			2115			1538	
Approach Delay, s/veh		44.0			44.1			74.2			29.3	
Approach LOS		D			D			E			C	

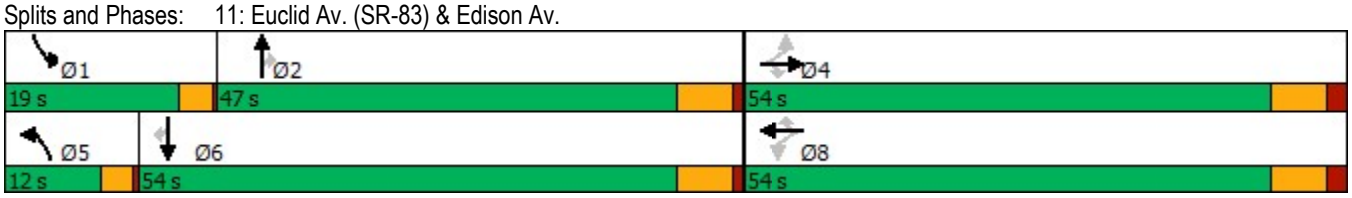
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.0	40.5	10.6	35.9	8.5	40.0	27.3	19.3
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	34.5	10.0	50.5	5.0	34.5	24.5	36.0
Max Q Clear Time (g_c+I1), s	4.5	36.5	4.6	16.0	7.0	24.9	23.7	11.3
Green Ext Time (p_c), s	0.0	0.0	0.0	1.6	0.0	5.6	0.1	0.7

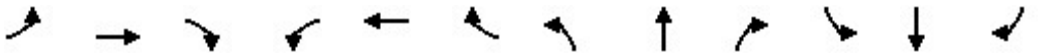
Intersection Summary	
HCM 6th Ctrl Delay	52.9
HCM 6th LOS	D

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	258	573	215	49	479	256	207	1548	52	155	1119	188
Future Volume (vph)	258	573	215	49	479	256	207	1548	52	155	1119	188
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	54.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	45.0%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag							Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?							Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	47.0	47.0	47.0	47.0	47.0	47.0	8.5	40.8	40.8	14.1	46.4	46.4
Actuated g/C Ratio	0.40	0.40	0.40	0.40	0.40	0.40	0.07	0.34	0.34	0.12	0.39	0.39
v/c Ratio	1.38	0.82	0.30	0.40	0.68	0.35	0.94	0.93	0.09	0.83	0.59	0.27
Control Delay	234.2	43.2	5.9	38.5	35.9	5.0	101.9	48.9	0.7	83.3	30.0	5.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	234.2	43.2	5.9	38.5	35.9	5.0	101.9	48.9	0.7	83.3	30.0	5.0
LOS	F	D	A	D	D	A	F	D	A	F	C	A
Approach Delay		82.7			26.0			53.5			32.4	
Approach LOS		F			C			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.4	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.38	
Intersection Signal Delay: 49.2	Intersection LOS: D
Intersection Capacity Utilization 104.0%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	258	573	215	49	479	256	207	1548	52	155	1119	188
Future Volume (veh/h)	258	573	215	49	479	256	207	1548	52	155	1119	188
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	263	585	168	50	489	250	211	1580	43	158	1142	141
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	178	722	612	134	722	604	228	1696	514	182	1893	580
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.07	0.35	0.35	0.11	0.39	0.39
Sat Flow, veh/h	654	1800	1525	645	1800	1505	3141	4914	1489	1619	4914	1506
Grp Volume(v), veh/h	263	585	168	50	489	250	211	1580	43	158	1142	141
Grp Sat Flow(s),veh/h/ln	654	1800	1525	645	1800	1505	1570	1638	1489	1619	1638	1506
Q Serve(g_s), s	20.8	33.8	8.7	8.7	26.2	14.0	7.8	36.3	2.3	11.2	21.8	7.4
Cycle Q Clear(g_c), s	47.0	33.8	8.7	42.5	26.2	14.0	7.8	36.3	2.3	11.2	21.8	7.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	178	722	612	134	722	604	228	1696	514	182	1893	580
V/C Ratio(X)	1.48	0.81	0.27	0.37	0.68	0.41	0.93	0.93	0.08	0.87	0.60	0.24
Avail Cap(c_a), veh/h	178	722	612	134	722	604	228	1720	521	214	2014	617
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.7	31.1	23.6	49.9	28.8	25.2	54.0	37.0	25.9	51.1	28.8	24.4
Incr Delay (d2), s/veh	243.2	6.9	0.2	1.7	2.5	0.5	39.1	9.6	0.1	23.6	0.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	17.2	15.2	3.0	1.4	11.2	4.8	4.2	14.9	0.8	5.5	8.0	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	295.0	38.0	23.8	51.6	31.4	25.6	93.1	46.6	25.9	74.7	29.3	24.6
LnGrp LOS	F	D	C	D	C	C	F	D	C	E	C	C
Approach Vol, veh/h		1016			789			1834			1441	
Approach Delay, s/veh		102.2			30.8			51.5			33.8	
Approach LOS		F			C			D			C	

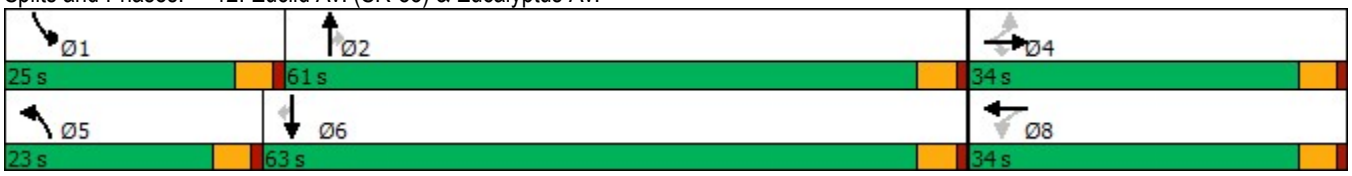
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	16.7	46.4		54.0	12.0	51.1		54.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	13.2	38.3		49.0	9.8	23.8		44.5				
Green Ext Time (p_c), s	0.0	2.1		0.0	0.0	8.1		1.1				

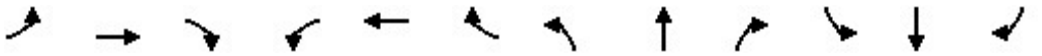
Intersection Summary												
HCM 6th Ctrl Delay			53.4									
HCM 6th LOS			D									

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	38	151	212	6	48	119	1640	21	137	1549	56
Future Volume (vph)	38	151	212	6	48	119	1640	21	137	1549	56
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	34.0	34.0	34.0	34.0	34.0	23.0	61.0	61.0	25.0	63.0	63.0
Total Split (%)	28.3%	28.3%	28.3%	28.3%	28.3%	19.2%	50.8%	50.8%	20.8%	52.5%	52.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	15.3	15.3	15.3	15.3	15.3	12.5	40.2	40.2	13.6	41.3	41.3
Actuated g/C Ratio	0.18	0.18	0.18	0.18	0.18	0.15	0.48	0.48	0.16	0.49	0.49
v/c Ratio	0.50	0.48	0.48	0.03	0.71	0.51	0.72	0.03	0.54	0.67	0.08
Control Delay	57.1	38.5	8.8	33.3	21.3	45.9	20.2	0.0	45.0	18.2	4.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.1	38.5	8.8	33.3	21.3	45.9	20.2	0.0	45.0	18.2	4.3
LOS	E	D	A	C	C	D	C	A	D	B	A
Approach Delay		24.6			21.5		21.7			19.9	
Approach LOS		C			C		C			B	

Intersection Summary		
Cycle Length: 120		
Actuated Cycle Length: 83.6		
Natural Cycle: 65		
Control Type: Actuated-Uncoordinated		
Maximum v/c Ratio: 0.72		
Intersection Signal Delay: 21.2	Intersection LOS: C	
Intersection Capacity Utilization 81.4%	ICU Level of Service D	
Analysis Period (min) 15		

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	38	151	212	6	48	271	119	1640	21	137	1549	56
Future Volume (veh/h)	38	151	212	6	48	271	119	1640	21	137	1549	56
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	40	157	126	6	50	279	124	1708	20	143	1614	47
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	153	483	409	280	64	355	154	2298	713	176	2364	733
Arrive On Green	0.27	0.27	0.27	0.27	0.27	0.27	0.10	0.47	0.47	0.11	0.48	0.48
Sat Flow, veh/h	955	1800	1525	996	237	1324	1619	4914	1525	1619	4914	1524
Grp Volume(v), veh/h	40	157	126	6	0	329	124	1708	20	143	1614	47
Grp Sat Flow(s),veh/h/ln	955	1800	1525	996	0	1562	1619	1638	1525	1619	1638	1524
Q Serve(g_s), s	3.5	6.1	5.7	0.4	0.0	16.9	6.5	24.6	0.6	7.5	22.0	1.4
Cycle Q Clear(g_c), s	20.4	6.1	5.7	6.5	0.0	16.9	6.5	24.6	0.6	7.5	22.0	1.4
Prop In Lane	1.00		1.00	1.00		0.85	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	153	483	409	280	0	419	154	2298	713	176	2364	733
V/C Ratio(X)	0.26	0.33	0.31	0.02	0.00	0.79	0.81	0.74	0.03	0.81	0.68	0.06
Avail Cap(c_a), veh/h	222	613	519	353	0	532	346	3203	994	383	3317	1029
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.9	25.4	25.3	28.0	0.0	29.4	38.4	18.8	12.4	37.8	17.4	12.0
Incr Delay (d2), s/veh	0.9	0.4	0.4	0.0	0.0	6.0	9.4	0.6	0.0	8.8	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	2.5	2.0	0.1	0.0	6.6	2.8	7.8	0.2	3.2	6.9	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	39.8	25.8	25.7	28.1	0.0	35.4	47.8	19.4	12.5	46.5	17.7	12.1
LnGrp LOS	D	C	C	C	A	D	D	B	B	D	B	B
Approach Vol, veh/h		323			335			1852			1804	
Approach Delay, s/veh		27.5			35.3			21.3			19.9	
Approach LOS		C			D			C			B	

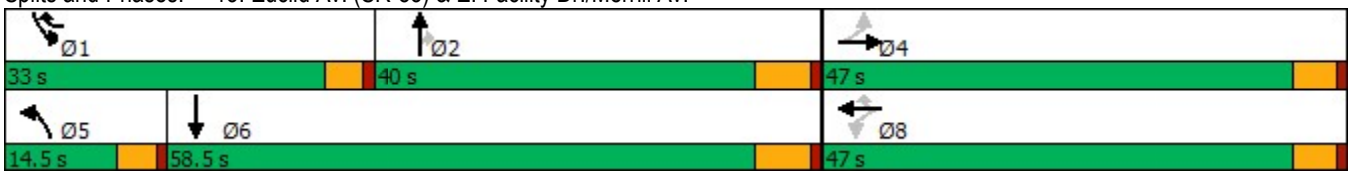
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	13.9	45.0		27.7	12.7	46.2		27.7				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	20.5	56.5		29.5	18.5	58.5		29.5				
Max Q Clear Time (g_c+I1), s	9.5	26.6		22.4	8.5	24.0		18.9				
Green Ext Time (p_c), s	0.2	13.9		0.8	0.2	13.8		1.4				

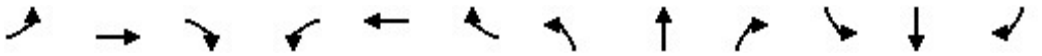
Intersection Summary			
HCM 6th Ctrl Delay		22.2	
HCM 6th LOS		C	

Lane Group	EBL	EBT	WBL	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	3	20	602	579	1	1151	348	380	1361
Future Volume (vph)	3	20	602	579	1	1151	348	380	1361
Turn Type	Perm	NA	Perm	pm+ov	Prot	NA	Perm	Prot	NA
Protected Phases		4		1	5	2		1	6
Permitted Phases	4		8	8			2		
Detector Phase	4	4	8	1	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	10.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	14.5	14.5	28.0	28.0	14.5	28.0
Total Split (s)	47.0	47.0	47.0	33.0	14.5	40.0	40.0	33.0	58.5
Total Split (%)	39.2%	39.2%	39.2%	27.5%	12.1%	33.3%	33.3%	27.5%	48.8%
Yellow Time (s)	4.0	4.0	4.0	3.5	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0	5.0	4.5	4.5	6.0	6.0	4.5	6.0
Lead/Lag				Lead	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?				Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		42.0	42.0	75.5	10.0	32.6	32.6	28.5	62.7
Actuated g/C Ratio		0.35	0.35	0.64	0.08	0.27	0.27	0.24	0.53
v/c Ratio		0.05	1.40	0.61	0.01	0.80	0.67	1.01	0.50
Control Delay		20.8	226.3	15.6	51.0	44.8	26.9	93.9	19.2
Queue Delay		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		20.8	226.3	15.6	51.0	44.8	26.9	93.9	19.2
LOS		C	F	B	D	D	C	F	B
Approach Delay		20.8				40.6			35.4
Approach LOS		C				D			D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.6	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.40	
Intersection Signal Delay: 60.3	Intersection LOS: E
Intersection Capacity Utilization 103.9%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	3	20	9	602	0	579	1	1151	348	380	1361	10
Future Volume (veh/h)	3	20	9	602	0	579	1	1151	348	380	1361	10
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	3	21	5	621	0	568	1	1187	325	392	1403	8
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	70	446	100	517	646	919	4	1430	395	394	2713	15
Arrive On Green	0.36	0.36	0.36	0.36	0.00	0.36	0.00	0.26	0.26	0.24	0.51	0.51
Sat Flow, veh/h	101	1242	280	1259	1800	1525	1619	5400	1493	1619	5364	31
Grp Volume(v), veh/h	29	0	0	621	0	568	1	1187	325	392	942	469
Grp Sat Flow(s),veh/h/ln	1622	0	0	1259	1800	1525	1619	1800	1493	1619	1800	1794
Q Serve(g_s), s	0.0	0.0	0.0	40.7	0.0	27.6	0.1	24.2	23.9	28.3	20.5	20.5
Cycle Q Clear(g_c), s	1.3	0.0	0.0	42.0	0.0	27.6	0.1	24.2	23.9	28.3	20.5	20.5
Prop In Lane	0.10		0.17	1.00		1.00	1.00		1.00	1.00		0.02
Lane Grp Cap(c), veh/h	616	0	0	517	646	919	4	1430	395	394	1821	908
V/C Ratio(X)	0.05	0.00	0.00	1.20	0.00	0.62	0.23	0.83	0.82	0.99	0.52	0.52
Avail Cap(c_a), veh/h	616	0	0	517	646	919	138	1570	434	394	1821	908
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	24.4	0.0	0.0	39.8	0.0	14.7	58.2	40.5	40.4	44.2	19.4	19.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	107.7	0.0	0.9	9.3	3.6	11.2	43.5	0.3	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.5	0.0	0.0	30.3	0.0	8.5	0.0	10.5	9.5	15.4	7.8	7.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	24.4	0.0	0.0	147.5	0.0	15.6	67.5	44.1	51.6	87.7	19.6	19.9
LnGrp LOS	C	A	A	F	A	B	E	D	D	F	B	B
Approach Vol, veh/h		29			1189			1513			1803	
Approach Delay, s/veh		24.4			84.5			45.8			34.5	
Approach LOS		C			F			D			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	33.0	37.0		47.0	4.8	65.2		47.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	28.5	34.0		42.0	10.0	52.5		42.0				
Max Q Clear Time (g_c+I1), s	30.3	26.2		3.3	2.1	22.5		44.0				
Green Ext Time (p_c), s	0.0	4.7		0.1	0.0	9.9		0.0				

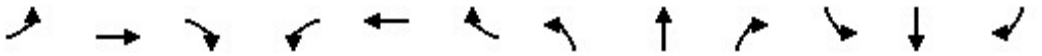
Intersection Summary												
HCM 6th Ctrl Delay			51.3									
HCM 6th LOS			D									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	368	946	74	87	455	207	89	866	195	544	1133	267
Future Volume (vph)	368	946	74	87	455	207	89	866	195	544	1133	267
Turn Type	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8	1	5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	1	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	24.0	44.0	44.0	10.6	30.6	32.0	18.4	33.4	10.6	32.0	47.0	24.0
Total Split (%)	20.0%	36.7%	36.7%	8.8%	25.5%	26.7%	15.3%	27.8%	8.8%	26.7%	39.2%	20.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	17.8	36.1	36.1	6.2	24.5	53.8	11.1	25.6	36.3	24.7	42.0	59.8
Actuated g/C Ratio	0.16	0.33	0.33	0.06	0.22	0.49	0.10	0.23	0.33	0.22	0.38	0.54
v/c Ratio	0.79	0.87	0.13	0.51	0.61	0.27	0.57	0.78	0.34	0.84	0.62	0.30
Control Delay	59.3	45.2	0.5	64.9	44.1	10.4	63.7	46.1	12.0	55.0	31.3	5.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	59.3	45.2	0.5	64.9	44.1	10.4	63.7	46.1	12.0	55.0	31.3	5.7
LOS	E	D	A	E	D	B	E	D	B	E	C	A
Approach Delay		46.5			37.2			41.7			34.4	
Approach LOS		D			D			D			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 110.8	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.87	
Intersection Signal Delay: 39.6	Intersection LOS: D
Intersection Capacity Utilization 82.9%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	368	946	74	87	455	207	89	866	195	544	1133	267
Future Volume (veh/h)	368	946	74	87	455	207	89	866	195	544	1133	267
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	376	965	64	89	464	140	91	884	157	555	1156	230
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	443	1131	505	144	775	672	114	1129	420	632	1836	792
Arrive On Green	0.15	0.33	0.33	0.05	0.23	0.23	0.07	0.23	0.23	0.21	0.37	0.37
Sat Flow, veh/h	2956	3420	1525	3141	3420	1525	1619	4914	1525	2956	4914	1506
Grp Volume(v), veh/h	376	965	64	89	464	140	91	884	157	555	1156	230
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1570	1710	1525	1619	1638	1525	1478	1638	1506
Q Serve(g_s), s	12.4	26.3	2.9	2.8	12.2	5.7	5.5	16.9	8.3	18.2	19.3	8.6
Cycle Q Clear(g_c), s	12.4	26.3	2.9	2.8	12.2	5.7	5.5	16.9	8.3	18.2	19.3	8.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	443	1131	505	144	775	672	114	1129	420	632	1836	792
V/C Ratio(X)	0.85	0.85	0.13	0.62	0.60	0.21	0.80	0.78	0.37	0.88	0.63	0.29
Avail Cap(c_a), veh/h	576	1349	602	191	891	724	225	1418	510	812	2085	868
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.5	31.2	23.4	46.9	34.7	17.3	45.9	36.2	29.3	38.1	25.7	13.4
Incr Delay (d2), s/veh	9.1	4.8	0.1	4.3	0.9	0.2	12.2	2.3	0.6	8.9	0.5	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.9	10.9	1.0	1.1	4.9	1.9	2.5	6.5	3.0	6.9	6.8	2.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	50.6	36.0	23.5	51.2	35.5	17.4	58.1	38.5	29.8	47.0	26.2	13.6
LnGrp LOS	D	D	C	D	D	B	E	D	C	D	C	B
Approach Vol, veh/h		1405			693			1132			1941	
Approach Delay, s/veh		39.3			33.9			38.9			30.6	
Approach LOS		D			C			D			C	

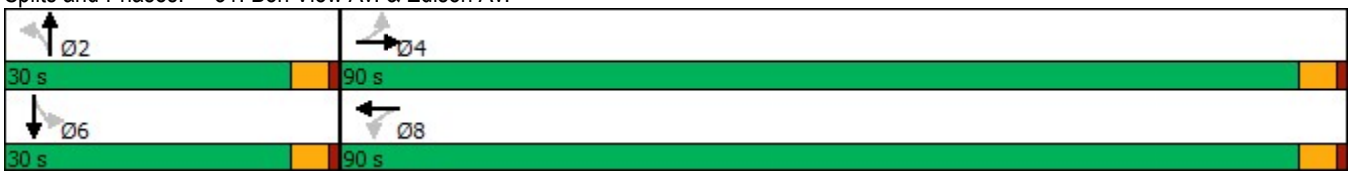
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.9	27.5	9.1	37.6	11.5	41.9	19.5	27.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	27.5	28.9	6.1	39.5	13.9	42.5	19.5	26.1
Max Q Clear Time (g_c+I1), s	20.2	18.9	4.8	28.3	7.5	21.3	14.4	14.2
Green Ext Time (p_c), s	1.2	4.1	0.0	4.8	0.1	8.2	0.6	2.5

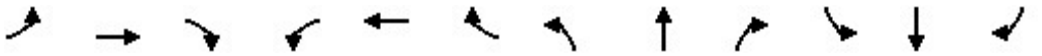
Intersection Summary	
HCM 6th Ctrl Delay	35.2
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	65	815	6	694	8	186	20	180
Future Volume (vph)	65	815	6	694	8	186	20	180
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	90.0	90.0	90.0	90.0	30.0	30.0	30.0	30.0
Total Split (%)	75.0%	75.0%	75.0%	75.0%	25.0%	25.0%	25.0%	25.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		54.3		54.3		17.1		17.1
Actuated g/C Ratio		0.67		0.67		0.21		0.21
v/c Ratio		0.86		0.62		0.57		0.64
Control Delay		20.1		10.1		39.4		41.7
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		20.1		10.1		39.4		41.7
LOS		C		B		D		D
Approach Delay		20.1		10.1		39.4		41.7
Approach LOS		C		B		D		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 81.5	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.86	
Intersection Signal Delay: 20.9	Intersection LOS: C
Intersection Capacity Utilization 114.6%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	65	815	25	6	694	17	8	186	13	20	180	24
Future Volume (veh/h)	65	815	25	6	694	17	8	186	13	20	180	24
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	71	886	27	7	754	18	9	202	14	22	196	26
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	123	1064	31	70	1195	28	76	312	21	90	281	35
Arrive On Green	0.65	0.65	0.65	0.65	0.65	0.65	0.18	0.18	0.18	0.18	0.18	0.18
Sat Flow, veh/h	79	1636	48	4	1836	44	31	1719	116	90	1547	195
Grp Volume(v), veh/h	984	0	0	779	0	0	225	0	0	244	0	0
Grp Sat Flow(s),veh/h/ln	1764	0	0	1884	0	0	1866	0	0	1832	0	0
Q Serve(g_s), s	9.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0
Cycle Q Clear(g_c), s	22.4	0.0	0.0	13.1	0.0	0.0	6.0	0.0	0.0	6.6	0.0	0.0
Prop In Lane	0.07		0.03	0.01		0.02	0.04		0.06	0.09		0.11
Lane Grp Cap(c), veh/h	1219	0	0	1293	0	0	408	0	0	406	0	0
V/C Ratio(X)	0.81	0.00	0.00	0.60	0.00	0.00	0.55	0.00	0.00	0.60	0.00	0.00
Avail Cap(c_a), veh/h	2814	0	0	3050	0	0	949	0	0	927	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	6.9	0.0	0.0	5.6	0.0	0.0	20.4	0.0	0.0	20.6	0.0	0.0
Incr Delay (d2), s/veh	1.3	0.0	0.0	0.5	0.0	0.0	1.2	0.0	0.0	1.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.9	0.0	0.0	2.3	0.0	0.0	2.3	0.0	0.0	2.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.3	0.0	0.0	6.0	0.0	0.0	21.6	0.0	0.0	22.1	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	C	A	A	C	A	A
Approach Vol, veh/h		984			779			225			244	
Approach Delay, s/veh		8.3			6.0			21.6			22.1	
Approach LOS		A			A			C			C	

Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		14.2		39.4		14.2		39.4				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		25.5		85.5		25.5		85.5				
Max Q Clear Time (g_c+I1), s		8.0		24.4		8.6		15.1				
Green Ext Time (p_c), s		1.0		10.5		1.1		6.2				

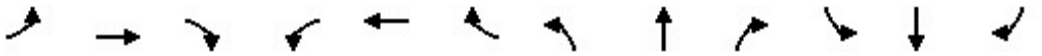
Intersection Summary												
HCM 6th Ctrl Delay			10.3									
HCM 6th LOS			B									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	130	231	2	79	35	627	61	228
Future Volume (vph)	130	231	2	79	35	627	61	228
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	52.0	52.0	52.0	52.0	68.0	68.0	68.0	68.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	56.7%	56.7%	56.7%	56.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		35.2		35.2		44.8		44.8
Actuated g/C Ratio		0.39		0.39		0.50		0.50
v/c Ratio		0.81		0.20		0.84		0.50
Control Delay		36.9		17.2		29.9		18.3
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		36.9		17.2		29.9		18.3
LOS		D		B		C		B
Approach Delay		36.9		17.2		29.9		18.3
Approach LOS		D		B		C		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 89.9	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.84	
Intersection Signal Delay: 28.6	Intersection LOS: C
Intersection Capacity Utilization 83.8%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 32: Grove Av. & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	130	231	104	2	79	49	35	627	34	61	228	36
Future Volume (veh/h)	130	231	104	2	79	49	35	627	34	61	228	36
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	143	254	114	2	87	54	38	689	37	67	251	40
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	219	326	135	61	405	247	85	830	43	157	553	81
Arrive On Green	0.37	0.37	0.37	0.37	0.37	0.37	0.49	0.49	0.49	0.49	0.49	0.49
Sat Flow, veh/h	392	885	367	5	1100	670	50	1709	90	181	1137	166
Grp Volume(v), veh/h	511	0	0	143	0	0	764	0	0	358	0	0
Grp Sat Flow(s),veh/h/ln	1644	0	0	1775	0	0	1848	0	0	1485	0	0
Q Serve(g_s), s	14.0	0.0	0.0	0.0	0.0	0.0	8.6	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	17.4	0.0	0.0	3.4	0.0	0.0	22.2	0.0	0.0	7.6	0.0	0.0
Prop In Lane	0.28		0.22	0.01		0.38	0.05		0.05	0.19		0.11
Lane Grp Cap(c), veh/h	680	0	0	713	0	0	959	0	0	791	0	0
V/C Ratio(X)	0.75	0.00	0.00	0.20	0.00	0.00	0.80	0.00	0.00	0.45	0.00	0.00
Avail Cap(c_a), veh/h	1325	0	0	1418	0	0	1945	0	0	1575	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	17.7	0.0	0.0	13.4	0.0	0.0	13.8	0.0	0.0	10.1	0.0	0.0
Incr Delay (d2), s/veh	1.7	0.0	0.0	0.1	0.0	0.0	1.6	0.0	0.0	0.4	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	0.0	0.0	1.2	0.0	0.0	7.2	0.0	0.0	2.4	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	19.4	0.0	0.0	13.5	0.0	0.0	15.3	0.0	0.0	10.5	0.0	0.0
LnGrp LOS	B	A	A	B	A	A	B	A	A	B	A	A
Approach Vol, veh/h		511			143			764			358	
Approach Delay, s/veh		19.4			13.5			15.3			10.5	
Approach LOS		B			B			B			B	

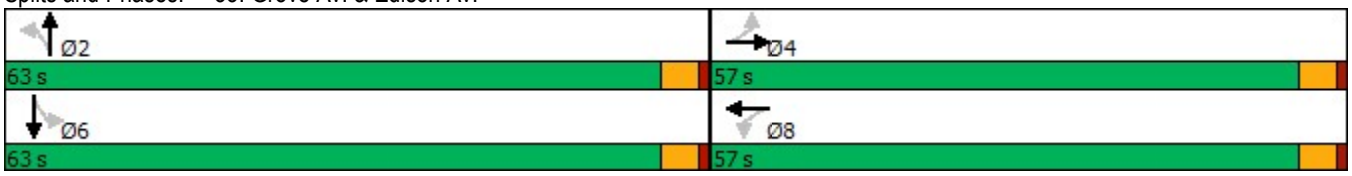
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		34.5		27.3		34.5		27.3				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		63.5		47.5		63.5		47.5				
Max Q Clear Time (g_c+I1), s		24.2		19.4		9.6		5.4				
Green Ext Time (p_c), s		5.8		3.3		2.6		0.8				

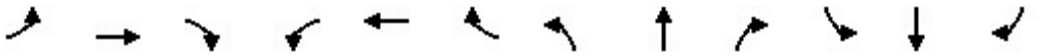
Intersection Summary												
HCM 6th Ctrl Delay			15.4									
HCM 6th LOS			B									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	53	612	25	261	442	593	53	260
Future Volume (vph)	53	612	25	261	442	593	53	260
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	57.0	57.0	57.0	57.0	63.0	63.0	63.0	63.0
Total Split (%)	47.5%	47.5%	47.5%	47.5%	52.5%	52.5%	52.5%	52.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	52.5	52.5	52.5	52.5	58.5	58.5	58.5	58.5
Actuated g/C Ratio	0.44	0.44	0.44	0.44	0.49	0.49	0.49	0.49
v/c Ratio	0.17	1.10	0.48	0.41	1.05	0.46	0.24	0.19
Control Delay	22.2	95.8	57.2	24.6	86.2	20.7	21.4	17.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	22.2	95.8	57.2	24.6	86.2	20.7	21.4	17.0
LOS	C	F	E	C	F	C	C	B
Approach Delay		91.1		27.2		46.0		17.7
Approach LOS		F		C		D		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.10	
Intersection Signal Delay: 54.4	Intersection LOS: D
Intersection Capacity Utilization 96.3%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	53	612	176	25	261	36	442	593	111	53	260	26
Future Volume (veh/h)	53	612	176	25	261	36	442	593	111	53	260	26
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	57	658	189	27	281	39	475	638	119	57	280	28
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	361	588	169	60	677	94	485	1403	261	279	1532	152
Arrive On Green	0.44	0.44	0.44	0.44	0.44	0.44	0.49	0.49	0.49	0.49	0.49	0.49
Sat Flow, veh/h	963	1344	386	591	1547	215	974	2878	536	643	3142	312
Grp Volume(v), veh/h	57	0	847	27	0	320	475	379	378	57	151	157
Grp Sat Flow(s),veh/h/ln	963	0	1730	591	0	1761	974	1710	1704	643	1710	1744
Q Serve(g_s), s	5.2	0.0	52.5	0.0	0.0	15.0	52.4	17.5	17.6	7.7	6.0	6.1
Cycle Q Clear(g_c), s	20.2	0.0	52.5	52.5	0.0	15.0	58.5	17.5	17.6	25.2	6.0	6.1
Prop In Lane	1.00		0.22	1.00		0.12	1.00		0.31	1.00		0.18
Lane Grp Cap(c), veh/h	361	0	757	60	0	771	485	834	830	279	834	850
V/C Ratio(X)	0.16	0.00	1.12	0.45	0.00	0.42	0.98	0.45	0.46	0.20	0.18	0.18
Avail Cap(c_a), veh/h	361	0	757	60	0	771	485	834	830	279	834	850
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	30.1	0.0	33.8	60.0	0.0	23.2	36.5	20.2	20.3	28.6	17.3	17.3
Incr Delay (d2), s/veh	0.2	0.0	70.4	5.2	0.0	0.4	35.2	0.4	0.4	0.4	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	0.0	35.3	0.9	0.0	6.0	18.6	6.6	6.5	1.2	2.2	2.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	30.3	0.0	104.2	65.2	0.0	23.6	71.7	20.6	20.6	28.9	17.4	17.4
LnGrp LOS	C	A	F	E	A	C	E	C	C	C	B	B
Approach Vol, veh/h		904			347			1232			365	
Approach Delay, s/veh		99.5			26.8			40.3			19.2	
Approach LOS		F			C			D			B	

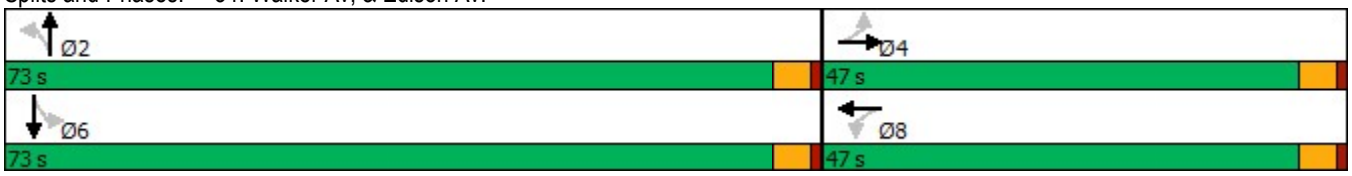
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		63.0		57.0		63.0		57.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		58.5		52.5		58.5		52.5				
Max Q Clear Time (g_c+I1), s		60.5		54.5		27.2		54.5				
Green Ext Time (p_c), s		0.0		0.0		2.1		0.0				

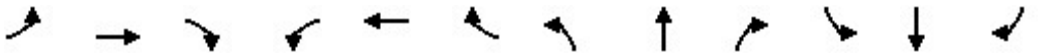
Intersection Summary												
HCM 6th Ctrl Delay			54.8									
HCM 6th LOS			D									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	20	734	196	293	1	110	167	58
Future Volume (vph)	20	734	196	293	1	110	167	58
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	47.0	47.0	47.0	47.0	73.0	73.0	73.0	73.0
Total Split (%)	39.2%	39.2%	39.2%	39.2%	60.8%	60.8%	60.8%	60.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	42.5	42.5	42.5	42.5	68.5	68.5	68.5	68.5
Actuated g/C Ratio	0.35	0.35	0.35	0.35	0.57	0.57	0.57	0.57
v/c Ratio	0.07	0.60	1.50	0.30	0.00	0.90	1.34	0.08
Control Delay	26.6	34.0	288.8	26.5	11.0	34.8	219.9	8.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	26.6	34.0	288.8	26.5	11.0	34.8	219.9	8.9
LOS	C	C	F	C	B	C	F	A
Approach Delay		33.8		118.4		34.8		153.2
Approach LOS		C		F		C		F

Intersection Summary		
Cycle Length: 120		
Actuated Cycle Length: 120		
Natural Cycle: 50		
Control Type: Actuated-Uncoordinated		
Maximum v/c Ratio: 1.50		
Intersection Signal Delay: 66.6	Intersection LOS: E	
Intersection Capacity Utilization 103.6%	ICU Level of Service G	
Analysis Period (min) 15		

Splits and Phases: 34: Walker Av, & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	20	734	4	196	293	71	1	110	686	167	58	19
Future Volume (veh/h)	20	734	4	196	293	71	1	110	686	167	58	19
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	22	798	4	213	318	44	1	120	529	182	63	21
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	384	1424	7	209	1233	169	759	166	734	262	741	247
Arrive On Green	0.38	0.38	0.38	0.38	0.38	0.38	0.54	0.54	0.54	0.54	0.54	0.54
Sat Flow, veh/h	1036	3778	19	689	3271	448	1335	306	1351	795	1364	455
Grp Volume(v), veh/h	22	401	401	213	183	179	1	0	649	182	0	84
Grp Sat Flow(s),veh/h/ln	1036	1900	1897	689	1900	1819	1335	0	1657	795	0	1818
Q Serve(g_s), s	1.7	18.8	18.8	23.7	7.5	7.6	0.0	0.0	33.2	25.1	0.0	2.5
Cycle Q Clear(g_c), s	9.3	18.8	18.8	42.5	7.5	7.6	2.5	0.0	33.2	58.3	0.0	2.5
Prop In Lane	1.00		0.01	1.00		0.25	1.00		0.82	1.00		0.25
Lane Grp Cap(c), veh/h	384	716	715	209	716	686	759	0	900	262	0	988
V/C Ratio(X)	0.06	0.56	0.56	1.02	0.26	0.26	0.00	0.00	0.72	0.70	0.00	0.09
Avail Cap(c_a), veh/h	384	716	715	209	716	686	845	0	1007	313	0	1105
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	27.5	27.7	27.7	48.2	24.2	24.3	12.9	0.0	19.3	41.2	0.0	12.3
Incr Delay (d2), s/veh	0.1	1.0	1.0	67.8	0.2	0.2	0.0	0.0	2.2	5.2	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	8.3	8.3	9.7	3.3	3.2	0.0	0.0	12.0	5.1	0.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	27.5	28.7	28.7	115.9	24.4	24.5	12.9	0.0	21.6	46.4	0.0	12.4
LnGrp LOS	C	C	C	F	C	C	B	A	C	D	A	B
Approach Vol, veh/h		824			575			650			266	
Approach Delay, s/veh		28.7			58.3			21.6			35.7	
Approach LOS		C			E			C			D	

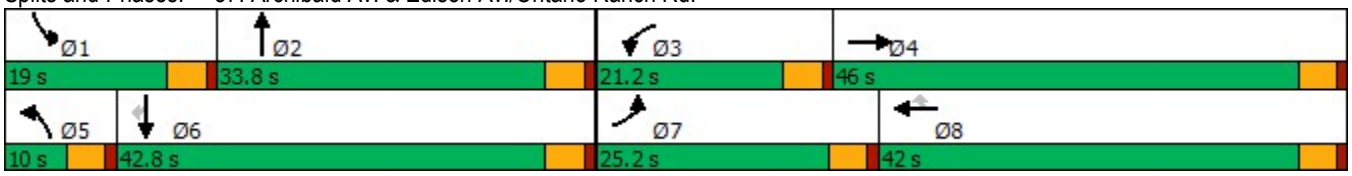
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		65.7		47.0		65.7		47.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		68.5		42.5		68.5		42.5				
Max Q Clear Time (g_c+I1), s		35.2		20.8		60.3		44.5				
Green Ext Time (p_c), s		4.9		4.6		0.9		0.0				

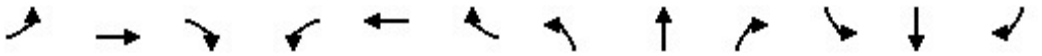
Intersection Summary												
HCM 6th Ctrl Delay			34.9									
HCM 6th LOS			C									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	324	1131	299	377	402	116	108	1146	608	162	964	139
Future Volume (vph)	324	1131	299	377	402	116	108	1146	608	162	964	139
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	25.2	46.0		21.2	42.0	42.0	10.0	33.8		19.0	42.8	42.8
Total Split (%)	21.0%	38.3%		17.7%	35.0%	35.0%	8.3%	28.2%		15.8%	35.7%	35.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	18.0	41.4	119.5	16.7	40.1	40.1	5.5	29.1	119.5	14.2	37.9	37.9
Actuated g/C Ratio	0.15	0.35	1.00	0.14	0.34	0.34	0.05	0.24	1.00	0.12	0.32	0.32
v/c Ratio	0.75	0.96	0.21	0.93	0.37	0.20	0.79	0.92	0.42	0.89	0.89	0.27
Control Delay	59.0	55.3	0.3	81.3	31.9	4.7	92.0	55.7	0.8	93.8	49.7	13.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	59.0	55.3	0.3	81.3	31.9	4.7	92.0	55.7	0.8	93.8	49.7	13.0
LOS	E	E	A	F	C	A	F	E	A	F	D	B
Approach Delay		46.6			49.2			39.9			51.3	
Approach LOS		D			D			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.5	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.96	
Intersection Signal Delay: 45.9	Intersection LOS: D
Intersection Capacity Utilization 94.2%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	324	1131	299	377	402	116	108	1146	608	162	964	139
Future Volume (veh/h)	324	1131	299	377	402	116	108	1146	608	162	964	139
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	341	1191	0	397	423	80	114	1206	0	171	1015	127
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	400	1245		427	1214	541	145	1309		195	1139	483
Arrive On Green	0.13	0.35	0.00	0.14	0.36	0.36	0.05	0.24	0.00	0.12	0.32	0.32
Sat Flow, veh/h	3048	3600	1525	3048	3420	1524	3141	5400	1525	1619	3600	1525
Grp Volume(v), veh/h	341	1191	0	397	423	80	114	1206	0	171	1015	127
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1710	1524	1570	1800	1525	1619	1800	1525
Q Serve(g_s), s	13.0	38.5	0.0	15.3	10.8	4.3	4.3	25.9	0.0	12.4	32.0	7.4
Cycle Q Clear(g_c), s	13.0	38.5	0.0	15.3	10.8	4.3	4.3	25.9	0.0	12.4	32.0	7.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	400	1245		427	1214	541	145	1309		195	1139	483
V/C Ratio(X)	0.85	0.96		0.93	0.35	0.15	0.79	0.92		0.88	0.89	0.26
Avail Cap(c_a), veh/h	530	1254		427	1214	541	145	1328		197	1158	491
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.6	38.1	0.0	50.6	28.3	26.1	56.2	44.0	0.0	51.5	38.7	30.3
Incr Delay (d2), s/veh	10.1	16.0	0.0	26.7	0.2	0.1	24.2	10.6	0.0	32.9	8.8	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.3	18.6	0.0	7.2	4.3	1.5	2.1	12.2	0.0	6.6	14.5	2.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	60.7	54.1	0.0	77.3	28.4	26.3	80.4	54.6	0.0	84.5	47.6	30.6
LnGrp LOS	E	D		E	C	C	F	D		F	D	C
Approach Vol, veh/h		1532	A		900			1320	A		1313	
Approach Delay, s/veh		55.6			49.8			56.8			50.7	
Approach LOS		E			D			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.8	33.4	21.2	45.7	10.0	42.2	20.1	46.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	29.3	16.7	41.5	5.5	38.3	20.7	37.5
Max Q Clear Time (g_c+I1), s	14.4	27.9	17.3	40.5	6.3	34.0	15.0	12.8
Green Ext Time (p_c), s	0.0	0.9	0.0	0.7	0.0	2.5	0.6	2.7

Intersection Summary	
HCM 6th Ctrl Delay	53.6
HCM 6th LOS	D

Notes

Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

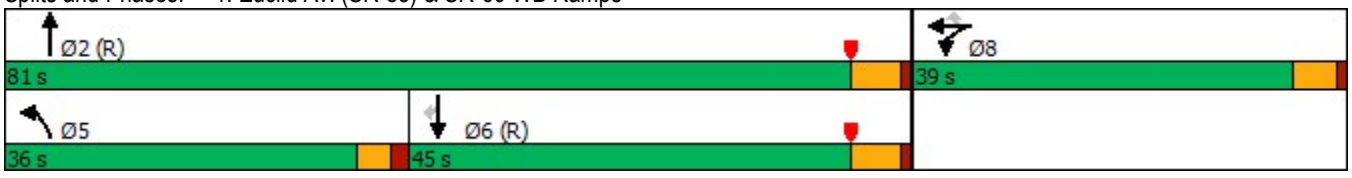
APPENDIX 7.1: HORIZON YEAR (2050) WITHOUT PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

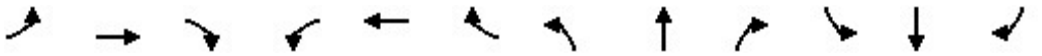
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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	859	8	447	622	1661	1391	426
Future Volume (vph)	859	8	447	622	1661	1391	426
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5	22.5
Total Split (s)	39.0	39.0	39.0	36.0	81.0	45.0	45.0
Total Split (%)	32.5%	32.5%	32.5%	30.0%	67.5%	37.5%	37.5%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5	5.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min
Act Effct Green (s)	34.0	34.0	34.0	31.5	75.5	39.5	39.5
Actuated g/C Ratio	0.28	0.28	0.28	0.26	0.63	0.33	0.33
v/c Ratio	1.01	1.06	0.90	1.41	0.79	1.26	0.63
Control Delay	86.6	98.7	58.7	228.6	19.0	158.8	16.6
Queue Delay	22.8	16.8	0.0	0.0	23.1	0.0	0.0
Total Delay	109.5	115.5	58.7	228.6	42.0	158.8	16.6
LOS	F	F	E	F	D	F	B
Approach Delay		96.0			92.9	125.4	
Approach LOS		F			F	F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 120	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.41	
Intersection Signal Delay: 104.6	Intersection LOS: F
Intersection Capacity Utilization 176.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	859	8	447	622	1661	0	0	1391	426
Future Volume (veh/h)	0	0	0	859	8	447	622	1661	0	0	1391	426
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				1024	0	210	669	1786	0	0	1496	291
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				1025	0	456	475	2271	0	0	1188	530
Arrive On Green				0.28	0.00	0.28	0.52	1.00	0.00	0.00	0.33	0.33
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				1024	0	210	669	1786	0	0	1496	291
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				33.9	0.0	12.9	31.5	0.0	0.0	0.0	39.5	17.8
Cycle Q Clear(g_c), s				33.9	0.0	12.9	31.5	0.0	0.0	0.0	39.5	17.8
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1025	0	456	475	2271	0	0	1188	530
V/C Ratio(X)				1.00	0.00	0.46	1.41	0.79	0.00	0.00	1.26	0.55
Avail Cap(c_a), veh/h				1025	0	456	475	2271	0	0	1188	530
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.09	0.09	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				43.0	0.0	35.4	28.5	0.0	0.0	0.0	40.2	33.0
Incr Delay (d2), s/veh				27.7	0.0	0.3	185.0	0.3	0.0	0.0	123.5	4.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				18.4	0.0	4.9	33.6	0.1	0.0	0.0	37.2	7.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				70.7	0.0	35.7	213.5	0.3	0.0	0.0	163.7	37.0
LnGrp LOS				E	A	D	F	A	A	A	F	D
Approach Vol, veh/h					1234			2455			1787	
Approach Delay, s/veh					64.8			58.4			143.1	
Approach LOS					E			E			F	

Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		81.0			36.0	45.0		39.0				
Change Period (Y+Rc), s		5.5			4.5	5.5		5.0				
Max Green Setting (Gmax), s		75.5			31.5	39.5		34.0				
Max Q Clear Time (g_c+I1), s		2.0			33.5	41.5		35.9				
Green Ext Time (p_c), s		38.4			0.0	0.0		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			87.5									
HCM 6th LOS			F									

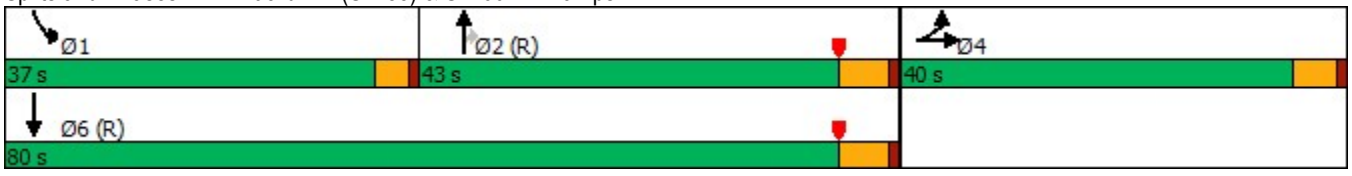
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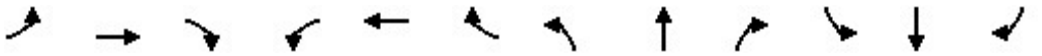
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	539	0	1411	917	452	1517
Future Volume (vph)	539	0	1411	917	452	1517
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	40.0	40.0	43.0	43.0	37.0	80.0
Total Split (%)	33.3%	33.3%	35.8%	35.8%	30.8%	66.7%
Yellow Time (s)	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	35.0	35.0	38.2	38.2	32.3	74.5
Actuated g/C Ratio	0.29	0.29	0.32	0.32	0.27	0.62
v/c Ratio	1.00	2.40	1.27	1.05	0.96	0.70
Control Delay	83.2	655.7	161.8	60.3	62.4	18.4
Queue Delay	39.0	5.9	0.1	0.0	4.8	11.8
Total Delay	122.3	661.5	161.9	60.3	67.2	30.2
LOS	F	F	F	E	E	C
Approach Delay		500.9	121.9			38.7
Approach LOS		F	F			D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 2.40	
Intersection Signal Delay: 198.4	Intersection LOS: F
Intersection Capacity Utilization 176.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	539	0	1089	0	0	0	0	1411	917	452	1517	0
Future Volume (veh/h)	539	0	1089	0	0	0	0	1411	917	452	1517	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	556	0	1044				0	1455	750	466	1564	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	528	0	470				0	1160	503	482	2241	0
Arrive On Green	0.29	0.00	0.29				0.00	0.32	0.32	0.53	1.00	0.00
Sat Flow, veh/h	1810	0	1610				0	3705	1566	1810	3705	0
Grp Volume(v), veh/h	556	0	1044				0	1455	750	466	1564	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1566	1810	1805	0
Q Serve(g_s), s	35.0	0.0	35.0				0.0	38.6	38.6	29.8	0.0	0.0
Cycle Q Clear(g_c), s	35.0	0.0	35.0				0.0	38.6	38.6	29.8	0.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	528	0	470				0	1160	503	482	2241	0
V/C Ratio(X)	1.05	0.00	2.22				0.00	1.25	1.49	0.97	0.70	0.00
Avail Cap(c_a), veh/h	528	0	470				0	1160	503	498	2241	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.24	0.24	0.09	0.09	0.00
Uniform Delay (d), s/veh	42.5	0.0	42.5				0.0	40.7	40.7	27.6	0.0	0.0
Incr Delay (d2), s/veh	54.0	0.0	557.2				0.0	116.2	223.1	6.2	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	22.9	0.0	86.0				0.0	35.2	45.5	9.4	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	96.5	0.0	599.7				0.0	156.9	263.8	33.8	0.2	0.0
LnGrp LOS	F	A	F				A	F	F	C	A	A
Approach Vol, veh/h		1600						2205			2030	
Approach Delay, s/veh		424.9						193.2			7.9	
Approach LOS		F						F			A	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	35.9	44.1		40.0		80.0
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	33.0	37.5		35.0		74.5
Max Q Clear Time (g_c+I1), s	31.8	40.6		37.0		2.0
Green Ext Time (p_c), s	0.1	0.0		0.0		29.8

Intersection Summary		
HCM 6th Ctrl Delay		192.3
HCM 6th LOS		F

Notes

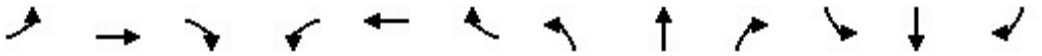
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	115	328	158	450	127	1806	58	216	2173	69
Future Volume (vph)	115	328	158	450	127	1806	58	216	2173	69
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	10.0	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	9.6	29.8	9.6	29.8	9.6	27.4	27.4	9.6	29.4	29.4
Total Split (s)	21.0	34.6	17.4	31.0	23.0	50.6	50.6	17.4	45.0	45.0
Total Split (%)	17.5%	28.8%	14.5%	25.8%	19.2%	42.2%	42.2%	14.5%	37.5%	37.5%
Yellow Time (s)	3.6	4.8	3.6	4.8	3.6	4.4	4.4	3.6	4.4	4.4
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	4.6	5.4	5.4	4.6	5.4	5.4
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	12.2	23.1	12.9	23.7	13.3	45.4	45.4	11.5	43.6	43.6
Actuated g/C Ratio	0.11	0.20	0.11	0.21	0.12	0.40	0.40	0.10	0.38	0.38
v/c Ratio	0.68	0.69	0.89	0.87	0.69	0.86	0.09	0.72	1.08	0.11
Control Delay	69.2	36.9	94.8	53.1	67.8	37.1	0.7	64.3	78.9	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	69.2	36.9	94.8	53.1	67.8	37.1	0.7	64.3	78.9	0.3
LOS	E	D	F	D	E	D	A	E	E	A
Approach Delay		42.7		61.4		38.0			75.4	
Approach LOS		D		E		D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 113.3	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.08	
Intersection Signal Delay: 57.3	Intersection LOS: E
Intersection Capacity Utilization 95.9%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	115	328	198	158	450	188	127	1806	58	216	2173	69
Future Volume (veh/h)	115	328	198	158	450	188	127	1806	58	216	2173	69
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	119	338	101	163	464	101	131	1862	34	223	2240	45
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	144	443	130	189	555	120	157	2327	657	280	2298	649
Arrive On Green	0.09	0.17	0.17	0.12	0.19	0.19	0.10	0.43	0.43	0.09	0.43	0.43
Sat Flow, veh/h	1619	2673	786	1619	2867	620	1619	5400	1524	3048	5400	1524
Grp Volume(v), veh/h	119	226	213	163	290	275	131	1862	34	223	2240	45
Grp Sat Flow(s),veh/h/ln	1619	1800	1659	1619	1800	1686	1619	1800	1524	1524	1800	1524
Q Serve(g_s), s	7.6	12.6	12.9	10.4	16.3	16.5	8.3	31.4	1.4	7.5	42.7	1.8
Cycle Q Clear(g_c), s	7.6	12.6	12.9	10.4	16.3	16.5	8.3	31.4	1.4	7.5	42.7	1.8
Prop In Lane	1.00		0.47	1.00		0.37	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	144	298	275	189	349	326	157	2327	657	280	2298	649
V/C Ratio(X)	0.82	0.76	0.78	0.86	0.83	0.84	0.83	0.80	0.05	0.80	0.97	0.07
Avail Cap(c_a), veh/h	253	494	455	198	432	405	284	2327	657	372	2298	649
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.0	41.7	41.9	45.5	40.7	40.7	46.5	25.9	17.4	46.7	29.6	17.8
Incr Delay (d2), s/veh	4.5	3.9	4.7	27.6	10.9	12.4	4.3	3.0	0.1	6.2	13.7	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	5.7	5.4	5.5	7.9	7.7	3.5	13.2	0.5	3.0	20.0	0.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.4	45.7	46.6	73.1	51.5	53.1	50.8	28.9	17.5	52.9	43.3	18.0
LnGrp LOS	D	D	D	E	D	D	D	C	B	D	D	B
Approach Vol, veh/h		558			728			2027			2508	
Approach Delay, s/veh		47.2			57.0			30.1			43.7	
Approach LOS		D			E			C			D	

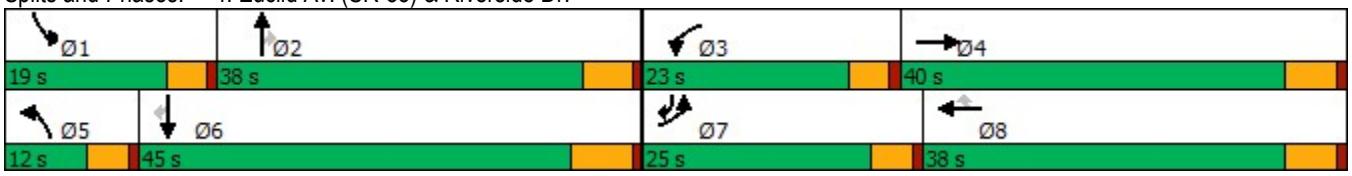
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.2	50.6	16.9	23.2	14.8	50.0	13.9	26.1
Change Period (Y+Rc), s	4.6	5.4	4.6	5.8	4.6	5.4	4.6	5.8
Max Green Setting (Gmax), s	12.8	45.2	12.8	28.8	18.4	39.6	16.4	25.2
Max Q Clear Time (g_c+I1), s	9.5	33.4	12.4	14.9	10.3	44.7	9.6	18.5
Green Ext Time (p_c), s	0.1	8.9	0.0	2.0	0.1	0.0	0.1	1.7

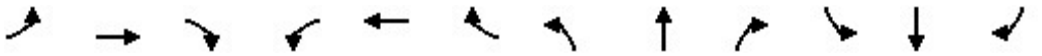
Intersection Summary	
HCM 6th Ctrl Delay	41.0
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	203	811	263	556	118	227	1543	322	267	2056	164
Future Volume (vph)	203	811	263	556	118	227	1543	322	267	2056	164
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	25.0	40.0	23.0	38.0	38.0	12.0	38.0	38.0	19.0	45.0	25.0
Total Split (%)	20.8%	33.3%	19.2%	31.7%	31.7%	10.0%	31.7%	31.7%	15.8%	37.5%	20.8%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	18.2	34.2	18.4	34.4	34.4	7.4	32.6	32.6	14.4	38.5	63.2
Actuated g/C Ratio	0.15	0.28	0.15	0.29	0.29	0.06	0.27	0.27	0.12	0.32	0.53
v/c Ratio	0.84	2.06	1.09	0.58	0.22	2.34	1.69	0.60	1.41	1.91	0.20
Control Delay	78.0	506.8	129.5	40.0	3.1	659.7	346.8	21.8	251.0	440.1	8.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	78.0	506.8	129.5	40.0	3.1	659.7	346.8	21.8	251.0	440.1	8.9
LOS	E	F	F	D	A	F	F	C	F	F	A
Approach Delay		435.4		60.5			330.7			391.5	
Approach LOS		F		E			F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.34	
Intersection Signal Delay: 334.5	Intersection LOS: F
Intersection Capacity Utilization 166.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	203	811	204	263	556	118	227	1543	322	267	2056	164
Future Volume (veh/h)	203	811	204	263	556	118	227	1543	322	267	2056	164
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	207	828	181	268	567	68	232	1574	287	272	2098	112
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	231	403	88	246	997	438	99	921	411	193	1118	717
Arrive On Green	0.14	0.28	0.28	0.15	0.29	0.29	0.06	0.27	0.27	0.12	0.33	0.33
Sat Flow, veh/h	1619	1427	312	1619	3420	1503	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	207	0	1009	268	567	68	232	1574	287	272	2098	112
Grp Sat Flow(s),veh/h/ln	1619	0	1739	1619	1710	1503	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	15.2	0.0	34.2	18.4	17.0	4.1	7.4	32.6	20.5	14.4	39.6	5.1
Cycle Q Clear(g_c), s	15.2	0.0	34.2	18.4	17.0	4.1	7.4	32.6	20.5	14.4	39.6	5.1
Prop In Lane	1.00		0.18	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	231	0	491	246	997	438	99	921	411	193	1118	717
V/C Ratio(X)	0.90	0.00	2.05	1.09	0.57	0.16	2.34	1.71	0.70	1.41	1.88	0.16
Avail Cap(c_a), veh/h	273	0	491	246	997	438	99	921	411	193	1118	717
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.0	0.0	43.5	51.3	36.4	31.8	56.9	44.3	39.8	53.4	40.8	18.4
Incr Delay (d2), s/veh	24.5	0.0	481.5	83.3	0.8	0.2	635.5	324.0	5.2	213.6	397.6	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.6	0.0	79.8	12.9	7.0	1.5	20.4	54.4	8.0	17.2	77.8	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	75.5	0.0	525.0	134.7	37.2	32.0	692.3	368.2	45.0	267.0	438.4	18.5
LnGrp LOS	E	A	F	F	D	C	F	F	D	F	F	B
Approach Vol, veh/h		1216			903			2093			2482	
Approach Delay, s/veh		448.5			65.7			359.8			400.6	
Approach LOS		F			E			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	39.1	23.0	40.0	12.0	46.1	21.9	41.1
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	14.4	* 33	18.4	34.2	7.4	38.5	20.4	32.2
Max Q Clear Time (g_c+I1), s	16.4	34.6	20.4	36.2	9.4	41.6	17.2	19.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.0

Intersection Summary	
HCM 6th Ctrl Delay	351.4
HCM 6th LOS	F

Notes

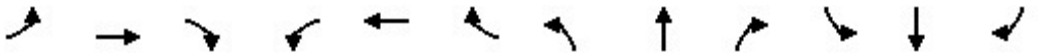
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	143	285	82	131	379	69	1979	213	124	2212	154
Future Volume (vph)	143	285	82	131	379	69	1979	213	124	2212	154
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	52.0	52.0	52.0	52.0	52.0	12.0	52.0	52.0	16.0	56.0	56.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	43.3%	10.0%	43.3%	43.3%	13.3%	46.7%	46.7%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	46.2	46.2	46.2		46.2	7.1	46.9	46.9	11.0	49.5	49.5
Actuated g/C Ratio	0.39	0.39	0.39		0.39	0.06	0.39	0.39	0.09	0.41	0.41
v/c Ratio	0.90	0.43	0.13		1.62	0.75	1.54	0.35	0.87	1.63	0.24
Control Delay	85.1	29.5	5.5		314.3	97.8	275.5	19.4	99.7	314.3	13.1
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	85.1	29.5	5.5		314.3	97.8	275.5	19.4	99.7	314.3	13.1
LOS	F	C	A		F	F	F	B	F	F	B
Approach Delay		41.3			314.3		246.0			285.1	
Approach LOS		D			F		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.7	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.63	
Intersection Signal Delay: 253.3	Intersection LOS: F
Intersection Capacity Utilization 147.6%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	143	285	82	131	379	238	69	1979	213	124	2212	154
Future Volume (veh/h)	143	285	82	131	379	238	69	1979	213	124	2212	154
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	149	297	64	136	395	247	72	2061	182	129	2304	123
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	183	686	581	103	225	136	89	1320	589	152	1452	648
Arrive On Green	0.38	0.38	0.38	0.38	0.38	0.38	0.06	0.39	0.39	0.09	0.42	0.42
Sat Flow, veh/h	716	1800	1525	178	589	357	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	149	297	64	778	0	0	72	2061	182	129	2304	123
Grp Sat Flow(s),veh/h/ln	716	1800	1525	1124	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	14.8	3.3	31.4	0.0	0.0	5.3	46.8	10.1	9.5	51.5	6.1
Cycle Q Clear(g_c), s	46.2	14.8	3.3	46.2	0.0	0.0	5.3	46.8	10.1	9.5	51.5	6.1
Prop In Lane	1.00		1.00	0.17		0.32	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	183	686	581	463	0	0	89	1320	589	152	1452	648
V/C Ratio(X)	0.81	0.43	0.11	1.68	0.00	0.00	0.81	1.56	0.31	0.85	1.59	0.19
Avail Cap(c_a), veh/h	183	686	581	463	0	0	99	1320	589	152	1452	648
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.5	27.8	24.3	43.6	0.0	0.0	56.7	37.2	26.0	54.1	34.9	21.8
Incr Delay (d2), s/veh	23.7	0.4	0.1	315.5	0.0	0.0	31.1	256.4	1.4	32.6	267.4	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	6.2	1.2	54.3	0.0	0.0	2.9	64.9	3.7	5.1	73.3	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	65.2	28.3	24.3	359.1	0.0	0.0	87.7	293.6	27.3	86.7	302.3	22.5
LnGrp LOS	E	C	C	F	A	A	F	F	C	F	F	C
Approach Vol, veh/h		510			778			2315			2556	
Approach Delay, s/veh		38.5			359.1			266.3			278.0	
Approach LOS		D			F			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	16.0	53.3		52.0	11.3	58.0		52.0				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 47		46.2	7.4	49.5		46.2				
Max Q Clear Time (g_c+I1), s	11.5	48.8		48.2	7.3	53.5		48.2				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0				

Intersection Summary		
HCM 6th Ctrl Delay		264.0
HCM 6th LOS		F

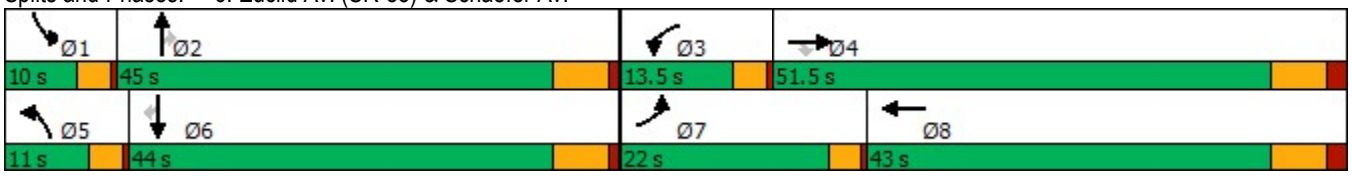
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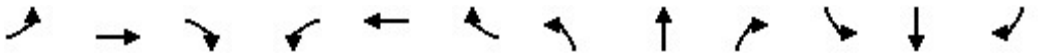
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	425	174	172	2	27	118	1887	85	107	2173	188
Future Volume (vph)	425	174	172	2	27	118	1887	85	107	2173	188
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	22.0	51.5	51.5	13.5	43.0	11.0	45.0	45.0	10.0	44.0	44.0
Total Split (%)	18.3%	42.9%	42.9%	11.3%	35.8%	9.2%	37.5%	37.5%	8.3%	36.7%	36.7%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	19.0	25.4	25.4	10.3	10.7	7.7	40.0	40.0	6.7	39.0	39.0
Actuated g/C Ratio	0.21	0.28	0.28	0.11	0.12	0.08	0.44	0.44	0.07	0.43	0.43
v/c Ratio	1.32	0.36	0.32	0.01	0.18	0.90	1.31	0.12	0.94	1.55	0.27
Control Delay	194.7	27.8	5.4	44.5	30.4	101.7	169.4	1.8	115.9	273.8	9.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	194.7	27.8	5.4	44.5	30.4	101.7	169.4	1.8	115.9	273.8	9.5
LOS	F	C	A	D	C	F	F	A	F	F	A
Approach Delay		114.9			31.1		158.7			246.8	
Approach LOS		F			C		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 91.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.55	
Intersection Signal Delay: 192.0	Intersection LOS: F
Intersection Capacity Utilization 117.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	425	174	172	2	27	9	118	1887	85	107	2173	188
Future Volume (veh/h)	425	174	172	2	27	9	118	1887	85	107	2173	188
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	443	181	142	2	28	6	123	1966	89	111	2264	159
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	337	466	395	9	81	17	136	1499	668	118	1460	651
Arrive On Green	0.21	0.26	0.26	0.01	0.06	0.06	0.08	0.44	0.44	0.07	0.43	0.43
Sat Flow, veh/h	1619	1800	1525	1619	1437	308	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	443	181	142	2	0	34	123	1966	89	111	2264	159
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1745	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	18.5	7.4	6.8	0.1	0.0	1.7	6.7	39.0	3.1	6.1	38.0	5.9
Cycle Q Clear(g_c), s	18.5	7.4	6.8	0.1	0.0	1.7	6.7	39.0	3.1	6.1	38.0	5.9
Prop In Lane	1.00		1.00	1.00		0.18	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	337	466	395	9	0	98	136	1499	668	118	1460	651
V/C Ratio(X)	1.32	0.39	0.36	0.23	0.00	0.35	0.90	1.31	0.13	0.94	1.55	0.24
Avail Cap(c_a), veh/h	337	900	763	182	0	706	136	1499	668	118	1460	651
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.2	27.2	27.0	44.1	0.0	40.4	40.4	25.0	14.9	41.1	25.5	16.3
Incr Delay (d2), s/veh	161.9	0.4	0.4	4.8	0.0	1.6	47.7	145.2	0.1	63.0	251.1	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	21.9	3.0	2.4	0.1	0.0	0.7	4.3	43.4	1.0	4.3	63.8	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	197.2	27.6	27.4	48.9	0.0	42.0	88.0	170.2	15.0	104.0	276.6	16.5
LnGrp LOS	F	C	C	D	A	D	F	F	B	F	F	B
Approach Vol, veh/h		766			36			2178			2534	
Approach Delay, s/veh		125.6			42.4			159.2			252.7	
Approach LOS		F			D			F			F	

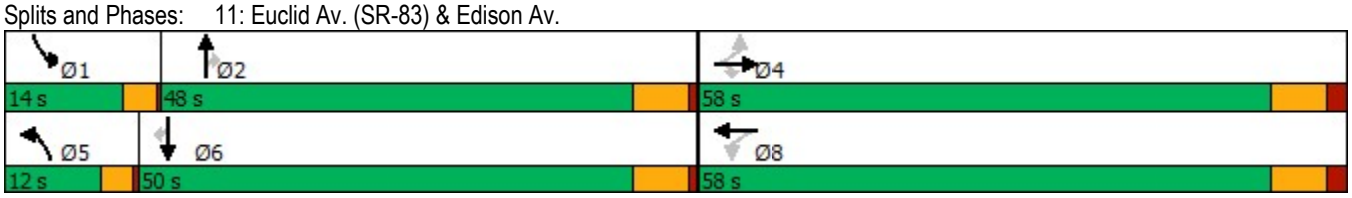
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	45.0	4.0	30.0	11.0	44.0	22.0	12.0
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	6.5	39.0	10.0	44.5	7.5	38.0	18.5	36.0
Max Q Clear Time (g_c+I1), s	8.1	41.0	2.1	9.4	8.7	40.0	20.5	3.7
Green Ext Time (p_c), s	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1

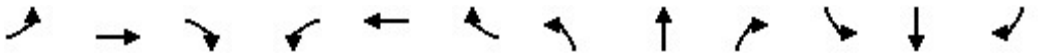
Intersection Summary	
HCM 6th Ctrl Delay	196.8
HCM 6th LOS	F

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	415	850	220	353	877	179	1111	172	478	1676	274
Future Volume (vph)	415	850	220	353	877	179	1111	172	478	1676	274
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	58.0	58.0	58.0	58.0	58.0	12.0	48.0	48.0	14.0	50.0	50.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	10.0%	40.0%	40.0%	11.7%	41.7%	41.7%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	51.0	51.0	51.0	51.0	51.0	8.5	42.0	42.0	10.5	44.0	44.0
Actuated g/C Ratio	0.42	0.42	0.42	0.42	0.42	0.07	0.35	0.35	0.09	0.37	0.37
v/c Ratio	7.64	1.15	0.31	6.50	2.10	0.84	0.96	0.31	3.50	1.38	0.47
Control Delay	3033.2	113.4	9.2	2521.0	524.2	85.2	56.0	18.8	1157.7	207.1	24.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	3033.2	113.4	9.2	2521.0	524.2	85.2	56.0	18.8	1157.7	207.1	24.7
LOS	F	F	A	F	F	F	E	B	F	F	C
Approach Delay		914.2			904.9		55.2			373.8	
Approach LOS		F			F		E			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 7.64	
Intersection Signal Delay: 556.5	Intersection LOS: F
Intersection Capacity Utilization 196.7%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	415	850	220	353	877	622	179	1111	172	478	1676	274
Future Volume (veh/h)	415	850	220	353	877	622	179	1111	172	478	1676	274
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	428	876	191	364	904	631	185	1145	170	493	1728	247
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	60	765	648	60	419	293	222	1197	532	142	1254	559
Arrive On Green	0.43	0.43	0.43	0.43	0.43	0.43	0.07	0.35	0.35	0.09	0.37	0.37
Sat Flow, veh/h	308	1800	1524	481	986	688	3141	3420	1521	1619	3420	1524
Grp Volume(v), veh/h	428	876	191	364	0	1535	185	1145	170	493	1728	247
Grp Sat Flow(s),veh/h/ln	308	1800	1524	481	0	1674	1570	1710	1521	1619	1710	1524
Q Serve(g_s), s	0.0	51.0	9.9	0.0	0.0	51.0	7.0	39.3	9.8	10.5	44.0	14.7
Cycle Q Clear(g_c), s	51.0	51.0	9.9	51.0	0.0	51.0	7.0	39.3	9.8	10.5	44.0	14.7
Prop In Lane	1.00		1.00	1.00		0.41	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	60	765	648	60	0	712	222	1197	532	142	1254	559
V/C Ratio(X)	7.13	1.15	0.29	6.07	0.00	2.16	0.83	0.96	0.32	3.48	1.38	0.44
Avail Cap(c_a), veh/h	60	765	648	60	0	712	222	1197	532	142	1254	559
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	60.0	34.5	22.7	60.0	0.0	34.5	55.0	38.1	28.5	54.8	38.0	28.7
Incr Delay (d2), s/veh	2794.5	80.4	0.3	2315.4	0.0	525.4	21.5	16.7	0.3	1133.6	175.2	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	48.4	37.8	3.5	40.4	0.0	123.2	3.3	18.0	3.4	48.7	47.4	5.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	2854.5	114.9	22.9	2375.4	0.0	559.9	76.5	54.8	28.9	1188.3	213.2	29.3
LnGrp LOS	F	F	C	F	A	F	E	D	C	F	F	C
Approach Vol, veh/h		1495			1899			1500			2468	
Approach Delay, s/veh		887.4			907.9			54.5			389.6	
Approach LOS		F			F			D			F	

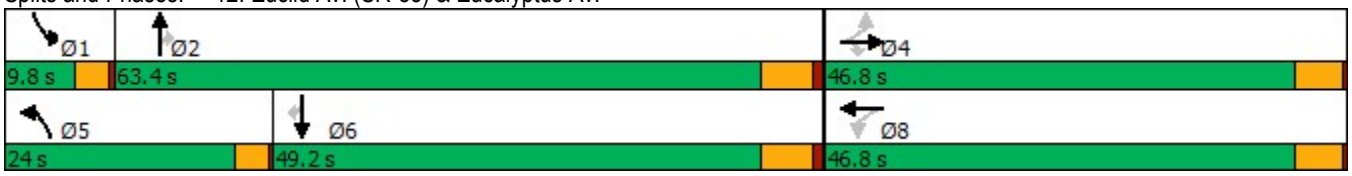
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.0	48.0		58.0	12.0	50.0		58.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	10.5	42.0		51.0	8.5	44.0		51.0				
Max Q Clear Time (g_c+I1), s	12.5	41.3		53.0	9.0	46.0		53.0				
Green Ext Time (p_c), s	0.0	0.5		0.0	0.0	0.0		0.0				

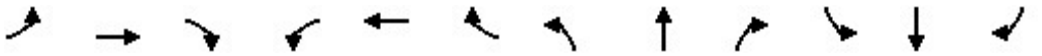
Intersection Summary		
HCM 6th Ctrl Delay		556.1
HCM 6th LOS		F

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	78	175	180	41	174	186	1214	140	288	1824	43
Future Volume (vph)	78	175	180	41	174	186	1214	140	288	1824	43
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	24.0	63.4	63.4	9.8	49.2	49.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	20.0%	52.8%	52.8%	8.2%	41.0%	41.0%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	22.5	22.5	22.5	22.5	22.5	16.2	54.1	54.1	6.4	44.3	44.3
Actuated g/C Ratio	0.23	0.23	0.23	0.23	0.23	0.17	0.56	0.56	0.07	0.46	0.46
v/c Ratio	0.71	0.45	0.39	0.21	0.74	0.75	0.69	0.17	2.92	1.26	0.06
Control Delay	64.8	35.2	6.5	32.2	42.2	57.9	19.5	9.0	909.8	148.4	1.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	64.8	35.2	6.5	32.2	42.2	57.9	19.5	9.0	909.8	148.4	1.7
LOS	E	D	A	C	D	E	B	A	F	F	A
Approach Delay		28.6			40.9		23.1			247.3	
Approach LOS		C			D		C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 97.3	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.92	
Intersection Signal Delay: 133.4	Intersection LOS: F
Intersection Capacity Utilization 102.5%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	78	175	180	41	174	112	186	1214	140	288	1824	43
Future Volume (veh/h)	78	175	180	41	174	112	186	1214	140	288	1824	43
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	84	188	109	44	187	114	200	1305	149	310	1961	34
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	186	492	417	259	286	175	231	1779	794	104	1511	673
Arrive On Green	0.27	0.27	0.27	0.27	0.27	0.27	0.14	0.52	0.52	0.06	0.44	0.44
Sat Flow, veh/h	980	1800	1525	984	1047	638	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	84	188	109	44	0	301	200	1305	149	310	1961	34
Grp Sat Flow(s),veh/h/ln	980	1800	1525	984	0	1685	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	8.2	8.3	5.5	3.7	0.0	15.6	11.9	29.1	5.1	6.3	43.5	1.3
Cycle Q Clear(g_c), s	23.7	8.3	5.5	12.1	0.0	15.6	11.9	29.1	5.1	6.3	43.5	1.3
Prop In Lane	1.00		1.00	1.00		0.38	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	186	492	417	259	0	461	231	1779	794	104	1511	673
V/C Ratio(X)	0.45	0.38	0.26	0.17	0.00	0.65	0.87	0.73	0.19	2.99	1.30	0.05
Avail Cap(c_a), veh/h	336	768	651	409	0	719	337	2004	894	104	1511	673
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.1	29.0	28.0	33.9	0.0	31.6	41.3	18.3	12.6	46.1	27.5	15.7
Incr Delay (d2), s/veh	1.3	0.4	0.2	0.2	0.0	1.2	13.2	1.2	0.1	922.2	139.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	3.5	1.9	0.9	0.0	6.1	5.3	9.9	1.5	28.9	44.4	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	43.4	29.4	28.2	34.1	0.0	32.8	54.5	19.6	12.7	968.3	166.6	15.7
LnGrp LOS	D	C	C	C	A	C	D	B	B	F	F	B
Approach Vol, veh/h		381			345			1654			2305	
Approach Delay, s/veh		32.1			33.0			23.2			272.2	
Approach LOS		C			C			C			F	

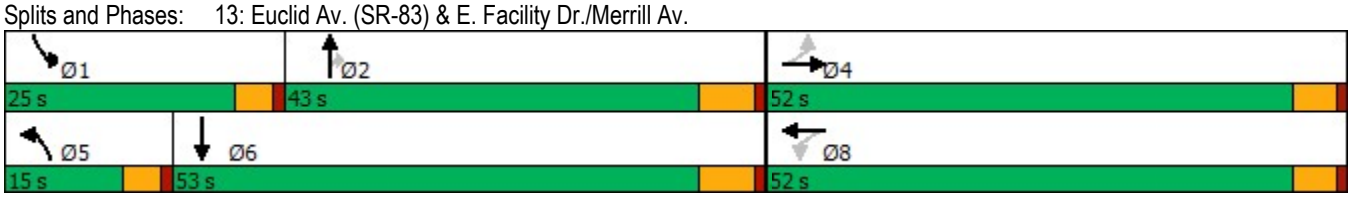
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.8	56.9		31.7	17.5	49.2		31.7				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	6.3	57.7		42.0	20.5	43.5		42.0				
Max Q Clear Time (g_c+I1), s	8.3	31.1		25.7	13.9	45.5		17.6				
Green Ext Time (p_c), s	0.0	10.2		1.2	0.2	0.0		1.5				

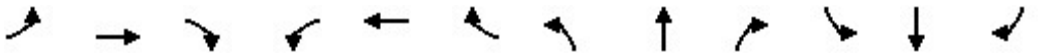
Intersection Summary			
HCM 6th Ctrl Delay		147.1	
HCM 6th LOS		F	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	8	5	405	60	41	1479	629	646	1417
Future Volume (vph)	8	5	405	60	41	1479	629	646	1417
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	52.0	52.0	52.0	52.0	15.0	43.0	43.0	25.0	53.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	12.5%	35.8%	35.8%	20.8%	44.2%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		47.0		47.0	10.1	37.0	37.0	20.5	50.3
Actuated g/C Ratio		0.39		0.39	0.08	0.31	0.31	0.17	0.42
v/c Ratio		0.03		1.43	0.33	1.49	1.16	2.50	1.11
Control Delay		19.3		231.0	58.6	258.5	118.9	707.3	92.6
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		19.3		231.0	58.6	258.5	118.9	707.3	92.6
LOS		B		F	E	F	F	F	F
Approach Delay		19.3		231.0		213.8			279.0
Approach LOS		B		F		F			F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.50	
Intersection Signal Delay: 243.2	Intersection LOS: F
Intersection Capacity Utilization 148.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	5	4	405	60	297	41	1479	629	646	1417	67
Future Volume (veh/h)	8	5	4	405	60	297	41	1479	629	646	1417	67
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	9	5	2	431	64	292	44	1573	654	687	1507	55
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	309	165	61	357	46	211	104	1054	470	277	1397	51
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.06	0.31	0.31	0.17	0.42	0.42
Sat Flow, veh/h	668	422	156	793	118	537	1619	3420	1525	1619	3365	123
Grp Volume(v), veh/h	16	0	0	787	0	0	44	1573	654	687	764	798
Grp Sat Flow(s),veh/h/ln	1247	0	0	1449	0	0	1619	1710	1525	1619	1710	1778
Q Serve(g_s), s	0.0	0.0	0.0	46.3	0.0	0.0	3.1	37.0	37.0	20.5	49.8	49.8
Cycle Q Clear(g_c), s	0.7	0.0	0.0	47.0	0.0	0.0	3.1	37.0	37.0	20.5	49.8	49.8
Prop In Lane	0.56		0.12	0.55		0.37	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	535	0	0	614	0	0	104	1055	470	277	710	738
V/C Ratio(X)	0.03	0.00	0.00	1.28	0.00	0.00	0.42	1.49	1.39	2.48	1.08	1.08
Avail Cap(c_a), veh/h	535	0	0	614	0	0	142	1055	470	277	710	738
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.4	0.0	0.0	38.2	0.0	0.0	54.0	41.5	41.5	49.7	35.1	35.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	139.1	0.0	0.0	1.0	226.3	188.4	678.5	56.3	57.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.0	41.3	0.0	0.0	1.3	47.6	37.6	60.0	29.9	31.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	22.4	0.0	0.0	177.3	0.0	0.0	55.0	267.8	229.9	728.2	91.4	92.4
LnGrp LOS	C	A	A	F	A	A	E	F	F	F	F	F
Approach Vol, veh/h		16			787			2271			2249	
Approach Delay, s/veh		22.4			177.3			252.8			286.3	
Approach LOS		C			F			F			F	

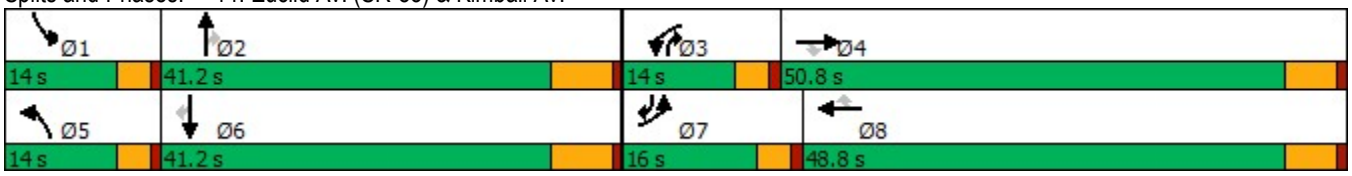
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	25.0	43.0		52.0	12.2	55.8		52.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	20.5	37.0		47.0	10.5	47.0		47.0				
Max Q Clear Time (g_c+I1), s	22.5	39.0		2.7	5.1	51.8		49.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0				

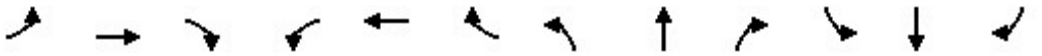
Intersection Summary			
HCM 6th Ctrl Delay		255.1	
HCM 6th LOS		F	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	337	349	67	124	1184	805	91	1201	74	218	998	483
Future Volume (vph)	337	349	67	124	1184	805	91	1201	74	218	998	483
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	47.8	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	16.0	50.8	50.8	14.0	48.8	48.8	14.0	41.2	14.0	14.0	41.2	16.0
Total Split (%)	13.3%	42.3%	42.3%	11.7%	40.7%	40.7%	11.7%	34.3%	11.7%	11.7%	34.3%	13.3%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	4.8	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	5.8	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	12.0	45.0	45.0	10.0	43.0	43.0	10.0	34.7	51.2	10.0	34.7	49.2
Actuated g/C Ratio	0.10	0.38	0.38	0.08	0.36	0.36	0.08	0.29	0.43	0.08	0.29	0.41
v/c Ratio	1.18	0.28	0.11	0.96	1.00	1.22	0.70	1.25	0.11	0.92	1.04	0.76
Control Delay	157.1	27.0	1.9	121.8	63.6	140.7	80.7	159.1	4.9	94.6	81.8	32.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	157.1	27.0	1.9	121.8	63.6	140.7	80.7	159.1	4.9	94.6	81.8	32.4
LOS	F	C	A	F	E	F	F	F	A	F	F	C
Approach Delay		82.9			96.4			145.5			69.4	
Approach LOS		F			F			F			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.25	
Intersection Signal Delay: 98.3	Intersection LOS: F
Intersection Capacity Utilization 112.7%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	337	349	67	124	1184	805	91	1201	74	218	998	483
Future Volume (veh/h)	337	349	67	124	1184	805	91	1201	74	218	998	483
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	347	360	59	128	1221	652	94	1238	62	225	1029	447
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	296	1283	572	135	1226	547	129	989	568	246	1001	593
Arrive On Green	0.10	0.38	0.38	0.08	0.36	0.36	0.08	0.29	0.29	0.08	0.29	0.29
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	347	360	59	128	1221	652	94	1238	62	225	1029	447
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	12.0	8.8	3.0	9.4	42.8	43.0	6.8	34.7	3.2	9.1	35.1	30.8
Cycle Q Clear(g_c), s	12.0	8.8	3.0	9.4	42.8	43.0	6.8	34.7	3.2	9.1	35.1	30.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	296	1283	572	135	1226	547	129	989	568	246	1001	593
V/C Ratio(X)	1.17	0.28	0.10	0.95	1.00	1.19	0.73	1.25	0.11	0.91	1.03	0.75
Avail Cap(c_a), veh/h	296	1283	572	135	1226	547	135	989	568	246	1001	593
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.0	26.2	24.4	54.7	38.4	38.5	53.9	42.6	24.6	54.6	42.4	31.5
Incr Delay (d2), s/veh	108.0	0.1	0.1	61.2	24.8	103.8	14.8	121.7	0.1	34.4	35.7	5.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.8	3.5	1.1	6.0	21.1	30.9	3.2	30.4	1.1	4.4	18.8	11.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	162.0	26.3	24.5	115.9	63.2	142.3	68.7	164.4	24.7	89.0	78.1	37.3
LnGrp LOS	F	C	C	F	E	F	E	F	C	F	F	D
Approach Vol, veh/h		766			2001			1394			1701	
Approach Delay, s/veh		87.6			92.3			151.7			68.8	
Approach LOS		F			F			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	41.2	14.0	50.8	13.6	41.6	16.0	48.8
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	10.0	34.7	10.0	45.0	10.0	34.7	12.0	43.0
Max Q Clear Time (g_c+I1), s	11.1	36.7	11.4	10.8	8.8	37.1	14.0	45.0
Green Ext Time (p_c), s	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	99.0
HCM 6th LOS	F

Intersection	
Intersection Delay, s/veh	19.6
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	21	148	23	28	386	19	36	153	30	21	141	57
Future Vol, veh/h	21	148	23	28	386	19	36	153	30	21	141	57
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	23	163	25	31	424	21	40	168	33	23	155	63
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	13.4	27.4	14.7	14.5
HCM LOS	B	D	B	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	16%	11%	6%	10%
Vol Thru, %	70%	77%	89%	64%
Vol Right, %	14%	12%	4%	26%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	219	192	433	219
LT Vol	36	21	28	21
Through Vol	153	148	386	141
RT Vol	30	23	19	57
Lane Flow Rate	241	211	476	241
Geometry Grp	1	1	1	1
Degree of Util (X)	0.439	0.378	0.785	0.433
Departure Headway (Hd)	6.561	6.453	5.94	6.481
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	546	555	609	554
Service Time	4.627	4.522	3.992	4.547
HCM Lane V/C Ratio	0.441	0.38	0.782	0.435
HCM Control Delay	14.7	13.4	27.4	14.5
HCM Lane LOS	B	B	D	B
HCM 95th-tile Q	2.2	1.8	7.5	2.2

Intersection	
Intersection Delay, s/veh	1350.2
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	60	1229	137	21	1543	36	163	207	38	12	147	59
Future Vol, veh/h	60	1229	137	21	1543	36	163	207	38	12	147	59
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	72	1481	165	25	1859	43	196	249	46	14	177	71
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	1472.4	1706.9	195.2	95.2
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	40%	4%	1%	6%
Vol Thru, %	51%	86%	96%	67%
Vol Right, %	9%	10%	2%	27%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	408	1426	1600	218
LT Vol	163	60	21	12
Through Vol	207	1229	1543	147
RT Vol	38	137	36	59
Lane Flow Rate	492	1718	1928	263
Geometry Grp	1	1	1	1
Degree of Util (X)	1.203	4.171	4.7	0.689
Departure Headway (Hd)	23.915	18.501	17.247	35.765
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	157	223	231	105
Service Time	21.915	16.501	15.247	33.765
HCM Lane V/C Ratio	3.134	7.704	8.346	2.505
HCM Control Delay	195.2	1472.4	1706.9	95.2
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	10.4	80.9	100.2	3.5

Intersection	
Intersection Delay, s/veh	243
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	48	128	41	51	311	64	54	618	23	58	516	56
Future Vol, veh/h	48	128	41	51	311	64	54	618	23	58	516	56
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	50	133	43	53	324	67	56	644	24	60	538	58
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	34.3	94.7	358.4	287.9
HCM LOS	D	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	8%	22%	12%	9%
Vol Thru, %	89%	59%	73%	82%
Vol Right, %	3%	19%	15%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	695	217	426	630
LT Vol	54	48	51	58
Through Vol	618	128	311	516
RT Vol	23	41	64	56
Lane Flow Rate	724	226	444	656
Geometry Grp	1	1	1	1
Degree of Util (X)	1.718	0.596	1.034	1.552
Departure Headway (Hd)	9.976	13.365	11.264	10.298
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	369	274	328	361
Service Time	7.976	11.365	9.264	8.298
HCM Lane V/C Ratio	1.962	0.825	1.354	1.817
HCM Control Delay	358.4	34.3	94.7	287.9
HCM Lane LOS	F	D	F	F
HCM 95th-tile Q	38.4	3.5	11.8	30.7

Intersection	
Intersection Delay, s/veh	1615.2
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	224	1337	444	99	1482	103	159	385	22	62	518	85
Future Vol, veh/h	224	1337	444	99	1482	103	159	385	22	62	518	85
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	238	1422	472	105	1577	110	169	410	23	66	551	90
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	2155.9	1781.3	459.4	547.9
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	28%	11%	6%	9%
Vol Thru, %	68%	67%	88%	78%
Vol Right, %	4%	22%	6%	13%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	566	2005	1684	665
LT Vol	159	224	99	62
Through Vol	385	1337	1482	518
RT Vol	22	444	103	85
Lane Flow Rate	602	2133	1791	707
Geometry Grp	1	1	1	1
Degree of Util (X)	1.611	5.621	4.763	1.875
Departure Headway (Hd)	63.741	33.476	38.062	55.506
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	66	149	125	78
Service Time	61.741	31.476	36.062	53.506
HCM Lane V/C Ratio	9.121	14.315	14.328	9.064
HCM Control Delay	459.4	2155.9	1781.3	547.9
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	8.4	65.6	48	11.2

Intersection	
Intersection Delay, s/veh	1922.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	59	1450	85	285	2119	157	52	173	105	204	274	47
Future Vol, veh/h	59	1450	85	285	2119	157	52	173	105	204	274	47
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	61	1510	89	297	2207	164	54	180	109	213	285	49
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	1552	2707.7	183.5	313.2
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	16%	4%	11%	39%
Vol Thru, %	52%	91%	83%	52%
Vol Right, %	32%	5%	6%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	330	1594	2561	525
LT Vol	52	59	285	204
Through Vol	173	1450	2119	274
RT Vol	105	85	157	47
Lane Flow Rate	344	1660	2668	547
Geometry Grp	1	1	1	1
Degree of Util (X)	0.901	4.297	6.911	1.422
Departure Headway (Hd)	53.65	28.763	20.748	36.082
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	72	149	213	109
Service Time	51.65	26.763	18.748	34.082
HCM Lane V/C Ratio	4.778	11.141	12.526	5.018
HCM Control Delay	183.5	1552	2707.7	313.2
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	4.4	55.2	131.6	10.4

Intersection	
Int Delay, s/veh	3.4

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	35	1485	57	301	2118	41	77	164	121	64	92	15
Future Vol, veh/h	35	1485	57	301	2118	41	77	164	121	64	92	15
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	38	1614	62	327	2302	45	84	178	132	70	100	16

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2347	0	0	1676	0	0	4758	4722	1645	4855	4731	2325
Stage 1	-	-	-	-	-	-	1721	1721	-	2979	2979	-
Stage 2	-	-	-	-	-	-	3037	3001	-	1876	1752	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	213	-	-	388	-	-	0	~ 1	~ 124	0	~ 1	48
Stage 1	-	-	-	-	-	-	115	~ 146	-	~ 20	~ 33	-
Stage 2	-	-	-	-	-	-	~ 19	~ 32	-	93	141	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	213	-	-	388	-	-	-	0	~ 124	-	0	48
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	0	-	-	0	-
Stage 1	-	-	-	-	-	-	115	0	-	~ 20	~ 33	-
Stage 2	-	-	-	-	-	-	-	~ 32	-	-	0	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.6	5.9		
HCM LOS			-	-

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	213	-	-	388	-	-	-
HCM Lane V/C Ratio	-	0.179	-	-	0.843	-	-	-
HCM Control Delay (s)	-	25.5	0	-	48	0	-	-
HCM Lane LOS	-	D	A	-	E	A	-	-
HCM 95th %tile Q(veh)	-	0.6	-	-	7.9	-	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	5.9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	37	1605	61	318	2094	42	82	182	139	64	92	14
Future Vol, veh/h	37	1605	61	318	2094	42	82	182	139	64	92	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	40	1745	66	346	2276	46	89	198	151	70	100	15

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2322	0	0	1811	0	0	4907	4872	1778	5024	4882	2299
Stage 1	-	-	-	-	-	-	1858	1858	-	2991	2991	-
Stage 2	-	-	-	-	-	-	3049	3014	-	2033	1891	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	218	-	-	~ 344	-	-	0	~ 1	~ 103	0	~ 1	50
Stage 1	-	-	-	-	-	-	95	~ 125	-	~ 20	~ 32	-
Stage 2	-	-	-	-	-	-	~ 18	~ 31	-	75	120	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	218	-	-	~ 344	-	-	-	0	~ 103	-	0	50
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	0	-	-	0	-
Stage 1	-	-	-	-	-	-	95	~ 125	-	~ 20	0	-
Stage 2	-	-	-	-	-	-	-	0	-	~ 20	120	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.5	11.1		
HCM LOS			-	-

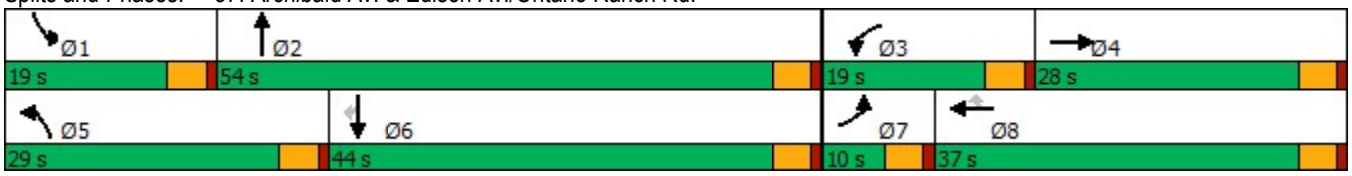
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	218	-	-	~ 344	-	-	-
HCM Lane V/C Ratio	-	0.184	-	-	1.005	-	-	-
HCM Control Delay (s)	-	25.2	0	-	85.3	0	-	-
HCM Lane LOS	-	D	A	-	F	A	-	-
HCM 95th %tile Q(veh)	-	0.7	-	-	11.5	-	-	-

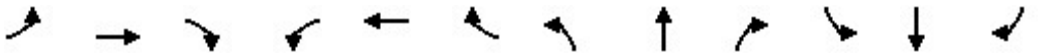
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	98	672	194	603	1175	132	496	1386	933	169	957	281
Future Volume (vph)	98	672	194	603	1175	132	496	1386	933	169	957	281
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	44.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	36.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	5.5	23.5	120.0	14.5	32.5	32.5	24.5	49.5	120.0	14.5	39.5	39.5
Actuated g/C Ratio	0.05	0.20	1.00	0.12	0.27	0.27	0.20	0.41	1.00	0.12	0.33	0.33
v/c Ratio	0.78	1.05	0.14	1.81	2.65	0.29	1.66	1.03	0.68	0.95	0.89	0.51
Control Delay	90.8	93.5	0.2	404.6	769.1	8.2	340.4	65.3	2.5	106.4	48.6	16.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	90.8	93.5	0.2	404.6	769.1	8.2	340.4	65.3	2.5	106.4	48.6	16.4
LOS	F	F	A	F	F	A	F	E	A	F	D	B
Approach Delay		74.5			601.4			92.9			49.1	
Approach LOS		E			F			F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.65	
Intersection Signal Delay: 218.6	Intersection LOS: F
Intersection Capacity Utilization 143.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	98	672	194	603	1175	132	496	1386	933	169	957	281
Future Volume (veh/h)	98	672	194	603	1175	132	496	1386	933	169	957	281
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	108	738	0	663	1291	122	545	1523	0	186	1052	298
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	140	705		368	488	408	331	1485		196	1185	491
Arrive On Green	0.05	0.20	0.00	0.12	0.27	0.27	0.20	0.41	0.00	0.12	0.33	0.33
Sat Flow, veh/h	3048	3600	1525	3048	1800	1506	1619	3600	1525	1619	3600	1491
Grp Volume(v), veh/h	108	738	0	663	1291	122	545	1523	0	186	1052	298
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1506	1619	1800	1525	1619	1800	1491
Q Serve(g_s), s	4.2	23.5	0.0	14.5	32.5	7.7	24.5	49.5	0.0	13.7	33.2	20.1
Cycle Q Clear(g_c), s	4.2	23.5	0.0	14.5	32.5	7.7	24.5	49.5	0.0	13.7	33.2	20.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	140	705		368	488	408	331	1485		196	1185	491
V/C Ratio(X)	0.77	1.05		1.80	2.65	0.30	1.65	1.03		0.95	0.89	0.61
Avail Cap(c_a), veh/h	140	705		368	488	408	331	1485		196	1185	491
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	56.6	48.3	0.0	52.8	43.8	34.7	47.7	35.2	0.0	52.4	38.1	33.7
Incr Delay (d2), s/veh	23.1	46.8	0.0	370.9	747.6	0.4	305.2	30.1	0.0	50.2	8.5	2.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	14.7	0.0	24.3	114.9	2.8	37.4	25.9	0.0	8.0	15.0	7.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	79.7	95.0	0.0	423.6	791.3	35.1	352.9	65.4	0.0	102.6	46.6	35.9
LnGrp LOS	E	F		F	F	D	F	F		F	D	D
Approach Vol, veh/h		846	A		2076			2068	A		1536	
Approach Delay, s/veh		93.1			629.4			141.1			51.3	
Approach LOS		F			F			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	54.0	19.0	28.0	29.0	44.0	10.0	37.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	15.7	51.5	16.5	25.5	26.5	35.2	6.2	34.5
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	269.1
HCM 6th LOS	F

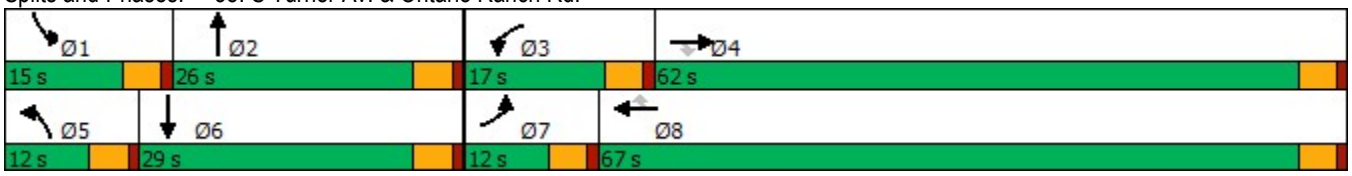
Notes

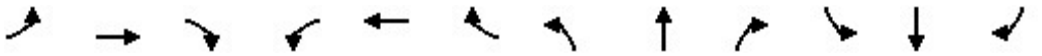
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	141	1564	18	63	1894	50	44	157	215	86
Future Volume (vph)	141	1564	18	63	1894	50	44	157	215	86
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	26.0	15.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	21.7%	12.5%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.5	62.7	62.7	9.6	62.6	62.6	7.0	17.7	10.5	23.3
Actuated g/C Ratio	0.06	0.54	0.54	0.08	0.54	0.54	0.06	0.15	0.09	0.20
v/c Ratio	1.35	0.89	0.02	0.47	1.08	0.06	0.45	0.76	1.48	0.63
Control Delay	247.6	33.0	0.1	61.7	74.4	0.8	67.3	62.6	280.1	40.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	247.6	33.0	0.1	61.7	74.4	0.8	67.3	62.6	280.1	40.8
LOS	F	C	A	E	E	A	E	E	F	D
Approach Delay		50.2			72.2			63.5		158.5
Approach LOS		D			E			E		F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.3	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.48	
Intersection Signal Delay: 71.7	Intersection LOS: E
Intersection Capacity Utilization 97.8%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	141	1564	18	63	1894	50	44	157	41	215	86	136
Future Volume (veh/h)	141	1564	18	63	1894	50	44	157	41	215	86	136
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	157	1738	20	70	2104	56	49	174	46	239	96	151
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	119	2027	904	91	1971	879	63	202	53	166	130	205
Arrive On Green	0.07	0.56	0.56	0.05	0.55	0.55	0.04	0.14	0.14	0.09	0.20	0.20
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	1448	383	1810	665	1046
Grp Volume(v), veh/h	157	1738	20	70	2104	56	49	0	220	239	0	247
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1831	1810	0	1712
Q Serve(g_s), s	7.5	46.6	0.6	4.4	62.5	1.9	3.1	0.0	13.5	10.5	0.0	15.5
Cycle Q Clear(g_c), s	7.5	46.6	0.6	4.4	62.5	1.9	3.1	0.0	13.5	10.5	0.0	15.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.21	1.00		0.61
Lane Grp Cap(c), veh/h	119	2027	904	91	1971	879	63	0	255	166	0	336
V/C Ratio(X)	1.32	0.86	0.02	0.77	1.07	0.06	0.77	0.00	0.86	1.44	0.00	0.74
Avail Cap(c_a), veh/h	119	2027	904	198	1971	879	119	0	344	166	0	366
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	53.5	21.2	11.1	53.7	26.0	12.2	54.8	0.0	48.2	52.0	0.0	43.2
Incr Delay (d2), s/veh	192.8	3.9	0.0	12.9	41.0	0.0	17.7	0.0	15.3	228.6	0.0	6.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.7	18.5	0.2	2.3	34.8	0.6	1.7	0.0	7.0	15.2	0.0	7.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	246.3	25.1	11.2	66.6	67.0	12.2	72.4	0.0	63.5	280.6	0.0	50.1
LnGrp LOS	F	C	B	E	F	B	E	A	E	F	A	D
Approach Vol, veh/h		1915			2230			269			486	
Approach Delay, s/veh		43.1			65.6			65.1			163.5	
Approach LOS		D			E			E			F	

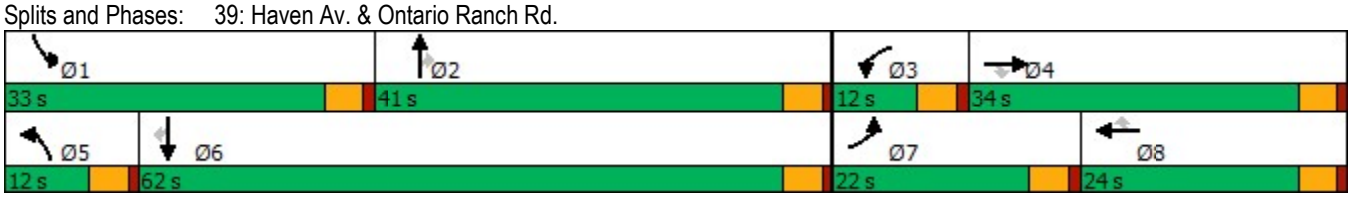
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	20.5	10.2	68.8	8.5	26.9	12.0	67.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	10.5	21.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	12.5	15.5	6.4	48.6	5.1	17.5	9.5	64.5
Green Ext Time (p_c), s	0.0	0.5	0.1	6.8	0.0	0.7	0.0	0.0

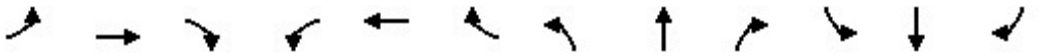
Intersection Summary	
HCM 6th Ctrl Delay	66.5
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	253	1605	51	107	1369	183	101	350	175	446	437	217
Future Volume (vph)	253	1605	51	107	1369	183	101	350	175	446	437	217
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	22.0	34.0	34.0	12.0	24.0	24.0	12.0	41.0	41.0	33.0	62.0	62.0
Total Split (%)	18.3%	28.3%	28.3%	10.0%	20.0%	20.0%	10.0%	34.2%	34.2%	27.5%	51.7%	51.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	17.6	29.7	29.7	7.4	19.6	19.6	7.5	28.1	28.1	28.6	49.2	49.2
Actuated g/C Ratio	0.16	0.27	0.27	0.07	0.18	0.18	0.07	0.25	0.25	0.26	0.44	0.44
v/c Ratio	1.08	1.32	0.11	0.59	1.36	0.46	1.01	0.83	0.37	1.17	0.59	0.30
Control Delay	124.1	185.0	0.5	65.3	204.5	9.9	143.0	55.8	7.7	135.8	27.1	3.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	124.1	185.0	0.5	65.3	204.5	9.9	143.0	55.8	7.7	135.8	27.1	3.3
LOS	F	F	A	E	F	A	F	E	A	F	C	A
Approach Delay		172.0			174.1			56.5			66.5	
Approach LOS		F			F			E			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 111.9	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.36	
Intersection Signal Delay: 137.1	Intersection LOS: F
Intersection Capacity Utilization 99.0%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	253	1605	51	107	1369	183	101	350	175	446	437	217
Future Volume (veh/h)	253	1605	51	107	1369	183	101	350	175	446	437	217
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	272	1726	44	115	1472	145	109	376	137	480	470	210
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	259	1389	431	163	1102	272	111	428	362	421	773	653
Arrive On Green	0.16	0.28	0.28	0.06	0.18	0.18	0.07	0.24	0.24	0.26	0.43	0.43
Sat Flow, veh/h	1619	4914	1524	2956	6192	1525	1619	1800	1523	1619	1800	1520
Grp Volume(v), veh/h	272	1726	44	115	1472	145	109	376	137	480	470	210
Grp Sat Flow(s),veh/h/ln	1619	1638	1524	1478	1548	1525	1619	1800	1523	1619	1800	1520
Q Serve(g_s), s	17.5	31.0	2.3	4.2	19.5	9.5	7.4	22.0	8.3	28.5	22.1	10.0
Cycle Q Clear(g_c), s	17.5	31.0	2.3	4.2	19.5	9.5	7.4	22.0	8.3	28.5	22.1	10.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	259	1389	431	163	1102	272	111	428	362	421	773	653
V/C Ratio(X)	1.05	1.24	0.10	0.71	1.34	0.53	0.98	0.88	0.38	1.14	0.61	0.32
Avail Cap(c_a), veh/h	259	1389	431	202	1102	272	111	600	508	421	945	798
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.0	39.3	29.0	50.9	45.0	40.9	51.0	40.2	35.0	40.5	24.1	20.7
Incr Delay (d2), s/veh	70.2	115.5	0.1	8.1	157.2	2.0	80.0	10.6	0.7	87.8	0.8	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.7	26.5	0.8	1.7	19.1	3.5	5.4	10.6	3.0	21.1	8.9	3.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	116.2	154.8	29.1	59.0	202.3	42.9	131.0	50.8	35.6	128.3	24.9	21.0
LnGrp LOS	F	F	C	E	F	D	F	D	D	F	C	C
Approach Vol, veh/h		2042			1732			622			1160	
Approach Delay, s/veh		146.9			179.4			61.5			67.0	
Approach LOS		F			F			E			E	

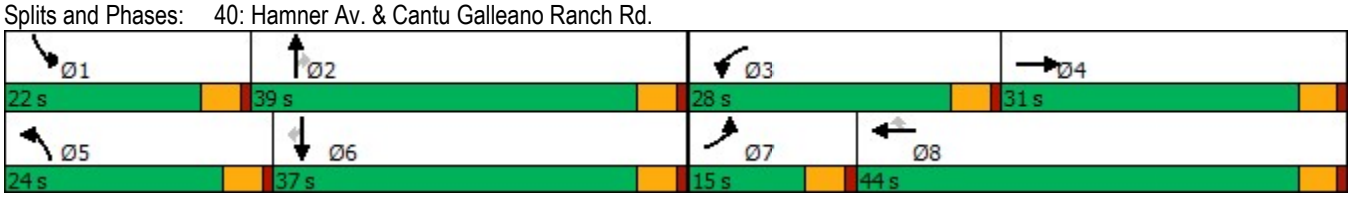
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	33.0	30.6	10.5	35.5	12.0	51.6	22.0	24.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	36.5	7.5	29.5	7.5	57.5	17.5	19.5
Max Q Clear Time (g_c+I1), s	30.5	24.0	6.2	33.0	9.4	24.1	19.5	21.5
Green Ext Time (p_c), s	0.0	2.0	0.0	0.0	0.0	3.6	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	130.8
HCM 6th LOS	F

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	835	1637	291	1504	379	309	794	376	377	225	511
Future Volume (vph)	835	1637	291	1504	379	309	794	376	377	225	511
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	28.0	44.0	44.0	24.0	39.0	39.0	22.0	37.0	37.0
Total Split (%)	12.5%	25.8%	23.3%	36.7%	36.7%	20.0%	32.5%	32.5%	18.3%	30.8%	30.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	10.5	35.1	15.1	39.7	39.7	15.5	28.7	28.7	16.2	29.5	29.5
Actuated g/C Ratio	0.09	0.31	0.13	0.35	0.35	0.14	0.25	0.25	0.14	0.26	0.26
v/c Ratio	2.68	0.90	0.65	1.24	0.55	0.67	0.63	0.62	0.78	0.25	0.93
Control Delay	783.1	45.4	53.9	147.9	15.4	54.4	39.7	13.2	59.4	34.0	49.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	783.1	45.4	53.9	147.9	15.4	54.4	39.7	13.2	59.4	34.0	49.9
LOS	F	D	D	F	B	D	D	B	E	C	D
Approach Delay		284.9		112.2			36.0			49.9	
Approach LOS		F		F			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 113.2	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.68	
Intersection Signal Delay: 147.9	Intersection LOS: F
Intersection Capacity Utilization 106.5%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	835	1637	101	291	1504	379	309	794	376	377	225	511
Future Volume (veh/h)	835	1637	101	291	1504	379	309	794	376	377	225	511
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	870	1705	49	303	1567	329	322	827	309	393	234	491
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	325	2189	63	381	1259	561	396	1394	433	460	1036	462
Arrive On Green	0.09	0.33	0.33	0.11	0.35	0.35	0.11	0.27	0.27	0.13	0.29	0.29
Sat Flow, veh/h	3510	6579	189	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	870	1270	484	303	1567	329	322	827	309	393	234	491
Grp Sat Flow(s),veh/h/ln	1755	1634	1866	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	10.5	26.4	26.4	9.5	39.5	18.9	10.1	15.7	19.7	12.4	5.6	32.5
Cycle Q Clear(g_c), s	10.5	26.4	26.4	9.5	39.5	18.9	10.1	15.7	19.7	12.4	5.6	32.5
Prop In Lane	1.00		0.10	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	325	1631	621	381	1259	561	396	1394	433	460	1036	462
V/C Ratio(X)	2.67	0.78	0.78	0.80	1.24	0.59	0.81	0.59	0.71	0.85	0.23	1.06
Avail Cap(c_a), veh/h	325	1631	621	728	1259	561	604	1580	490	542	1036	462
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.4	34.0	34.0	49.3	36.9	30.2	49.1	36.0	37.5	48.2	30.8	40.4
Incr Delay (d2), s/veh	762.0	2.5	6.3	3.8	117.1	1.6	5.0	0.5	4.2	11.1	0.1	59.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	38.8	10.1	12.2	4.2	36.4	7.1	4.5	6.4	7.8	5.9	2.3	19.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	813.4	36.5	40.3	53.1	153.9	31.8	54.1	36.5	41.7	59.3	30.9	100.0
LnGrp LOS	F	D	D	D	F	C	D	D	D	E	C	F
Approach Vol, veh/h		2624			2199			1458			1118	
Approach Delay, s/veh		294.8			121.8			41.5			71.2	
Approach LOS		F			F			D			E	

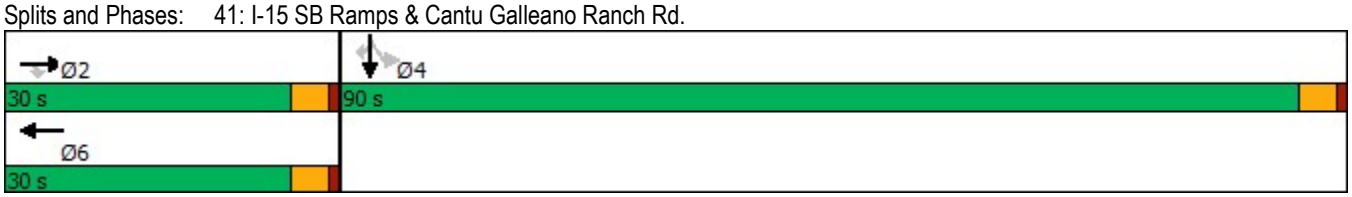
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.3	34.9	16.8	42.2	17.3	37.0	15.0	44.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	34.5	23.5	26.5	19.5	32.5	10.5	39.5
Max Q Clear Time (g_c+I1), s	14.4	21.7	11.5	28.4	12.1	34.5	12.5	41.5
Green Ext Time (p_c), s	0.4	5.0	0.8	0.0	0.6	0.0	0.0	0.0

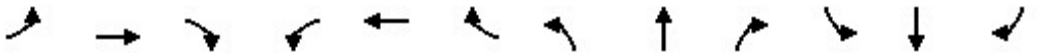
Intersection Summary	
HCM 6th Ctrl Delay	159.7
HCM 6th LOS	F

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	1564	373	867	430	322	0	1824
Future Volume (vph)	1564	373	867	430	322	0	1824
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	30.0	30.0	30.0		90.0	90.0	90.0
Total Split (%)	25.0%	25.0%	25.0%		75.0%	75.0%	75.0%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	25.5	25.5	25.5	118.4	83.9	83.9	83.9
Actuated g/C Ratio	0.22	0.22	0.22	1.00	0.71	0.71	0.71
v/c Ratio	1.54	0.73	1.22	0.17	0.26	0.97	0.94
Control Delay	280.2	23.0	152.8	0.1	6.8	38.6	31.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	280.2	23.0	152.8	0.1	6.8	38.6	31.8
LOS	F	C	F	A	A	D	C
Approach Delay	230.6		102.2			31.4	
Approach LOS	F		F			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.4	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.54	
Intersection Signal Delay: 120.2	Intersection LOS: F
Intersection Capacity Utilization 106.8%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	1564	373	0	867	430	0	0	0	322	0	1824
Future Volume (veh/h)	0	1564	373	0	867	430	0	0	0	322	0	1824
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	1719	0	0	953	0				236	0	1801
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1569		0	1092					1069	0	1902
Arrive On Green	0.00	0.30	0.00	0.00	0.30	0.00				0.89	0.00	0.89
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	1719	0	0	953	0				236	0	1801
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	25.5	0.0	0.0	21.1	0.0				1.6	0.0	33.4
Cycle Q Clear(g_c), s	0.0	25.5	0.0	0.0	21.1	0.0				1.6	0.0	33.4
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1569		0	1092					1069	0	1902
V/C Ratio(X)	0.00	1.10		0.00	0.87					0.22	0.00	0.95
Avail Cap(c_a), veh/h	0	1569		0	1092					1836	0	3267
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.50	1.50	1.50
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	29.4	0.0	0.0	27.9	0.0				2.1	0.0	3.9
Incr Delay (d2), s/veh	0.0	53.5	0.0	0.0	7.9	0.0				0.1	0.0	4.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	17.0	0.0	0.0	9.2	0.0				0.4	0.0	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	82.9	0.0	0.0	35.8	0.0				2.2	0.0	8.1
LnGrp LOS	A	F		A	D					A	A	A
Approach Vol, veh/h		1719	A		953	A					2037	
Approach Delay, s/veh		82.9			35.8						7.4	
Approach LOS		F			D						A	

Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		30.0		54.3		30.0						
Change Period (Y+Rc), s		4.5		4.5		4.5						
Max Green Setting (Gmax), s		25.5		85.5		25.5						
Max Q Clear Time (g_c+I1), s		27.5		35.4		23.1						
Green Ext Time (p_c), s		0.0		14.4		1.3						

Intersection Summary		
HCM 6th Ctrl Delay		40.7
HCM 6th LOS		D

Notes

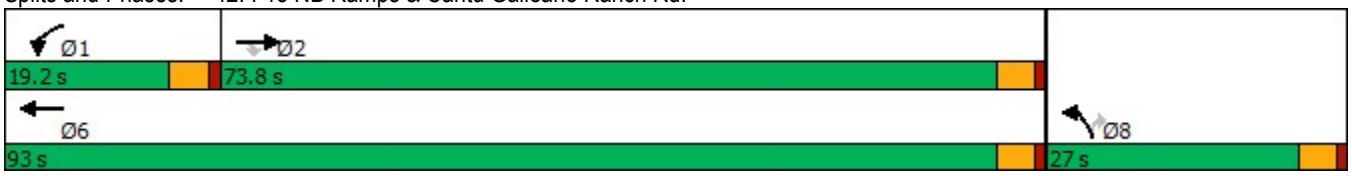
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	576	1169	281	531	649	544
Future Volume (vph)	576	1169	281	531	649	544
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	73.8	73.8	19.2	93.0	27.0	27.0
Total Split (%)	61.5%	61.5%	16.0%	77.5%	22.5%	22.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	66.5	66.5	13.4	84.4	22.6	22.6
Actuated g/C Ratio	0.57	0.57	0.12	0.73	0.19	0.19
v/c Ratio	0.18	0.98	0.69	0.13	1.17	0.61
Control Delay	12.0	33.4	59.1	4.8	133.2	8.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	12.0	33.4	59.1	4.8	133.2	8.9
LOS	B	C	E	A	F	A
Approach Delay	26.3			23.6	94.1	
Approach LOS	C			C	F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.17	
Intersection Signal Delay: 47.3	Intersection LOS: D
Intersection Capacity Utilization 87.9%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	576	1169	281	531	649	544
Future Volume (veh/h)	576	1169	281	531	649	544
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	588	627	287	542	662	300
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	2646	747	404	3639	854	380
Arrive On Green	0.46	0.46	0.11	0.64	0.24	0.24
Sat Flow, veh/h	5700	1610	3619	5700	3619	1610
Grp Volume(v), veh/h	588	627	287	542	662	300
Grp Sat Flow(s),veh/h/ln	1900	1610	1810	1900	1810	1610
Q Serve(g_s), s	4.4	24.5	5.5	2.7	12.3	12.5
Cycle Q Clear(g_c), s	4.4	24.5	5.5	2.7	12.3	12.5
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	2646	747	404	3639	854	380
V/C Ratio(X)	0.22	0.84	0.71	0.15	0.78	0.79
Avail Cap(c_a), veh/h	5512	1557	742	7039	1136	506
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.5	16.8	30.7	5.2	25.6	25.7
Incr Delay (d2), s/veh	0.0	2.6	2.3	0.0	2.5	6.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	7.4	2.3	0.6	5.0	4.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	11.5	19.5	33.1	5.2	28.1	31.8
LnGrp LOS	B	B	C	A	C	C
Approach Vol, veh/h	1215			829	962	
Approach Delay, s/veh	15.6			14.8	29.2	
Approach LOS	B			B	C	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	12.5	37.8				50.3	21.4
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	14.7	69.3				88.5	22.5
Max Q Clear Time (g_c+I1), s	7.5	26.5				4.7	14.5
Green Ext Time (p_c), s	0.5	6.8				3.5	2.4

Intersection Summary	
HCM 6th Ctrl Delay	19.8
HCM 6th LOS	B

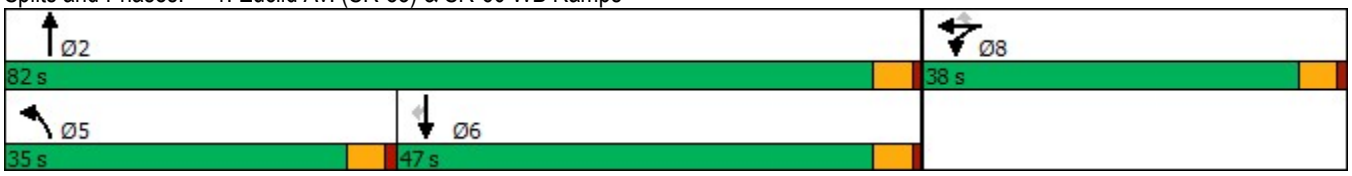
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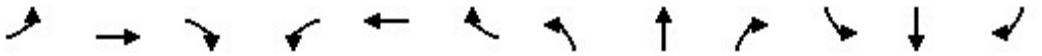
User approved volume balancing among the lanes for turning movement.

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	845	7	421	1000	1389	1710	532
Future Volume (vph)	845	7	421	1000	1389	1710	532
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	38.0	38.0	38.0	35.0	82.0	47.0	47.0
Total Split (%)	31.7%	31.7%	31.7%	29.2%	68.3%	39.2%	39.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	Min	Min	Min
Act Effct Green (s)	33.5	33.5	33.5	30.5	77.5	42.5	42.5
Actuated g/C Ratio	0.28	0.28	0.28	0.25	0.65	0.35	0.35
v/c Ratio	0.96	0.99	0.82	2.23	0.61	1.37	0.71
Control Delay	74.7	83.8	50.1	583.1	13.8	202.1	19.9
Queue Delay	0.0	0.0	0.0	0.0	3.5	0.0	0.0
Total Delay	74.7	83.8	50.1	583.1	17.3	202.1	19.9
LOS	E	F	D	F	B	F	B
Approach Delay		70.5			254.1	158.8	
Approach LOS		E			F	F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.23	
Intersection Signal Delay: 178.3	Intersection LOS: F
Intersection Capacity Utilization 152.3%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	845	7	421	1000	1389	0	0	1710	532
Future Volume (veh/h)	0	0	0	845	7	421	1000	1389	0	0	1710	532
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				953	0	190	1020	1417	0	0	1745	353
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				1005	0	447	461	2337	0	0	1281	572
Arrive On Green				0.28	0.00	0.28	0.25	0.65	0.00	0.00	0.35	0.35
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				953	0	190	1020	1417	0	0	1745	353
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				30.9	0.0	11.6	30.5	27.3	0.0	0.0	42.5	21.7
Cycle Q Clear(g_c), s				30.9	0.0	11.6	30.5	27.3	0.0	0.0	42.5	21.7
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1005	0	447	461	2337	0	0	1281	572
V/C Ratio(X)				0.95	0.00	0.43	2.21	0.61	0.00	0.00	1.36	0.62
Avail Cap(c_a), veh/h				1013	0	450	461	2337	0	0	1281	572
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				42.4	0.0	35.4	44.6	12.3	0.0	0.0	38.6	31.9
Incr Delay (d2), s/veh				17.2	0.0	0.6	552.8	0.5	0.0	0.0	168.0	2.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				15.6	0.0	4.5	84.0	9.9	0.0	0.0	47.9	8.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				59.6	0.0	36.1	597.5	12.7	0.0	0.0	206.6	33.9
LnGrp LOS				E	A	D	F	B	A	A	F	C
Approach Vol, veh/h					1143			2437			2098	
Approach Delay, s/veh					55.7			257.5			177.5	
Approach LOS					E			F			F	

Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		82.0			35.0	47.0		37.7				
Change Period (Y+Rc), s		4.5			4.5	4.5		4.5				
Max Green Setting (Gmax), s		77.5			30.5	42.5		33.5				
Max Q Clear Time (g_c+I1), s		29.3			32.5	44.5		32.9				
Green Ext Time (p_c), s		14.6			0.0	0.0		0.3				

Intersection Summary		
HCM 6th Ctrl Delay	187.3	
HCM 6th LOS	F	

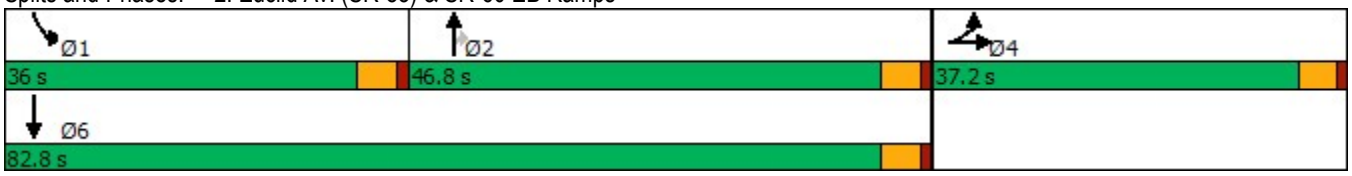
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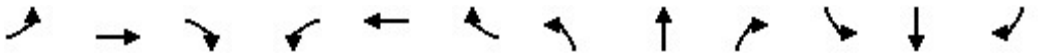
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	335	6	1756	748	409	1895
Future Volume (vph)	335	6	1756	748	409	1895
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	Min	Min	None	Min
Act Effct Green (s)	32.7	32.7	42.3	42.3	30.2	77.0
Actuated g/C Ratio	0.28	0.28	0.36	0.36	0.25	0.65
v/c Ratio	0.67	1.50	1.42	0.95	0.93	0.84
Control Delay	46.5	267.5	225.8	39.5	71.5	20.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	47.0
Total Delay	46.5	267.5	225.8	39.5	71.5	67.6
LOS	D	F	F	D	E	E
Approach Delay		196.0	170.2			68.3
Approach LOS		F	F			E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.7	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.50	
Intersection Signal Delay: 133.4	Intersection LOS: F
Intersection Capacity Utilization 152.3%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	335	6	591	0	0	0	0	1756	748	409	1895	0
Future Volume (veh/h)	335	6	591	0	0	0	0	1756	748	409	1895	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	349	6	542				0	1829	652	426	1974	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	501	5	442				0	1293	561	453	2335	0
Arrive On Green	0.28	0.28	0.28				0.00	0.36	0.36	0.25	0.65	0.00
Sat Flow, veh/h	1810	18	1595				0	3705	1567	1810	3705	0
Grp Volume(v), veh/h	349	0	548				0	1829	652	426	1974	0
Grp Sat Flow(s),veh/h/ln	1810	0	1613				0	1805	1567	1810	1805	0
Q Serve(g_s), s	20.4	0.0	32.7				0.0	42.3	42.3	27.2	50.3	0.0
Cycle Q Clear(g_c), s	20.4	0.0	32.7				0.0	42.3	42.3	27.2	50.3	0.0
Prop In Lane	1.00		0.99				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	501	0	447				0	1293	561	453	2335	0
V/C Ratio(X)	0.70	0.00	1.23				0.00	1.41	1.16	0.94	0.85	0.00
Avail Cap(c_a), veh/h	501	0	447				0	1293	561	483	2394	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	38.3	0.0	42.7				0.0	37.9	37.9	43.4	16.2	0.0
Incr Delay (d2), s/veh	4.2	0.0	120.6				0.0	191.1	91.0	25.8	2.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.3	0.0	27.4				0.0	52.2	29.7	15.1	18.9	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.4	0.0	163.3				0.0	229.0	128.9	69.2	19.2	0.0
LnGrp LOS	D	A	F				A	F	F	E	B	A
Approach Vol, veh/h		897						2481			2400	
Approach Delay, s/veh		116.3						202.7			28.1	
Approach LOS		F						F			C	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	34.1	46.8		37.2		80.9
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	29.2	44.3		34.7		52.3
Green Ext Time (p_c), s	0.3	0.0		0.0		17.8

Intersection Summary	
HCM 6th Ctrl Delay	116.7
HCM 6th LOS	F

Notes

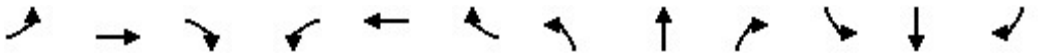
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	174	573	122	423	161	2067	98	306	1653	198
Future Volume (vph)	174	573	122	423	161	2067	98	306	1653	198
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	20.0	33.7	17.3	31.0	23.0	51.7	51.7	17.3	46.0	46.0
Total Split (%)	16.7%	28.1%	14.4%	25.8%	19.2%	43.1%	43.1%	14.4%	38.3%	38.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	15.2	29.2	12.2	26.2	16.3	47.2	47.2	12.8	43.8	43.8
Actuated g/C Ratio	0.13	0.24	0.10	0.22	0.14	0.40	0.40	0.11	0.37	0.37
v/c Ratio	0.90	1.02	0.78	0.83	0.77	1.02	0.16	0.99	0.88	0.33
Control Delay	92.5	75.1	82.8	49.1	72.6	60.4	6.1	100.6	42.1	11.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	92.5	75.1	82.8	49.1	72.6	60.4	6.1	100.6	42.1	11.6
LOS	F	E	F	D	E	E	A	F	D	B
Approach Delay		78.0		54.5		59.0			47.6	
Approach LOS		E		D		E			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.4	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.02	
Intersection Signal Delay: 57.7	Intersection LOS: E
Intersection Capacity Utilization 101.8%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	174	573	296	122	423	210	161	2067	98	306	1653	198
Future Volume (veh/h)	174	573	296	122	423	210	161	2067	98	306	1653	198
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	183	603	165	128	445	116	169	2176	56	322	1740	108
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	207	655	179	152	569	147	195	2175	614	333	2114	597
Arrive On Green	0.13	0.24	0.24	0.09	0.21	0.21	0.12	0.40	0.40	0.11	0.39	0.39
Sat Flow, veh/h	1619	2723	743	1619	2757	713	1619	5400	1524	3048	5400	1524
Grp Volume(v), veh/h	183	398	370	128	289	272	169	2176	56	322	1740	108
Grp Sat Flow(s),veh/h/ln	1619	1800	1666	1619	1800	1669	1619	1800	1524	1524	1800	1524
Q Serve(g_s), s	13.0	25.3	25.4	9.1	17.8	18.1	12.0	47.2	2.7	12.3	33.9	5.4
Cycle Q Clear(g_c), s	13.0	25.3	25.4	9.1	17.8	18.1	12.0	47.2	2.7	12.3	33.9	5.4
Prop In Lane	1.00		0.45	1.00		0.43	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	207	433	401	152	372	345	195	2175	614	333	2114	597
V/C Ratio(X)	0.88	0.92	0.92	0.84	0.78	0.79	0.87	1.00	0.09	0.97	0.82	0.18
Avail Cap(c_a), veh/h	214	448	415	177	407	377	256	2175	614	333	2114	597
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.2	43.4	43.4	52.3	44.0	44.1	50.6	35.0	21.7	52.0	32.0	23.4
Incr Delay (d2), s/veh	31.6	23.6	25.5	26.3	8.6	9.9	20.8	19.4	0.1	40.5	2.8	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.9	13.7	12.9	4.7	8.6	8.2	5.9	23.5	0.9	6.5	14.7	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	81.8	67.0	68.9	78.6	52.5	54.0	71.5	54.4	21.8	92.5	34.8	23.5
LnGrp LOS	F	E	E	E	D	D	E	F	C	F	C	C
Approach Vol, veh/h		951			689			2401			2170	
Approach Delay, s/veh		70.6			57.9			54.9			42.8	
Approach LOS		E			E			D			D	

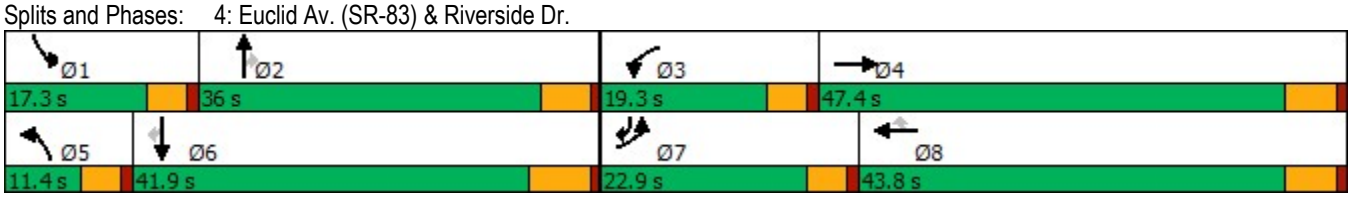
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.3	51.7	15.5	32.7	18.6	50.4	19.5	28.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	12.8	47.2	12.8	29.2	18.5	41.5	15.5	26.5
Max Q Clear Time (g_c+I1), s	14.3	49.2	11.1	27.4	14.0	35.9	15.0	20.1
Green Ext Time (p_c), s	0.0	0.0	0.0	0.8	0.2	4.5	0.0	1.7

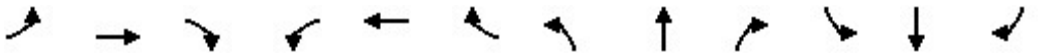
Intersection Summary	
HCM 6th Ctrl Delay	53.4
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	158	973	185	697	83	294	1991	439	125	1510	429
Future Volume (vph)	158	973	185	697	83	294	1991	439	125	1510	429
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	22.9	47.4	19.3	43.8	43.8	11.4	36.0	36.0	17.3	41.9	22.9
Total Split (%)	19.1%	39.5%	16.1%	36.5%	36.5%	9.5%	30.0%	30.0%	14.4%	34.9%	19.1%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	15.2	41.6	14.7	41.1	41.1	6.8	31.6	31.6	11.7	35.4	57.1
Actuated g/C Ratio	0.13	0.35	0.12	0.34	0.34	0.06	0.26	0.26	0.10	0.30	0.48
v/c Ratio	0.78	1.87	0.95	0.60	0.14	3.26	2.23	0.82	0.80	1.51	0.57
Control Delay	75.6	422.9	104.9	35.9	0.5	1064.5	583.0	38.1	87.0	267.9	21.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	75.6	422.9	104.9	35.9	0.5	1064.5	583.0	38.1	87.0	267.9	21.6
LOS	E	F	F	D	A	F	F	D	F	F	C
Approach Delay		380.5		46.1			547.2			205.8	
Approach LOS		F		D			F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 3.26	
Intersection Signal Delay: 348.0	Intersection LOS: F
Intersection Capacity Utilization 158.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	158	973	164	185	697	83	294	1991	439	125	1510	429
Future Volume (veh/h)	158	973	164	185	697	83	294	1991	439	125	1510	429
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	160	983	135	187	704	45	297	2011	380	126	1525	334
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	184	537	74	198	1215	533	92	888	396	149	1009	624
Arrive On Green	0.11	0.35	0.35	0.12	0.36	0.36	0.06	0.26	0.26	0.09	0.30	0.30
Sat Flow, veh/h	1619	1549	213	1619	3420	1502	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	160	0	1118	187	704	45	297	2011	380	126	1525	334
Grp Sat Flow(s),veh/h/ln	1619	0	1762	1619	1710	1502	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	11.7	0.0	41.6	13.8	20.1	2.4	6.8	31.2	29.5	9.2	35.4	19.9
Cycle Q Clear(g_c), s	11.7	0.0	41.6	13.8	20.1	2.4	6.8	31.2	29.5	9.2	35.4	19.9
Prop In Lane	1.00		0.12	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	184	0	611	198	1215	533	92	888	396	149	1009	624
V/C Ratio(X)	0.87	0.00	1.83	0.94	0.58	0.08	3.24	2.27	0.96	0.85	1.51	0.54
Avail Cap(c_a), veh/h	247	0	611	198	1215	533	92	888	396	171	1009	624
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.3	0.0	39.2	52.2	31.4	25.7	56.6	44.4	43.8	53.6	42.3	26.8
Incr Delay (d2), s/veh	17.4	0.0	380.2	47.2	0.7	0.1	1034.4	572.9	34.7	24.9	235.4	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	0.0	81.5	8.0	8.1	0.8	29.0	83.0	14.5	4.7	47.4	7.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	69.7	0.0	419.4	99.5	32.1	25.8	1091.0	617.3	78.5	78.6	277.7	27.7
LnGrp LOS	E	A	F	F	C	C	F	F	E	E	F	C
Approach Vol, veh/h		1278			936			2688			1985	
Approach Delay, s/veh		375.6			45.3			593.5			223.0	
Approach LOS		F			D			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.6	37.7	19.3	47.4	11.4	41.9	18.3	48.4
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	12.7	* 31	14.7	41.6	6.8	35.4	18.3	38.0
Max Q Clear Time (g_c+I1), s	11.2	33.2	15.8	43.6	8.8	37.4	13.7	22.1
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.1

Intersection Summary	
HCM 6th Ctrl Delay	371.7
HCM 6th LOS	F

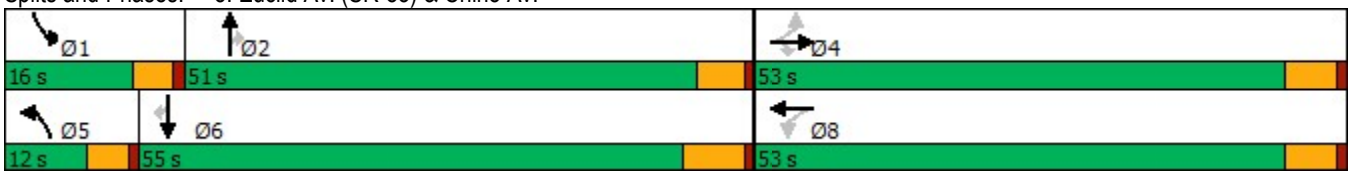
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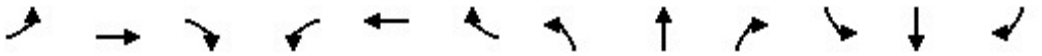
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	153	684	91	165	406	79	2215	262	111	1561	181
Future Volume (vph)	153	684	91	165	406	79	2215	262	111	1561	181
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	53.0	53.0	53.0	53.0	53.0	12.0	51.0	51.0	16.0	55.0	55.0
Total Split (%)	44.2%	44.2%	44.2%	44.2%	44.2%	10.0%	42.5%	42.5%	13.3%	45.8%	45.8%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	47.2	47.2	47.2		47.2	7.3	46.4	46.4	10.7	48.5	48.5
Actuated g/C Ratio	0.39	0.39	0.39		0.39	0.06	0.39	0.39	0.09	0.40	0.40
v/c Ratio	0.77	1.00	0.15		10.36	0.83	1.72	0.43	0.80	1.16	0.27
Control Delay	57.5	69.6	8.2		4247.2	108.3	356.1	22.5	89.3	115.6	9.8
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.5	69.6	8.2		4247.2	108.3	356.1	22.5	89.3	115.6	9.8
LOS	E	E	A		F	F	F	C	F	F	A
Approach Delay		61.5			4247.2		314.3			103.7	
Approach LOS		E			F		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.9	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 10.36	
Intersection Signal Delay: 663.0	Intersection LOS: F
Intersection Capacity Utilization 167.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	153	684	91	165	406	122	79	2215	262	111	1561	181
Future Volume (veh/h)	153	684	91	165	406	122	79	2215	262	111	1561	181
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	158	705	74	170	419	120	81	2284	208	114	1609	155
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	225	708	600	38	22	5	100	1305	582	136	1382	617
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.06	0.38	0.38	0.08	0.40	0.40
Sat Flow, veh/h	787	1800	1525	2	56	12	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	158	705	74	709	0	0	81	2284	208	114	1609	155
Grp Sat Flow(s),veh/h/ln	787	1800	1525	70	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	46.9	3.7	0.3	0.0	0.0	5.9	45.8	11.7	8.3	48.5	8.1
Cycle Q Clear(g_c), s	44.1	46.9	3.7	47.2	0.0	0.0	5.9	45.8	11.7	8.3	48.5	8.1
Prop In Lane	1.00		1.00	0.24		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	225	708	600	65	0	0	100	1305	582	136	1382	617
V/C Ratio(X)	0.70	1.00	0.12	10.98	0.00	0.00	0.81	1.75	0.36	0.84	1.16	0.25
Avail Cap(c_a), veh/h	225	708	600	65	0	0	100	1305	582	154	1382	617
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.4	36.3	23.2	42.8	0.0	0.0	55.6	37.1	26.6	54.1	35.7	23.7
Incr Delay (d2), s/veh	9.4	32.7	0.1	4523.1	0.0	0.0	35.7	340.6	1.7	26.1	82.1	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	25.7	1.3	83.0	0.0	0.0	3.3	79.3	4.3	4.2	34.1	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	44.9	69.0	23.3	4565.9	0.0	0.0	91.3	377.7	28.3	80.2	117.8	24.7
LnGrp LOS	D	E	C	F	A	A	F	F	C	F	F	C
Approach Vol, veh/h		937			709			2573			1878	
Approach Delay, s/veh		61.3			4565.9			340.5			107.8	
Approach LOS		E			F			F			F	

Timer - Assigned Phs	1	2		4	5	6		8
Phs Duration (G+Y+Rc), s	14.7	52.3		53.0	12.0	55.0		53.0
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8
Max Green Setting (Gmax), s	11.4	* 46		47.2	7.4	48.5		47.2
Max Q Clear Time (g_c+I1), s	10.3	47.8		48.9	7.9	50.5		49.2
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0

Intersection Summary		
HCM 6th Ctrl Delay		717.3
HCM 6th LOS		F

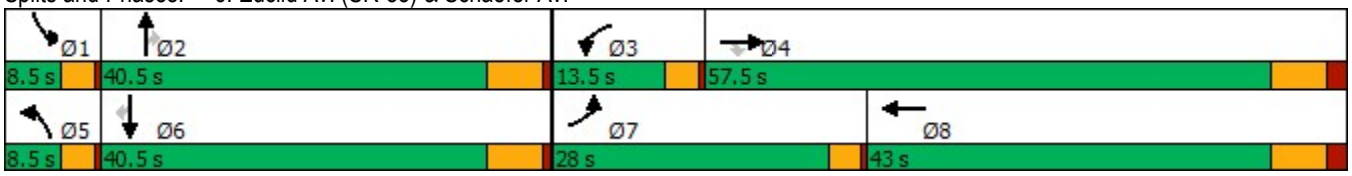
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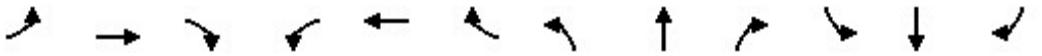
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	404	334	173	172	265	134	1995	65	89	1581	186
Future Volume (vph)	404	334	173	172	265	134	1995	65	89	1581	186
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	28.0	57.5	57.5	13.5	43.0	8.5	40.5	40.5	8.5	40.5	40.5
Total Split (%)	23.3%	47.9%	47.9%	11.3%	35.8%	7.1%	33.8%	33.8%	7.1%	33.8%	33.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	24.5	49.3	49.3	10.0	34.8	5.0	34.5	34.5	5.0	34.5	34.5
Actuated g/C Ratio	0.21	0.41	0.41	0.08	0.29	0.04	0.29	0.29	0.04	0.29	0.29
v/c Ratio	1.25	0.46	0.25	1.31	0.96	2.03	2.07	0.12	1.35	1.64	0.36
Control Delay	175.5	27.5	8.6	224.2	70.0	544.7	510.3	0.5	275.3	323.0	13.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	175.5	27.5	8.6	224.2	70.0	544.7	510.3	0.5	275.3	323.0	13.7
LOS	F	C	A	F	E	F	F	A	F	F	B
Approach Delay		89.6			110.7		497.3			289.7	
Approach LOS		F			F		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.07	
Intersection Signal Delay: 317.7	Intersection LOS: F
Intersection Capacity Utilization 134.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	404	334	173	172	265	213	134	1995	65	89	1581	186
Future Volume (veh/h)	404	334	173	172	265	213	134	1995	65	89	1581	186
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	416	344	113	177	273	214	138	2057	60	92	1630	147
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	331	758	642	135	280	220	67	983	439	67	983	428
Arrive On Green	0.20	0.42	0.42	0.08	0.30	0.30	0.04	0.29	0.29	0.04	0.29	0.29
Sat Flow, veh/h	1619	1800	1525	1619	935	733	1619	3420	1525	1619	3420	1490
Grp Volume(v), veh/h	416	344	113	177	0	487	138	2057	60	92	1630	147
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1667	1619	1710	1525	1619	1710	1490
Q Serve(g_s), s	24.5	16.4	5.6	10.0	0.0	34.7	5.0	34.5	3.5	5.0	34.5	9.4
Cycle Q Clear(g_c), s	24.5	16.4	5.6	10.0	0.0	34.7	5.0	34.5	3.5	5.0	34.5	9.4
Prop In Lane	1.00		1.00	1.00		0.44	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	331	758	642	135	0	500	67	983	439	67	983	428
V/C Ratio(X)	1.26	0.45	0.18	1.31	0.00	0.97	2.05	2.09	0.14	1.36	1.66	0.34
Avail Cap(c_a), veh/h	331	758	642	135	0	500	67	983	439	67	983	428
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.7	24.9	21.7	55.0	0.0	41.5	57.5	42.7	31.7	57.5	42.7	33.8
Incr Delay (d2), s/veh	138.6	0.3	0.1	183.3	0.0	33.3	518.0	494.9	0.1	233.7	300.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	22.3	6.8	1.9	10.8	0.0	18.2	11.7	81.2	1.3	6.3	54.7	3.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	186.3	25.2	21.8	238.3	0.0	74.9	575.5	537.7	31.8	291.2	343.3	34.3
LnGrp LOS	F	C	C	F	A	E	F	F	C	F	F	C
Approach Vol, veh/h		873			664			2255			1869	
Approach Delay, s/veh		101.5			118.4			526.5			316.4	
Approach LOS		F			F			F			F	

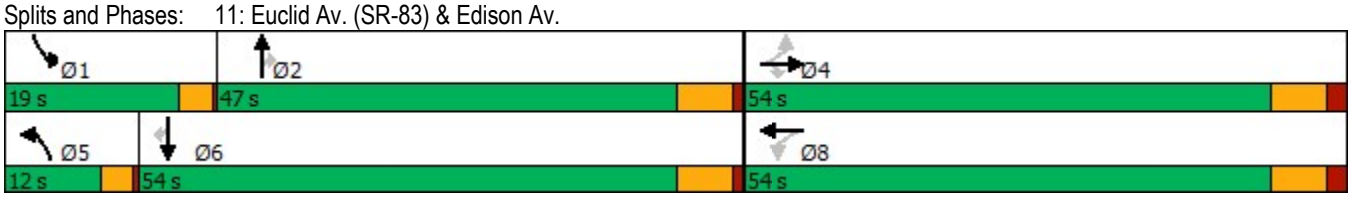
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.5	40.5	13.5	57.5	8.5	40.5	28.0	43.0
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	34.5	10.0	50.5	5.0	34.5	24.5	36.0
Max Q Clear Time (g_c+I1), s	7.0	36.5	12.0	18.4	7.0	36.5	26.5	36.7
Green Ext Time (p_c), s	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0

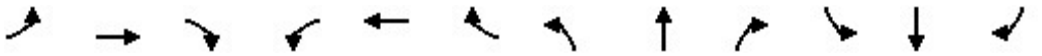
Intersection Summary	
HCM 6th Ctrl Delay	343.7
HCM 6th LOS	F

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	347	1358	236	149	726	227	1689	139	284	1214	238
Future Volume (vph)	347	1358	236	149	726	227	1689	139	284	1214	238
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	47.0	47.0	47.0	47.0	47.0	8.5	41.0	41.0	15.5	48.0	48.0
Actuated g/C Ratio	0.39	0.39	0.39	0.39	0.39	0.07	0.34	0.34	0.13	0.40	0.40
v/c Ratio	6.32	1.97	0.37	2.71	1.56	1.05	1.48	0.25	1.39	0.91	0.37
Control Delay	2441.1	464.3	17.2	838.2	287.1	127.7	249.7	10.9	243.1	44.6	18.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	2441.1	464.3	17.2	838.2	287.1	127.7	249.7	10.9	243.1	44.6	18.9
LOS	F	F	B	F	F	F	F	B	F	D	B
Approach Delay		763.1			356.0		220.1			73.5	
Approach LOS		F			F		F			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 6.32	
Intersection Signal Delay: 359.0	Intersection LOS: F
Intersection Capacity Utilization 171.5%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	347	1358	236	149	726	318	227	1689	139	284	1214	238
Future Volume (veh/h)	347	1358	236	149	726	318	227	1689	139	284	1214	238
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	354	1386	190	152	741	313	232	1723	132	290	1239	192
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	60	705	597	60	468	198	222	1168	509	209	1368	603
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.07	0.34	0.34	0.13	0.40	0.40
Sat Flow, veh/h	487	1800	1525	296	1196	505	3141	3420	1489	1619	3420	1506
Grp Volume(v), veh/h	354	1386	190	152	0	1054	232	1723	132	290	1239	192
Grp Sat Flow(s),veh/h/ln	487	1800	1525	296	0	1701	1570	1710	1489	1619	1710	1506
Q Serve(g_s), s	0.0	47.0	10.4	0.0	0.0	47.0	8.5	41.0	7.7	15.5	40.9	10.5
Cycle Q Clear(g_c), s	47.0	47.0	10.4	47.0	0.0	47.0	8.5	41.0	7.7	15.5	40.9	10.5
Prop In Lane	1.00		1.00	1.00		0.30	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	60	705	597	60	0	666	222	1169	509	209	1368	603
V/C Ratio(X)	5.90	1.97	0.32	2.53	0.00	1.58	1.04	1.47	0.26	1.39	0.91	0.32
Avail Cap(c_a), veh/h	60	705	597	60	0	666	222	1169	509	209	1368	603
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	60.0	36.5	25.4	60.0	0.0	36.5	55.7	39.5	28.5	52.2	33.9	24.8
Incr Delay (d2), s/veh	2240.5	439.8	0.3	736.4	0.0	269.1	72.0	218.2	0.3	200.8	8.9	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	39.1	105.5	3.7	14.1	0.0	68.1	5.5	51.3	2.6	17.7	17.2	3.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	2300.5	476.3	25.7	796.4	0.0	305.6	127.7	257.7	28.8	253.0	42.8	25.1
LnGrp LOS	F	F	C	F	A	F	F	F	C	F	D	C
Approach Vol, veh/h		1930			1206			2087			1721	
Approach Delay, s/veh		766.6			367.4			228.8			76.2	
Approach LOS		F			F			F			E	

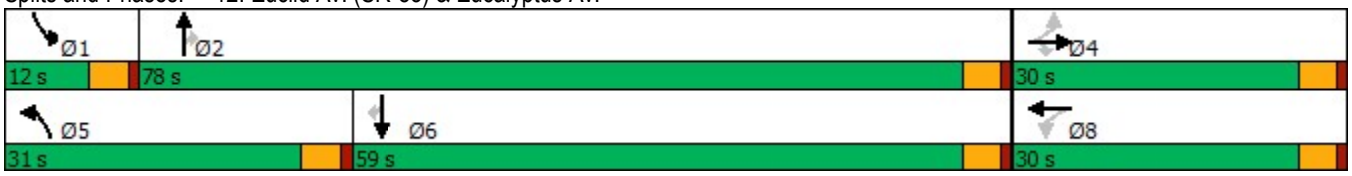
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	19.0	47.0		54.0	12.0	54.0		54.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	17.5	43.0		49.0	10.5	42.9		49.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	3.4		0.0				

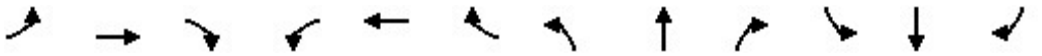
Intersection Summary		
HCM 6th Ctrl Delay	364.5	
HCM 6th LOS	F	

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	48	166	234	46	196	131	1790	23	151	1859	83
Future Volume (vph)	48	166	234	46	196	131	1790	23	151	1859	83
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	30.0	30.0	30.0	30.0	30.0	31.0	78.0	78.0	12.0	59.0	59.0
Total Split (%)	25.0%	25.0%	25.0%	25.0%	25.0%	25.8%	65.0%	65.0%	10.0%	49.2%	49.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	25.6	25.6	25.6	25.6	25.6	15.0	68.4	68.4	7.5	60.9	60.9
Actuated g/C Ratio	0.22	0.22	0.22	0.22	0.22	0.13	0.59	0.59	0.07	0.53	0.53
v/c Ratio	0.85	0.43	0.46	0.24	1.26	0.65	0.92	0.03	1.50	1.07	0.10
Control Delay	129.3	43.9	8.0	43.0	168.7	62.2	29.2	0.3	303.9	70.1	2.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	129.3	43.9	8.0	43.0	168.7	62.2	29.2	0.3	303.9	70.1	2.9
LOS	F	D	A	D	F	E	C	A	F	E	A
Approach Delay		34.3			157.9		31.1			84.3	
Approach LOS		C			F		C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 115.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.50	
Intersection Signal Delay: 67.1	Intersection LOS: E
Intersection Capacity Utilization 111.7%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	48	166	234	46	196	298	131	1790	23	151	1859	83
Future Volume (veh/h)	48	166	234	46	196	298	131	1790	23	151	1859	83
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	50	173	149	48	204	307	136	1865	22	157	1936	75
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	62	398	338	196	144	216	163	2040	910	105	1918	855
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22	0.10	0.60	0.60	0.07	0.56	0.56
Sat Flow, veh/h	808	1800	1525	961	648	976	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	50	173	149	48	0	511	136	1865	22	157	1936	75
Grp Sat Flow(s),veh/h/ln	808	1800	1525	961	0	1624	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	0.0	9.5	9.7	5.2	0.0	25.5	9.5	55.8	0.7	7.5	64.6	2.6
Cycle Q Clear(g_c), s	25.5	9.5	9.7	14.8	0.0	25.5	9.5	55.8	0.7	7.5	64.6	2.6
Prop In Lane	1.00		1.00	1.00		0.60	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	62	398	338	196	0	359	163	2040	910	105	1918	855
V/C Ratio(X)	0.80	0.43	0.44	0.25	0.00	1.42	0.83	0.91	0.02	1.49	1.01	0.09
Avail Cap(c_a), veh/h	62	398	338	196	0	359	372	2182	973	105	1918	855
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.6	38.6	38.7	45.0	0.0	44.9	50.9	20.6	9.5	53.9	25.3	11.7
Incr Delay (d2), s/veh	50.7	0.7	0.9	0.6	0.0	205.3	10.5	6.3	0.0	263.8	22.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.3	4.2	3.6	1.2	0.0	30.4	4.2	20.0	0.2	10.6	28.1	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	108.3	39.4	39.6	45.7	0.0	250.2	61.4	26.9	9.5	317.7	48.2	11.7
LnGrp LOS	F	D	D	D	A	F	E	C	A	F	F	B
Approach Vol, veh/h		372			559			2023			2168	
Approach Delay, s/veh		48.7			232.6			29.0			66.4	
Approach LOS		D			F			C			E	

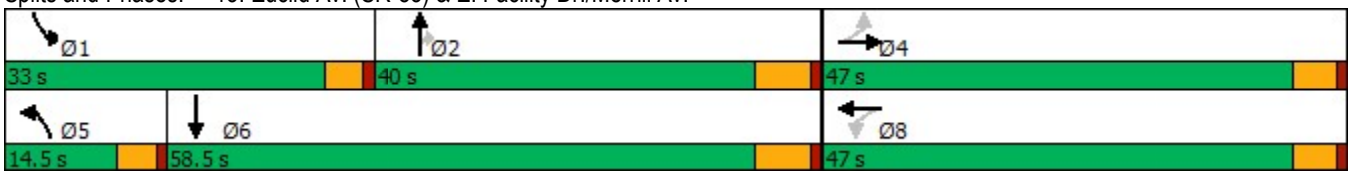
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.0	73.2		30.0	16.1	69.1		30.0				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	7.5	73.5		25.5	26.5	54.5		25.5				
Max Q Clear Time (g_c+I1), s	9.5	57.8		27.5	11.5	66.6		27.5				
Green Ext Time (p_c), s	0.0	11.0		0.0	0.3	0.0		0.0				

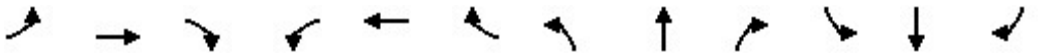
Intersection Summary												
HCM 6th Ctrl Delay			68.5									
HCM 6th LOS			E									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	4	22	702	0	3	1288	456	418	2010
Future Volume (vph)	4	22	702	0	3	1288	456	418	2010
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	47.0	47.0	47.0	47.0	14.5	40.0	40.0	33.0	58.5
Total Split (%)	39.2%	39.2%	39.2%	39.2%	12.1%	33.3%	33.3%	27.5%	48.8%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		42.0		42.0	10.0	34.0	34.0	28.5	64.1
Actuated g/C Ratio		0.35		0.35	0.08	0.28	0.28	0.24	0.53
v/c Ratio		0.08		2.52	0.02	1.37	0.92	1.13	1.14
Control Delay		17.9		708.7	51.0	208.1	54.8	126.8	98.9
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		17.9		708.7	51.0	208.1	54.8	126.8	98.9
LOS		B		F	D	F	D	F	F
Approach Delay		17.9		708.7		167.8			103.7
Approach LOS		B		F		F			F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.52	
Intersection Signal Delay: 268.6	Intersection LOS: F
Intersection Capacity Utilization 169.2%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	22	18	702	0	637	3	1288	456	418	2010	12
Future Volume (veh/h)	4	22	18	702	0	637	3	1288	456	418	2010	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	4	23	15	724	0	628	3	1328	436	431	2072	10
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	66	343	209	313	0	231	13	969	423	385	1790	9
Arrive On Green	0.35	0.35	0.35	0.35	0.00	0.35	0.01	0.28	0.28	0.24	0.51	0.51
Sat Flow, veh/h	96	979	597	762	0	661	1619	3420	1493	1619	3490	17
Grp Volume(v), veh/h	42	0	0	1352	0	0	3	1328	436	431	1014	1068
Grp Sat Flow(s),veh/h/ln	1671	0	0	1423	0	0	1619	1710	1493	1619	1710	1797
Q Serve(g_s), s	0.0	0.0	0.0	40.0	0.0	0.0	0.2	34.0	34.0	28.5	61.5	61.5
Cycle Q Clear(g_c), s	2.0	0.0	0.0	42.0	0.0	0.0	0.2	34.0	34.0	28.5	61.5	61.5
Prop In Lane	0.10		0.36	0.54		0.46	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	618	0	0	544	0	0	13	969	423	385	877	922
V/C Ratio(X)	0.07	0.00	0.00	2.48	0.00	0.00	0.23	1.37	1.03	1.12	1.16	1.16
Avail Cap(c_a), veh/h	618	0	0	544	0	0	135	969	423	385	877	922
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.0	0.0	0.0	40.6	0.0	0.0	59.2	43.0	43.0	45.8	29.2	29.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	673.3	0.0	0.0	3.4	173.3	51.9	82.9	83.2	83.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	0.0	117.5	0.0	0.0	0.1	36.8	17.8	19.6	42.3	44.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.0	0.0	0.0	713.9	0.0	0.0	62.6	216.3	94.9	128.6	112.5	112.7
LnGrp LOS	C	A	A	F	A	A	E	F	F	F	F	F
Approach Vol, veh/h		42			1352			1767			2513	
Approach Delay, s/veh		26.0			713.9			186.1			115.3	
Approach LOS		C			F			F			F	

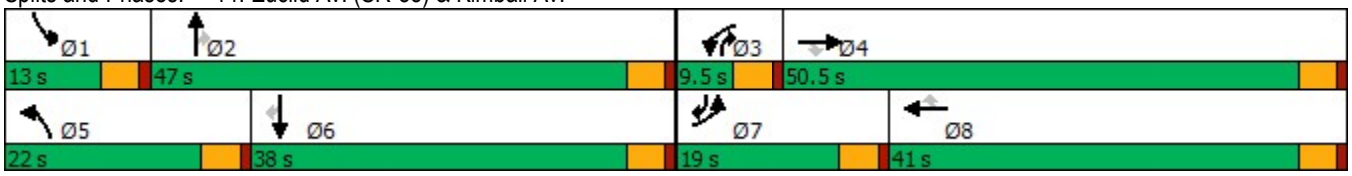
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	33.0	40.0		47.0	5.5	67.5		47.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	28.5	34.0		42.0	10.0	52.5		42.0				
Max Q Clear Time (g_c+I1), s	30.5	36.0		4.0	2.2	63.5		44.0				
Green Ext Time (p_c), s	0.0	0.0		0.1	0.0	0.0		0.0				

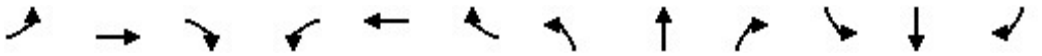
Intersection Summary			
HCM 6th Ctrl Delay		279.3	
HCM 6th LOS		F	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	563	1040	82	95	501	264	98	987	214	1016	1231	547
Future Volume (vph)	563	1040	82	95	501	264	98	987	214	1016	1231	547
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	19.0	50.5	50.5	9.5	41.0	41.0	22.0	47.0	9.5	13.0	38.0	19.0
Total Split (%)	15.8%	42.1%	42.1%	7.9%	34.2%	34.2%	18.3%	39.2%	7.9%	10.8%	31.7%	15.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	14.7	39.9	39.9	5.1	30.3	30.3	12.2	38.7	48.3	8.6	35.0	49.7
Actuated g/C Ratio	0.13	0.36	0.36	0.05	0.27	0.27	0.11	0.35	0.44	0.08	0.32	0.45
v/c Ratio	1.47	0.86	0.13	1.31	0.54	0.49	0.56	0.84	0.30	4.53	1.16	0.70
Control Delay	259.1	40.8	1.1	254.4	36.5	14.6	60.5	41.2	12.9	1612.3	116.9	20.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	259.1	40.8	1.1	254.4	36.5	14.6	60.5	41.2	12.9	1612.3	116.9	20.1
LOS	F	D	A	F	D	B	E	D	B	F	F	C
Approach Delay		111.8			53.9			38.0			641.9	
Approach LOS		F			D			D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 110.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 4.53	
Intersection Signal Delay: 313.0	Intersection LOS: F
Intersection Capacity Utilization 114.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	563	1040	82	95	501	264	98	987	214	1016	1231	547
Future Volume (veh/h)	563	1040	82	95	501	264	98	987	214	1016	1231	547
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	574	1061	72	97	511	198	100	1007	176	1037	1256	516
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	404	1237	552	76	931	415	124	1168	593	237	1180	728
Arrive On Green	0.14	0.36	0.36	0.05	0.27	0.27	0.08	0.34	0.34	0.08	0.35	0.35
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	574	1061	72	97	511	198	100	1007	176	1037	1256	516
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	14.5	30.5	3.4	5.0	13.6	11.5	6.5	29.2	8.5	8.5	36.6	28.7
Cycle Q Clear(g_c), s	14.5	30.5	3.4	5.0	13.6	11.5	6.5	29.2	8.5	8.5	36.6	28.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	404	1237	552	76	931	415	124	1168	593	237	1180	728
V/C Ratio(X)	1.42	0.86	0.13	1.27	0.55	0.48	0.81	0.86	0.30	4.38	1.06	0.71
Avail Cap(c_a), veh/h	404	1482	661	76	1176	524	267	1369	682	237	1180	728
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.8	31.3	22.7	50.6	33.0	32.3	48.2	32.6	22.4	48.8	34.8	21.7
Incr Delay (d2), s/veh	203.8	4.5	0.1	192.6	0.5	0.8	11.6	5.2	0.3	1531.5	45.2	3.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.5	12.5	1.2	6.0	5.4	4.2	2.9	11.9	2.9	53.3	21.2	9.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	249.6	35.9	22.8	243.2	33.6	33.2	59.8	37.8	22.7	1580.3	80.0	24.9
LnGrp LOS	F	D	C	F	C	C	E	D	C	F	F	C
Approach Vol, veh/h		1707			806			1283			2809	
Approach Delay, s/veh		107.2			58.7			37.5			623.7	
Approach LOS		F			E			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.0	40.8	9.5	42.9	12.6	41.1	19.0	33.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.5	42.5	5.0	46.0	17.5	33.5	14.5	36.5
Max Q Clear Time (g_c+I1), s	10.5	31.2	7.0	32.5	8.5	38.6	16.5	15.6
Green Ext Time (p_c), s	0.0	5.1	0.0	5.9	0.1	0.0	0.0	3.7

Intersection Summary	
HCM 6th Ctrl Delay	307.4
HCM 6th LOS	F

Intersection	
Intersection Delay, s/veh	45.4
Intersection LOS	E

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	64	461	55	24	192	16	59	190	28	19	121	22
Future Vol, veh/h	64	461	55	24	192	16	59	190	28	19	121	22
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	68	490	59	26	204	17	63	202	30	20	129	23
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	78.3	16	19.2	14.6
HCM LOS	F	C	C	B

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	21%	11%	10%	12%
Vol Thru, %	69%	79%	83%	75%
Vol Right, %	10%	9%	7%	14%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	277	580	232	162
LT Vol	59	64	24	19
Through Vol	190	461	192	121
RT Vol	28	55	16	22
Lane Flow Rate	295	617	247	172
Geometry Grp	1	1	1	1
Degree of Util (X)	0.567	1.059	0.463	0.348
Departure Headway (Hd)	7.21	6.18	7.041	7.6
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	504	592	516	476
Service Time	5.21	4.18	5.041	5.6
HCM Lane V/C Ratio	0.585	1.042	0.479	0.361
HCM Control Delay	19.2	78.3	16	14.6
HCM Lane LOS	C	F	C	B
HCM 95th-tile Q	3.5	17.5	2.4	1.5

Intersection	
Intersection Delay, s/veh	460.5
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	72	1934	218	28	817	19	73	205	59	22	199	37
Future Vol, veh/h	72	1934	218	28	817	19	73	205	59	22	199	37
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	78	2102	237	30	888	21	79	223	64	24	216	40
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	2157.4	611.6	98.2	74.7
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	22%	3%	3%	9%
Vol Thru, %	61%	87%	95%	77%
Vol Right, %	18%	10%	2%	14%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	337	2224	864	258
LT Vol	73	72	28	22
Through Vol	205	1934	817	199
RT Vol	59	218	19	37
Lane Flow Rate	366	2417	939	280
Geometry Grp	1	1	1	1
Degree of Util (X)	0.888	5.732	2.239	0.714
Departure Headway (Hd)	22.424	11.334	18.851	25.297
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	165	363	207	146
Service Time	20.424	9.334	16.851	23.297
HCM Lane V/C Ratio	2.218	6.658	4.536	1.918
HCM Control Delay	98.2	2157.4	611.6	74.7
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	6.3	191.4	34.3	4.1

Intersection	
Intersection Delay, s/veh	367.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	131	253	166	7	122	91	43	690	55	132	474	77
Future Vol, veh/h	131	253	166	7	122	91	43	690	55	132	474	77
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	144	278	182	8	134	100	47	758	60	145	521	85
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	243.2	45.7	517.6	399
HCM LOS	F	E	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	24%	3%	19%
Vol Thru, %	88%	46%	55%	69%
Vol Right, %	7%	30%	41%	11%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	788	550	220	683
LT Vol	43	131	7	132
Through Vol	690	253	122	474
RT Vol	55	166	91	77
Lane Flow Rate	866	604	242	751
Geometry Grp	1	1	1	1
Degree of Util (X)	2.068	1.427	0.628	1.793
Departure Headway (Hd)	11.914	12.572	17.295	12.627
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	312	296	213	293
Service Time	9.914	10.572	15.295	10.627
HCM Lane V/C Ratio	2.776	2.041	1.136	2.563
HCM Control Delay	517.6	243.2	45.7	399
HCM Lane LOS	F	F	E	F
HCM 95th-tile Q	45.5	22.2	3.7	33.9

Intersection	
Intersection Delay, s/veh	1648.9
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	109	1895	181	27	880	55	482	652	166	150	403	112
Future Vol, veh/h	109	1895	181	27	880	55	482	652	166	150	403	112
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	117	2038	195	29	946	59	518	701	178	161	433	120
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	2441.1	964	1343.9	633.1
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	37%	5%	3%	23%
Vol Thru, %	50%	87%	91%	61%
Vol Right, %	13%	8%	6%	17%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	1300	2185	962	665
LT Vol	482	109	27	150
Through Vol	652	1895	880	403
RT Vol	166	181	55	112
Lane Flow Rate	1398	2349	1034	715
Geometry Grp	1	1	1	1
Degree of Util (X)	3.726	6.237	2.75	1.895
Departure Headway (Hd)	49.692	37.568	72.53	88.306
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	98	141	62	50
Service Time	47.692	35.568	70.53	86.306
HCM Lane V/C Ratio	14.265	16.66	16.677	14.3
HCM Control Delay	1343.9	2441.1	964	633.1
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	28.3	66.1	14.4	8.1

Intersection	
Intersection Delay, s/veh	1761.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	23	2200	28	267	912	284	1	121	754	191	143	21
Future Vol, veh/h	23	2200	28	267	912	284	1	121	754	191	143	21
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	25	2391	30	290	991	309	1	132	820	208	155	23
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	2544.1	1531.1	730.2	288.3
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	1%	18%	54%
Vol Thru, %	14%	98%	62%	40%
Vol Right, %	86%	1%	19%	6%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	876	2251	1463	355
LT Vol	1	23	267	191
Through Vol	121	2200	912	143
RT Vol	754	28	284	21
Lane Flow Rate	952	2447	1590	386
Geometry Grp	1	1	1	1
Degree of Util (X)	2.398	6.509	4.197	1.036
Departure Headway (Hd)	38.229	28.653	39.444	81.764
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	105	171	111	50
Service Time	36.229	26.653	37.444	79.764
HCM Lane V/C Ratio	9.067	14.31	14.324	7.72
HCM Control Delay	730.2	2544.1	1531.1	288.3
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	20.6	89.9	40.1	4.2

Intersection	
Int Delay, s/veh	86.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	35	2463	57	72	1950	54	24	12	124	63	21	16
Future Vol, veh/h	35	2463	57	72	1950	54	24	12	124	63	21	16
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	38	2677	62	78	2120	59	26	13	135	68	23	17

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2179	0	0	2739	0	0	5110	5119	2708	5164	5121	2150
Stage 1	-	-	-	-	-	-	2784	2784	-	2306	2306	-
Stage 2	-	-	-	-	-	-	2326	2335	-	2858	2815	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	248	-	-	149	-	-	0	0	~ 28	0	0	62
Stage 1	-	-	-	-	-	-	27	41	-	~ 52	74	-
Stage 2	-	-	-	-	-	-	50	71	-	~ 24	40	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	248	-	-	149	-	-	0	0	~ 28	-	0	62
Mov Cap-2 Maneuver	-	-	-	-	-	-	0	0	-	-	0	-
Stage 1	-	-	-	-	-	-	27	41	-	~ 52	74	-
Stage 2	-	-	-	-	-	-	~ 25	71	-	-	40	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.3	1.8	$ 2623	
HCM LOS			F	-

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	28	248	-	-	149	-	-	-
HCM Lane V/C Ratio	6.211	0.153	-	-	0.525	-	-	-
HCM Control Delay (s)	$ 2623	22.1	0	-	53.2	0	-	-
HCM Lane LOS	F	C	A	-	F	A	-	-
HCM 95th %tile Q(veh)	21.3	0.5	-	-	2.6	-	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	14.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	12	2541	85	204	1900	36	94	31	272	127	61	16
Future Vol, veh/h	12	2541	85	204	1900	36	94	31	272	127	61	16
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	13	2762	92	222	2065	39	102	34	296	138	66	17

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2104	0	0	2854	0	0	5404	5382	2808	5528	5409	2085
Stage 1	-	-	-	-	-	-	2834	2834	-	2529	2529	-
Stage 2	-	-	-	-	-	-	2570	2548	-	2999	2880	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	265	-	-	~ 134	-	-	0	0	~ 24	0	0	67
Stage 1	-	-	-	-	-	-	~ 25	39	-	~ 38	~ 56	-
Stage 2	-	-	-	-	-	-	~ 36	55	-	~ 20	~ 37	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	265	-	-	~ 134	-	-	-	0	~ 24	-	0	67
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	0	-	-	0	-
Stage 1	-	-	-	-	-	-	~ 25	39	-	~ 38	0	-
Stage 2	-	-	-	-	-	-	-	0	-	-	~ 37	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	36.6		
HCM LOS			-	-

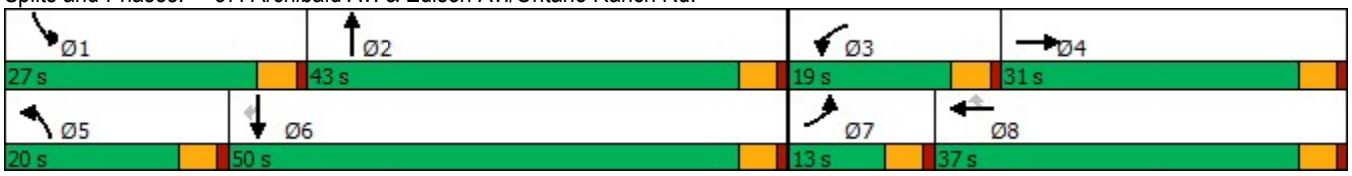
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	265	-	-	~ 134	-	-	-
HCM Lane V/C Ratio	-	0.049	-	-	1.655	-	-	-
HCM Control Delay (s)	-	19.3	0	-	$ 383.4	0	-	-
HCM Lane LOS	-	C	A	-	F	A	-	-
HCM 95th %tile Q(veh)	-	0.2	-	-	16.1	-	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	350	1795	811	575	1270	157	474	1261	669	236	1060	255
Future Volume (vph)	350	1795	811	575	1270	157	474	1261	669	236	1060	255
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	13.0	31.0		19.0	37.0	37.0	20.0	43.0		27.0	50.0	50.0
Total Split (%)	10.8%	25.8%		15.8%	30.8%	30.8%	16.7%	35.8%		22.5%	41.7%	41.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	8.5	26.5	118.4	14.5	32.5	32.5	15.5	38.5	118.4	20.9	43.9	43.9
Actuated g/C Ratio	0.07	0.22	1.00	0.12	0.27	0.27	0.13	0.33	1.00	0.18	0.37	0.37
v/c Ratio	1.69	2.34	0.56	1.63	2.71	0.32	2.36	1.13	0.46	0.87	0.84	0.41
Control Delay	363.1	632.1	1.5	327.7	794.5	10.6	653.5	108.6	1.0	76.8	40.6	15.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	363.1	632.1	1.5	327.7	794.5	10.6	653.5	108.6	1.0	76.8	40.6	15.0
LOS	F	F	A	F	F	B	F	F	A	E	D	B
Approach Delay		427.2			599.1			186.1			41.9	
Approach LOS		F			F			F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.71	
Intersection Signal Delay: 333.7	Intersection LOS: F
Intersection Capacity Utilization 157.7%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	350	1795	811	575	1270	157	474	1261	669	236	1060	255
Future Volume (veh/h)	350	1795	811	575	1270	157	474	1261	669	236	1060	255
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	368	1889	0	605	1337	123	499	1327	0	248	1116	249
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	221	813		377	499	422	214	1181		274	1314	557
Arrive On Green	0.07	0.23	0.00	0.12	0.28	0.28	0.13	0.33	0.00	0.17	0.36	0.36
Sat Flow, veh/h	3048	3600	1525	3048	1800	1524	1619	3600	1525	1619	3600	1525
Grp Volume(v), veh/h	368	1889	0	605	1337	123	499	1327	0	248	1116	249
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1524	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	8.5	26.5	0.0	14.5	32.5	7.4	15.5	38.5	0.0	17.6	33.5	14.5
Cycle Q Clear(g_c), s	8.5	26.5	0.0	14.5	32.5	7.4	15.5	38.5	0.0	17.6	33.5	14.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	221	813		377	499	422	214	1181		274	1314	557
V/C Ratio(X)	1.67	2.32		1.61	2.68	0.29	2.33	1.12		0.91	0.85	0.45
Avail Cap(c_a), veh/h	221	813		377	499	422	214	1181		311	1396	592
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.4	45.4	0.0	51.4	42.4	33.4	50.9	39.4	0.0	47.8	34.3	28.3
Incr Delay (d2), s/veh	319.1	599.2	0.0	284.9	762.3	0.4	614.1	67.0	0.0	26.7	4.9	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.9	78.9	0.0	20.2	119.2	2.7	42.5	26.7	0.0	8.8	14.4	5.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	373.5	644.6	0.0	336.3	804.7	33.7	665.0	106.4	0.0	74.6	39.2	28.8
LnGrp LOS	F	F		F	F	C	F	F		E	D	C
Approach Vol, veh/h		2257	A		2065			1826	A		1613	
Approach Delay, s/veh		600.4			621.5			259.0			43.1	
Approach LOS		F			F			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.3	43.0	19.0	31.0	20.0	47.3	13.0	37.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	22.5	38.5	14.5	26.5	15.5	45.5	8.5	32.5
Max Q Clear Time (g_c+I1), s	19.6	40.5	16.5	28.5	17.5	35.5	10.5	34.5
Green Ext Time (p_c), s	0.2	0.0	0.0	0.0	0.0	5.3	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	409.9
HCM 6th LOS	F

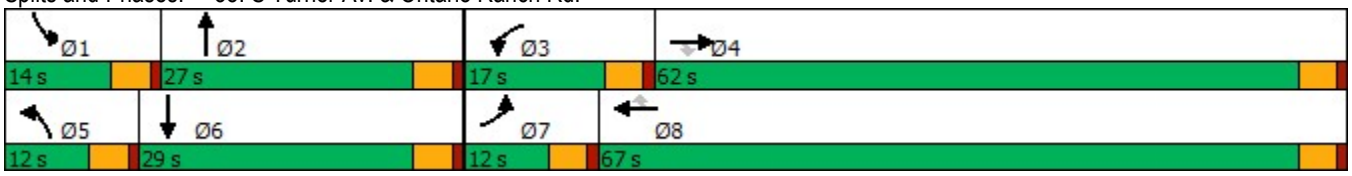
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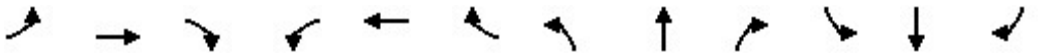
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	156	2326	53	66	2043	153	19	21	160	46
Future Volume (vph)	156	2326	53	66	2043	153	19	21	160	46
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	27.0	14.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	22.5%	11.7%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.5	63.0	63.0	9.3	62.6	62.6	6.5	8.9	9.5	18.3
Actuated g/C Ratio	0.07	0.59	0.59	0.09	0.59	0.59	0.06	0.08	0.09	0.17
v/c Ratio	1.32	1.17	0.06	0.45	1.04	0.16	0.18	0.33	1.07	0.36
Control Delay	230.4	106.5	0.1	55.9	52.6	3.1	52.8	27.8	138.1	26.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	230.4	106.5	0.1	55.9	52.6	3.1	52.8	27.8	138.1	26.2
LOS	F	F	A	E	D	A	D	C	F	C
Approach Delay		111.9			49.4			34.2		91.0
Approach LOS		F			D			C		F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 106.6	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.32	
Intersection Signal Delay: 82.2	Intersection LOS: F
Intersection Capacity Utilization 95.2%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	156	2326	53	66	2043	153	19	21	33	160	46	71
Future Volume (veh/h)	156	2326	53	66	2043	153	19	21	33	160	46	71
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	168	2501	52	71	2197	162	20	23	23	172	49	74
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	132	2281	1017	92	2201	982	38	43	43	168	82	124
Arrive On Green	0.07	0.63	0.63	0.05	0.61	0.61	0.02	0.05	0.05	0.09	0.12	0.12
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	872	872	1810	683	1031
Grp Volume(v), veh/h	168	2501	52	71	2197	162	20	0	46	172	0	123
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1743	1810	0	1714
Q Serve(g_s), s	7.5	64.8	1.3	4.0	62.2	4.5	1.1	0.0	2.6	9.5	0.0	7.0
Cycle Q Clear(g_c), s	7.5	64.8	1.3	4.0	62.2	4.5	1.1	0.0	2.6	9.5	0.0	7.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		0.60
Lane Grp Cap(c), veh/h	132	2281	1017	92	2201	982	38	0	85	168	0	206
V/C Ratio(X)	1.27	1.10	0.05	0.77	1.00	0.17	0.52	0.00	0.54	1.03	0.00	0.60
Avail Cap(c_a), veh/h	132	2281	1017	221	2201	982	132	0	383	168	0	410
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	47.5	18.9	7.2	48.0	19.9	8.7	49.7	0.0	47.6	46.5	0.0	42.7
Incr Delay (d2), s/veh	167.4	51.0	0.0	12.5	18.7	0.1	10.6	0.0	5.3	76.4	0.0	2.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.4	37.6	0.4	2.1	26.9	1.4	0.6	0.0	1.2	7.7	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	214.9	69.9	7.2	60.5	38.6	8.8	60.2	0.0	52.9	122.9	0.0	45.5
LnGrp LOS	F	F	A	E	D	A	E	A	D	F	A	D
Approach Vol, veh/h		2721			2430			66			295	
Approach Delay, s/veh		77.6			37.3			55.1			90.6	
Approach LOS		E			D			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	9.5	9.7	69.3	6.7	16.8	12.0	67.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.5	22.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	11.5	4.6	6.0	66.8	3.1	9.0	9.5	64.2
Green Ext Time (p_c), s	0.0	0.1	0.1	0.0	0.0	0.5	0.0	0.0

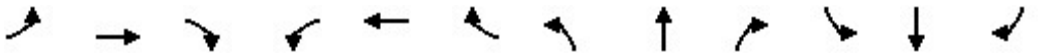
Intersection Summary	
HCM 6th Ctrl Delay	60.3
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	455	1884	91	268	1879	277	85	407	116	257	441	173
Future Volume (vph)	455	1884	91	268	1879	277	85	407	116	257	441	173
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	27.0	33.0	33.0	22.0	28.0	28.0	11.0	32.0	32.0	33.0	54.0	54.0
Total Split (%)	22.5%	27.5%	27.5%	18.3%	23.3%	23.3%	9.2%	26.7%	26.7%	27.5%	45.0%	45.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	22.5	30.7	30.7	15.4	23.5	23.5	6.5	27.5	27.5	23.6	44.7	44.7
Actuated g/C Ratio	0.20	0.27	0.27	0.13	0.20	0.20	0.06	0.24	0.24	0.20	0.39	0.39
v/c Ratio	1.55	1.55	0.19	0.73	1.60	0.56	1.00	1.02	0.25	0.83	0.68	0.27
Control Delay	296.7	281.6	3.2	60.0	305.0	9.1	151.0	92.9	2.8	65.5	34.9	4.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	296.7	281.6	3.2	60.0	305.0	9.1	151.0	92.9	2.8	65.5	34.9	4.2
LOS	F	F	A	E	F	A	F	F	A	E	C	A
Approach Delay		274.0			244.1			83.8			37.8	
Approach LOS		F			F			F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 115.3	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.60	
Intersection Signal Delay: 211.8	Intersection LOS: F
Intersection Capacity Utilization 110.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	455	1884	91	268	1879	277	85	407	116	257	441	173
Future Volume (veh/h)	455	1884	91	268	1879	277	85	407	116	257	441	173
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	489	2026	83	288	2020	230	91	438	91	276	474	162
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	323	1431	444	345	1290	312	93	439	372	305	675	570
Arrive On Green	0.20	0.29	0.29	0.12	0.21	0.21	0.06	0.24	0.24	0.19	0.37	0.37
Sat Flow, veh/h	1619	4914	1525	2956	6192	1496	1619	1800	1524	1619	1800	1519
Grp Volume(v), veh/h	489	2026	83	288	2020	230	91	438	91	276	474	162
Grp Sat Flow(s),veh/h/ln	1619	1638	1525	1478	1548	1496	1619	1800	1524	1619	1800	1519
Q Serve(g_s), s	22.5	32.8	4.6	10.8	23.5	16.2	6.3	27.4	5.4	18.8	25.2	8.4
Cycle Q Clear(g_c), s	22.5	32.8	4.6	10.8	23.5	16.2	6.3	27.4	5.4	18.8	25.2	8.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	323	1431	444	345	1290	312	93	439	372	305	675	570
V/C Ratio(X)	1.51	1.42	0.19	0.84	1.57	0.74	0.98	1.00	0.24	0.90	0.70	0.28
Avail Cap(c_a), veh/h	323	1431	444	459	1290	312	93	439	372	409	790	667
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.1	40.0	30.0	48.7	44.6	41.8	53.1	42.6	34.3	44.7	29.9	24.7
Incr Delay (d2), s/veh	246.6	191.1	0.2	9.7	258.3	8.9	84.8	42.4	0.3	18.9	2.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	30.7	37.7	1.6	4.2	31.6	6.4	4.7	16.8	1.9	8.9	10.7	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	291.7	231.1	30.2	58.5	302.9	50.6	137.8	85.0	34.6	63.6	32.2	24.9
LnGrp LOS	F	F	C	E	F	D	F	F	C	E	C	C
Approach Vol, veh/h		2598			2538			620			912	
Approach Delay, s/veh		236.1			252.3			85.3			40.4	
Approach LOS		F			F			F			D	

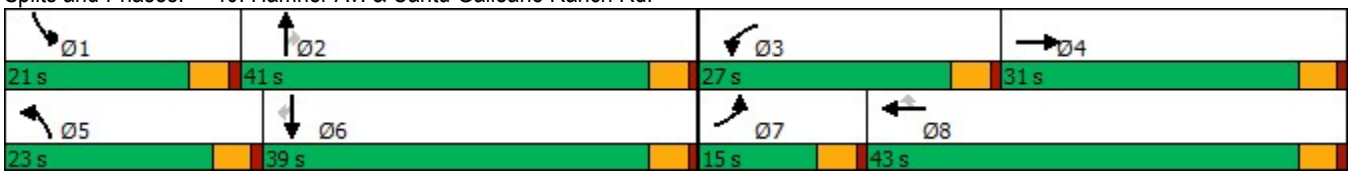
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.8	32.0	17.7	37.3	11.0	46.8	27.0	28.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	27.5	17.5	28.5	6.5	49.5	22.5	23.5
Max Q Clear Time (g_c+I1), s	20.8	29.4	12.8	34.8	8.3	27.2	24.5	25.5
Green Ext Time (p_c), s	0.5	0.0	0.4	0.0	0.0	3.2	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	201.5
HCM 6th LOS	F

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	908	1638	451	1771	354	362	439	356	641	836	763
Future Volume (vph)	908	1638	451	1771	354	362	439	356	641	836	763
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	27.0	43.0	43.0	23.0	41.0	41.0	21.0	39.0	39.0
Total Split (%)	12.5%	25.8%	22.5%	35.8%	35.8%	19.2%	34.2%	34.2%	17.5%	32.5%	32.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	10.5	28.9	20.2	38.5	38.5	16.9	34.9	34.9	16.5	34.5	34.5
Actuated g/C Ratio	0.09	0.24	0.17	0.33	0.33	0.14	0.29	0.29	0.14	0.29	0.29
v/c Ratio	3.08	1.35	0.80	1.59	0.57	0.77	0.30	0.53	1.38	0.84	1.31
Control Delay	964.2	199.0	57.8	298.4	20.2	59.7	32.9	9.0	223.7	47.8	180.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	964.2	199.0	57.8	298.4	20.2	59.7	32.9	9.0	223.7	47.8	180.5
LOS	F	F	E	F	C	E	C	A	F	D	F
Approach Delay		435.1		218.0			33.9			143.4	
Approach LOS		F		F			C			F	

Intersection Summary		
Cycle Length: 120		
Actuated Cycle Length: 118.4		
Natural Cycle: 120		
Control Type: Actuated-Uncoordinated		
Maximum v/c Ratio: 3.08		
Intersection Signal Delay: 247.0	Intersection LOS: F	
Intersection Capacity Utilization 123.3%	ICU Level of Service H	
Analysis Period (min) 15		

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	908	1638	398	451	1771	354	362	439	356	641	836	763
Future Volume (veh/h)	908	1638	398	451	1771	354	362	439	356	641	836	763
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	956	1724	362	475	1864	307	381	462	291	675	880	762
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	317	1444	303	548	1194	533	449	1466	455	498	1070	477
Arrive On Green	0.09	0.26	0.26	0.16	0.33	0.33	0.13	0.28	0.28	0.14	0.30	0.30
Sat Flow, veh/h	3510	5452	1144	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	956	1550	536	475	1864	307	381	462	291	675	880	762
Grp Sat Flow(s),veh/h/ln	1755	1634	1694	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	10.5	30.8	30.8	15.4	38.5	18.3	12.4	8.2	18.4	16.5	26.4	34.5
Cycle Q Clear(g_c), s	10.5	30.8	30.8	15.4	38.5	18.3	12.4	8.2	18.4	16.5	26.4	34.5
Prop In Lane	1.00		0.68	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	317	1298	449	548	1194	533	449	1466	455	498	1070	477
V/C Ratio(X)	3.02	1.19	1.19	0.87	1.56	0.58	0.85	0.32	0.64	1.36	0.82	1.60
Avail Cap(c_a), veh/h	317	1298	449	679	1194	533	558	1627	505	498	1070	477
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.9	42.8	42.8	47.9	38.9	32.2	49.6	32.9	36.6	49.9	38.1	40.9
Incr Delay (d2), s/veh	916.8	95.1	107.6	9.7	256.5	1.5	9.9	0.1	2.3	173.1	5.3	278.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	44.7	23.1	25.5	7.1	58.3	6.9	5.8	3.3	7.1	18.9	11.8	49.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	969.7	137.9	150.4	57.6	295.5	33.7	59.5	33.0	38.9	223.0	43.4	319.1
LnGrp LOS	F	F	F	E	F	C	E	C	D	F	D	F
Approach Vol, veh/h		3042			2646			1134			2317	
Approach Delay, s/veh		401.5			222.4			43.4			186.4	
Approach LOS		F			F			D			F	

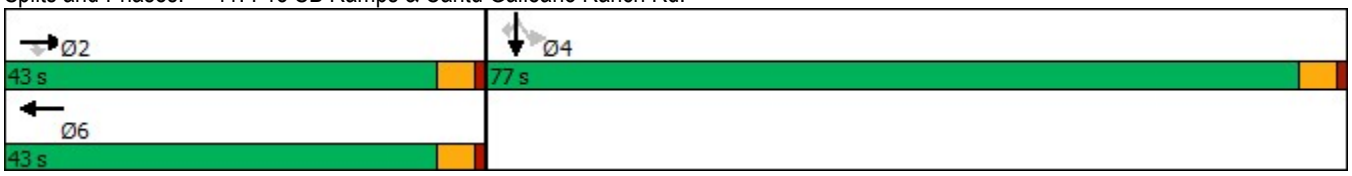
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.0	37.4	22.7	35.3	19.4	39.0	15.0	43.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	36.5	22.5	26.5	18.5	34.5	10.5	38.5
Max Q Clear Time (g_c+I1), s	18.5	20.4	17.4	32.8	14.4	36.5	12.5	40.5
Green Ext Time (p_c), s	0.0	3.4	0.8	0.0	0.5	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	250.7
HCM 6th LOS	F

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	2146	400	1246	580	365	1	1669
Future Volume (vph)	2146	400	1246	580	365	1	1669
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	43.0	43.0	43.0		77.0	77.0	77.0
Total Split (%)	35.8%	35.8%	35.8%		64.2%	64.2%	64.2%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	38.5	38.5	38.5	120.0	72.5	72.5	72.5
Actuated g/C Ratio	0.32	0.32	0.32	1.00	0.60	0.60	0.60
v/c Ratio	1.37	0.62	1.15	0.22	0.34	1.02	0.97
Control Delay	204.8	18.2	113.6	0.2	12.9	59.2	46.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	204.8	18.2	113.6	0.2	12.9	59.2	46.9
LOS	F	B	F	A	B	E	D
Approach Delay	175.4		77.6			46.6	
Approach LOS	F		E			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.37	
Intersection Signal Delay: 106.6	Intersection LOS: F
Intersection Capacity Utilization 110.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	2146	400	0	1246	580	0	0	0	365	1	1669
Future Volume (veh/h)	0	2146	400	0	1246	580	0	0	0	365	1	1669
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	2283	0	0	1326	0				259	0	1330
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94				0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	2186		0	1521					869	0	1546
Arrive On Green	0.00	0.42	0.00	0.00	0.42	0.00				0.48	0.00	0.48
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	2283	0	0	1326	0				259	0	1330
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	38.5	0.0	0.0	30.7	0.0				7.9	0.0	33.4
Cycle Q Clear(g_c), s	0.0	38.5	0.0	0.0	30.7	0.0				7.9	0.0	33.4
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2186		0	1521					869	0	1546
V/C Ratio(X)	0.00	1.04		0.00	0.87					0.30	0.00	0.86
Avail Cap(c_a), veh/h	0	2186		0	1521					1436	0	2555
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	26.4	0.0	0.0	24.2	0.0				14.4	0.0	21.0
Incr Delay (d2), s/veh	0.0	32.1	0.0	0.0	5.8	0.0				0.2	0.0	1.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	19.9	0.0	0.0	12.4	0.0				3.0	0.0	11.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	58.5	0.0	0.0	30.0	0.0				14.6	0.0	22.8
LnGrp LOS	A	F		A	C					B	A	C
Approach Vol, veh/h		2283	A		1326	A					1589	
Approach Delay, s/veh		58.5			30.0						21.4	
Approach LOS		E			C						C	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	43.0	48.4	43.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	38.5	72.5	38.5
Max Q Clear Time (g_c+I1), s	40.5	35.4	32.7
Green Ext Time (p_c), s	0.0	8.5	3.7

Intersection Summary	
HCM 6th Ctrl Delay	39.9
HCM 6th LOS	D

Notes

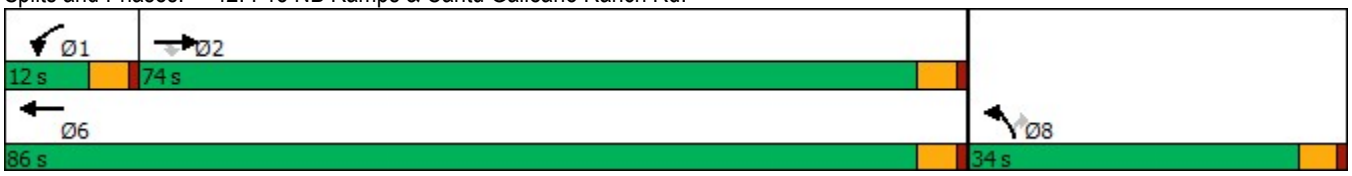
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	913	1600	265	759	1035	186
Future Volume (vph)	913	1600	265	759	1035	186
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	74.0	74.0	12.0	86.0	34.0	34.0
Total Split (%)	61.7%	61.7%	10.0%	71.7%	28.3%	28.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	69.5	69.5	7.5	81.5	29.5	29.5
Actuated g/C Ratio	0.58	0.58	0.06	0.68	0.25	0.25
v/c Ratio	0.29	1.28	1.23	0.20	1.24	0.35
Control Delay	13.0	148.0	181.2	7.3	154.5	11.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	13.0	148.0	181.2	7.3	154.5	11.2
LOS	B	F	F	A	F	B
Approach Delay	99.0			52.3	134.8	
Approach LOS	F			D	F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.28	
Intersection Signal Delay: 98.1	Intersection LOS: F
Intersection Capacity Utilization 114.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	913	1600	265	759	1035	186
Future Volume (veh/h)	913	1600	265	759	1035	186
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	951	855	276	791	1078	100
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	3151	890	240	3757	945	421
Arrive On Green	0.80	0.80	0.10	0.95	0.38	0.38
Sat Flow, veh/h	5700	1610	3619	5700	3619	1610
Grp Volume(v), veh/h	951	855	276	791	1078	100
Grp Sat Flow(s),veh/h/ln	1900	1610	1810	1900	1810	1610
Q Serve(g_s), s	5.1	52.0	7.5	1.0	29.5	4.8
Cycle Q Clear(g_c), s	5.1	52.0	7.5	1.0	29.5	4.8
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	3151	890	240	3757	945	421
V/C Ratio(X)	0.30	0.96	1.15	0.21	1.14	0.24
Avail Cap(c_a), veh/h	3508	991	240	4114	945	421
HCM Platoon Ratio	1.44	1.44	1.44	1.44	1.44	1.44
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	5.7	10.4	51.1	1.0	35.2	27.5
Incr Delay (d2), s/veh	0.1	18.8	103.9	0.0	76.0	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	9.8	6.6	0.3	20.9	1.8
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	5.7	29.2	155.0	1.0	111.2	27.8
LnGrp LOS	A	C	F	A	F	C
Approach Vol, veh/h	1806			1067	1178	
Approach Delay, s/veh	16.9			40.9	104.1	
Approach LOS	B			D	F	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	12.0	66.9				78.9	34.0
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	7.5	69.5				81.5	29.5
Max Q Clear Time (g_c+I1), s	9.5	54.0				3.0	31.5
Green Ext Time (p_c), s	0.0	8.5				5.4	0.0

Intersection Summary		
HCM 6th Ctrl Delay	48.5	
HCM 6th LOS	D	

Notes

User approved volume balancing among the lanes for turning movement.

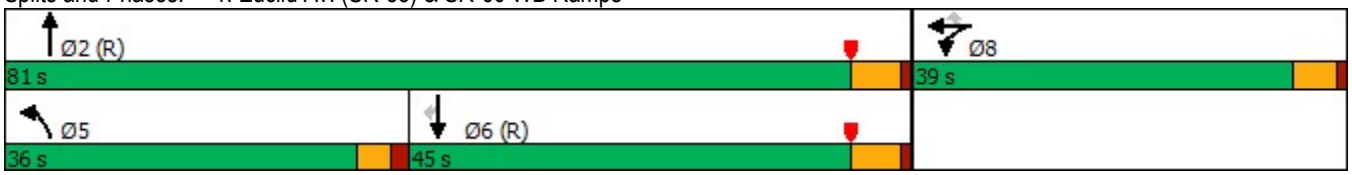
APPENDIX 7.2: HORIZON YEAR (2050) WITH PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS

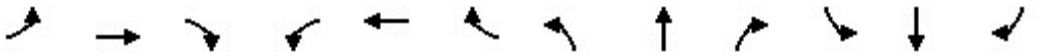
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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	894	8	447	665	1668	1400	426
Future Volume (vph)	894	8	447	665	1668	1400	426
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5	22.5
Total Split (s)	39.0	39.0	39.0	36.0	81.0	45.0	45.0
Total Split (%)	32.5%	32.5%	32.5%	30.0%	67.5%	37.5%	37.5%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5	5.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	C-Min	C-Min	C-Min
Act Effct Green (s)	34.0	34.0	34.0	31.5	75.5	39.5	39.5
Actuated g/C Ratio	0.28	0.28	0.28	0.26	0.63	0.33	0.33
v/c Ratio	1.05	1.10	0.90	1.51	0.79	1.27	0.63
Control Delay	96.5	111.2	58.7	269.7	19.5	161.9	16.7
Queue Delay	18.9	1.7	0.0	0.0	27.6	0.0	0.0
Total Delay	115.4	112.9	58.7	269.7	47.0	161.9	16.7
LOS	F	F	E	F	D	F	B
Approach Delay		97.6			110.5	128.0	
Approach LOS		F			F	F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 120	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.51	
Intersection Signal Delay: 113.2	Intersection LOS: F
Intersection Capacity Utilization 180.5%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	894	8	447	665	1668	0	0	1400	426
Future Volume (veh/h)	0	0	0	894	8	447	665	1668	0	0	1400	426
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				1061	0	210	715	1794	0	0	1505	291
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				1025	0	456	475	2271	0	0	1188	530
Arrive On Green				0.28	0.00	0.28	0.52	1.00	0.00	0.00	0.33	0.33
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				1061	0	210	715	1794	0	0	1505	291
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				34.0	0.0	12.9	31.5	0.0	0.0	0.0	39.5	17.8
Cycle Q Clear(g_c), s				34.0	0.0	12.9	31.5	0.0	0.0	0.0	39.5	17.8
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1025	0	456	475	2271	0	0	1188	530
V/C Ratio(X)				1.03	0.00	0.46	1.51	0.79	0.00	0.00	1.27	0.55
Avail Cap(c_a), veh/h				1025	0	456	475	2271	0	0	1188	530
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.09	0.09	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				43.0	0.0	35.4	28.5	0.0	0.0	0.0	40.2	33.0
Incr Delay (d2), s/veh				37.5	0.0	0.3	228.4	0.3	0.0	0.0	126.7	4.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				19.9	0.0	4.9	39.3	0.1	0.0	0.0	37.8	7.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				80.5	0.0	35.7	256.9	0.3	0.0	0.0	167.0	37.0
LnGrp LOS				F	A	D	F	A	A	A	F	D
Approach Vol, veh/h					1271			2509			1796	
Approach Delay, s/veh					73.1			73.4			145.9	
Approach LOS					E			E			F	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	81.0		36.0	45.0		39.0						
Change Period (Y+Rc), s	5.5		4.5	5.5		5.0						
Max Green Setting (Gmax), s	75.5		31.5	39.5		34.0						
Max Q Clear Time (g_c+I1), s	2.0		33.5	41.5		36.0						
Green Ext Time (p_c), s	38.7		0.0	0.0		0.0						

Intersection Summary		
HCM 6th Ctrl Delay	96.7	
HCM 6th LOS	F	

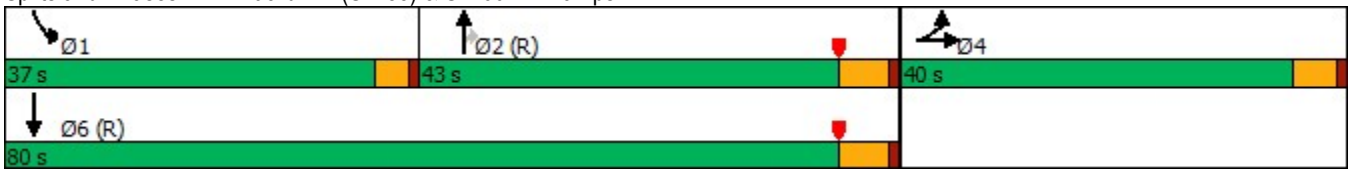
Notes

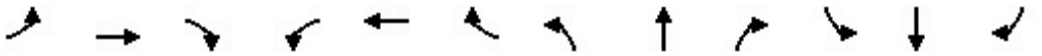
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	539	0	1462	946	452	1561
Future Volume (vph)	539	0	1462	946	452	1561
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	40.0	40.0	43.0	43.0	37.0	80.0
Total Split (%)	33.3%	33.3%	35.8%	35.8%	30.8%	66.7%
Yellow Time (s)	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	35.0	35.0	38.2	38.2	32.3	74.5
Actuated g/C Ratio	0.29	0.29	0.32	0.32	0.27	0.62
v/c Ratio	1.00	2.49	1.31	1.09	0.96	0.72
Control Delay	83.2	695.1	180.5	72.7	62.0	18.8
Queue Delay	40.1	6.8	0.2	0.0	4.8	18.8
Total Delay	123.4	702.0	180.7	72.7	66.8	37.6
LOS	F	F	F	E	E	D
Approach Delay		534.1	138.3			44.1
Approach LOS		F	F			D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 110	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 2.49	
Intersection Signal Delay: 215.8	Intersection LOS: F
Intersection Capacity Utilization 180.5%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	539	0	1132	0	0	0	0	1462	946	452	1561	0
Future Volume (veh/h)	539	0	1132	0	0	0	0	1462	946	452	1561	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	556	0	1088				0	1507	780	466	1609	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	528	0	470				0	1160	503	482	2241	0
Arrive On Green	0.29	0.00	0.29				0.00	0.32	0.32	0.53	1.00	0.00
Sat Flow, veh/h	1810	0	1610				0	3705	1566	1810	3705	0
Grp Volume(v), veh/h	556	0	1088				0	1507	780	466	1609	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1566	1810	1805	0
Q Serve(g_s), s	35.0	0.0	35.0				0.0	38.6	38.6	29.8	0.0	0.0
Cycle Q Clear(g_c), s	35.0	0.0	35.0				0.0	38.6	38.6	29.8	0.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	528	0	470				0	1160	503	482	2241	0
V/C Ratio(X)	1.05	0.00	2.32				0.00	1.30	1.55	0.97	0.72	0.00
Avail Cap(c_a), veh/h	528	0	470				0	1160	503	498	2241	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.15	0.15	0.09	0.09	0.00
Uniform Delay (d), s/veh	42.5	0.0	42.5				0.0	40.7	40.7	27.6	0.0	0.0
Incr Delay (d2), s/veh	54.0	0.0	599.2				0.0	135.5	248.8	6.2	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	22.9	0.0	91.4				0.0	38.3	49.1	9.4	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	96.5	0.0	641.7				0.0	176.2	289.5	33.8	0.2	0.0
LnGrp LOS	F	A	F				A	F	F	C	A	A
Approach Vol, veh/h		1644						2287			2075	
Approach Delay, s/veh		457.3						214.9			7.7	
Approach LOS		F						F			A	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	35.9	44.1		40.0		80.0
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	33.0	37.5		35.0		74.5
Max Q Clear Time (g_c+I1), s	31.8	40.6		37.0		2.0
Green Ext Time (p_c), s	0.1	0.0		0.0		31.5

Intersection Summary		
HCM 6th Ctrl Delay		209.7
HCM 6th LOS		F

Notes

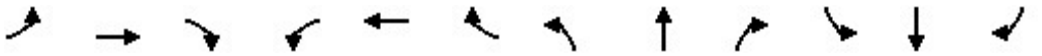
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	115	328	163	450	136	1885	62	216	2261	69
Future Volume (vph)	115	328	163	450	136	1885	62	216	2261	69
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	10.0	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	9.6	29.8	9.6	29.8	9.6	27.4	27.4	9.6	29.4	29.4
Total Split (s)	21.0	34.6	17.4	31.0	23.0	50.6	50.6	17.4	45.0	45.0
Total Split (%)	17.5%	28.8%	14.5%	25.8%	19.2%	42.2%	42.2%	14.5%	37.5%	37.5%
Yellow Time (s)	3.6	4.8	3.6	4.8	3.6	4.4	4.4	3.6	4.4	4.4
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	4.6	5.4	5.4	4.6	5.4	5.4
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	12.2	23.1	12.9	23.7	13.7	45.4	45.4	11.5	43.2	43.2
Actuated g/C Ratio	0.11	0.20	0.11	0.21	0.12	0.40	0.40	0.10	0.38	0.38
v/c Ratio	0.68	0.70	0.92	0.87	0.72	0.90	0.10	0.72	1.13	0.11
Control Delay	69.3	36.9	100.0	53.1	68.7	39.5	1.1	64.3	100.7	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	69.3	36.9	100.0	53.1	68.7	39.5	1.1	64.3	100.7	0.3
LOS	E	D	F	D	E	D	A	E	F	A
Approach Delay		42.6		62.6		40.2			94.9	
Approach LOS		D		E		D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 113.3	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.13	
Intersection Signal Delay: 66.3	Intersection LOS: E
Intersection Capacity Utilization 98.3%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	115	328	210	163	450	188	136	1885	62	216	2261	69
Future Volume (veh/h)	115	328	210	163	450	188	136	1885	62	216	2261	69
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	119	338	113	168	464	101	140	1943	38	223	2331	45
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	144	433	142	194	567	123	167	2312	653	280	2251	635
Arrive On Green	0.09	0.17	0.17	0.12	0.20	0.20	0.10	0.43	0.43	0.09	0.42	0.42
Sat Flow, veh/h	1619	2594	852	1619	2867	620	1619	5400	1524	3048	5400	1524
Grp Volume(v), veh/h	119	233	218	168	290	275	140	1943	38	223	2331	45
Grp Sat Flow(s),veh/h/ln	1619	1800	1647	1619	1800	1686	1619	1800	1524	1524	1800	1524
Q Serve(g_s), s	7.6	13.1	13.4	10.8	16.3	16.5	9.0	33.9	1.5	7.6	44.0	1.9
Cycle Q Clear(g_c), s	7.6	13.1	13.4	10.8	16.3	16.5	9.0	33.9	1.5	7.6	44.0	1.9
Prop In Lane	1.00		0.52	1.00		0.37	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	144	300	275	194	356	334	167	2312	653	280	2251	635
V/C Ratio(X)	0.83	0.77	0.79	0.86	0.81	0.82	0.84	0.84	0.06	0.80	1.04	0.07
Avail Cap(c_a), veh/h	252	491	449	196	430	403	282	2312	653	370	2251	635
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.3	42.1	42.2	45.6	40.5	40.6	46.5	27.0	17.7	47.0	30.8	18.5
Incr Delay (d2), s/veh	4.5	4.3	5.2	29.4	9.8	11.1	4.3	3.9	0.2	6.4	28.9	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.2	5.9	5.6	5.8	7.9	7.6	3.7	14.4	0.5	3.1	23.7	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.8	46.3	47.4	75.0	50.3	51.7	50.8	30.9	17.9	53.4	59.7	18.7
LnGrp LOS	D	D	D	E	D	D	D	C	B	D	F	B
Approach Vol, veh/h		570			733			2121			2599	
Approach Delay, s/veh		47.9			56.5			31.9			58.4	
Approach LOS		D			E			C			E	

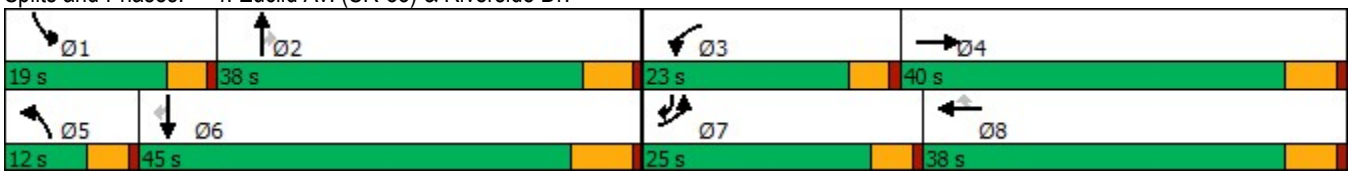
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.3	50.6	17.3	23.4	15.5	49.4	14.0	26.7
Change Period (Y+Rc), s	4.6	5.4	4.6	5.8	4.6	5.4	4.6	5.8
Max Green Setting (Gmax), s	12.8	45.2	12.8	28.8	18.4	39.6	16.4	25.2
Max Q Clear Time (g_c+I1), s	9.6	35.9	12.8	15.4	11.0	46.0	9.6	18.5
Green Ext Time (p_c), s	0.1	7.4	0.0	2.0	0.1	0.0	0.1	1.7

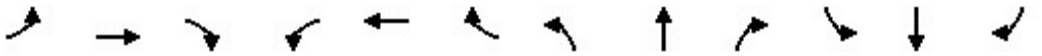
Intersection Summary	
HCM 6th Ctrl Delay	47.9
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	203	811	268	556	118	236	1636	326	267	2161	164
Future Volume (vph)	203	811	268	556	118	236	1636	326	267	2161	164
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	25.0	40.0	23.0	38.0	38.0	12.0	38.0	38.0	19.0	45.0	25.0
Total Split (%)	20.8%	33.3%	19.2%	31.7%	31.7%	10.0%	31.7%	31.7%	15.8%	37.5%	20.8%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	18.2	34.2	18.4	34.4	34.4	7.4	32.6	32.6	14.4	38.5	63.2
Actuated g/C Ratio	0.15	0.28	0.15	0.29	0.29	0.06	0.27	0.27	0.12	0.32	0.53
v/c Ratio	0.84	2.08	1.11	0.58	0.22	2.43	1.80	0.62	1.41	2.01	0.20
Control Delay	78.0	519.0	135.3	40.0	3.1	699.0	391.1	23.4	251.0	482.8	8.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	78.0	519.0	135.3	40.0	3.1	699.0	391.1	23.4	251.0	482.8	8.9
LOS	E	F	F	D	A	F	F	C	F	F	A
Approach Delay		446.3		62.5			369.6			429.1	
Approach LOS		F		E			F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.43	
Intersection Signal Delay: 363.8	Intersection LOS: F
Intersection Capacity Utilization 171.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	203	811	216	268	556	118	236	1636	326	267	2161	164
Future Volume (veh/h)	203	811	216	268	556	118	236	1636	326	267	2161	164
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.99	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	207	828	193	273	567	68	241	1669	291	272	2205	112
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	231	398	93	246	997	438	99	921	411	193	1118	717
Arrive On Green	0.14	0.28	0.28	0.15	0.29	0.29	0.06	0.27	0.27	0.12	0.33	0.33
Sat Flow, veh/h	1619	1408	328	1619	3420	1503	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	207	0	1021	273	567	68	241	1669	291	272	2205	112
Grp Sat Flow(s),veh/h/ln	1619	0	1736	1619	1710	1503	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	15.2	0.0	34.2	18.4	17.0	4.1	7.4	32.6	20.9	14.4	39.6	5.1
Cycle Q Clear(g_c), s	15.2	0.0	34.2	18.4	17.0	4.1	7.4	32.6	20.9	14.4	39.6	5.1
Prop In Lane	1.00		0.19	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	231	0	490	246	997	438	99	921	411	193	1118	717
V/C Ratio(X)	0.90	0.00	2.08	1.11	0.57	0.16	2.44	1.81	0.71	1.41	1.97	0.16
Avail Cap(c_a), veh/h	273	0	490	246	997	438	99	921	411	193	1118	717
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.0	0.0	43.5	51.3	36.4	31.8	56.9	44.3	40.0	53.4	40.8	18.4
Incr Delay (d2), s/veh	24.5	0.0	494.2	90.0	0.8	0.2	675.7	370.1	5.6	213.6	440.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.6	0.0	81.3	13.4	7.0	1.5	21.5	60.3	8.2	17.2	84.4	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	75.5	0.0	537.6	141.3	37.2	32.0	732.5	414.3	45.5	267.0	481.2	18.5
LnGrp LOS	E	A	F	F	D	C	F	F	D	F	F	B
Approach Vol, veh/h		1228			908			2201			2589	
Approach Delay, s/veh		459.7			68.1			400.4			438.7	
Approach LOS		F			E			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	39.1	23.0	40.0	12.0	46.1	21.9	41.1
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	14.4	* 33	18.4	34.2	7.4	38.5	20.4	32.2
Max Q Clear Time (g_c+I1), s	16.4	34.6	20.4	36.2	9.4	41.6	17.2	19.0
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.1	3.0

Intersection Summary	
HCM 6th Ctrl Delay	381.7
HCM 6th LOS	F

Notes

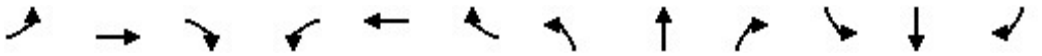
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	143	285	92	131	379	78	2085	213	124	2334	154
Future Volume (vph)	143	285	92	131	379	78	2085	213	124	2334	154
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	52.0	52.0	52.0	52.0	52.0	12.0	52.0	52.0	16.0	56.0	56.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	43.3%	10.0%	43.3%	43.3%	13.3%	46.7%	46.7%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	46.2	46.2	46.2		46.2	7.3	47.1	47.1	11.0	49.5	49.5
Actuated g/C Ratio	0.39	0.39	0.39		0.39	0.06	0.39	0.39	0.09	0.41	0.41
v/c Ratio	0.90	0.43	0.15		1.62	0.83	1.62	0.35	0.87	1.72	0.24
Control Delay	85.6	29.6	5.2		317.0	108.3	309.6	19.4	99.9	354.9	13.6
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	85.6	29.6	5.2		317.0	108.3	309.6	19.4	99.9	354.9	13.6
LOS	F	C	A		F	F	F	B	F	F	B
Approach Delay		40.7			317.0		277.0			322.7	
Approach LOS		D			F		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.9	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.72	
Intersection Signal Delay: 281.2	Intersection LOS: F
Intersection Capacity Utilization 151.7%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	143	285	92	131	379	238	78	2085	213	124	2334	154
Future Volume (veh/h)	143	285	92	131	379	238	78	2085	213	124	2334	154
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	149	297	75	136	395	247	81	2172	182	129	2431	123
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	183	686	581	102	224	136	99	1320	589	152	1432	639
Arrive On Green	0.38	0.38	0.38	0.38	0.38	0.38	0.06	0.39	0.39	0.09	0.42	0.42
Sat Flow, veh/h	716	1800	1525	177	588	356	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	149	297	75	778	0	0	81	2172	182	129	2431	123
Grp Sat Flow(s),veh/h/ln	716	1800	1525	1121	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	14.8	3.9	31.4	0.0	0.0	6.0	46.8	10.1	9.5	50.8	6.2
Cycle Q Clear(g_c), s	46.2	14.8	3.9	46.2	0.0	0.0	6.0	46.8	10.1	9.5	50.8	6.2
Prop In Lane	1.00		1.00	0.17		0.32	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	183	686	581	462	0	0	99	1320	589	152	1432	639
V/C Ratio(X)	0.81	0.43	0.13	1.68	0.00	0.00	0.82	1.65	0.31	0.85	1.70	0.19
Avail Cap(c_a), veh/h	183	686	581	462	0	0	99	1320	589	152	1432	639
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.5	27.8	24.4	43.6	0.0	0.0	56.3	37.2	26.0	54.1	35.3	22.3
Incr Delay (d2), s/veh	23.7	0.4	0.1	317.2	0.0	0.0	37.8	294.0	1.4	32.6	317.1	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.7	6.2	1.4	54.4	0.0	0.0	3.4	71.8	3.7	5.1	82.2	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	65.2	28.3	24.5	360.8	0.0	0.0	94.1	331.2	27.3	86.7	352.4	23.0
LnGrp LOS	E	C	C	F	A	A	F	F	C	F	F	C
Approach Vol, veh/h		521			778			2435			2683	
Approach Delay, s/veh		38.3			360.8			300.6			324.5	
Approach LOS		D			F			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	16.0	53.3		52.0	12.0	57.3		52.0				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 47		46.2	7.4	49.5		46.2				
Max Q Clear Time (g_c+I1), s	11.5	48.8		48.2	8.0	52.8		48.2				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0				

Intersection Summary		
HCM 6th Ctrl Delay		296.6
HCM 6th LOS		F

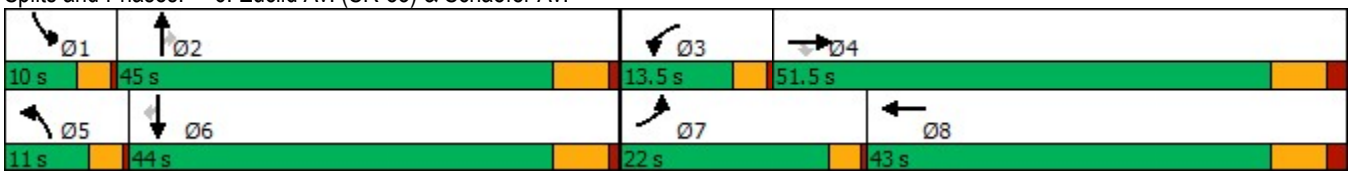
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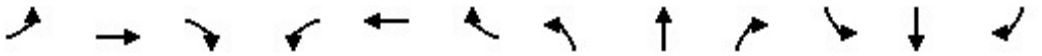
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	425	179	181	4	28	139	1995	85	142	2271	188
Future Volume (vph)	425	179	181	4	28	139	1995	85	142	2271	188
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	22.0	51.5	51.5	13.5	43.0	11.0	45.0	45.0	10.0	44.0	44.0
Total Split (%)	18.3%	42.9%	42.9%	11.3%	35.8%	9.2%	37.5%	37.5%	8.3%	36.7%	36.7%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	19.0	25.5	25.5	10.3	10.7	7.7	40.0	40.0	6.7	39.0	39.0
Actuated g/C Ratio	0.21	0.28	0.28	0.11	0.12	0.08	0.44	0.44	0.07	0.43	0.43
v/c Ratio	1.32	0.37	0.34	0.02	0.21	1.07	1.38	0.12	1.25	1.62	0.27
Control Delay	195.0	27.9	5.4	44.5	27.1	140.6	202.1	1.8	206.6	304.9	9.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	195.0	27.9	5.4	44.5	27.1	140.6	202.1	1.8	206.6	304.9	9.5
LOS	F	C	A	D	C	F	F	A	F	F	A
Approach Delay		113.2			28.5		190.6			278.2	
Approach LOS		F			C		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 91.2	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.62	
Intersection Signal Delay: 218.8	Intersection LOS: F
Intersection Capacity Utilization 122.0%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	425	179	181	4	28	16	139	1995	85	142	2271	188
Future Volume (veh/h)	425	179	181	4	28	16	139	1995	85	142	2271	188
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	443	186	152	4	29	14	145	2078	89	148	2366	159
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	337	456	387	17	64	31	136	1499	668	118	1460	651
Arrive On Green	0.21	0.25	0.25	0.01	0.06	0.06	0.08	0.44	0.44	0.07	0.43	0.43
Sat Flow, veh/h	1619	1800	1525	1619	1147	554	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	443	186	152	4	0	43	145	2078	89	148	2366	159
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1700	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	18.5	7.7	7.4	0.2	0.0	2.2	7.5	39.0	3.1	6.5	38.0	5.9
Cycle Q Clear(g_c), s	18.5	7.7	7.4	0.2	0.0	2.2	7.5	39.0	3.1	6.5	38.0	5.9
Prop In Lane	1.00		1.00	1.00		0.33	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	337	456	387	17	0	96	136	1499	668	118	1460	651
V/C Ratio(X)	1.32	0.41	0.39	0.23	0.00	0.45	1.06	1.39	0.13	1.25	1.62	0.24
Avail Cap(c_a), veh/h	337	900	763	182	0	688	136	1499	668	118	1460	651
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.2	27.7	27.5	43.7	0.0	40.7	40.7	25.0	14.9	41.2	25.5	16.3
Incr Delay (d2), s/veh	161.9	0.4	0.5	2.6	0.0	2.4	94.8	178.2	0.1	165.1	282.3	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	21.9	3.1	2.6	0.1	0.0	0.9	6.4	50.3	1.0	7.8	70.2	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	197.2	28.1	28.0	46.2	0.0	43.1	135.5	203.2	15.0	206.4	307.8	16.5
LnGrp LOS	F	C	C	D	A	D	F	F	B	F	F	B
Approach Vol, veh/h		781			47			2312			2673	
Approach Delay, s/veh		124.0			43.4			191.7			284.9	
Approach LOS		F			D			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	45.0	4.4	29.6	11.0	44.0	22.0	12.0
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	6.5	39.0	10.0	44.5	7.5	38.0	18.5	36.0
Max Q Clear Time (g_c+I1), s	8.5	41.0	2.2	9.7	9.5	40.0	20.5	4.2
Green Ext Time (p_c), s	0.0	0.0	0.0	1.1	0.0	0.0	0.0	0.1

Intersection Summary	
HCM 6th Ctrl Delay	224.2
HCM 6th LOS	F

Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	4	1293	10	0	2322
Future Vol, veh/h	0	4	1293	10	0	2322
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	4	1405	11	0	2524

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	708	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	382	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	382	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	14.5	0	0
HCM LOS	B		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	382	-
HCM Lane V/C Ratio	-	-	0.011	-
HCM Control Delay (s)	-	-	14.5	-
HCM Lane LOS	-	-	B	-
HCM 95th %tile Q(veh)	-	-	0	-

Intersection	
Int Delay, s/veh	0

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	12	1292	37	0	2322
Future Vol, veh/h	0	12	1292	37	0	2322
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	13	1404	40	0	2524

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	722	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	374	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	374	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	15	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	374	-
HCM Lane V/C Ratio	-	-	0.035	-
HCM Control Delay (s)	-	-	15	-
HCM Lane LOS	-	-	C	-
HCM 95th %tile Q(veh)	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	13	1315	33	0	2322
Future Vol, veh/h	0	13	1315	33	0	2322
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	14	1429	36	0	2524

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	733	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	368	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	368	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	15.2	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	368	-
HCM Lane V/C Ratio	-	-	0.038	-
HCM Control Delay (s)	-	-	15.2	-
HCM Lane LOS	-	-	C	-
HCM 95th %tile Q(veh)	-	-	0.1	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	61	1287	69	0	2322
Future Vol, veh/h	0	61	1287	69	0	2322
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	66	1399	75	0	2524

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	737	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	365	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	365	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

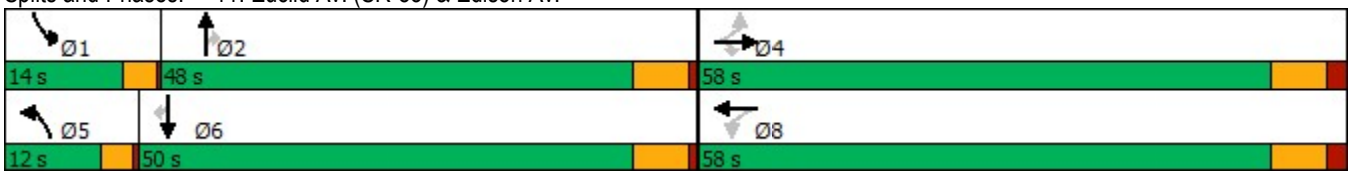
Approach	WB	NB	SB
HCM Control Delay, s	17	0	0
HCM LOS	C		

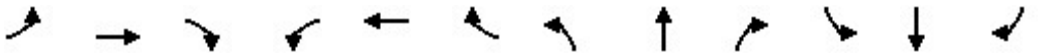
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	365	-
HCM Lane V/C Ratio	-	-	0.182	-
HCM Control Delay (s)	-	-	17	-
HCM Lane LOS	-	-	C	-
HCM 95th %tile Q(veh)	-	-	0.7	-

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	432	865	220	415	893	179	1173	191	589	1682	278
Future Volume (vph)	432	865	220	415	893	179	1173	191	589	1682	278
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	58.0	58.0	58.0	58.0	58.0	12.0	48.0	48.0	14.0	50.0	50.0
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	10.0%	40.0%	40.0%	11.7%	41.7%	41.7%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	51.0	51.0	51.0	51.0	51.0	8.5	42.0	42.0	10.5	44.0	44.0
Actuated g/C Ratio	0.42	0.42	0.42	0.42	0.42	0.07	0.35	0.35	0.09	0.37	0.37
v/c Ratio	7.95	1.17	0.31	7.64	2.27	0.84	1.01	0.35	4.30	1.38	0.48
Control Delay	3169.4	121.4	9.5	3033.2	597.6	85.2	67.6	20.5	1517.3	209.2	25.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	3169.4	121.4	9.5	3033.2	597.6	85.2	67.6	20.5	1517.3	209.2	25.1
LOS	F	F	A	F	F	F	E	C	F	F	C
Approach Delay		972.4			1095.7		63.8			491.2	
Approach LOS		F			F		E			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 7.95	
Intersection Signal Delay: 661.1	Intersection LOS: F
Intersection Capacity Utilization 213.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	432	865	220	415	893	722	179	1173	191	589	1682	278
Future Volume (veh/h)	432	865	220	415	893	722	179	1173	191	589	1682	278
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	445	892	191	428	921	734	185	1209	190	607	1734	252
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	60	765	648	60	394	314	222	1197	532	142	1254	559
Arrive On Green	0.43	0.43	0.43	0.43	0.43	0.43	0.07	0.35	0.35	0.09	0.37	0.37
Sat Flow, veh/h	274	1800	1524	473	927	739	3141	3420	1521	1619	3420	1524
Grp Volume(v), veh/h	445	892	191	428	0	1655	185	1209	190	607	1734	252
Grp Sat Flow(s),veh/h/ln	274	1800	1524	473	0	1665	1570	1710	1521	1619	1710	1524
Q Serve(g_s), s	0.0	51.0	9.9	0.0	0.0	51.0	7.0	42.0	11.1	10.5	44.0	15.1
Cycle Q Clear(g_c), s	51.0	51.0	9.9	51.0	0.0	51.0	7.0	42.0	11.1	10.5	44.0	15.1
Prop In Lane	1.00		1.00	1.00		0.44	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	60	765	648	60	0	708	222	1197	532	142	1254	559
V/C Ratio(X)	7.42	1.17	0.29	7.13	0.00	2.34	0.83	1.01	0.36	4.28	1.38	0.45
Avail Cap(c_a), veh/h	60	765	648	60	0	708	222	1197	532	142	1254	559
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	60.0	34.5	22.7	60.0	0.0	34.5	55.0	39.0	29.0	54.8	38.0	28.8
Incr Delay (d2), s/veh	2921.8	88.6	0.3	2794.5	0.0	606.7	21.5	28.5	0.4	1494.5	177.3	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	50.5	39.6	3.5	48.4	0.0	138.5	3.3	21.0	3.9	62.9	47.8	5.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	2981.8	123.1	22.9	2854.5	0.0	641.2	76.5	67.5	29.4	1549.3	215.3	29.4
LnGrp LOS	F	F	C	F	A	F	E	F	C	F	F	C
Approach Vol, veh/h		1528			2083			1584			2593	
Approach Delay, s/veh		943.1			1096.0			64.0			509.5	
Approach LOS		F			F			E			F	

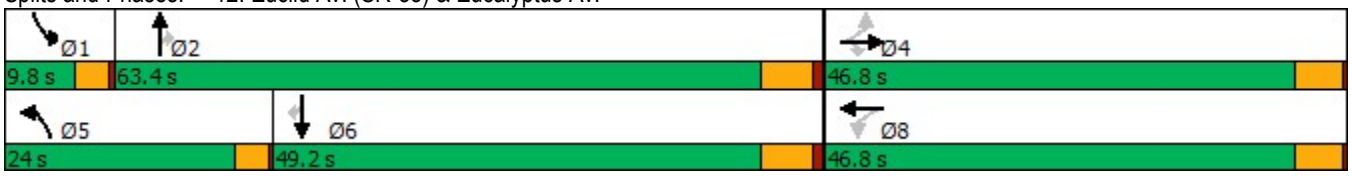
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.0	48.0		58.0	12.0	50.0		58.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	10.5	42.0		51.0	8.5	44.0		51.0				
Max Q Clear Time (g_c+I1), s	12.5	44.0		53.0	9.0	46.0		53.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0				

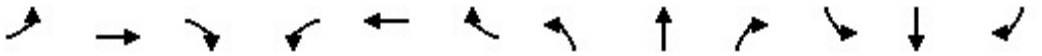
Intersection Summary		
HCM 6th Ctrl Delay		660.8
HCM 6th LOS		F

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	78	204	186	41	183	186	1214	142	288	1824	43
Future Volume (vph)	78	204	186	41	183	186	1214	142	288	1824	43
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	24.0	63.4	63.4	9.8	49.2	49.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	20.0%	52.8%	52.8%	8.2%	41.0%	41.0%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	23.1	23.1	23.1	23.1	23.1	16.3	54.1	54.1	6.4	44.3	44.3
Actuated g/C Ratio	0.24	0.24	0.24	0.24	0.24	0.17	0.55	0.55	0.07	0.45	0.45
v/c Ratio	0.71	0.52	0.39	0.23	0.75	0.75	0.69	0.18	2.95	1.27	0.06
Control Delay	66.5	36.6	6.4	32.9	43.0	58.3	19.8	9.1	917.3	152.5	1.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	66.5	36.6	6.4	32.9	43.0	58.3	19.8	9.1	917.3	152.5	1.7
LOS	E	D	A	C	D	E	B	A	F	F	A
Approach Delay		29.6			41.8		23.4			251.8	
Approach LOS		C			D		C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 97.9	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.95	
Intersection Signal Delay: 134.8	Intersection LOS: F
Intersection Capacity Utilization 103.0%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	78	204	186	41	183	112	186	1214	142	288	1824	43
Future Volume (veh/h)	78	204	186	41	183	112	186	1214	142	288	1824	43
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	84	219	115	44	197	114	200	1305	151	310	1961	34
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	186	504	427	244	299	173	230	1765	787	102	1495	666
Arrive On Green	0.28	0.28	0.28	0.28	0.28	0.28	0.14	0.52	0.52	0.06	0.44	0.44
Sat Flow, veh/h	971	1800	1525	951	1070	619	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	84	219	115	44	0	311	200	1305	151	310	1961	34
Grp Sat Flow(s),veh/h/ln	971	1800	1525	951	0	1689	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	8.3	9.9	5.8	4.0	0.0	16.2	12.0	29.7	5.3	6.3	43.5	1.3
Cycle Q Clear(g_c), s	24.5	9.9	5.8	13.9	0.0	16.2	12.0	29.7	5.3	6.3	43.5	1.3
Prop In Lane	1.00		1.00	1.00		0.37	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	186	504	427	244	0	473	230	1765	787	102	1495	666
V/C Ratio(X)	0.45	0.43	0.27	0.18	0.00	0.66	0.87	0.74	0.19	3.02	1.31	0.05
Avail Cap(c_a), veh/h	324	760	644	379	0	713	334	1983	884	102	1495	666
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	42.4	29.4	27.9	35.1	0.0	31.6	41.8	18.8	12.9	46.6	28.0	16.1
Incr Delay (d2), s/veh	1.3	0.4	0.2	0.3	0.0	1.2	13.7	1.3	0.1	936.5	145.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	4.2	2.1	0.9	0.0	6.4	5.4	10.2	1.6	29.1	45.5	0.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	43.7	29.8	28.2	35.3	0.0	32.8	55.4	20.2	13.0	983.1	173.2	16.2
LnGrp LOS	D	C	C	D	A	C	E	C	B	F	F	B
Approach Vol, veh/h		418			355			1656			2305	
Approach Delay, s/veh		32.2			33.1			23.8			279.8	
Approach LOS		C			C			C			F	

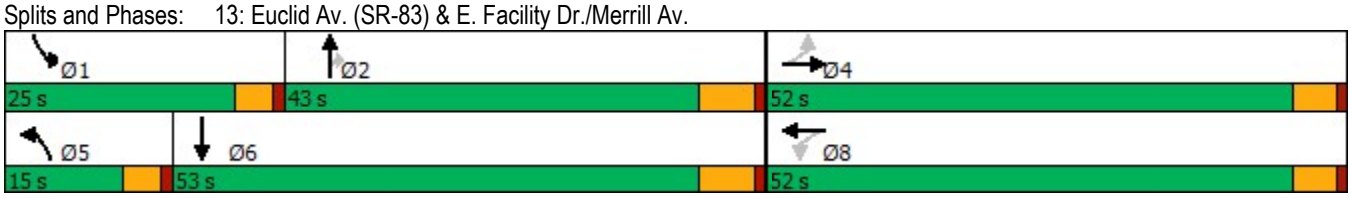
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.8	57.1		32.6	17.7	49.2		32.6				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	6.3	57.7		42.0	20.5	43.5		42.0				
Max Q Clear Time (g_c+I1), s	8.3	31.7		26.5	14.0	45.5		18.2				
Green Ext Time (p_c), s	0.0	10.1		1.4	0.2	0.0		1.5				

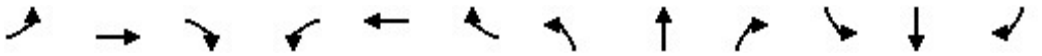
Intersection Summary			
HCM 6th Ctrl Delay		149.9	
HCM 6th LOS		F	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	8	5	405	60	41	1545	629	646	1472
Future Volume (vph)	8	5	405	60	41	1545	629	646	1472
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	52.0	52.0	52.0	52.0	15.0	43.0	43.0	25.0	53.0
Total Split (%)	43.3%	43.3%	43.3%	43.3%	12.5%	35.8%	35.8%	20.8%	44.2%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		47.0		47.0	10.1	37.0	37.0	20.5	50.3
Actuated g/C Ratio		0.39		0.39	0.08	0.31	0.31	0.17	0.42
v/c Ratio		0.03		1.43	0.33	1.56	1.17	2.50	1.15
Control Delay		19.3		231.0	58.6	287.4	122.4	707.3	108.8
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		19.3		231.0	58.6	287.4	122.4	707.3	108.8
LOS		B		F	E	F	F	F	F
Approach Delay		19.3		231.0		236.3			285.8
Approach LOS		B		F		F			F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.50	
Intersection Signal Delay: 255.7	Intersection LOS: F
Intersection Capacity Utilization 150.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	5	4	405	60	297	41	1545	629	646	1472	67
Future Volume (veh/h)	8	5	4	405	60	297	41	1545	629	646	1472	67
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	9	5	2	431	64	292	44	1644	654	687	1566	55
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	309	165	61	357	46	211	104	1054	470	277	1399	49
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.06	0.31	0.31	0.17	0.42	0.42
Sat Flow, veh/h	668	422	156	793	118	537	1619	3420	1525	1619	3371	118
Grp Volume(v), veh/h	16	0	0	787	0	0	44	1644	654	687	792	829
Grp Sat Flow(s),veh/h/ln	1247	0	0	1449	0	0	1619	1710	1525	1619	1710	1779
Q Serve(g_s), s	0.0	0.0	0.0	46.3	0.0	0.0	3.1	37.0	37.0	20.5	49.8	49.8
Cycle Q Clear(g_c), s	0.7	0.0	0.0	47.0	0.0	0.0	3.1	37.0	37.0	20.5	49.8	49.8
Prop In Lane	0.56		0.12	0.55		0.37	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	535	0	0	614	0	0	104	1055	470	277	710	738
V/C Ratio(X)	0.03	0.00	0.00	1.28	0.00	0.00	0.42	1.56	1.39	2.48	1.12	1.12
Avail Cap(c_a), veh/h	535	0	0	614	0	0	142	1055	470	277	710	738
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.4	0.0	0.0	38.2	0.0	0.0	54.0	41.5	41.5	49.7	35.1	35.1
Incr Delay (d2), s/veh	0.0	0.0	0.0	139.1	0.0	0.0	1.0	256.2	188.4	678.5	70.5	72.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.3	0.0	0.0	41.3	0.0	0.0	1.3	52.0	37.6	60.0	32.7	34.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	22.4	0.0	0.0	177.3	0.0	0.0	55.0	297.7	229.9	728.2	105.6	107.2
LnGrp LOS	C	A	A	F	A	A	E	F	F	F	F	F
Approach Vol, veh/h		16			787			2342			2308	
Approach Delay, s/veh		22.4			177.3			274.2			291.5	
Approach LOS		C			F			F			F	

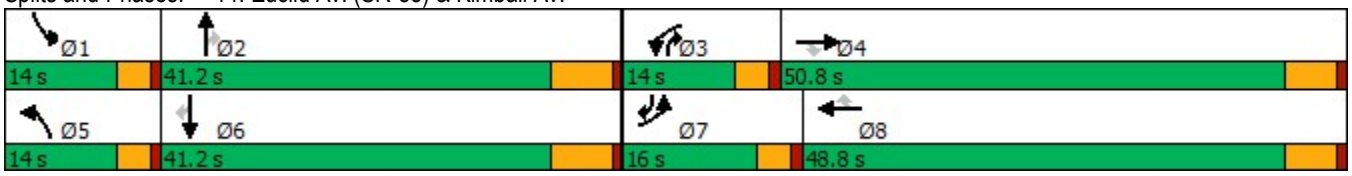
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	25.0	43.0		52.0	12.2	55.8		52.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	20.5	37.0		47.0	10.5	47.0		47.0				
Max Q Clear Time (g_c+I1), s	22.5	39.0		2.7	5.1	51.8		49.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0				

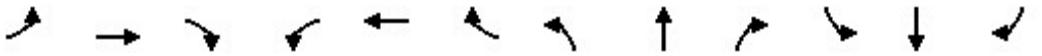
Intersection Summary												
HCM 6th Ctrl Delay			266.8									
HCM 6th LOS			F									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	360	349	67	124	1184	819	91	1230	74	231	1022	501
Future Volume (vph)	360	349	67	124	1184	819	91	1230	74	231	1022	501
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	47.8	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	16.0	50.8	50.8	14.0	48.8	48.8	14.0	41.2	14.0	14.0	41.2	16.0
Total Split (%)	13.3%	42.3%	42.3%	11.7%	40.7%	40.7%	11.7%	34.3%	11.7%	11.7%	34.3%	13.3%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	4.8	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	5.8	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	12.0	45.0	45.0	10.0	43.0	43.0	10.0	34.7	51.2	10.0	34.7	49.2
Actuated g/C Ratio	0.10	0.38	0.38	0.08	0.36	0.36	0.08	0.29	0.43	0.08	0.29	0.41
v/c Ratio	1.26	0.28	0.11	0.96	1.00	1.25	0.70	1.28	0.11	0.97	1.07	0.79
Control Delay	186.1	27.0	1.9	121.8	63.6	150.0	80.7	171.5	4.9	105.7	89.3	34.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	186.1	27.0	1.9	121.8	63.6	150.0	80.7	171.5	4.9	105.7	89.3	34.2
LOS	F	C	A	F	E	F	F	F	A	F	F	C
Approach Delay		98.6			100.3			156.8			75.7	
Approach LOS		F			F			F			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.28	
Intersection Signal Delay: 106.0	Intersection LOS: F
Intersection Capacity Utilization 115.2%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	360	349	67	124	1184	819	91	1230	74	231	1022	501
Future Volume (veh/h)	360	349	67	124	1184	819	91	1230	74	231	1022	501
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	371	360	59	128	1221	666	94	1268	62	238	1054	465
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	296	1283	572	135	1226	547	129	989	568	246	1001	593
Arrive On Green	0.10	0.38	0.38	0.08	0.36	0.36	0.08	0.29	0.29	0.08	0.29	0.29
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	371	360	59	128	1221	666	94	1268	62	238	1054	465
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	12.0	8.8	3.0	9.4	42.8	43.0	6.8	34.7	3.2	9.6	35.1	32.5
Cycle Q Clear(g_c), s	12.0	8.8	3.0	9.4	42.8	43.0	6.8	34.7	3.2	9.6	35.1	32.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	296	1283	572	135	1226	547	129	989	568	246	1001	593
V/C Ratio(X)	1.25	0.28	0.10	0.95	1.00	1.22	0.73	1.28	0.11	0.97	1.05	0.78
Avail Cap(c_a), veh/h	296	1283	572	135	1226	547	135	989	568	246	1001	593
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.0	26.2	24.4	54.7	38.4	38.5	53.9	42.6	24.6	54.8	42.4	32.0
Incr Delay (d2), s/veh	139.4	0.1	0.1	61.2	24.8	114.1	14.8	134.8	0.1	47.5	43.3	7.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.1	3.5	1.1	6.0	21.1	32.5	3.2	32.2	1.1	5.1	19.9	12.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	193.4	26.3	24.5	115.9	63.2	152.6	68.7	177.4	24.7	102.3	85.7	39.2
LnGrp LOS	F	C	C	F	E	F	E	F	C	F	F	D
Approach Vol, veh/h		790			2015			1424			1757	
Approach Delay, s/veh		104.6			96.1			163.6			75.7	
Approach LOS		F			F			F			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	41.2	14.0	50.8	13.6	41.6	16.0	48.8
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	10.0	34.7	10.0	45.0	10.0	34.7	12.0	43.0
Max Q Clear Time (g_c+I1), s	11.6	36.7	11.4	10.8	8.8	37.1	14.0	45.0
Green Ext Time (p_c), s	0.0	0.0	0.0	2.4	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	107.3
HCM 6th LOS	F

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	214	7	0	48	0	2
Future Vol, veh/h	214	7	0	48	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	233	8	0	52	0	2

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	237
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	807
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	807
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.5
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	807	-	-	-
HCM Lane V/C Ratio	0.003	-	-	-
HCM Control Delay (s)	9.5	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	0.4

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	203	13	3	41	6	3
Future Vol, veh/h	203	13	3	41	6	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	221	14	3	45	7	3

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	235	0	279	228
Stage 1	-	-	-	-	228	-
Stage 2	-	-	-	-	51	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1344	-	715	816
Stage 1	-	-	-	-	815	-
Stage 2	-	-	-	-	977	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1344	-	714	816
Mov Cap-2 Maneuver	-	-	-	-	718	-
Stage 1	-	-	-	-	815	-
Stage 2	-	-	-	-	975	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0.5	9.9
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	748	-	-	1344	-
HCM Lane V/C Ratio	0.013	-	-	0.002	-
HCM Control Delay (s)	9.9	-	-	7.7	-
HCM Lane LOS	A	-	-	A	-
HCM 95th %tile Q(veh)	0	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	199	7	0	45	0	2
Future Vol, veh/h	199	7	0	45	0	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	216	8	0	49	0	2

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	220
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	825
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	825
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	9.4
HCM LOS			A

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	825	-	-	-
HCM Lane V/C Ratio	0.003	-	-	-
HCM Control Delay (s)	9.4	-	-	-
HCM Lane LOS	A	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	1.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑	↱			↗
Traffic Vol, veh/h	0	902	908	116	0	102
Future Vol, veh/h	0	902	908	116	0	102
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	980	987	126	0	111

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	1050
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	278
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	278
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	26.3
HCM LOS			D

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	278
HCM Lane V/C Ratio	-	-	-	0.399
HCM Control Delay (s)	-	-	-	26.3
HCM Lane LOS	-	-	-	D
HCM 95th %tile Q(veh)	-	-	-	1.8

Intersection	
Int Delay, s/veh	71.3

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	212	691	926	87	190	98
Future Vol, veh/h	212	691	926	87	190	98
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	230	751	1007	95	207	107

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1102	0	-	0	2266	1055
Stage 1	-	-	-	-	1055	-
Stage 2	-	-	-	-	1211	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	641	-	-	-	~ 45	277
Stage 1	-	-	-	-	338	-
Stage 2	-	-	-	-	285	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	641	-	-	-	~ 29	277
Mov Cap-2 Maneuver	-	-	-	-	~ 125	-
Stage 1	-	-	-	-	217	-
Stage 2	-	-	-	-	285	-

Approach	EB	WB	SB
HCM Control Delay, s	3.2	0	$ 535.3
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	641	-	-	-	154
HCM Lane V/C Ratio	0.359	-	-	-	2.033
HCM Control Delay (s)	13.7	-	-	-	$ 535.3
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	1.6	-	-	-	24.6

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	0.2

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑	↱			↗
Traffic Vol, veh/h	0	880	990	3	0	23
Future Vol, veh/h	0	880	990	3	0	23
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	957	1076	3	0	25

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	1078
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	268
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	268
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

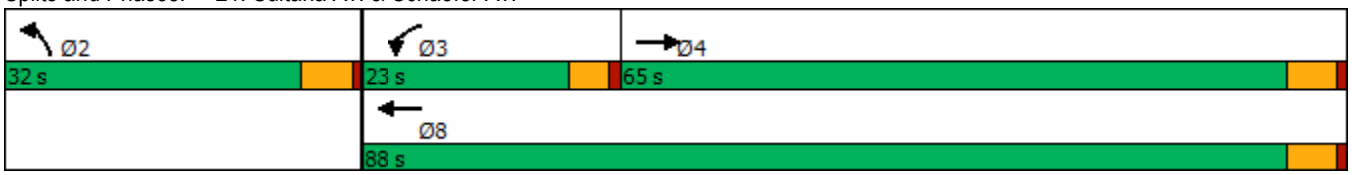
Approach	EB	WB	SB
HCM Control Delay, s	0	0	19.8
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	268
HCM Lane V/C Ratio	-	-	-	0.093
HCM Control Delay (s)	-	-	-	19.8
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	0.3

Lane Group	EBT	WBL	WBT	NBL
Lane Configurations				
Traffic Volume (vph)	185	17	41	3
Future Volume (vph)	185	17	41	3
Turn Type	NA	Prot	NA	Prot
Protected Phases	4	3	8	2
Permitted Phases				
Detector Phase	4	3	8	2
Switch Phase				
Minimum Initial (s)	10.0	5.0	10.0	10.0
Minimum Split (s)	22.5	9.6	15.5	27.5
Total Split (s)	65.0	23.0	88.0	32.0
Total Split (%)	54.2%	19.2%	73.3%	26.7%
Yellow Time (s)	4.5	3.6	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.5	4.6	5.5	5.5
Lead/Lag	Lag	Lead		
Lead-Lag Optimize?	Yes	Yes		
Recall Mode	None	None	None	Min
Act Effct Green (s)	11.7	5.5	13.1	13.2
Actuated g/C Ratio	0.31	0.14	0.34	0.35
v/c Ratio	0.37	0.07	0.07	0.01
Control Delay	13.5	19.0	8.5	9.8
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	13.5	19.0	8.5	9.8
LOS	B	B	A	A
Approach Delay	13.5		11.5	9.8
Approach LOS	B		B	A

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 38	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.37	
Intersection Signal Delay: 13.0	Intersection LOS: B
Intersection Capacity Utilization 31.6%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 21: Sultana Av. & Schaefer Av.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	185	15	17	41	3	1
Future Volume (veh/h)	185	15	17	41	3	1
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	201	16	18	45	3	1
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	451	36	41	781	300	100
Arrive On Green	0.26	0.26	0.02	0.41	0.28	0.28
Sat Flow, veh/h	1737	138	1810	1900	1069	356
Grp Volume(v), veh/h	0	217	18	45	5	0
Grp Sat Flow(s),veh/h/ln	0	1875	1810	1900	1782	0
Q Serve(g_s), s	0.0	3.5	0.4	0.5	0.1	0.0
Cycle Q Clear(g_c), s	0.0	3.5	0.4	0.5	0.1	0.0
Prop In Lane		0.07	1.00		0.60	0.20
Lane Grp Cap(c), veh/h	0	486	41	781	500	0
V/C Ratio(X)	0.00	0.45	0.43	0.06	0.01	0.00
Avail Cap(c_a), veh/h	0	3128	933	4394	1324	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	11.1	17.2	6.3	9.3	0.0
Incr Delay (d2), s/veh	0.0	0.6	2.7	0.0	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	1.0	0.1	0.1	0.0	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	0.0	11.7	19.8	6.4	9.3	0.0
LnGrp LOS	A	B	B	A	A	A
Approach Vol, veh/h	217			63	5	
Approach Delay, s/veh	11.7			10.2	9.3	
Approach LOS	B			B	A	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		15.5	5.4	14.8		20.2
Change Period (Y+Rc), s		5.5	4.6	5.5		5.5
Max Green Setting (Gmax), s		26.5	18.4	59.5		82.5
Max Q Clear Time (g_c+I1), s		2.1	2.4	5.5		2.5
Green Ext Time (p_c), s		0.0	0.0	1.2		0.2

Intersection Summary	
HCM 6th Ctrl Delay	11.3
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	3.3

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	2	10	13	3	14	18
Future Vol, veh/h	2	10	13	3	14	18
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	11	14	3	15	20

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	56	25	35	0	-	0
Stage 1	25	-	-	-	-	-
Stage 2	31	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	957	1057	1589	-	-	-
Stage 1	1003	-	-	-	-	-
Stage 2	997	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	948	1057	1589	-	-	-
Mov Cap-2 Maneuver	887	-	-	-	-	-
Stage 1	994	-	-	-	-	-
Stage 2	997	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	5.9	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1589	-	1024	-	-
HCM Lane V/C Ratio	0.009	-	0.013	-	-
HCM Control Delay (s)	7.3	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	2	2	5	14	19	5
Future Vol, veh/h	2	2	5	14	19	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	2	5	15	21	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	49	24	26	0	-	0
Stage 1	24	-	-	-	-	-
Stage 2	25	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	965	1058	1601	-	-	-
Stage 1	1004	-	-	-	-	-
Stage 2	1003	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	962	1058	1601	-	-	-
Mov Cap-2 Maneuver	896	-	-	-	-	-
Stage 1	1001	-	-	-	-	-
Stage 2	1003	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.7	1.9	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1601	-	970	-	-
HCM Lane V/C Ratio	0.003	-	0.004	-	-
HCM Control Delay (s)	7.3	-	8.7	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	1	3	5	18	16	5
Future Vol, veh/h	1	3	5	18	16	5
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	1	3	5	20	17	5

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	50	20	22	0	-	0
Stage 1	20	-	-	-	-	-
Stage 2	30	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	964	1064	1607	-	-	-
Stage 1	1008	-	-	-	-	-
Stage 2	998	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	961	1064	1607	-	-	-
Mov Cap-2 Maneuver	896	-	-	-	-	-
Stage 1	1005	-	-	-	-	-
Stage 2	998	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	1.6	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1607	-	1016	-	-
HCM Lane V/C Ratio	0.003	-	0.004	-	-
HCM Control Delay (s)	7.2	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	3	12	23	19	0
Future Vol, veh/h	0	3	12	23	19	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	3	13	25	21	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	72	21	21	0	-	0
Stage 1	21	-	-	-	-	-
Stage 2	51	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	937	1062	1608	-	-	-
Stage 1	1007	-	-	-	-	-
Stage 2	977	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	930	1062	1608	-	-	-
Mov Cap-2 Maneuver	874	-	-	-	-	-
Stage 1	999	-	-	-	-	-
Stage 2	977	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.4	2.5	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1608	-	1062	-	-
HCM Lane V/C Ratio	0.008	-	0.003	-	-
HCM Control Delay (s)	7.3	-	8.4	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	3.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	19	31	35	20	2
Future Vol, veh/h	0	19	31	35	20	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	21	34	38	22	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	129	23	24	0	-	0
Stage 1	23	-	-	-	-	-
Stage 2	106	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	870	1060	1604	-	-	-
Stage 1	1005	-	-	-	-	-
Stage 2	923	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	852	1060	1604	-	-	-
Mov Cap-2 Maneuver	820	-	-	-	-	-
Stage 1	984	-	-	-	-	-
Stage 2	923	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.5	3.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1604	-	1060	-	-
HCM Lane V/C Ratio	0.021	-	0.019	-	-
HCM Control Delay (s)	7.3	-	8.5	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

Intersection	
Int Delay, s/veh	1.1

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	11	6	66	39	0
Future Vol, veh/h	0	11	6	66	39	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	12	7	72	42	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	128	42	42	0	-	0
Stage 1	42	-	-	-	-	-
Stage 2	86	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	871	1034	1580	-	-	-
Stage 1	986	-	-	-	-	-
Stage 2	942	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	868	1034	1580	-	-	-
Mov Cap-2 Maneuver	833	-	-	-	-	-
Stage 1	982	-	-	-	-	-
Stage 2	942	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.5	0.6	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1580	-	1034	-	-
HCM Lane V/C Ratio	0.004	-	0.012	-	-
HCM Control Delay (s)	7.3	-	8.5	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	2

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	28	11	72	50	0
Future Vol, veh/h	0	28	11	72	50	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	30	12	78	54	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	156	54	54	0	-	0
Stage 1	54	-	-	-	-	-
Stage 2	102	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	840	1019	1564	-	-	-
Stage 1	974	-	-	-	-	-
Stage 2	927	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	833	1019	1564	-	-	-
Mov Cap-2 Maneuver	811	-	-	-	-	-
Stage 1	966	-	-	-	-	-
Stage 2	927	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	1	0
HCM LOS	A		

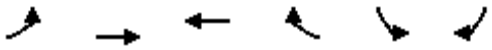
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1564	-	1019	-	-
HCM Lane V/C Ratio	0.008	-	0.03	-	-
HCM Control Delay (s)	7.3	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	2	878	982	68	11
Future Volume (vph)	2	878	982	68	11
Turn Type	Prot	NA	NA	Prot	Perm
Protected Phases	7	4	8	6	
Permitted Phases					6
Detector Phase	7	4	8	6	6
Switch Phase					
Minimum Initial (s)	5.0	10.0	10.0	10.0	10.0
Minimum Split (s)	9.6	15.8	22.8	27.8	27.8
Total Split (s)	9.6	90.6	81.0	29.4	29.4
Total Split (%)	8.0%	75.5%	67.5%	24.5%	24.5%
Yellow Time (s)	3.6	4.8	4.8	4.8	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	5.8	5.8
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	None	None	None	Min	Min
Act Effct Green (s)	5.2	64.4	62.9	12.3	12.3
Actuated g/C Ratio	0.06	0.73	0.71	0.14	0.14
v/c Ratio	0.02	0.69	0.86	0.30	0.05
Control Delay	49.0	10.1	19.4	41.2	19.5
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	49.0	10.1	19.4	41.2	19.5
LOS	D	B	B	D	B
Approach Delay		10.2	19.4	38.2	
Approach LOS		B	B	D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 88.6	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.86	
Intersection Signal Delay: 16.2	Intersection LOS: B
Intersection Capacity Utilization 74.5%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 29: Edison Av. & Sultana Av.





Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	2	878	982	80	68	11
Future Volume (veh/h)	2	878	982	80	68	11
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	2	954	1067	87	74	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	5	1402	1178	96	219	195
Arrive On Green	0.00	0.74	0.68	0.68	0.12	0.12
Sat Flow, veh/h	1810	1900	1733	141	1810	1610
Grp Volume(v), veh/h	2	954	0	1154	74	12
Grp Sat Flow(s),veh/h/ln	1810	1900	0	1875	1810	1610
Q Serve(g_s), s	0.1	21.8	0.0	42.3	3.1	0.5
Cycle Q Clear(g_c), s	0.1	21.8	0.0	42.3	3.1	0.5
Prop In Lane	1.00			0.08	1.00	1.00
Lane Grp Cap(c), veh/h	5	1402	0	1274	219	195
V/C Ratio(X)	0.41	0.68	0.00	0.91	0.34	0.06
Avail Cap(c_a), veh/h	110	1953	0	1709	518	461
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	41.1	5.7	0.0	11.0	33.2	32.1
Incr Delay (d2), s/veh	18.9	0.6	0.0	5.9	0.9	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	4.9	0.0	13.5	1.3	0.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	59.9	6.3	0.0	16.9	34.1	32.2
LnGrp LOS	E	A	A	B	C	C
Approach Vol, veh/h		956	1154		86	
Approach Delay, s/veh		6.4	16.9		33.8	
Approach LOS		A	B		C	

Timer - Assigned Phs			4		6	7	8
Phs Duration (G+Y+Rc), s			66.7		15.8	4.8	61.9
Change Period (Y+Rc), s			5.8		5.8	4.6	5.8
Max Green Setting (Gmax), s			84.8		23.6	5.0	75.2
Max Q Clear Time (g_c+I1), s			23.8		5.1	2.1	44.3
Green Ext Time (p_c), s			8.8		0.2	0.0	11.7

Intersection Summary		
HCM 6th Ctrl Delay		13.0
HCM 6th LOS		B

Intersection	
Intersection Delay, s/veh	21.7
Intersection LOS	C

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	22	152	23	28	401	19	36	157	30	21	146	60
Future Vol, veh/h	22	152	23	28	401	19	36	157	30	21	146	60
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	24	167	25	31	441	21	40	173	33	23	160	66
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	14	31.6	15.4	15.2
HCM LOS	B	D	C	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	16%	11%	6%	9%
Vol Thru, %	70%	77%	90%	64%
Vol Right, %	13%	12%	4%	26%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	223	197	448	227
LT Vol	36	22	28	21
Through Vol	157	152	401	146
RT Vol	30	23	19	60
Lane Flow Rate	245	216	492	249
Geometry Grp	1	1	1	1
Degree of Util (X)	0.457	0.397	0.826	0.459
Departure Headway (Hd)	6.714	6.603	6.043	6.617
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	534	541	596	541
Service Time	4.792	4.686	4.106	4.695
HCM Lane V/C Ratio	0.459	0.399	0.826	0.46
HCM Control Delay	15.4	14	31.6	15.2
HCM Lane LOS	C	B	D	C
HCM 95th-tile Q	2.4	1.9	8.5	2.4

Intersection	
Intersection Delay, s/veh	1614.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	64	1404	137	21	1768	36	163	207	38	12	147	64
Future Vol, veh/h	64	1404	137	21	1768	36	163	207	38	12	147	64
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	77	1692	165	25	2130	43	196	249	46	14	177	77
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	1722.4	2018.2	206.9	110.9
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	40%	4%	1%	5%
Vol Thru, %	51%	87%	97%	66%
Vol Right, %	9%	9%	2%	29%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	408	1605	1825	223
LT Vol	163	64	21	12
Through Vol	207	1404	1768	147
RT Vol	38	137	36	64
Lane Flow Rate	492	1934	2199	269
Geometry Grp	1	1	1	1
Degree of Util (X)	1.209	4.719	5.386	0.704
Departure Headway (Hd)	26.955	20.378	18.761	41.662
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	143	213	220	91
Service Time	24.955	18.378	16.761	39.662
HCM Lane V/C Ratio	3.441	9.08	9.995	2.956
HCM Control Delay	206.9	1722.4	2018.2	110.9
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	9.7	85.8	108.8	3.4

Intersection	
Intersection Delay, s/veh	258.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	52	128	41	51	313	64	54	634	23	58	531	69
Future Vol, veh/h	52	128	41	51	313	64	54	634	23	58	531	69
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	54	133	43	53	326	67	56	660	24	60	553	72
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	35.9	98.6	372.1	313.2
HCM LOS	E	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	8%	24%	12%	9%
Vol Thru, %	89%	58%	73%	81%
Vol Right, %	3%	19%	15%	10%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	711	221	428	658
LT Vol	54	52	51	58
Through Vol	634	128	313	531
RT Vol	23	41	64	69
Lane Flow Rate	741	230	446	685
Geometry Grp	1	1	1	1
Degree of Util (X)	1.748	0.609	1.044	1.61
Departure Headway (Hd)	10.178	13.677	11.507	10.433
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	363	267	321	356
Service Time	8.178	11.677	9.507	8.433
HCM Lane V/C Ratio	2.041	0.861	1.389	1.924
HCM Control Delay	372.1	35.9	98.6	313.2
HCM Lane LOS	F	E	F	F
HCM 95th-tile Q	39	3.6	12	32.7

Intersection	
Intersection Delay, s/veh	1827.6
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	240	1487	453	99	1677	103	174	385	22	62	518	100
Future Vol, veh/h	240	1487	453	99	1677	103	174	385	22	62	518	100
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	255	1582	482	105	1784	110	185	410	23	66	551	106
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	2386.9	2037.6	502.1	586.5
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	30%	11%	5%	9%
Vol Thru, %	66%	68%	89%	76%
Vol Right, %	4%	21%	5%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	581	2180	1879	680
LT Vol	174	240	99	62
Through Vol	385	1487	1677	518
RT Vol	22	453	103	100
Lane Flow Rate	618	2319	1999	723
Geometry Grp	1	1	1	1
Degree of Util (X)	1.654	6.117	5.317	1.914
Departure Headway (Hd)	74.408	37.373	41.789	64.747
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	56	139	120	65
Service Time	72.408	35.373	39.789	62.747
HCM Lane V/C Ratio	11.036	16.683	16.658	11.123
HCM Control Delay	502.1	2386.9	2037.6	586.5
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	7.8	65	49.9	10.2

Intersection	
Intersection Delay, s/veh	2128
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	59	1599	85	285	2312	157	54	173	105	204	274	47
Future Vol, veh/h	59	1599	85	285	2312	157	54	173	105	204	274	47
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	61	1666	89	297	2408	164	56	180	109	213	285	49
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	1739.6	2950.2	199.4	323.6
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	16%	3%	10%	39%
Vol Thru, %	52%	92%	84%	52%
Vol Right, %	32%	5%	6%	9%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	332	1743	2754	525
LT Vol	54	59	285	204
Through Vol	173	1599	2312	274
RT Vol	105	85	157	47
Lane Flow Rate	346	1816	2869	547
Geometry Grp	1	1	1	1
Degree of Util (X)	0.907	4.707	7.444	1.425
Departure Headway (Hd)	59.77	30.521	22.087	39.441
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	66	145	201	98
Service Time	57.77	28.521	20.087	37.441
HCM Lane V/C Ratio	5.242	12.524	14.274	5.582
HCM Control Delay	199.4	1739.6	2950.2	323.6
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	4.2	58.2	134.7	9.8

Intersection	
Int Delay, s/veh	5

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	35	1634	57	301	2310	41	77	164	121	64	92	17
Future Vol, veh/h	35	1634	57	301	2310	41	77	164	121	64	92	17
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	38	1776	62	327	2511	45	84	178	132	70	100	18

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2556	0	0	1838	0	0	5130	5093	1807	5226	5102	2534
Stage 1	-	-	-	-	-	-	1883	1883	-	3188	3188	-
Stage 2	-	-	-	-	-	-	3247	3210	-	2038	1914	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	176	-	-	336	-	-	0	~ 1	~ 99	0	~ 1	36
Stage 1	-	-	-	-	-	-	92	~ 121	-	~ 15	~ 25	-
Stage 2	-	-	-	-	-	-	~ 14	~ 24	-	75	117	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	176	-	-	336	-	-	-	~ 1	~ 99	-	~ 1	36
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	~ 1	-	-	~ 1	-
Stage 1	-	-	-	-	-	-	92	~ 121	-	~ 15	~ 25	-
Stage 2	-	-	-	-	-	-	-	~ 24	-	~ 12	117	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.6	8.9		
HCM LOS			-	-

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	176	-	-	336	-	-	-
HCM Lane V/C Ratio	-	0.216	-	-	0.974	-	-	-
HCM Control Delay (s)	-	31	0	-	78.6	0	-	-
HCM Lane LOS	-	D	A	-	F	A	-	-
HCM 95th %tile Q(veh)	-	0.8	-	-	10.5	-	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	9

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	37	1754	61	318	2286	42	82	182	139	64	92	14
Future Vol, veh/h	37	1754	61	318	2286	42	82	182	139	64	92	14
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	40	1907	66	346	2485	46	89	198	151	70	100	15

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2531	0	0	1973	0	0	5278	5243	1940	5395	5253	2508
Stage 1	-	-	-	-	-	-	2020	2020	-	3200	3200	-
Stage 2	-	-	-	-	-	-	3258	3223	-	2195	2053	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	180	-	-	~ 298	-	-	0	0	~ 83	0	0	37
Stage 1	-	-	-	-	-	-	~ 77	~ 103	-	~ 15	~ 25	-
Stage 2	-	-	-	-	-	-	~ 14	~ 24	-	~ 60	~ 99	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	180	-	-	~ 298	-	-	-	0	~ 83	-	0	37
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	0	-	-	0	-
Stage 1	-	-	-	-	-	-	~ 77	~ 103	-	~ 15	0	-
Stage 2	-	-	-	-	-	-	-	0	-	~ 45	~ 99	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.6	16.9		
HCM LOS			-	-

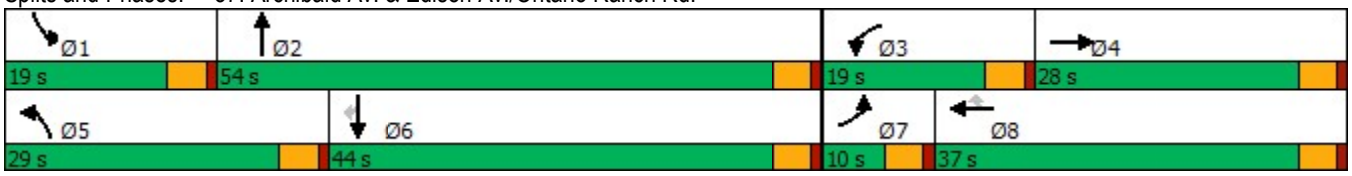
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	180	-	-	~ 298	-	-	-
HCM Lane V/C Ratio	-	0.223	-	-	1.16	-	-	-
HCM Control Delay (s)	-	30.7	0	-	140.2	0	-	-
HCM Lane LOS	-	D	A	-	F	A	-	-
HCM 95th %tile Q(veh)	-	0.8	-	-	14.7	-	-	-

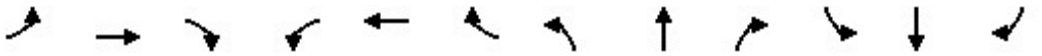
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	116	785	212	603	1323	132	518	1386	933	169	957	303
Future Volume (vph)	116	785	212	603	1323	132	518	1386	933	169	957	303
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	44.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	36.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	5.5	23.5	120.0	14.5	32.5	32.5	24.5	49.5	120.0	14.5	39.5	39.5
Actuated g/C Ratio	0.05	0.20	1.00	0.12	0.27	0.27	0.20	0.41	1.00	0.12	0.33	0.33
v/c Ratio	0.91	1.22	0.15	1.81	2.99	0.29	1.73	1.03	0.68	0.95	0.89	0.55
Control Delay	113.4	154.4	0.2	404.6	917.3	8.2	371.3	65.3	2.5	106.4	48.6	18.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	113.4	154.4	0.2	404.6	917.3	8.2	371.3	65.3	2.5	106.4	48.6	18.5
LOS	F	F	A	F	F	A	F	E	A	F	D	B
Approach Delay		120.8			708.8			100.5			49.1	
Approach LOS		F			F			F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.99	
Intersection Signal Delay: 262.0	Intersection LOS: F
Intersection Capacity Utilization 152.7%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	116	785	212	603	1323	132	518	1386	933	169	957	303
Future Volume (veh/h)	116	785	212	603	1323	132	518	1386	933	169	957	303
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	127	863	0	663	1454	122	569	1523	0	186	1052	322
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	140	705		368	488	408	331	1485		196	1185	491
Arrive On Green	0.05	0.20	0.00	0.12	0.27	0.27	0.20	0.41	0.00	0.12	0.33	0.33
Sat Flow, veh/h	3048	3600	1525	3048	1800	1506	1619	3600	1525	1619	3600	1491
Grp Volume(v), veh/h	127	863	0	663	1454	122	569	1523	0	186	1052	322
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1506	1619	1800	1525	1619	1800	1491
Q Serve(g_s), s	5.0	23.5	0.0	14.5	32.5	7.7	24.5	49.5	0.0	13.7	33.2	22.2
Cycle Q Clear(g_c), s	5.0	23.5	0.0	14.5	32.5	7.7	24.5	49.5	0.0	13.7	33.2	22.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	140	705		368	488	408	331	1485		196	1185	491
V/C Ratio(X)	0.91	1.22		1.80	2.98	0.30	1.72	1.03		0.95	0.89	0.66
Avail Cap(c_a), veh/h	140	705		368	488	408	331	1485		196	1185	491
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.0	48.3	0.0	52.8	43.8	34.7	47.7	35.2	0.0	52.4	38.1	34.4
Incr Delay (d2), s/veh	49.8	113.3	0.0	370.9	897.7	0.4	337.1	30.1	0.0	50.2	8.5	3.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.8	21.2	0.0	24.3	135.3	2.8	40.3	25.9	0.0	8.0	15.0	8.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	106.9	161.5	0.0	423.6	941.4	35.1	384.9	65.4	0.0	102.6	46.6	37.6
LnGrp LOS	F	F		F	F	D	F	F		F	D	D
Approach Vol, veh/h		990	A		2239			2092	A		1560	
Approach Delay, s/veh		154.5			738.7			152.3			51.4	
Approach LOS		F			F			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.0	54.0	19.0	28.0	29.0	44.0	10.0	37.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	15.7	51.5	16.5	25.5	26.5	35.2	7.0	34.5
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	2.7	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	320.5
HCM 6th LOS	F

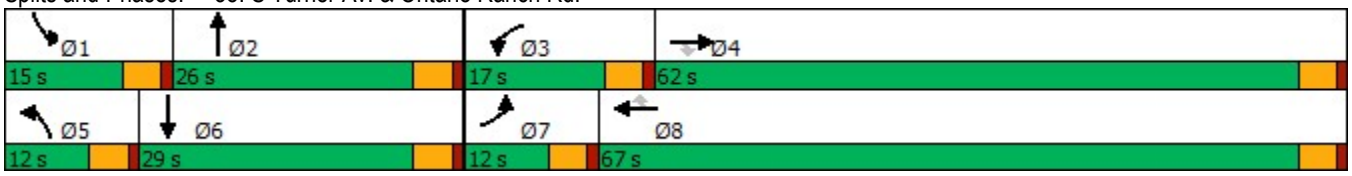
Notes

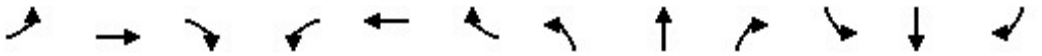
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	148	1670	18	63	2033	50	44	157	215	86
Future Volume (vph)	148	1670	18	63	2033	50	44	157	215	86
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	26.0	15.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	21.7%	12.5%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.5	62.7	62.7	9.6	62.6	62.6	7.0	17.7	10.5	23.3
Actuated g/C Ratio	0.06	0.54	0.54	0.08	0.54	0.54	0.06	0.15	0.09	0.20
v/c Ratio	1.41	0.95	0.02	0.47	1.16	0.06	0.45	0.76	1.48	0.65
Control Delay	270.1	39.6	0.1	61.7	106.6	0.8	67.3	62.6	280.1	41.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	270.1	39.6	0.1	61.7	106.6	0.8	67.3	62.6	280.1	41.3
LOS	F	D	A	E	F	A	E	E	F	D
Approach Delay		57.7			102.8			63.5		156.4
Approach LOS		E			F			E		F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.3	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.48	
Intersection Signal Delay: 88.1	Intersection LOS: F
Intersection Capacity Utilization 102.1%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	148	1670	18	63	2033	50	44	157	41	215	86	145
Future Volume (veh/h)	148	1670	18	63	2033	50	44	157	41	215	86	145
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	164	1856	20	70	2259	56	49	174	46	239	96	161
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	119	2027	904	91	1971	879	63	202	53	166	125	210
Arrive On Green	0.07	0.56	0.56	0.05	0.55	0.55	0.04	0.14	0.14	0.09	0.20	0.20
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	1448	383	1810	638	1070
Grp Volume(v), veh/h	164	1856	20	70	2259	56	49	0	220	239	0	257
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1831	1810	0	1707
Q Serve(g_s), s	7.5	53.1	0.6	4.4	62.5	1.9	3.1	0.0	13.5	10.5	0.0	16.3
Cycle Q Clear(g_c), s	7.5	53.1	0.6	4.4	62.5	1.9	3.1	0.0	13.5	10.5	0.0	16.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.21	1.00		0.63
Lane Grp Cap(c), veh/h	119	2027	904	91	1971	879	63	0	255	166	0	335
V/C Ratio(X)	1.38	0.92	0.02	0.77	1.15	0.06	0.77	0.00	0.86	1.44	0.00	0.77
Avail Cap(c_a), veh/h	119	2027	904	198	1971	879	119	0	344	166	0	365
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	53.5	22.7	11.1	53.7	26.0	12.2	54.8	0.0	48.2	52.0	0.0	43.5
Incr Delay (d2), s/veh	216.2	7.1	0.0	12.9	72.2	0.0	17.7	0.0	15.3	228.6	0.0	8.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.4	21.8	0.2	2.3	43.4	0.6	1.7	0.0	7.0	15.2	0.0	7.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	269.6	29.7	11.2	66.6	98.2	12.2	72.4	0.0	63.5	280.6	0.0	52.3
LnGrp LOS	F	C	B	E	F	B	E	A	E	F	A	D
Approach Vol, veh/h		2040			2385			269			496	
Approach Delay, s/veh		48.8			95.3			65.1			162.3	
Approach LOS		D			F			E			F	

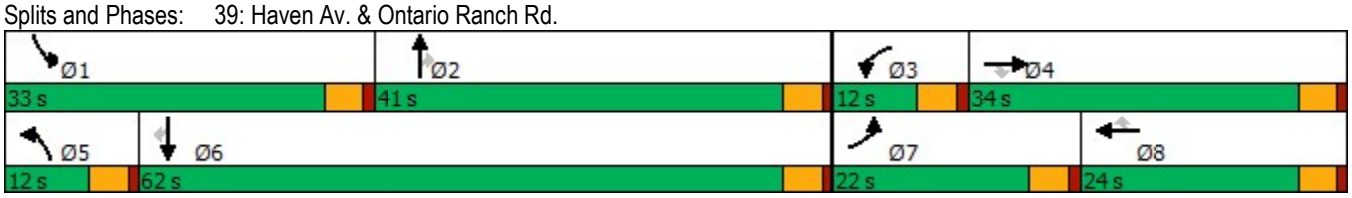
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	20.5	10.2	68.8	8.5	26.9	12.0	67.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	10.5	21.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	12.5	15.5	6.4	55.1	5.1	18.3	9.5	64.5
Green Ext Time (p_c), s	0.0	0.5	0.1	2.1	0.0	0.7	0.0	0.0

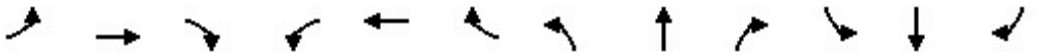
Intersection Summary	
HCM 6th Ctrl Delay	81.9
HCM 6th LOS	F

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	260	1704	51	107	1498	183	101	350	175	446	437	226
Future Volume (vph)	260	1704	51	107	1498	183	101	350	175	446	437	226
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	22.0	34.0	34.0	12.0	24.0	24.0	12.0	41.0	41.0	33.0	62.0	62.0
Total Split (%)	18.3%	28.3%	28.3%	10.0%	20.0%	20.0%	10.0%	34.2%	34.2%	27.5%	51.7%	51.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	17.6	29.7	29.7	7.4	19.6	19.6	7.5	28.1	28.1	28.6	49.2	49.2
Actuated g/C Ratio	0.16	0.27	0.27	0.07	0.18	0.18	0.07	0.25	0.25	0.26	0.44	0.44
v/c Ratio	1.11	1.40	0.11	0.59	1.49	0.46	1.01	0.83	0.37	1.17	0.59	0.31
Control Delay	133.2	219.3	0.5	65.3	258.7	9.9	143.0	55.8	7.7	135.8	27.1	3.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	133.2	219.3	0.5	65.3	258.7	9.9	143.0	55.8	7.7	135.8	27.1	3.3
LOS	F	F	A	E	F	A	F	E	A	F	C	A
Approach Delay		202.6			221.6			56.5			66.0	
Approach LOS		F			F			E			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 111.9	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.49	
Intersection Signal Delay: 164.9	Intersection LOS: F
Intersection Capacity Utilization 101.1%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	260	1704	51	107	1498	183	101	350	175	446	437	226
Future Volume (veh/h)	260	1704	51	107	1498	183	101	350	175	446	437	226
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	280	1832	44	115	1611	145	109	376	137	480	470	220
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	259	1389	431	163	1102	272	111	428	362	421	773	653
Arrive On Green	0.16	0.28	0.28	0.06	0.18	0.18	0.07	0.24	0.24	0.26	0.43	0.43
Sat Flow, veh/h	1619	4914	1524	2956	6192	1525	1619	1800	1523	1619	1800	1520
Grp Volume(v), veh/h	280	1832	44	115	1611	145	109	376	137	480	470	220
Grp Sat Flow(s),veh/h/ln	1619	1638	1524	1478	1548	1525	1619	1800	1523	1619	1800	1520
Q Serve(g_s), s	17.5	31.0	2.3	4.2	19.5	9.5	7.4	22.0	8.3	28.5	22.1	10.6
Cycle Q Clear(g_c), s	17.5	31.0	2.3	4.2	19.5	9.5	7.4	22.0	8.3	28.5	22.1	10.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	259	1389	431	163	1102	272	111	428	362	421	773	653
V/C Ratio(X)	1.08	1.32	0.10	0.71	1.46	0.53	0.98	0.88	0.38	1.14	0.61	0.34
Avail Cap(c_a), veh/h	259	1389	431	202	1102	272	111	600	508	421	945	798
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.0	39.3	29.0	50.9	45.0	40.9	51.0	40.2	35.0	40.5	24.1	20.8
Incr Delay (d2), s/veh	79.7	148.7	0.1	8.1	212.8	2.0	80.0	10.6	0.7	87.8	0.8	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.4	30.8	0.8	1.7	23.3	3.5	5.4	10.6	3.0	21.1	8.9	3.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	125.7	188.0	29.1	59.0	257.8	42.9	131.0	50.8	35.6	128.3	24.9	21.1
LnGrp LOS	F	F	C	E	F	D	F	D	D	F	C	C
Approach Vol, veh/h		2156			1871			622			1170	
Approach Delay, s/veh		176.7			228.9			61.5			66.6	
Approach LOS		F			F			E			E	

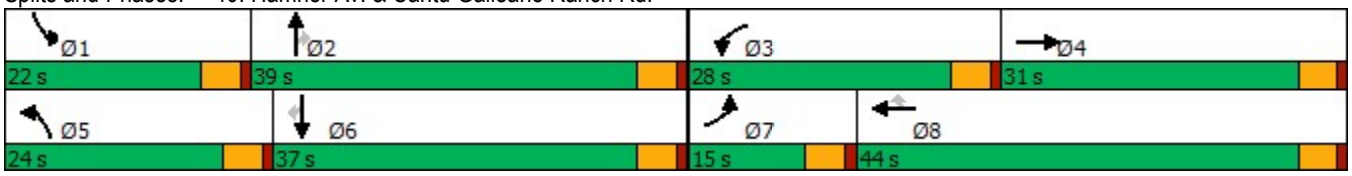
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	33.0	30.6	10.5	35.5	12.0	51.6	22.0	24.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	36.5	7.5	29.5	7.5	57.5	17.5	19.5
Max Q Clear Time (g_c+I1), s	30.5	24.0	6.2	33.0	9.4	24.1	19.5	21.5
Green Ext Time (p_c), s	0.0	2.0	0.0	0.0	0.0	3.6	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	159.0
HCM 6th LOS	F

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	852	1703	291	1599	379	324	794	376	377	225	530
Future Volume (vph)	852	1703	291	1599	379	324	794	376	377	225	530
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	28.0	44.0	44.0	24.0	39.0	39.0	22.0	37.0	37.0
Total Split (%)	12.5%	25.8%	23.3%	36.7%	36.7%	20.0%	32.5%	32.5%	18.3%	30.8%	30.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	10.5	34.9	15.2	39.6	39.6	16.0	30.6	30.6	16.3	30.9	30.9
Actuated g/C Ratio	0.09	0.30	0.13	0.34	0.34	0.14	0.27	0.27	0.14	0.27	0.27
v/c Ratio	2.77	0.96	0.65	1.34	0.56	0.69	0.60	0.60	0.79	0.24	0.95
Control Delay	828.0	53.5	54.7	191.6	16.9	55.4	38.9	12.8	60.6	34.0	54.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	828.0	53.5	54.7	191.6	16.9	55.4	38.9	12.8	60.6	34.0	54.2
LOS	F	D	D	F	B	E	D	B	E	C	D
Approach Delay		300.6		144.8			35.9			52.3	
Approach LOS		F		F			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 115.1	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.77	
Intersection Signal Delay: 164.5	Intersection LOS: F
Intersection Capacity Utilization 109.6%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	852	1703	117	291	1599	379	324	794	376	377	225	530
Future Volume (veh/h)	852	1703	117	291	1599	379	324	794	376	377	225	530
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	888	1774	66	303	1666	329	338	827	309	393	234	511
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	324	2155	80	381	1252	559	412	1410	438	459	1031	460
Arrive On Green	0.09	0.33	0.33	0.11	0.35	0.35	0.12	0.27	0.27	0.13	0.29	0.29
Sat Flow, veh/h	3510	6516	242	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	888	1335	505	303	1666	329	338	827	309	393	234	511
Grp Sat Flow(s),veh/h/ln	1755	1634	1856	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	10.5	28.5	28.5	9.6	39.5	19.1	10.7	15.7	19.7	12.5	5.6	32.5
Cycle Q Clear(g_c), s	10.5	28.5	28.5	9.6	39.5	19.1	10.7	15.7	19.7	12.5	5.6	32.5
Prop In Lane	1.00		0.13	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	324	1621	614	381	1252	559	412	1410	438	459	1031	460
V/C Ratio(X)	2.74	0.82	0.82	0.80	1.33	0.59	0.82	0.59	0.71	0.86	0.23	1.11
Avail Cap(c_a), veh/h	324	1621	614	725	1252	559	601	1572	488	540	1031	460
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.7	35.0	35.0	49.5	37.2	30.5	49.1	35.9	37.4	48.4	31.1	40.7
Incr Delay (d2), s/veh	792.9	3.6	8.9	3.8	154.2	1.6	5.9	0.5	4.1	11.3	0.1	76.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	40.1	11.0	13.4	4.2	42.8	7.1	4.8	6.4	7.8	6.0	2.4	21.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	844.6	38.6	43.9	53.3	191.3	32.1	54.9	36.4	41.4	59.7	31.2	116.7
LnGrp LOS	F	D	D	D	F	C	D	D	D	E	C	F
Approach Vol, veh/h		2728			2298			1474			1138	
Approach Delay, s/veh		302.0			150.3			41.7			79.5	
Approach LOS		F			F			D			E	

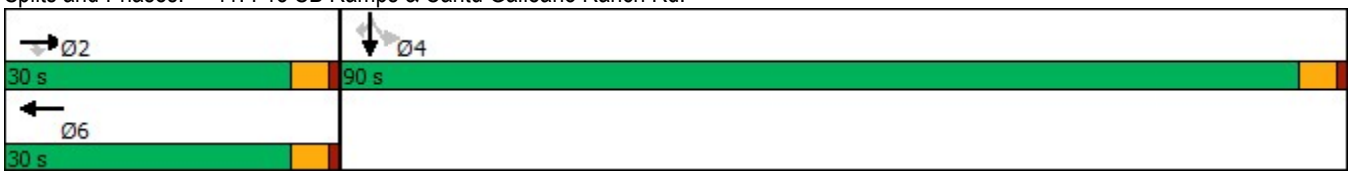
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	19.4	35.4	16.8	42.2	17.9	37.0	15.0	44.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	34.5	23.5	26.5	19.5	32.5	10.5	39.5
Max Q Clear Time (g_c+I1), s	14.5	21.7	11.6	30.5	12.7	34.5	12.5	41.5
Green Ext Time (p_c), s	0.4	5.0	0.8	0.0	0.6	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	173.0
HCM 6th LOS	F

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	1600	403	916	430	322	0	1870
Future Volume (vph)	1600	403	916	430	322	0	1870
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	30.0	30.0	30.0		90.0	90.0	90.0
Total Split (%)	25.0%	25.0%	25.0%		75.0%	75.0%	75.0%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	25.5	25.5	25.5	120.0	85.5	85.5	85.5
Actuated g/C Ratio	0.21	0.21	0.21	1.00	0.71	0.71	0.71
v/c Ratio	1.60	0.78	1.31	0.17	0.26	0.99	0.96
Control Delay	304.8	25.8	188.3	0.1	6.7	42.9	35.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	304.8	25.8	188.3	0.1	6.7	42.9	35.0
LOS	F	C	F	A	A	D	D
Approach Delay	248.6		128.2			34.7	
Approach LOS	F		F			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.60	
Intersection Signal Delay: 134.7	Intersection LOS: F
Intersection Capacity Utilization 110.0%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	1600	403	0	916	430	0	0	0	322	0	1870
Future Volume (veh/h)	0	1600	403	0	916	430	0	0	0	322	0	1870
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	1758	0	0	1007	0				236	0	1852
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91				0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	1525		0	1061					1090	0	1939
Arrive On Green	0.00	0.29	0.00	0.00	0.29	0.00				0.90	0.00	0.90
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	1758	0	0	1007	0				236	0	1852
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	25.5	0.0	0.0	23.7	0.0				1.4	0.0	35.1
Cycle Q Clear(g_c), s	0.0	25.5	0.0	0.0	23.7	0.0				1.4	0.0	35.1
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	1525		0	1061					1090	0	1939
V/C Ratio(X)	0.00	1.15		0.00	0.95					0.22	0.00	0.95
Avail Cap(c_a), veh/h	0	1525		0	1061					1784	0	3175
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.50	1.50	1.50
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	30.6	0.0	0.0	30.0	0.0				1.7	0.0	3.4
Incr Delay (d2), s/veh	0.0	76.7	0.0	0.0	16.7	0.0				0.1	0.0	5.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	20.2	0.0	0.0	11.5	0.0				0.4	0.0	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	107.3	0.0	0.0	46.7	0.0				1.8	0.0	8.8
LnGrp LOS	A	F		A	D					A	A	A
Approach Vol, veh/h		1758	A		1007	A					2088	
Approach Delay, s/veh		107.3			46.7						8.0	
Approach LOS		F			D						A	

Timer - Assigned Phs		2		4		6						
Phs Duration (G+Y+Rc), s		30.0		56.7		30.0						
Change Period (Y+Rc), s		4.5		4.5		4.5						
Max Green Setting (Gmax), s		25.5		85.5		25.5						
Max Q Clear Time (g_c+I1), s		27.5		37.1		25.7						
Green Ext Time (p_c), s		0.0		15.1		0.0						

Intersection Summary		
HCM 6th Ctrl Delay		52.0
HCM 6th LOS		D

Notes

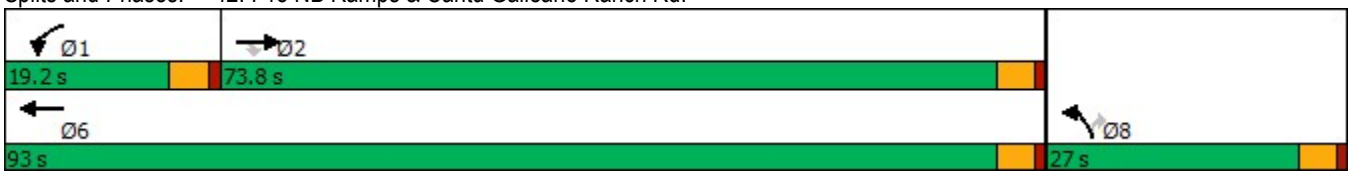
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	583	1198	281	540	689	544
Future Volume (vph)	583	1198	281	540	689	544
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	73.8	73.8	19.2	93.0	27.0	27.0
Total Split (%)	61.5%	61.5%	16.0%	77.5%	22.5%	22.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	69.3	69.3	13.6	87.4	22.5	22.5
Actuated g/C Ratio	0.58	0.58	0.11	0.74	0.19	0.19
v/c Ratio	0.18	1.00	0.70	0.13	1.25	0.63
Control Delay	11.8	37.6	60.3	4.7	165.1	9.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	11.8	37.6	60.3	4.7	165.1	9.2
LOS	B	D	E	A	F	A
Approach Delay	29.2			23.7	116.2	
Approach LOS	C			C	F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.9	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.25	
Intersection Signal Delay: 56.0	Intersection LOS: E
Intersection Capacity Utilization 89.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	583	1198	281	540	689	544
Future Volume (veh/h)	583	1198	281	540	689	544
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	595	635	287	551	703	300
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	2661	752	399	3636	871	388
Arrive On Green	0.47	0.47	0.11	0.64	0.24	0.24
Sat Flow, veh/h	5700	1610	3619	5700	3619	1610
Grp Volume(v), veh/h	595	635	287	551	703	300
Grp Sat Flow(s),veh/h/ln	1900	1610	1810	1900	1810	1610
Q Serve(g_s), s	4.6	25.8	5.7	2.9	13.6	12.9
Cycle Q Clear(g_c), s	4.6	25.8	5.7	2.9	13.6	12.9
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	2661	752	399	3636	871	388
V/C Ratio(X)	0.22	0.84	0.72	0.15	0.81	0.77
Avail Cap(c_a), veh/h	5325	1504	717	6800	1098	488
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	11.8	17.4	31.9	5.4	26.5	26.3
Incr Delay (d2), s/veh	0.0	2.7	2.4	0.0	3.6	5.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	7.9	2.4	0.7	5.7	5.1
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	11.8	20.1	34.3	5.4	30.1	32.2
LnGrp LOS	B	C	C	A	C	C
Approach Vol, veh/h	1230			838	1003	
Approach Delay, s/veh	16.1			15.3	30.8	
Approach LOS	B			B	C	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	12.7	39.1				51.8	22.4
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	14.7	69.3				88.5	22.5
Max Q Clear Time (g_c+I1), s	7.7	27.8				4.9	15.6
Green Ext Time (p_c), s	0.5	6.9				3.5	2.3

Intersection Summary	
HCM 6th Ctrl Delay	20.7
HCM 6th LOS	C

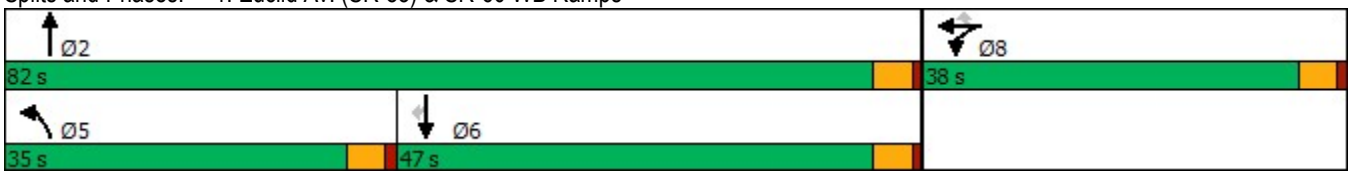
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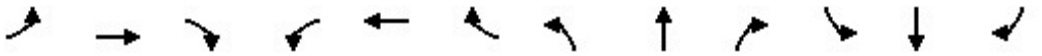
User approved volume balancing among the lanes for turning movement.

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	874	7	421	1042	1396	1717	532
Future Volume (vph)	874	7	421	1042	1396	1717	532
Turn Type	Split	NA	Perm	Prot	NA	NA	Perm
Protected Phases	8	8		5	2	6	
Permitted Phases			8				6
Detector Phase	8	8	8	5	2	6	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	38.0	38.0	38.0	35.0	82.0	47.0	47.0
Total Split (%)	31.7%	31.7%	31.7%	29.2%	68.3%	39.2%	39.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag	Lag
Lead-Lag Optimize?				Yes		Yes	Yes
Recall Mode	None	None	None	None	Min	Min	Min
Act Effct Green (s)	33.5	33.5	33.5	30.5	77.5	42.5	42.5
Actuated g/C Ratio	0.28	0.28	0.28	0.25	0.65	0.35	0.35
v/c Ratio	0.99	1.02	0.83	2.32	0.61	1.37	0.71
Control Delay	82.2	91.0	50.4	624.3	13.8	204.4	20.0
Queue Delay	0.0	0.0	0.0	0.0	3.7	0.0	0.0
Total Delay	82.2	91.0	50.4	624.3	17.5	204.4	20.0
LOS	F	F	D	F	B	F	B
Approach Delay		76.0			276.8	160.8	
Approach LOS		E			F	F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.32	
Intersection Signal Delay: 189.6	Intersection LOS: F
Intersection Capacity Utilization 156.0%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	874	7	421	1042	1396	0	0	1717	532
Future Volume (veh/h)	0	0	0	874	7	421	1042	1396	0	0	1717	532
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				983	0	190	1063	1424	0	0	1752	353
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				1010	0	450	460	2331	0	0	1279	570
Arrive On Green				0.28	0.00	0.28	0.25	0.65	0.00	0.00	0.35	0.35
Sat Flow, veh/h				3619	0	1610	1810	3705	0	0	3705	1610
Grp Volume(v), veh/h				983	0	190	1063	1424	0	0	1752	353
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1805	0	0	1805	1610
Q Serve(g_s), s				32.3	0.0	11.6	30.5	27.7	0.0	0.0	42.5	21.8
Cycle Q Clear(g_c), s				32.3	0.0	11.6	30.5	27.7	0.0	0.0	42.5	21.8
Prop In Lane				1.00		1.00	1.00		0.00	0.00		1.00
Lane Grp Cap(c), veh/h				1010	0	450	460	2331	0	0	1279	570
V/C Ratio(X)				0.97	0.00	0.42	2.31	0.61	0.00	0.00	1.37	0.62
Avail Cap(c_a), veh/h				1010	0	450	460	2331	0	0	1279	570
HCM Platoon Ratio				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				42.8	0.0	35.3	44.7	12.4	0.0	0.0	38.8	32.1
Incr Delay (d2), s/veh				21.9	0.0	0.6	596.9	0.5	0.0	0.0	171.7	2.0
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				16.9	0.0	4.5	89.5	10.1	0.0	0.0	48.5	8.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				64.7	0.0	36.0	641.6	12.9	0.0	0.0	210.4	34.1
LnGrp LOS				E	A	D	F	B	A	A	F	C
Approach Vol, veh/h					1173			2487			2105	
Approach Delay, s/veh					60.1			281.6			180.9	
Approach LOS					E			F			F	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	82.0		35.0	47.0		38.0						
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5						
Max Green Setting (Gmax), s	77.5		30.5	42.5		33.5						
Max Q Clear Time (g_c+I1), s	29.7		32.5	44.5		34.3						
Green Ext Time (p_c), s	14.7		0.0	0.0		0.0						

Intersection Summary		
HCM 6th Ctrl Delay		199.8
HCM 6th LOS		F

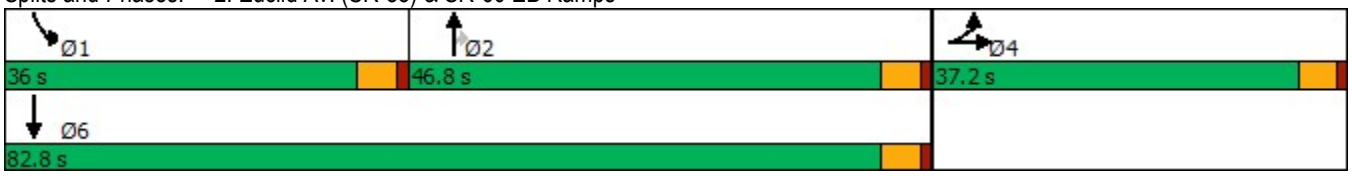
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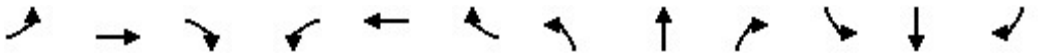
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Volume (vph)	335	6	1806	778	409	1930
Future Volume (vph)	335	6	1806	778	409	1930
Turn Type	Split	NA	NA	Perm	Prot	NA
Protected Phases	4	4	2		1	6
Permitted Phases				2		
Detector Phase	4	4	2	2	1	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag			Lag	Lag	Lead	
Lead-Lag Optimize?			Yes	Yes	Yes	
Recall Mode	None	None	Min	Min	None	Min
Act Effct Green (s)	32.7	32.7	42.3	42.3	30.2	77.0
Actuated g/C Ratio	0.28	0.28	0.36	0.36	0.25	0.65
v/c Ratio	0.67	1.61	1.46	0.98	0.93	0.86
Control Delay	46.5	314.5	243.1	46.9	71.5	21.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	46.9
Total Delay	46.5	314.5	243.1	46.9	71.5	68.3
LOS	D	F	F	D	E	E
Approach Delay		231.8	184.1			68.8
Approach LOS		F	F			E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.7	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.61	
Intersection Signal Delay: 146.3	Intersection LOS: F
Intersection Capacity Utilization 156.0%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	335	6	636	0	0	0	0	1806	778	409	1930	0
Future Volume (veh/h)	335	6	636	0	0	0	0	1806	778	409	1930	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.97	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	349	6	588				0	1881	683	426	2010	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	501	5	442				0	1293	561	453	2335	0
Arrive On Green	0.28	0.28	0.28				0.00	0.36	0.36	0.25	0.65	0.00
Sat Flow, veh/h	1810	16	1596				0	3705	1567	1810	3705	0
Grp Volume(v), veh/h	349	0	594				0	1881	683	426	2010	0
Grp Sat Flow(s),veh/h/ln	1810	0	1613				0	1805	1567	1810	1805	0
Q Serve(g_s), s	20.4	0.0	32.7				0.0	42.3	42.3	27.2	52.4	0.0
Cycle Q Clear(g_c), s	20.4	0.0	32.7				0.0	42.3	42.3	27.2	52.4	0.0
Prop In Lane	1.00		0.99				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	501	0	447				0	1293	561	453	2335	0
V/C Ratio(X)	0.70	0.00	1.33				0.00	1.45	1.22	0.94	0.86	0.00
Avail Cap(c_a), veh/h	501	0	447				0	1293	561	483	2394	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	38.3	0.0	42.7				0.0	37.9	37.9	43.4	16.6	0.0
Incr Delay (d2), s/veh	4.2	0.0	163.4				0.0	209.0	112.9	25.8	3.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.3	0.0	32.7				0.0	55.4	33.1	15.1	19.8	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	42.4	0.0	206.1				0.0	246.9	150.8	69.2	20.0	0.0
LnGrp LOS	D	A	F				A	F	F	E	B	A
Approach Vol, veh/h		943						2564			2436	
Approach Delay, s/veh		145.5						221.3			28.6	
Approach LOS		F						F			C	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	34.1	46.8		37.2		80.9
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	29.2	44.3		34.7		54.4
Green Ext Time (p_c), s	0.3	0.0		0.0		17.1

Intersection Summary	
HCM 6th Ctrl Delay	130.3
HCM 6th LOS	F

Notes

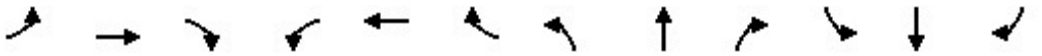
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations										
Traffic Volume (vph)	174	573	125	423	170	2147	101	306	1733	198
Future Volume (vph)	174	573	125	423	170	2147	101	306	1733	198
Turn Type	Prot	NA	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8	5	2		1	6	
Permitted Phases							2			6
Detector Phase	7	4	3	8	5	2	2	1	6	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	20.0	33.7	17.3	31.0	23.0	51.7	51.7	17.3	46.0	46.0
Total Split (%)	16.7%	28.1%	14.4%	25.8%	19.2%	43.1%	43.1%	14.4%	38.3%	38.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	15.2	29.2	12.2	26.2	16.7	47.2	47.2	12.8	43.3	43.3
Actuated g/C Ratio	0.13	0.24	0.10	0.22	0.14	0.40	0.40	0.11	0.36	0.36
v/c Ratio	0.89	1.02	0.80	0.83	0.80	1.06	0.16	0.99	0.93	0.33
Control Delay	92.3	76.7	85.3	49.1	74.4	72.7	6.4	100.8	46.9	11.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	92.3	76.7	85.3	49.1	74.4	72.7	6.4	100.8	46.9	11.9
LOS	F	E	F	D	E	E	A	F	D	B
Approach Delay		79.3		55.1		70.1			51.2	
Approach LOS		E		E		E			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.4	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.06	
Intersection Signal Delay: 63.3	Intersection LOS: E
Intersection Capacity Utilization 103.9%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 3: Euclid Av. (SR-83) & Walnut Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	174	573	304	125	423	210	170	2147	101	306	1733	198
Future Volume (veh/h)	174	573	304	125	423	210	170	2147	101	306	1733	198
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	183	603	162	132	445	110	179	2260	53	322	1824	104
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	207	654	175	155	579	142	204	2172	613	332	2080	587
Arrive On Green	0.15	0.29	0.29	0.12	0.25	0.25	0.15	0.48	0.48	0.13	0.46	0.46
Sat Flow, veh/h	1619	2735	733	1619	2790	684	1619	5400	1524	3048	5400	1524
Grp Volume(v), veh/h	183	396	369	132	286	269	179	2260	53	322	1824	104
Grp Sat Flow(s),veh/h/ln	1619	1800	1668	1619	1800	1675	1619	1800	1524	1524	1800	1524
Q Serve(g_s), s	13.0	25.0	25.2	9.4	17.3	17.6	12.7	47.2	2.2	12.3	35.8	4.7
Cycle Q Clear(g_c), s	13.0	25.0	25.2	9.4	17.3	17.6	12.7	47.2	2.2	12.3	35.8	4.7
Prop In Lane	1.00		0.44	1.00		0.41	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	207	431	399	155	374	348	204	2172	613	332	2080	587
V/C Ratio(X)	0.89	0.92	0.92	0.85	0.76	0.77	0.88	1.04	0.09	0.97	0.88	0.18
Avail Cap(c_a), veh/h	214	448	415	177	407	378	255	2172	613	332	2080	587
HCM Platoon Ratio	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.8	40.7	40.8	51.1	41.4	41.5	48.9	30.3	18.7	50.8	29.0	20.7
Incr Delay (d2), s/veh	32.1	23.8	25.7	27.9	7.8	9.0	23.4	30.8	0.1	40.8	4.6	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.8	13.1	12.4	4.8	7.9	7.6	6.2	24.2	0.8	6.4	14.7	1.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	80.9	64.6	66.5	79.0	49.2	50.5	72.3	61.1	18.8	91.6	33.6	20.8
LnGrp LOS	F	E	E	E	D	D	E	F	B	F	C	C
Approach Vol, veh/h		948			687			2492			2250	
Approach Delay, s/veh		68.5			55.4			61.0			41.3	
Approach LOS		E			E			E			D	

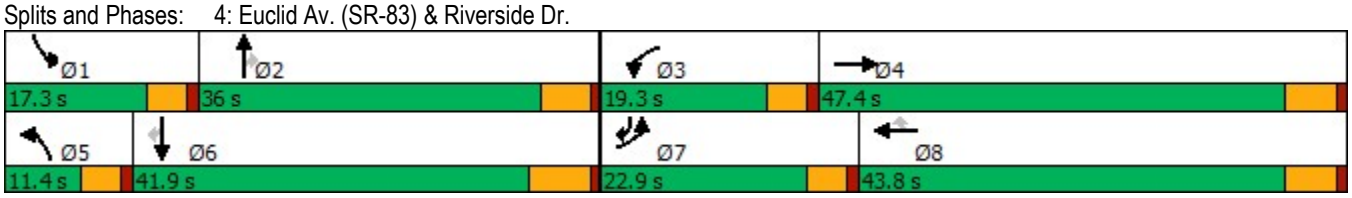
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	17.3	51.7	15.8	32.6	19.3	49.7	19.5	28.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	12.8	47.2	12.8	29.2	18.5	41.5	15.5	26.5
Max Q Clear Time (g_c+I1), s	14.3	49.2	11.4	27.2	14.7	37.8	15.0	19.6
Green Ext Time (p_c), s	0.0	0.0	0.0	0.9	0.2	3.1	0.0	1.7

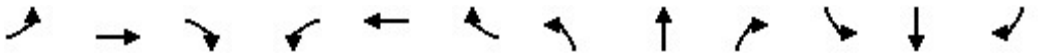
Intersection Summary	
HCM 6th Ctrl Delay	54.6
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	158	973	188	697	83	303	2082	442	125	1602	429
Future Volume (vph)	158	973	188	697	83	303	2082	442	125	1602	429
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4	3	8		5	2		1	6	7
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	7
Switch Phase											
Minimum Initial (s)	5.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	22.9	47.4	19.3	43.8	43.8	11.4	36.0	36.0	17.3	41.9	22.9
Total Split (%)	19.1%	39.5%	16.1%	36.5%	36.5%	9.5%	30.0%	30.0%	14.4%	34.9%	19.1%
Yellow Time (s)	3.6	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	15.2	41.6	14.7	41.1	41.1	6.8	31.6	31.6	11.7	35.4	57.1
Actuated g/C Ratio	0.13	0.35	0.12	0.34	0.34	0.06	0.26	0.26	0.10	0.30	0.48
v/c Ratio	0.78	1.88	0.96	0.60	0.14	3.36	2.34	0.84	0.80	1.61	0.57
Control Delay	75.6	428.6	108.4	35.9	0.5	1108.2	628.0	40.1	87.0	307.5	21.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	75.6	428.6	108.4	35.9	0.5	1108.2	628.0	40.1	87.0	307.5	21.6
LOS	E	F	F	D	A	F	F	D	F	F	C
Approach Delay		385.7		47.0			587.6			237.9	
Approach LOS		F		D			F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 3.36	
Intersection Signal Delay: 375.2	Intersection LOS: F
Intersection Capacity Utilization 162.2%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	158	973	172	188	697	83	303	2082	442	125	1602	429
Future Volume (veh/h)	158	973	172	188	697	83	303	2082	442	125	1602	429
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	160	983	143	190	704	45	306	2103	383	126	1618	334
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	184	533	77	198	1215	533	92	888	396	149	1009	624
Arrive On Green	0.11	0.35	0.35	0.12	0.36	0.36	0.06	0.26	0.26	0.09	0.30	0.30
Sat Flow, veh/h	1619	1536	223	1619	3420	1502	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	160	0	1126	190	704	45	306	2103	383	126	1618	334
Grp Sat Flow(s),veh/h/ln	1619	0	1760	1619	1710	1502	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	11.7	0.0	41.6	14.0	20.1	2.4	6.8	31.2	29.8	9.2	35.4	19.9
Cycle Q Clear(g_c), s	11.7	0.0	41.6	14.0	20.1	2.4	6.8	31.2	29.8	9.2	35.4	19.9
Prop In Lane	1.00		0.13	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	184	0	610	198	1215	533	92	888	396	149	1009	624
V/C Ratio(X)	0.87	0.00	1.85	0.96	0.58	0.08	3.34	2.37	0.97	0.85	1.60	0.54
Avail Cap(c_a), veh/h	247	0	610	198	1215	533	92	888	396	171	1009	624
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.3	0.0	39.2	52.3	31.4	25.7	56.6	44.4	43.9	53.6	42.3	26.8
Incr Delay (d2), s/veh	17.4	0.0	386.9	51.4	0.7	0.1	1078.2	619.4	36.6	24.9	276.3	0.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	0.0	82.6	8.4	8.1	0.8	30.1	88.8	14.8	4.7	53.1	7.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	69.7	0.0	426.1	103.7	32.1	25.8	1134.8	663.8	80.5	78.6	318.6	27.7
LnGrp LOS	E	A	F	F	C	C	F	F	F	E	F	C
Approach Vol, veh/h		1286			939			2792			2078	
Approach Delay, s/veh		381.8			46.3			635.4			257.3	
Approach LOS		F			D			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.6	37.7	19.3	47.4	11.4	41.9	18.3	48.4
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	12.7	* 31	14.7	41.6	6.8	35.4	18.3	38.0
Max Q Clear Time (g_c+I1), s	11.2	33.2	16.0	43.6	8.8	37.4	13.7	22.1
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.1	4.1

Intersection Summary	
HCM 6th Ctrl Delay	400.7
HCM 6th LOS	F

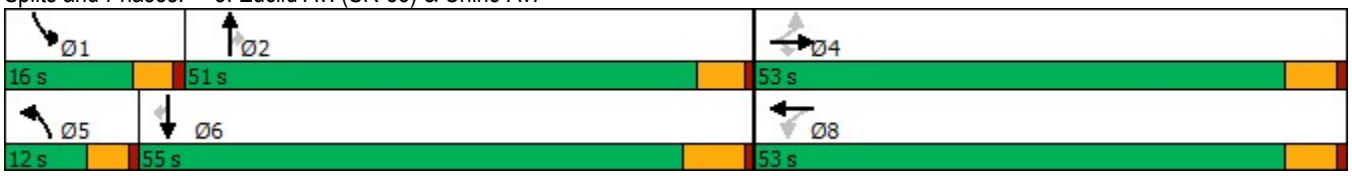
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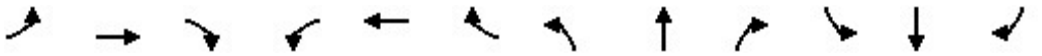
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	153	684	99	165	406	86	2318	262	111	1664	181
Future Volume (vph)	153	684	99	165	406	86	2318	262	111	1664	181
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	53.0	53.0	53.0	53.0	53.0	12.0	51.0	51.0	16.0	55.0	55.0
Total Split (%)	44.2%	44.2%	44.2%	44.2%	44.2%	10.0%	42.5%	42.5%	13.3%	45.8%	45.8%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8		5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	47.2	47.2	47.2		47.2	7.4	46.5	46.5	10.7	48.5	48.5
Actuated g/C Ratio	0.39	0.39	0.39		0.39	0.06	0.39	0.39	0.09	0.40	0.40
v/c Ratio	0.77	1.00	0.16		10.36	0.90	1.80	0.43	0.80	1.24	0.27
Control Delay	57.6	69.7	8.2		4247.2	122.5	390.5	22.5	89.3	147.4	10.6
Queue Delay	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.6	69.7	8.2		4247.2	122.5	390.5	22.5	89.3	147.4	10.6
LOS	E	E	A		F	F	F	C	F	F	B
Approach Delay		61.2			4247.2		345.6			131.4	
Approach LOS		E			F		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 10.36	
Intersection Signal Delay: 668.9	Intersection LOS: F
Intersection Capacity Utilization 170.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	153	684	99	165	406	122	86	2318	262	111	1664	181
Future Volume (veh/h)	153	684	99	165	406	122	86	2318	262	111	1664	181
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	158	705	82	170	419	120	89	2390	208	114	1715	155
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	225	708	600	38	22	5	100	1305	582	136	1382	617
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.06	0.38	0.38	0.08	0.40	0.40
Sat Flow, veh/h	787	1800	1525	2	56	12	1619	3420	1525	1619	3420	1525
Grp Volume(v), veh/h	158	705	82	709	0	0	89	2390	208	114	1715	155
Grp Sat Flow(s),veh/h/ln	787	1800	1525	70	0	0	1619	1710	1525	1619	1710	1525
Q Serve(g_s), s	0.0	46.9	4.1	0.3	0.0	0.0	6.6	45.8	11.7	8.3	48.5	8.1
Cycle Q Clear(g_c), s	44.1	46.9	4.1	47.2	0.0	0.0	6.6	45.8	11.7	8.3	48.5	8.1
Prop In Lane	1.00		1.00	0.24		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	225	708	600	65	0	0	100	1305	582	136	1382	617
V/C Ratio(X)	0.70	1.00	0.14	10.99	0.00	0.00	0.89	1.83	0.36	0.84	1.24	0.25
Avail Cap(c_a), veh/h	225	708	600	65	0	0	100	1305	582	154	1382	617
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	35.4	36.3	23.3	42.8	0.0	0.0	55.9	37.1	26.6	54.1	35.8	23.7
Incr Delay (d2), s/veh	9.4	32.7	0.1	4524.0	0.0	0.0	55.5	377.0	1.7	26.1	114.6	1.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.8	25.7	1.5	83.0	0.0	0.0	4.1	85.9	4.3	4.2	40.4	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	44.9	69.0	23.4	4566.8	0.0	0.0	111.4	414.1	28.3	80.2	150.4	24.7
LnGrp LOS	D	E	C	F	A	A	F	F	C	F	F	C
Approach Vol, veh/h		945			709			2687			1984	
Approach Delay, s/veh		61.0			4566.8			374.2			136.5	
Approach LOS		E			F			F			F	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	14.7	52.3		53.0	12.0	55.0		53.0				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	11.4	* 46		47.2	7.4	48.5		47.2				
Max Q Clear Time (g_c+I1), s	10.3	47.8		48.9	8.6	50.5		49.2				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	0.0		0.0				

Intersection Summary		
HCM 6th Ctrl Delay		722.8
HCM 6th LOS		F

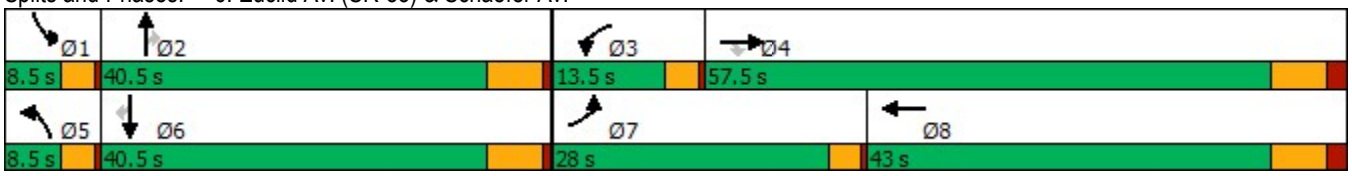
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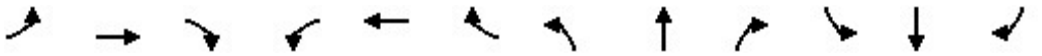
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	404	335	180	175	270	185	2090	65	117	1664	186
Future Volume (vph)	404	335	180	175	270	185	2090	65	117	1664	186
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	28.0	57.5	57.5	13.5	43.0	8.5	40.5	40.5	8.5	40.5	40.5
Total Split (%)	23.3%	47.9%	47.9%	11.3%	35.8%	7.1%	33.8%	33.8%	7.1%	33.8%	33.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	24.5	50.5	50.5	10.0	36.0	5.0	34.5	34.5	5.0	34.5	34.5
Actuated g/C Ratio	0.20	0.42	0.42	0.08	0.30	0.04	0.29	0.29	0.04	0.29	0.29
v/c Ratio	1.26	0.46	0.26	1.34	0.98	2.85	2.19	0.13	1.81	1.74	0.37
Control Delay	180.9	27.3	9.2	237.9	73.3	893.1	563.6	0.5	447.7	368.0	13.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	180.9	27.3	9.2	237.9	73.3	893.1	563.6	0.5	447.7	368.0	13.7
LOS	F	C	A	F	E	F	F	A	F	F	B
Approach Delay		91.2			116.0		574.1			339.2	
Approach LOS		F			F		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.85	
Intersection Signal Delay: 368.4	Intersection LOS: F
Intersection Capacity Utilization 140.5%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	404	335	180	175	270	228	185	2090	65	117	1664	186
Future Volume (veh/h)	404	335	180	175	270	228	185	2090	65	117	1664	186
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.98
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	416	345	121	180	278	229	191	2155	60	121	1715	147
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	331	758	642	135	274	225	67	983	439	67	983	428
Arrive On Green	0.20	0.42	0.42	0.08	0.30	0.30	0.04	0.29	0.29	0.04	0.29	0.29
Sat Flow, veh/h	1619	1800	1525	1619	912	752	1619	3420	1525	1619	3420	1490
Grp Volume(v), veh/h	416	345	121	180	0	507	191	2155	60	121	1715	147
Grp Sat Flow(s),veh/h/ln	1619	1800	1525	1619	0	1664	1619	1710	1525	1619	1710	1490
Q Serve(g_s), s	24.5	16.5	6.0	10.0	0.0	36.0	5.0	34.5	3.5	5.0	34.5	9.4
Cycle Q Clear(g_c), s	24.5	16.5	6.0	10.0	0.0	36.0	5.0	34.5	3.5	5.0	34.5	9.4
Prop In Lane	1.00		1.00	1.00		0.45	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	331	758	642	135	0	499	67	983	439	67	983	428
V/C Ratio(X)	1.26	0.46	0.19	1.33	0.00	1.02	2.83	2.19	0.14	1.79	1.74	0.34
Avail Cap(c_a), veh/h	331	758	642	135	0	499	67	983	439	67	983	428
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.7	24.9	21.9	55.0	0.0	42.0	57.5	42.7	31.7	57.5	42.7	33.8
Incr Delay (d2), s/veh	138.6	0.3	0.1	192.1	0.0	44.3	863.5	539.6	0.1	409.7	339.1	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	22.3	6.8	2.1	11.2	0.0	20.2	18.1	87.3	1.3	9.6	59.9	3.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	186.3	25.2	22.0	247.1	0.0	86.3	921.0	582.4	31.8	467.2	381.9	34.3
LnGrp LOS	F	C	C	F	A	F	F	F	C	F	F	C
Approach Vol, veh/h		882			687			2406			1983	
Approach Delay, s/veh		100.8			128.4			595.5			361.3	
Approach LOS		F			F			F			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.5	40.5	13.5	57.5	8.5	40.5	28.0	43.0
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	34.5	10.0	50.5	5.0	34.5	24.5	36.0
Max Q Clear Time (g_c+I1), s	7.0	36.5	12.0	18.5	7.0	36.5	26.5	38.0
Green Ext Time (p_c), s	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	390.5
HCM 6th LOS	F

Intersection	
Int Delay, s/veh	0.1

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	11	2023	5	0	1696
Future Vol, veh/h	0	11	2023	5	0	1696
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	12	2199	5	0	1843

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	1102	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	210	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	210	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	23.2	0	0
HCM LOS	C		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	210	-
HCM Lane V/C Ratio	-	-	0.057	-
HCM Control Delay (s)	-	-	23.2	-
HCM Lane LOS	-	-	C	-
HCM 95th %tile Q(veh)	-	-	0.2	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	37	1990	14	0	1696
Future Vol, veh/h	0	37	1990	14	0	1696
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	40	2163	15	0	1843

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	1089	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	214	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	214	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	25.7	0	0
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	214	-
HCM Lane V/C Ratio	-	-	0.188	-
HCM Control Delay (s)	-	-	25.7	-
HCM Lane LOS	-	-	D	-
HCM 95th %tile Q(veh)	-	-	0.7	-

Intersection	
Int Delay, s/veh	0.2

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	35	1970	17	0	1696
Future Vol, veh/h	0	35	1970	17	0	1696
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	38	2141	18	0	1843

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	1080	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	217	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	217	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	WB	NB	SB
HCM Control Delay, s	25.1	0	0
HCM LOS	D		

Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	217	-
HCM Lane V/C Ratio	-	-	0.175	-
HCM Control Delay (s)	-	-	25.1	-
HCM Lane LOS	-	-	D	-
HCM 95th %tile Q(veh)	-	-	0.6	-

Intersection	
Int Delay, s/veh	0.3

Movement	WBL	WBR	NBT	NBR	SBL	SBT
Lane Configurations						
Traffic Vol, veh/h	0	45	1942	48	0	1696
Future Vol, veh/h	0	45	1942	48	0	1696
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	-	0	-	-	-	-
Veh in Median Storage, #	0	-	0	-	-	0
Grade, %	0	-	0	-	-	0
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	49	2111	52	0	1843

Major/Minor	Minor1		Major1		Major2	
Conflicting Flow All	-	1082	0	0	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	6.9	-	-	-	-
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	3.3	-	-	-	-
Pot Cap-1 Maneuver	0	216	-	-	0	-
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %			-	-		-
Mov Cap-1 Maneuver	-	216	-	-	-	-
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

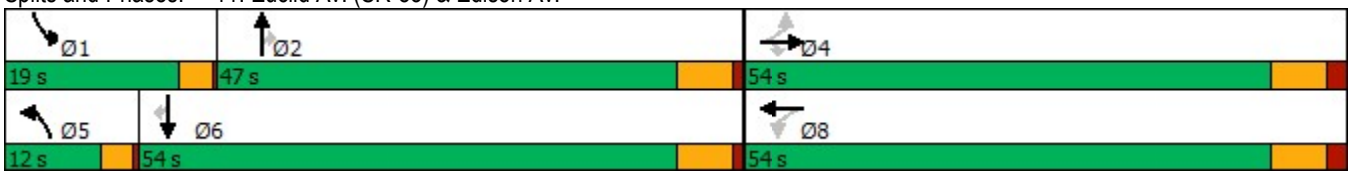
Approach	WB	NB	SB
HCM Control Delay, s	26.5	0	0
HCM LOS	D		

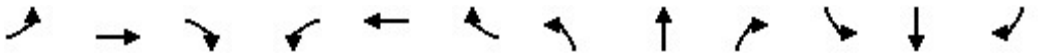
Minor Lane/Major Mvmt	NBT	NBR	WBLn1	SBT
Capacity (veh/h)	-	-	216	-
HCM Lane V/C Ratio	-	-	0.226	-
HCM Control Delay (s)	-	-	26.5	-
HCM Lane LOS	-	-	D	-
HCM 95th %tile Q(veh)	-	-	0.8	-

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	352	1372	236	194	736	227	1727	163	390	1231	254
Future Volume (vph)	352	1372	236	194	736	227	1727	163	390	1231	254
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	47.0	47.0	47.0	47.0	47.0	8.5	41.0	41.0	15.5	48.0	48.0
Actuated g/C Ratio	0.39	0.39	0.39	0.39	0.39	0.07	0.34	0.34	0.13	0.40	0.40
v/c Ratio	6.41	1.99	0.37	3.54	1.67	1.05	1.51	0.29	1.91	0.92	0.40
Control Delay	2481.1	473.0	17.3	1199.3	333.5	127.7	264.1	13.3	457.7	45.9	20.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	2481.1	473.0	17.3	1199.3	333.5	127.7	264.1	13.3	457.7	45.9	20.2
LOS	F	F	B	F	F	F	F	B	F	D	C
Approach Delay		778.5			462.1		230.2			128.1	
Approach LOS		F			F		F			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 6.41	
Intersection Signal Delay: 393.6	Intersection LOS: F
Intersection Capacity Utilization 182.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	352	1372	236	194	736	376	227	1727	163	390	1231	254
Future Volume (veh/h)	352	1372	236	194	736	376	227	1727	163	390	1231	254
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.98	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	359	1400	190	198	751	373	232	1762	156	398	1256	208
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	60	705	597	60	442	220	222	1168	509	209	1368	603
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.07	0.34	0.34	0.13	0.40	0.40
Sat Flow, veh/h	455	1800	1525	292	1129	561	3141	3420	1489	1619	3420	1506
Grp Volume(v), veh/h	359	1400	190	198	0	1124	232	1762	156	398	1256	208
Grp Sat Flow(s),veh/h/ln	455	1800	1525	292	0	1690	1570	1710	1489	1619	1710	1506
Q Serve(g_s), s	0.0	47.0	10.4	0.0	0.0	47.0	8.5	41.0	9.2	15.5	41.8	11.5
Cycle Q Clear(g_c), s	47.0	47.0	10.4	47.0	0.0	47.0	8.5	41.0	9.2	15.5	41.8	11.5
Prop In Lane	1.00		1.00	1.00		0.33	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	60	705	597	60	0	662	222	1169	509	209	1368	603
V/C Ratio(X)	5.98	1.99	0.32	3.30	0.00	1.70	1.04	1.51	0.31	1.90	0.92	0.35
Avail Cap(c_a), veh/h	60	705	597	60	0	662	222	1169	509	209	1368	603
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	60.0	36.5	25.4	60.0	0.0	36.5	55.7	39.5	29.0	52.2	34.1	25.1
Incr Delay (d2), s/veh	2278.0	448.7	0.3	1076.4	0.0	320.6	72.0	233.0	0.3	423.8	10.1	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	39.7	107.2	3.7	19.7	0.0	77.1	5.5	53.7	3.2	30.6	17.8	3.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	2338.0	485.2	25.7	1136.4	0.0	357.1	127.7	272.5	29.4	476.1	44.2	25.4
LnGrp LOS	F	F	C	F	A	F	F	F	C	F	D	C
Approach Vol, veh/h		1949			1322			2150			1862	
Approach Delay, s/veh		781.7			473.8			239.3			134.4	
Approach LOS		F			F			F			F	

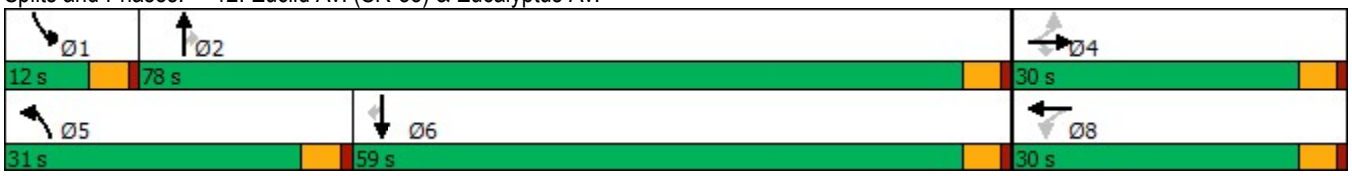
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	19.0	47.0		54.0	12.0	54.0		54.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	17.5	43.0		49.0	10.5	43.8		49.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	2.9		0.0				

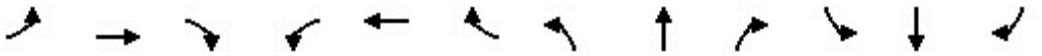
Intersection Summary		
HCM 6th Ctrl Delay	400.2	
HCM 6th LOS	F	

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	59	166	234	46	196	131	1842	23	151	1911	93
Future Volume (vph)	59	166	234	46	196	131	1842	23	151	1911	93
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	30.0	30.0	30.0	30.0	30.0	31.0	78.0	78.0	12.0	59.0	59.0
Total Split (%)	25.0%	25.0%	25.0%	25.0%	25.0%	25.8%	65.0%	65.0%	10.0%	49.2%	49.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	25.6	25.6	25.6	25.6	25.6	15.1	70.2	70.2	7.5	62.6	62.6
Actuated g/C Ratio	0.22	0.22	0.22	0.22	0.22	0.13	0.60	0.60	0.06	0.54	0.54
v/c Ratio	1.05	0.44	0.46	0.25	1.28	0.65	0.93	0.03	1.52	1.09	0.11
Control Delay	183.6	44.6	8.1	43.5	176.4	63.0	31.0	0.3	315.0	76.5	3.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	183.6	44.6	8.1	43.5	176.4	63.0	31.0	0.3	315.0	76.5	3.6
LOS	F	D	A	D	F	E	C	A	F	E	A
Approach Delay		43.7			165.0		32.7			90.0	
Approach LOS		D			F		C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.52	
Intersection Signal Delay: 71.5	Intersection LOS: E
Intersection Capacity Utilization 113.2%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	166	234	46	196	298	131	1842	23	151	1911	93
Future Volume (veh/h)	59	166	234	46	196	298	131	1842	23	151	1911	93
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	61	173	149	48	204	307	136	1919	22	157	1991	86
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	62	392	332	191	141	213	163	2061	919	104	1937	863
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22	0.10	0.60	0.60	0.06	0.57	0.57
Sat Flow, veh/h	808	1800	1525	961	648	976	1619	3420	1525	1619	3420	1524
Grp Volume(v), veh/h	61	173	149	48	0	511	136	1919	22	157	1991	86
Grp Sat Flow(s),veh/h/ln	808	1800	1525	961	0	1624	1619	1710	1525	1619	1710	1524
Q Serve(g_s), s	0.0	9.7	9.9	5.3	0.0	25.5	9.7	59.4	0.7	7.5	66.3	3.0
Cycle Q Clear(g_c), s	25.5	9.7	9.9	15.1	0.0	25.5	9.7	59.4	0.7	7.5	66.3	3.0
Prop In Lane	1.00		1.00	1.00		0.60	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	62	392	332	191	0	354	163	2061	919	104	1937	863
V/C Ratio(X)	0.99	0.44	0.45	0.25	0.00	1.44	0.84	0.93	0.02	1.51	1.03	0.10
Avail Cap(c_a), veh/h	62	392	332	191	0	354	367	2147	958	104	1937	863
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	58.5	39.6	39.7	46.1	0.0	45.8	51.7	21.0	9.4	54.8	25.4	11.7
Incr Delay (d2), s/veh	111.7	0.8	0.9	0.7	0.0	215.2	10.6	7.8	0.0	274.2	28.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.7	4.3	3.7	1.3	0.0	31.0	4.2	21.7	0.2	10.8	30.1	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	170.2	40.4	40.6	46.8	0.0	261.0	62.3	28.9	9.4	329.0	53.4	11.7
LnGrp LOS	F	D	D	D	A	F	E	C	A	F	F	B
Approach Vol, veh/h		383			559			2077			2234	
Approach Delay, s/veh		61.2			242.6			30.9			71.1	
Approach LOS		E			F			C			E	

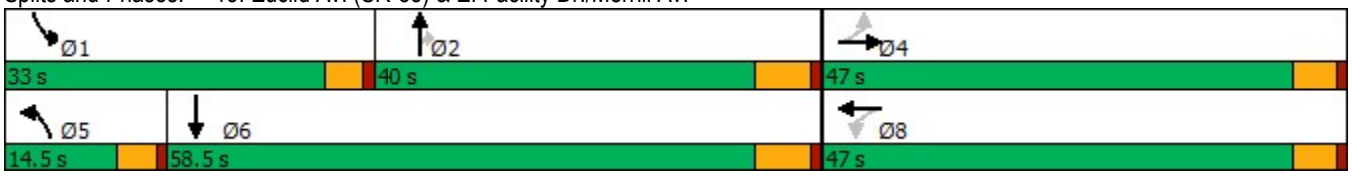
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	12.0	75.1		30.0	16.3	70.8		30.0				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	7.5	73.5		25.5	26.5	54.5		25.5				
Max Q Clear Time (g_c+I1), s	9.5	61.4		27.5	11.7	68.3		27.5				
Green Ext Time (p_c), s	0.0	9.1		0.0	0.3	0.0		0.0				

Intersection Summary			
HCM 6th Ctrl Delay		72.7	
HCM 6th LOS		E	

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	4	22	702	0	3	1340	456	418	2062
Future Volume (vph)	4	22	702	0	3	1340	456	418	2062
Turn Type	Perm	NA	Perm	NA	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	5	2		1	6
Permitted Phases	4		8				2		
Detector Phase	4	4	8	8	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	28.0	28.0	14.5	28.0
Total Split (s)	47.0	47.0	47.0	47.0	14.5	40.0	40.0	33.0	58.5
Total Split (%)	39.2%	39.2%	39.2%	39.2%	12.1%	33.3%	33.3%	27.5%	48.8%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)		5.0		5.0	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)		42.0		42.0	10.0	34.0	34.0	28.5	64.1
Actuated g/C Ratio		0.35		0.35	0.08	0.28	0.28	0.24	0.53
v/c Ratio		0.08		2.52	0.02	1.43	0.92	1.13	1.17
Control Delay		17.9		708.7	51.0	231.1	56.5	126.8	111.2
Queue Delay		0.0		0.0	0.0	0.0	0.0	0.0	0.0
Total Delay		17.9		708.7	51.0	231.1	56.5	126.8	111.2
LOS		B		F	D	F	E	F	F
Approach Delay		17.9		708.7		186.6			113.8
Approach LOS		B		F		F			F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.52	
Intersection Signal Delay: 276.5	Intersection LOS: F
Intersection Capacity Utilization 170.7%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	22	18	702	0	637	3	1340	456	418	2062	12
Future Volume (veh/h)	4	22	18	702	0	637	3	1340	456	418	2062	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	4	23	15	724	0	628	3	1381	436	431	2126	10
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	66	343	209	313	0	231	13	969	423	385	1790	8
Arrive On Green	0.35	0.35	0.35	0.35	0.00	0.35	0.01	0.28	0.28	0.24	0.51	0.51
Sat Flow, veh/h	96	979	597	762	0	661	1619	3420	1493	1619	3491	16
Grp Volume(v), veh/h	42	0	0	1352	0	0	3	1381	436	431	1041	1095
Grp Sat Flow(s),veh/h/ln	1671	0	0	1423	0	0	1619	1710	1493	1619	1710	1797
Q Serve(g_s), s	0.0	0.0	0.0	40.0	0.0	0.0	0.2	34.0	34.0	28.5	61.5	61.5
Cycle Q Clear(g_c), s	2.0	0.0	0.0	42.0	0.0	0.0	0.2	34.0	34.0	28.5	61.5	61.5
Prop In Lane	0.10		0.36	0.54		0.46	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	618	0	0	544	0	0	13	969	423	385	877	922
V/C Ratio(X)	0.07	0.00	0.00	2.48	0.00	0.00	0.23	1.43	1.03	1.12	1.19	1.19
Avail Cap(c_a), veh/h	618	0	0	544	0	0	135	969	423	385	877	922
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.0	0.0	0.0	40.6	0.0	0.0	59.2	43.0	43.0	45.8	29.2	29.2
Incr Delay (d2), s/veh	0.0	0.0	0.0	673.3	0.0	0.0	3.4	197.4	51.9	82.9	95.4	95.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	0.0	0.0	117.5	0.0	0.0	0.1	40.0	17.8	19.6	45.3	47.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.0	0.0	0.0	713.9	0.0	0.0	62.6	240.4	94.9	128.6	124.6	124.9
LnGrp LOS	C	A	A	F	A	A	E	F	F	F	F	F
Approach Vol, veh/h		42			1352			1820			2567	
Approach Delay, s/veh		26.0			713.9			205.2			125.4	
Approach LOS		C			F			F			F	

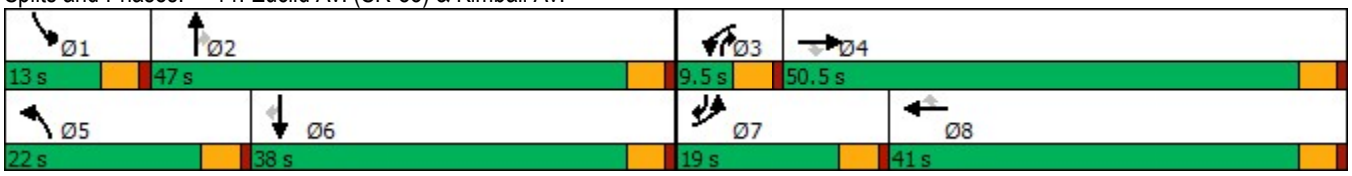
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	33.0	40.0		47.0	5.5	67.5		47.0				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	28.5	34.0		42.0	10.0	52.5		42.0				
Max Q Clear Time (g_c+I1), s	30.5	36.0		4.0	2.2	63.5		44.0				
Green Ext Time (p_c), s	0.0	0.0		0.1	0.0	0.0		0.0				

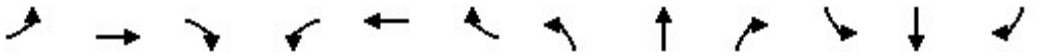
Intersection Summary			
HCM 6th Ctrl Delay		287.5	
HCM 6th LOS		F	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	580	1040	82	95	501	274	98	1012	214	1024	1257	565
Future Volume (vph)	580	1040	82	95	501	274	98	1012	214	1024	1257	565
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	19.0	50.5	50.5	9.5	41.0	41.0	22.0	47.0	9.5	13.0	38.0	19.0
Total Split (%)	15.8%	42.1%	42.1%	7.9%	34.2%	34.2%	18.3%	39.2%	7.9%	10.8%	31.7%	15.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	14.7	40.1	40.1	5.1	30.5	30.5	12.2	39.0	48.6	8.6	35.4	50.0
Actuated g/C Ratio	0.13	0.36	0.36	0.05	0.28	0.28	0.11	0.35	0.44	0.08	0.32	0.45
v/c Ratio	1.52	0.86	0.13	1.33	0.54	0.51	0.56	0.86	0.30	4.58	1.18	0.72
Control Delay	281.5	41.0	1.1	257.3	36.6	15.8	60.8	42.4	12.9	1638.8	124.4	21.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	281.5	41.0	1.1	257.3	36.6	15.8	60.8	42.4	12.9	1638.8	124.4	21.3
LOS	F	D	A	F	D	B	E	D	B	F	F	C
Approach Delay		121.1			54.2			39.0			648.7	
Approach LOS		F			D			D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 110.9	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 4.58	
Intersection Signal Delay: 319.1	Intersection LOS: F
Intersection Capacity Utilization 115.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	580	1040	82	95	501	274	98	1012	214	1024	1257	565
Future Volume (veh/h)	580	1040	82	95	501	274	98	1012	214	1024	1257	565
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	592	1061	72	97	511	209	100	1033	176	1045	1283	535
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	399	1233	550	75	930	415	124	1185	599	234	1194	732
Arrive On Green	0.13	0.36	0.36	0.05	0.27	0.27	0.08	0.35	0.35	0.08	0.35	0.35
Sat Flow, veh/h	2956	3420	1525	1619	3420	1525	1619	3420	1525	2956	3420	1506
Grp Volume(v), veh/h	592	1061	72	97	511	209	100	1033	176	1045	1283	535
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1619	1710	1525	1619	1710	1525	1478	1710	1506
Q Serve(g_s), s	14.5	30.9	3.4	5.0	13.7	12.4	6.5	30.4	8.5	8.5	37.5	30.6
Cycle Q Clear(g_c), s	14.5	30.9	3.4	5.0	13.7	12.4	6.5	30.4	8.5	8.5	37.5	30.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	399	1233	550	75	930	415	124	1185	599	234	1194	732
V/C Ratio(X)	1.48	0.86	0.13	1.29	0.55	0.50	0.81	0.87	0.29	4.47	1.07	0.73
Avail Cap(c_a), veh/h	399	1464	653	75	1161	518	264	1352	674	234	1194	732
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	46.5	31.9	23.1	51.2	33.5	33.0	48.9	32.9	22.4	49.5	35.0	22.2
Incr Delay (d2), s/veh	231.0	4.8	0.1	199.1	0.5	0.9	11.6	5.9	0.3	1571.3	48.6	3.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	17.9	12.8	1.2	6.1	5.5	4.5	2.9	12.4	2.9	54.0	22.2	10.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	277.5	36.6	23.2	250.4	34.0	33.9	60.5	38.8	22.7	1620.8	83.6	26.0
LnGrp LOS	F	D	C	F	C	C	E	D	C	F	F	C
Approach Vol, veh/h		1725			817			1309			2863	
Approach Delay, s/veh		118.7			59.7			38.3			633.9	
Approach LOS		F			E			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	13.0	41.7	9.5	43.2	12.7	42.0	19.0	33.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	8.5	42.5	5.0	46.0	17.5	33.5	14.5	36.5
Max Q Clear Time (g_c+I1), s	10.5	32.4	7.0	32.9	8.5	39.5	16.5	15.7
Green Ext Time (p_c), s	0.0	4.8	0.0	5.8	0.1	0.0	0.0	3.7

Intersection Summary	
HCM 6th Ctrl Delay	315.5
HCM 6th LOS	F

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	480	2	0	241	0	6
Future Vol, veh/h	480	2	0	241	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	522	2	0	262	0	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	523
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	558
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	558
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	11.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	558	-	-	-
HCM Lane V/C Ratio	0.012	-	-	-
HCM Control Delay (s)	11.5	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	0.3

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	475	11	1	228	13	6
Future Vol, veh/h	475	11	1	228	13	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	100	-	0	-
Veh in Median Storage, #	0	-	-	0	1	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	516	12	1	248	14	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	528	0	772	522
Stage 1	-	-	-	-	522	-
Stage 2	-	-	-	-	250	-
Critical Hdwy	-	-	4.1	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	-	-	2.2	-	3.5	3.3
Pot Cap-1 Maneuver	-	-	1049	-	371	559
Stage 1	-	-	-	-	599	-
Stage 2	-	-	-	-	796	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	1049	-	371	559
Mov Cap-2 Maneuver	-	-	-	-	474	-
Stage 1	-	-	-	-	599	-
Stage 2	-	-	-	-	795	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	12.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBL	WBT
Capacity (veh/h)	498	-	-	1049	-
HCM Lane V/C Ratio	0.041	-	-	0.001	-
HCM Control Delay (s)	12.5	-	-	8.4	-
HCM Lane LOS	B	-	-	A	-
HCM 95th %tile Q(veh)	0.1	-	-	0	-

Intersection	
Int Delay, s/veh	0.1

Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Vol, veh/h	479	2	0	229	0	6
Future Vol, veh/h	479	2	0	229	0	6
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	0	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	521	2	0	249	0	7

Major/Minor	Major1		Major2		Minor1	
Conflicting Flow All	0	0	-	-	-	522
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	-	-	0	-	0	559
Stage 1	-	-	0	-	0	-
Stage 2	-	-	0	-	0	-
Platoon blocked, %	-	-		-		
Mov Cap-1 Maneuver	-	-	-	-	-	559
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	NB
HCM Control Delay, s	0	0	11.5
HCM LOS			B

Minor Lane/Major Mvmt	NBLn1	EBT	EBR	WBT
Capacity (veh/h)	559	-	-	-
HCM Lane V/C Ratio	0.012	-	-	-
HCM Control Delay (s)	11.5	-	-	-
HCM Lane LOS	B	-	-	-
HCM 95th %tile Q(veh)	0	-	-	-

Intersection	
Int Delay, s/veh	0.8

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑	↱			↗
Traffic Vol, veh/h	0	980	877	82	0	75
Future Vol, veh/h	0	980	877	82	0	75
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	1065	953	89	0	82

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	998
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	299
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	299
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	21.5
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	299
HCM Lane V/C Ratio	-	-	-	0.273
HCM Control Delay (s)	-	-	-	21.5
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	1.1

Intersection	
Int Delay, s/veh	26

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	188	793	890	68	138	68
Future Vol, veh/h	188	793	890	68	138	68
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	-
Veh in Median Storage, #	-	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	204	862	967	74	150	74

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1041	0	-	0	2274	1004
Stage 1	-	-	-	-	1004	-
Stage 2	-	-	-	-	1270	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	676	-	-	-	~ 45	296
Stage 1	-	-	-	-	357	-
Stage 2	-	-	-	-	267	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	676	-	-	-	~ 31	296
Mov Cap-2 Maneuver	-	-	-	-	~ 132	-
Stage 1	-	-	-	-	249	-
Stage 2	-	-	-	-	267	-

Approach	EB	WB	SB
HCM Control Delay, s	2.4	0	258.9
HCM LOS			F

Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	676	-	-	-	162
HCM Lane V/C Ratio	0.302	-	-	-	1.382
HCM Control Delay (s)	12.6	-	-	-	258.9
HCM Lane LOS	B	-	-	-	F
HCM 95th %tile Q(veh)	1.3	-	-	-	13.8

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	0.1

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations		↑	↱			↗
Traffic Vol, veh/h	0	930	944	9	0	13
Future Vol, veh/h	0	930	944	9	0	13
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	-	-	-	-	-	0
Veh in Median Storage, #	-	0	0	-	0	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	1011	1026	10	0	14

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	-	0	-	0	-	1031
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-
Critical Hdwy	-	-	-	-	-	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-
Critical Hdwy Stg 2	-	-	-	-	-	-
Follow-up Hdwy	-	-	-	-	-	3.3
Pot Cap-1 Maneuver	0	-	-	-	0	286
Stage 1	0	-	-	-	0	-
Stage 2	0	-	-	-	0	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	-	-	-	-	-	286
Mov Cap-2 Maneuver	-	-	-	-	-	-
Stage 1	-	-	-	-	-	-
Stage 2	-	-	-	-	-	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	18.2
HCM LOS			C

Minor Lane/Major Mvmt	EBT	WBT	WBR	SBLn1
Capacity (veh/h)	-	-	-	286
HCM Lane V/C Ratio	-	-	-	0.049
HCM Control Delay (s)	-	-	-	18.2
HCM Lane LOS	-	-	-	C
HCM 95th %tile Q(veh)	-	-	-	0.2

Lane Group	EBT	WBL	WBT	NBL
Lane Configurations				
Traffic Volume (vph)	468	5	220	9
Future Volume (vph)	468	5	220	9
Turn Type	NA	Prot	NA	Prot
Protected Phases	4	3	8	2
Permitted Phases				
Detector Phase	4	3	8	2
Switch Phase				
Minimum Initial (s)	10.0	5.0	10.0	10.0
Minimum Split (s)	22.5	9.6	15.5	27.5
Total Split (s)	77.0	12.0	89.0	31.0
Total Split (%)	64.2%	10.0%	74.2%	25.8%
Yellow Time (s)	4.5	3.6	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.5	4.6	5.5	5.5
Lead/Lag	Lag	Lead		
Lead-Lag Optimize?	Yes	Yes		
Recall Mode	None	None	None	Min
Act Effct Green (s)	17.4	5.6	18.5	12.4
Actuated g/C Ratio	0.40	0.13	0.43	0.29
v/c Ratio	0.69	0.02	0.29	0.03
Control Delay	16.7	24.6	8.6	13.7
Queue Delay	0.0	0.0	0.0	0.0
Total Delay	16.7	24.6	8.6	13.7
LOS	B	C	A	B
Approach Delay	16.7		8.9	13.7
Approach LOS	B		A	B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 43.1	
Natural Cycle: 65	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.69	
Intersection Signal Delay: 14.3	Intersection LOS: B
Intersection Capacity Utilization 43.2%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 21: Sultana Av. & Schaefer Av.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	468	18	5	220	9	3
Future Volume (veh/h)	468	18	5	220	9	3
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	509	20	5	239	10	3
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	680	27	12	936	305	92
Arrive On Green	0.37	0.37	0.01	0.49	0.24	0.24
Sat Flow, veh/h	1816	71	1810	1900	1263	379
Grp Volume(v), veh/h	0	529	5	239	14	0
Grp Sat Flow(s),veh/h/ln	0	1887	1810	1900	1769	0
Q Serve(g_s), s	0.0	10.1	0.1	3.0	0.3	0.0
Cycle Q Clear(g_c), s	0.0	10.1	0.1	3.0	0.3	0.0
Prop In Lane		0.04	1.00		0.71	0.21
Lane Grp Cap(c), veh/h	0	707	12	936	427	0
V/C Ratio(X)	0.00	0.75	0.41	0.26	0.03	0.00
Avail Cap(c_a), veh/h	0	3261	324	3835	1090	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	0.0	11.2	20.5	6.1	12.0	0.0
Incr Delay (d2), s/veh	0.0	1.6	8.0	0.1	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	3.0	0.1	0.7	0.1	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	0.0	12.9	28.4	6.2	12.0	0.0
LnGrp LOS	A	B	C	A	B	A
Approach Vol, veh/h	529			244	14	
Approach Delay, s/veh	12.9			6.7	12.0	
Approach LOS	B			A	B	

Timer - Assigned Phs		2	3	4		8
Phs Duration (G+Y+Rc), s		15.5	4.9	21.0		25.9
Change Period (Y+Rc), s		5.5	4.6	5.5		5.5
Max Green Setting (Gmax), s		25.5	7.4	71.5		83.5
Max Q Clear Time (g_c+I1), s		2.3	2.1	12.1		5.0
Green Ext Time (p_c), s		0.0	0.0	3.4		1.3

Intersection Summary	
HCM 6th Ctrl Delay	10.9
HCM 6th LOS	B

Notes

User approved volume balancing among the lanes for turning movement.

Intersection	
Int Delay, s/veh	4.5

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	4	28	4	8	12	11
Future Vol, veh/h	4	28	4	8	12	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	4	30	4	9	13	12

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	36	19	25	0	-	0
Stage 1	19	-	-	-	-	-
Stage 2	17	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	982	1065	1603	-	-	-
Stage 1	1009	-	-	-	-	-
Stage 2	1011	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	980	1065	1603	-	-	-
Mov Cap-2 Maneuver	908	-	-	-	-	-
Stage 1	1007	-	-	-	-	-
Stage 2	1011	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	2.4	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1603	-	1042	-	-
HCM Lane V/C Ratio	0.003	-	0.033	-	-
HCM Control Delay (s)	7.3	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	1.8

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	5	6	1	7	36	3
Future Vol, veh/h	5	6	1	7	36	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	5	7	1	8	39	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	51	41	42	0	-	0
Stage 1	41	-	-	-	-	-
Stage 2	10	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	963	1036	1580	-	-	-
Stage 1	987	-	-	-	-	-
Stage 2	1018	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	962	1036	1580	-	-	-
Mov Cap-2 Maneuver	893	-	-	-	-	-
Stage 1	986	-	-	-	-	-
Stage 2	1018	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.8	0.9	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1580	-	966	-	-
HCM Lane V/C Ratio	0.001	-	0.012	-	-
HCM Control Delay (s)	7.3	-	8.8	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	3	7	1	5	39	3
Future Vol, veh/h	3	7	1	5	39	3
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	3	8	1	5	42	3

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	51	44	45	0	-	0
Stage 1	44	-	-	-	-	-
Stage 2	7	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	963	1032	1576	-	-	-
Stage 1	984	-	-	-	-	-
Stage 2	1021	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	962	1032	1576	-	-	-
Mov Cap-2 Maneuver	892	-	-	-	-	-
Stage 1	983	-	-	-	-	-
Stage 2	1021	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.7	1.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1576	-	986	-	-
HCM Lane V/C Ratio	0.001	-	0.011	-	-
HCM Control Delay (s)	7.3	-	8.7	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.7

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	11	3	7	46	0
Future Vol, veh/h	0	11	3	7	46	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	12	3	8	50	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	64	50	50	0	-	0
Stage 1	50	-	-	-	-	-
Stage 2	14	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	947	1024	1570	-	-	-
Stage 1	978	-	-	-	-	-
Stage 2	1014	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	945	1024	1570	-	-	-
Mov Cap-2 Maneuver	882	-	-	-	-	-
Stage 1	976	-	-	-	-	-
Stage 2	1014	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.6	2.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1570	-	1024	-	-
HCM Lane V/C Ratio	0.002	-	0.012	-	-
HCM Control Delay (s)	7.3	-	8.6	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	3.6

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	38	14	10	55	2
Future Vol, veh/h	0	38	14	10	55	2
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	41	15	11	60	2

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	102	61	62	0	-	0
Stage 1	61	-	-	-	-	-
Stage 2	41	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	901	1010	1554	-	-	-
Stage 1	967	-	-	-	-	-
Stage 2	987	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	892	1010	1554	-	-	-
Mov Cap-2 Maneuver	849	-	-	-	-	-
Stage 1	957	-	-	-	-	-
Stage 2	987	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.7	4.3	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1554	-	1010	-	-
HCM Lane V/C Ratio	0.01	-	0.041	-	-
HCM Control Delay (s)	7.3	-	8.7	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0.1	-	-

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	7	18	24	93	0
Future Vol, veh/h	0	7	18	24	93	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	8	20	26	101	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	167	101	101	0	-	0
Stage 1	101	-	-	-	-	-
Stage 2	66	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	828	960	1504	-	-	-
Stage 1	928	-	-	-	-	-
Stage 2	962	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	817	960	1504	-	-	-
Mov Cap-2 Maneuver	799	-	-	-	-	-
Stage 1	916	-	-	-	-	-
Stage 2	962	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.8	3.2	0
HCM LOS	A		

Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1504	-	960	-	-
HCM Lane V/C Ratio	0.013	-	0.008	-	-
HCM Control Delay (s)	7.4	-	8.8	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0	-	0	-	-

Intersection	
Int Delay, s/veh	1.9

Movement	EBL	EBR	NBL	NBT	SBT	SBR
Lane Configurations						
Traffic Vol, veh/h	0	17	29	42	100	0
Future Vol, veh/h	0	17	29	42	100	0
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Stop	Stop	Free	Free	Free	Free
RT Channelized	-	None	-	None	-	None
Storage Length	0	-	100	-	-	-
Veh in Median Storage, #	1	-	-	0	0	-
Grade, %	0	-	-	0	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	0	18	32	46	109	0

Major/Minor	Minor2		Major1		Major2	
Conflicting Flow All	219	109	109	0	-	0
Stage 1	109	-	-	-	-	-
Stage 2	110	-	-	-	-	-
Critical Hdwy	6.4	6.2	4.1	-	-	-
Critical Hdwy Stg 1	5.4	-	-	-	-	-
Critical Hdwy Stg 2	5.4	-	-	-	-	-
Follow-up Hdwy	3.5	3.3	2.2	-	-	-
Pot Cap-1 Maneuver	774	950	1494	-	-	-
Stage 1	921	-	-	-	-	-
Stage 2	920	-	-	-	-	-
Platoon blocked, %				-	-	-
Mov Cap-1 Maneuver	758	950	1494	-	-	-
Mov Cap-2 Maneuver	761	-	-	-	-	-
Stage 1	902	-	-	-	-	-
Stage 2	920	-	-	-	-	-

Approach	EB	NB	SB
HCM Control Delay, s	8.9	3	0
HCM LOS	A		

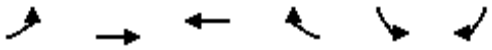
Minor Lane/Major Mvmt	NBL	NBT	EBLn1	SBT	SBR
Capacity (veh/h)	1494	-	950	-	-
HCM Lane V/C Ratio	0.021	-	0.019	-	-
HCM Control Delay (s)	7.5	-	8.9	-	-
HCM Lane LOS	A	-	A	-	-
HCM 95th %tile Q(veh)	0.1	-	0.1	-	-

Lane Group	EBL	EBT	WBT	SBL	SBR
Lane Configurations					
Traffic Volume (vph)	6	924	942	105	12
Future Volume (vph)	6	924	942	105	12
Turn Type	Prot	NA	NA	Prot	Perm
Protected Phases	7	4	8	6	
Permitted Phases					6
Detector Phase	7	4	8	6	6
Switch Phase					
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.6	10.8	22.8	27.8	27.8
Total Split (s)	9.6	91.6	82.0	28.4	28.4
Total Split (%)	8.0%	76.3%	68.3%	23.7%	23.7%
Yellow Time (s)	3.6	4.8	4.8	4.8	4.8
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	5.8	5.8
Lead/Lag	Lead		Lag		
Lead-Lag Optimize?	Yes		Yes		
Recall Mode	None	None	None	Min	Min
Act Effct Green (s)	5.5	53.9	52.7	12.3	12.3
Actuated g/C Ratio	0.07	0.68	0.67	0.16	0.16
v/c Ratio	0.06	0.77	0.87	0.41	0.05
Control Delay	48.0	13.2	20.6	39.7	18.7
Queue Delay	0.0	0.0	0.0	0.0	0.0
Total Delay	48.0	13.2	20.6	39.7	18.7
LOS	D	B	C	D	B
Approach Delay		13.5	20.6	37.5	
Approach LOS		B	C	D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 78.9	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.87	
Intersection Signal Delay: 18.4	Intersection LOS: B
Intersection Capacity Utilization 69.0%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 29: Edison Av. & Sultana Av.





Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	6	924	942	65	105	12
Future Volume (veh/h)	6	924	942	65	105	12
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	7	1004	1024	71	114	13
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	16	1405	1166	81	169	151
Arrive On Green	0.01	0.74	0.66	0.66	0.09	0.09
Sat Flow, veh/h	1810	1900	1756	122	1810	1610
Grp Volume(v), veh/h	7	1004	0	1095	114	13
Grp Sat Flow(s),veh/h/ln	1810	1900	0	1878	1810	1610
Q Serve(g_s), s	0.3	20.3	0.0	32.6	4.2	0.5
Cycle Q Clear(g_c), s	0.3	20.3	0.0	32.6	4.2	0.5
Prop In Lane	1.00			0.06	1.00	1.00
Lane Grp Cap(c), veh/h	16	1405	0	1247	169	151
V/C Ratio(X)	0.43	0.71	0.00	0.88	0.67	0.09
Avail Cap(c_a), veh/h	130	2350	0	2063	589	524
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.2	5.0	0.0	9.4	30.4	28.7
Incr Delay (d2), s/veh	6.3	0.7	0.0	2.6	4.6	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	3.4	0.0	8.6	1.9	0.5
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	40.5	5.7	0.0	12.0	35.0	29.0
LnGrp LOS	D	A	A	B	D	C
Approach Vol, veh/h		1011	1095		127	
Approach Delay, s/veh		5.9	12.0		34.4	
Approach LOS		A	B		C	

Timer - Assigned Phs	4	6	7	8
Phs Duration (G+Y+Rc), s	57.1	12.3	5.2	51.9
Change Period (Y+Rc), s	5.8	5.8	4.6	5.8
Max Green Setting (Gmax), s	85.8	22.6	5.0	76.2
Max Q Clear Time (g_c+I1), s	22.3	6.2	2.3	34.6
Green Ext Time (p_c), s	9.8	0.3	0.0	11.5

Intersection Summary	
HCM 6th Ctrl Delay	10.5
HCM 6th LOS	B

Intersection	
Intersection Delay, s/veh	51.8
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	67	475	55	24	196	16	59	193	28	19	124	23
Future Vol, veh/h	67	475	55	24	196	16	59	193	28	19	124	23
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	71	505	59	26	209	17	63	205	30	20	132	24
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	90.8	16.6	20.1	15.1
HCM LOS	F	C	C	C

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	21%	11%	10%	11%
Vol Thru, %	69%	80%	83%	75%
Vol Right, %	10%	9%	7%	14%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	280	597	236	166
LT Vol	59	67	24	19
Through Vol	193	475	196	124
RT Vol	28	55	16	23
Lane Flow Rate	298	635	251	177
Geometry Grp	1	1	1	1
Degree of Util (X)	0.582	1.097	0.48	0.361
Departure Headway (Hd)	7.34	6.22	7.168	7.744
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	494	584	507	468
Service Time	5.34	4.264	5.168	5.744
HCM Lane V/C Ratio	0.603	1.087	0.495	0.378
HCM Control Delay	20.1	90.8	16.6	15.1
HCM Lane LOS	C	F	C	C
HCM 95th-tile Q	3.7	19.3	2.6	1.6

Intersection	
Intersection Delay, s/veh	1649
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	75	2121	218	28	982	19	73	205	59	22	199	40
Future Vol, veh/h	75	2121	218	28	982	19	73	205	59	22	199	40
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	82	2305	237	30	1067	21	79	223	64	24	216	43
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	2392	808.5	106	83.2
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	22%	3%	3%	8%
Vol Thru, %	61%	88%	95%	76%
Vol Right, %	18%	9%	2%	15%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	337	2414	1029	261
LT Vol	73	75	28	22
Through Vol	205	2121	982	199
RT Vol	59	218	19	40
Lane Flow Rate	366	2624	1118	284
Geometry Grp	1	1	1	1
Degree of Util (X)	0.892	6.249	2.677	0.723
Departure Headway (Hd)	24.746	12.336	20.076	28.228
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	150	341	201	130
Service Time	22.746	10.336	18.076	26.228
HCM Lane V/C Ratio	2.44	7.695	5.562	2.185
HCM Control Delay	106	2392	808.5	83.2
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	6.1	195	41.9	4.1

Intersection	
Intersection Delay, s/veh	383.1
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↕			↕			↕			↕	
Traffic Vol, veh/h	144	255	166	7	122	91	43	700	55	132	488	81
Future Vol, veh/h	144	255	166	7	122	91	43	700	55	132	488	81
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	158	280	182	8	134	100	47	769	60	145	536	89
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	260.3	46.9	530.2	420.1
HCM LOS	F	E	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	5%	25%	3%	19%
Vol Thru, %	88%	45%	55%	70%
Vol Right, %	7%	29%	41%	12%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	798	565	220	701
LT Vol	43	144	7	132
Through Vol	700	255	122	488
RT Vol	55	166	91	81
Lane Flow Rate	877	621	242	770
Geometry Grp	1	1	1	1
Degree of Util (X)	2.095	1.467	0.628	1.84
Departure Headway (Hd)	12.173	12.732	17.834	12.842
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	307	292	205	293
Service Time	10.173	10.732	15.834	10.842
HCM Lane V/C Ratio	2.857	2.127	1.18	2.628
HCM Control Delay	530.2	260.3	46.9	420.1
HCM Lane LOS	F	F	E	F
HCM 95th-tile Q	45.6	23.2	3.6	35

Intersection	
Intersection Delay, s/veh	1816.3
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	119	2056	197	27	1021	55	492	652	166	150	403	126
Future Vol, veh/h	119	2056	197	27	1021	55	492	652	166	150	403	126
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	128	2211	212	29	1098	59	529	701	178	161	433	135
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	2690.9	1156.1	1375.2	684.6
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	38%	5%	2%	22%
Vol Thru, %	50%	87%	93%	59%
Vol Right, %	13%	8%	5%	19%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	1310	2372	1103	679
LT Vol	492	119	27	150
Through Vol	652	2056	1021	403
RT Vol	166	197	55	126
Lane Flow Rate	1409	2551	1186	730
Geometry Grp	1	1	1	1
Degree of Util (X)	3.755	6.771	3.153	1.933
Departure Headway (Hd)	57.963	42.289	79.355	104.418
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	85	128	59	44
Service Time	55.963	40.289	77.355	102.418
HCM Lane V/C Ratio	16.576	19.93	20.102	16.591
HCM Control Delay	1375.2	2690.9	1156.1	684.6
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	24.9	64.7	15.6	7.4

Intersection	
Intersection Delay, s/veh	1937.9
Intersection LOS	F

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Vol, veh/h	23	2360	30	267	1053	284	1	121	754	191	143	21
Future Vol, veh/h	23	2360	30	267	1053	284	1	121	754	191	143	21
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	25	2565	33	290	1145	309	1	132	820	208	155	23
Number of Lanes	0	1	0	0	1	0	0	1	0	0	1	0

Approach	EB	WB	NB	SB
Opposing Approach	WB	EB	SB	NB
Opposing Lanes	1	1	1	1
Conflicting Approach Left	SB	NB	EB	WB
Conflicting Lanes Left	1	1	1	1
Conflicting Approach Right	NB	SB	WB	EB
Conflicting Lanes Right	1	1	1	1
HCM Control Delay	2758.4	1718.5	738.9	310.5
HCM LOS	F	F	F	F

Lane	NBLn1	EBLn1	WBLn1	SBLn1
Vol Left, %	0%	1%	17%	54%
Vol Thru, %	14%	98%	66%	40%
Vol Right, %	86%	1%	18%	6%
Sign Control	Stop	Stop	Stop	Stop
Traffic Vol by Lane	876	2413	1604	355
LT Vol	1	23	267	191
Through Vol	121	2360	1053	143
RT Vol	754	30	284	21
Lane Flow Rate	952	2623	1743	386
Geometry Grp	1	1	1	1
Degree of Util (X)	2.398	6.977	4.605	1.036
Departure Headway (Hd)	41.791	30.572	41.652	92.071
Convergence, Y/N	Yes	Yes	Yes	Yes
Cap	105	157	105	46
Service Time	39.791	28.572	39.652	90.071
HCM Lane V/C Ratio	9.067	16.707	16.6	8.391
HCM Control Delay	738.9	2758.4	1718.5	310.5
HCM Lane LOS	F	F	F	F
HCM 95th-tile Q	19.1	91.4	42.5	4

Intersection	
Int Delay, s/veh	107.6

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	37	2621	57	72	2090	54	24	12	124	63	21	16
Future Vol, veh/h	37	2621	57	72	2090	54	24	12	124	63	21	16
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	40	2849	62	78	2272	59	26	13	135	68	23	17

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2331	0	0	2911	0	0	5438	5447	2880	5492	5449	2302
Stage 1	-	-	-	-	-	-	2960	2960	-	2458	2458	-
Stage 2	-	-	-	-	-	-	2478	2487	-	3034	2991	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	216	-	-	127	-	-	0	0	~ 22	0	0	50
Stage 1	-	-	-	-	-	-	~ 21	33	-	~ 42	62	-
Stage 2	-	-	-	-	-	-	41	59	-	~ 19	32	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	216	-	-	127	-	-	0	0	~ 22	-	0	50
Mov Cap-2 Maneuver	-	-	-	-	-	-	0	0	-	-	0	-
Stage 1	-	-	-	-	-	-	~ 21	33	-	~ 42	62	-
Stage 2	-	-	-	-	-	-	~ 17	59	-	-	32	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.3	2.3	$ 3453.2	
HCM LOS			F	-

Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	22	216	-	-	127	-	-	-
HCM Lane V/C Ratio	7.905	0.186	-	-	0.616	-	-	-
HCM Control Delay (s)	$ 3453.2	25.4	0	-	70.8	0	-	-
HCM Lane LOS	F	D	A	-	F	A	-	-
HCM 95th %tile Q(veh)	22	0.7	-	-	3.2	-	-	-

Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Intersection	
Int Delay, s/veh	18.7

Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		⇕			⇕			⇕			⇕	
Traffic Vol, veh/h	12	2699	85	204	2040	36	94	31	272	127	61	16
Future Vol, veh/h	12	2699	85	204	2040	36	94	31	272	127	61	16
Conflicting Peds, #/hr	0	0	0	0	0	0	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Free	Free	Stop	Stop	Stop	Stop	Stop	Stop
RT Channelized	-	-	None	-	-	None	-	-	None	-	-	None
Storage Length	-	-	-	-	-	-	-	-	-	-	-	-
Veh in Median Storage, #	-	0	-	-	0	-	-	0	-	-	0	-
Grade, %	-	0	-	-	0	-	-	0	-	-	0	-
Peak Hour Factor	92	92	92	92	92	92	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0	0	0	0	0	0	0
Mvmt Flow	13	2934	92	222	2217	39	102	34	296	138	66	17

Major/Minor	Major1			Major2			Minor1			Minor2		
Conflicting Flow All	2256	0	0	3026	0	0	5728	5706	2980	5852	5733	2237
Stage 1	-	-	-	-	-	-	3006	3006	-	2681	2681	-
Stage 2	-	-	-	-	-	-	2722	2700	-	3171	3052	-
Critical Hdwy	4.1	-	-	4.1	-	-	7.1	6.5	6.2	7.1	6.5	6.2
Critical Hdwy Stg 1	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Critical Hdwy Stg 2	-	-	-	-	-	-	6.1	5.5	-	6.1	5.5	-
Follow-up Hdwy	2.2	-	-	2.2	-	-	3.5	4	3.3	3.5	4	3.3
Pot Cap-1 Maneuver	231	-	-	~ 114	-	-	0	0	~ 19	0	0	54
Stage 1	-	-	-	-	-	-	~ 19	~ 32	-	~ 31	~ 47	-
Stage 2	-	-	-	-	-	-	~ 29	46	-	~ 15	~ 30	-
Platoon blocked, %		-	-		-	-						
Mov Cap-1 Maneuver	231	-	-	~ 114	-	-	-	0	~ 19	-	0	54
Mov Cap-2 Maneuver	-	-	-	-	-	-	-	0	-	-	0	-
Stage 1	-	-	-	-	-	-	~ 19	~ 32	-	~ 31	0	-
Stage 2	-	-	-	-	-	-	-	0	-	~ 12	~ 30	-

Approach	EB	WB	NB	SB
HCM Control Delay, s	0.1	46.4		
HCM LOS			-	-

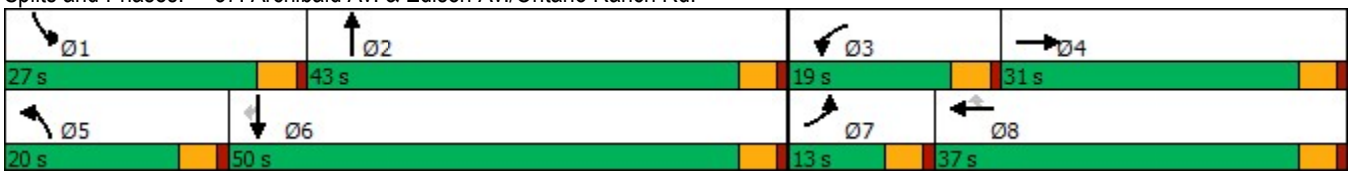
Minor Lane/Major Mvmt	NBLn1	EBL	EBT	EBR	WBL	WBT	WBR	SBLn1
Capacity (veh/h)	-	231	-	-	~ 114	-	-	-
HCM Lane V/C Ratio	-	0.056	-	-	1.945	-	-	-
HCM Control Delay (s)	-	21.5	0	-	$ 519.1	0	-	-
HCM Lane LOS	-	C	A	-	F	A	-	-
HCM 95th %tile Q(veh)	-	0.2	-	-	18.1	-	-	-

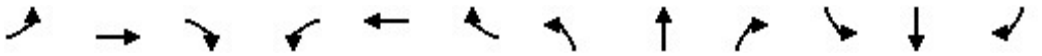
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	367	1920	828	575	1379	157	490	1261	669	236	1060	271
Future Volume (vph)	367	1920	828	575	1379	157	490	1261	669	236	1060	271
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	22.5
Total Split (s)	13.0	31.0		19.0	37.0	37.0	20.0	43.0		27.0	50.0	50.0
Total Split (%)	10.8%	25.8%		15.8%	30.8%	30.8%	16.7%	35.8%		22.5%	41.7%	41.7%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	Min
Act Effct Green (s)	8.5	26.5	118.4	14.5	32.5	32.5	15.5	38.5	118.4	20.9	43.9	43.9
Actuated g/C Ratio	0.07	0.22	1.00	0.12	0.27	0.27	0.13	0.33	1.00	0.18	0.37	0.37
v/c Ratio	1.77	2.51	0.57	1.63	2.94	0.32	2.45	1.13	0.46	0.87	0.84	0.44
Control Delay	397.8	704.3	1.5	327.7	897.7	10.6	688.7	108.6	1.0	76.8	40.6	16.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	397.8	704.3	1.5	327.7	897.7	10.6	688.7	108.6	1.0	76.8	40.6	16.2
LOS	F	F	A	F	F	B	F	F	A	E	D	B
Approach Delay		481.3			676.6			196.4			41.9	
Approach LOS		F			F			F			D	

Intersection Summary		
Cycle Length: 120		
Actuated Cycle Length: 118.4		
Natural Cycle: 120		
Control Type: Actuated-Uncoordinated		
Maximum v/c Ratio: 2.94		
Intersection Signal Delay: 376.5	Intersection LOS: F	
Intersection Capacity Utilization 165.3%	ICU Level of Service H	
Analysis Period (min) 15		

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	367	1920	828	575	1379	157	490	1261	669	236	1060	271
Future Volume (veh/h)	367	1920	828	575	1379	157	490	1261	669	236	1060	271
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	386	2021	0	605	1452	123	516	1327	0	248	1116	266
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	221	813		377	499	422	214	1181		274	1314	557
Arrive On Green	0.07	0.23	0.00	0.12	0.28	0.28	0.13	0.33	0.00	0.17	0.36	0.36
Sat Flow, veh/h	3048	3600	1525	3048	1800	1524	1619	3600	1525	1619	3600	1525
Grp Volume(v), veh/h	386	2021	0	605	1452	123	516	1327	0	248	1116	266
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1800	1524	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	8.5	26.5	0.0	14.5	32.5	7.4	15.5	38.5	0.0	17.6	33.5	15.7
Cycle Q Clear(g_c), s	8.5	26.5	0.0	14.5	32.5	7.4	15.5	38.5	0.0	17.6	33.5	15.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	221	813		377	499	422	214	1181		274	1314	557
V/C Ratio(X)	1.75	2.49		1.61	2.91	0.29	2.41	1.12		0.91	0.85	0.48
Avail Cap(c_a), veh/h	221	813		377	499	422	214	1181		311	1396	592
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.4	45.4	0.0	51.4	42.4	33.4	50.9	39.4	0.0	47.8	34.3	28.7
Incr Delay (d2), s/veh	354.7	672.1	0.0	284.9	865.8	0.4	649.6	67.0	0.0	26.7	4.9	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.0	87.2	0.0	20.2	133.6	2.7	44.6	26.7	0.0	8.8	14.4	5.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	409.1	717.5	0.0	336.3	908.2	33.7	700.5	106.4	0.0	74.6	39.2	29.3
LnGrp LOS	F	F		F	F	C	F	F		E	D	C
Approach Vol, veh/h		2407	A		2180			1843	A		1630	
Approach Delay, s/veh		668.0			700.2			272.7			43.0	
Approach LOS		F			F			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	24.3	43.0	19.0	31.0	20.0	47.3	13.0	37.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	22.5	38.5	14.5	26.5	15.5	45.5	8.5	32.5
Max Q Clear Time (g_c+I1), s	19.6	40.5	16.5	28.5	17.5	35.5	10.5	34.5
Green Ext Time (p_c), s	0.2	0.0	0.0	0.0	0.0	5.4	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	459.9
HCM 6th LOS	F

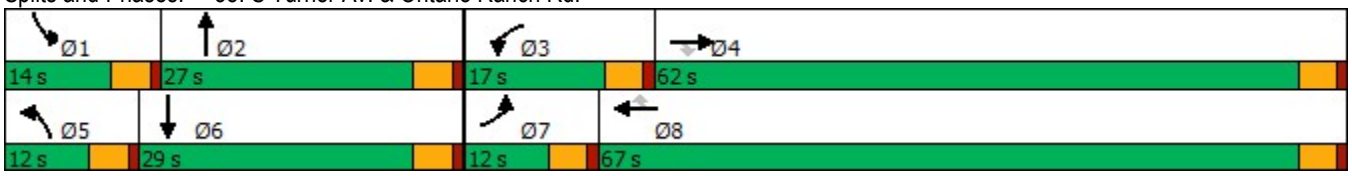
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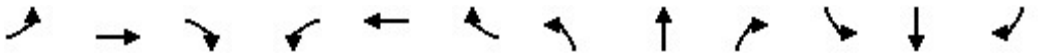
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	163	2444	53	66	2145	153	19	21	160	46
Future Volume (vph)	163	2444	53	66	2145	153	19	21	160	46
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	12.0	62.0	62.0	17.0	67.0	67.0	12.0	27.0	14.0	29.0
Total Split (%)	10.0%	51.7%	51.7%	14.2%	55.8%	55.8%	10.0%	22.5%	11.7%	24.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	7.5	63.0	63.0	9.3	62.6	62.6	6.5	8.9	9.5	18.4
Actuated g/C Ratio	0.07	0.59	0.59	0.09	0.59	0.59	0.06	0.08	0.09	0.17
v/c Ratio	1.38	1.23	0.06	0.45	1.09	0.16	0.18	0.33	1.07	0.38
Control Delay	250.9	132.3	0.1	55.9	71.4	3.4	52.8	27.7	138.6	25.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	250.9	132.3	0.1	55.9	71.4	3.4	52.8	27.7	138.6	25.4
LOS	F	F	A	E	E	A	D	C	F	C
Approach Delay		136.9			66.5			34.2		89.2
Approach LOS		F			E			C		F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 106.6	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.38	
Intersection Signal Delay: 102.1	Intersection LOS: F
Intersection Capacity Utilization 98.8%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	163	2444	53	66	2145	153	19	21	33	160	46	78
Future Volume (veh/h)	163	2444	53	66	2145	153	19	21	33	160	46	78
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	175	2628	52	71	2306	162	20	23	23	172	49	82
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	132	2281	1017	92	2201	982	38	43	43	168	77	129
Arrive On Green	0.07	0.63	0.63	0.05	0.61	0.61	0.02	0.05	0.05	0.09	0.12	0.12
Sat Flow, veh/h	1810	3610	1610	1810	3610	1610	1810	872	872	1810	639	1069
Grp Volume(v), veh/h	175	2628	52	71	2306	162	20	0	46	172	0	131
Grp Sat Flow(s),veh/h/ln	1810	1805	1610	1810	1805	1610	1810	0	1743	1810	0	1708
Q Serve(g_s), s	7.5	64.8	1.3	4.0	62.5	4.5	1.1	0.0	2.6	9.5	0.0	7.5
Cycle Q Clear(g_c), s	7.5	64.8	1.3	4.0	62.5	4.5	1.1	0.0	2.6	9.5	0.0	7.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		0.63
Lane Grp Cap(c), veh/h	132	2281	1017	92	2201	982	38	0	85	168	0	205
V/C Ratio(X)	1.32	1.15	0.05	0.77	1.05	0.17	0.52	0.00	0.54	1.03	0.00	0.64
Avail Cap(c_a), veh/h	132	2281	1017	221	2201	982	132	0	383	168	0	408
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	47.5	18.9	7.2	48.0	20.0	8.7	49.7	0.0	47.6	46.5	0.0	43.0
Incr Delay (d2), s/veh	187.8	74.0	0.0	12.5	33.1	0.1	10.6	0.0	5.3	76.4	0.0	3.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.2	44.9	0.4	2.1	31.4	1.4	0.6	0.0	1.2	7.7	0.0	3.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	235.3	92.8	7.2	60.5	53.1	8.8	60.2	0.0	52.9	122.9	0.0	46.2
LnGrp LOS	F	F	A	E	F	A	E	A	D	F	A	D
Approach Vol, veh/h		2855			2539			66			303	
Approach Delay, s/veh		100.0			50.5			55.1			89.7	
Approach LOS		F			D			E			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	14.0	9.5	9.7	69.3	6.7	16.8	12.0	67.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	9.5	22.5	12.5	57.5	7.5	24.5	7.5	62.5
Max Q Clear Time (g_c+I1), s	11.5	4.6	6.0	66.8	3.1	9.5	9.5	64.5
Green Ext Time (p_c), s	0.0	0.1	0.1	0.0	0.0	0.5	0.0	0.0

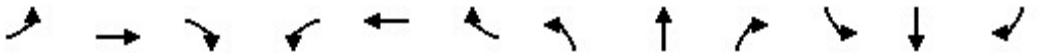
Intersection Summary	
HCM 6th Ctrl Delay	77.1
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	462	1995	91	268	1975	277	85	407	116	257	441	180
Future Volume (vph)	462	1995	91	268	1975	277	85	407	116	257	441	180
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	27.0	33.0	33.0	22.0	28.0	28.0	11.0	32.0	32.0	33.0	54.0	54.0
Total Split (%)	22.5%	27.5%	27.5%	18.3%	23.3%	23.3%	9.2%	26.7%	26.7%	27.5%	45.0%	45.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	22.5	30.7	30.7	15.4	23.5	23.5	6.5	27.5	27.5	23.6	44.7	44.7
Actuated g/C Ratio	0.20	0.27	0.27	0.13	0.20	0.20	0.06	0.24	0.24	0.20	0.39	0.39
v/c Ratio	1.58	1.64	0.19	0.73	1.68	0.56	1.00	1.02	0.25	0.83	0.68	0.28
Control Delay	307.3	320.9	3.2	60.0	340.4	9.7	151.0	92.9	2.8	65.5	34.9	4.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	307.3	320.9	3.2	60.0	340.4	9.7	151.0	92.9	2.8	65.5	34.9	4.2
LOS	F	F	A	E	F	A	F	F	A	E	C	A
Approach Delay		307.0			274.2			83.8			37.5	
Approach LOS		F			F			F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 115.3	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.68	
Intersection Signal Delay: 237.6	Intersection LOS: F
Intersection Capacity Utilization 112.3%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	462	1995	91	268	1975	277	85	407	116	257	441	180
Future Volume (veh/h)	462	1995	91	268	1975	277	85	407	116	257	441	180
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	497	2145	83	288	2124	230	91	438	91	276	474	170
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	323	1431	444	345	1290	312	93	439	372	305	675	570
Arrive On Green	0.20	0.29	0.29	0.12	0.21	0.21	0.06	0.24	0.24	0.19	0.37	0.37
Sat Flow, veh/h	1619	4914	1525	2956	6192	1496	1619	1800	1524	1619	1800	1519
Grp Volume(v), veh/h	497	2145	83	288	2124	230	91	438	91	276	474	170
Grp Sat Flow(s),veh/h/ln	1619	1638	1525	1478	1548	1496	1619	1800	1524	1619	1800	1519
Q Serve(g_s), s	22.5	32.8	4.6	10.8	23.5	16.2	6.3	27.4	5.4	18.8	25.2	8.9
Cycle Q Clear(g_c), s	22.5	32.8	4.6	10.8	23.5	16.2	6.3	27.4	5.4	18.8	25.2	8.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	323	1431	444	345	1290	312	93	439	372	305	675	570
V/C Ratio(X)	1.54	1.50	0.19	0.84	1.65	0.74	0.98	1.00	0.24	0.90	0.70	0.30
Avail Cap(c_a), veh/h	323	1431	444	459	1290	312	93	439	372	409	790	667
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.1	40.0	30.0	48.7	44.6	41.8	53.1	42.6	34.3	44.7	29.9	24.8
Incr Delay (d2), s/veh	257.3	228.1	0.2	9.7	294.3	8.9	84.8	42.4	0.3	18.9	2.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	31.7	42.6	1.6	4.2	34.8	6.4	4.7	16.8	1.9	8.9	10.7	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	302.5	268.0	30.2	58.5	338.9	50.6	137.8	85.0	34.6	63.6	32.2	25.1
LnGrp LOS	F	F	C	E	F	D	F	F	C	E	C	C
Approach Vol, veh/h		2725			2642			620			920	
Approach Delay, s/veh		267.1			283.2			85.3			40.3	
Approach LOS		F			F			F			D	

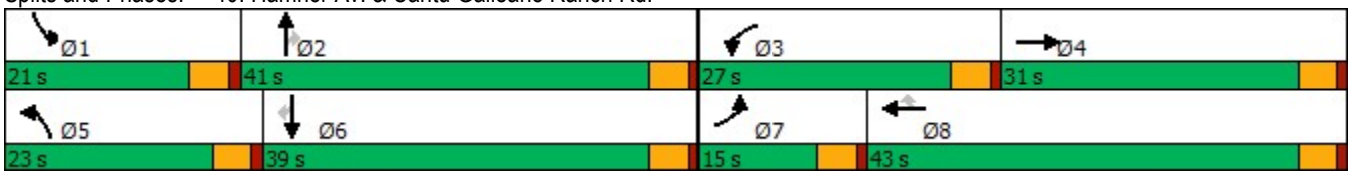
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	25.8	32.0	17.7	37.3	11.0	46.8	27.0	28.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	28.5	27.5	17.5	28.5	6.5	49.5	22.5	23.5
Max Q Clear Time (g_c+I1), s	20.8	29.4	12.8	34.8	8.3	27.2	24.5	25.5
Green Ext Time (p_c), s	0.5	0.0	0.4	0.0	0.0	3.2	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	226.7
HCM 6th LOS	F

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	921	1725	451	1838	354	376	439	356	641	836	778
Future Volume (vph)	921	1725	451	1838	354	376	439	356	641	836	778
Turn Type	Prot	NA	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4	3	8		5	2		1	6	
Permitted Phases					8			2			6
Detector Phase	7	4	3	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	15.0	31.0	27.0	43.0	43.0	23.0	41.0	41.0	21.0	39.0	39.0
Total Split (%)	12.5%	25.8%	22.5%	35.8%	35.8%	19.2%	34.2%	34.2%	17.5%	32.5%	32.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	10.5	28.8	20.2	38.5	38.5	17.1	35.2	35.2	16.5	34.5	34.5
Actuated g/C Ratio	0.09	0.24	0.17	0.32	0.32	0.14	0.30	0.30	0.14	0.29	0.29
v/c Ratio	3.13	1.43	0.80	1.65	0.58	0.78	0.30	0.53	1.39	0.84	1.34
Control Delay	985.5	229.0	57.9	326.3	21.0	60.7	32.8	9.0	225.2	48.1	193.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	985.5	229.0	57.9	326.3	21.0	60.7	32.8	9.0	225.2	48.1	193.3
LOS	F	F	E	F	C	E	C	A	F	D	F
Approach Delay		457.1		239.6			34.5			148.5	
Approach LOS		F		F			C			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.7	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 3.13	
Intersection Signal Delay: 263.5	Intersection LOS: F
Intersection Capacity Utilization 125.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	921	1725	408	451	1838	354	376	439	356	641	836	778
Future Volume (veh/h)	921	1725	408	451	1838	354	376	439	356	641	836	778
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	969	1816	372	475	1935	307	396	462	291	675	880	778
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	315	1442	295	548	1189	530	463	1482	460	495	1065	475
Arrive On Green	0.09	0.26	0.26	0.16	0.33	0.33	0.13	0.29	0.29	0.14	0.30	0.30
Sat Flow, veh/h	3510	5479	1121	3510	3610	1610	3510	5187	1610	3510	3610	1610
Grp Volume(v), veh/h	969	1624	564	475	1935	307	396	462	291	675	880	778
Grp Sat Flow(s),veh/h/ln	1755	1634	1698	1755	1805	1610	1755	1729	1610	1755	1805	1610
Q Serve(g_s), s	10.5	30.8	30.8	15.4	38.5	18.5	12.9	8.2	18.4	16.5	26.6	34.5
Cycle Q Clear(g_c), s	10.5	30.8	30.8	15.4	38.5	18.5	12.9	8.2	18.4	16.5	26.6	34.5
Prop In Lane	1.00		0.66	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	315	1290	447	548	1189	530	463	1482	460	495	1065	475
V/C Ratio(X)	3.07	1.26	1.26	0.87	1.63	0.58	0.86	0.31	0.63	1.36	0.83	1.64
Avail Cap(c_a), veh/h	315	1290	447	676	1189	530	556	1620	503	495	1065	475
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	53.2	43.1	43.1	48.2	39.2	32.5	49.7	32.7	36.4	50.2	38.4	41.2
Incr Delay (d2), s/veh	941.3	123.1	134.6	9.9	286.3	1.6	10.9	0.1	2.3	175.7	5.5	296.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	45.6	26.3	28.8	7.2	63.0	7.0	6.1	3.3	7.1	19.0	11.9	51.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	994.5	166.2	177.7	58.0	325.5	34.1	60.6	32.9	38.7	225.9	43.9	337.4
LnGrp LOS	F	F	F	E	F	C	E	C	D	F	D	F
Approach Vol, veh/h		3157			2717			1149			2333	
Approach Delay, s/veh		422.5			245.8			43.9			194.4	
Approach LOS		F			F			D			F	

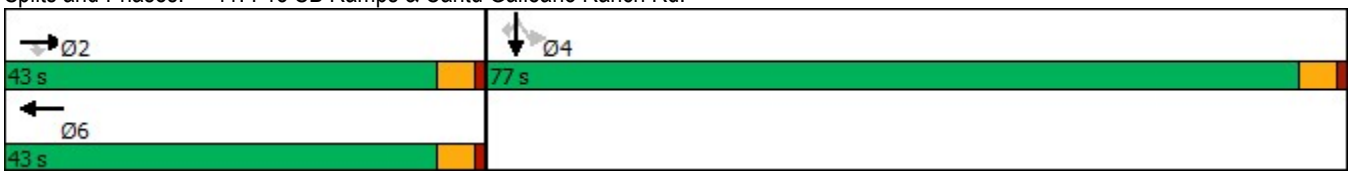
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.0	37.9	22.7	35.3	19.9	39.0	15.0	43.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	16.5	36.5	22.5	26.5	18.5	34.5	10.5	38.5
Max Q Clear Time (g_c+I1), s	18.5	20.4	17.4	32.8	14.9	36.5	12.5	40.5
Green Ext Time (p_c), s	0.0	3.4	0.8	0.0	0.5	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	267.8
HCM 6th LOS	F

Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Configurations							
Traffic Volume (vph)	2197	436	1282	580	365	1	1699
Future Volume (vph)	2197	436	1282	580	365	1	1699
Turn Type	NA	Perm	NA	Free	Perm	NA	Perm
Protected Phases	2		6			4	
Permitted Phases		2		Free	4		4
Detector Phase	2	2	6		4	4	4
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5		22.5	22.5	22.5
Total Split (s)	43.0	43.0	43.0		77.0	77.0	77.0
Total Split (%)	35.8%	35.8%	35.8%		64.2%	64.2%	64.2%
Yellow Time (s)	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag							
Lead-Lag Optimize?							
Recall Mode	Min	Min	Min		None	None	None
Act Effct Green (s)	38.5	38.5	38.5	120.0	72.5	72.5	72.5
Actuated g/C Ratio	0.32	0.32	0.32	1.00	0.60	0.60	0.60
v/c Ratio	1.40	0.67	1.18	0.22	0.34	1.04	0.99
Control Delay	218.6	19.9	126.3	0.2	12.9	64.4	50.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	218.6	19.9	126.3	0.2	12.9	64.4	50.9
LOS	F	B	F	A	B	E	D
Approach Delay	185.7		87.0			50.6	
Approach LOS	F		F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.40	
Intersection Signal Delay: 115.2	Intersection LOS: F
Intersection Capacity Utilization 113.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 41: I-15 SB Ramps & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations		↑↑↑	↱		↑↑	↱↱				↰	✣	↱
Traffic Volume (veh/h)	0	2197	436	0	1282	580	0	0	0	365	1	1699
Future Volume (veh/h)	0	2197	436	0	1282	580	0	0	0	365	1	1699
Initial Q (Qb), veh	0	0	0	0	0	0				0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00				1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Work Zone On Approach		No			No						No	
Adj Sat Flow, veh/h/ln	0	1900	1900	0	1900	1900				1900	1900	1900
Adj Flow Rate, veh/h	0	2337	0	0	1364	0				259	0	1361
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94				0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0				0	0	0
Cap, veh/h	0	2148		0	1495					885	0	1575
Arrive On Green	0.00	0.41	0.00	0.00	0.41	0.00				0.49	0.00	0.49
Sat Flow, veh/h	0	5358	1610	0	3705	2834				1810	0	3220
Grp Volume(v), veh/h	0	2337	0	0	1364	0				259	0	1361
Grp Sat Flow(s),veh/h/ln	0	1729	1610	0	1805	1417				1810	0	1610
Q Serve(g_s), s	0.0	38.5	0.0	0.0	33.1	0.0				7.9	0.0	34.8
Cycle Q Clear(g_c), s	0.0	38.5	0.0	0.0	33.1	0.0				7.9	0.0	34.8
Prop In Lane	0.00		1.00	0.00		1.00				1.00		1.00
Lane Grp Cap(c), veh/h	0	2148		0	1495					885	0	1575
V/C Ratio(X)	0.00	1.09		0.00	0.91					0.29	0.00	0.86
Avail Cap(c_a), veh/h	0	2148		0	1495					1411	0	2512
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00				1.00	1.00	1.00
Upstream Filter(I)	0.00	1.00	0.00	0.00	1.00	0.00				1.00	0.00	1.00
Uniform Delay (d), s/veh	0.0	27.2	0.0	0.0	25.6	0.0				14.2	0.0	21.0
Incr Delay (d2), s/veh	0.0	48.1	0.0	0.0	8.8	0.0				0.2	0.0	2.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0				0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.0	23.1	0.0	0.0	14.0	0.0				2.9	0.0	11.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	0.0	75.3	0.0	0.0	34.5	0.0				14.3	0.0	23.0
LnGrp LOS	A	F		A	C					B	A	C
Approach Vol, veh/h		2337	A		1364	A					1620	
Approach Delay, s/veh		75.3			34.5						21.6	
Approach LOS		E			C						C	

Timer - Assigned Phs	2	4	6
Phs Duration (G+Y+Rc), s	43.0	50.0	43.0
Change Period (Y+Rc), s	4.5	4.5	4.5
Max Green Setting (Gmax), s	38.5	72.5	38.5
Max Q Clear Time (g_c+I1), s	40.5	36.8	35.1
Green Ext Time (p_c), s	0.0	8.7	2.4

Intersection Summary	
HCM 6th Ctrl Delay	48.5
HCM 6th LOS	D

Notes

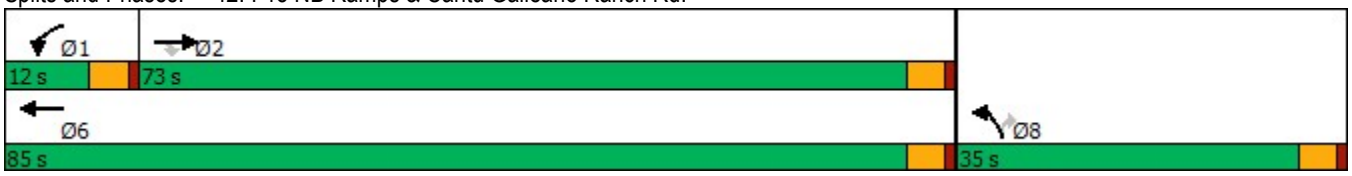
User approved volume balancing among the lanes for turning movement.

Unsignalized Delay for [EBR, WBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (vph)	920	1643	265	766	1065	186
Future Volume (vph)	920	1643	265	766	1065	186
Turn Type	NA	Perm	Prot	NA	Prot	Perm
Protected Phases	2		1	6	8	
Permitted Phases		2				8
Detector Phase	2	2	1	6	8	8
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	9.5	22.5	22.5	22.5
Total Split (s)	73.0	73.0	12.0	85.0	35.0	35.0
Total Split (%)	60.8%	60.8%	10.0%	70.8%	29.2%	29.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lag	Lag	Lead			
Lead-Lag Optimize?	Yes	Yes	Yes			
Recall Mode	Min	Min	None	Min	None	None
Act Effct Green (s)	68.5	68.5	7.5	80.5	30.5	30.5
Actuated g/C Ratio	0.57	0.57	0.06	0.67	0.25	0.25
v/c Ratio	0.29	1.32	1.23	0.21	1.23	0.34
Control Delay	13.6	165.0	181.2	7.7	151.2	11.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	13.6	165.0	181.2	7.7	151.2	11.2
LOS	B	F	F	A	F	B
Approach Delay	110.6			52.3	132.4	
Approach LOS	F			D	F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.32	
Intersection Signal Delay: 103.8	Intersection LOS: F
Intersection Capacity Utilization 116.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 42: I-15 NB Ramps & Cantu Galleano Ranch Rd.





Movement	EBT	EBR	WBL	WBT	NBL	NBR
Lane Configurations						
Traffic Volume (veh/h)	920	1643	265	766	1065	186
Future Volume (veh/h)	920	1643	265	766	1065	186
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)		1.00	1.00		1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach	No			No	No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	958	878	276	798	1109	100
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	3190	901	232	3775	944	420
Arrive On Green	0.81	0.81	0.09	0.95	0.38	0.38
Sat Flow, veh/h	5700	1610	3619	5700	3619	1610
Grp Volume(v), veh/h	958	878	276	798	1109	100
Grp Sat Flow(s),veh/h/ln	1900	1610	1810	1900	1810	1610
Q Serve(g_s), s	5.0	57.6	7.5	0.9	30.5	5.0
Cycle Q Clear(g_c), s	5.0	57.6	7.5	0.9	30.5	5.0
Prop In Lane		1.00	1.00		1.00	1.00
Lane Grp Cap(c), veh/h	3190	901	232	3775	944	420
V/C Ratio(X)	0.30	0.97	1.19	0.21	1.18	0.24
Avail Cap(c_a), veh/h	3338	943	232	3923	944	420
HCM Platoon Ratio	1.44	1.44	1.44	1.44	1.44	1.44
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	5.5	10.6	53.1	0.9	36.5	28.6
Incr Delay (d2), s/veh	0.1	22.8	119.8	0.0	90.0	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	10.9	7.0	0.3	23.3	1.9
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	5.5	33.3	172.9	1.0	126.5	28.8
LnGrp LOS	A	C	F	A	F	C
Approach Vol, veh/h	1836			1074	1209	
Approach Delay, s/veh	18.8			45.2	118.5	
Approach LOS	B			D	F	

Timer - Assigned Phs	1	2				6	8
Phs Duration (G+Y+Rc), s	12.0	70.0				82.0	35.0
Change Period (Y+Rc), s	4.5	4.5				4.5	4.5
Max Green Setting (Gmax), s	7.5	68.5				80.5	30.5
Max Q Clear Time (g_c+I1), s	9.5	59.6				2.9	32.5
Green Ext Time (p_c), s	0.0	5.8				5.5	0.0

Intersection Summary	
HCM 6th Ctrl Delay	54.9
HCM 6th LOS	D

Notes

User approved volume balancing among the lanes for turning movement.

APPENDIX 7.3: HORIZON YEAR (2050) WITHOUT PROJECT CONDITIONS TRAFFIC SIGNAL WARRANT OPERATIONS ANALYSIS WORKSHEETS

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Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM		TRAFFIC CONDITIONS	HY (2050) NP
				CALC	JB	DATE 01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE 01/11/23
Major Street:	Edison Av.				Critical Approach Speed (Major)	45 mph
Minor Street:	Vineyard Av.				Critical Approach Speed (Minor)	25 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **55,962** vpd Minor Street Future ADT = **1,807** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied	Urban	Rural	Urban	Rural
XX					
Number of lanes for moving traffic on each approach					
Major Street	Minor Street				
1 **55,962**	1 **1,807**	8,000	5,600 *	2,400	1,680 *
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied	Urban	Rural	Urban	Rural
XX					
Number of lanes for moving traffic on each approach					
Major Street	Minor Street				
1 **55,962**	1 **1,807**	12,000	8,400 *	1,200	850 *
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied				
XX		2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more	A 100% B 100%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	HY (2050) NP
				CALC JB	DATE 01/11/23
Jurisdiction: City of Ontario				CHK JB	DATE 01/11/23
Major Street: Edison Av.				Critical Approach Speed (Major)	45 mph
Minor Street: Hellman Av.				Critical Approach Speed (Minor)	45 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **60,150** vpd Minor Street Future ADT = **7,198** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √

or

In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches)		Minimum Requirements EADT: Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
CONDITION A - Minimum Vehicular Volume				
Satisfied: XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **60,150** / 1 **7,198**	8,000	5,600 *	2,400	1,680 *
2 + / 1	9,600	6,720	2,400	1,680
2 + / 2 +	9,600	6,720	3,200	2,240
1 / 2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic				
Satisfied: XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **60,150** / 1 **7,198**	12,000	8,400 *	1,200	850 *
2 + / 1	14,400	10,080	1,200	850
2 + / 2 +	14,400	10,080	1,600	1,120
1 / 2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied: XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 100% B: 100%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

APPENDIX 7.4: HORIZON YEAR (2050) WITH PROJECT CONDITIONS TRAFFIC SIGNAL WARRANT OPERATIONS ANALYSIS WORKSHEETS

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Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM		TRAFFIC CONDITIONS		HY (2050) WP
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Schaefer Av.				Critical Approach Speed (Major)		45 mph
Minor Street:	Driveway 6				Critical Approach Speed (Minor)		25 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **6,923** vpd Minor Street Future ADT = **130** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... [√]

or

In built up area of isolated community of < 10,000 population ..... [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **6,923**	1 **130**	8,000	5,600 *	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **6,923**	1 **130**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied				
	XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more	A / B				
	8% / 15%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	HY (2050) WP
				CALC JB	DATE 01/11/23
				CHK JB	DATE 01/11/23

Jurisdiction: **City of Ontario**
Major Street: **Edison Av.**
Minor Street: **Driveway 9**
Critical Approach Speed (Major) 45 mph
Critical Approach Speed (Minor) 25 mph

Major Street Approach Lanes = **1** lane
Minor Street Approach Lanes **1** lane

Major Street Future ADT = **13,413** vpd
Minor Street Future ADT = **3,098** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √
or
In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied	Urban	Rural	Urban	Rural
XX					
Number of lanes for moving traffic on each approach					
Major Street	Minor Street				
1 **13,413**	*1* **3,098**	8,000	5,600 *	2,400	1,680 *
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied	Urban	Rural	Urban	Rural
XX					
Number of lanes for moving traffic on each approach					
Major Street	Minor Street				
1 **13,413**	*1* **3,098**	12,000	8,400 *	1,200	850 *
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied				
XX		2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more	A / B				
	100% / 100%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM		TRAFFIC CONDITIONS		HY (2050) WP
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Schaefer Av.				Critical Approach Speed (Major)		45 mph
Minor Street:	Sultana Av.				Critical Approach Speed (Minor)		45 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **6,985** vpd Minor Street Future ADT = **159** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... [√]

or

In built up area of isolated community of < 10,000 population ..... [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **6,985**	*1* **159**	8,000	5,600 *	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **6,985**	*1* **159**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more	A 9% B 19%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM		TRAFFIC CONDITIONS		HY (2050) WP
				CALC	JB	DATE	01/11/23
Jurisdiction:	City of Ontario			CHK	JB	DATE	01/11/23
Major Street:	Sultana Av.				Critical Approach Speed (Major)		45 mph
Minor Street:	Driveway 11				Critical Approach Speed (Minor)		25 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **360** vpd Minor Street Future ADT = **191** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... [√]

or

In built up area of isolated community of < 10,000 population ..... [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **360**	1 **191**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **360**	1 **191**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more	A 6% B 4%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	HY (2050) WP
				CALC JB	DATE 01/11/23
				CHK JB	DATE 01/11/23

Jurisdiction: **City of Ontario**
Major Street: **Sultana Av.**
Minor Street: **Driveway 12**
Critical Approach Speed (Major) 45 mph
Critical Approach Speed (Minor) 25 mph

Major Street Approach Lanes = **1** lane
Minor Street Approach Lanes **1** lane

Major Street Future ADT = **395** vpd
Minor Street Future ADT = **64** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √
or
In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT			
CONDITION A - Minimum Vehicular Volume	Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied / Not Satisfied: XX / XX	Urban	Rural	Urban	Rural
Number of lanes for moving traffic on each approach				
Major Street / Minor Street				
1 **395** / 1 **64**	8,000	5,600	2,400	1,680
2 + / 1	9,600	6,720	2,400	1,680
2 + / 2 +	9,600	6,720	3,200	2,240
1 / 2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic	Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied / Not Satisfied: XX	Urban	Rural	Urban	Rural
Number of lanes for moving traffic on each approach				
Major Street / Minor Street				
1 **395** / 1 **64**	12,000	8,400	1,200	850
2 + / 1	14,400	10,080	1,200	850
2 + / 2 +	14,400	10,080	1,600	1,120
1 / 2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied / Not Satisfied: XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 4% B: 5%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS		HY (2050) WP
				CALC JB	DATE	01/11/23
Jurisdiction: City of Ontario				CHK JB	DATE	01/11/23
Major Street: Sultana Av.				Critical Approach Speed (Major)		45 mph
Minor Street: Driveway 13				Critical Approach Speed (Minor)		25 mph

Major Street Approach Lanes = **1** lane Minor Street Approach Lanes **1** lane

Major Street Future ADT = **400** vpd Minor Street Future ADT = **64** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... [√]

or

In built up area of isolated community of < 10,000 population ..... [ ]

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT: Vehicles Per Day on Major Street (Total of Both Approaches)		Minimum Requirements EADT: Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
CONDITION A - Minimum Vehicular Volume				
Satisfied / Not Satisfied: XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **400** / *1* **64**	8,000	5,600	2,400	1,680
2 + / *1*	9,600	6,720	2,400	1,680
2 + / *2* +	9,600	6,720	3,200	2,240
1 / *2* +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic				
Satisfied / Not Satisfied: XX				
Number of lanes for moving traffic on each approach				
Major Street / Minor Street	Urban	Rural	Urban	Rural
1 **400** / *1* **64**	12,000	8,400	1,200	850
2 + / *1*	14,400	10,080	1,200	850
2 + / *2* +	14,400	10,080	1,600	1,120
1 / *2* +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied / Not Satisfied: XX				
No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 4% B: 5%	2 CONDITIONS 80%		2 CONDITIONS 80%	

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	HY (2050) WP
				CALC JB	DATE 01/11/23
				CHK JB	DATE 01/11/23

Jurisdiction: **City of Ontario**
Major Street: **Sultana Av.**
Minor Street: **Driveway 14**
Critical Approach Speed (Major) 45 mph
Critical Approach Speed (Minor) 25 mph

Major Street Approach Lanes = **1** lane
Minor Street Approach Lanes **1** lane

Major Street Future ADT = **466** vpd
Minor Street Future ADT = **58** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √
or
In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN	RURAL	Minimum Requirements EADT			
	XX				
CONDITION A - Minimum Vehicular Volume		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **466**	1 **58**	8,000	5,600	2,400	1,680
2 +	1	9,600	6,720	2,400	1,680
2 +	2 +	9,600	6,720	3,200	2,240
1	2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied	Not Satisfied				
	XX				
Number of lanes for moving traffic on each approach					
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **466**	1 **58**	12,000	8,400	1,200	850
2 +	1	14,400	10,080	1,200	850
2 +	2 +	14,400	10,080	1,600	1,120
1	2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B					
Satisfied	Not Satisfied				
	XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more	**A** 3% **B** 6%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	HY (2050) WP
				CALC JB	DATE 01/11/23
				CHK JB	DATE 01/11/23

Jurisdiction: **City of Ontario**
Major Street: **Sultana Av.**
Minor Street: **Driveway 15**
Critical Approach Speed (Major) 45 mph
Critical Approach Speed (Minor) 25 mph

Major Street Approach Lanes = **1** lane
Minor Street Approach Lanes **1** lane

Major Street Future ADT = **746** vpd
Minor Street Future ADT = **244** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √
or
In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL	Minimum Requirements EADT			
CONDITION A - Minimum Vehicular Volume	Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied / Not Satisfied: XX / XX	Urban	Rural	Urban	Rural
Number of lanes for moving traffic on each approach				
Major Street / Minor Street				
1 **746** / 1 **244**	8,000	5,600	2,400	1,680
2 + / 1	9,600	6,720	2,400	1,680
2 + / 2 +	9,600	6,720	3,200	2,240
1 / 2 +	8,000	5,600	3,200	2,240
CONDITION B - Interruption of Continuous Traffic	Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Satisfied / Not Satisfied: XX	Urban	Rural	Urban	Rural
Number of lanes for moving traffic on each approach				
Major Street / Minor Street				
1 **746** / 1 **244**	12,000	8,400	1,200	850
2 + / 1	14,400	10,080	1,200	850
2 + / 2 +	14,400	10,080	1,600	1,120
1 / 2 +	12,000	8,400	1,600	1,120
Combination of CONDITIONS A + B				
Satisfied / Not Satisfied: XX	2 CONDITIONS 80%		2 CONDITIONS 80%	
No one condition satisfied, but following conditions fulfilled 80% of more ..... A: 13% B: 9%				

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	HY (2050) WP
				CALC JB	DATE 01/11/23
				CHK JB	DATE 01/11/23

Jurisdiction: **City of Ontario**
Major Street: **Sultana Av.**
Minor Street: **Driveway 16**
Critical Approach Speed (Major) 45 mph
Critical Approach Speed (Minor) 25 mph

Major Street Approach Lanes = **1** lane
Minor Street Approach Lanes **1** lane

Major Street Future ADT = **1,119** vpd
Minor Street Future ADT = **152** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √
or
In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach		Minimum Requirements EADT			
Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
		Urban	Rural	Urban	Rural
1 **1,119**	*1* **152**	8,000	5,600	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **1,119**	*1* **152**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more ..... **A** 9% **B** 13%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

Figure 4C-103 (CA). Traffic Signal Warrants Worksheet
(Average Traffic Estimate Form)

DIST	CO	RTE	PM	TRAFFIC CONDITIONS	HY (2050) WP
				CALC JB	DATE 01/11/23
				CHK JB	DATE 01/11/23

Jurisdiction: **City of Ontario**
Major Street: **Sultana Av.**
Minor Street: **Driveway 17**
Critical Approach Speed (Major) 45 mph
Critical Approach Speed (Minor) 25 mph

Major Street Approach Lanes = **1** lane
Minor Street Approach Lanes **1** lane

Major Street Future ADT = **1,574** vpd
Minor Street Future ADT = **304** vpd

Speed limit or critical speed on major street traffic > 64 km/h (40 mph); ..... √
or
In built up area of isolated community of < 10,000 population .....

RURAL (R)

(Based on Estimated Average Daily Traffic - See Note)

URBAN / RURAL: XX

CONDITION A - Minimum Vehicular Volume

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach		Minimum Requirements EADT			
Major Street	Minor Street	Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
		Urban	Rural	Urban	Rural
1 **1,574**	*1* **304**	8,000	5,600	2,400	1,680
2 +	*1*	9,600	6,720	2,400	1,680
2 +	*2* +	9,600	6,720	3,200	2,240
1	*2* +	8,000	5,600	3,200	2,240

CONDITION B - Interruption of Continuous Traffic

Satisfied / Not Satisfied: XX

Number of lanes for moving traffic on each approach		Vehicles Per Day on Major Street (Total of Both Approaches)		Vehicles Per Day on Higher-Volume Minor Street Approach (One Direction Only)	
Major Street	Minor Street	Urban	Rural	Urban	Rural
1 **1,574**	*1* **304**	12,000	8,400	1,200	850
2 +	*1*	14,400	10,080	1,200	850
2 +	*2* +	14,400	10,080	1,600	1,120
1	*2* +	12,000	8,400	1,600	1,120

Combination of CONDITIONS A + B

Satisfied / Not Satisfied: XX

No one condition satisfied, but following conditions fulfilled 80% of more .....

A	B
18%	19%

2 CONDITIONS 80%

2 CONDITIONS 80%

Note: To be used only for NEW INTERSECTIONS or other locations where it is not reasonable to count actual traffic volumes.

The satisfaction of a traffic signal warrant or warrants shall not in itself require the installation of a traffic control signal.

URBAN CROSSROADS

APPENDIX 7.5: HORIZON YEAR (2050) WITHOUT PROJECT CONDITIONS OFF-RAMP QUEUING ANALYSIS WORKSHEETS

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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	490	491	433	669	1786	1496	458
v/c Ratio	1.01	1.06	0.90	1.41	0.79	1.26	0.63
Control Delay	86.6	98.7	58.7	228.6	19.0	158.8	16.6
Queue Delay	22.8	16.8	0.0	0.0	23.1	0.0	0.0
Total Delay	109.5	115.5	58.7	228.6	42.0	158.8	16.6
Queue Length 50th (ft)	~406	~454	296	~717	370	~765	108
Queue Length 95th (ft)	#640	#690	#501	m#606	m310	#904	225
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	485	465	480	473	2271	1188	723
Starvation Cap Reductn	0	0	0	0	553	0	0
Spillback Cap Reductn	31	30	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	1.08	1.13	0.90	1.41	1.04	1.26	0.63

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	500	1179	1455	945	466	1564
v/c Ratio	1.00	2.40	1.27	1.05	0.96	0.70
Control Delay	83.2	655.7	161.8	60.3	62.4	18.4
Queue Delay	39.0	5.9	0.1	0.0	4.8	11.8
Total Delay	122.3	661.5	161.9	60.3	67.2	30.2
Queue Length 50th (ft)	407	~1566	~755	~465	389	351
Queue Length 95th (ft)	#646	#1842	#894	#719	m335	m303
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	500	492	1150	899	496	2241
Starvation Cap Reductn	0	0	0	0	16	676
Spillback Cap Reductn	228	213	31	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	1.84	4.23	1.30	1.05	0.97	1.00

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.

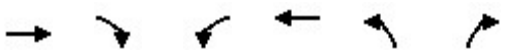


Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	1719	410	953	473	319	1017	1022
v/c Ratio	1.54	0.73	1.22	0.17	0.26	0.97	0.94
Control Delay	280.2	23.0	152.8	0.1	6.8	38.6	31.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	280.2	23.0	152.8	0.1	6.8	38.6	31.8
Queue Length 50th (ft)	~689	98	~483	0	82	702	628
Queue Length 95th (ft)	#786	222	#614	0	120	#1145	#1068
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	1117	562	778	2842	1238	1069	1112
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	1.54	0.73	1.22	0.17	0.26	0.95	0.92

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	588	1193	287	542	834	383
v/c Ratio	0.20	0.98	0.71	0.14	1.21	0.64
Control Delay	12.2	33.5	60.2	4.8	148.0	9.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	12.2	33.5	60.2	4.8	148.0	9.8
Queue Length 50th (ft)	75	506	111	39	~410	0
Queue Length 95th (ft)	95	#965	158	50	#538	101
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	3108	1239	444	3969	688	594
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.19	0.96	0.65	0.14	1.21	0.64

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	457	455	387	1020	1417	1745	543
v/c Ratio	0.96	0.99	0.82	2.23	0.61	1.37	0.71
Control Delay	74.7	83.8	50.1	583.1	13.8	202.1	19.9
Queue Delay	0.0	0.0	0.0	0.0	3.5	0.0	0.0
Total Delay	74.7	83.8	50.1	583.1	17.3	202.1	19.9
Queue Length 50th (ft)	366	383	255	~1274	311	~937	162
Queue Length 95th (ft)	#586	#626	#427	#1527	375	#1077	300
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	478	458	470	458	2331	1278	767
Starvation Cap Reductn	0	0	0	0	799	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.96	0.99	0.82	2.23	0.92	1.37	0.71

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	314	657	1829	779	426	1974
v/c Ratio	0.67	1.50	1.42	0.95	0.93	0.84
Control Delay	46.5	267.5	225.8	39.5	71.5	20.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	47.0
Total Delay	46.5	267.5	225.8	39.5	71.5	67.6
Queue Length 50th (ft)	228	~741	~1011	331	320	569
Queue Length 95th (ft)	337	#986	#1151	#617	#506	683
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	472	439	1286	821	478	2382
Starvation Cap Reductn	0	0	0	0	0	592
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.67	1.50	1.42	0.95	0.89	1.10

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	2283	426	1326	617	349	910	906
v/c Ratio	1.37	0.62	1.15	0.22	0.34	1.02	0.97
Control Delay	204.8	18.2	113.6	0.2	12.9	59.2	46.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	204.8	18.2	113.6	0.2	12.9	59.2	46.9
Queue Length 50th (ft)	~856	113	~633	0	132	~818	660
Queue Length 95th (ft)	#951	226	#772	0	193	#1096	#1004
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	1664	686	1158	2842	1036	894	932
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	1.37	0.62	1.15	0.22	0.34	1.02	0.97

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	951	1667	276	791	1097	175
v/c Ratio	0.30	1.34	0.72	0.20	1.82	0.49
Control Delay	11.8	177.6	62.7	4.4	404.6	19.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	11.8	177.6	62.7	4.4	404.6	19.1
Queue Length 50th (ft)	124	~1480	107	55	~669	35
Queue Length 95th (ft)	149	#1750	154	68	#803	112
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	3138	1240	408	3939	603	358
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.30	1.34	0.68	0.20	1.82	0.49

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

APPENDIX 7.6: HORIZON YEAR (2050) WITH PROJECT CONDITIONS OFF-RAMP QUEUING ANALYSIS WORKSHEETS

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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	509	509	433	715	1794	1505	458
v/c Ratio	1.05	1.10	0.90	1.51	0.79	1.27	0.63
Control Delay	96.5	111.2	58.7	269.7	19.5	161.9	16.7
Queue Delay	18.9	1.7	0.0	0.0	27.6	0.0	0.0
Total Delay	115.4	112.9	58.7	269.7	47.0	161.9	16.7
Queue Length 50th (ft)	~451	~489	296	~794	374	~772	109
Queue Length 95th (ft)	#675	#726	#501	m#653	m301	#912	227
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	485	464	480	473	2271	1188	722
Starvation Cap Reductn	0	0	0	0	565	0	0
Spillback Cap Reductn	30	29	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	1.12	1.17	0.90	1.51	1.05	1.27	0.63

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	500	1223	1507	975	466	1609
v/c Ratio	1.00	2.49	1.31	1.09	0.96	0.72
Control Delay	83.2	695.1	180.5	72.7	62.0	18.8
Queue Delay	40.1	6.8	0.2	0.0	4.8	18.8
Total Delay	123.4	702.0	180.7	72.7	66.8	37.6
Queue Length 50th (ft)	407	~1642	~800	~516	389	366
Queue Length 95th (ft)	#646	#1920	#938	#771	m330	m309
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	500	492	1150	898	496	2241
Starvation Cap Reductn	0	0	0	0	16	671
Spillback Cap Reductn	250	233	47	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	2.00	4.72	1.37	1.09	0.97	1.02

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	1758	443	1007	473	319	1042	1048
v/c Ratio	1.60	0.78	1.31	0.17	0.26	0.99	0.96
Control Delay	304.8	25.8	188.3	0.1	6.7	42.9	35.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	304.8	25.8	188.3	0.1	6.7	42.9	35.0
Queue Length 50th (ft)	~712	115	~528	0	82	761	680
Queue Length 95th (ft)	#809	#250	#662	0	120	#1192	#1114
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	1102	569	767	2842	1221	1054	1097
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	1.60	0.78	1.31	0.17	0.26	0.99	0.96

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	595	1222	287	551	864	394
v/c Ratio	0.20	1.00	0.72	0.14	1.29	0.66
Control Delay	12.0	37.7	61.5	4.8	181.6	10.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	12.0	37.7	61.5	4.8	181.6	10.1
Queue Length 50th (ft)	76	~589	111	39	~438	0
Queue Length 95th (ft)	97	#1012	158	51	#566	103
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	3022	1224	432	3859	668	597
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.20	1.00	0.66	0.14	1.29	0.66

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	WBL	WBT	WBR	NBL	NBT	SBT	SBR
Lane Group Flow (vph)	473	469	387	1063	1424	1752	543
v/c Ratio	0.99	1.02	0.83	2.32	0.61	1.37	0.71
Control Delay	82.2	91.0	50.4	624.3	13.8	204.4	20.0
Queue Delay	0.0	0.0	0.0	0.0	3.7	0.0	0.0
Total Delay	82.2	91.0	50.4	624.3	17.5	204.4	20.0
Queue Length 50th (ft)	384	~423	256	~1344	313	~944	162
Queue Length 95th (ft)	#614	#654	#428	#1598	378	#1083	301
Internal Link Dist (ft)		1414			410	1540	
Turn Bay Length (ft)	360		360	285			
Base Capacity (vph)	478	458	469	458	2331	1278	766
Starvation Cap Reductn	0	0	0	0	796	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.99	1.02	0.83	2.32	0.93	1.37	0.71

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBL	EBT	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	314	704	1881	810	426	2010
v/c Ratio	0.67	1.61	1.46	0.98	0.93	0.86
Control Delay	46.5	314.5	243.1	46.9	71.5	21.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	46.9
Total Delay	46.5	314.5	243.1	46.9	71.5	68.3
Queue Length 50th (ft)	228	~824	~1055	372	320	591
Queue Length 95th (ft)	337	#1074	#1195	#664	#506	712
Internal Link Dist (ft)		1308	1081			410
Turn Bay Length (ft)	900					
Base Capacity (vph)	472	438	1286	824	478	2382
Starvation Cap Reductn	0	0	0	0	0	577
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.67	1.61	1.46	0.98	0.89	1.11

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBT	WBR	SBL	SBT	SBR
Lane Group Flow (vph)	2337	464	1364	617	349	925	922
v/c Ratio	1.40	0.67	1.18	0.22	0.34	1.04	0.99
Control Delay	218.6	19.9	126.3	0.2	12.9	64.4	50.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	218.6	19.9	126.3	0.2	12.9	64.4	50.9
Queue Length 50th (ft)	~888	133	~665	0	132	~847	689
Queue Length 95th (ft)	#982	256	#804	0	193	#1124	#1033
Internal Link Dist (ft)	1972		847			2051	
Turn Bay Length (ft)				180			
Base Capacity (vph)	1664	696	1158	2842	1036	893	932
Starvation Cap Reductn	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	1.40	0.67	1.18	0.22	0.34	1.04	0.99

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.



Lane Group	EBT	EBR	WBL	WBT	NBL	NBR
Lane Group Flow (vph)	958	1711	276	798	1128	175
v/c Ratio	0.31	1.38	0.72	0.20	1.87	0.49
Control Delay	11.8	193.5	62.7	4.4	426.8	20.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	11.8	193.5	62.7	4.4	426.8	20.1
Queue Length 50th (ft)	125	~1552	107	56	~695	37
Queue Length 95th (ft)	150	#1822	154	69	#830	115
Internal Link Dist (ft)	847			2089	1664	
Turn Bay Length (ft)			255			
Base Capacity (vph)	3138	1240	408	3939	603	355
Starvation Cap Reductn	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0
Reduced v/c Ratio	0.31	1.38	0.68	0.20	1.87	0.49

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

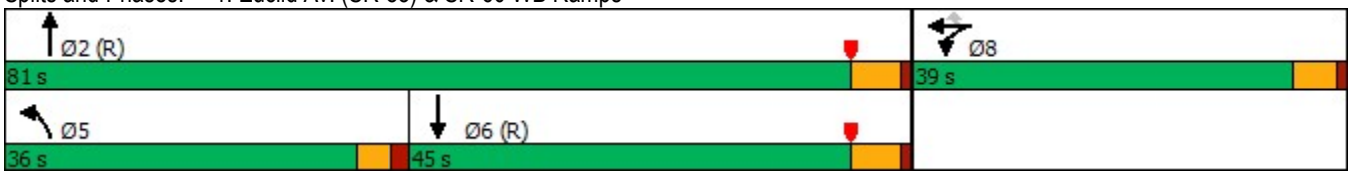
APPENDIX 7.7: HORIZON YEAR (2050) WITHOUT PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS WITH IMPROVEMENTS

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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT
Lane Configurations						
Traffic Volume (vph)	859	8	447	622	1661	1391
Future Volume (vph)	859	8	447	622	1661	1391
Turn Type	Split	NA	Perm	Prot	NA	NA
Protected Phases	8	8		5	2	6
Permitted Phases			8			
Detector Phase	8	8	8	5	2	6
Switch Phase						
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5
Total Split (s)	39.0	39.0	39.0	36.0	81.0	45.0
Total Split (%)	32.5%	32.5%	32.5%	30.0%	67.5%	37.5%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5
Lead/Lag				Lead		Lag
Lead-Lag Optimize?				Yes		Yes
Recall Mode	None	None	None	None	C-Min	C-Min
Act Effct Green (s)	33.7	33.7	33.7	26.4	75.8	44.9
Actuated g/C Ratio	0.28	0.28	0.28	0.22	0.63	0.37
v/c Ratio	0.97	0.97	0.91	0.84	0.50	0.93
Control Delay	75.8	75.7	59.9	63.1	10.8	44.3
Queue Delay	0.0	0.0	0.0	0.0	0.4	0.0
Total Delay	75.8	75.7	59.9	63.1	11.3	44.4
LOS	E	E	E	E	B	D
Approach Delay		70.9			25.4	44.4
Approach LOS		E			C	D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 90	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 42.8	Intersection LOS: D
Intersection Capacity Utilization 170.6%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	859	8	447	622	1661	0	0	1391	426
Future Volume (veh/h)	0	0	0	859	8	447	622	1661	0	0	1391	426
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				1024	0	210	669	1786	0	0	1496	291
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				1025	0	456	726	3586	0	0	1814	352
Arrive On Green				0.28	0.00	0.28	0.40	1.00	0.00	0.00	0.39	0.39
Sat Flow, veh/h				3619	0	1610	3619	5700	0	0	4639	899
Grp Volume(v), veh/h				1024	0	210	669	1786	0	0	1224	563
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1900	0	0	1900	1738
Q Serve(g_s), s				33.9	0.0	12.9	21.1	0.0	0.0	0.0	34.7	35.0
Cycle Q Clear(g_c), s				33.9	0.0	12.9	21.1	0.0	0.0	0.0	34.7	35.0
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.52
Lane Grp Cap(c), veh/h				1025	0	456	726	3586	0	0	1486	680
V/C Ratio(X)				1.00	0.00	0.46	0.92	0.50	0.00	0.00	0.82	0.83
Avail Cap(c_a), veh/h				1025	0	456	950	3586	0	0	1486	680
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.19	0.19	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				43.0	0.0	35.4	35.0	0.0	0.0	0.0	32.8	32.9
Incr Delay (d2), s/veh				27.7	0.0	0.3	2.4	0.1	0.0	0.0	5.3	11.1
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				18.4	0.0	4.9	7.3	0.0	0.0	0.0	16.4	16.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				70.7	0.0	35.7	37.4	0.1	0.0	0.0	38.1	44.0
LnGrp LOS				E	A	D	D	A	A	A	D	D
Approach Vol, veh/h					1234			2455			1787	
Approach Delay, s/veh					64.8			10.3			40.0	
Approach LOS					E			B			D	

Timer - Assigned Phs	2		5	6		8				
Phs Duration (G+Y+Rc), s	81.0		28.6	52.4		39.0				
Change Period (Y+Rc), s	5.5		4.5	5.5		5.0				
Max Green Setting (Gmax), s	75.5		31.5	39.5		34.0				
Max Q Clear Time (g_c+I1), s	2.0		23.1	37.0		35.9				
Green Ext Time (p_c), s	34.9		1.0	2.3		0.0				

Intersection Summary		
HCM 6th Ctrl Delay	32.2	
HCM 6th LOS	C	

Notes

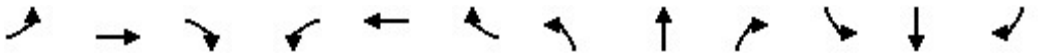
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Configurations							
Traffic Volume (vph)	539	0	1089	1411	917	452	1517
Future Volume (vph)	539	0	1089	1411	917	452	1517
Turn Type	Split	NA	Perm	NA	Perm	Prot	NA
Protected Phases	4	4		2		1	6
Permitted Phases			4		2		
Detector Phase	4	4	4	2	2	1	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	47.0	47.0	47.0	54.0	54.0	19.0	73.0
Total Split (%)	39.2%	39.2%	39.2%	45.0%	45.0%	15.8%	60.8%
Yellow Time (s)	4.0	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag				Lag	Lag	Lead	
Lead-Lag Optimize?				Yes	Yes	Yes	
Recall Mode	None	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	42.0	42.0	42.0	48.5	48.5	15.0	67.5
Actuated g/C Ratio	0.35	0.35	0.35	0.40	0.40	0.12	0.56
v/c Ratio	0.83	1.07	1.02	1.00	0.90	1.07	0.77
Control Delay	49.5	91.5	76.9	58.9	22.2	105.2	21.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	3.7
Total Delay	49.5	91.5	76.9	58.9	22.2	105.2	25.6
LOS	D	F	E	E	C	F	C
Approach Delay		73.9		44.5			43.9
Approach LOS		E		D			D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.07	
Intersection Signal Delay: 52.4	Intersection LOS: D
Intersection Capacity Utilization 163.1%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	539	0	1089	0	0	0	0	1411	917	452	1517	0
Future Volume (veh/h)	539	0	1089	0	0	0	0	1411	917	452	1517	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	753	0	396				0	1455	533	466	1564	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	979	0	436				0	1746	767	439	2317	0
Arrive On Green	0.27	0.00	0.27				0.00	0.48	0.48	0.25	1.00	0.00
Sat Flow, veh/h	3619	0	1610				0	3705	1586	3510	3705	0
Grp Volume(v), veh/h	753	0	396				0	1455	533	466	1564	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1586	1755	1805	0
Q Serve(g_s), s	23.0	0.0	28.5				0.0	41.8	31.4	15.0	0.0	0.0
Cycle Q Clear(g_c), s	23.0	0.0	28.5				0.0	41.8	31.4	15.0	0.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	979	0	436				0	1746	767	439	2317	0
V/C Ratio(X)	0.77	0.00	0.91				0.00	0.83	0.69	1.06	0.67	0.00
Avail Cap(c_a), veh/h	1267	0	564				0	1746	767	439	2317	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.41	0.41	0.28	0.28	0.00
Uniform Delay (d), s/veh	40.3	0.0	42.3				0.0	26.8	24.1	45.0	0.0	0.0
Incr Delay (d2), s/veh	1.5	0.0	14.0				0.0	2.1	2.2	41.2	0.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.1	0.0	12.6				0.0	17.4	11.6	7.9	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	41.8	0.0	56.3				0.0	28.9	26.3	86.2	0.5	0.0
LnGrp LOS	D	A	E				A	C	C	F	A	A
Approach Vol, veh/h		1149						1988			2030	
Approach Delay, s/veh		46.8						28.2			20.1	
Approach LOS		D						C			C	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	19.0	63.5		37.5		82.5
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	15.0	48.5		42.0		67.5
Max Q Clear Time (g_c+I1), s	17.0	43.8		30.5		2.0
Green Ext Time (p_c), s	0.0	4.2		1.9		28.7

Intersection Summary	
HCM 6th Ctrl Delay	29.2
HCM 6th LOS	C

Notes

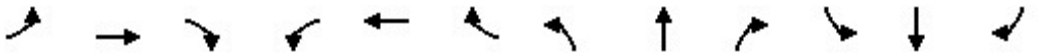
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	203	811	204	263	556	118	227	1543	322	267	2056	164
Future Volume (vph)	203	811	204	263	556	118	227	1543	322	267	2056	164
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2		1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	21.0	32.0	32.0	22.0	33.0	33.0	13.0	50.0	50.0	16.0	53.0	21.0
Total Split (%)	17.5%	26.7%	26.7%	18.3%	27.5%	27.5%	10.8%	41.7%	41.7%	13.3%	44.2%	17.5%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	16.3	26.2	26.2	17.4	27.3	27.3	8.4	44.6	44.6	11.4	46.5	69.3
Actuated g/C Ratio	0.14	0.22	0.22	0.14	0.23	0.23	0.07	0.37	0.37	0.10	0.39	0.58
v/c Ratio	0.95	1.11	0.46	1.15	0.73	0.28	1.06	0.86	0.44	0.92	1.10	0.18
Control Delay	100.0	110.8	15.1	149.5	49.3	8.3	130.4	40.8	6.1	88.6	89.8	7.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	100.0	110.8	15.1	149.5	49.3	8.3	130.4	40.8	6.1	88.6	89.8	7.5
LOS	F	F	B	F	D	A	F	D	A	F	F	A
Approach Delay		93.0			72.3			45.2			84.2	
Approach LOS		F			E			D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.15	
Intersection Signal Delay: 72.0	Intersection LOS: E
Intersection Capacity Utilization 107.0%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	203	811	204	263	556	118	227	1543	322	267	2056	164
Future Volume (veh/h)	203	811	204	263	556	118	227	1543	322	267	2056	164
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	207	828	106	268	567	68	232	1574	176	272	2098	90
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	221	747	329	235	775	340	220	1781	553	298	1904	800
Arrive On Green	0.14	0.22	0.22	0.14	0.23	0.23	0.07	0.36	0.36	0.09	0.39	0.39
Sat Flow, veh/h	1619	3420	1506	1619	3420	1502	3141	4914	1525	3141	4914	1525
Grp Volume(v), veh/h	207	828	106	268	567	68	232	1574	176	272	2098	90
Grp Sat Flow(s),veh/h/ln	1619	1710	1506	1619	1710	1502	1570	1638	1525	1570	1638	1525
Q Serve(g_s), s	15.2	26.2	7.1	17.4	18.4	4.4	8.4	36.1	10.0	10.3	46.5	3.6
Cycle Q Clear(g_c), s	15.2	26.2	7.1	17.4	18.4	4.4	8.4	36.1	10.0	10.3	46.5	3.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	221	747	329	235	775	340	220	1781	553	298	1904	800
V/C Ratio(X)	0.94	1.11	0.32	1.14	0.73	0.20	1.06	0.88	0.32	0.91	1.10	0.11
Avail Cap(c_a), veh/h	221	747	329	235	775	340	220	1826	567	298	1904	800
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.3	46.9	39.4	51.3	43.0	37.6	55.8	35.9	27.6	53.8	36.8	14.4
Incr Delay (d2), s/veh	42.3	67.0	0.6	102.2	3.6	0.3	76.0	5.4	0.3	29.8	54.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.6	17.7	2.6	13.5	7.9	1.6	5.5	14.2	3.6	5.2	27.3	1.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	93.6	113.9	40.0	153.5	46.6	37.9	131.8	41.3	27.9	83.6	91.2	14.5
LnGrp LOS	F	F	D	F	D	D	F	D	C	F	F	B
Approach Vol, veh/h		1141			903			1982			2460	
Approach Delay, s/veh		103.3			77.7			50.7			87.5	
Approach LOS		F			E			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.0	50.0	22.0	32.0	13.0	53.0	21.0	33.0
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	11.4	* 45	17.4	26.2	8.4	46.5	16.4	27.2
Max Q Clear Time (g_c+I1), s	12.3	38.1	19.4	28.2	10.4	48.5	17.2	20.4
Green Ext Time (p_c), s	0.0	4.8	0.0	0.0	0.0	0.0	0.0	2.0

Intersection Summary	
HCM 6th Ctrl Delay	77.7
HCM 6th LOS	E

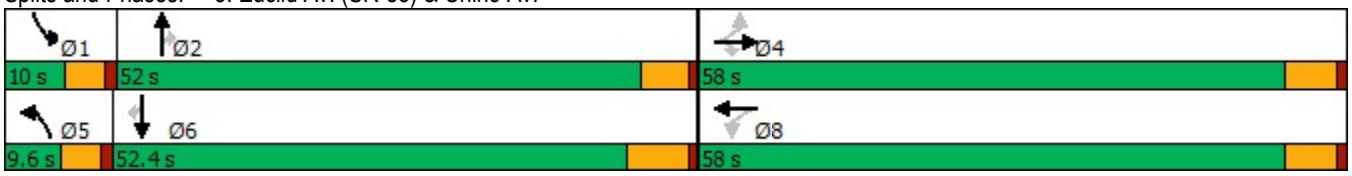
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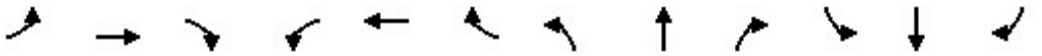
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	143	285	82	131	379	69	1979	213	124	2212	154
Future Volume (vph)	143	285	82	131	379	69	1979	213	124	2212	154
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	58.0	58.0	58.0	58.0	58.0	9.6	52.0	52.0	10.0	52.4	52.4
Total Split (%)	48.3%	48.3%	48.3%	48.3%	48.3%	8.0%	43.3%	43.3%	8.3%	43.7%	43.7%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8	5.8	5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	52.2	52.2	52.2	52.2	52.2	5.0	46.8	46.8	5.4	47.8	47.8
Actuated g/C Ratio	0.44	0.44	0.44	0.44	0.44	0.04	0.39	0.39	0.04	0.40	0.40
v/c Ratio	1.26	0.38	0.12	0.37	0.85	0.54	0.98	0.35	0.89	1.07	0.24
Control Delay	201.4	24.7	4.6	26.7	41.2	71.3	51.5	19.4	107.2	77.0	9.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	201.4	24.7	4.6	26.7	41.2	71.3	51.5	19.4	107.2	77.0	9.6
LOS	F	C	A	C	D	E	D	B	F	E	A
Approach Delay		71.1			38.7		49.1			74.4	
Approach LOS		E			D		D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.26	
Intersection Signal Delay: 60.1	Intersection LOS: E
Intersection Capacity Utilization 113.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	143	285	82	131	379	238	69	1979	213	124	2212	154
Future Volume (veh/h)	143	285	82	131	379	238	69	1979	213	124	2212	154
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	149	297	43	136	395	144	72	2061	113	129	2304	108
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	222	760	644	384	532	194	123	2113	597	146	2151	608
Arrive On Green	0.63	0.63	0.63	0.63	0.63	0.63	0.06	0.59	0.59	0.07	0.60	0.60
Sat Flow, veh/h	787	1800	1525	946	1259	459	3238	5400	1525	3238	5400	1525
Grp Volume(v), veh/h	149	297	43	136	0	539	72	2061	113	129	2304	108
Grp Sat Flow(s),veh/h/ln	787	1800	1525	946	0	1717	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	21.9	9.6	1.3	10.7	0.0	26.0	2.6	44.1	4.1	4.7	47.7	3.8
Cycle Q Clear(g_c), s	47.9	9.6	1.3	20.3	0.0	26.0	2.6	44.1	4.1	4.7	47.7	3.8
Prop In Lane	1.00		1.00	1.00		0.27	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	222	760	644	384	0	725	123	2113	597	146	2151	608
V/C Ratio(X)	0.67	0.39	0.07	0.35	0.00	0.74	0.59	0.98	0.19	0.88	1.07	0.18
Avail Cap(c_a), veh/h	233	785	666	397	0	749	135	2113	597	146	2151	608
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.0	14.4	12.9	19.4	0.0	17.4	55.5	24.2	15.9	55.4	24.1	15.2
Incr Delay (d2), s/veh	6.9	0.3	0.0	0.6	0.0	3.9	2.8	14.6	0.7	40.9	41.6	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.1	3.4	0.4	1.9	0.0	7.7	1.1	15.3	1.4	2.6	21.4	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	40.9	14.8	12.9	19.9	0.0	21.3	58.3	38.8	16.6	96.3	65.7	15.9
LnGrp LOS	D	B	B	B	A	C	E	D	B	F	F	B
Approach Vol, veh/h		489			675			2246			2541	
Approach Delay, s/veh		22.6			21.0			38.3			65.1	
Approach LOS		C			C			D			E	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	10.0	53.3		56.3	9.1	54.2		56.3				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	5.4	* 47		52.2	5.0	45.9		52.2				
Max Q Clear Time (g_c+I1), s	6.7	46.1		49.9	4.6	49.7		28.0				
Green Ext Time (p_c), s	0.0	0.6		0.6	0.0	0.0		4.1				

Intersection Summary		
HCM 6th Ctrl Delay		46.5
HCM 6th LOS		D

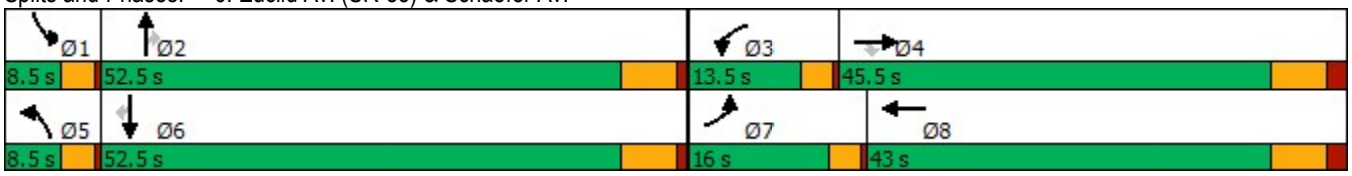
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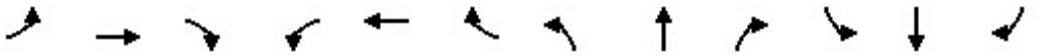
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	425	174	172	2	27	118	1887	85	107	2173	188
Future Volume (vph)	425	174	172	2	27	118	1887	85	107	2173	188
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	16.0	45.5	45.5	13.5	43.0	8.5	52.5	52.5	8.5	52.5	52.5
Total Split (%)	13.3%	37.9%	37.9%	11.3%	35.8%	7.1%	43.8%	43.8%	7.1%	43.8%	43.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	13.3	19.8	19.8	10.2	10.7	5.1	47.6	47.6	5.1	47.6	47.6
Actuated g/C Ratio	0.15	0.22	0.22	0.11	0.12	0.06	0.52	0.52	0.06	0.52	0.52
v/c Ratio	0.98	0.47	0.38	0.01	0.18	0.70	0.77	0.11	0.63	0.89	0.23
Control Delay	78.7	34.5	6.9	44.5	30.4	67.6	22.9	3.8	62.8	27.3	9.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	78.7	34.5	6.9	44.5	30.4	67.6	22.9	3.8	62.8	27.3	9.3
LOS	E	C	A	D	C	E	C	A	E	C	A
Approach Delay		52.7			31.1		24.7			27.5	
Approach LOS		D			C		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 91.5	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.98	
Intersection Signal Delay: 30.0	Intersection LOS: C
Intersection Capacity Utilization 82.9%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	425	174	172	2	27	9	118	1887	85	107	2173	188
Future Volume (veh/h)	425	174	172	2	27	9	118	1887	85	107	2173	188
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	443	181	142	2	28	6	123	1966	89	111	2264	159
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	447	349	295	9	82	18	179	2555	793	168	2539	788
Arrive On Green	0.14	0.19	0.19	0.01	0.06	0.06	0.06	0.52	0.52	0.05	0.52	0.52
Sat Flow, veh/h	3141	1800	1525	1619	1437	308	3141	4914	1525	3141	4914	1525
Grp Volume(v), veh/h	443	181	142	2	0	34	123	1966	89	111	2264	159
Grp Sat Flow(s),veh/h/ln	1570	1800	1525	1619	0	1745	1570	1638	1525	1570	1638	1525
Q Serve(g_s), s	12.4	7.9	7.3	0.1	0.0	1.6	3.4	28.2	2.6	3.0	36.3	4.9
Cycle Q Clear(g_c), s	12.4	7.9	7.3	0.1	0.0	1.6	3.4	28.2	2.6	3.0	36.3	4.9
Prop In Lane	1.00		1.00	1.00		0.18	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	447	349	295	9	0	99	179	2555	793	168	2539	788
V/C Ratio(X)	0.99	0.52	0.48	0.23	0.00	0.34	0.69	0.77	0.11	0.66	0.89	0.20
Avail Cap(c_a), veh/h	447	788	668	184	0	714	179	2599	807	179	2599	807
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.7	31.8	31.5	43.5	0.0	39.9	40.7	16.9	10.8	40.8	19.0	11.5
Incr Delay (d2), s/veh	40.3	0.9	0.9	4.8	0.0	1.5	8.9	1.4	0.1	6.0	4.3	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.0	3.3	2.6	0.1	0.0	0.7	1.4	8.8	0.8	1.2	11.9	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.0	32.7	32.4	48.3	0.0	41.4	49.6	18.3	10.8	46.9	23.3	11.6
LnGrp LOS	E	C	C	D	A	D	D	B	B	D	C	B
Approach Vol, veh/h		766			36			2178			2534	
Approach Delay, s/veh		58.8			41.8			19.8			23.6	
Approach LOS		E			D			B			C	

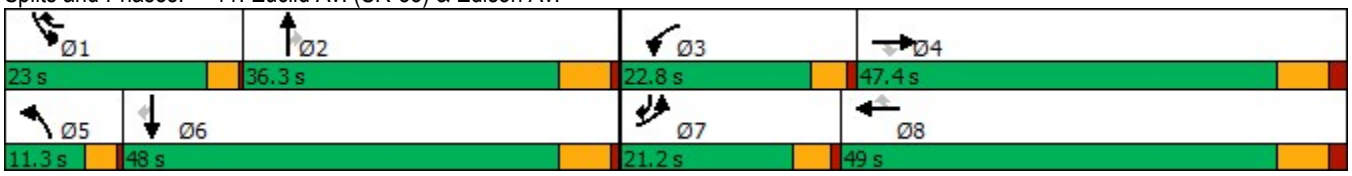
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.2	51.7	4.0	24.0	8.5	51.4	16.0	12.0
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	46.5	10.0	38.5	5.0	46.5	12.5	36.0
Max Q Clear Time (g_c+I1), s	5.0	30.2	2.1	9.9	5.4	38.3	14.4	3.6
Green Ext Time (p_c), s	0.0	11.5	0.0	1.0	0.0	7.1	0.0	0.1

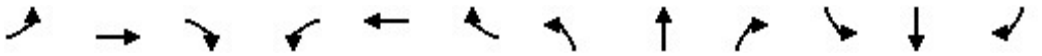
Intersection Summary	
HCM 6th Ctrl Delay	27.1
HCM 6th LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	415	850	220	353	877	622	179	1111	172	478	1676	274
Future Volume (vph)	415	850	220	353	877	622	179	1111	172	478	1676	274
Turn Type	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	1	5	2	2	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	46.0	46.0	9.5	49.0	8.5	8.5	29.0	29.0	8.5	40.0	9.5
Total Split (s)	21.2	47.4	47.4	22.8	49.0	23.0	11.3	36.3	36.3	23.0	48.0	21.2
Total Split (%)	16.4%	36.6%	36.6%	17.6%	37.8%	17.8%	8.7%	28.0%	28.0%	17.8%	37.1%	16.4%
Yellow Time (s)	3.5	5.0	5.0	3.5	5.0	3.0	3.0	5.0	5.0	3.0	5.0	3.5
All-Red Time (s)	1.0	2.0	2.0	1.0	2.0	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	7.0	7.0	4.5	7.0	3.5	3.5	6.0	6.0	3.5	6.0	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	16.7	37.1	37.1	17.4	37.8	60.8	7.8	30.3	30.3	19.5	42.1	60.3
Actuated g/C Ratio	0.13	0.30	0.30	0.14	0.30	0.48	0.06	0.24	0.24	0.16	0.34	0.48
v/c Ratio	1.02	0.60	0.41	0.84	0.88	0.84	0.95	0.96	0.38	1.01	1.05	0.37
Control Delay	103.9	39.8	15.5	70.4	52.3	33.9	111.8	66.0	15.0	96.3	76.8	15.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	103.9	39.8	15.5	70.4	52.3	33.9	111.8	66.0	15.0	96.3	76.8	15.9
LOS	F	D	B	E	D	C	F	E	B	F	E	B
Approach Delay		54.1			49.6			65.6			73.8	
Approach LOS		D			D			E			E	

Intersection Summary	
Cycle Length: 129.5	
Actuated Cycle Length: 125.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.05	
Intersection Signal Delay: 61.9	Intersection LOS: E
Intersection Capacity Utilization 97.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	415	850	220	353	877	622	179	1111	172	478	1676	274
Future Volume (veh/h)	415	850	220	353	877	622	179	1111	172	478	1676	274
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	428	876	124	364	904	383	185	1145	95	493	1728	148
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	417	1498	465	414	1039	699	195	1185	367	487	1642	712
Arrive On Green	0.13	0.30	0.30	0.13	0.30	0.30	0.06	0.24	0.24	0.16	0.33	0.33
Sat Flow, veh/h	3141	4914	1524	3141	3420	1521	3141	4914	1522	3141	4914	1524
Grp Volume(v), veh/h	428	876	124	364	904	383	185	1145	95	493	1728	148
Grp Sat Flow(s),veh/h/ln	1570	1638	1524	1570	1710	1521	1570	1638	1522	1570	1638	1524
Q Serve(g_s), s	16.7	19.0	7.7	14.3	31.4	22.9	7.4	29.0	6.4	19.5	42.0	7.2
Cycle Q Clear(g_c), s	16.7	19.0	7.7	14.3	31.4	22.9	7.4	29.0	6.4	19.5	42.0	7.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	417	1498	465	414	1039	699	195	1185	367	487	1642	712
V/C Ratio(X)	1.03	0.58	0.27	0.88	0.87	0.55	0.95	0.97	0.26	1.01	1.05	0.21
Avail Cap(c_a), veh/h	417	1579	490	457	1143	745	195	1185	367	487	1642	712
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.5	37.0	33.1	53.6	41.4	24.6	58.8	47.2	38.6	53.1	41.9	19.8
Incr Delay (d2), s/veh	50.8	0.5	0.3	16.5	7.0	0.7	49.4	18.6	0.4	43.7	37.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.4	7.4	2.8	6.5	13.7	8.0	4.2	13.2	2.4	10.3	21.5	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	105.3	37.5	33.4	70.0	48.4	25.3	108.2	65.8	39.0	96.8	79.3	19.9
LnGrp LOS	F	D	C	E	D	C	F	E	D	F	F	B
Approach Vol, veh/h		1428			1651			1425			2369	
Approach Delay, s/veh		57.4			47.8			69.5			79.2	
Approach LOS		E			D			E			E	

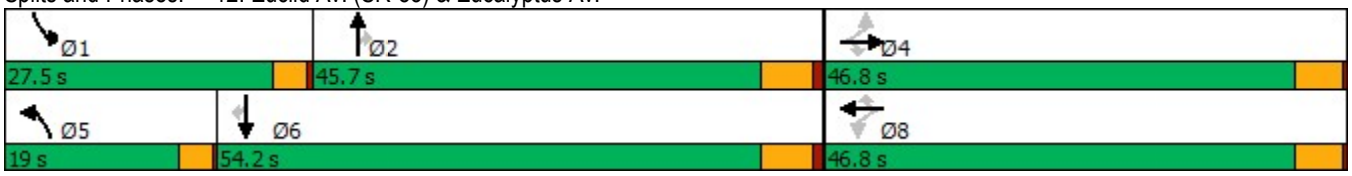
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	36.3	21.1	45.3	11.3	48.0	21.2	45.2
Change Period (Y+Rc), s	3.5	6.0	4.5	7.0	3.5	6.0	4.5	7.0
Max Green Setting (Gmax), s	19.5	30.3	18.3	40.4	7.8	42.0	16.7	42.0
Max Q Clear Time (g_c+I1), s	21.5	31.0	16.3	21.0	9.4	44.0	18.7	33.4
Green Ext Time (p_c), s	0.0	0.0	0.3	5.9	0.0	0.0	0.0	4.5

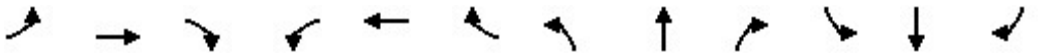
Intersection Summary	
HCM 6th Ctrl Delay	65.1
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	78	175	180	41	174	112	186	1214	140	288	1824	43
Future Volume (vph)	78	175	180	41	174	112	186	1214	140	288	1824	43
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	46.8	19.0	45.7	45.7	27.5	54.2	54.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	39.0%	15.8%	38.1%	38.1%	22.9%	45.2%	45.2%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag							Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?							Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	17.8	17.8	17.8	17.8	17.8	17.8	15.7	40.1	40.1	23.4	47.8	47.8
Actuated g/C Ratio	0.19	0.19	0.19	0.19	0.19	0.19	0.16	0.42	0.42	0.25	0.50	0.50
v/c Ratio	0.55	0.56	0.44	0.15	0.56	0.31	0.75	0.63	0.22	0.79	0.80	0.06
Control Delay	47.7	41.1	7.5	31.9	41.0	7.7	59.6	25.4	11.8	51.1	24.6	5.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	47.7	41.1	7.5	31.9	41.0	7.7	59.6	25.4	11.8	51.1	24.6	5.5
LOS	D	D	A	C	D	A	E	C	B	D	C	A
Approach Delay		28.3			28.5			28.3			27.8	
Approach LOS		C			C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 95.5	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.80	
Intersection Signal Delay: 28.1	Intersection LOS: C
Intersection Capacity Utilization 79.3%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	78	175	180	41	174	112	186	1214	140	288	1824	43
Future Volume (veh/h)	78	175	180	41	174	112	186	1214	140	288	1824	43
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	84	188	109	44	187	114	200	1305	149	310	1961	34
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	198	381	322	389	381	322	232	2060	639	344	2400	744
Arrive On Green	0.21	0.21	0.21	0.21	0.21	0.21	0.14	0.42	0.42	0.21	0.49	0.49
Sat Flow, veh/h	980	1800	1525	1908	1800	1525	1619	4914	1525	1619	4914	1524
Grp Volume(v), veh/h	84	188	109	44	187	114	200	1305	149	310	1961	34
Grp Sat Flow(s),veh/h/ln	980	1800	1525	954	1800	1525	1619	1638	1525	1619	1638	1524
Q Serve(g_s), s	7.4	8.2	5.4	1.9	8.2	5.7	10.8	18.7	5.6	16.6	30.3	1.0
Cycle Q Clear(g_c), s	15.5	8.2	5.4	10.1	8.2	5.7	10.8	18.7	5.6	16.6	30.3	1.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	198	381	322	389	381	322	232	2060	639	344	2400	744
V/C Ratio(X)	0.42	0.49	0.34	0.11	0.49	0.35	0.86	0.63	0.23	0.90	0.82	0.05
Avail Cap(c_a), veh/h	453	848	719	885	848	719	281	2205	684	436	2673	829
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.8	31.0	29.9	35.4	30.9	30.0	37.3	20.5	16.7	34.2	19.4	11.9
Incr Delay (d2), s/veh	1.1	0.7	0.5	0.1	0.7	0.5	19.1	0.5	0.2	17.7	1.9	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	3.5	1.9	0.4	3.4	2.0	5.2	6.2	1.7	7.6	9.8	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	38.8	31.7	30.3	35.5	31.7	30.5	56.4	21.0	16.9	51.9	21.3	12.0
LnGrp LOS	D	C	C	D	C	C	E	C	B	D	C	B
Approach Vol, veh/h		381			345			1654			2305	
Approach Delay, s/veh		32.9			31.8			24.9			25.3	
Approach LOS		C			C			C			C	

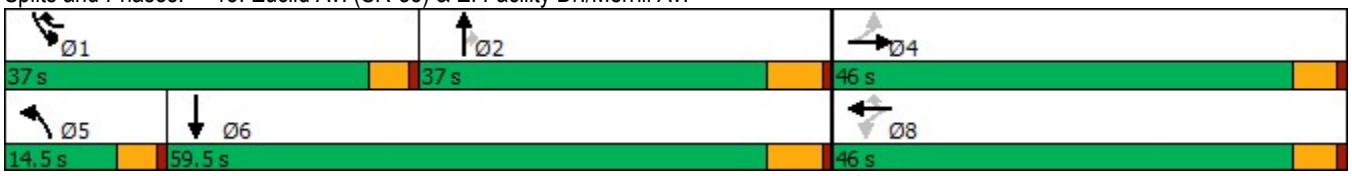
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	22.4	43.1		23.6	16.3	49.2		23.6				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	24.0	40.0		42.0	15.5	48.5		42.0				
Max Q Clear Time (g_c+I1), s	18.6	20.7		17.5	12.8	32.3		12.1				
Green Ext Time (p_c), s	0.3	8.6		1.3	0.1	11.2		1.2				

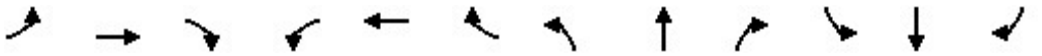
Intersection Summary			
HCM 6th Ctrl Delay		26.3	
HCM 6th LOS		C	

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	8	5	405	60	297	41	1479	629	646	1417
Future Volume (vph)	8	5	405	60	297	41	1479	629	646	1417
Turn Type	Perm	NA	Perm	NA	pm+ov	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	1	5	2		1	6
Permitted Phases	4		8		8			2		
Detector Phase	4	4	8	8	1	5	2	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	14.5	28.0	28.0	14.5	28.0
Total Split (s)	46.0	46.0	46.0	46.0	37.0	14.5	37.0	37.0	37.0	59.5
Total Split (%)	38.3%	38.3%	38.3%	38.3%	30.8%	12.1%	30.8%	30.8%	30.8%	49.6%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	4.5	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)	23.6	23.6	23.6	23.6	61.4	10.1	31.2	31.2	32.7	60.1
Actuated g/C Ratio	0.23	0.23	0.23	0.23	0.59	0.10	0.30	0.30	0.32	0.58
v/c Ratio	0.03	0.02	0.76	0.16	0.34	0.28	1.06	1.10	1.34	0.55
Control Delay	28.9	22.4	45.7	31.2	10.5	51.4	76.4	93.3	198.0	17.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	28.9	22.4	45.7	31.2	10.5	51.4	76.4	93.3	198.0	17.0
LOS	C	C	D	C	B	D	E	F	F	B
Approach Delay		25.6		30.8			80.9			71.9
Approach LOS		C		C			F			E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 103.2	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.34	
Intersection Signal Delay: 69.4	Intersection LOS: E
Intersection Capacity Utilization 102.7%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	5	4	405	60	297	41	1479	629	646	1417	67
Future Volume (veh/h)	8	5	4	405	60	297	41	1479	629	646	1417	67
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	9	5	2	431	64	178	44	1573	403	687	1507	39
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	254	251	100	646	369	812	115	1533	476	530	2799	72
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.07	0.31	0.31	0.33	0.57	0.57
Sat Flow, veh/h	1034	1223	489	2484	1800	1525	1619	4914	1525	1619	4926	127
Grp Volume(v), veh/h	9	0	7	431	64	178	44	1573	403	687	1002	544
Grp Sat Flow(s),veh/h/ln	1034	0	1712	1242	1800	1525	1619	1638	1525	1619	1638	1777
Q Serve(g_s), s	0.7	0.0	0.3	16.7	2.9	6.1	2.6	31.0	24.5	32.5	18.9	18.9
Cycle Q Clear(g_c), s	3.6	0.0	0.3	17.0	2.9	6.1	2.6	31.0	24.5	32.5	18.9	18.9
Prop In Lane	1.00		0.29	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	254	0	351	646	369	812	115	1533	476	530	1862	1010
V/C Ratio(X)	0.04	0.00	0.02	0.67	0.17	0.22	0.38	1.03	0.85	1.30	0.54	0.54
Avail Cap(c_a), veh/h	469	0	706	1162	743	1128	163	1533	476	530	1862	1010
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.1	0.0	31.5	38.3	32.6	12.3	44.1	34.2	32.0	33.4	13.3	13.3
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.4	0.1	0.0	0.8	29.9	13.3	147.3	0.3	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.1	4.8	1.2	1.8	1.0	15.4	10.0	33.1	5.8	6.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	34.1	0.0	31.5	38.8	32.6	12.4	44.9	64.0	45.3	180.7	13.7	13.9
LnGrp LOS	C	A	C	D	C	B	D	F	D	F	B	B
Approach Vol, veh/h		16			673			2020			2233	
Approach Delay, s/veh		33.0			31.2			59.9			65.1	
Approach LOS		C			C			E			E	

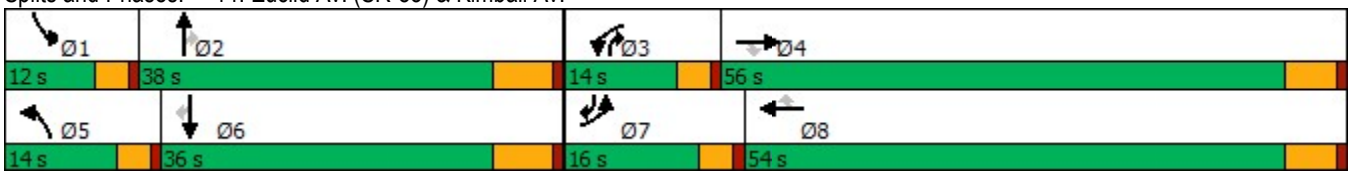
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	37.0	37.0		25.4	11.5	62.5		25.4				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	32.5	31.0		41.0	10.0	53.5		41.0				
Max Q Clear Time (g_c+I1), s	34.5	33.0		5.6	4.6	20.9		19.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	11.5		1.4				

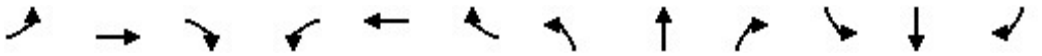
Intersection Summary			
HCM 6th Ctrl Delay		58.3	
HCM 6th LOS		E	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	337	349	67	124	1184	805	91	1201	74	218	998	483
Future Volume (vph)	337	349	67	124	1184	805	91	1201	74	218	998	483
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	47.8	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	16.0	56.0	56.0	14.0	54.0	54.0	14.0	38.0	14.0	12.0	36.0	16.0
Total Split (%)	13.3%	46.7%	46.7%	11.7%	45.0%	45.0%	11.7%	31.7%	11.7%	10.0%	30.0%	13.3%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	4.8	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	5.8	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	12.0	50.2	50.2	10.0	48.2	48.2	10.0	31.5	48.0	8.0	29.5	44.0
Actuated g/C Ratio	0.10	0.42	0.42	0.08	0.40	0.40	0.08	0.26	0.40	0.07	0.25	0.37
v/c Ratio	1.18	0.25	0.10	0.49	0.89	1.14	0.70	0.96	0.12	1.15	0.85	0.84
Control Delay	157.1	23.3	1.6	59.4	42.8	107.4	80.7	61.1	5.4	159.1	51.1	41.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	157.1	23.3	1.6	59.4	42.8	107.4	80.7	61.1	5.4	159.1	51.1	41.7
LOS	F	C	A	E	D	F	F	E	A	F	D	D
Approach Delay		81.2			68.4			59.4			62.3	
Approach LOS		F			E			E			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.18	
Intersection Signal Delay: 66.2	Intersection LOS: E
Intersection Capacity Utilization 102.1%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	337	349	67	124	1184	805	91	1201	74	218	998	483
Future Volume (veh/h)	337	349	67	124	1184	805	91	1201	74	218	998	483
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	347	360	59	128	1221	652	94	1238	62	225	1029	447
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	296	1435	640	258	1374	613	129	1290	526	197	1226	528
Arrive On Green	0.10	0.42	0.42	0.08	0.40	0.40	0.08	0.26	0.26	0.07	0.25	0.25
Sat Flow, veh/h	2956	3420	1525	3141	3420	1525	1619	4914	1525	2956	4914	1506
Grp Volume(v), veh/h	347	360	59	128	1221	652	94	1238	62	225	1029	447
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1570	1710	1525	1619	1638	1525	1478	1638	1506
Q Serve(g_s), s	12.0	8.2	2.8	4.7	39.9	48.2	6.8	29.8	3.3	8.0	23.9	29.9
Cycle Q Clear(g_c), s	12.0	8.2	2.8	4.7	39.9	48.2	6.8	29.8	3.3	8.0	23.9	29.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	296	1435	640	258	1374	613	129	1290	526	197	1226	528
V/C Ratio(X)	1.17	0.25	0.09	0.50	0.89	1.06	0.73	0.96	0.12	1.14	0.84	0.85
Avail Cap(c_a), veh/h	296	1435	640	262	1374	613	135	1290	526	197	1226	528
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.0	22.6	21.0	52.7	33.4	35.9	53.9	43.6	26.9	56.0	42.8	36.1
Incr Delay (d2), s/veh	108.0	0.1	0.1	0.5	7.3	54.6	14.8	16.5	0.1	107.4	5.5	12.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.8	3.2	1.0	1.8	16.9	26.1	3.2	13.3	1.2	5.8	9.7	13.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	162.0	22.7	21.1	53.2	40.7	90.5	68.7	60.1	27.0	163.4	48.3	48.6
LnGrp LOS	F	C	C	D	D	F	E	E	C	F	D	D
Approach Vol, veh/h		766			2001			1394			1701	
Approach Delay, s/veh		85.7			57.7			59.2			63.6	
Approach LOS		F			E			E			E	

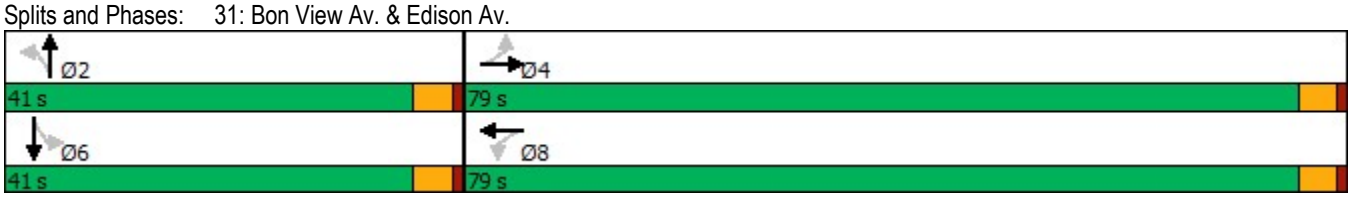
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.0	38.0	13.9	56.1	13.6	36.4	16.0	54.0
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	8.0	31.5	10.0	50.2	10.0	29.5	12.0	48.2
Max Q Clear Time (g_c+I1), s	10.0	31.8	6.7	10.2	8.8	31.9	14.0	50.2
Green Ext Time (p_c), s	0.0	0.0	0.1	2.4	0.0	0.0	0.0	0.0

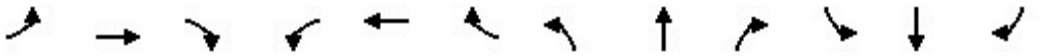
Intersection Summary	
HCM 6th Ctrl Delay	63.4
HCM 6th LOS	E

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	60	1229	21	1543	163	207	12	147
Future Volume (vph)	60	1229	21	1543	163	207	12	147
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	79.0	79.0	79.0	79.0	41.0	41.0	41.0	41.0
Total Split (%)	65.8%	65.8%	65.8%	65.8%	34.2%	34.2%	34.2%	34.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	66.6	66.6	66.6	66.6	28.0	28.0	28.0	28.0
Actuated g/C Ratio	0.64	0.64	0.64	0.64	0.27	0.27	0.27	0.27
v/c Ratio	0.78	0.50	0.19	0.57	0.88	0.59	0.08	0.50
Control Delay	72.5	10.9	13.7	12.1	74.1	38.5	31.3	34.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	72.5	10.9	13.7	12.1	74.1	38.5	31.3	34.8
LOS	E	B	B	B	E	D	C	C
Approach Delay		13.5		12.1		52.7		34.6
Approach LOS		B		B		D		C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 104.2	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.88	
Intersection Signal Delay: 18.5	Intersection LOS: B
Intersection Capacity Utilization 70.1%	ICU Level of Service C
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	60	1229	137	21	1543	36	163	207	38	12	147	59
Future Volume (veh/h)	60	1229	137	21	1543	36	163	207	38	12	147	59
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	72	1481	165	25	1859	43	196	249	46	14	177	71
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	162	2900	323	201	3194	74	289	475	88	256	392	157
Arrive On Green	0.61	0.61	0.61	0.61	0.61	0.61	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	241	4736	527	309	5216	121	1150	1560	288	1101	1290	517
Grp Volume(v), veh/h	72	1081	565	25	1232	670	196	0	295	14	0	248
Grp Sat Flow(s),veh/h/ln	241	1729	1805	309	1729	1878	1150	0	1848	1101	0	1807
Q Serve(g_s), s	27.8	19.1	19.1	5.4	23.2	23.2	17.9	0.0	14.3	1.2	0.0	12.0
Cycle Q Clear(g_c), s	51.0	19.1	19.1	24.4	23.2	23.2	29.9	0.0	14.3	15.4	0.0	12.0
Prop In Lane	1.00		0.29	1.00		0.06	1.00		0.16	1.00		0.29
Lane Grp Cap(c), veh/h	162	2118	1105	201	2118	1150	289	0	562	256	0	550
V/C Ratio(X)	0.44	0.51	0.51	0.12	0.58	0.58	0.68	0.00	0.52	0.05	0.00	0.45
Avail Cap(c_a), veh/h	181	2384	1244	225	2384	1295	328	0	624	293	0	610
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	28.0	11.8	11.8	18.7	12.6	12.6	42.4	0.0	31.1	37.5	0.0	30.3
Incr Delay (d2), s/veh	1.9	0.2	0.4	0.3	0.3	0.5	4.7	0.0	0.8	0.1	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.6	6.4	6.7	0.4	7.8	8.6	5.3	0.0	6.2	0.3	0.0	5.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	29.9	12.0	12.2	19.0	12.9	13.1	47.0	0.0	31.9	37.6	0.0	30.9
LnGrp LOS	C	B	B	B	B	B	D	A	C	D	A	C
Approach Vol, veh/h		1718			1927			491			262	
Approach Delay, s/veh		12.8			13.1			37.9			31.3	
Approach LOS		B			B			D			C	

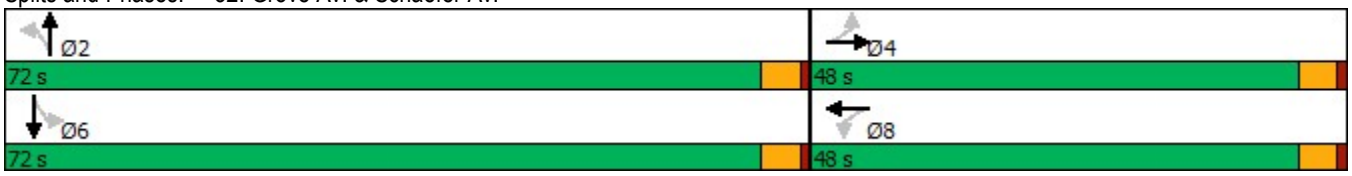
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		37.4		70.7		37.4		70.7				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		36.5		74.5		36.5		74.5				
Max Q Clear Time (g_c+I1), s		31.9		53.0		17.4		26.4				
Green Ext Time (p_c), s		1.0		13.2		1.2		20.9				

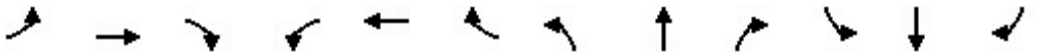
Intersection Summary												
HCM 6th Ctrl Delay			16.8									
HCM 6th LOS			B									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	48	128	51	311	54	618	58	516
Future Volume (vph)	48	128	51	311	54	618	58	516
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	48.0	48.0	48.0	48.0	72.0	72.0	72.0	72.0
Total Split (%)	40.0%	40.0%	40.0%	40.0%	60.0%	60.0%	60.0%	60.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	10.2	10.2	10.2	10.2	13.0	13.0	13.0	13.0
Actuated g/C Ratio	0.31	0.31	0.31	0.31	0.40	0.40	0.40	0.40
v/c Ratio	0.16	0.16	0.14	0.35	0.17	0.47	0.20	0.42
Control Delay	10.0	7.1	9.5	9.3	8.8	8.8	9.3	8.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	10.0	7.1	9.5	9.3	8.8	8.8	9.3	8.3
LOS	B	A	A	A	A	A	A	A
Approach Delay		7.7		9.3		8.8		8.4
Approach LOS		A		A		A		A

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 32.6	
Natural Cycle: 45	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.47	
Intersection Signal Delay: 8.7	Intersection LOS: A
Intersection Capacity Utilization 51.8%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 32: Grove Av. & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	48	128	41	51	311	64	54	618	23	58	516	56
Future Volume (veh/h)	48	128	41	51	311	64	54	618	23	58	516	56
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	50	133	43	53	324	67	56	644	24	60	538	58
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	431	686	214	531	756	154	515	1458	54	487	1350	145
Arrive On Green	0.25	0.25	0.25	0.25	0.25	0.25	0.41	0.41	0.41	0.41	0.41	0.41
Sat Flow, veh/h	1009	2709	844	1228	2986	610	835	3549	132	781	3288	353
Grp Volume(v), veh/h	50	87	89	53	194	197	56	327	341	60	295	301
Grp Sat Flow(s),veh/h/ln	1009	1805	1748	1228	1805	1790	835	1805	1876	781	1805	1836
Q Serve(g_s), s	1.2	1.0	1.1	1.0	2.4	2.5	1.4	3.5	3.5	1.6	3.1	3.1
Cycle Q Clear(g_c), s	3.6	1.0	1.1	2.0	2.4	2.5	4.5	3.5	3.5	5.1	3.1	3.1
Prop In Lane	1.00		0.48	1.00		0.34	1.00		0.07	1.00		0.19
Lane Grp Cap(c), veh/h	431	457	443	531	457	454	515	741	771	487	741	754
V/C Ratio(X)	0.12	0.19	0.20	0.10	0.42	0.43	0.11	0.44	0.44	0.12	0.40	0.40
Avail Cap(c_a), veh/h	1813	2931	2838	2213	2931	2907	2275	4547	4727	2134	4547	4626
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	9.9	7.8	7.9	8.7	8.4	8.4	7.1	5.7	5.7	7.5	5.6	5.6
Incr Delay (d2), s/veh	0.1	0.2	0.2	0.1	0.6	0.7	0.1	0.4	0.4	0.1	0.3	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.2	0.2	0.1	0.5	0.5	0.1	0.3	0.3	0.1	0.3	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	10.0	8.0	8.1	8.7	9.0	9.0	7.2	6.1	6.1	7.6	5.9	5.9
LnGrp LOS	B	A	A	A	A	A	A	A	A	A	A	A
Approach Vol, veh/h		226			444			724			656	
Approach Delay, s/veh		8.5			9.0			6.2			6.1	
Approach LOS		A			A			A			A	

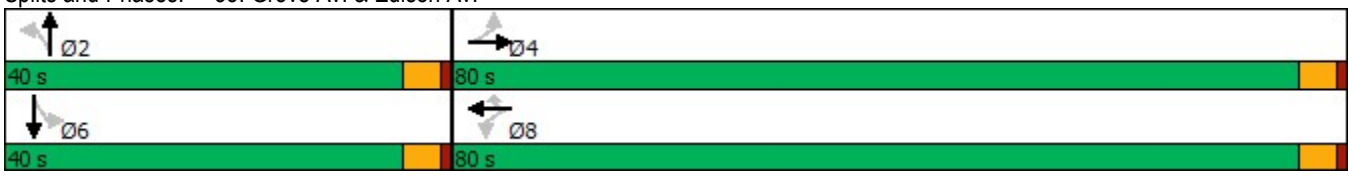
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		15.5		11.3		15.5		11.3				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		67.5		43.5		67.5		43.5				
Max Q Clear Time (g_c+I1), s		6.5		5.6		7.1		4.5				
Green Ext Time (p_c), s		4.3		1.2		3.9		2.4				

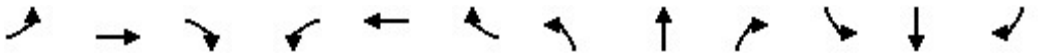
Intersection Summary												
HCM 6th Ctrl Delay			7.0									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	224	1337	99	1482	103	159	385	62	518
Future Volume (vph)	224	1337	99	1482	103	159	385	62	518
Turn Type	Perm	NA	Perm	NA	Perm	Perm	NA	Perm	NA
Protected Phases		4		8			2		6
Permitted Phases	4		8		8	2		6	
Detector Phase	4	4	8	8	8	2	2	6	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	80.0	80.0	80.0	80.0	80.0	40.0	40.0	40.0	40.0
Total Split (%)	66.7%	66.7%	66.7%	66.7%	66.7%	33.3%	33.3%	33.3%	33.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	75.5	75.5	75.5	75.5	75.5	35.5	35.5	35.5	35.5
Actuated g/C Ratio	0.63	0.63	0.63	0.63	0.63	0.30	0.30	0.30	0.30
v/c Ratio	1.58	0.57	1.04	0.46	0.11	1.31	0.41	0.32	0.61
Control Delay	311.5	13.0	128.0	12.2	1.9	220.0	34.9	38.3	38.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	311.5	13.0	128.0	12.2	1.9	220.0	34.9	38.3	38.2
LOS	F	B	F	B	A	F	C	D	D
Approach Delay		46.3		18.4			86.8		38.2
Approach LOS		D		B			F		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 45	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.58	
Intersection Signal Delay: 40.3	Intersection LOS: D
Intersection Capacity Utilization 86.9%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	224	1337	444	99	1482	103	159	385	22	62	518	85
Future Volume (veh/h)	224	1337	444	99	1482	103	159	385	22	62	518	85
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	238	1422	366	105	1577	57	169	410	12	66	551	53
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	193	2609	668	165	3398	960	172	1030	30	237	957	92
Arrive On Green	0.63	0.63	0.63	0.63	0.63	0.63	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	279	4147	1062	241	5400	1525	741	3480	102	877	3234	310
Grp Volume(v), veh/h	238	1234	554	105	1577	57	169	212	210	66	306	298
Grp Sat Flow(s),veh/h/ln	279	1800	1609	241	1800	1525	741	1800	1782	877	1800	1744
Q Serve(g_s), s	57.1	23.2	23.4	52.1	18.4	1.7	18.1	11.3	11.3	7.8	17.3	17.4
Cycle Q Clear(g_c), s	75.5	23.2	23.4	75.5	18.4	1.7	35.5	11.3	11.3	19.1	17.3	17.4
Prop In Lane	1.00		0.66	1.00		1.00	1.00		0.06	1.00		0.18
Lane Grp Cap(c), veh/h	193	2265	1012	165	3398	960	172	533	527	237	533	516
V/C Ratio(X)	1.23	0.54	0.55	0.64	0.46	0.06	0.98	0.40	0.40	0.28	0.57	0.58
Avail Cap(c_a), veh/h	193	2265	1012	165	3398	960	172	533	527	237	533	516
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.3	12.6	12.6	34.1	11.7	8.6	54.0	33.7	33.7	41.4	35.8	35.9
Incr Delay (d2), s/veh	141.3	0.3	0.6	8.0	0.1	0.0	63.7	0.5	0.5	0.6	1.5	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.3	8.3	7.6	3.2	6.5	0.5	8.0	4.8	4.8	1.7	7.5	7.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	181.6	12.8	13.2	42.0	11.8	8.6	117.7	34.2	34.2	42.0	37.4	37.5
LnGrp LOS	F	B	B	D	B	A	F	C	C	D	D	D
Approach Vol, veh/h		2026			1739			591			670	
Approach Delay, s/veh		32.8			13.5			58.1			37.9	
Approach LOS		C			B			E			D	

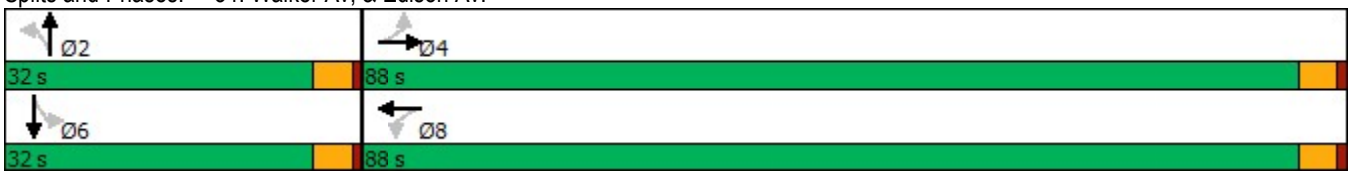
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		40.0		80.0		40.0		80.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		35.5		75.5		35.5		75.5				
Max Q Clear Time (g_c+I1), s		37.5		77.5		21.1		77.5				
Green Ext Time (p_c), s		0.0		0.0		3.1		0.0				

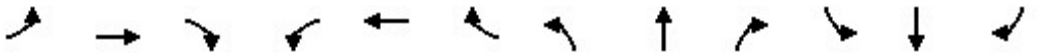
Intersection Summary												
HCM 6th Ctrl Delay			29.7									
HCM 6th LOS			C									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	59	1450	285	2119	52	173	204	274
Future Volume (vph)	59	1450	285	2119	52	173	204	274
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	88.0	88.0	88.0	88.0	32.0	32.0	32.0	32.0
Total Split (%)	73.3%	73.3%	73.3%	73.3%	26.7%	26.7%	26.7%	26.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	83.5	83.5	83.5	83.5	27.5	27.5	27.5	27.5
Actuated g/C Ratio	0.70	0.70	0.70	0.70	0.23	0.23	0.23	0.23
v/c Ratio	0.69	0.30	1.43	0.45	0.56	0.67	1.61	0.77
Control Delay	54.9	7.1	239.8	8.3	65.5	47.4	340.2	55.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	54.9	7.1	239.8	8.3	65.5	47.4	340.2	55.9
LOS	D	A	F	A	E	D	F	E
Approach Delay		8.8		34.0		50.3		166.6
Approach LOS		A		C		D		F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.61	
Intersection Signal Delay: 41.0	Intersection LOS: D
Intersection Capacity Utilization 80.0%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 34: Walker Av, & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	1450	85	285	2119	157	52	173	105	204	274	47
Future Volume (veh/h)	59	1450	85	285	2119	157	52	173	105	204	274	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	61	1510	89	297	2207	164	54	180	109	212	285	49
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	144	4945	291	258	4863	361	123	254	154	148	362	62
Arrive On Green	0.70	0.70	0.70	0.70	0.70	0.70	0.23	0.23	0.23	0.23	0.23	0.23
Sat Flow, veh/h	152	7106	418	323	6988	518	1063	1108	671	1107	1580	272
Grp Volume(v), veh/h	61	1211	388	297	1799	572	54	0	289	212	0	334
Grp Sat Flow(s),veh/h/ln	152	1900	1825	323	1900	1807	1063	0	1779	1107	0	1851
Q Serve(g_s), s	35.9	9.8	9.9	73.6	16.8	16.9	6.0	0.0	17.9	9.6	0.0	20.4
Cycle Q Clear(g_c), s	52.8	9.8	9.9	83.5	16.8	16.9	26.4	0.0	17.9	27.5	0.0	20.4
Prop In Lane	1.00		0.23	1.00		0.29	1.00		0.38	1.00		0.15
Lane Grp Cap(c), veh/h	144	3966	1270	258	3966	1257	123	0	408	148	0	424
V/C Ratio(X)	0.42	0.31	0.31	1.15	0.45	0.45	0.44	0.00	0.71	1.43	0.00	0.79
Avail Cap(c_a), veh/h	144	3966	1270	258	3966	1257	123	0	408	148	0	424
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	19.9	7.0	7.1	31.7	8.1	8.1	55.9	0.0	42.6	57.2	0.0	43.5
Incr Delay (d2), s/veh	2.0	0.0	0.1	102.6	0.1	0.3	2.4	0.0	5.6	227.9	0.0	9.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.2	3.4	3.3	15.0	5.8	5.6	1.7	0.0	8.3	13.8	0.0	10.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	21.8	7.1	7.2	134.3	8.2	8.4	58.4	0.0	48.2	285.0	0.0	53.0
LnGrp LOS	C	A	A	F	A	A	E	A	D	F	A	D
Approach Vol, veh/h		1660			2668			343			546	
Approach Delay, s/veh		7.7			22.3			49.8			143.1	
Approach LOS		A			C			D			F	

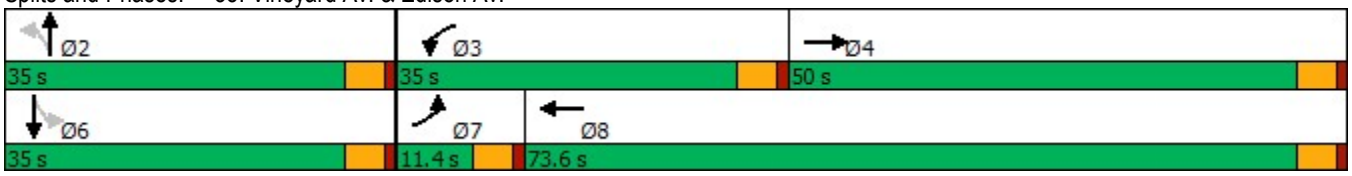
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		32.0		88.0		32.0		88.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		27.5		83.5		27.5		83.5				
Max Q Clear Time (g_c+I1), s		28.4		54.8		29.5		85.5				
Green Ext Time (p_c), s		0.0		16.1		0.0		0.0				

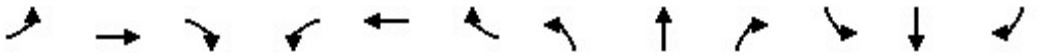
Intersection Summary												
HCM 6th Ctrl Delay			32.1									
HCM 6th LOS			C									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	35	1485	301	2118	77	164	64	92
Future Volume (vph)	35	1485	301	2118	77	164	64	92
Turn Type	Prot	NA	Prot	NA	Perm	NA	Perm	NA
Protected Phases	7	4	3	8		2		6
Permitted Phases					2		6	
Detector Phase	7	4	3	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.6	21.6	9.6	21.6	21.6	21.6	21.6	21.6
Total Split (s)	11.4	50.0	35.0	73.6	35.0	35.0	35.0	35.0
Total Split (%)	9.5%	41.7%	29.2%	61.3%	29.2%	29.2%	29.2%	29.2%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lead	Lag				
Lead-Lag Optimize?	Yes	Yes	Yes	Yes				
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	6.3	37.5	22.0	58.6	20.4	20.4	20.4	20.4
Actuated g/C Ratio	0.07	0.40	0.23	0.62	0.22	0.22	0.22	0.22
v/c Ratio	0.32	0.82	0.78	0.73	0.31	0.76	0.67	0.29
Control Delay	57.1	30.6	49.9	16.1	37.9	46.4	68.5	34.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	57.1	30.6	49.9	16.1	37.9	46.4	68.5	34.1
LOS	E	C	D	B	D	D	E	C
Approach Delay		31.2		20.2		44.6		47.0
Approach LOS		C		C		D		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 94.6	
Natural Cycle: 75	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.82	
Intersection Signal Delay: 26.9	Intersection LOS: C
Intersection Capacity Utilization 82.2%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 35: Vineyard Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	35	1485	57	301	2118	41	77	164	121	64	92	15
Future Volume (veh/h)	35	1485	57	301	2118	41	77	164	121	64	92	15
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	38	1614	62	327	2302	45	84	178	132	70	100	16
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	63	1984	76	368	2911	57	354	250	186	184	395	63
Arrive On Green	0.03	0.39	0.39	0.20	0.56	0.56	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	1810	5126	197	1810	5237	102	1369	1013	751	1147	1598	256
Grp Volume(v), veh/h	38	1089	587	327	1518	829	84	0	310	70	0	116
Grp Sat Flow(s),veh/h/ln	1810	1729	1865	1810	1729	1882	1369	0	1765	1147	0	1854
Q Serve(g_s), s	1.8	23.9	24.0	14.9	29.5	29.7	4.5	0.0	13.6	5.0	0.0	4.3
Cycle Q Clear(g_c), s	1.8	23.9	24.0	14.9	29.5	29.7	8.7	0.0	13.6	18.7	0.0	4.3
Prop In Lane	1.00		0.11	1.00		0.05	1.00		0.43	1.00		0.14
Lane Grp Cap(c), veh/h	63	1339	722	368	1922	1046	354	0	436	184	0	458
V/C Ratio(X)	0.60	0.81	0.81	0.89	0.79	0.79	0.24	0.00	0.71	0.38	0.00	0.25
Avail Cap(c_a), veh/h	145	1847	996	647	2807	1528	505	0	631	311	0	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	40.4	23.3	23.3	32.9	14.9	15.0	29.2	0.0	29.2	37.8	0.0	25.7
Incr Delay (d2), s/veh	3.4	1.4	2.6	3.3	0.5	1.0	0.1	0.0	0.8	0.5	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	8.7	9.7	6.3	9.2	10.2	1.4	0.0	5.4	1.4	0.0	1.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	43.8	24.7	25.9	36.2	15.5	16.0	29.3	0.0	30.0	38.2	0.0	25.8
LnGrp LOS	D	C	C	D	B	B	C	A	C	D	A	C
Approach Vol, veh/h		1714			2674			394			186	
Approach Delay, s/veh		25.5			18.2			29.9			30.5	
Approach LOS		C			B			C			C	

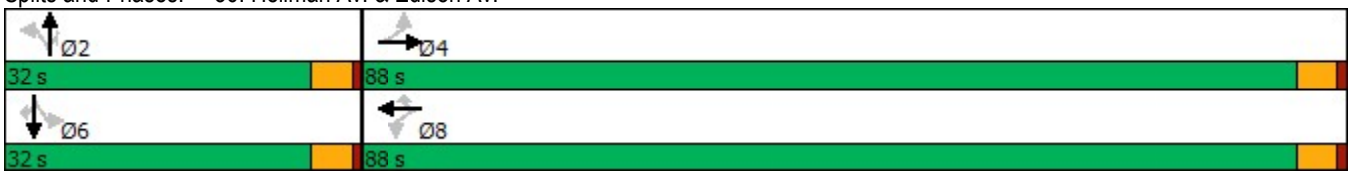
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		25.6	21.9	37.5		25.6	7.6	51.8				
Change Period (Y+Rc), s		4.6	4.6	4.6		4.6	4.6	4.6				
Max Green Setting (Gmax), s		30.4	30.4	45.4		30.4	6.8	69.0				
Max Q Clear Time (g_c+I1), s		15.6	16.9	26.0		20.7	3.8	31.7				
Green Ext Time (p_c), s		1.0	0.4	6.9		0.3	0.0	14.6				

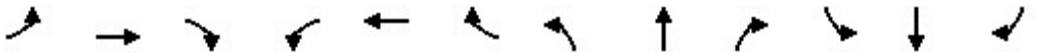
Intersection Summary	
HCM 6th Ctrl Delay	22.1
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	37	1605	318	2094	42	82	182	139	64	92	14
Future Volume (vph)	37	1605	318	2094	42	82	182	139	64	92	14
Turn Type	Perm	NA	Perm	NA	Perm	Perm	NA	Perm	Perm	NA	Perm
Protected Phases		4		8			2			6	
Permitted Phases	4		8		8	2		2	6		6
Detector Phase	4	4	8	8	8	2	2	2	6	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
Total Split (s)	88.0	88.0	88.0	88.0	88.0	32.0	32.0	32.0	32.0	32.0	32.0
Total Split (%)	73.3%	73.3%	73.3%	73.3%	73.3%	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Lead/Lag											
Lead-Lag Optimize?											
Recall Mode	None	None	None	None	None	Min	Min	Min	Min	Min	Min
Act Effct Green (s)	83.5	83.5	83.5	83.5	83.5	15.7	15.7	15.7	15.7	15.7	15.7
Actuated g/C Ratio	0.77	0.77	0.77	0.77	0.77	0.14	0.14	0.14	0.14	0.14	0.14
v/c Ratio	0.57	0.65	2.60	0.82	0.04	0.49	0.72	0.57	0.71	0.36	0.06
Control Delay	45.1	7.8	759.8	12.0	1.5	52.0	59.1	40.6	80.8	45.1	17.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.1	7.8	759.8	12.0	1.5	52.0	59.1	40.6	80.8	45.1	17.8
LOS	D	A	F	B	A	D	E	D	F	D	B
Approach Delay		8.6		108.8			51.3			56.4	
Approach LOS		A		F			D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 108.5	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.60	
Intersection Signal Delay: 65.9	Intersection LOS: E
Intersection Capacity Utilization 93.0%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 36: Hellman Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	37	1605	61	318	2094	42	82	182	139	64	92	14
Future Volume (veh/h)	37	1605	61	318	2094	42	82	182	139	64	92	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	40	1745	66	346	2276	46	89	198	151	70	100	15
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	114	2627	99	199	2673	1192	245	338	286	155	338	286
Arrive On Green	0.74	0.74	0.74	0.74	0.74	0.74	0.18	0.18	0.18	0.18	0.18	0.18
Sat Flow, veh/h	168	3547	134	278	3610	1610	1370	1900	1610	1106	1900	1610
Grp Volume(v), veh/h	40	884	927	346	2276	46	89	198	151	70	100	15
Grp Sat Flow(s),veh/h/ln	168	1805	1876	278	1805	1610	1370	1900	1610	1106	1900	1610
Q Serve(g_s), s	24.7	28.1	28.6	54.8	49.9	0.9	6.8	10.8	9.6	7.0	5.1	0.9
Cycle Q Clear(g_c), s	74.6	28.1	28.6	83.4	49.9	0.9	11.9	10.8	9.6	17.8	5.1	0.9
Prop In Lane	1.00		0.07	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	114	1336	1389	199	2673	1192	245	338	286	155	338	286
V/C Ratio(X)	0.35	0.66	0.67	1.74	0.85	0.04	0.36	0.59	0.53	0.45	0.30	0.05
Avail Cap(c_a), veh/h	114	1336	1389	199	2673	1192	335	462	392	227	462	392
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.5	7.4	7.5	37.7	10.3	3.9	45.4	42.5	42.0	50.6	40.2	38.4
Incr Delay (d2), s/veh	0.7	1.0	1.0	352.2	2.7	0.0	0.3	0.6	0.6	0.8	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	7.9	8.3	24.9	14.4	0.2	2.3	5.1	3.8	2.0	2.4	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	37.2	8.4	8.5	389.9	13.0	3.9	45.7	43.1	42.6	51.4	40.4	38.4
LnGrp LOS	D	A	A	F	B	A	D	D	D	D	D	D
Approach Vol, veh/h		1851			2668			438			185	
Approach Delay, s/veh		9.1			61.7			43.4			44.4	
Approach LOS		A			E			D			D	

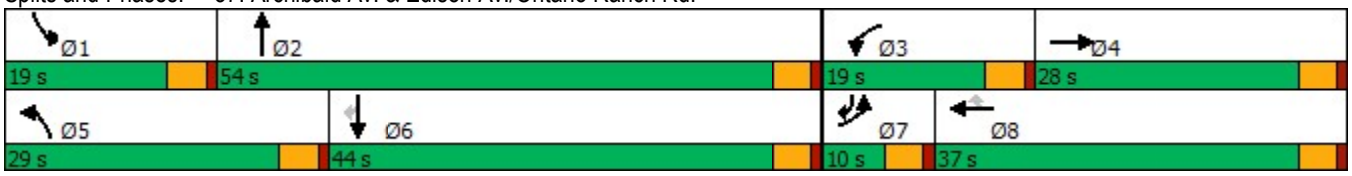
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		24.6		88.0		24.6		88.0				
Change Period (Y+Rc), s		4.6		4.6		4.6		4.6				
Max Green Setting (Gmax), s		27.4		83.4		27.4		83.4				
Max Q Clear Time (g_c+I1), s		13.9		76.6		19.8		85.4				
Green Ext Time (p_c), s		1.0		4.6		0.3		0.0				

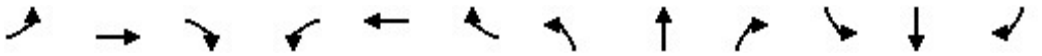
Intersection Summary												
HCM 6th Ctrl Delay			40.6									
HCM 6th LOS			D									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	98	672	194	603	1175	132	496	1386	933	169	957	281
Future Volume (vph)	98	672	194	603	1175	132	496	1386	933	169	957	281
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2		1	6	7
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	9.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	10.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	8.3%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	None
Act Effct Green (s)	5.6	20.7	105.1	14.7	29.8	29.8	22.2	40.0	105.1	11.5	29.2	34.8
Actuated g/C Ratio	0.05	0.20	1.00	0.14	0.28	0.28	0.21	0.38	1.00	0.11	0.28	0.33
v/c Ratio	0.67	0.52	0.14	1.56	0.74	0.27	0.82	0.74	0.68	0.55	0.70	0.52
Control Delay	72.7	40.0	0.2	294.3	37.8	6.8	52.2	30.8	2.5	52.6	37.0	17.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	72.7	40.0	0.2	294.3	37.8	6.8	52.2	30.8	2.5	52.6	37.0	17.3
LOS	E	D	A	F	D	A	D	C	A	D	D	B
Approach Delay		35.3			116.7			25.2			35.0	
Approach LOS		D			F			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 105.1	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.56	
Intersection Signal Delay: 53.1	Intersection LOS: D
Intersection Capacity Utilization 81.0%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	98	672	194	603	1175	132	496	1386	933	169	957	281
Future Volume (veh/h)	98	672	194	603	1175	132	496	1386	933	169	957	281
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	108	738	0	663	1291	122	545	1523	0	186	1052	298
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	160	1304		465	1739	423	630	2138		255	1493	496
Arrive On Green	0.05	0.18	0.00	0.15	0.28	0.28	0.20	0.40	0.00	0.08	0.28	0.28
Sat Flow, veh/h	3048	7200	1525	3048	6192	1506	3141	5400	1525	3141	5400	1505
Grp Volume(v), veh/h	108	738	0	663	1291	122	545	1523	0	186	1052	298
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1548	1506	1570	1800	1525	1570	1800	1505
Q Serve(g_s), s	3.3	8.9	0.0	14.5	18.0	6.0	16.0	22.6	0.0	5.5	16.6	15.8
Cycle Q Clear(g_c), s	3.3	8.9	0.0	14.5	18.0	6.0	16.0	22.6	0.0	5.5	16.6	15.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	160	1304		465	1739	423	630	2138		255	1493	496
V/C Ratio(X)	0.67	0.57		1.43	0.74	0.29	0.86	0.71		0.73	0.70	0.60
Avail Cap(c_a), veh/h	176	1779		465	2116	515	809	2811		479	2243	705
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	44.2	35.5	0.0	40.3	31.1	26.8	36.8	24.2	0.0	42.7	30.9	26.7
Incr Delay (d2), s/veh	8.6	0.4	0.0	204.3	1.1	0.4	7.9	0.6	0.0	3.9	0.6	1.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.4	3.7	0.0	18.3	6.3	2.1	6.3	8.6	0.0	2.1	6.7	5.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	52.8	35.9	0.0	244.6	32.2	27.1	44.7	24.8	0.0	46.6	31.5	27.8
LnGrp LOS	D	D		F	C	C	D	C		D	C	C
Approach Vol, veh/h		846	A		2076			2068	A		1536	
Approach Delay, s/veh		38.1			99.7			30.0			32.6	
Approach LOS		D			F			C			C	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.2	42.1	19.0	21.7	23.6	30.8	9.5	31.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	7.5	24.6	16.5	10.9	18.0	18.6	5.3	20.0
Green Ext Time (p_c), s	0.3	11.0	0.0	3.6	1.1	7.7	0.0	6.7

Intersection Summary	
HCM 6th Ctrl Delay	53.9
HCM 6th LOS	D

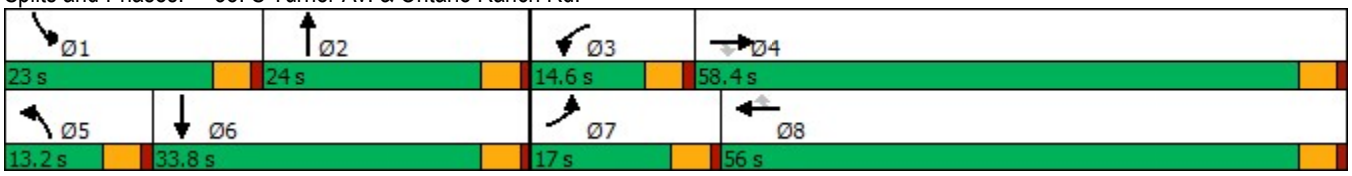
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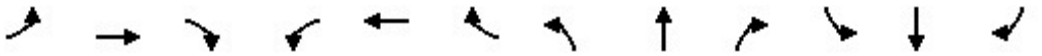
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	141	1564	18	63	1894	50	44	157	215	86
Future Volume (vph)	141	1564	18	63	1894	50	44	157	215	86
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	17.0	58.4	58.4	14.6	56.0	56.0	13.2	24.0	23.0	33.8
Total Split (%)	14.2%	48.7%	48.7%	12.2%	46.7%	46.7%	11.0%	20.0%	19.2%	28.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	12.2	57.1	57.1	8.9	51.5	51.5	7.7	17.2	17.7	29.3
Actuated g/C Ratio	0.10	0.49	0.49	0.08	0.44	0.44	0.07	0.15	0.15	0.25
v/c Ratio	0.84	0.68	0.02	0.51	0.92	0.07	0.41	0.79	0.87	0.51
Control Delay	86.1	26.1	0.1	66.1	38.8	0.2	63.9	66.8	79.1	32.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	86.1	26.1	0.1	66.1	38.8	0.2	63.9	66.8	79.1	32.9
LOS	F	C	A	E	D	A	E	E	E	C
Approach Delay		30.7			38.7			66.2		55.7
Approach LOS		C			D			E		E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.6	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.92	
Intersection Signal Delay: 38.8	Intersection LOS: D
Intersection Capacity Utilization 82.1%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	141	1564	18	63	1894	50	44	157	41	215	86	136
Future Volume (veh/h)	141	1564	18	63	1894	50	44	157	41	215	86	136
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	157	1738	20	70	2104	56	49	174	46	239	96	151
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	186	2604	808	90	2331	724	64	201	53	269	168	264
Arrive On Green	0.10	0.50	0.50	0.05	0.45	0.45	0.04	0.14	0.14	0.15	0.25	0.25
Sat Flow, veh/h	1810	5187	1610	1810	5187	1610	1810	1448	383	1810	665	1046
Grp Volume(v), veh/h	157	1738	20	70	2104	56	49	0	220	239	0	247
Grp Sat Flow(s),veh/h/ln	1810	1729	1610	1810	1729	1610	1810	0	1831	1810	0	1712
Q Serve(g_s), s	9.6	28.1	0.7	4.3	42.1	2.2	3.0	0.0	13.2	14.5	0.0	14.1
Cycle Q Clear(g_c), s	9.6	28.1	0.7	4.3	42.1	2.2	3.0	0.0	13.2	14.5	0.0	14.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.21	1.00		0.61
Lane Grp Cap(c), veh/h	186	2604	808	90	2331	724	64	0	254	269	0	432
V/C Ratio(X)	0.85	0.67	0.02	0.77	0.90	0.08	0.77	0.00	0.86	0.89	0.00	0.57
Avail Cap(c_a), veh/h	202	2604	808	163	2382	739	140	0	318	298	0	447
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	49.5	20.9	14.1	52.6	28.6	17.6	53.7	0.0	47.3	46.8	0.0	36.6
Incr Delay (d2), s/veh	25.4	0.7	0.0	13.0	5.2	0.0	17.6	0.0	18.0	24.7	0.0	1.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.5	10.6	0.2	2.2	17.2	0.8	1.6	0.0	7.1	8.2	0.0	5.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	74.8	21.6	14.1	65.7	33.8	17.7	71.3	0.0	65.3	71.6	0.0	38.3
LnGrp LOS	E	C	B	E	C	B	E	A	E	E	A	D
Approach Vol, veh/h		1915			2230			269			486	
Approach Delay, s/veh		25.9			34.4			66.4			54.7	
Approach LOS		C			C			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.2	20.1	10.1	60.8	8.4	32.8	16.0	54.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.5	19.5	10.1	53.9	8.7	29.3	12.5	51.5
Max Q Clear Time (g_c+I1), s	16.5	15.2	6.3	30.1	5.0	16.1	11.6	44.1
Green Ext Time (p_c), s	0.1	0.4	0.0	13.4	0.0	1.0	0.0	6.3

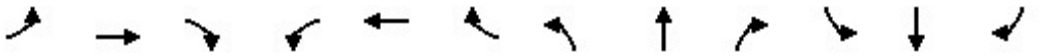
Intersection Summary	
HCM 6th Ctrl Delay	34.8
HCM 6th LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	253	1605	51	107	1369	183	101	350	175	446	437	217
Future Volume (vph)	253	1605	51	107	1369	183	101	350	175	446	437	217
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	24.7	47.4	47.4	9.9	32.6	32.6	20.7	23.3	23.3	39.4	42.0	42.0
Total Split (%)	20.6%	39.5%	39.5%	8.3%	27.2%	27.2%	17.3%	19.4%	19.4%	32.8%	35.0%	35.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	20.2	42.9	42.9	5.4	28.1	28.1	12.8	17.1	17.1	34.9	39.3	39.3
Actuated g/C Ratio	0.17	0.36	0.36	0.05	0.24	0.24	0.11	0.14	0.14	0.29	0.33	0.33
v/c Ratio	0.99	0.97	0.09	0.86	1.00	0.38	0.63	0.76	0.51	1.01	0.41	0.36
Control Delay	101.6	52.7	0.3	103.8	69.2	7.5	66.3	59.3	13.1	85.8	32.5	5.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	101.6	52.7	0.3	103.8	69.2	7.5	66.3	59.3	13.1	85.8	32.5	5.5
LOS	F	D	A	F	E	A	E	E	B	F	C	A
Approach Delay		57.8			64.6			47.5			48.8	
Approach LOS		E			E			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.01	
Intersection Signal Delay: 56.8	Intersection LOS: E
Intersection Capacity Utilization 89.9%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	253	1605	51	107	1369	183	101	350	175	446	437	217
Future Volume (veh/h)	253	1605	51	107	1369	183	101	350	175	446	437	217
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	272	1726	33	115	1472	122	109	376	102	480	470	125
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	280	1803	559	137	1488	367	133	460	205	483	1201	533
Arrive On Green	0.17	0.37	0.37	0.05	0.24	0.24	0.08	0.13	0.13	0.30	0.35	0.35
Sat Flow, veh/h	1619	4914	1524	2956	6192	1525	1619	3420	1522	1619	3420	1519
Grp Volume(v), veh/h	272	1726	33	115	1472	122	109	376	102	480	470	125
Grp Sat Flow(s),veh/h/ln	1619	1638	1524	1478	1548	1525	1619	1710	1522	1619	1710	1519
Q Serve(g_s), s	19.5	40.1	1.6	4.5	27.7	7.7	7.8	12.5	7.3	34.6	12.1	6.8
Cycle Q Clear(g_c), s	19.5	40.1	1.6	4.5	27.7	7.7	7.8	12.5	7.3	34.6	12.1	6.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	280	1803	559	137	1488	367	133	460	205	483	1201	533
V/C Ratio(X)	0.97	0.96	0.06	0.84	0.99	0.33	0.82	0.82	0.50	0.99	0.39	0.23
Avail Cap(c_a), veh/h	280	1803	559	137	1488	367	224	550	245	483	1201	533
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.1	36.1	24.0	55.3	44.3	36.7	52.8	49.2	46.9	40.9	28.5	26.8
Incr Delay (d2), s/veh	46.1	12.6	0.0	35.4	20.7	0.5	11.8	8.0	1.9	39.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.1	17.0	0.6	2.3	12.1	2.8	3.5	5.7	2.7	18.4	4.8	2.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	94.2	48.8	24.0	90.8	65.0	37.2	64.7	57.2	48.8	80.0	28.7	27.0
LnGrp LOS	F	D	C	F	E	D	E	E	D	F	C	C
Approach Vol, veh/h		2031			1709			587			1075	
Approach Delay, s/veh		54.5			64.8			57.1			51.5	
Approach LOS		D			E			E			D	

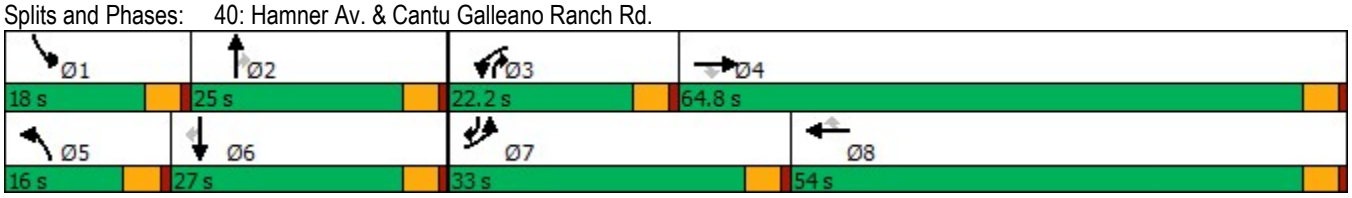
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	39.4	20.2	9.9	47.4	14.1	45.6	24.7	32.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	34.9	18.8	5.4	42.9	16.2	37.5	20.2	28.1
Max Q Clear Time (g_c+I1), s	36.6	14.5	6.5	42.1	9.8	14.1	21.5	29.7
Green Ext Time (p_c), s	0.0	1.0	0.0	0.7	0.1	3.2	0.0	0.0

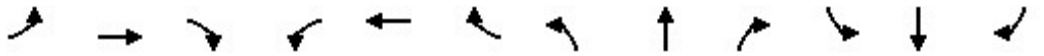
Intersection Summary	
HCM 6th Ctrl Delay	57.4
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	835	1637	101	291	1504	379	309	794	376	377	225	511
Future Volume (vph)	835	1637	101	291	1504	379	309	794	376	377	225	511
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	33.0	64.8	64.8	22.2	54.0	54.0	16.0	25.0	22.2	18.0	27.0	33.0
Total Split (%)	25.4%	49.8%	49.8%	17.1%	41.5%	41.5%	12.3%	19.2%	17.1%	13.8%	20.8%	25.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	28.6	53.3	53.3	14.9	39.6	39.6	11.5	20.3	39.7	13.6	22.3	55.4
Actuated g/C Ratio	0.24	0.44	0.44	0.12	0.33	0.33	0.10	0.17	0.33	0.11	0.19	0.46
v/c Ratio	1.01	0.51	0.14	0.68	0.63	0.58	0.93	0.86	0.66	0.97	0.22	0.69
Control Delay	79.6	24.6	4.1	59.0	34.9	16.7	88.0	59.2	33.0	90.6	43.3	29.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	79.6	24.6	4.1	59.0	34.9	16.7	88.0	59.2	33.0	90.6	43.3	29.9
LOS	E	C	A	E	C	B	F	E	C	F	D	C
Approach Delay		41.7			35.0			58.6			53.2	
Approach LOS		D			C			E			D	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 120.1	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.01	
Intersection Signal Delay: 44.8	Intersection LOS: D
Intersection Capacity Utilization 86.7%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	835	1637	101	291	1504	379	309	794	376	377	225	511
Future Volume (veh/h)	835	1637	101	291	1504	379	309	794	376	377	225	511
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	870	1705	49	303	1567	329	322	827	309	393	234	491
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	884	3427	726	374	2358	499	357	1001	449	419	1099	704
Arrive On Green	0.24	0.45	0.45	0.10	0.31	0.31	0.10	0.18	0.18	0.12	0.19	0.19
Sat Flow, veh/h	3619	7600	1610	3619	7600	1610	3619	5700	1610	3619	5700	1610
Grp Volume(v), veh/h	870	1705	49	303	1567	329	322	827	309	393	234	491
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1810	1900	1610	1810	1900	1610
Q Serve(g_s), s	27.9	18.5	2.0	9.6	20.9	20.7	10.3	16.3	20.0	12.6	4.0	22.5
Cycle Q Clear(g_c), s	27.9	18.5	2.0	9.6	20.9	20.7	10.3	16.3	20.0	12.6	4.0	22.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	884	3427	726	374	2358	499	357	1001	449	419	1099	704
V/C Ratio(X)	0.98	0.50	0.07	0.81	0.66	0.66	0.90	0.83	0.69	0.94	0.21	0.70
Avail Cap(c_a), veh/h	884	3927	832	549	3224	683	357	1001	449	419	1099	704
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.9	22.7	18.1	51.2	35.0	34.9	52.0	46.4	37.5	51.2	39.6	26.6
Incr Delay (d2), s/veh	26.4	0.1	0.0	5.7	0.3	1.5	25.2	5.8	4.4	29.0	0.1	3.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.0	7.6	0.7	4.4	9.1	7.8	5.7	7.9	7.9	7.2	1.8	10.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	70.2	22.8	18.2	56.9	35.3	36.4	77.3	52.2	41.9	80.2	39.7	29.6
LnGrp LOS	E	C	B	E	D	D	E	D	D	F	D	C
Approach Vol, veh/h		2624			2199			1458			1118	
Approach Delay, s/veh		38.4			38.4			55.5			49.5	
Approach LOS		D			D			E			D	

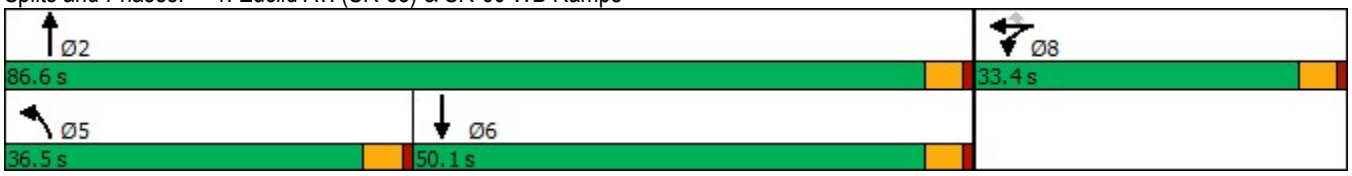
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.0	25.0	16.6	57.1	16.0	27.0	33.0	40.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	20.5	17.7	60.3	11.5	22.5	28.5	49.5
Max Q Clear Time (g_c+I1), s	14.6	22.0	11.6	20.5	12.3	24.5	29.9	22.9
Green Ext Time (p_c), s	0.0	0.0	0.5	15.8	0.0	0.0	0.0	13.3

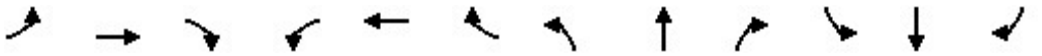
Intersection Summary	
HCM 6th Ctrl Delay	43.5
HCM 6th LOS	D

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT
Lane Configurations						
Traffic Volume (vph)	845	7	421	1000	1389	1710
Future Volume (vph)	845	7	421	1000	1389	1710
Turn Type	Split	NA	Perm	Prot	NA	NA
Protected Phases	8	8		5	2	6
Permitted Phases			8			
Detector Phase	8	8	8	5	2	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	33.4	33.4	33.4	36.5	86.6	50.1
Total Split (%)	27.8%	27.8%	27.8%	30.4%	72.2%	41.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag
Lead-Lag Optimize?				Yes		Yes
Recall Mode	None	None	None	None	Min	Min
Act Effct Green (s)	28.9	28.9	28.9	32.0	82.1	45.6
Actuated g/C Ratio	0.24	0.24	0.24	0.27	0.68	0.38
v/c Ratio	1.05	1.05	0.92	1.06	0.36	1.07
Control Delay	102.0	100.4	64.7	88.8	8.3	77.1
Queue Delay	0.0	0.0	0.0	0.8	0.5	0.0
Total Delay	102.0	100.4	64.7	89.7	8.7	77.1
LOS	F	F	E	F	A	E
Approach Delay		90.4			42.6	77.1
Approach LOS		F			D	E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.07	
Intersection Signal Delay: 66.0	Intersection LOS: E
Intersection Capacity Utilization 146.7%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	845	7	421	1000	1389	0	0	1710	532
Future Volume (veh/h)	0	0	0	845	7	421	1000	1389	0	0	1710	532
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				932	0	146	1020	1417	0	0	1745	288
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				872	0	388	966	3898	0	0	1813	297
Arrive On Green				0.36	0.00	0.36	0.40	1.00	0.00	0.00	0.57	0.57
Sat Flow, veh/h				3619	0	1610	3619	5700	0	0	4778	781
Grp Volume(v), veh/h				932	0	146	1020	1417	0	0	1385	648
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1900	0	0	1900	1759
Q Serve(g_s), s				28.9	0.0	8.0	32.0	0.0	0.0	0.0	41.5	42.6
Cycle Q Clear(g_c), s				28.9	0.0	8.0	32.0	0.0	0.0	0.0	41.5	42.6
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.44
Lane Grp Cap(c), veh/h				872	0	388	966	3898	0	0	1442	668
V/C Ratio(X)				1.07	0.00	0.38	1.06	0.36	0.00	0.00	0.96	0.97
Avail Cap(c_a), veh/h				872	0	388	966	3903	0	0	1445	669
HCM Platoon Ratio				1.50	1.50	1.50	1.50	1.50	1.00	1.00	1.50	1.50
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				38.3	0.0	31.6	36.0	0.0	0.0	0.0	25.0	25.2
Incr Delay (d2), s/veh				50.5	0.0	0.6	44.9	0.1	0.0	0.0	15.2	27.6
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				17.0	0.0	3.0	18.1	0.0	0.0	0.0	17.3	18.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				88.8	0.0	32.2	80.9	0.1	0.0	0.0	40.1	52.8
LnGrp LOS				F	A	C	F	A	A	A	D	D
Approach Vol, veh/h					1078			2437			2033	
Approach Delay, s/veh					81.1			33.9			44.2	
Approach LOS					F			C			D	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	86.5		36.5	50.0		33.4						
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5						
Max Green Setting (Gmax), s	82.1		32.0	45.6		28.9						
Max Q Clear Time (g_c+I1), s	2.0		34.0	44.6		30.9						
Green Ext Time (p_c), s	14.6		0.0	0.9		0.0						

Intersection Summary		
HCM 6th Ctrl Delay		46.8
HCM 6th LOS		D

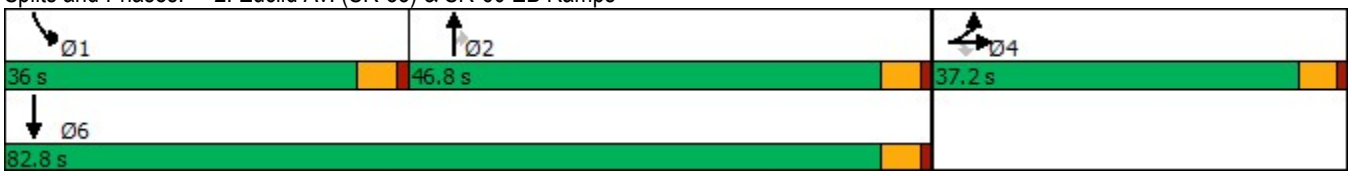
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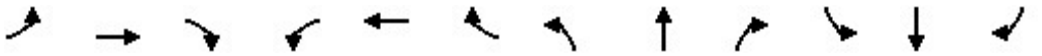
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Configurations							
Traffic Volume (vph)	335	6	591	1756	748	409	1895
Future Volume (vph)	335	6	591	1756	748	409	1895
Turn Type	Split	NA	Perm	NA	Perm	Prot	NA
Protected Phases	4	4		2		1	6
Permitted Phases			4		2		
Detector Phase	4	4	4	2	2	1	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lag	Lag	Lead	
Lead-Lag Optimize?				Yes	Yes	Yes	
Recall Mode	None	None	None	Min	Min	None	Min
Act Effct Green (s)	27.8	27.8	27.8	47.9	47.9	18.7	71.2
Actuated g/C Ratio	0.26	0.26	0.26	0.44	0.44	0.17	0.66
v/c Ratio	0.71	0.83	0.75	1.14	0.84	0.70	0.83
Control Delay	47.3	55.5	43.0	102.9	22.7	49.9	18.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Total Delay	47.3	55.5	43.0	102.9	22.7	49.9	22.3
LOS	D	E	D	F	C	D	C
Approach Delay		48.7		79.0			27.2
Approach LOS		D		E			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 108.2	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.14	
Intersection Signal Delay: 53.2	Intersection LOS: D
Intersection Capacity Utilization 139.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	335	6	591	0	0	0	0	1756	748	409	1895	0
Future Volume (veh/h)	335	6	591	0	0	0	0	1756	748	409	1895	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	235	0	669				0	1829	652	426	1974	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	447	0	796				0	1667	732	534	2383	0
Arrive On Green	0.25	0.00	0.25				0.00	0.46	0.46	0.15	0.66	0.00
Sat Flow, veh/h	1810	0	3220				0	3705	1586	3510	3705	0
Grp Volume(v), veh/h	235	0	669				0	1829	652	426	1974	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1586	1755	1805	0
Q Serve(g_s), s	10.9	0.0	19.1				0.0	44.8	36.5	11.4	39.8	0.0
Cycle Q Clear(g_c), s	10.9	0.0	19.1				0.0	44.8	36.5	11.4	39.8	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	447	0	796				0	1667	732	534	2383	0
V/C Ratio(X)	0.53	0.00	0.84				0.00	1.10	0.89	0.80	0.83	0.00
Avail Cap(c_a), veh/h	610	0	1086				0	1667	732	1140	2914	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	31.6	0.0	34.7				0.0	26.1	23.9	39.7	12.4	0.0
Incr Delay (d2), s/veh	1.0	0.0	4.5				0.0	53.8	13.1	2.8	1.8	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.6	0.0	7.6				0.0	29.8	15.0	4.9	13.3	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	32.5	0.0	39.2				0.0	79.9	36.9	42.5	14.1	0.0
LnGrp LOS	C	A	D				A	F	D	D	B	A
Approach Vol, veh/h		904						2481			2400	
Approach Delay, s/veh		37.4						68.6			19.2	
Approach LOS		D						E			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	19.2	49.3		28.5		68.5
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	13.4	46.8		21.1		41.8
Green Ext Time (p_c), s	1.4	0.0		2.8		22.2

Intersection Summary	
HCM 6th Ctrl Delay	43.2
HCM 6th LOS	D

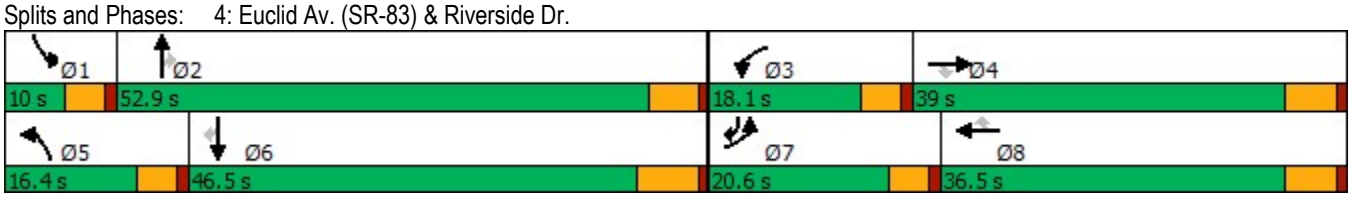
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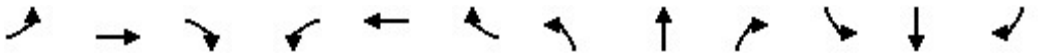
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	158	973	164	185	697	83	294	1991	439	125	1510	429
Future Volume (vph)	158	973	164	185	697	83	294	1991	439	125	1510	429
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2		1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	20.6	39.0	39.0	18.1	36.5	36.5	16.4	52.9	52.9	10.0	46.5	20.6
Total Split (%)	17.2%	32.5%	32.5%	15.1%	30.4%	30.4%	13.7%	44.1%	44.1%	8.3%	38.8%	17.2%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	14.5	33.2	33.2	13.5	32.2	32.2	11.8	47.5	47.5	5.4	40.0	61.0
Actuated g/C Ratio	0.12	0.28	0.28	0.11	0.27	0.27	0.10	0.40	0.40	0.04	0.33	0.51
v/c Ratio	0.82	1.04	0.31	1.03	0.77	0.16	0.96	1.03	0.56	0.90	0.93	0.52
Control Delay	82.3	82.4	7.7	128.0	47.4	0.7	97.1	65.7	11.3	110.4	49.9	16.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	82.3	82.4	7.7	128.0	47.4	0.7	97.1	65.7	11.3	110.4	49.9	16.6
LOS	F	F	A	F	D	A	F	E	B	F	D	B
Approach Delay		72.9			58.8			60.3			46.7	
Approach LOS		E			E			E			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.04	
Intersection Signal Delay: 58.4	Intersection LOS: E
Intersection Capacity Utilization 101.6%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	158	973	164	185	697	83	294	1991	439	125	1510	429
Future Volume (veh/h)	158	973	164	185	697	83	294	1991	439	125	1510	429
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	160	983	115	187	704	45	297	2011	241	126	1525	231
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	184	938	418	180	931	408	306	1927	598	140	1668	691
Arrive On Green	0.11	0.27	0.27	0.11	0.27	0.27	0.10	0.39	0.39	0.04	0.34	0.34
Sat Flow, veh/h	1619	3420	1525	1619	3420	1500	3141	4914	1525	3141	4914	1525
Grp Volume(v), veh/h	160	983	115	187	704	45	297	2011	241	126	1525	231
Grp Sat Flow(s),veh/h/ln	1619	1710	1525	1619	1710	1500	1570	1638	1525	1570	1638	1525
Q Serve(g_s), s	11.8	33.2	7.2	13.5	22.8	2.7	11.4	47.5	13.8	4.8	36.0	11.8
Cycle Q Clear(g_c), s	11.8	33.2	7.2	13.5	22.8	2.7	11.4	47.5	13.8	4.8	36.0	11.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	184	938	418	180	931	408	306	1927	598	140	1668	691
V/C Ratio(X)	0.87	1.05	0.27	1.04	0.76	0.11	0.97	1.04	0.40	0.90	0.91	0.33
Avail Cap(c_a), veh/h	214	938	418	180	931	408	306	1927	598	140	1668	691
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.8	43.9	34.5	53.8	40.4	33.1	54.5	36.8	26.6	57.6	38.3	21.4
Incr Delay (d2), s/veh	24.7	42.9	0.4	76.8	3.6	0.1	43.1	32.9	0.4	46.4	8.2	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.9	19.1	2.6	9.2	9.7	1.0	6.2	23.2	4.9	2.8	15.2	4.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.5	86.8	34.9	130.6	44.0	33.2	97.5	69.7	27.0	103.9	46.5	21.6
LnGrp LOS	E	F	C	F	D	C	F	F	C	F	D	C
Approach Vol, veh/h		1258			936			2549			1882	
Approach Delay, s/veh		80.9			60.8			68.9			47.3	
Approach LOS		F			E			E			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	54.0	18.1	39.0	16.4	47.6	18.4	38.7
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	5.4	* 48	13.5	33.2	11.8	40.0	16.0	30.7
Max Q Clear Time (g_c+I1), s	6.8	49.5	15.5	35.2	13.4	38.0	13.8	24.8
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	1.7	0.0	2.2

Intersection Summary	
HCM 6th Ctrl Delay	63.9
HCM 6th LOS	E

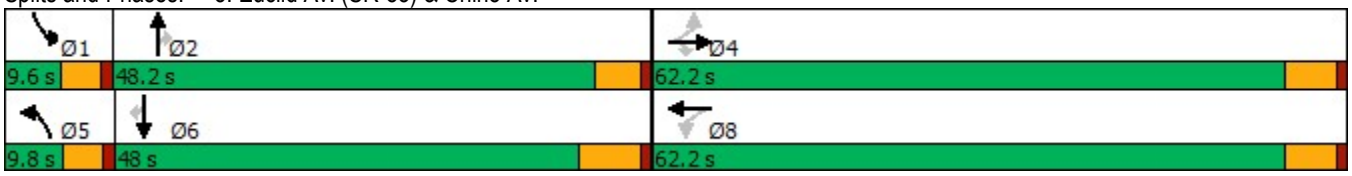
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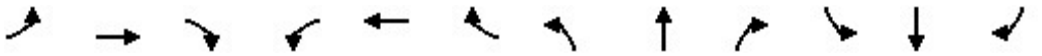
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	153	684	91	165	406	79	2215	262	111	1561	181
Future Volume (vph)	153	684	91	165	406	79	2215	262	111	1561	181
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	62.2	62.2	62.2	62.2	62.2	9.8	48.2	48.2	9.6	48.0	48.0
Total Split (%)	51.8%	51.8%	51.8%	51.8%	51.8%	8.2%	40.2%	40.2%	8.0%	40.0%	40.0%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8	5.8	5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	56.4	56.4	56.4	56.4	56.4	5.2	43.0	43.0	5.0	43.5	43.5
Actuated g/C Ratio	0.47	0.47	0.47	0.47	0.47	0.04	0.36	0.36	0.04	0.36	0.36
v/c Ratio	0.71	0.83	0.12	1.47	0.66	0.58	1.18	0.46	0.85	0.82	0.28
Control Delay	45.7	38.1	5.2	278.6	28.4	73.3	122.3	24.7	103.0	39.6	6.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.7	38.1	5.2	278.6	28.4	73.3	122.3	24.7	103.0	39.6	6.0
LOS	D	D	A	F	C	E	F	C	F	D	A
Approach Delay		36.1			87.9		110.8			40.1	
Approach LOS		D			F		F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.47	
Intersection Signal Delay: 74.9	Intersection LOS: E
Intersection Capacity Utilization 115.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	153	684	91	165	406	122	79	2215	262	111	1561	181
Future Volume (veh/h)	153	684	91	165	406	122	79	2215	262	111	1561	181
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	158	705	53	170	419	85	81	2284	136	114	1609	94
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	312	837	709	174	675	137	125	1914	541	133	1929	545
Arrive On Green	0.70	0.70	0.70	0.70	0.70	0.70	0.06	0.53	0.53	0.06	0.54	0.54
Sat Flow, veh/h	813	1800	1525	642	1452	295	3238	5400	1525	3238	5400	1525
Grp Volume(v), veh/h	158	705	53	170	0	504	81	2284	136	114	1609	94
Grp Sat Flow(s),veh/h/ln	813	1800	1525	642	0	1747	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	17.7	34.8	1.3	21.6	0.0	18.7	3.0	43.0	5.8	4.2	30.3	3.8
Cycle Q Clear(g_c), s	36.4	34.8	1.3	56.4	0.0	18.7	3.0	43.0	5.8	4.2	30.3	3.8
Prop In Lane	1.00		1.00	1.00		0.17	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	312	837	709	174	0	812	125	1914	541	133	1929	545
V/C Ratio(X)	0.51	0.84	0.07	0.98	0.00	0.62	0.65	1.19	0.25	0.85	0.83	0.17
Avail Cap(c_a), veh/h	312	837	709	174	0	812	139	1914	541	133	1929	545
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	22.4	15.1	10.0	39.3	0.0	12.6	56.3	28.4	19.7	56.5	25.1	19.0
Incr Delay (d2), s/veh	1.3	7.8	0.0	62.1	0.0	1.5	6.0	92.4	1.1	37.0	4.4	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.9	10.1	0.5	7.8	0.0	5.3	1.3	29.7	2.0	2.3	10.1	1.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	23.7	22.9	10.1	101.4	0.0	14.1	62.4	120.8	20.8	93.5	29.6	19.7
LnGrp LOS	C	C	B	F	A	B	E	F	C	F	C	B
Approach Vol, veh/h		916			674			2501			1817	
Approach Delay, s/veh		22.3			36.1			113.5			33.1	
Approach LOS		C			D			F			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.6	49.5		62.2	9.3	49.8		62.2				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	5.0	* 43		56.4	5.2	41.5		56.4				
Max Q Clear Time (g_c+I1), s	6.2	45.0		38.4	5.0	32.3		58.4				
Green Ext Time (p_c), s	0.0	0.0		5.4	0.0	6.3		0.0				

Intersection Summary			
HCM 6th Ctrl Delay		65.8	
HCM 6th LOS		E	

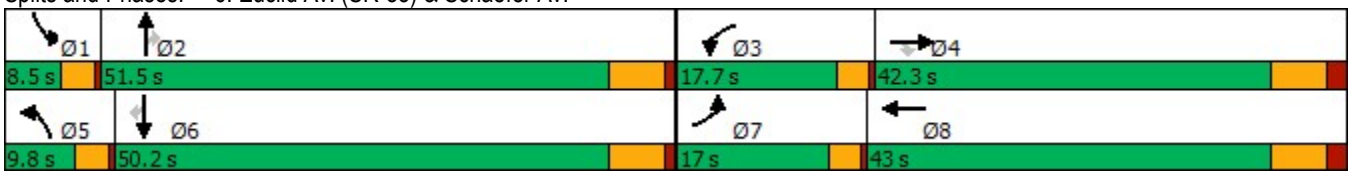
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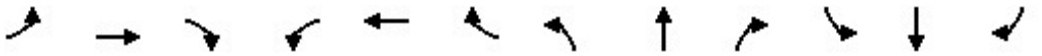
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	404	334	173	172	265	134	1995	65	89	1581	186
Future Volume (vph)	404	334	173	172	265	134	1995	65	89	1581	186
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	17.0	42.3	42.3	17.7	43.0	9.8	51.5	51.5	8.5	50.2	50.2
Total Split (%)	14.2%	35.3%	35.3%	14.8%	35.8%	8.2%	42.9%	42.9%	7.1%	41.8%	41.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	13.5	34.2	34.2	14.1	34.8	6.3	45.5	45.5	5.0	44.2	44.2
Actuated g/C Ratio	0.11	0.29	0.29	0.12	0.29	0.05	0.38	0.38	0.04	0.37	0.37
v/c Ratio	1.17	0.66	0.34	0.93	0.96	0.83	1.09	0.10	0.70	0.89	0.30
Control Delay	148.5	44.4	13.5	100.8	70.0	93.0	86.5	2.0	83.7	42.7	12.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	148.5	44.4	13.5	100.8	70.0	93.0	86.5	2.0	83.7	42.7	12.3
LOS	F	D	B	F	E	F	F	A	F	D	B
Approach Delay		84.7			78.1		84.4			41.6	
Approach LOS		F			E		F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.8	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.17	
Intersection Signal Delay: 69.5	Intersection LOS: E
Intersection Capacity Utilization 103.8%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	404	334	173	172	265	213	134	1995	65	89	1581	186
Future Volume (veh/h)	404	334	173	172	265	213	134	1995	65	89	1581	186
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	416	344	101	177	273	179	138	2057	36	92	1630	110
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	360	504	427	195	290	190	168	1901	590	134	1846	565
Arrive On Green	0.11	0.28	0.28	0.12	0.29	0.29	0.05	0.39	0.39	0.04	0.38	0.38
Sat Flow, veh/h	3141	1800	1525	1619	1014	665	3141	4914	1525	3141	4914	1505
Grp Volume(v), veh/h	416	344	101	177	0	452	138	2057	36	92	1630	110
Grp Sat Flow(s),veh/h/ln	1570	1800	1525	1619	0	1679	1570	1638	1525	1570	1638	1505
Q Serve(g_s), s	13.5	20.0	6.0	12.7	0.0	30.9	5.1	45.5	1.7	3.4	36.5	5.8
Cycle Q Clear(g_c), s	13.5	20.0	6.0	12.7	0.0	30.9	5.1	45.5	1.7	3.4	36.5	5.8
Prop In Lane	1.00		1.00	1.00		0.40	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	360	504	427	195	0	480	168	1901	590	134	1846	565
V/C Ratio(X)	1.15	0.68	0.24	0.91	0.00	0.94	0.82	1.08	0.06	0.69	0.88	0.19
Avail Cap(c_a), veh/h	360	540	458	195	0	514	168	1901	590	134	1846	565
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.1	37.7	32.7	51.1	0.0	41.0	55.1	36.1	22.7	55.6	34.3	24.7
Incr Delay (d2), s/veh	96.3	2.9	0.2	38.4	0.0	24.7	25.0	46.9	0.0	11.8	5.4	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.0	8.9	2.2	7.1	0.0	15.5	2.5	24.8	0.6	1.5	14.3	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	148.4	40.6	32.9	89.4	0.0	65.8	80.1	82.9	22.7	67.4	39.7	24.9
LnGrp LOS	F	D	C	F	A	E	F	F	C	E	D	C
Approach Vol, veh/h		861			629			2231			1832	
Approach Delay, s/veh		91.8			72.4			81.8			40.2	
Approach LOS		F			E			F			D	

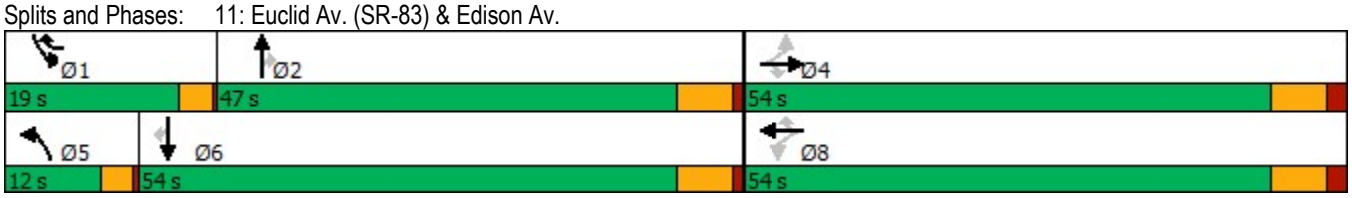
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.5	51.5	17.7	39.9	9.8	50.2	17.0	40.6
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	45.5	14.2	35.3	6.3	44.2	13.5	36.0
Max Q Clear Time (g_c+I1), s	5.4	47.5	14.7	22.0	7.1	38.5	15.5	32.9
Green Ext Time (p_c), s	0.0	0.0	0.0	1.4	0.0	4.3	0.0	0.7

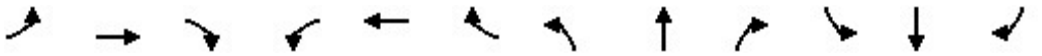
Intersection Summary	
HCM 6th Ctrl Delay	68.6
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	347	1358	236	149	726	318	227	1689	139	284	1214	238
Future Volume (vph)	347	1358	236	149	726	318	227	1689	139	284	1214	238
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	1	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	19.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	15.8%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	47.0	47.0	47.0	47.0	47.0	64.6	8.5	41.0	41.0	14.1	46.6	46.6
Actuated g/C Ratio	0.40	0.40	0.40	0.40	0.40	0.54	0.07	0.35	0.35	0.12	0.39	0.39
v/c Ratio	1.01	0.71	0.34	1.16	0.55	0.39	1.04	1.01	0.24	0.78	0.64	0.38
Control Delay	87.0	32.8	7.8	162.0	29.7	14.0	123.5	64.2	10.8	66.1	31.0	19.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	87.0	32.8	7.8	162.0	29.7	14.0	123.5	64.2	10.8	66.1	31.0	19.1
LOS	F	C	A	F	C	B	F	E	B	E	C	B
Approach Delay		39.4			42.0			67.2			35.1	
Approach LOS		D			D			E			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.6	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.16	
Intersection Signal Delay: 47.0	Intersection LOS: D
Intersection Capacity Utilization 96.2%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	347	1358	236	149	726	318	227	1689	139	284	1214	238
Future Volume (veh/h)	347	1358	236	149	726	318	227	1689	139	284	1214	238
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	354	1386	190	152	741	222	232	1723	91	290	1239	141
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	364	1969	611	218	1370	769	228	1718	526	342	1897	582
Arrive On Green	0.40	0.40	0.40	0.40	0.40	0.40	0.07	0.35	0.35	0.11	0.39	0.39
Sat Flow, veh/h	1028	4914	1525	573	3420	1505	3141	4914	1504	3141	4914	1506
Grp Volume(v), veh/h	354	1386	190	152	741	222	232	1723	91	290	1239	141
Grp Sat Flow(s),veh/h/ln	514	1638	1525	287	1710	1505	1570	1638	1504	1570	1638	1506
Q Serve(g_s), s	27.6	27.6	10.0	19.4	19.4	9.9	8.5	41.0	4.9	10.6	24.3	7.4
Cycle Q Clear(g_c), s	47.0	27.6	10.0	47.0	19.4	9.9	8.5	41.0	4.9	10.6	24.3	7.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	364	1969	611	218	1370	769	228	1718	526	342	1897	582
V/C Ratio(X)	0.97	0.70	0.31	0.70	0.54	0.29	1.02	1.00	0.17	0.85	0.65	0.24
Avail Cap(c_a), veh/h	364	1969	611	218	1370	769	228	1718	526	415	2011	616
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.2	29.3	24.1	52.6	26.9	16.5	54.4	38.1	26.4	51.3	29.6	24.4
Incr Delay (d2), s/veh	39.4	1.2	0.3	9.5	0.4	0.2	64.7	22.4	0.2	11.2	0.7	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	10.5	3.5	2.5	7.6	3.3	5.3	18.7	1.7	4.5	8.9	2.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	88.7	30.5	24.3	62.1	27.3	16.7	119.1	60.6	26.6	62.4	30.3	24.6
LnGrp LOS	F	C	C	E	C	B	F	F	C	E	C	C
Approach Vol, veh/h		1930			1115			2046			1670	
Approach Delay, s/veh		40.6			29.9			65.7			35.4	
Approach LOS		D			C			E			D	

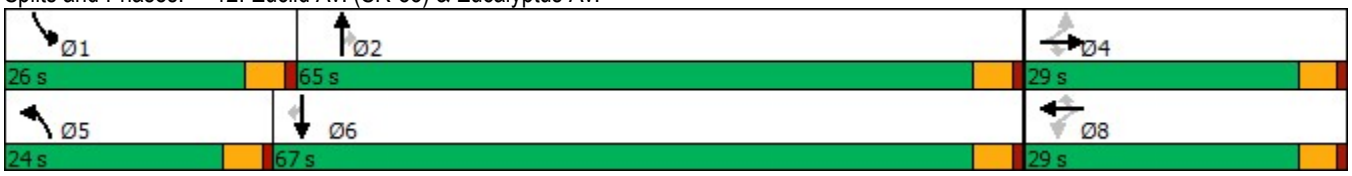
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	16.3	47.0		54.0	12.0	51.3		54.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	12.6	43.0		49.0	10.5	26.3		49.0				
Green Ext Time (p_c), s	0.2	0.0		0.0	0.0	8.6		0.0				

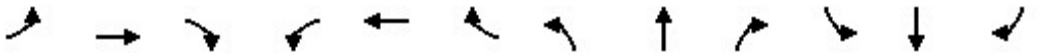
Intersection Summary			
HCM 6th Ctrl Delay		45.1	
HCM 6th LOS		D	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	48	166	234	46	196	298	131	1790	23	151	1859	83
Future Volume (vph)	48	166	234	46	196	298	131	1790	23	151	1859	83
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	29.0	29.0	29.0	29.0	29.0	29.0	24.0	65.0	65.0	26.0	67.0	67.0
Total Split (%)	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	20.0%	54.2%	54.2%	21.7%	55.8%	55.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag							Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?							Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	17.0	17.0	17.0	17.0	17.0	17.0	13.7	48.6	48.6	15.0	49.9	49.9
Actuated g/C Ratio	0.18	0.18	0.18	0.18	0.18	0.18	0.14	0.51	0.51	0.16	0.53	0.53
v/c Ratio	0.38	0.54	0.51	0.16	0.63	0.62	0.58	0.74	0.03	0.62	0.75	0.10
Control Delay	48.2	45.1	9.4	38.5	48.4	13.9	52.9	21.1	0.4	52.2	20.4	3.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	48.2	45.1	9.4	38.5	48.4	13.9	52.9	21.1	0.4	52.2	20.4	3.4
LOS	D	D	A	D	D	B	D	C	A	D	C	A
Approach Delay		26.8			28.6			23.0			22.0	
Approach LOS		C			C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 94.9	
Natural Cycle: 70	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.75	
Intersection Signal Delay: 23.5	Intersection LOS: C
Intersection Capacity Utilization 76.1%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	48	166	234	46	196	298	131	1790	23	151	1859	83
Future Volume (veh/h)	48	166	234	46	196	298	131	1790	23	151	1859	83
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	50	173	149	48	204	307	136	1865	22	157	1936	75
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	183	410	348	429	410	348	167	2495	774	190	2565	796
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23	0.10	0.51	0.51	0.12	0.52	0.52
Sat Flow, veh/h	808	1800	1525	1865	1800	1525	1619	4914	1525	1619	4914	1524
Grp Volume(v), veh/h	50	173	149	48	204	307	136	1865	22	157	1936	75
Grp Sat Flow(s),veh/h/ln	808	1800	1525	933	1800	1525	1619	1638	1525	1619	1638	1524
Q Serve(g_s), s	5.3	7.5	7.7	2.1	9.1	17.9	7.6	27.6	0.7	8.7	28.5	2.3
Cycle Q Clear(g_c), s	14.3	7.5	7.7	9.6	9.1	17.9	7.6	27.6	0.7	8.7	28.5	2.3
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	183	410	348	429	410	348	167	2495	774	190	2565	796
V/C Ratio(X)	0.27	0.42	0.43	0.11	0.50	0.88	0.82	0.75	0.03	0.83	0.75	0.09
Avail Cap(c_a), veh/h	214	480	407	502	480	407	344	3239	1005	379	3346	1038
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.1	30.3	30.3	34.4	30.9	34.2	40.3	17.9	11.3	39.6	17.3	11.0
Incr Delay (d2), s/veh	0.8	0.7	0.8	0.1	0.9	17.9	9.3	0.7	0.0	8.8	0.7	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	3.2	2.7	0.5	3.8	7.9	3.2	8.7	0.2	3.7	8.9	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	37.9	31.0	31.2	34.5	31.8	52.1	49.6	18.6	11.3	48.4	18.0	11.1
LnGrp LOS	D	C	C	C	C	D	D	B	B	D	B	B
Approach Vol, veh/h		372			559			2023			2168	
Approach Delay, s/veh		32.0			43.2			20.6			20.0	
Approach LOS		C			D			C			B	

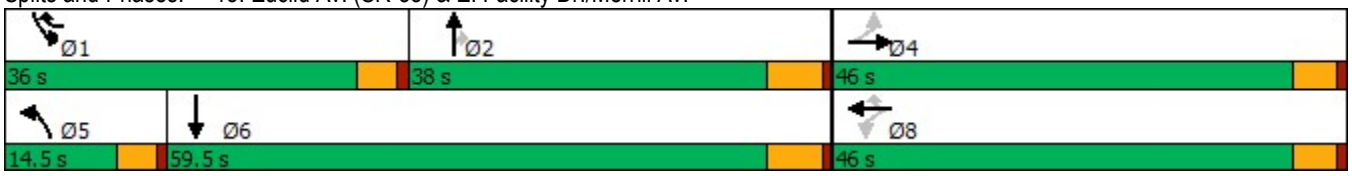
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.3	51.1		25.4	14.0	52.4		25.4				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	21.5	60.5		24.5	19.5	62.5		24.5				
Max Q Clear Time (g_c+I1), s	10.7	29.6		16.3	9.6	30.5		19.9				
Green Ext Time (p_c), s	0.3	16.0		1.1	0.2	17.4		1.1				

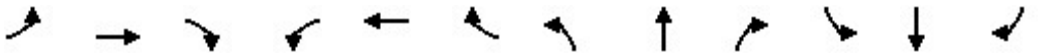
Intersection Summary			
HCM 6th Ctrl Delay		23.6	
HCM 6th LOS		C	

Lane Group	EBL	EBT	WBL	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	4	22	702	637	3	1288	456	418	2010
Future Volume (vph)	4	22	702	637	3	1288	456	418	2010
Turn Type	Perm	NA	Perm	pm+ov	Prot	NA	Perm	Prot	NA
Protected Phases		4		1	5	2		1	6
Permitted Phases	4		8	8			2		
Detector Phase	4	4	8	1	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	10.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	14.5	14.5	28.0	28.0	14.5	28.0
Total Split (s)	46.0	46.0	46.0	36.0	14.5	38.0	38.0	36.0	59.5
Total Split (%)	38.3%	38.3%	38.3%	30.0%	12.1%	31.7%	31.7%	30.0%	49.6%
Yellow Time (s)	4.0	4.0	4.0	3.5	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	4.5	6.0	6.0	4.5	6.0
Lead/Lag				Lead	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?				Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)	37.5	37.5	37.5	74.0	10.0	32.0	32.0	31.5	65.3
Actuated g/C Ratio	0.32	0.32	0.32	0.63	0.09	0.27	0.27	0.27	0.56
v/c Ratio	0.01	0.08	0.94	0.67	0.02	0.98	0.88	0.99	0.76
Control Delay	26.2	17.6	58.6	16.9	51.0	63.5	44.3	83.8	23.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	26.2	17.6	58.6	16.9	51.0	63.5	44.3	83.8	23.5
LOS	C	B	E	B	D	E	D	F	C
Approach Delay		18.3				58.5			33.8
Approach LOS		B				E			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.6	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.99	
Intersection Signal Delay: 42.6	Intersection LOS: D
Intersection Capacity Utilization 94.1%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	22	18	702	0	637	3	1288	456	418	2010	12
Future Volume (veh/h)	4	22	18	702	0	637	3	1288	456	418	2010	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	4	23	11	724	0	348	3	1328	254	431	2072	7
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	371	378	181	889	594	911	13	1333	405	432	2682	9
Arrive On Green	0.33	0.33	0.33	0.33	0.00	0.33	0.01	0.27	0.27	0.27	0.53	0.53
Sat Flow, veh/h	939	1145	548	2424	1800	1525	1619	4914	1493	1619	5056	17
Grp Volume(v), veh/h	4	0	34	724	0	348	3	1328	254	431	1342	737
Grp Sat Flow(s),veh/h/ln	939	0	1693	1212	1800	1525	1619	1638	1493	1619	1638	1797
Q Serve(g_s), s	0.3	0.0	1.6	34.3	0.0	14.0	0.2	31.8	17.6	31.4	38.4	38.5
Cycle Q Clear(g_c), s	0.3	0.0	1.6	36.0	0.0	14.0	0.2	31.8	17.6	31.4	38.4	38.5
Prop In Lane	1.00		0.32	1.00		1.00	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	371	0	559	889	594	911	13	1333	405	432	1738	953
V/C Ratio(X)	0.01	0.00	0.06	0.81	0.00	0.38	0.23	1.00	0.63	1.00	0.77	0.77
Avail Cap(c_a), veh/h	387	0	589	931	626	938	137	1333	405	432	1738	953
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.6	0.0	27.0	39.3	0.0	12.4	58.1	42.9	37.7	43.2	22.0	22.0
Incr Delay (d2), s/veh	0.0	0.0	0.0	4.9	0.0	0.1	3.4	23.6	3.0	42.3	2.2	4.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.7	10.2	0.0	4.3	0.1	15.0	6.4	16.8	13.5	15.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.6	0.0	27.0	44.2	0.0	12.5	61.5	66.5	40.8	85.5	24.2	26.0
LnGrp LOS	C	A	C	D	A	B	E	E	D	F	C	C
Approach Vol, veh/h		38			1072			1585			2510	
Approach Delay, s/veh		27.0			33.9			62.4			35.3	
Approach LOS		C			C			E			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	36.0	38.0		43.9	5.4	68.6		43.9				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	31.5	32.0		41.0	10.0	53.5		41.0				
Max Q Clear Time (g_c+I1), s	33.4	33.8		3.6	2.2	40.5		38.0				
Green Ext Time (p_c), s	0.0	0.0		0.1	0.0	9.6		1.0				

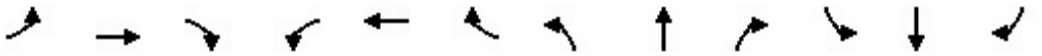
Intersection Summary			
HCM 6th Ctrl Delay		43.2	
HCM 6th LOS		D	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	563	1040	82	95	501	264	98	987	214	1016	1231	547
Future Volume (vph)	563	1040	82	95	501	264	98	987	214	1016	1231	547
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	26.0	39.0	39.0	9.5	22.5	22.5	19.0	29.5	9.5	42.0	52.5	26.0
Total Split (%)	21.7%	32.5%	32.5%	7.9%	18.8%	18.8%	15.8%	24.6%	7.9%	35.0%	43.8%	21.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	21.5	34.5	34.5	5.0	18.0	18.0	12.0	25.0	34.5	37.5	50.5	72.0
Actuated g/C Ratio	0.18	0.29	0.29	0.04	0.15	0.15	0.10	0.21	0.29	0.31	0.42	0.60
v/c Ratio	1.09	1.08	0.16	0.75	1.00	0.59	0.62	0.98	0.41	1.13	0.61	0.57
Control Delay	111.1	93.5	1.5	89.1	90.0	11.1	68.2	72.1	15.7	109.2	29.0	10.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	111.1	93.5	1.5	89.1	90.0	11.1	68.2	72.1	15.7	109.2	29.0	10.9
LOS	F	F	A	F	F	B	E	E	B	F	C	B
Approach Delay		94.9			65.7			62.5			54.6	
Approach LOS		F			E			E			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.13	
Intersection Signal Delay: 67.8	Intersection LOS: E
Intersection Capacity Utilization 104.1%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	563	1040	82	95	501	264	98	987	214	1016	1231	547
Future Volume (veh/h)	563	1040	82	95	501	264	98	987	214	1016	1231	547
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	574	1061	72	97	511	198	100	1007	176	1037	1256	516
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	530	983	439	131	513	229	122	1024	381	924	2189	944
Arrive On Green	0.18	0.29	0.29	0.04	0.15	0.15	0.08	0.21	0.21	0.31	0.45	0.45
Sat Flow, veh/h	2956	3420	1525	3141	3420	1525	1619	4914	1525	2956	4914	1506
Grp Volume(v), veh/h	574	1061	72	97	511	198	100	1007	176	1037	1256	516
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1570	1710	1525	1619	1638	1525	1478	1638	1506
Q Serve(g_s), s	21.5	34.5	4.2	3.7	17.9	15.2	7.3	24.5	11.7	37.5	22.9	23.5
Cycle Q Clear(g_c), s	21.5	34.5	4.2	3.7	17.9	15.2	7.3	24.5	11.7	37.5	22.9	23.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	530	983	439	131	513	229	122	1024	381	924	2189	944
V/C Ratio(X)	1.08	1.08	0.16	0.74	1.00	0.87	0.82	0.98	0.46	1.12	0.57	0.55
Avail Cap(c_a), veh/h	530	983	439	131	513	229	196	1024	381	924	2189	944
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.3	42.7	32.0	56.9	51.0	49.8	54.7	47.3	38.2	41.2	24.8	12.9
Incr Delay (d2), s/veh	63.7	52.5	0.2	20.0	38.7	27.4	13.4	24.1	0.9	69.3	0.4	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.4	21.1	1.5	1.8	10.2	7.4	3.3	11.7	4.4	21.6	8.2	7.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	112.9	95.3	32.1	76.8	89.6	77.3	68.1	71.4	39.0	110.6	25.2	13.5
LnGrp LOS	F	F	C	E	F	E	E	E	D	F	C	B
Approach Vol, veh/h		1707			806			1283			2809	
Approach Delay, s/veh		98.5			85.1			66.7			54.6	
Approach LOS		F			F			E			D	

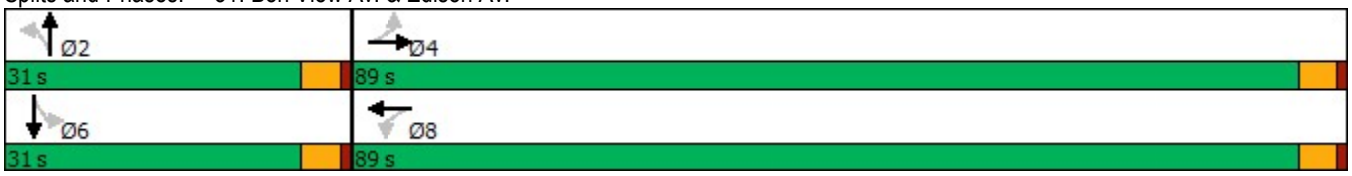
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	42.0	29.5	9.5	39.0	13.5	58.0	26.0	22.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	37.5	25.0	5.0	34.5	14.5	48.0	21.5	18.0
Max Q Clear Time (g_c+I1), s	39.5	26.5	5.7	36.5	9.3	25.5	23.5	19.9
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.1	10.6	0.0	0.0

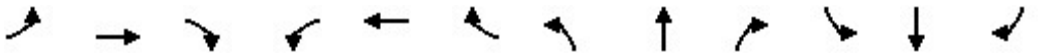
Intersection Summary	
HCM 6th Ctrl Delay	72.0
HCM 6th LOS	E

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	72	1934	28	817	73	205	22	199
Future Volume (vph)	72	1934	28	817	73	205	22	199
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	89.0	89.0	89.0	89.0	31.0	31.0	31.0	31.0
Total Split (%)	74.2%	74.2%	74.2%	74.2%	25.8%	25.8%	25.8%	25.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	62.4	62.4	62.4	62.4	19.0	19.0	19.0	19.0
Actuated g/C Ratio	0.69	0.69	0.69	0.69	0.21	0.21	0.21	0.21
v/c Ratio	0.20	0.67	0.36	0.26	0.54	0.73	0.20	0.65
Control Delay	7.3	9.3	20.9	5.7	52.1	47.0	39.8	43.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	7.3	9.3	20.9	5.7	52.1	47.0	39.8	43.5
LOS	A	A	C	A	D	D	D	D
Approach Delay		9.2		6.2		48.1		43.2
Approach LOS		A		A		D		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 91	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.73	
Intersection Signal Delay: 14.4	Intersection LOS: B
Intersection Capacity Utilization 79.9%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	72	1934	218	28	817	19	73	205	59	22	199	37
Future Volume (veh/h)	72	1934	218	28	817	19	73	205	59	22	199	37
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	78	2102	237	30	888	21	79	223	64	24	216	40
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	458	3180	354	145	3499	83	198	321	92	173	353	65
Arrive On Green	0.67	0.67	0.67	0.67	0.67	0.67	0.23	0.23	0.23	0.23	0.23	0.23
Sat Flow, veh/h	623	4736	527	157	5213	123	1141	1419	407	1109	1559	289
Grp Volume(v), veh/h	78	1527	812	30	589	320	79	0	287	24	0	256
Grp Sat Flow(s),veh/h/ln	623	1729	1805	157	1729	1878	1141	0	1827	1109	0	1848
Q Serve(g_s), s	5.0	22.9	23.6	12.5	5.9	5.9	5.9	0.0	12.7	1.8	0.0	10.9
Cycle Q Clear(g_c), s	10.9	22.9	23.6	36.1	5.9	5.9	16.8	0.0	12.7	14.5	0.0	10.9
Prop In Lane	1.00		0.29	1.00		0.07	1.00		0.22	1.00		0.16
Lane Grp Cap(c), veh/h	458	2321	1212	145	2321	1261	198	0	413	173	0	418
V/C Ratio(X)	0.17	0.66	0.67	0.21	0.25	0.25	0.40	0.00	0.69	0.14	0.00	0.61
Avail Cap(c_a), veh/h	639	3322	1734	190	3322	1804	284	0	550	256	0	557
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	7.9	8.5	8.6	19.4	5.7	5.7	38.1	0.0	31.2	37.9	0.0	30.6
Incr Delay (d2), s/veh	0.2	0.3	0.6	0.7	0.1	0.1	1.3	0.0	2.4	0.4	0.0	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.6	6.2	6.8	0.4	1.6	1.8	1.6	0.0	5.5	0.5	0.0	4.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	8.1	8.8	9.3	20.1	5.8	5.8	39.4	0.0	33.7	38.2	0.0	32.0
LnGrp LOS	A	A	A	C	A	A	D	A	C	D	A	C
Approach Vol, veh/h		2417			939			366			280	
Approach Delay, s/veh		9.0			6.3			34.9			32.5	
Approach LOS		A			A			C			C	

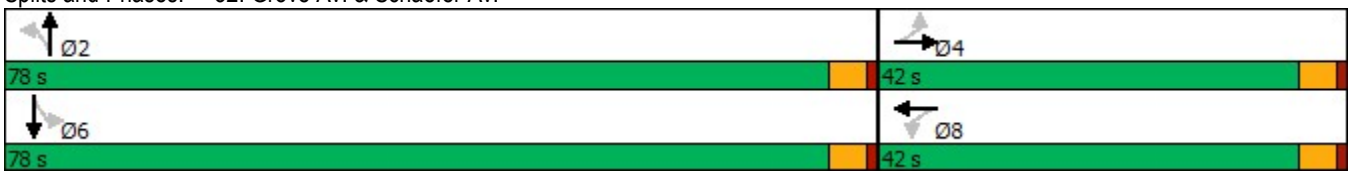
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		24.4		63.5		24.4		63.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		84.5		26.5		84.5				
Max Q Clear Time (g_c+I1), s		18.8		25.6		16.5		38.1				
Green Ext Time (p_c), s		1.1		33.4		1.0		8.5				

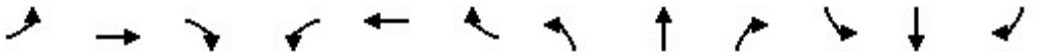
Intersection Summary												
HCM 6th Ctrl Delay			12.3									
HCM 6th LOS			B									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	131	253	7	122	43	690	132	474
Future Volume (vph)	131	253	7	122	43	690	132	474
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	42.0	42.0	42.0	42.0	78.0	78.0	78.0	78.0
Total Split (%)	35.0%	35.0%	35.0%	35.0%	65.0%	65.0%	65.0%	65.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	12.5	12.5	12.5	12.5	19.9	19.9	19.9	19.9
Actuated g/C Ratio	0.30	0.30	0.30	0.30	0.47	0.47	0.47	0.47
v/c Ratio	0.42	0.42	0.03	0.22	0.13	0.49	0.54	0.36
Control Delay	18.6	10.7	14.0	8.4	7.7	8.6	17.0	7.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	18.6	10.7	14.0	8.4	7.7	8.6	17.0	7.5
LOS	B	B	B	A	A	A	B	A
Approach Delay		12.6		8.6		8.6		9.3
Approach LOS		B		A		A		A

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 42.3	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.54	
Intersection Signal Delay: 9.8	Intersection LOS: A
Intersection Capacity Utilization 59.6%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 32: Grove Av. & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	131	253	166	7	122	91	43	690	55	132	474	77
Future Volume (veh/h)	131	253	166	7	122	91	43	690	55	132	474	77
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	144	278	182	8	134	100	47	758	60	145	521	85
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	445	609	387	340	585	407	499	1681	133	411	1542	251
Arrive On Green	0.29	0.29	0.29	0.29	0.29	0.29	0.50	0.50	0.50	0.50	0.50	0.50
Sat Flow, veh/h	1165	2118	1345	947	2035	1415	827	3389	268	679	3109	505
Grp Volume(v), veh/h	144	236	224	8	118	116	47	404	414	145	302	304
Grp Sat Flow(s),veh/h/ln	1165	1805	1658	947	1805	1645	827	1805	1852	679	1805	1809
Q Serve(g_s), s	4.5	4.4	4.6	0.3	2.1	2.3	1.5	6.0	6.0	7.3	4.2	4.2
Cycle Q Clear(g_c), s	6.8	4.4	4.6	4.9	2.1	2.3	5.8	6.0	6.0	13.4	4.2	4.2
Prop In Lane	1.00		0.81	1.00		0.86	1.00		0.14	1.00		0.28
Lane Grp Cap(c), veh/h	445	519	477	340	519	473	499	895	918	411	895	897
V/C Ratio(X)	0.32	0.45	0.47	0.02	0.23	0.25	0.09	0.45	0.45	0.35	0.34	0.34
Avail Cap(c_a), veh/h	1161	1628	1496	922	1628	1484	1551	3191	3274	1275	3191	3199
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	13.9	12.1	12.2	14.2	11.3	11.4	8.1	6.8	6.8	11.1	6.3	6.3
Incr Delay (d2), s/veh	0.4	0.6	0.7	0.0	0.2	0.3	0.1	0.4	0.3	0.5	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	1.4	1.3	0.1	0.6	0.6	0.2	1.3	1.3	0.8	0.9	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.4	12.8	12.9	14.3	11.5	11.6	8.2	7.2	7.1	11.7	6.6	6.6
LnGrp LOS	B	B	B	B	B	B	A	A	A	B	A	A
Approach Vol, veh/h		604			242			865			751	
Approach Delay, s/veh		13.2			11.7			7.2			7.5	
Approach LOS		B			B			A			A	

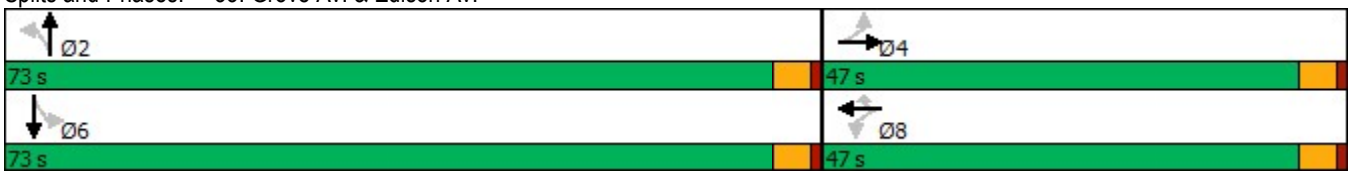
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		25.1		16.5		25.1		16.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		73.5		37.5		73.5		37.5				
Max Q Clear Time (g_c+I1), s		8.0		8.8		15.4		6.9				
Green Ext Time (p_c), s		5.7		3.2		5.2		1.3				

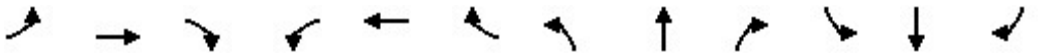
Intersection Summary												
HCM 6th Ctrl Delay			9.2									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	109	1895	27	880	55	482	652	150	403
Future Volume (vph)	109	1895	27	880	55	482	652	150	403
Turn Type	Perm	NA	Perm	NA	Perm	Perm	NA	Perm	NA
Protected Phases		4		8			2		6
Permitted Phases	4		8		8	2		6	
Detector Phase	4	4	8	8	8	2	2	6	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	47.0	47.0	47.0	47.0	47.0	73.0	73.0	73.0	73.0
Total Split (%)	39.2%	39.2%	39.2%	39.2%	39.2%	60.8%	60.8%	60.8%	60.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	42.5	42.5	42.5	42.5	42.5	68.5	68.5	68.5	68.5
Actuated g/C Ratio	0.35	0.35	0.35	0.35	0.35	0.57	0.57	0.57	0.57
v/c Ratio	0.85	1.18	0.52	0.49	0.10	1.26	0.44	0.60	0.28
Control Delay	84.3	120.7	66.7	31.4	7.0	160.4	15.6	28.1	12.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	84.3	120.7	66.7	31.4	7.0	160.4	15.6	28.1	12.8
LOS	F	F	E	C	A	F	B	C	B
Approach Delay		118.9		31.0			69.3		16.3
Approach LOS		F		C			E		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 45	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.26	
Intersection Signal Delay: 76.4	Intersection LOS: E
Intersection Capacity Utilization 107.4%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	109	1895	181	27	880	55	482	652	166	150	403	112
Future Volume (veh/h)	109	1895	181	27	880	55	482	652	166	150	403	112
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	117	2038	120	29	946	37	518	701	113	161	433	66
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	173	1789	105	60	1912	540	468	1727	278	329	1743	264
Arrive On Green	0.53	0.53	0.53	0.35	0.35	0.35	0.57	0.57	0.57	0.57	0.57	0.57
Sat Flow, veh/h	520	5051	296	168	5400	1525	817	3025	487	610	3054	463
Grp Volume(v), veh/h	117	1450	708	29	946	37	518	417	397	161	254	245
Grp Sat Flow(s),veh/h/ln	520	1800	1747	168	1800	1525	817	1800	1712	610	1800	1717
Q Serve(g_s), s	26.0	42.5	42.5	0.0	16.5	1.9	59.9	15.5	15.5	24.1	8.5	8.6
Cycle Q Clear(g_c), s	42.5	42.5	42.5	42.5	16.5	1.9	68.5	15.5	15.5	39.6	8.5	8.6
Prop In Lane	1.00		0.17	1.00		1.00	1.00		0.28	1.00		0.27
Lane Grp Cap(c), veh/h	173	1275	619	60	1913	540	468	1028	977	329	1028	980
V/C Ratio(X)	0.68	1.14	1.14	0.48	0.49	0.07	1.11	0.41	0.41	0.49	0.25	0.25
Avail Cap(c_a), veh/h	173	1275	619	60	1913	540	468	1028	977	329	1028	980
HCM Platoon Ratio	1.50	1.50	1.50	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.8	28.1	28.1	60.0	30.3	25.6	33.9	14.4	14.4	25.5	12.9	12.9
Incr Delay (d2), s/veh	10.0	71.8	83.2	5.9	0.2	0.1	73.9	0.3	0.3	1.1	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.5	26.7	27.8	1.0	6.9	0.7	23.4	5.8	5.5	3.3	3.1	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.9	99.9	111.3	65.9	30.5	25.7	107.8	14.6	14.7	26.6	13.0	13.0
LnGrp LOS	D	F	F	E	C	C	F	B	B	C	B	B
Approach Vol, veh/h		2275			1012			1332			660	
Approach Delay, s/veh		100.7			31.4			50.9			16.3	
Approach LOS		F			C			D			B	

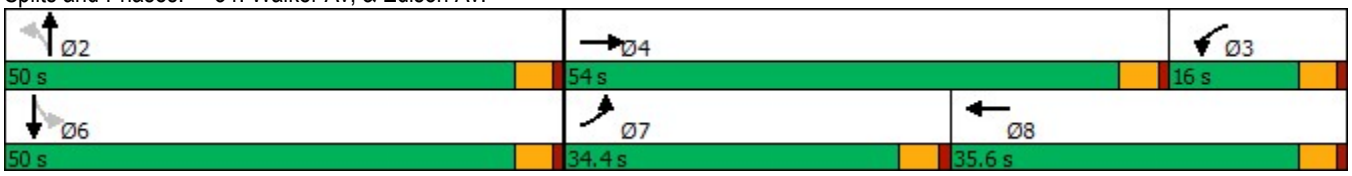
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		73.0		47.0		73.0		47.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		68.5		42.5		68.5		42.5				
Max Q Clear Time (g_c+I1), s		70.5		44.5		41.6		44.5				
Green Ext Time (p_c), s		0.0		0.0		4.4		0.0				

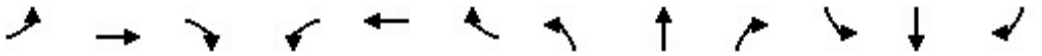
Intersection Summary												
HCM 6th Ctrl Delay			64.3									
HCM 6th LOS			E									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	23	2200	267	912	1	121	191	143
Future Volume (vph)	23	2200	267	912	1	121	191	143
Turn Type	Prot	NA	Prot	NA	Perm	NA	Perm	NA
Protected Phases	7	4	3	8		2		6
Permitted Phases					2		6	
Detector Phase	7	4	3	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	9.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	34.4	54.0	16.0	35.6	50.0	50.0	50.0	50.0
Total Split (%)	28.7%	45.0%	13.3%	29.7%	41.7%	41.7%	41.7%	41.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lead	Lag	Lag				
Lead-Lag Optimize?	Yes	Yes	Yes	Yes				
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	7.2	49.5	11.5	57.9	45.5	45.5	45.5	45.5
Actuated g/C Ratio	0.06	0.41	0.10	0.48	0.38	0.38	0.38	0.38
v/c Ratio	0.23	0.77	1.69	0.36	0.00	1.24	3.30	0.25
Control Delay	58.1	32.5	366.1	19.5	23.0	147.4	1091.3	25.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.1	32.5	366.1	19.5	23.0	147.4	1091.3	25.7
LOS	E	C	F	B	C	F	F	C
Approach Delay		32.7		82.7		147.3		599.9
Approach LOS		C		F		F		F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 3.30	
Intersection Signal Delay: 108.6	Intersection LOS: F
Intersection Capacity Utilization 125.6%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 34: Walker Av, & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	2200	28	267	912	284	1	121	754	191	143	21
Future Volume (veh/h)	23	2200	28	267	912	284	1	121	754	191	143	21
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	25	2391	19	290	991	200	1	132	440	208	155	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	43	2950	23	180	2876	571	496	151	504	150	683	53
Arrive On Green	0.04	0.59	0.59	0.15	0.70	0.70	0.59	0.59	0.59	0.59	0.59	0.59
Sat Flow, veh/h	1810	7529	60	1810	6157	1223	1238	385	1284	854	1741	135
Grp Volume(v), veh/h	25	1810	600	290	916	275	1	0	572	208	0	167
Grp Sat Flow(s),veh/h/ln	1810	1900	1889	1810	1900	1680	1238	0	1669	854	0	1876
Q Serve(g_s), s	1.6	29.0	29.0	11.5	7.3	7.5	0.0	0.0	33.6	11.9	0.0	4.9
Cycle Q Clear(g_c), s	1.6	29.0	29.0	11.5	7.3	7.5	4.9	0.0	33.6	45.5	0.0	4.9
Prop In Lane	1.00		0.03	1.00		0.73	1.00		0.77	1.00		0.07
Lane Grp Cap(c), veh/h	43	2233	740	180	2663	785	496	0	655	150	0	736
V/C Ratio(X)	0.58	0.81	0.81	1.62	0.34	0.35	0.00	0.00	0.87	1.39	0.00	0.23
Avail Cap(c_a), veh/h	467	2434	807	180	2663	785	496	0	655	150	0	736
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	55.3	20.5	20.5	49.3	10.3	10.4	16.7	0.0	21.4	43.1	0.0	15.5
Incr Delay (d2), s/veh	11.7	2.0	5.8	301.1	0.1	0.3	0.0	0.0	12.4	211.3	0.0	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	9.5	10.3	19.8	2.6	2.4	0.0	0.0	11.6	12.8	0.0	2.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	67.0	22.5	26.3	350.4	10.4	10.6	16.7	0.0	33.8	254.4	0.0	15.6
LnGrp LOS	E	C	C	F	B	B	B	A	C	F	A	B
Approach Vol, veh/h		2435			1481			573			375	
Approach Delay, s/veh		23.9			77.0			33.8			148.1	
Approach LOS		C			E			C			F	

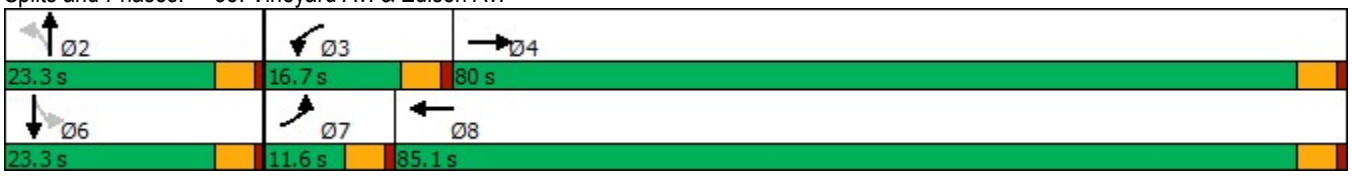
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		50.0	16.0	49.9		50.0	7.3	58.6				
Change Period (Y+Rc), s		4.5	4.5	4.5		4.5	4.5	4.5				
Max Green Setting (Gmax), s		45.5	11.5	49.5		45.5	29.9	31.1				
Max Q Clear Time (g_c+I1), s		35.6	13.5	31.0		47.5	3.6	9.5				
Green Ext Time (p_c), s		2.6	0.0	14.4		0.0	0.0	7.8				

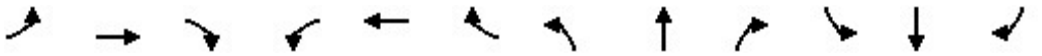
Intersection Summary	
HCM 6th Ctrl Delay	50.8
HCM 6th LOS	D

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	35	2463	72	1950	24	12	63	21
Future Volume (vph)	35	2463	72	1950	24	12	63	21
Turn Type	Prot	NA	Prot	NA	Perm	NA	Perm	NA
Protected Phases	7	4	3	8		2		6
Permitted Phases					2		6	
Detector Phase	7	4	3	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.6	21.6	9.6	21.6	21.6	21.6	21.6	21.6
Total Split (s)	11.6	80.0	16.7	85.1	23.3	23.3	23.3	23.3
Total Split (%)	9.7%	66.7%	13.9%	70.9%	19.4%	19.4%	19.4%	19.4%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lead	Lag				
Lead-Lag Optimize?	Yes	Yes	Yes	Yes				
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	6.8	59.7	9.0	64.3	11.7	11.7	11.7	11.7
Actuated g/C Ratio	0.07	0.65	0.10	0.70	0.13	0.13	0.13	0.13
v/c Ratio	0.29	0.82	0.44	0.60	0.15	0.50	0.55	0.17
Control Delay	56.2	15.8	55.4	9.0	44.7	23.6	62.0	30.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	56.2	15.8	55.4	9.0	44.7	23.6	62.0	30.2
LOS	E	B	E	A	D	C	E	C
Approach Delay		16.4		10.6		26.7		50.2
Approach LOS		B		B		C		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 92.2	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.82	
Intersection Signal Delay: 14.9	Intersection LOS: B
Intersection Capacity Utilization 80.8%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 35: Vineyard Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	35	2463	57	72	1950	54	24	12	124	63	21	16
Future Volume (veh/h)	35	2463	57	72	1950	54	24	12	124	63	21	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	38	2677	62	78	2120	59	26	13	135	68	23	17
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	62	3302	76	101	3397	94	282	23	234	177	159	118
Arrive On Green	0.03	0.63	0.63	0.06	0.65	0.65	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1810	5216	120	1810	5188	144	1466	143	1489	1329	1015	750
Grp Volume(v), veh/h	38	1769	970	78	1411	768	26	0	148	68	0	40
Grp Sat Flow(s),veh/h/ln	1810	1729	1878	1810	1729	1874	1466	0	1632	1329	0	1765
Q Serve(g_s), s	1.9	34.4	35.1	3.8	21.3	21.5	1.4	0.0	7.5	4.5	0.0	1.8
Cycle Q Clear(g_c), s	1.9	34.4	35.1	3.8	21.3	21.5	3.1	0.0	7.5	12.0	0.0	1.8
Prop In Lane	1.00		0.06	1.00		0.08	1.00		0.91	1.00		0.43
Lane Grp Cap(c), veh/h	62	2189	1189	101	2264	1227	282	0	256	177	0	277
V/C Ratio(X)	0.62	0.81	0.82	0.77	0.62	0.63	0.09	0.00	0.58	0.38	0.00	0.14
Avail Cap(c_a), veh/h	141	2911	1581	244	3108	1684	358	0	341	246	0	369
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	42.7	12.4	12.5	41.7	9.0	9.0	33.9	0.0	35.0	40.6	0.0	32.6
Incr Delay (d2), s/veh	3.7	1.0	1.9	4.6	0.1	0.2	0.1	0.0	0.8	0.5	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.8	10.0	11.3	1.7	5.8	6.3	0.5	0.0	2.9	1.4	0.0	0.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	46.3	13.3	14.4	46.3	9.1	9.2	34.0	0.0	35.8	41.1	0.0	32.6
LnGrp LOS	D	B	B	D	A	A	C	A	D	D	A	C
Approach Vol, veh/h		2777			2257			174			108	
Approach Delay, s/veh		14.1			10.5			35.5			37.9	
Approach LOS		B			B			D			D	

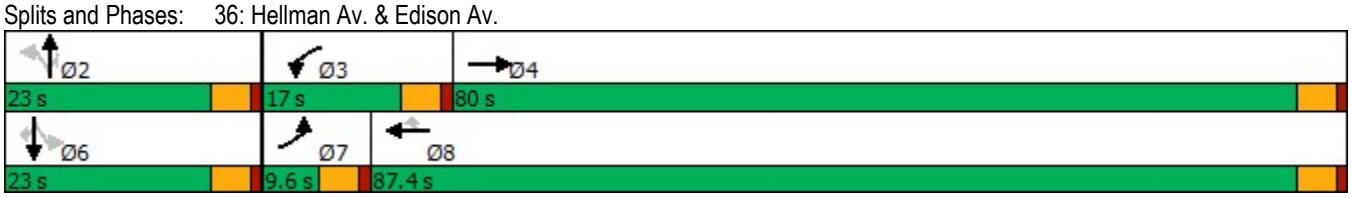
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		18.7	9.6	61.3		18.7	7.7	63.2				
Change Period (Y+Rc), s		4.6	4.6	4.6		4.6	4.6	4.6				
Max Green Setting (Gmax), s		18.7	12.1	75.4		18.7	7.0	80.5				
Max Q Clear Time (g_c+I1), s		9.5	5.8	37.1		14.0	3.9	23.5				
Green Ext Time (p_c), s		0.3	0.0	19.6		0.1	0.0	13.8				

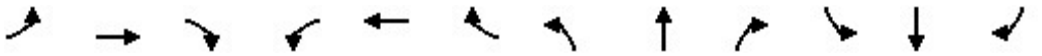
Intersection Summary	
HCM 6th Ctrl Delay	13.8
HCM 6th LOS	B

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	12	2541	204	1900	36	94	31	272	127	61	16
Future Volume (vph)	12	2541	204	1900	36	94	31	272	127	61	16
Turn Type	Prot	NA	Prot	NA	Perm	Perm	NA	Perm	Perm	NA	Perm
Protected Phases	7	4	3	8			2			6	
Permitted Phases					8	2		2	6		6
Detector Phase	7	4	3	8	8	2	2	2	6	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.6	21.6	9.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
Total Split (s)	9.6	80.0	17.0	87.4	87.4	23.0	23.0	23.0	23.0	23.0	23.0
Total Split (%)	8.0%	66.7%	14.2%	72.8%	72.8%	19.2%	19.2%	19.2%	19.2%	19.2%	19.2%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lead	Lag	Lag						
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes						
Recall Mode	None	None	None	None	None	Min	Min	Min	Min	Min	Min
Act Effct Green (s)	5.0	75.5	12.4	88.7	88.7	17.0	17.0	17.0	17.0	17.0	17.0
Actuated g/C Ratio	0.04	0.64	0.10	0.75	0.75	0.14	0.14	0.14	0.14	0.14	0.14
v/c Ratio	0.17	1.25	1.18	0.77	0.03	0.53	0.12	0.93	0.69	0.24	0.05
Control Delay	60.8	139.3	168.6	12.6	0.9	57.4	45.2	67.2	66.7	47.3	0.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	60.8	139.3	168.6	12.6	0.9	57.4	45.2	67.2	66.7	47.3	0.3
LOS	E	F	F	B	A	E	D	E	E	D	A
Approach Delay		139.0		27.3			63.1			55.8	
Approach LOS		F		C			E			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.7	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.25	
Intersection Signal Delay: 85.8	Intersection LOS: F
Intersection Capacity Utilization 109.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 36: Hellman Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	12	2541	85	204	1900	36	94	31	272	127	61	16
Future Volume (veh/h)	12	2541	85	204	1900	36	94	31	272	127	61	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	13	2762	49	222	2065	23	102	34	166	138	66	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	27	2316	41	190	2629	1173	216	267	226	219	267	226
Arrive On Green	0.01	0.64	0.64	0.10	0.73	0.73	0.14	0.14	0.14	0.14	0.14	0.14
Sat Flow, veh/h	1810	3629	64	1810	3610	1610	1416	1900	1610	1268	1900	1610
Grp Volume(v), veh/h	13	1369	1442	222	2065	23	102	34	166	138	66	12
Grp Sat Flow(s),veh/h/ln	1810	1805	1888	1810	1805	1610	1416	1900	1610	1268	1900	1610
Q Serve(g_s), s	0.8	75.4	75.4	12.4	42.9	0.5	8.2	1.9	11.7	12.6	3.7	0.8
Cycle Q Clear(g_c), s	0.8	75.4	75.4	12.4	42.9	0.5	11.8	1.9	11.7	14.5	3.7	0.8
Prop In Lane	1.00		0.03	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	27	1152	1205	190	2629	1173	216	267	226	219	267	226
V/C Ratio(X)	0.49	1.19	1.20	1.17	0.79	0.02	0.47	0.13	0.73	0.63	0.25	0.05
Avail Cap(c_a), veh/h	77	1152	1205	190	2629	1173	238	296	251	238	296	251
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	57.8	21.4	21.4	52.9	10.2	4.4	50.5	44.5	48.7	50.8	45.2	44.0
Incr Delay (d2), s/veh	5.1	94.0	96.7	118.3	1.5	0.0	0.6	0.1	7.8	3.1	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.4	55.9	59.3	11.7	13.0	0.1	2.9	0.9	5.0	4.2	1.7	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	62.9	115.4	118.1	171.2	11.7	4.4	51.1	44.5	56.5	53.9	45.4	44.0
LnGrp LOS	E	F	F	F	B	A	D	D	E	D	D	D
Approach Vol, veh/h		2824			2310			302			216	
Approach Delay, s/veh		116.5			26.9			53.4			50.8	
Approach LOS		F			C			D			D	

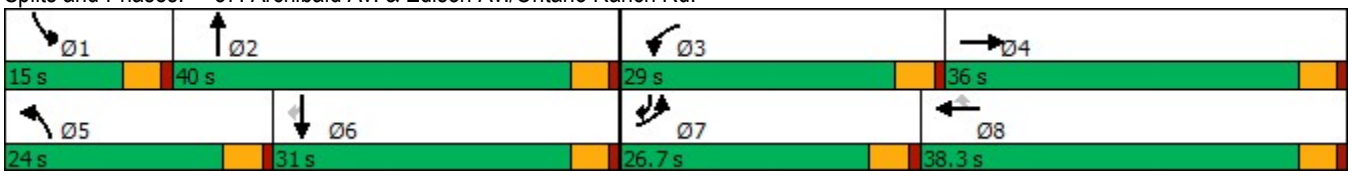
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		21.2	17.0	80.0		21.2	6.3	90.7				
Change Period (Y+Rc), s		4.6	4.6	4.6		4.6	4.6	4.6				
Max Green Setting (Gmax), s		18.4	12.4	75.4		18.4	5.0	82.8				
Max Q Clear Time (g_c+I1), s		13.8	14.4	77.4		16.5	2.8	44.9				
Green Ext Time (p_c), s		0.3	0.0	0.0		0.1	0.0	14.5				

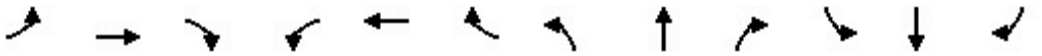
Intersection Summary												
HCM 6th Ctrl Delay			74.0									
HCM 6th LOS			E									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	350	1795	811	575	1270	157	474	1261	669	236	1060	255
Future Volume (vph)	350	1795	811	575	1270	157	474	1261	669	236	1060	255
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2		1	6	7
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	9.5
Total Split (s)	26.7	36.0		29.0	38.3	38.3	24.0	40.0		15.0	31.0	26.7
Total Split (%)	22.3%	30.0%		24.2%	31.9%	31.9%	20.0%	33.3%		12.5%	25.8%	22.3%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	None
Act Effct Green (s)	19.1	31.5	120.0	24.5	36.9	36.9	19.5	35.5	120.0	10.5	26.5	50.1
Actuated g/C Ratio	0.16	0.26	1.00	0.20	0.31	0.31	0.16	0.30	1.00	0.09	0.22	0.42
v/c Ratio	0.76	1.00	0.56	0.98	0.70	0.29	0.98	0.83	0.46	0.91	0.94	0.39
Control Delay	58.7	64.9	1.5	78.4	39.6	6.3	85.6	44.9	1.0	89.2	60.8	16.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.7	64.9	1.5	78.4	39.6	6.3	85.6	44.9	1.0	89.2	60.8	16.4
LOS	E	E	A	E	D	A	F	D	A	F	E	B
Approach Delay		46.8			48.1			40.7			57.8	
Approach LOS		D			D			D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.00	
Intersection Signal Delay: 47.4	Intersection LOS: D
Intersection Capacity Utilization 98.7%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	350	1795	811	575	1270	157	474	1261	669	236	1060	255
Future Volume (veh/h)	350	1795	811	575	1270	157	474	1261	669	236	1060	255
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	368	1889	0	605	1337	91	499	1327	0	248	1116	136
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	427	1891		622	2022	498	511	1596		275	1191	550
Arrive On Green	0.14	0.26	0.00	0.20	0.33	0.33	0.16	0.30	0.00	0.09	0.22	0.22
Sat Flow, veh/h	3048	7200	1525	3048	6192	1524	3141	5400	1525	3141	5400	1525
Grp Volume(v), veh/h	368	1889	0	605	1337	91	499	1327	0	248	1116	136
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1548	1524	1570	1800	1525	1570	1800	1525
Q Serve(g_s), s	14.2	31.5	0.0	23.6	22.2	5.1	19.0	27.5	0.0	9.4	24.4	7.5
Cycle Q Clear(g_c), s	14.2	31.5	0.0	23.6	22.2	5.1	19.0	27.5	0.0	9.4	24.4	7.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	427	1891		622	2022	498	511	1596		275	1191	550
V/C Ratio(X)	0.86	1.00		0.97	0.66	0.18	0.98	0.83		0.90	0.94	0.25
Avail Cap(c_a), veh/h	564	1891		622	2022	498	511	1598		275	1193	551
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.4	44.2	0.0	47.4	34.7	28.9	50.0	39.5	0.0	54.2	45.9	26.9
Incr Delay (d2), s/veh	10.2	20.5	0.0	29.0	0.8	0.2	33.9	3.9	0.0	30.3	13.6	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.8	16.0	0.0	11.1	8.1	1.8	9.5	12.0	0.0	4.7	11.8	2.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	60.6	64.7	0.0	76.4	35.5	29.1	83.9	43.3	0.0	84.5	59.6	27.1
LnGrp LOS	E	E		E	D	C	F	D		F	E	C
Approach Vol, veh/h		2257	A		2033			1826	A		1500	
Approach Delay, s/veh		64.0			47.4			54.4			60.7	
Approach LOS		E			D			D			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	40.0	29.0	36.0	24.0	31.0	21.3	43.7
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	10.5	35.5	24.5	31.5	19.5	26.5	22.2	33.8
Max Q Clear Time (g_c+I1), s	11.4	29.5	25.6	33.5	21.0	26.4	16.2	24.2
Green Ext Time (p_c), s	0.0	3.7	0.0	0.0	0.0	0.1	0.7	5.7

Intersection Summary	
HCM 6th Ctrl Delay	56.6
HCM 6th LOS	E

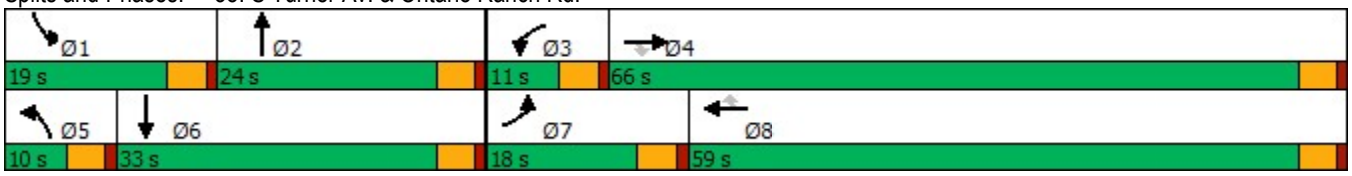
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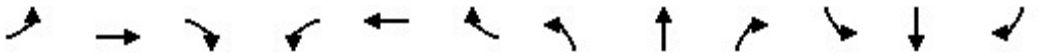
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	156	2326	53	66	2043	153	19	21	160	46
Future Volume (vph)	156	2326	53	66	2043	153	19	21	160	46
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	18.0	66.0	66.0	11.0	59.0	59.0	10.0	24.0	19.0	33.0
Total Split (%)	15.0%	55.0%	55.0%	9.2%	49.2%	49.2%	8.3%	20.0%	15.8%	27.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	13.0	62.7	62.7	6.5	53.7	53.7	5.5	8.6	13.6	23.0
Actuated g/C Ratio	0.12	0.59	0.59	0.06	0.50	0.50	0.05	0.08	0.13	0.21
v/c Ratio	0.77	0.82	0.06	0.65	0.84	0.18	0.22	0.34	0.75	0.30
Control Delay	70.0	22.4	0.1	78.1	27.7	2.7	57.4	28.8	67.1	22.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70.0	22.4	0.1	78.1	27.7	2.7	57.4	28.8	67.1	22.2
LOS	E	C	A	E	C	A	E	C	E	C
Approach Delay		24.8			27.5			36.2		48.2
Approach LOS		C			C			D		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 107	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.84	
Intersection Signal Delay: 27.4	Intersection LOS: C
Intersection Capacity Utilization 75.9%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	156	2326	53	66	2043	153	19	21	33	160	46	71
Future Volume (veh/h)	156	2326	53	66	2043	153	19	21	33	160	46	71
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	168	2501	52	71	2197	162	20	23	23	172	49	74
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	202	3091	959	92	2775	861	39	45	45	206	99	149
Arrive On Green	0.11	0.60	0.60	0.05	0.53	0.53	0.02	0.05	0.05	0.11	0.14	0.14
Sat Flow, veh/h	1810	5187	1610	1810	5187	1610	1810	872	872	1810	683	1031
Grp Volume(v), veh/h	168	2501	52	71	2197	162	20	0	46	172	0	123
Grp Sat Flow(s),veh/h/ln	1810	1729	1610	1810	1729	1610	1810	0	1743	1810	0	1714
Q Serve(g_s), s	8.7	36.2	1.3	3.7	32.8	5.0	1.1	0.0	2.5	8.9	0.0	6.4
Cycle Q Clear(g_c), s	8.7	36.2	1.3	3.7	32.8	5.0	1.1	0.0	2.5	8.9	0.0	6.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		0.60
Lane Grp Cap(c), veh/h	202	3091	959	92	2775	861	39	0	91	206	0	248
V/C Ratio(X)	0.83	0.81	0.05	0.77	0.79	0.19	0.51	0.00	0.51	0.83	0.00	0.50
Avail Cap(c_a), veh/h	254	3320	1031	122	2942	913	104	0	354	273	0	508
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	41.8	15.2	8.1	45.1	18.0	11.6	46.5	0.0	44.3	41.7	0.0	37.9
Incr Delay (d2), s/veh	16.9	1.5	0.0	19.3	1.5	0.1	10.1	0.0	4.3	15.2	0.0	1.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	12.1	0.4	2.1	11.6	1.6	0.6	0.0	1.1	4.7	0.0	2.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	58.7	16.6	8.1	64.3	19.5	11.7	56.6	0.0	48.7	56.8	0.0	39.4
LnGrp LOS	E	B	A	E	B	B	E	A	D	E	A	D
Approach Vol, veh/h		2721			2430			66			295	
Approach Delay, s/veh		19.1			20.3			51.1			49.6	
Approach LOS		B			C			D			D	

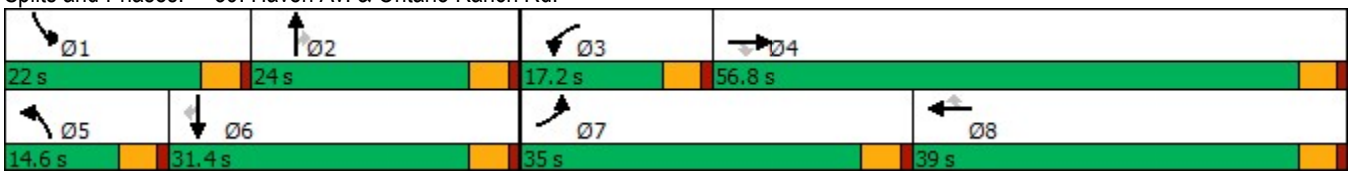
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.5	9.5	9.4	61.8	6.6	18.4	15.2	55.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	19.5	6.5	61.5	5.5	28.5	13.5	54.5
Max Q Clear Time (g_c+I1), s	10.9	4.5	5.7	38.2	3.1	8.4	10.7	34.8
Green Ext Time (p_c), s	0.1	0.1	0.0	19.1	0.0	0.5	0.1	15.2

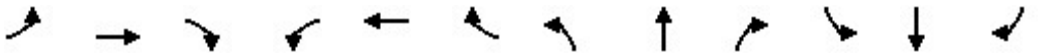
Intersection Summary	
HCM 6th Ctrl Delay	21.6
HCM 6th LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	455	1884	91	268	1879	277	85	407	116	257	441	173
Future Volume (vph)	455	1884	91	268	1879	277	85	407	116	257	441	173
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	35.0	56.8	56.8	17.2	39.0	39.0	14.6	24.0	24.0	22.0	31.4	31.4
Total Split (%)	29.2%	47.3%	47.3%	14.3%	32.5%	32.5%	12.2%	20.0%	20.0%	18.3%	26.2%	26.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	30.5	52.3	52.3	12.7	34.5	34.5	9.6	18.4	18.4	17.5	26.4	26.4
Actuated g/C Ratio	0.26	0.44	0.44	0.11	0.29	0.29	0.08	0.15	0.15	0.15	0.22	0.22
v/c Ratio	1.18	0.94	0.13	0.91	1.12	0.47	0.71	0.83	0.33	1.16	0.63	0.39
Control Delay	143.9	41.7	1.6	86.3	103.4	6.9	81.4	62.8	4.1	154.8	46.1	8.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	143.9	41.7	1.6	86.3	103.4	6.9	81.4	62.8	4.1	154.8	46.1	8.0
LOS	F	D	A	F	F	A	F	E	A	F	D	A
Approach Delay		59.3			90.5			54.2			70.6	
Approach LOS		E			F			D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.18	
Intersection Signal Delay: 72.3	Intersection LOS: E
Intersection Capacity Utilization 99.8%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	455	1884	91	268	1879	277	85	407	116	257	441	173
Future Volume (veh/h)	455	1884	91	268	1879	277	85	407	116	257	441	173
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	489	2026	55	288	2020	158	91	438	60	276	474	100
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	418	2178	676	318	1810	442	111	507	226	240	779	345
Arrive On Green	0.31	0.53	0.53	0.13	0.35	0.35	0.08	0.18	0.18	0.18	0.27	0.27
Sat Flow, veh/h	1619	4914	1525	2956	6192	1513	1619	3420	1522	1619	3420	1515
Grp Volume(v), veh/h	489	2026	55	288	2020	158	91	438	60	276	474	100
Grp Sat Flow(s),veh/h/ln	1619	1638	1525	1478	1548	1513	1619	1710	1522	1619	1710	1515
Q Serve(g_s), s	30.5	45.1	2.1	11.3	34.5	9.1	6.5	14.7	4.0	17.5	14.3	6.1
Cycle Q Clear(g_c), s	30.5	45.1	2.1	11.3	34.5	9.1	6.5	14.7	4.0	17.5	14.3	6.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	418	2178	676	318	1810	442	111	507	226	240	779	345
V/C Ratio(X)	1.17	0.93	0.08	0.91	1.12	0.36	0.82	0.86	0.27	1.15	0.61	0.29
Avail Cap(c_a), veh/h	418	2178	676	318	1810	442	139	565	252	240	780	345
HCM Platoon Ratio	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	40.7	25.9	15.9	50.8	38.3	30.1	53.4	47.3	43.0	48.5	38.3	35.3
Incr Delay (d2), s/veh	98.8	7.9	0.1	27.8	60.4	0.5	25.5	12.1	0.6	104.4	1.4	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	22.4	16.0	0.7	5.1	19.1	3.1	3.3	6.7	1.5	13.6	5.7	2.2
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	139.5	33.8	15.9	78.6	98.7	30.6	78.9	59.5	43.6	152.9	39.7	35.8
LnGrp LOS	F	C	B	E	F	C	E	E	D	F	D	D
Approach Vol, veh/h		2570			2466			589			850	
Approach Delay, s/veh		53.5			92.0			60.8			76.0	
Approach LOS		D			F			E			E	

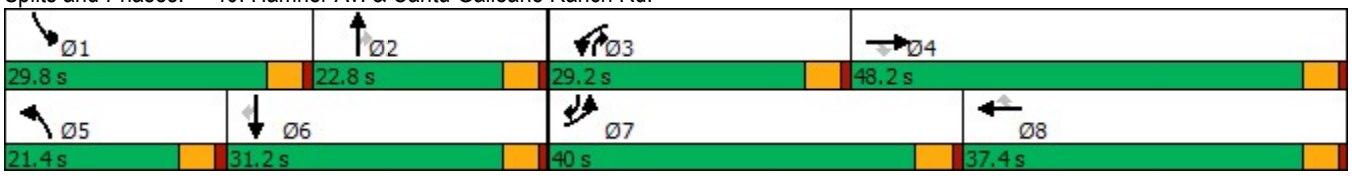
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.0	22.0	17.2	56.8	12.6	31.4	35.0	39.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	19.5	12.7	52.3	10.1	26.9	30.5	34.5
Max Q Clear Time (g_c+I1), s	19.5	16.7	13.3	47.1	8.5	16.3	32.5	36.5
Green Ext Time (p_c), s	0.0	0.8	0.0	4.5	0.0	2.3	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	71.8
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	908	1638	398	451	1771	354	362	439	356	641	836	763
Future Volume (vph)	908	1638	398	451	1771	354	362	439	356	641	836	763
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	40.0	48.2	48.2	29.2	37.4	37.4	21.4	22.8	29.2	29.8	31.2	40.0
Total Split (%)	30.8%	37.1%	37.1%	22.5%	28.8%	28.8%	16.5%	17.5%	22.5%	22.9%	24.0%	30.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	35.5	46.7	46.7	21.7	32.9	32.9	16.4	16.6	42.9	25.3	25.6	65.6
Actuated g/C Ratio	0.28	0.36	0.36	0.17	0.26	0.26	0.13	0.13	0.33	0.20	0.20	0.51
v/c Ratio	0.96	0.62	0.54	0.78	0.96	0.57	0.83	0.63	0.60	0.95	0.78	0.95
Control Delay	65.9	35.5	12.0	60.4	59.6	10.6	70.8	56.9	26.8	74.6	54.1	48.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	65.9	35.5	12.0	60.4	59.6	10.6	70.8	56.9	26.8	74.6	54.1	48.8
LOS	E	D	B	E	E	B	E	E	C	E	D	D
Approach Delay		41.7			53.0			52.0			58.2	
Approach LOS		D			D			D			E	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 128.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.96	
Intersection Signal Delay: 50.4	Intersection LOS: D
Intersection Capacity Utilization 94.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	908	1638	398	451	1771	354	362	439	356	641	836	763
Future Volume (veh/h)	908	1638	398	451	1771	354	362	439	356	641	836	763
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	956	1724	219	475	1864	194	381	462	196	675	880	403
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	996	2913	617	542	1959	415	435	727	447	717	1170	774
Arrive On Green	0.41	0.57	0.57	0.22	0.39	0.39	0.18	0.19	0.19	0.30	0.31	0.31
Sat Flow, veh/h	3619	7600	1610	3619	7600	1610	3619	5700	1610	3619	5700	1610
Grp Volume(v), veh/h	956	1724	219	475	1864	194	381	462	196	675	880	403
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1810	1900	1610	1810	1900	1610
Q Serve(g_s), s	32.7	18.6	9.3	16.1	30.3	11.5	13.1	9.5	12.7	23.2	17.7	23.1
Cycle Q Clear(g_c), s	32.7	18.6	9.3	16.1	30.3	11.5	13.1	9.5	12.7	23.2	17.7	23.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	996	2913	617	542	1959	415	435	727	447	717	1170	774
V/C Ratio(X)	0.96	0.59	0.35	0.88	0.95	0.47	0.88	0.64	0.44	0.94	0.75	0.52
Avail Cap(c_a), veh/h	1008	2913	617	702	1963	416	480	819	473	719	1195	781
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.7	20.7	18.7	48.2	38.3	32.5	51.3	48.8	35.1	44.1	41.2	20.2
Incr Delay (d2), s/veh	19.1	0.3	0.3	9.8	11.0	0.8	15.4	1.4	0.7	20.6	2.7	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	14.3	6.3	3.0	7.2	13.1	4.1	6.3	4.3	4.5	11.0	7.5	6.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	55.8	21.0	19.0	58.1	49.3	33.3	66.7	50.1	35.8	64.7	43.8	20.8
LnGrp LOS	E	C	B	E	D	C	E	D	D	E	D	C
Approach Vol, veh/h		2899			2533			1039			1958	
Approach Delay, s/veh		32.3			49.7			53.5			46.3	
Approach LOS		C			D			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.7	20.7	23.6	53.3	19.8	30.7	39.6	37.3
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.3	18.3	24.7	43.7	16.9	26.7	35.5	32.9
Max Q Clear Time (g_c+I1), s	25.2	14.7	18.1	20.6	15.1	25.1	34.7	32.3
Green Ext Time (p_c), s	0.0	1.2	1.0	13.2	0.3	1.1	0.4	0.5

Intersection Summary	
HCM 6th Ctrl Delay	43.4
HCM 6th LOS	D

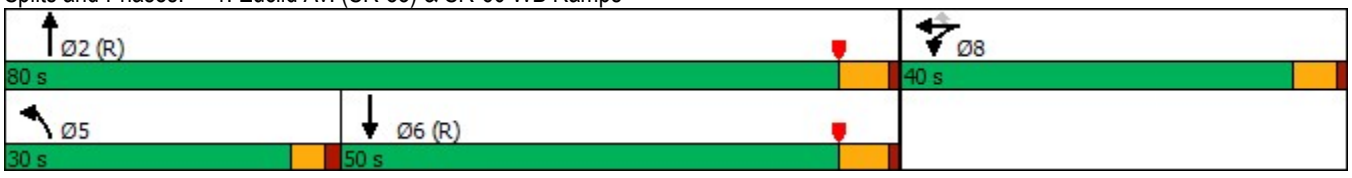
APPENDIX 7.8: HORIZON YEAR (2050) WITH PROJECT CONDITIONS INTERSECTION OPERATIONS ANALYSIS WORKSHEETS WITH IMPROVEMENTS

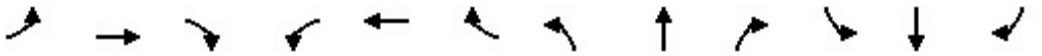
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Lane Group	WBL	WBT	WBR	NBL	NBT	SBT
Lane Configurations						
Traffic Volume (vph)	894	8	447	665	1668	1400
Future Volume (vph)	894	8	447	665	1668	1400
Turn Type	Split	NA	Perm	Prot	NA	NA
Protected Phases	8	8		5	2	6
Permitted Phases			8			
Detector Phase	8	8	8	5	2	6
Switch Phase						
Minimum Initial (s)	6.0	6.0	6.0	5.0	10.0	10.0
Minimum Split (s)	11.0	11.0	11.0	9.5	22.5	22.5
Total Split (s)	40.0	40.0	40.0	30.0	80.0	50.0
Total Split (%)	33.3%	33.3%	33.3%	25.0%	66.7%	41.7%
Yellow Time (s)	4.0	4.0	4.0	3.0	4.5	4.5
All-Red Time (s)	1.0	1.0	1.0	1.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	5.5	5.5
Lead/Lag				Lead		Lag
Lead-Lag Optimize?				Yes		Yes
Recall Mode	None	None	None	None	C-Min	C-Min
Act Effct Green (s)	35.0	35.0	35.0	25.1	74.5	44.9
Actuated g/C Ratio	0.29	0.29	0.29	0.21	0.62	0.37
v/c Ratio	0.97	0.97	0.88	0.95	0.51	0.93
Control Delay	74.5	74.6	54.8	72.9	11.4	44.3
Queue Delay	0.0	0.0	0.0	0.0	0.5	0.2
Total Delay	74.5	74.6	54.8	72.9	11.9	44.4
LOS	E	E	D	E	B	D
Approach Delay		68.7			29.3	44.4
Approach LOS		E			C	D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 44.0	Intersection LOS: D
Intersection Capacity Utilization 175.3%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	894	8	447	665	1668	0	0	1400	426
Future Volume (veh/h)	0	0	0	894	8	447	665	1668	0	0	1400	426
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				1061	0	210	715	1794	0	0	1505	291
Peak Hour Factor				0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				1056	0	470	754	3539	0	0	1741	335
Arrive On Green				0.29	0.00	0.29	0.42	1.00	0.00	0.00	0.37	0.37
Sat Flow, veh/h				3619	0	1610	3619	5700	0	0	4644	895
Grp Volume(v), veh/h				1061	0	210	715	1794	0	0	1230	566
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1900	0	0	1900	1739
Q Serve(g_s), s				35.0	0.0	12.7	22.9	0.0	0.0	0.0	35.9	36.2
Cycle Q Clear(g_c), s				35.0	0.0	12.7	22.9	0.0	0.0	0.0	35.9	36.2
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.51
Lane Grp Cap(c), veh/h				1056	0	470	754	3539	0	0	1425	652
V/C Ratio(X)				1.01	0.00	0.45	0.95	0.51	0.00	0.00	0.86	0.87
Avail Cap(c_a), veh/h				1056	0	470	769	3539	0	0	1425	652
HCM Platoon Ratio				1.00	1.00	1.00	2.00	2.00	1.00	1.00	1.00	1.00
Upstream Filter(I)				1.00	0.00	1.00	0.13	0.13	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				42.5	0.0	34.6	34.4	0.0	0.0	0.0	34.7	34.7
Incr Delay (d2), s/veh				29.0	0.0	0.2	4.2	0.1	0.0	0.0	7.2	14.5
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				19.2	0.0	4.9	8.0	0.0	0.0	0.0	17.3	17.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				71.5	0.0	34.9	38.5	0.1	0.0	0.0	41.8	49.3
LnGrp LOS				F	A	C	D	A	A	A	D	D
Approach Vol, veh/h					1271			2509			1796	
Approach Delay, s/veh					65.4			11.0			44.2	
Approach LOS					E			B			D	

Timer - Assigned Phs		2			5	6		8				
Phs Duration (G+Y+Rc), s		80.0			29.5	50.5		40.0				
Change Period (Y+Rc), s		5.5			4.5	5.5		5.0				
Max Green Setting (Gmax), s		74.5			25.5	44.5		35.0				
Max Q Clear Time (g_c+I1), s		2.0			24.9	38.2		37.0				
Green Ext Time (p_c), s		35.0			0.2	5.5		0.0				

Intersection Summary		
HCM 6th Ctrl Delay	34.1	
HCM 6th LOS	C	

Notes

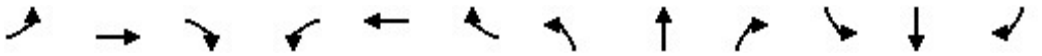
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Configurations							
Traffic Volume (vph)	539	0	1132	1462	946	452	1561
Future Volume (vph)	539	0	1132	1462	946	452	1561
Turn Type	Split	NA	Perm	NA	Perm	Prot	NA
Protected Phases	4	4		2		1	6
Permitted Phases			4		2		
Detector Phase	4	4	4	2	2	1	6
Switch Phase							
Minimum Initial (s)	6.0	6.0	6.0	10.0	10.0	5.0	10.0
Minimum Split (s)	11.0	11.0	11.0	22.5	22.5	9.0	22.5
Total Split (s)	47.0	47.0	47.0	54.0	54.0	19.0	73.0
Total Split (%)	39.2%	39.2%	39.2%	45.0%	45.0%	15.8%	60.8%
Yellow Time (s)	4.0	4.0	4.0	4.5	4.5	3.0	4.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	5.5	5.5	4.0	5.5
Lead/Lag				Lag	Lag	Lead	
Lead-Lag Optimize?				Yes	Yes	Yes	
Recall Mode	None	None	None	C-Min	C-Min	None	C-Min
Act Effct Green (s)	42.0	42.0	42.0	48.5	48.5	15.0	67.5
Actuated g/C Ratio	0.35	0.35	0.35	0.40	0.40	0.12	0.56
v/c Ratio	0.83	1.10	1.06	1.03	0.93	1.07	0.79
Control Delay	49.5	103.7	87.8	68.0	26.7	102.9	22.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	5.4
Total Delay	49.5	103.7	87.8	68.0	26.7	102.9	27.9
LOS	D	F	F	E	C	F	C
Approach Delay		82.4		51.8			44.7
Approach LOS		F		D			D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Offset: 0 (0%), Referenced to phase 2:NBT and 6:SBT, Start of Yellow	
Natural Cycle: 100	
Control Type: Actuated-Coordinated	
Maximum v/c Ratio: 1.10	
Intersection Signal Delay: 57.8	Intersection LOS: E
Intersection Capacity Utilization 167.6%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	539	0	1132	0	0	0	0	1462	946	452	1561	0
Future Volume (veh/h)	539	0	1132	0	0	0	0	1462	946	452	1561	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.99	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	774	0	418				0	1507	563	466	1609	0
Peak Hour Factor	0.97	0.97	0.97				0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	1027	0	457				0	1698	746	439	2270	0
Arrive On Green	0.28	0.00	0.28				0.00	0.47	0.47	0.25	1.00	0.00
Sat Flow, veh/h	3619	0	1610				0	3705	1586	3510	3705	0
Grp Volume(v), veh/h	774	0	418				0	1507	563	466	1609	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1586	1755	1805	0
Q Serve(g_s), s	23.4	0.0	30.1				0.0	45.5	35.0	15.0	0.0	0.0
Cycle Q Clear(g_c), s	23.4	0.0	30.1				0.0	45.5	35.0	15.0	0.0	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	1027	0	457				0	1698	746	439	2270	0
V/C Ratio(X)	0.75	0.00	0.91				0.00	0.89	0.75	1.06	0.71	0.00
Avail Cap(c_a), veh/h	1267	0	564				0	1698	746	439	2270	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	2.00	2.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	0.34	0.34	0.22	0.22	0.00
Uniform Delay (d), s/veh	39.2	0.0	41.6				0.0	28.9	26.1	45.0	0.0	0.0
Incr Delay (d2), s/veh	1.5	0.0	15.8				0.0	2.7	2.5	39.0	0.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.2	0.0	13.5				0.0	19.2	13.0	7.8	0.1	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	40.7	0.0	57.3				0.0	31.6	28.6	84.0	0.4	0.0
LnGrp LOS	D	A	E				A	C	C	F	A	A
Approach Vol, veh/h		1192						2070			2075	
Approach Delay, s/veh		46.5						30.8			19.2	
Approach LOS		D						C			B	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	19.0	62.0		39.0		81.0
Change Period (Y+Rc), s	4.0	5.5		5.0		5.5
Max Green Setting (Gmax), s	15.0	48.5		42.0		67.5
Max Q Clear Time (g_c+I1), s	17.0	47.5		32.1		2.0
Green Ext Time (p_c), s	0.0	0.9		1.9		30.2

Intersection Summary	
HCM 6th Ctrl Delay	29.8
HCM 6th LOS	C

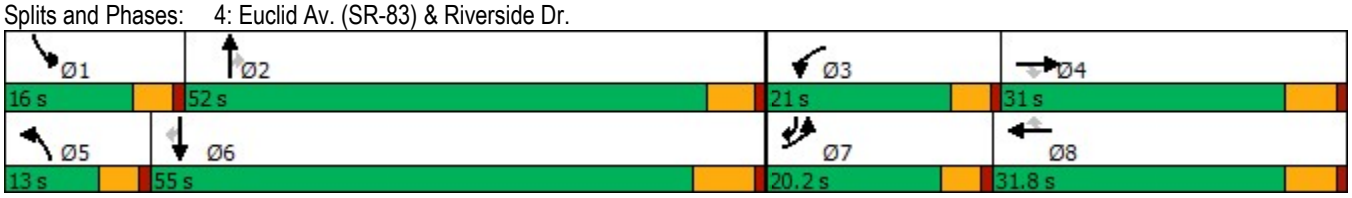
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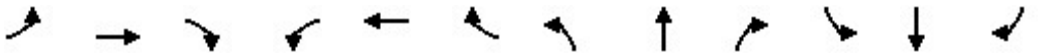
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	203	811	216	268	556	118	236	1636	326	267	2161	164
Future Volume (vph)	203	811	216	268	556	118	236	1636	326	267	2161	164
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2		1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	20.2	31.0	31.0	21.0	31.8	31.8	13.0	52.0	52.0	16.0	55.0	20.2
Total Split (%)	16.8%	25.8%	25.8%	17.5%	26.5%	26.5%	10.8%	43.3%	43.3%	13.3%	45.8%	16.8%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	15.6	25.2	25.2	16.4	26.0	26.0	8.4	46.6	46.6	11.4	48.5	70.6
Actuated g/C Ratio	0.13	0.21	0.21	0.14	0.22	0.22	0.07	0.39	0.39	0.10	0.40	0.59
v/c Ratio	0.99	1.15	0.51	1.24	0.77	0.29	1.10	0.87	0.43	0.92	1.11	0.18
Control Delay	112.4	126.9	18.8	183.9	51.9	8.7	141.4	40.3	6.2	88.6	91.9	7.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	112.4	126.9	18.8	183.9	51.9	8.7	141.4	40.3	6.2	88.6	91.9	7.2
LOS	F	F	B	F	D	A	F	D	A	F	F	A
Approach Delay		105.6			84.1			46.1			86.2	
Approach LOS		F			F			D			F	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.24	
Intersection Signal Delay: 76.7	Intersection LOS: E
Intersection Capacity Utilization 109.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	203	811	216	268	556	118	236	1636	326	267	2161	164
Future Volume (veh/h)	203	811	216	268	556	118	236	1636	326	267	2161	164
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	207	828	113	273	567	64	241	1669	170	272	2205	85
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	210	718	316	221	741	325	220	1863	578	298	1986	815
Arrive On Green	0.16	0.25	0.25	0.16	0.26	0.26	0.08	0.46	0.46	0.11	0.49	0.49
Sat Flow, veh/h	1619	3420	1506	1619	3420	1502	3141	4914	1525	3141	4914	1525
Grp Volume(v), veh/h	207	828	113	273	567	64	241	1669	170	272	2205	85
Grp Sat Flow(s),veh/h/ln	1619	1710	1506	1619	1710	1502	1570	1638	1525	1570	1638	1525
Q Serve(g_s), s	15.3	25.2	7.4	16.4	18.4	4.0	8.4	37.5	8.4	10.3	48.5	2.9
Cycle Q Clear(g_c), s	15.3	25.2	7.4	16.4	18.4	4.0	8.4	37.5	8.4	10.3	48.5	2.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	210	718	316	221	741	325	220	1863	578	298	1986	815
V/C Ratio(X)	0.98	1.15	0.36	1.23	0.77	0.20	1.10	0.90	0.29	0.91	1.11	0.10
Avail Cap(c_a), veh/h	210	718	316	221	741	325	220	1908	592	298	1986	815
HCM Platoon Ratio	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.5	44.9	38.2	50.2	41.6	36.3	55.0	30.5	22.6	52.7	30.9	11.8
Incr Delay (d2), s/veh	57.0	84.2	0.7	137.9	4.8	0.3	88.8	5.9	0.3	29.8	57.5	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	9.2	18.3	2.7	14.7	7.7	1.4	5.8	13.5	2.9	5.1	27.5	0.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	107.5	129.1	38.9	188.1	46.4	36.5	143.7	36.4	22.9	82.4	88.4	11.9
LnGrp LOS	F	F	D	F	D	D	F	D	C	F	F	B
Approach Vol, veh/h		1148			904			2080			2562	
Approach Delay, s/veh		116.3			88.5			47.8			85.2	
Approach LOS		F			F			D			F	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	16.0	52.0	21.0	31.0	13.0	55.0	20.2	31.8
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	11.4	* 47	16.4	25.2	8.4	48.5	15.6	26.0
Max Q Clear Time (g_c+I1), s	12.3	39.5	18.4	27.2	10.4	50.5	17.3	20.4
Green Ext Time (p_c), s	0.0	5.3	0.0	0.0	0.0	0.0	0.0	1.8

Intersection Summary	
HCM 6th Ctrl Delay	79.4
HCM 6th LOS	E

Notes

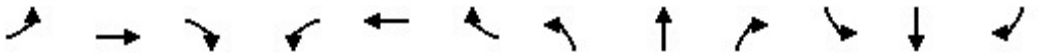
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	143	285	92	131	379	78	2085	213	124	2334	154
Future Volume (vph)	143	285	92	131	379	78	2085	213	124	2334	154
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	46.0	46.0	46.0	46.0	46.0	9.7	62.2	62.2	11.8	64.3	64.3
Total Split (%)	38.3%	38.3%	38.3%	38.3%	38.3%	8.1%	51.8%	51.8%	9.8%	53.6%	53.6%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8	5.8	5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	40.2	40.2	40.2	40.2	40.2	5.1	57.0	57.0	7.0	59.6	59.6
Actuated g/C Ratio	0.34	0.34	0.34	0.34	0.34	0.04	0.48	0.48	0.06	0.50	0.50
v/c Ratio	2.66	0.49	0.17	0.55	1.10	0.59	0.85	0.29	0.68	0.91	0.19
Control Delay	811.1	35.1	6.9	42.7	102.6	74.1	31.5	14.2	73.8	34.1	5.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	811.1	35.1	6.9	42.7	102.6	74.1	31.5	14.2	73.8	34.1	5.4
LOS	F	D	A	D	F	E	C	B	E	C	A
Approach Delay		243.4			92.1		31.4			34.3	
Approach LOS		F			F		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.8	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.66	
Intersection Signal Delay: 57.5	Intersection LOS: E
Intersection Capacity Utilization 115.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	143	285	92	131	379	238	78	2085	213	124	2334	154
Future Volume (veh/h)	143	285	92	131	379	238	78	2085	213	124	2334	154
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	149	297	54	136	395	144	81	2172	113	129	2431	108
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	82	599	508	248	419	153	125	2549	720	178	2638	745
Arrive On Green	0.33	0.33	0.33	0.33	0.33	0.33	0.04	0.47	0.47	0.06	0.49	0.49
Sat Flow, veh/h	787	1800	1525	936	1259	459	3238	5400	1525	3238	5400	1525
Grp Volume(v), veh/h	149	297	54	136	0	539	81	2172	113	129	2431	108
Grp Sat Flow(s),veh/h/ln	787	1800	1525	936	0	1717	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	3.4	15.9	3.0	16.4	0.0	36.8	3.0	42.9	5.1	4.7	50.6	4.7
Cycle Q Clear(g_c), s	40.2	15.9	3.0	32.3	0.0	36.8	3.0	42.9	5.1	4.7	50.6	4.7
Prop In Lane	1.00		1.00	1.00		0.27	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	82	599	508	248	0	572	125	2549	720	178	2638	745
V/C Ratio(X)	1.83	0.50	0.11	0.55	0.00	0.94	0.65	0.85	0.16	0.72	0.92	0.14
Avail Cap(c_a), veh/h	82	599	508	248	0	572	137	2549	720	193	2638	745
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	59.9	32.2	27.9	45.1	0.0	39.2	57.2	28.2	18.2	56.1	28.7	17.0
Incr Delay (d2), s/veh	416.3	0.6	0.1	2.5	0.0	24.3	6.3	3.8	0.5	9.5	6.7	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	11.9	6.8	1.1	3.9	0.0	18.6	1.3	17.5	1.8	2.1	21.0	1.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	476.2	32.8	27.9	47.6	0.0	63.4	63.6	32.0	18.6	65.7	35.5	17.4
LnGrp LOS	F	C	C	D	A	E	E	C	B	E	D	B
Approach Vol, veh/h		500			675			2366			2668	
Approach Delay, s/veh		164.4			60.3			32.4			36.2	
Approach LOS		F			E			C			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	11.3	63.5		46.0	9.3	65.5		46.0				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	7.2	* 57		40.2	5.1	57.8		40.2				
Max Q Clear Time (g_c+I1), s	6.7	44.9		42.2	5.0	52.6		38.8				
Green Ext Time (p_c), s	0.0	9.8		0.0	0.0	4.8		0.6				

Intersection Summary		
HCM 6th Ctrl Delay		47.7
HCM 6th LOS		D

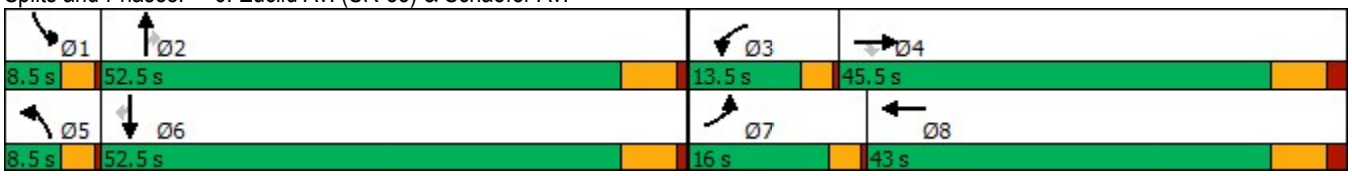
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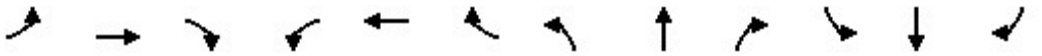
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	425	179	181	4	28	139	1995	85	142	2271	188
Future Volume (vph)	425	179	181	4	28	139	1995	85	142	2271	188
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	16.0	45.5	45.5	13.5	43.0	8.5	52.5	52.5	8.5	52.5	52.5
Total Split (%)	13.3%	37.9%	37.9%	11.3%	35.8%	7.1%	43.8%	43.8%	7.1%	43.8%	43.8%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	13.3	19.9	19.9	10.2	10.8	5.1	47.6	47.6	5.1	47.6	47.6
Actuated g/C Ratio	0.15	0.22	0.22	0.11	0.12	0.06	0.52	0.52	0.06	0.52	0.52
v/c Ratio	0.97	0.48	0.39	0.02	0.21	0.83	0.81	0.11	0.85	0.93	0.23
Control Delay	78.2	34.8	6.9	44.5	27.2	81.4	24.3	3.8	83.9	30.3	9.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	78.2	34.8	6.9	44.5	27.2	81.4	24.3	3.8	83.9	30.3	9.3
LOS	E	C	A	D	C	F	C	A	F	C	A
Approach Delay		51.8			28.5		27.1			31.7	
Approach LOS		D			C		C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 91.6	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.97	
Intersection Signal Delay: 32.7	Intersection LOS: C
Intersection Capacity Utilization 85.1%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	425	179	181	4	28	16	139	1995	85	142	2271	188
Future Volume (veh/h)	425	179	181	4	28	16	139	1995	85	142	2271	188
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	443	186	152	4	29	14	145	2078	89	148	2366	159
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	443	337	285	17	65	31	177	2556	793	177	2556	793
Arrive On Green	0.14	0.19	0.19	0.01	0.06	0.06	0.06	0.52	0.52	0.06	0.52	0.52
Sat Flow, veh/h	3141	1800	1525	1619	1147	554	3141	4914	1525	3141	4914	1525
Grp Volume(v), veh/h	443	186	152	4	0	43	145	2078	89	148	2366	159
Grp Sat Flow(s),veh/h/ln	1570	1800	1525	1619	0	1700	1570	1638	1525	1570	1638	1525
Q Serve(g_s), s	12.5	8.3	8.0	0.2	0.0	2.2	4.0	31.1	2.6	4.1	39.5	4.9
Cycle Q Clear(g_c), s	12.5	8.3	8.0	0.2	0.0	2.2	4.0	31.1	2.6	4.1	39.5	4.9
Prop In Lane	1.00		1.00	1.00		0.33	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	443	337	285	17	0	96	177	2556	793	177	2556	793
V/C Ratio(X)	1.00	0.55	0.53	0.23	0.00	0.45	0.82	0.81	0.11	0.83	0.93	0.20
Avail Cap(c_a), veh/h	443	783	663	183	0	691	177	2580	801	177	2580	801
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.0	32.6	32.5	43.5	0.0	40.4	41.3	17.7	10.8	41.4	19.7	11.4
Incr Delay (d2), s/veh	42.5	1.1	1.1	2.5	0.0	2.4	23.5	2.1	0.1	26.3	6.4	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	7.1	3.5	2.9	0.1	0.0	0.9	2.0	9.8	0.8	2.1	13.3	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	80.6	33.7	33.7	46.0	0.0	42.9	64.8	19.7	10.9	67.7	26.1	11.5
LnGrp LOS	F	C	C	D	A	D	E	B	B	E	C	B
Approach Vol, veh/h		781			47			2312			2673	
Approach Delay, s/veh		60.3			43.1			22.2			27.5	
Approach LOS		E			D			C			C	

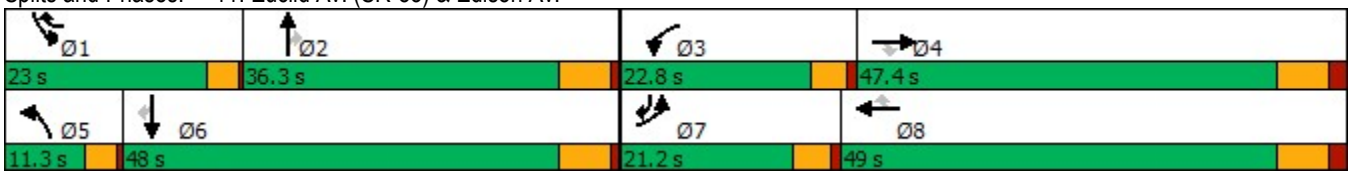
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.5	52.1	4.4	23.6	8.5	52.1	16.0	12.0
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	46.5	10.0	38.5	5.0	46.5	12.5	36.0
Max Q Clear Time (g_c+I1), s	6.1	33.1	2.2	10.3	6.0	41.5	14.5	4.2
Green Ext Time (p_c), s	0.0	10.2	0.0	1.1	0.0	4.6	0.0	0.1

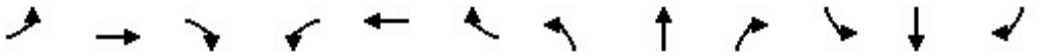
Intersection Summary	
HCM 6th Ctrl Delay	29.9
HCM 6th LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	432	865	220	415	893	722	179	1173	191	589	1682	278
Future Volume (vph)	432	865	220	415	893	722	179	1173	191	589	1682	278
Turn Type	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4		3	8	1	5	2		1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	1	5	2	2	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	46.0	46.0	9.5	49.0	8.5	8.5	29.0	29.0	8.5	40.0	9.5
Total Split (s)	21.2	47.4	47.4	22.8	49.0	23.0	11.3	36.3	36.3	23.0	48.0	21.2
Total Split (%)	16.4%	36.6%	36.6%	17.6%	37.8%	17.8%	8.7%	28.0%	28.0%	17.8%	37.1%	16.4%
Yellow Time (s)	3.5	5.0	5.0	3.5	5.0	3.0	3.0	5.0	5.0	3.0	5.0	3.5
All-Red Time (s)	1.0	2.0	2.0	1.0	2.0	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	7.0	7.0	4.5	7.0	3.5	3.5	6.0	6.0	3.5	6.0	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	16.7	36.7	36.7	18.3	38.3	61.3	7.8	30.3	30.3	19.5	42.0	60.3
Actuated g/C Ratio	0.13	0.29	0.29	0.15	0.30	0.49	0.06	0.24	0.24	0.15	0.33	0.48
v/c Ratio	1.07	0.62	0.42	0.94	0.89	0.97	0.95	1.02	0.43	1.25	1.06	0.38
Control Delay	115.7	40.6	16.1	83.3	52.8	52.2	113.0	79.0	17.9	172.7	79.7	16.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	115.7	40.6	16.1	83.3	52.8	52.2	113.0	79.0	17.9	172.7	79.7	16.2
LOS	F	D	B	F	D	D	F	E	B	F	E	B
Approach Delay		58.4			58.9			75.4			94.2	
Approach LOS		E			E			E			F	

Intersection Summary	
Cycle Length: 129.5	
Actuated Cycle Length: 125.9	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.25	
Intersection Signal Delay: 73.9	Intersection LOS: E
Intersection Capacity Utilization 101.3%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	432	865	220	415	893	722	179	1173	191	589	1682	278
Future Volume (veh/h)	432	865	220	415	893	722	179	1173	191	589	1682	278
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	445	892	124	428	921	486	185	1209	115	607	1734	153
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	415	1451	450	455	1053	704	194	1178	365	484	1633	708
Arrive On Green	0.13	0.30	0.30	0.14	0.31	0.31	0.06	0.24	0.24	0.15	0.33	0.33
Sat Flow, veh/h	3141	4914	1524	3141	3420	1521	3141	4914	1522	3141	4914	1524
Grp Volume(v), veh/h	445	892	124	428	921	486	185	1209	115	607	1734	153
Grp Sat Flow(s),veh/h/ln	1570	1638	1524	1570	1710	1521	1570	1638	1522	1570	1638	1524
Q Serve(g_s), s	16.7	19.8	7.9	17.1	32.2	31.9	7.4	30.3	7.9	19.5	42.0	7.6
Cycle Q Clear(g_c), s	16.7	19.8	7.9	17.1	32.2	31.9	7.4	30.3	7.9	19.5	42.0	7.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	415	1451	450	455	1053	704	194	1178	365	484	1633	708
V/C Ratio(X)	1.07	0.61	0.28	0.94	0.87	0.69	0.95	1.03	0.32	1.25	1.06	0.22
Avail Cap(c_a), veh/h	415	1570	487	455	1136	741	194	1178	365	484	1633	708
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.9	38.4	34.2	53.5	41.4	26.9	59.1	48.1	39.5	53.5	42.2	20.2
Incr Delay (d2), s/veh	64.9	0.6	0.3	28.0	7.4	2.6	51.1	33.2	0.5	129.9	40.9	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.2	7.8	2.9	8.3	14.1	11.5	4.2	15.3	2.9	16.1	22.0	2.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	119.8	39.0	34.5	81.5	48.9	29.5	110.3	81.3	40.0	183.4	83.1	20.3
LnGrp LOS	F	D	C	F	D	C	F	F	D	F	F	C
Approach Vol, veh/h		1461			1835			1509			2494	
Approach Delay, s/veh		63.2			51.3			81.7			103.6	
Approach LOS		E			D			F			F	

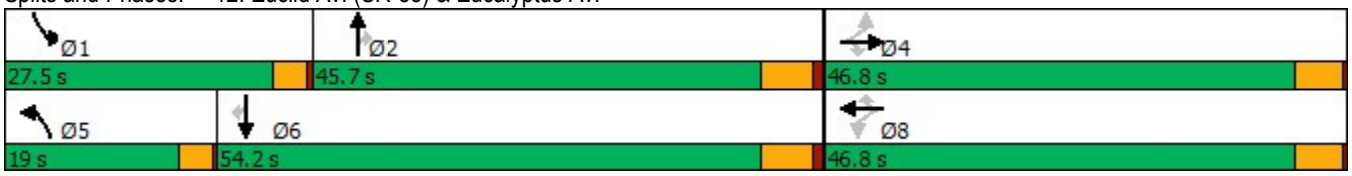
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	23.0	36.3	22.8	44.3	11.3	48.0	21.2	45.9
Change Period (Y+Rc), s	3.5	6.0	4.5	7.0	3.5	6.0	4.5	7.0
Max Green Setting (Gmax), s	19.5	30.3	18.3	40.4	7.8	42.0	16.7	42.0
Max Q Clear Time (g_c+I1), s	21.5	32.3	19.1	21.8	9.4	44.0	18.7	34.2
Green Ext Time (p_c), s	0.0	0.0	0.0	5.9	0.0	0.0	0.0	4.4

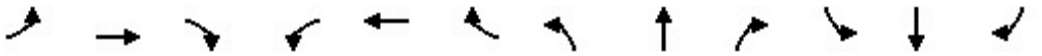
Intersection Summary	
HCM 6th Ctrl Delay	77.9
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	78	204	186	41	183	112	186	1214	142	288	1824	43
Future Volume (vph)	78	204	186	41	183	112	186	1214	142	288	1824	43
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.8	46.8	46.8	46.8	46.8	46.8	8.5	30.7	30.7	8.5	37.7	37.7
Total Split (s)	46.8	46.8	46.8	46.8	46.8	46.8	19.0	45.7	45.7	27.5	54.2	54.2
Total Split (%)	39.0%	39.0%	39.0%	39.0%	39.0%	39.0%	15.8%	38.1%	38.1%	22.9%	45.2%	45.2%
Yellow Time (s)	4.3	4.3	4.3	4.3	4.3	4.3	3.0	4.7	4.7	3.0	4.7	4.7
All-Red Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.8	4.8	4.8	4.8	4.8	4.8	3.5	5.7	5.7	3.5	5.7	5.7
Lead/Lag							Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?							Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	19.4	19.4	19.4	19.4	19.4	19.4	15.7	40.2	40.2	23.4	47.9	47.9
Actuated g/C Ratio	0.20	0.20	0.20	0.20	0.20	0.20	0.16	0.41	0.41	0.24	0.49	0.49
v/c Ratio	0.52	0.61	0.43	0.16	0.55	0.30	0.77	0.64	0.23	0.80	0.81	0.06
Control Delay	45.4	42.1	7.1	31.8	40.0	7.4	61.7	26.3	12.2	53.2	25.8	5.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.4	42.1	7.1	31.8	40.0	7.4	61.7	26.3	12.2	53.2	25.8	5.6
LOS	D	D	A	C	D	A	E	C	B	D	C	A
Approach Delay		28.8			28.2			29.3			29.1	
Approach LOS		C			C			C			C	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 97.2	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.81	
Intersection Signal Delay: 29.0	Intersection LOS: C
Intersection Capacity Utilization 80.3%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	78	204	186	41	183	112	186	1214	142	288	1824	43
Future Volume (veh/h)	78	204	186	41	183	112	186	1214	142	288	1824	43
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	84	219	115	44	197	114	200	1305	151	310	1961	34
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	198	392	332	361	392	332	231	2042	634	343	2381	738
Arrive On Green	0.22	0.22	0.22	0.22	0.22	0.22	0.14	0.42	0.42	0.21	0.48	0.48
Sat Flow, veh/h	971	1800	1525	1845	1800	1525	1619	4914	1525	1619	4914	1524
Grp Volume(v), veh/h	84	219	115	44	197	114	200	1305	151	310	1961	34
Grp Sat Flow(s),veh/h/ln	971	1800	1525	922	1800	1525	1619	1638	1525	1619	1638	1524
Q Serve(g_s), s	7.5	9.8	5.8	2.0	8.7	5.7	10.9	19.1	5.8	16.9	31.0	1.1
Cycle Q Clear(g_c), s	16.2	9.8	5.8	11.8	8.7	5.7	10.9	19.1	5.8	16.9	31.0	1.1
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	198	392	332	361	392	332	231	2042	634	343	2381	738
V/C Ratio(X)	0.42	0.56	0.35	0.12	0.50	0.34	0.86	0.64	0.24	0.90	0.82	0.05
Avail Cap(c_a), veh/h	437	835	708	815	835	708	277	2171	674	429	2632	816
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.2	31.5	29.9	36.8	31.1	29.9	37.9	21.1	17.2	34.8	20.0	12.3
Incr Delay (d2), s/veh	1.1	0.9	0.5	0.1	0.7	0.5	19.9	0.6	0.2	18.4	2.1	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.8	4.2	2.0	0.4	3.6	2.0	5.3	6.4	1.8	7.8	10.2	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	39.3	32.5	30.4	36.9	31.8	30.4	57.8	21.6	17.4	53.2	22.1	12.3
LnGrp LOS	D	C	C	D	C	C	E	C	B	D	C	B
Approach Vol, veh/h		418			355			1656			2305	
Approach Delay, s/veh		33.3			32.0			25.6			26.1	
Approach LOS		C			C			C			C	

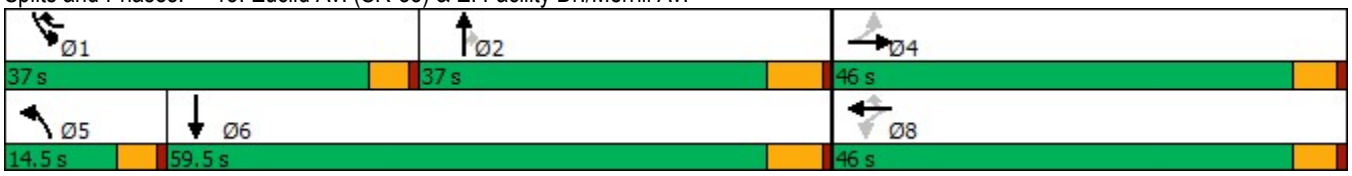
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	22.7	43.3		24.5	16.4	49.6		24.5				
Change Period (Y+Rc), s	3.5	5.7		4.8	3.5	5.7		4.8				
Max Green Setting (Gmax), s	24.0	40.0		42.0	15.5	48.5		42.0				
Max Q Clear Time (g_c+I1), s	18.9	21.1		18.2	12.9	33.0		13.8				
Green Ext Time (p_c), s	0.3	8.5		1.5	0.1	10.9		1.3				

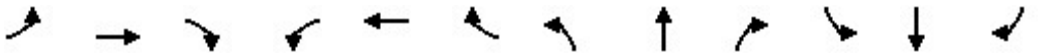
Intersection Summary			
HCM 6th Ctrl Delay		27.0	
HCM 6th LOS		C	

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	8	5	405	60	297	41	1545	629	646	1472
Future Volume (vph)	8	5	405	60	297	41	1545	629	646	1472
Turn Type	Perm	NA	Perm	NA	pm+ov	Prot	NA	Perm	Prot	NA
Protected Phases		4		8	1	5	2		1	6
Permitted Phases	4		8		8			2		
Detector Phase	4	4	8	8	1	5	2	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	15.0	15.0	10.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	46.0	14.5	14.5	28.0	28.0	14.5	28.0
Total Split (s)	46.0	46.0	46.0	46.0	37.0	14.5	37.0	37.0	37.0	59.5
Total Split (%)	38.3%	38.3%	38.3%	38.3%	30.8%	12.1%	30.8%	30.8%	30.8%	49.6%
Yellow Time (s)	4.0	4.0	4.0	4.0	3.5	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	5.0	4.5	4.5	6.0	6.0	4.5	6.0
Lead/Lag					Lead	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?					Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)	23.6	23.6	23.6	23.6	61.4	10.1	31.2	31.2	32.7	60.1
Actuated g/C Ratio	0.23	0.23	0.23	0.23	0.59	0.10	0.30	0.30	0.32	0.58
v/c Ratio	0.03	0.02	0.76	0.16	0.34	0.28	1.11	1.11	1.34	0.58
Control Delay	28.9	22.4	45.7	31.2	10.5	51.4	93.1	97.8	198.0	17.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	28.9	22.4	45.7	31.2	10.5	51.4	93.1	97.8	198.0	17.4
LOS	C	C	D	C	B	D	F	F	F	B
Approach Delay		25.6		30.8			93.6			70.8
Approach LOS		C		C			F			E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 103.2	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.34	
Intersection Signal Delay: 74.5	Intersection LOS: E
Intersection Capacity Utilization 104.0%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	8	5	4	405	60	297	41	1545	629	646	1472	67
Future Volume (veh/h)	8	5	4	405	60	297	41	1545	629	646	1472	67
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	9	5	2	431	64	178	44	1644	403	687	1566	39
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	254	251	100	646	369	812	115	1533	476	530	2802	70
Arrive On Green	0.20	0.20	0.20	0.20	0.20	0.20	0.07	0.31	0.31	0.33	0.57	0.57
Sat Flow, veh/h	1034	1223	489	2484	1800	1525	1619	4914	1525	1619	4931	123
Grp Volume(v), veh/h	9	0	7	431	64	178	44	1644	403	687	1040	565
Grp Sat Flow(s),veh/h/ln	1034	0	1712	1242	1800	1525	1619	1638	1525	1619	1638	1778
Q Serve(g_s), s	0.7	0.0	0.3	16.7	2.9	6.1	2.6	31.0	24.5	32.5	20.0	20.0
Cycle Q Clear(g_c), s	3.6	0.0	0.3	17.0	2.9	6.1	2.6	31.0	24.5	32.5	20.0	20.0
Prop In Lane	1.00		0.29	1.00		1.00	1.00		1.00	1.00		0.07
Lane Grp Cap(c), veh/h	254	0	351	646	369	812	115	1533	476	530	1862	1010
V/C Ratio(X)	0.04	0.00	0.02	0.67	0.17	0.22	0.38	1.07	0.85	1.30	0.56	0.56
Avail Cap(c_a), veh/h	469	0	706	1162	743	1128	163	1533	476	530	1862	1010
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	34.1	0.0	31.5	38.3	32.6	12.3	44.1	34.2	32.0	33.4	13.6	13.6
Incr Delay (d2), s/veh	0.0	0.0	0.0	0.4	0.1	0.0	0.8	45.1	13.3	147.3	0.4	0.7
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.1	4.8	1.2	1.8	1.0	17.5	10.0	33.1	6.1	6.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	34.1	0.0	31.5	38.8	32.6	12.4	44.9	79.3	45.3	180.7	13.9	14.3
LnGrp LOS	C	A	C	D	C	B	D	F	D	F	B	B
Approach Vol, veh/h		16			673			2091			2292	
Approach Delay, s/veh		33.0			31.2			72.0			64.0	
Approach LOS		C			C			E			E	

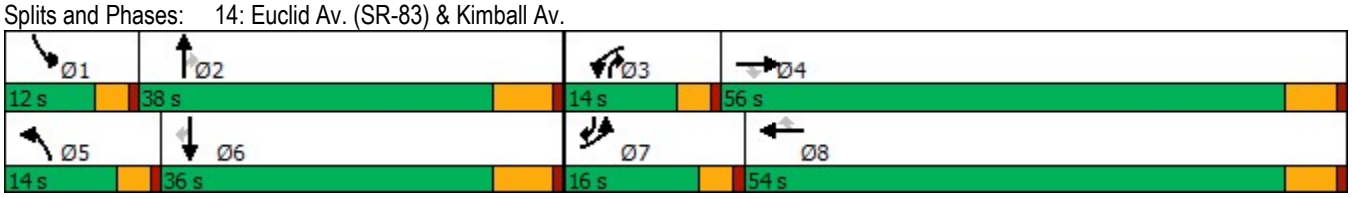
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	37.0	37.0		25.4	11.5	62.5		25.4				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	32.5	31.0		41.0	10.0	53.5		41.0				
Max Q Clear Time (g_c+I1), s	34.5	33.0		5.6	4.6	22.0		19.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	12.1		1.4				

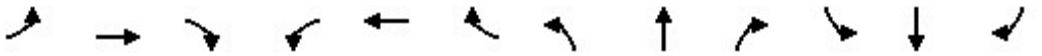
Intersection Summary			
HCM 6th Ctrl Delay		62.9	
HCM 6th LOS		E	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	360	349	67	124	1184	819	91	1230	74	231	1022	501
Future Volume (vph)	360	349	67	124	1184	819	91	1230	74	231	1022	501
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	10.0	10.0	10.0	10.0	5.0	5.0	10.0	5.0	10.0	5.0	5.0	10.0
Minimum Split (s)	14.0	49.5	49.5	14.0	47.8	47.8	14.0	36.0	14.0	9.0	33.0	14.0
Total Split (s)	16.0	56.0	56.0	14.0	54.0	54.0	14.0	38.0	14.0	12.0	36.0	16.0
Total Split (%)	13.3%	46.7%	46.7%	11.7%	45.0%	45.0%	11.7%	31.7%	11.7%	10.0%	30.0%	13.3%
Yellow Time (s)	3.0	4.8	4.8	3.0	4.8	4.8	3.0	5.5	3.0	3.0	5.5	3.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.0	5.8	5.8	4.0	5.8	5.8	4.0	6.5	4.0	4.0	6.5	4.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	12.0	50.2	50.2	10.0	48.2	48.2	10.0	31.5	48.0	8.0	29.5	44.0
Actuated g/C Ratio	0.10	0.42	0.42	0.08	0.40	0.40	0.08	0.26	0.40	0.07	0.25	0.37
v/c Ratio	1.26	0.25	0.10	0.49	0.89	1.16	0.70	0.98	0.12	1.21	0.87	0.87
Control Delay	186.1	23.3	1.6	59.4	42.8	115.6	80.7	65.6	5.4	180.6	52.6	44.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	186.1	23.3	1.6	59.4	42.8	115.6	80.7	65.6	5.4	180.6	52.6	44.9
LOS	F	C	A	E	D	F	F	E	A	F	D	D
Approach Delay		96.9			71.8			63.4			67.2	
Approach LOS		F			E			E			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 115	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.26	
Intersection Signal Delay: 71.8	Intersection LOS: E
Intersection Capacity Utilization 104.4%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	360	349	67	124	1184	819	91	1230	74	231	1022	501
Future Volume (veh/h)	360	349	67	124	1184	819	91	1230	74	231	1022	501
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	371	360	59	128	1221	666	94	1268	62	238	1054	465
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	296	1435	640	258	1374	613	129	1290	526	197	1226	528
Arrive On Green	0.10	0.42	0.42	0.08	0.40	0.40	0.08	0.26	0.26	0.07	0.25	0.25
Sat Flow, veh/h	2956	3420	1525	3141	3420	1525	1619	4914	1525	2956	4914	1506
Grp Volume(v), veh/h	371	360	59	128	1221	666	94	1268	62	238	1054	465
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1570	1710	1525	1619	1638	1525	1478	1638	1506
Q Serve(g_s), s	12.0	8.2	2.8	4.7	39.9	48.2	6.8	30.8	3.3	8.0	24.6	29.9
Cycle Q Clear(g_c), s	12.0	8.2	2.8	4.7	39.9	48.2	6.8	30.8	3.3	8.0	24.6	29.9
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	296	1435	640	258	1374	613	129	1290	526	197	1226	528
V/C Ratio(X)	1.25	0.25	0.09	0.50	0.89	1.09	0.73	0.98	0.12	1.21	0.86	0.88
Avail Cap(c_a), veh/h	296	1435	640	262	1374	613	135	1290	526	197	1226	528
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	54.0	22.6	21.0	52.7	33.4	35.9	53.9	44.0	26.9	56.0	43.0	36.7
Incr Delay (d2), s/veh	139.4	0.1	0.1	0.5	7.3	62.2	14.8	21.0	0.1	131.3	6.6	16.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.1	3.2	1.0	1.8	16.9	27.4	3.2	14.2	1.2	6.5	10.1	14.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	193.4	22.7	21.1	53.2	40.7	98.1	68.7	65.0	27.0	187.3	49.6	52.8
LnGrp LOS	F	C	C	D	D	F	E	E	C	F	D	D
Approach Vol, veh/h		790			2015			1424			1757	
Approach Delay, s/veh		102.7			60.5			63.6			69.1	
Approach LOS		F			E			E			E	

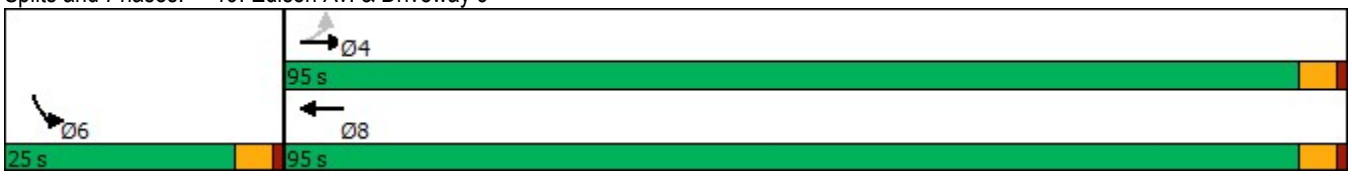
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.0	38.0	13.9	56.1	13.6	36.4	16.0	54.0
Change Period (Y+Rc), s	4.0	6.5	4.0	5.8	4.0	6.5	4.0	5.8
Max Green Setting (Gmax), s	8.0	31.5	10.0	50.2	10.0	29.5	12.0	48.2
Max Q Clear Time (g_c+I1), s	10.0	32.8	6.7	10.2	8.8	31.9	14.0	50.2
Green Ext Time (p_c), s	0.0	0.0	0.1	2.4	0.0	0.0	0.0	0.0

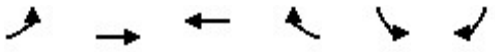
Intersection Summary	
HCM 6th Ctrl Delay	69.3
HCM 6th LOS	E

Lane Group	EBL	EBT	WBT	SBL
Lane Configurations				
Traffic Volume (vph)	212	691	926	190
Future Volume (vph)	212	691	926	190
Turn Type	Perm	NA	NA	Prot
Protected Phases		4	8	6
Permitted Phases	4			
Detector Phase	4	4	8	6
Switch Phase				
Minimum Initial (s)	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5
Total Split (s)	95.0	95.0	95.0	25.0
Total Split (%)	79.2%	79.2%	79.2%	20.8%
Yellow Time (s)	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5
Lead/Lag				
Lead-Lag Optimize?				
Recall Mode	None	None	None	Min
Act Effct Green (s)	90.5	90.5	90.5	20.5
Actuated g/C Ratio	0.75	0.75	0.75	0.17
v/c Ratio	1.11	0.52	0.78	1.00
Control Delay	113.2	7.6	13.6	97.0
Queue Delay	0.0	0.5	0.0	0.0
Total Delay	113.2	8.1	13.6	97.0
LOS	F	A	B	F
Approach Delay		32.7	13.6	97.0
Approach LOS		C	B	F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.11	
Intersection Signal Delay: 32.3	Intersection LOS: C
Intersection Capacity Utilization 93.5%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 19: Edison Av. & Driveway 9





Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	212	691	926	87	190	98
Future Volume (veh/h)	212	691	926	87	190	98
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	230	751	1007	95	207	107
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	269	1433	1289	122	195	101
Arrive On Green	0.75	0.75	0.75	0.75	0.17	0.17
Sat Flow, veh/h	520	1900	1710	161	1141	590
Grp Volume(v), veh/h	230	751	0	1102	315	0
Grp Sat Flow(s),veh/h/ln	520	1900	0	1871	1737	0
Q Serve(g_s), s	48.2	19.3	0.0	42.3	20.5	0.0
Cycle Q Clear(g_c), s	90.5	19.3	0.0	42.3	20.5	0.0
Prop In Lane	1.00			0.09	0.66	0.34
Lane Grp Cap(c), veh/h	269	1433	0	1411	297	0
V/C Ratio(X)	0.86	0.52	0.00	0.78	1.06	0.00
Avail Cap(c_a), veh/h	269	1433	0	1411	297	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	38.1	6.0	0.0	8.8	49.8	0.0
Incr Delay (d2), s/veh	22.7	0.4	0.0	2.9	69.5	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.4	5.9	0.0	13.6	14.7	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	60.8	6.3	0.0	11.7	119.2	0.0
LnGrp LOS	E	A	A	B	F	A
Approach Vol, veh/h		981	1102		315	
Approach Delay, s/veh		19.1	11.7		119.2	
Approach LOS		B	B		F	

Timer - Assigned Phs		4		6	8
Phs Duration (G+Y+Rc), s		95.0		25.0	95.0
Change Period (Y+Rc), s		4.5		4.5	4.5
Max Green Setting (Gmax), s		90.5		20.5	90.5
Max Q Clear Time (g_c+I1), s		92.5		22.5	44.3
Green Ext Time (p_c), s		0.0		0.0	11.9

Intersection Summary	
HCM 6th Ctrl Delay	28.9
HCM 6th LOS	C

Intersection	
Int Delay, s/veh	1.4

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	2	878	982	80	68	11
Future Vol, veh/h	2	878	982	80	68	11
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	100
Veh in Median Storage, #	-	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	2	954	1067	87	74	12

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1154	0	-	0	2069	1111
Stage 1	-	-	-	-	1111	-
Stage 2	-	-	-	-	958	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	613	-	-	-	~ 60	257
Stage 1	-	-	-	-	318	-
Stage 2	-	-	-	-	376	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	613	-	-	-	~ 60	257
Mov Cap-2 Maneuver	-	-	-	-	184	-
Stage 1	-	-	-	-	317	-
Stage 2	-	-	-	-	376	-

Approach	EB	WB	SB
HCM Control Delay, s	0	0	34.7
HCM LOS			D

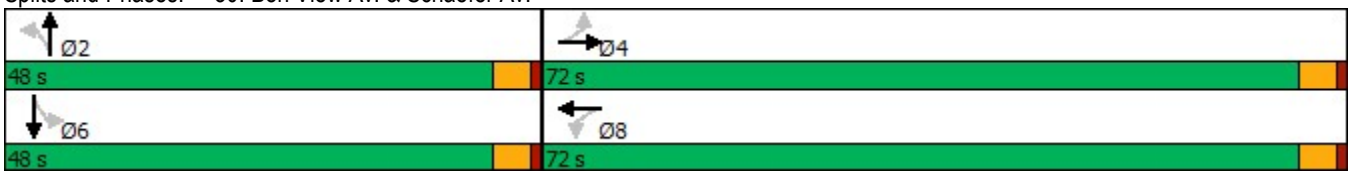
Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	613	-	-	-	184	257
HCM Lane V/C Ratio	0.004	-	-	-	0.402	0.047
HCM Control Delay (s)	10.9	-	-	-	37.1	19.7
HCM Lane LOS	B	-	-	-	E	C
HCM 95th %tile Q(veh)	0	-	-	-	1.8	0.1

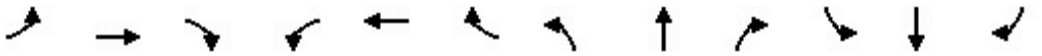
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	22	152	28	401	36	157	21	146
Future Volume (vph)	22	152	28	401	36	157	21	146
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	72.0	72.0	72.0	72.0	48.0	48.0	48.0	48.0
Total Split (%)	60.0%	60.0%	60.0%	60.0%	40.0%	40.0%	40.0%	40.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		17.3		17.3		12.0		12.0
Actuated g/C Ratio		0.45		0.45		0.31		0.31
v/c Ratio		0.28		0.60		0.46		0.45
Control Delay		7.8		11.9		14.9		14.0
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		7.8		11.9		14.9		14.0
LOS		A		B		B		B
Approach Delay		7.8		11.9		14.9		14.0
Approach LOS		A		B		B		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 38.8	
Natural Cycle: 45	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.60	
Intersection Signal Delay: 12.2	Intersection LOS: B
Intersection Capacity Utilization 54.7%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 30: Bon View Av. & Schaefer Av.



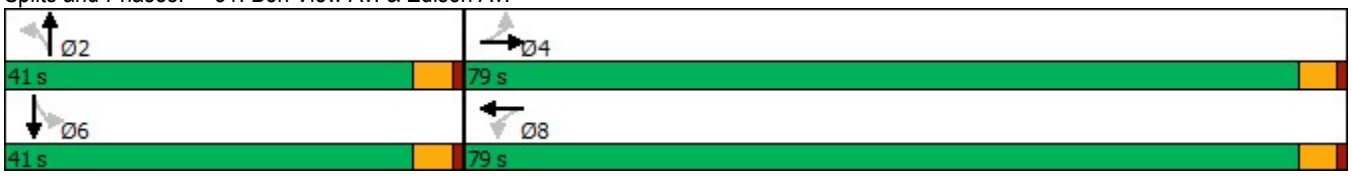


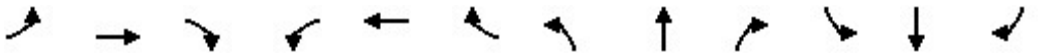
Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	22	152	23	28	401	19	36	157	30	21	146	60
Future Volume (veh/h)	22	152	23	28	401	19	36	157	30	21	146	60
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	24	167	25	31	441	21	40	173	33	23	160	66
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	186	605	84	168	698	32	204	340	60	172	303	117
Arrive On Green	0.41	0.41	0.41	0.41	0.41	0.41	0.25	0.25	0.25	0.25	0.25	0.25
Sat Flow, veh/h	82	1493	206	54	1721	79	177	1357	238	87	1210	468
Grp Volume(v), veh/h	216	0	0	493	0	0	246	0	0	249	0	0
Grp Sat Flow(s),veh/h/ln	1780	0	0	1855	0	0	1771	0	0	1765	0	0
Q Serve(g_s), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.0
Cycle Q Clear(g_c), s	2.0	0.0	0.0	5.5	0.0	0.0	3.0	0.0	0.0	3.1	0.0	0.0
Prop In Lane	0.11		0.12	0.06		0.04	0.16		0.13	0.09		0.27
Lane Grp Cap(c), veh/h	875	0	0	898	0	0	604	0	0	593	0	0
V/C Ratio(X)	0.25	0.00	0.00	0.55	0.00	0.00	0.41	0.00	0.00	0.42	0.00	0.00
Avail Cap(c_a), veh/h	4520	0	0	4856	0	0	2988	0	0	3026	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	5.2	0.0	0.0	6.3	0.0	0.0	8.5	0.0	0.0	8.5	0.0	0.0
Incr Delay (d2), s/veh	0.1	0.0	0.0	0.5	0.0	0.0	0.4	0.0	0.0	0.5	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.0	0.0	0.6	0.0	0.0	0.6	0.0	0.0	0.6	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	5.4	0.0	0.0	6.8	0.0	0.0	8.9	0.0	0.0	9.0	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	A	A	A	A	A	A
Approach Vol, veh/h		216			493			246			249	
Approach Delay, s/veh		5.4			6.8			8.9			9.0	
Approach LOS		A			A			A			A	
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		11.1		15.1		11.1		15.1				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		43.5		67.5		43.5		67.5				
Max Q Clear Time (g_c+I1), s		5.0		4.0		5.1		7.5				
Green Ext Time (p_c), s		1.4		1.3		1.4		3.2				
Intersection Summary												
HCM 6th Ctrl Delay			7.4									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	64	1404	21	1768	163	207	12	147
Future Volume (vph)	64	1404	21	1768	163	207	12	147
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	79.0	79.0	79.0	79.0	41.0	41.0	41.0	41.0
Total Split (%)	65.8%	65.8%	65.8%	65.8%	34.2%	34.2%	34.2%	34.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	74.8	74.8	74.8	74.8	29.6	29.6	29.6	29.6
Actuated g/C Ratio	0.66	0.66	0.66	0.66	0.26	0.26	0.26	0.26
v/c Ratio	1.17	0.55	0.24	0.64	0.96	0.60	0.08	0.53
Control Delay	191.1	11.7	17.0	13.3	95.3	40.8	31.7	38.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	191.1	11.7	17.0	13.3	95.3	40.8	31.7	38.2
LOS	F	B	B	B	F	D	C	D
Approach Delay		18.8		13.3		62.6		37.9
Approach LOS		B		B		E		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 113.4	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.17	
Intersection Signal Delay: 21.8	Intersection LOS: C
Intersection Capacity Utilization 74.8%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	64	1404	137	21	1768	36	163	207	38	12	147	64
Future Volume (veh/h)	64	1404	137	21	1768	36	163	207	38	12	147	64
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	77	1692	165	25	2130	43	196	249	46	14	177	77
Peak Hour Factor	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83	0.83
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	127	2996	292	165	3263	66	274	470	87	246	378	165
Arrive On Green	0.62	0.62	0.62	0.62	0.62	0.62	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	184	4806	468	252	5234	105	1143	1560	288	1101	1256	546
Grp Volume(v), veh/h	77	1216	641	25	1406	767	196	0	295	14	0	254
Grp Sat Flow(s),veh/h/ln	184	1729	1816	252	1729	1881	1143	0	1848	1101	0	1802
Q Serve(g_s), s	43.5	24.4	24.5	7.7	30.8	31.0	20.1	0.0	15.9	1.3	0.0	13.7
Cycle Q Clear(g_c), s	74.5	24.4	24.5	32.2	30.8	31.0	33.8	0.0	15.9	17.1	0.0	13.7
Prop In Lane	1.00		0.26	1.00		0.06	1.00		0.16	1.00		0.30
Lane Grp Cap(c), veh/h	127	2156	1132	165	2156	1173	274	0	557	246	0	543
V/C Ratio(X)	0.60	0.56	0.57	0.15	0.65	0.65	0.72	0.00	0.53	0.06	0.00	0.47
Avail Cap(c_a), veh/h	127	2156	1132	165	2156	1173	278	0	564	250	0	550
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	40.8	13.1	13.1	22.5	14.3	14.3	47.7	0.0	34.7	41.8	0.0	34.0
Incr Delay (d2), s/veh	7.8	0.3	0.7	0.4	0.7	1.3	8.4	0.0	0.9	0.1	0.0	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.6	8.5	9.1	0.5	10.8	12.0	6.2	0.0	7.0	0.3	0.0	5.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	48.6	13.4	13.8	22.9	15.0	15.6	56.1	0.0	35.6	41.9	0.0	34.6
LnGrp LOS	D	B	B	C	B	B	E	A	D	D	A	C
Approach Vol, veh/h		1934			2198			491			268	
Approach Delay, s/veh		14.9			15.3			43.8			35.0	
Approach LOS		B			B			D			C	

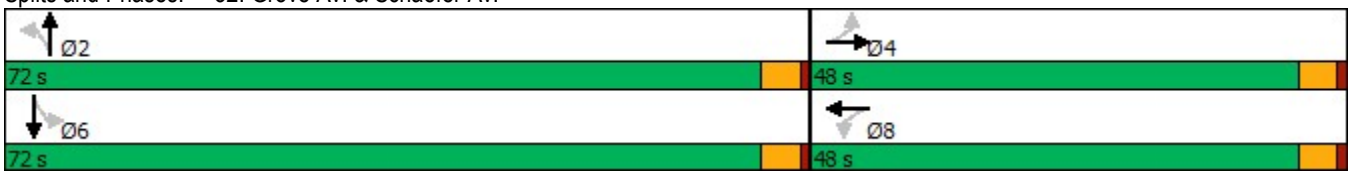
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		40.5		79.0		40.5		79.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		36.5		74.5		36.5		74.5				
Max Q Clear Time (g_c+I1), s		35.8		76.5		19.1		34.2				
Green Ext Time (p_c), s		0.2		0.0		1.2		23.8				

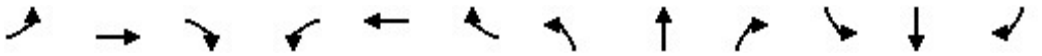
Intersection Summary												
HCM 6th Ctrl Delay			19.1									
HCM 6th LOS			B									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	52	128	51	313	54	634	58	531
Future Volume (vph)	52	128	51	313	54	634	58	531
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	48.0	48.0	48.0	48.0	72.0	72.0	72.0	72.0
Total Split (%)	40.0%	40.0%	40.0%	40.0%	60.0%	60.0%	60.0%	60.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	10.3	10.3	10.3	10.3	13.2	13.2	13.2	13.2
Actuated g/C Ratio	0.31	0.31	0.31	0.31	0.40	0.40	0.40	0.40
v/c Ratio	0.17	0.16	0.14	0.35	0.18	0.47	0.21	0.43
Control Delay	10.3	7.2	9.6	9.4	8.9	8.8	9.4	8.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	10.3	7.2	9.6	9.4	8.9	8.8	9.4	8.4
LOS	B	A	A	A	A	A	A	A
Approach Delay		7.9		9.4		8.8		8.5
Approach LOS		A		A		A		A

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 32.9	
Natural Cycle: 45	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.47	
Intersection Signal Delay: 8.7	Intersection LOS: A
Intersection Capacity Utilization 52.3%	ICU Level of Service A
Analysis Period (min) 15	

Splits and Phases: 32: Grove Av. & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	52	128	41	51	313	64	54	634	23	58	531	69
Future Volume (veh/h)	52	128	41	51	313	64	54	634	23	58	531	69
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	54	133	43	53	326	67	56	660	24	60	553	72
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	426	689	215	526	761	154	503	1482	54	481	1340	174
Arrive On Green	0.25	0.25	0.25	0.25	0.25	0.25	0.42	0.42	0.42	0.42	0.42	0.42
Sat Flow, veh/h	1007	2709	844	1228	2989	607	813	3553	129	769	3213	417
Grp Volume(v), veh/h	54	87	89	53	195	198	56	335	349	60	310	315
Grp Sat Flow(s),veh/h/ln	1007	1805	1748	1228	1805	1791	813	1805	1877	769	1805	1825
Q Serve(g_s), s	1.3	1.0	1.1	1.0	2.5	2.5	1.4	3.6	3.6	1.7	3.3	3.3
Cycle Q Clear(g_c), s	3.8	1.0	1.1	2.1	2.5	2.5	4.8	3.6	3.6	5.3	3.3	3.3
Prop In Lane	1.00		0.48	1.00		0.34	1.00		0.07	1.00		0.23
Lane Grp Cap(c), veh/h	426	459	445	526	459	456	503	753	783	481	753	761
V/C Ratio(X)	0.13	0.19	0.20	0.10	0.42	0.43	0.11	0.45	0.45	0.12	0.41	0.41
Avail Cap(c_a), veh/h	1767	2864	2774	2162	2864	2842	2165	4445	4621	2055	4445	4494
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	10.2	8.0	8.0	8.8	8.5	8.6	7.3	5.7	5.7	7.6	5.6	5.6
Incr Delay (d2), s/veh	0.1	0.2	0.2	0.1	0.6	0.7	0.1	0.4	0.4	0.1	0.4	0.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	0.2	0.2	0.1	0.5	0.5	0.1	0.3	0.4	0.1	0.3	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	10.3	8.2	8.2	8.9	9.2	9.2	7.4	6.1	6.1	7.7	6.0	6.0
LnGrp LOS	B	A	A	A	A	A	A	A	A	A	A	A
Approach Vol, veh/h		230			446			740			685	
Approach Delay, s/veh		8.7			9.2			6.2			6.1	
Approach LOS		A			A			A			A	

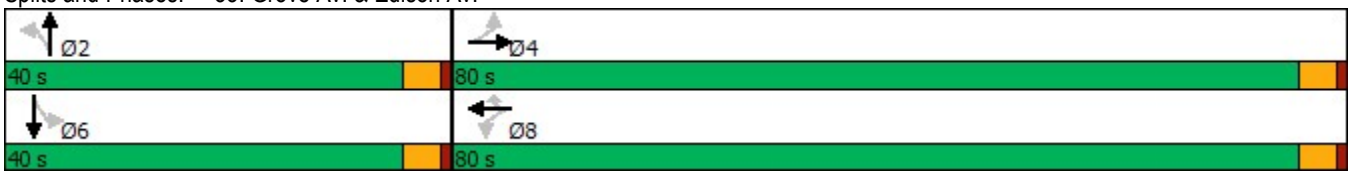
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		15.9		11.5		15.9		11.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		67.5		43.5		67.5		43.5				
Max Q Clear Time (g_c+I1), s		6.8		5.8		7.3		4.5				
Green Ext Time (p_c), s		4.4		1.2		4.1		2.4				

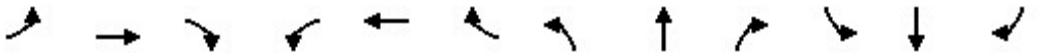
Intersection Summary												
HCM 6th Ctrl Delay			7.1									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	240	1487	99	1677	103	174	385	62	518
Future Volume (vph)	240	1487	99	1677	103	174	385	62	518
Turn Type	Perm	NA	Perm	NA	Perm	Perm	NA	Perm	NA
Protected Phases		4		8			2		6
Permitted Phases	4		8		8	2		6	
Detector Phase	4	4	8	8	8	2	2	6	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	80.0	80.0	80.0	80.0	80.0	40.0	40.0	40.0	40.0
Total Split (%)	66.7%	66.7%	66.7%	66.7%	66.7%	33.3%	33.3%	33.3%	33.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	75.5	75.5	75.5	75.5	75.5	35.5	35.5	35.5	35.5
Actuated g/C Ratio	0.63	0.63	0.63	0.63	0.63	0.30	0.30	0.30	0.30
v/c Ratio	2.20	0.62	1.31	0.53	0.11	1.49	0.41	0.32	0.62
Control Delay	585.8	13.9	231.1	13.0	1.9	291.4	34.9	38.3	38.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	585.8	13.9	231.1	13.0	1.9	291.4	34.9	38.3	38.4
LOS	F	B	F	B	A	F	C	D	D
Approach Delay		76.8		23.9			111.6		38.4
Approach LOS		E		C			F		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 45	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 2.20	
Intersection Signal Delay: 57.0	Intersection LOS: E
Intersection Capacity Utilization 93.3%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	240	1487	453	99	1677	103	174	385	22	62	518	100
Future Volume (veh/h)	240	1487	453	99	1677	103	174	385	22	62	518	100
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	255	1582	376	105	1784	57	185	410	12	66	551	69
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	162	2659	626	142	3398	960	166	1030	30	237	928	116
Arrive On Green	0.63	0.63	0.63	0.63	0.63	0.63	0.30	0.30	0.30	0.30	0.30	0.30
Sat Flow, veh/h	229	4226	995	204	5400	1525	731	3480	102	877	3138	392
Grp Volume(v), veh/h	255	1345	613	105	1784	57	185	212	210	66	315	305
Grp Sat Flow(s),veh/h/ln	229	1800	1621	204	1800	1525	731	1800	1782	877	1800	1729
Q Serve(g_s), s	53.5	26.5	27.0	48.5	22.0	1.7	17.4	11.3	11.3	7.8	18.0	18.1
Cycle Q Clear(g_c), s	75.5	26.5	27.0	75.5	22.0	1.7	35.5	11.3	11.3	19.1	18.0	18.1
Prop In Lane	1.00		0.61	1.00		1.00	1.00		0.06	1.00		0.23
Lane Grp Cap(c), veh/h	162	2265	1020	142	3398	960	166	533	527	237	533	512
V/C Ratio(X)	1.57	0.59	0.60	0.74	0.53	0.06	1.11	0.40	0.40	0.28	0.59	0.60
Avail Cap(c_a), veh/h	162	2265	1020	142	3398	960	166	533	527	237	533	512
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	43.1	13.2	13.3	41.0	12.3	8.6	54.4	33.7	33.7	41.4	36.1	36.1
Incr Delay (d2), s/veh	285.9	0.4	1.0	18.2	0.1	0.0	103.5	0.5	0.5	0.6	1.8	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	17.7	9.6	8.9	3.8	7.8	0.5	9.7	4.8	4.8	1.7	7.8	7.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	329.0	13.6	14.3	59.2	12.5	8.6	158.0	34.2	34.2	42.0	37.8	38.0
LnGrp LOS	F	B	B	E	B	A	F	C	C	D	D	D
Approach Vol, veh/h		2213			1946			607			686	
Approach Delay, s/veh		50.1			14.9			71.9			38.3	
Approach LOS		D			B			E			D	

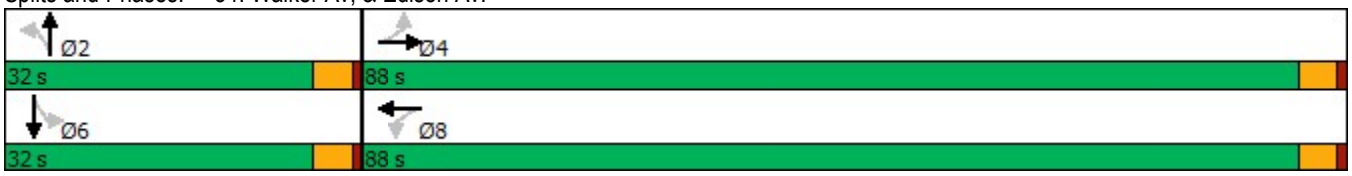
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		40.0		80.0		40.0		80.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		35.5		75.5		35.5		75.5				
Max Q Clear Time (g_c+I1), s		37.5		77.5		21.1		77.5				
Green Ext Time (p_c), s		0.0		0.0		3.2		0.0				

Intersection Summary												
HCM 6th Ctrl Delay			38.5									
HCM 6th LOS			D									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	59	1599	285	2312	54	173	204	274
Future Volume (vph)	59	1599	285	2312	54	173	204	274
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	88.0	88.0	88.0	88.0	32.0	32.0	32.0	32.0
Total Split (%)	73.3%	73.3%	73.3%	73.3%	26.7%	26.7%	26.7%	26.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	83.5	83.5	83.5	83.5	27.5	27.5	27.5	27.5
Actuated g/C Ratio	0.70	0.70	0.70	0.70	0.23	0.23	0.23	0.23
v/c Ratio	0.87	0.33	1.69	0.49	0.58	0.67	1.61	0.77
Control Delay	99.5	7.3	353.6	8.7	67.4	47.4	340.2	55.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	99.5	7.3	353.6	8.7	67.4	47.4	340.2	55.9
LOS	F	A	F	A	E	D	F	E
Approach Delay		10.4		44.4		50.6		166.6
Approach LOS		B		D		D		F

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 45	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.69	
Intersection Signal Delay: 45.7	Intersection LOS: D
Intersection Capacity Utilization 82.2%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 34: Walker Av, & Edison Av.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	1599	85	285	2312	157	54	173	105	204	274	47
Future Volume (veh/h)	59	1599	85	285	2312	157	54	173	105	204	274	47
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	61	1666	89	297	2408	164	56	180	109	212	285	49
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	127	4975	266	228	4896	332	123	254	154	148	362	62
Arrive On Green	0.70	0.70	0.70	0.70	0.70	0.70	0.23	0.23	0.23	0.23	0.23	0.23
Sat Flow, veh/h	124	7149	382	278	7037	477	1063	1108	671	1107	1580	272
Grp Volume(v), veh/h	61	1328	427	297	1949	623	56	0	289	212	0	334
Grp Sat Flow(s),veh/h/ln	124	1900	1831	278	1900	1814	1063	0	1779	1107	0	1851
Q Serve(g_s), s	53.8	11.1	11.1	72.4	19.0	19.1	6.3	0.0	17.9	9.6	0.0	20.4
Cycle Q Clear(g_c), s	72.9	11.1	11.1	83.5	19.0	19.1	26.6	0.0	17.9	27.5	0.0	20.4
Prop In Lane	1.00		0.21	1.00		0.26	1.00		0.38	1.00		0.15
Lane Grp Cap(c), veh/h	127	3966	1274	228	3966	1262	123	0	408	148	0	424
V/C Ratio(X)	0.48	0.33	0.33	1.30	0.49	0.49	0.45	0.00	0.71	1.43	0.00	0.79
Avail Cap(c_a), veh/h	127	3966	1274	228	3966	1262	123	0	408	148	0	424
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	25.3	7.2	7.2	33.3	8.4	8.5	56.0	0.0	42.6	57.2	0.0	43.5
Incr Delay (d2), s/veh	2.8	0.0	0.2	165.3	0.1	0.3	2.6	0.0	5.6	227.9	0.0	9.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	3.8	3.7	17.2	6.5	6.4	1.7	0.0	8.3	13.8	0.0	10.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	28.2	7.3	7.4	198.6	8.5	8.8	58.6	0.0	48.2	285.0	0.0	53.0
LnGrp LOS	C	A	A	F	A	A	E	A	D	F	A	D
Approach Vol, veh/h		1816			2869			345			546	
Approach Delay, s/veh		8.0			28.3			49.9			143.1	
Approach LOS		A			C			D			F	

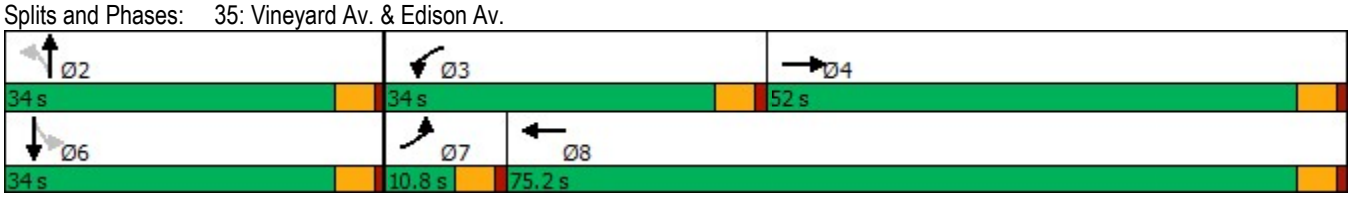
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		32.0		88.0		32.0		88.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		27.5		83.5		27.5		83.5				
Max Q Clear Time (g_c+I1), s		28.6		74.9		29.5		85.5				
Green Ext Time (p_c), s		0.0		7.1		0.0		0.0				

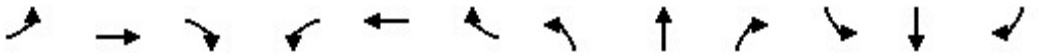
Intersection Summary												
HCM 6th Ctrl Delay			34.2									
HCM 6th LOS			C									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	35	1634	301	2310	77	164	64	92
Future Volume (vph)	35	1634	301	2310	77	164	64	92
Turn Type	Prot	NA	Prot	NA	Perm	NA	Perm	NA
Protected Phases	7	4	3	8		2		6
Permitted Phases					2		6	
Detector Phase	7	4	3	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.6	21.6	9.6	21.6	21.6	21.6	21.6	21.6
Total Split (s)	10.8	52.0	34.0	75.2	34.0	34.0	34.0	34.0
Total Split (%)	9.0%	43.3%	28.3%	62.7%	28.3%	28.3%	28.3%	28.3%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lead	Lag				
Lead-Lag Optimize?	Yes	Yes	Yes	Yes				
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	6.0	42.0	22.7	63.8	20.9	20.9	20.9	20.9
Actuated g/C Ratio	0.06	0.42	0.23	0.64	0.21	0.21	0.21	0.21
v/c Ratio	0.36	0.85	0.80	0.77	0.33	0.79	0.75	0.30
Control Delay	61.6	31.9	53.8	16.8	40.4	50.6	85.0	35.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	61.6	31.9	53.8	16.8	40.4	50.6	85.0	35.8
LOS	E	C	D	B	D	D	F	D
Approach Delay		32.5		21.0		48.4		54.1
Approach LOS		C		C		D		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 100	
Natural Cycle: 80	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.85	
Intersection Signal Delay: 28.2	Intersection LOS: C
Intersection Capacity Utilization 85.2%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 35: Vineyard Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	35	1634	57	301	2310	41	77	164	121	64	92	17
Future Volume (veh/h)	35	1634	57	301	2310	41	77	164	121	64	92	17
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	38	1776	62	327	2511	45	84	178	132	70	100	18
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	60	2110	74	363	3030	54	339	247	184	171	383	69
Arrive On Green	0.03	0.41	0.41	0.20	0.58	0.58	0.24	0.24	0.24	0.24	0.24	0.24
Sat Flow, veh/h	1810	5146	180	1810	5247	94	1366	1013	751	1147	1567	282
Grp Volume(v), veh/h	38	1193	645	327	1652	904	84	0	310	70	0	118
Grp Sat Flow(s),veh/h/ln	1810	1729	1868	1810	1729	1883	1366	0	1765	1147	0	1849
Q Serve(g_s), s	2.0	29.6	29.6	16.8	36.8	37.1	5.0	0.0	15.3	5.7	0.0	4.9
Cycle Q Clear(g_c), s	2.0	29.6	29.6	16.8	36.8	37.1	9.9	0.0	15.3	21.0	0.0	4.9
Prop In Lane	1.00		0.10	1.00		0.05	1.00		0.43	1.00		0.15
Lane Grp Cap(c), veh/h	60	1418	766	363	1997	1088	339	0	431	171	0	452
V/C Ratio(X)	0.63	0.84	0.84	0.90	0.83	0.83	0.25	0.00	0.72	0.41	0.00	0.26
Avail Cap(c_a), veh/h	118	1722	930	559	2565	1397	427	0	545	245	0	571
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	45.4	25.3	25.3	37.1	16.3	16.3	33.0	0.0	33.0	42.6	0.0	29.0
Incr Delay (d2), s/veh	4.0	2.8	5.1	8.8	1.5	2.8	0.1	0.0	2.2	0.6	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.9	11.3	12.7	7.8	12.1	13.7	1.6	0.0	6.4	1.6	0.0	2.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	49.4	28.1	30.4	45.9	17.7	19.1	33.2	0.0	35.1	43.2	0.0	29.1
LnGrp LOS	D	C	C	D	B	B	C	A	D	D	A	C
Approach Vol, veh/h		1876			2883			394			188	
Approach Delay, s/veh		29.3			21.4			34.7			34.4	
Approach LOS		C			C			C			C	

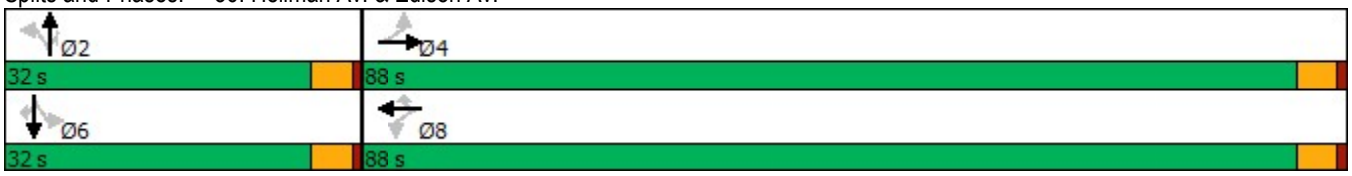
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		27.8	23.7	43.6		27.8	7.8	59.6				
Change Period (Y+Rc), s		4.6	4.6	4.6		4.6	4.6	4.6				
Max Green Setting (Gmax), s		29.4	29.4	47.4		29.4	6.2	70.6				
Max Q Clear Time (g_c+I1), s		17.3	18.8	31.6		23.0	4.0	39.1				
Green Ext Time (p_c), s		1.0	0.3	7.1		0.2	0.0	15.8				

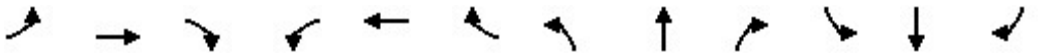
Intersection Summary	
HCM 6th Ctrl Delay	25.6
HCM 6th LOS	C

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	37	1754	318	2286	42	82	182	139	64	92	14
Future Volume (vph)	37	1754	318	2286	42	82	182	139	64	92	14
Turn Type	Perm	NA	Perm	NA	Perm	Perm	NA	Perm	Perm	NA	Perm
Protected Phases		4		8			2			6	
Permitted Phases	4		8		8	2		2	6		6
Detector Phase	4	4	8	8	8	2	2	2	6	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
Total Split (s)	88.0	88.0	88.0	88.0	88.0	32.0	32.0	32.0	32.0	32.0	32.0
Total Split (%)	73.3%	73.3%	73.3%	73.3%	73.3%	26.7%	26.7%	26.7%	26.7%	26.7%	26.7%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Lead/Lag											
Lead-Lag Optimize?											
Recall Mode	None	None	None	None	None	Min	Min	Min	Min	Min	Min
Act Effct Green (s)	83.5	83.5	83.5	83.5	83.5	15.7	15.7	15.7	15.7	15.7	15.7
Actuated g/C Ratio	0.77	0.77	0.77	0.77	0.77	0.14	0.14	0.14	0.14	0.14	0.14
v/c Ratio	0.57	0.71	3.46	0.89	0.04	0.49	0.72	0.59	0.71	0.36	0.06
Control Delay	45.1	8.9	1138.9	15.9	1.7	52.0	59.1	45.1	80.8	45.1	17.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	45.1	8.9	1138.9	15.9	1.7	52.0	59.1	45.1	80.8	45.1	17.8
LOS	D	A	F	B	A	D	E	D	F	D	B
Approach Delay		9.6		150.7			52.8			56.4	
Approach LOS		A		F			D			E	

Intersection Summary		
Cycle Length: 120		
Actuated Cycle Length: 108.5		
Natural Cycle: 120		
Control Type: Actuated-Uncoordinated		
Maximum v/c Ratio: 3.46		
Intersection Signal Delay: 88.3	Intersection LOS: F	
Intersection Capacity Utilization 97.1%	ICU Level of Service F	
Analysis Period (min) 15		

Splits and Phases: 36: Hellman Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	37	1754	61	318	2286	42	82	182	139	64	92	14
Future Volume (veh/h)	37	1754	61	318	2286	42	82	182	139	64	92	14
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	40	1907	66	346	2485	46	89	198	151	70	100	15
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	87	2636	91	168	2673	1192	245	338	286	155	338	286
Arrive On Green	0.74	0.74	0.74	0.74	0.74	0.74	0.18	0.18	0.18	0.18	0.18	0.18
Sat Flow, veh/h	136	3560	122	237	3610	1610	1370	1900	1610	1106	1900	1610
Grp Volume(v), veh/h	40	961	1012	346	2485	46	89	198	151	70	100	15
Grp Sat Flow(s),veh/h/ln	136	1805	1878	237	1805	1610	1370	1900	1610	1106	1900	1610
Q Serve(g_s), s	18.8	33.3	34.2	49.2	64.6	0.9	6.8	10.8	9.6	7.0	5.1	0.9
Cycle Q Clear(g_c), s	83.4	33.3	34.2	83.4	64.6	0.9	11.9	10.8	9.6	17.8	5.1	0.9
Prop In Lane	1.00		0.07	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	87	1336	1390	168	2673	1192	245	338	286	155	338	286
V/C Ratio(X)	0.46	0.72	0.73	2.07	0.93	0.04	0.36	0.59	0.53	0.45	0.30	0.05
Avail Cap(c_a), veh/h	87	1336	1390	168	2673	1192	335	462	392	227	462	392
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.0	8.1	8.2	41.1	12.2	3.9	45.4	42.5	42.0	50.6	40.2	38.4
Incr Delay (d2), s/veh	1.4	1.6	1.7	499.3	6.4	0.0	0.3	0.6	0.6	0.8	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	9.5	10.2	27.8	19.7	0.2	2.3	5.1	3.8	2.0	2.4	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	52.4	9.8	9.9	540.4	18.6	3.9	45.7	43.1	42.6	51.4	40.4	38.4
LnGrp LOS	D	A	A	F	B	A	D	D	D	D	D	D
Approach Vol, veh/h		2013			2877			438			185	
Approach Delay, s/veh		10.7			81.1			43.4			44.4	
Approach LOS		B			F			D			D	

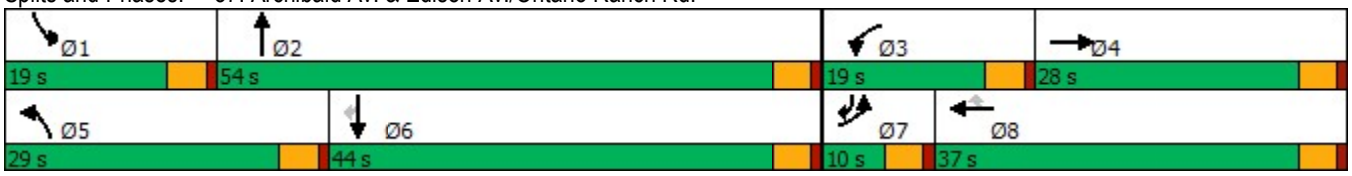
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		24.6		88.0		24.6		88.0				
Change Period (Y+Rc), s		4.6		4.6		4.6		4.6				
Max Green Setting (Gmax), s		27.4		83.4		27.4		83.4				
Max Q Clear Time (g_c+I1), s		13.9		85.4		19.8		85.4				
Green Ext Time (p_c), s		1.0		0.0		0.3		0.0				

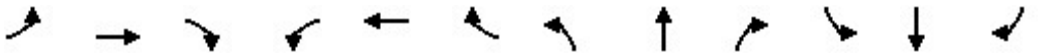
Intersection Summary												
HCM 6th Ctrl Delay			51.2									
HCM 6th LOS			D									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	116	785	212	603	1323	132	518	1386	933	169	957	303
Future Volume (vph)	116	785	212	603	1323	132	518	1386	933	169	957	303
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2		1	6	7
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	9.5
Total Split (s)	10.0	28.0		19.0	37.0	37.0	29.0	54.0		19.0	44.0	10.0
Total Split (%)	8.3%	23.3%		15.8%	30.8%	30.8%	24.2%	45.0%		15.8%	36.7%	8.3%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	None
Act Effct Green (s)	5.5	22.5	107.7	14.6	31.5	31.5	23.0	40.9	107.7	11.5	29.5	35.0
Actuated g/C Ratio	0.05	0.21	1.00	0.14	0.29	0.29	0.21	0.38	1.00	0.11	0.27	0.32
v/c Ratio	0.81	0.57	0.15	1.61	0.80	0.27	0.85	0.74	0.68	0.56	0.71	0.57
Control Delay	88.7	40.9	0.2	316.5	40.1	6.7	55.0	31.5	2.5	53.6	38.2	19.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	88.7	40.9	0.2	316.5	40.1	6.7	55.0	31.5	2.5	53.6	38.2	19.5
LOS	F	D	A	F	D	A	D	C	A	D	D	B
Approach Delay		38.1			119.0			26.2			36.1	
Approach LOS		D			F			C			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 107.7	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.61	
Intersection Signal Delay: 55.6	Intersection LOS: E
Intersection Capacity Utilization 83.5%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	116	785	212	603	1323	132	518	1386	933	169	957	303
Future Volume (veh/h)	116	785	212	603	1323	132	518	1386	933	169	957	303
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	127	863	0	663	1454	122	569	1523	0	186	1052	322
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	164	1460		432	1800	438	642	2158		251	1485	496
Arrive On Green	0.05	0.20	0.00	0.14	0.29	0.29	0.20	0.40	0.00	0.08	0.27	0.27
Sat Flow, veh/h	3048	7200	1525	3048	6192	1506	3141	5400	1525	3141	5400	1505
Grp Volume(v), veh/h	127	863	0	663	1454	122	569	1523	0	186	1052	322
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1548	1506	1570	1800	1525	1570	1800	1505
Q Serve(g_s), s	4.2	11.1	0.0	14.5	22.3	6.4	18.0	24.1	0.0	5.9	17.9	18.7
Cycle Q Clear(g_c), s	4.2	11.1	0.0	14.5	22.3	6.4	18.0	24.1	0.0	5.9	17.9	18.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	164	1460		432	1800	438	642	2158		251	1485	496
V/C Ratio(X)	0.77	0.59		1.53	0.81	0.28	0.89	0.71		0.74	0.71	0.65
Avail Cap(c_a), veh/h	164	1655		432	1968	479	753	2614		445	2086	663
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	47.8	36.9	0.0	43.9	33.6	28.0	39.5	25.7	0.0	46.0	33.4	29.3
Incr Delay (d2), s/veh	20.3	0.4	0.0	251.8	2.4	0.3	11.0	0.7	0.0	4.3	0.7	1.4
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	2.0	4.7	0.0	20.3	8.1	2.2	7.4	9.3	0.0	2.3	7.3	6.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	68.1	37.4	0.0	295.6	36.0	28.3	50.6	26.4	0.0	50.3	34.0	30.8
LnGrp LOS	E	D		F	D	C	D	C		D	C	C
Approach Vol, veh/h		990	A		2239			2092	A		1560	
Approach Delay, s/veh		41.3			112.5			32.9			35.3	
Approach LOS		D			F			C			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	12.7	45.4	19.0	25.2	25.4	32.6	10.0	34.2
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	49.5	14.5	23.5	24.5	39.5	5.5	32.5
Max Q Clear Time (g_c+I1), s	7.9	26.1	16.5	13.1	20.0	20.7	6.2	24.3
Green Ext Time (p_c), s	0.3	10.6	0.0	3.8	0.9	7.4	0.0	5.5

Intersection Summary	
HCM 6th Ctrl Delay	60.6
HCM 6th LOS	E

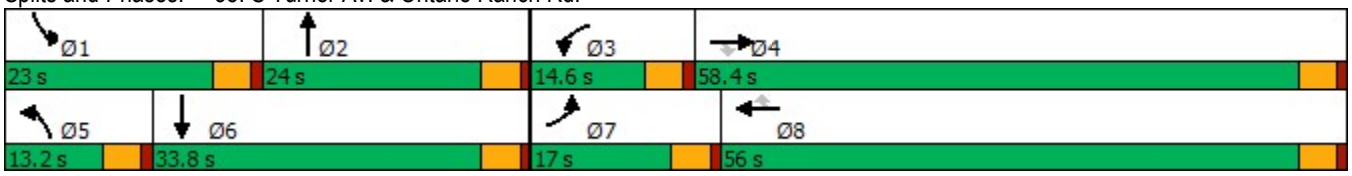
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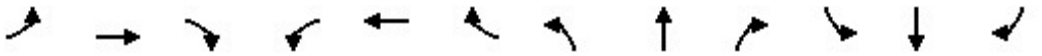
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	148	1670	18	63	2033	50	44	157	215	86
Future Volume (vph)	148	1670	18	63	2033	50	44	157	215	86
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	17.0	58.4	58.4	14.6	56.0	56.0	13.2	24.0	23.0	33.8
Total Split (%)	14.2%	48.7%	48.7%	12.2%	46.7%	46.7%	11.0%	20.0%	19.2%	28.2%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	12.3	57.3	57.3	8.9	51.6	51.6	7.7	17.2	17.7	29.3
Actuated g/C Ratio	0.11	0.49	0.49	0.08	0.44	0.44	0.07	0.15	0.15	0.25
v/c Ratio	0.86	0.73	0.02	0.51	0.99	0.07	0.41	0.79	0.88	0.53
Control Delay	89.9	27.3	0.1	66.1	48.8	0.2	64.0	67.0	79.5	33.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	89.9	27.3	0.1	66.1	48.8	0.2	64.0	67.0	79.5	33.0
LOS	F	C	A	E	D	A	E	E	E	C
Approach Delay		32.0			48.2			66.4		55.4
Approach LOS		C			D			E		E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.8	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.99	
Intersection Signal Delay: 43.5	Intersection LOS: D
Intersection Capacity Utilization 85.1%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	148	1670	18	63	2033	50	44	157	41	215	86	145
Future Volume (veh/h)	148	1670	18	63	2033	50	44	157	41	215	86	145
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	164	1856	20	70	2259	56	49	174	46	239	96	161
Peak Hour Factor	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90	0.90
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	192	2625	815	90	2334	725	64	200	53	268	160	269
Arrive On Green	0.11	0.51	0.51	0.05	0.45	0.45	0.04	0.14	0.14	0.15	0.25	0.25
Sat Flow, veh/h	1810	5187	1610	1810	5187	1610	1810	1448	383	1810	638	1070
Grp Volume(v), veh/h	164	1856	20	70	2259	56	49	0	220	239	0	257
Grp Sat Flow(s),veh/h/ln	1810	1729	1610	1810	1729	1610	1810	0	1831	1810	0	1707
Q Serve(g_s), s	10.2	31.5	0.7	4.4	48.5	2.3	3.1	0.0	13.5	14.8	0.0	15.2
Cycle Q Clear(g_c), s	10.2	31.5	0.7	4.4	48.5	2.3	3.1	0.0	13.5	14.8	0.0	15.2
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.21	1.00		0.63
Lane Grp Cap(c), veh/h	192	2625	815	90	2334	725	64	0	253	268	0	429
V/C Ratio(X)	0.85	0.71	0.02	0.77	0.97	0.08	0.77	0.00	0.87	0.89	0.00	0.60
Avail Cap(c_a), veh/h	198	2625	815	160	2337	725	138	0	312	293	0	438
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	50.2	21.7	14.1	53.7	30.6	17.9	54.7	0.0	48.2	47.8	0.0	37.7
Incr Delay (d2), s/veh	28.1	0.9	0.0	13.1	12.0	0.0	17.6	0.0	19.0	25.8	0.0	2.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.0	11.9	0.2	2.3	21.1	0.8	1.7	0.0	7.3	8.4	0.0	6.4
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	78.3	22.6	14.1	66.7	42.7	18.0	72.3	0.0	67.2	73.6	0.0	39.9
LnGrp LOS	E	C	B	E	D	B	E	A	E	E	A	D
Approach Vol, veh/h		2040			2385			269			496	
Approach Delay, s/veh		27.0			42.8			68.2			56.1	
Approach LOS		C			D			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	21.4	20.3	10.2	62.4	8.5	33.2	16.6	55.9
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	18.5	19.5	10.1	53.9	8.7	29.3	12.5	51.5
Max Q Clear Time (g_c+I1), s	16.8	15.5	6.4	33.5	5.1	17.2	12.2	50.5
Green Ext Time (p_c), s	0.1	0.4	0.0	13.1	0.0	1.1	0.0	0.9

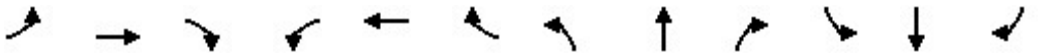
Intersection Summary	
HCM 6th Ctrl Delay	39.2
HCM 6th LOS	D

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	260	1704	51	107	1498	183	101	350	175	446	437	226
Future Volume (vph)	260	1704	51	107	1498	183	101	350	175	446	437	226
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	24.7	47.4	47.4	9.9	32.6	32.6	20.7	23.3	23.3	39.4	42.0	42.0
Total Split (%)	20.6%	39.5%	39.5%	8.3%	27.2%	27.2%	17.3%	19.4%	19.4%	32.8%	35.0%	35.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	20.2	42.9	42.9	5.4	28.1	28.1	12.8	17.1	17.1	34.9	39.3	39.3
Actuated g/C Ratio	0.17	0.36	0.36	0.05	0.24	0.24	0.11	0.14	0.14	0.29	0.33	0.33
v/c Ratio	1.02	1.03	0.09	0.86	1.10	0.38	0.63	0.76	0.51	1.01	0.41	0.37
Control Delay	108.3	66.6	0.3	103.8	96.8	7.5	66.3	59.3	13.1	85.8	32.5	5.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	108.3	66.6	0.3	103.8	96.8	7.5	66.3	59.3	13.1	85.8	32.5	5.5
LOS	F	E	A	F	F	A	E	E	B	F	C	A
Approach Delay		70.3			88.1			47.5			48.4	
Approach LOS		E			F			D			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 118.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.10	
Intersection Signal Delay: 69.1	Intersection LOS: E
Intersection Capacity Utilization 92.0%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	260	1704	51	107	1498	183	101	350	175	446	437	226
Future Volume (veh/h)	260	1704	51	107	1498	183	101	350	175	446	437	226
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	280	1832	33	115	1611	122	109	376	102	480	470	135
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	280	1803	559	137	1488	367	133	460	205	483	1201	533
Arrive On Green	0.17	0.37	0.37	0.05	0.24	0.24	0.08	0.13	0.13	0.30	0.35	0.35
Sat Flow, veh/h	1619	4914	1524	2956	6192	1525	1619	3420	1522	1619	3420	1519
Grp Volume(v), veh/h	280	1832	33	115	1611	122	109	376	102	480	470	135
Grp Sat Flow(s),veh/h/ln	1619	1638	1524	1478	1548	1525	1619	1710	1522	1619	1710	1519
Q Serve(g_s), s	20.2	42.9	1.6	4.5	28.1	7.7	7.8	12.5	7.3	34.6	12.1	7.4
Cycle Q Clear(g_c), s	20.2	42.9	1.6	4.5	28.1	7.7	7.8	12.5	7.3	34.6	12.1	7.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	280	1803	559	137	1488	367	133	460	205	483	1201	533
V/C Ratio(X)	1.00	1.02	0.06	0.84	1.08	0.33	0.82	0.82	0.50	0.99	0.39	0.25
Avail Cap(c_a), veh/h	280	1803	559	137	1488	367	224	550	245	483	1201	533
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	48.4	37.0	24.0	55.3	44.4	36.7	52.8	49.2	46.9	40.9	28.5	27.0
Incr Delay (d2), s/veh	54.1	25.3	0.0	35.4	49.2	0.5	11.8	8.0	1.9	39.1	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	12.0	20.2	0.6	2.3	15.2	2.8	3.5	5.7	2.7	18.4	4.8	2.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	102.5	62.4	24.0	90.8	93.6	37.2	64.7	57.2	48.8	80.0	28.7	27.3
LnGrp LOS	F	F	C	F	F	D	E	E	D	F	C	C
Approach Vol, veh/h		2145			1848			587			1085	
Approach Delay, s/veh		67.0			89.7			57.1			51.3	
Approach LOS		E			F			E			D	

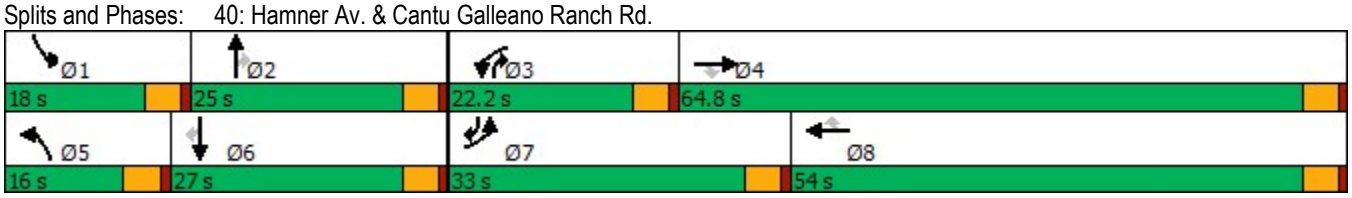
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	39.4	20.2	9.9	47.4	14.1	45.6	24.7	32.6
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	34.9	18.8	5.4	42.9	16.2	37.5	20.2	28.1
Max Q Clear Time (g_c+I1), s	36.6	14.5	6.5	44.9	9.8	14.1	22.2	30.1
Green Ext Time (p_c), s	0.0	1.0	0.0	0.0	0.1	3.3	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	70.4
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	852	1703	117	291	1599	379	324	794	376	377	225	530
Future Volume (vph)	852	1703	117	291	1599	379	324	794	376	377	225	530
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	33.0	64.8	64.8	22.2	54.0	54.0	16.0	25.0	22.2	18.0	27.0	33.0
Total Split (%)	25.4%	49.8%	49.8%	17.1%	41.5%	41.5%	12.3%	19.2%	17.1%	13.8%	20.8%	25.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	28.6	55.5	55.5	15.0	41.9	41.9	11.5	20.3	39.9	13.5	22.3	55.5
Actuated g/C Ratio	0.23	0.45	0.45	0.12	0.34	0.34	0.09	0.17	0.33	0.11	0.18	0.45
v/c Ratio	1.05	0.52	0.15	0.69	0.64	0.56	0.99	0.88	0.67	0.98	0.23	0.73
Control Delay	91.7	24.6	3.8	60.4	34.9	16.2	103.6	61.7	34.1	96.6	44.4	32.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	91.7	24.6	3.8	60.4	34.9	16.2	103.6	61.7	34.1	96.6	44.4	32.7
LOS	F	C	A	E	C	B	F	E	C	F	D	C
Approach Delay		45.1			35.1			63.8			56.3	
Approach LOS		D			D			E			E	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 122.5	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.05	
Intersection Signal Delay: 47.5	Intersection LOS: D
Intersection Capacity Utilization 88.6%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	852	1703	117	291	1599	379	324	794	376	377	225	530
Future Volume (veh/h)	852	1703	117	291	1599	379	324	794	376	377	225	530
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	888	1774	66	303	1666	329	338	827	309	393	234	511
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	868	3492	740	373	2452	520	350	983	444	411	1079	691
Arrive On Green	0.24	0.46	0.46	0.10	0.32	0.32	0.10	0.17	0.17	0.11	0.19	0.19
Sat Flow, veh/h	3619	7600	1610	3619	7600	1610	3619	5700	1610	3619	5700	1610
Grp Volume(v), veh/h	888	1774	66	303	1666	329	338	827	309	393	234	511
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1810	1900	1610	1810	1900	1610
Q Serve(g_s), s	28.5	19.6	2.7	9.7	22.6	20.7	11.1	16.7	20.4	12.8	4.1	22.5
Cycle Q Clear(g_c), s	28.5	19.6	2.7	9.7	22.6	20.7	11.1	16.7	20.4	12.8	4.1	22.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	868	3492	740	373	2452	520	350	983	444	411	1079	691
V/C Ratio(X)	1.02	0.51	0.09	0.81	0.68	0.63	0.97	0.84	0.70	0.96	0.22	0.74
Avail Cap(c_a), veh/h	868	3856	817	539	3165	671	350	983	444	411	1079	691
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	45.2	22.7	18.1	52.2	34.9	34.3	53.5	47.6	38.6	52.4	40.7	28.4
Incr Delay (d2), s/veh	36.6	0.1	0.1	6.1	0.4	1.3	38.8	6.7	4.7	33.1	0.1	4.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	16.4	8.0	1.0	4.5	9.9	7.8	6.7	8.2	8.2	7.5	1.9	11.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	81.7	22.8	18.2	58.3	35.3	35.5	92.2	54.3	43.3	85.5	40.8	32.6
LnGrp LOS	F	C	B	E	D	D	F	D	D	F	D	C
Approach Vol, veh/h		2728			2298			1474			1138	
Approach Delay, s/veh		41.8			38.4			60.7			52.6	
Approach LOS		D			D			E			D	

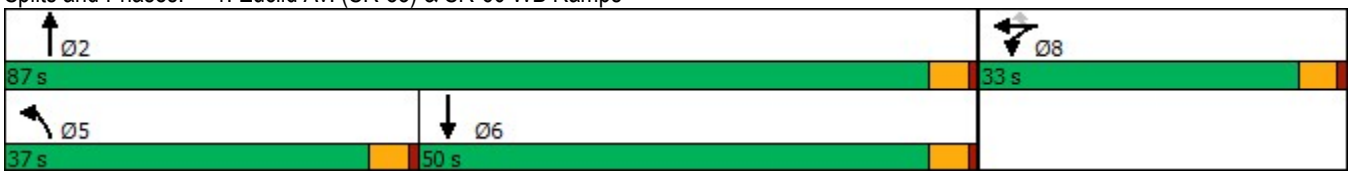
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	18.0	25.0	16.7	59.1	16.0	27.0	33.0	42.8
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	13.5	20.5	17.7	60.3	11.5	22.5	28.5	49.5
Max Q Clear Time (g_c+I1), s	14.8	22.4	11.7	21.6	13.1	24.5	30.5	24.6
Green Ext Time (p_c), s	0.0	0.0	0.5	16.7	0.0	0.0	0.0	13.7

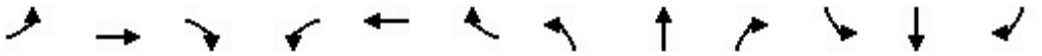
Intersection Summary	
HCM 6th Ctrl Delay	46.0
HCM 6th LOS	D

Lane Group	WBL	WBT	WBR	NBL	NBT	SBT
Lane Configurations						
Traffic Volume (vph)	874	7	421	1042	1396	1717
Future Volume (vph)	874	7	421	1042	1396	1717
Turn Type	Split	NA	Perm	Prot	NA	NA
Protected Phases	8	8		5	2	6
Permitted Phases			8			
Detector Phase	8	8	8	5	2	6
Switch Phase						
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	33.0	33.0	33.0	37.0	87.0	50.0
Total Split (%)	27.5%	27.5%	27.5%	30.8%	72.5%	41.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lead		Lag
Lead-Lag Optimize?				Yes		Yes
Recall Mode	None	None	None	None	Min	Min
Act Effct Green (s)	28.5	28.5	28.5	32.5	82.5	45.5
Actuated g/C Ratio	0.24	0.24	0.24	0.27	0.69	0.38
v/c Ratio	1.11	1.10	0.93	1.09	0.36	1.08
Control Delay	117.9	114.6	67.0	97.3	8.1	78.9
Queue Delay	0.0	0.0	0.0	4.9	0.5	0.0
Total Delay	117.9	114.6	67.0	102.2	8.6	78.9
LOS	F	F	E	F	A	E
Approach Delay		102.0			48.6	78.9
Approach LOS		F			D	E

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.11	
Intersection Signal Delay: 71.6	Intersection LOS: E
Intersection Capacity Utilization 150.9%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 1: Euclid Av. (SR-83) & SR-60 WB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	0	0	0	874	7	421	1042	1396	0	0	1717	532
Future Volume (veh/h)	0	0	0	874	7	421	1042	1396	0	0	1717	532
Initial Q (Qb), veh				0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)				1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj				1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach					No			No			No	
Adj Sat Flow, veh/h/ln				1900	1900	1900	1900	1900	0	0	1900	1900
Adj Flow Rate, veh/h				962	0	146	1063	1424	0	0	1752	288
Peak Hour Factor				0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %				0	0	0	0	0	0	0	0	0
Cap, veh/h				860	0	383	980	3918	0	0	1812	295
Arrive On Green				0.36	0.00	0.36	0.41	1.00	0.00	0.00	0.57	0.57
Sat Flow, veh/h				3619	0	1610	3619	5700	0	0	4781	779
Grp Volume(v), veh/h				962	0	146	1063	1424	0	0	1389	651
Grp Sat Flow(s),veh/h/ln				1810	0	1610	1810	1900	0	0	1900	1760
Q Serve(g_s), s				28.5	0.0	8.1	32.5	0.0	0.0	0.0	41.9	43.0
Cycle Q Clear(g_c), s				28.5	0.0	8.1	32.5	0.0	0.0	0.0	41.9	43.0
Prop In Lane				1.00		1.00	1.00		0.00	0.00		0.44
Lane Grp Cap(c), veh/h				860	0	383	980	3918	0	0	1440	667
V/C Ratio(X)				1.12	0.00	0.38	1.08	0.36	0.00	0.00	0.96	0.98
Avail Cap(c_a), veh/h				860	0	383	980	3920	0	0	1441	667
HCM Platoon Ratio				1.50	1.50	1.50	1.50	1.50	1.00	1.00	1.50	1.50
Upstream Filter(I)				1.00	0.00	1.00	1.00	1.00	0.00	0.00	1.00	1.00
Uniform Delay (d), s/veh				38.6	0.0	32.0	35.6	0.0	0.0	0.0	25.1	25.4
Incr Delay (d2), s/veh				68.8	0.0	0.6	54.3	0.1	0.0	0.0	16.0	28.8
Initial Q Delay(d3),s/veh				0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln				19.0	0.0	3.0	19.6	0.0	0.0	0.0	17.6	19.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh				107.4	0.0	32.7	90.0	0.1	0.0	0.0	41.1	54.1
LnGrp LOS				F	A	C	F	A	A	A	D	D
Approach Vol, veh/h					1108			2487			2040	
Approach Delay, s/veh					97.6			38.5			45.3	
Approach LOS					F			D			D	

Timer - Assigned Phs	2		5	6		8						
Phs Duration (G+Y+Rc), s	87.0		37.0	50.0		33.0						
Change Period (Y+Rc), s	4.5		4.5	4.5		4.5						
Max Green Setting (Gmax), s	82.5		32.5	45.5		28.5						
Max Q Clear Time (g_c+I1), s	2.0		34.5	45.0		30.5						
Green Ext Time (p_c), s	14.7		0.0	0.4		0.0						

Intersection Summary		
HCM 6th Ctrl Delay		52.6
HCM 6th LOS		D

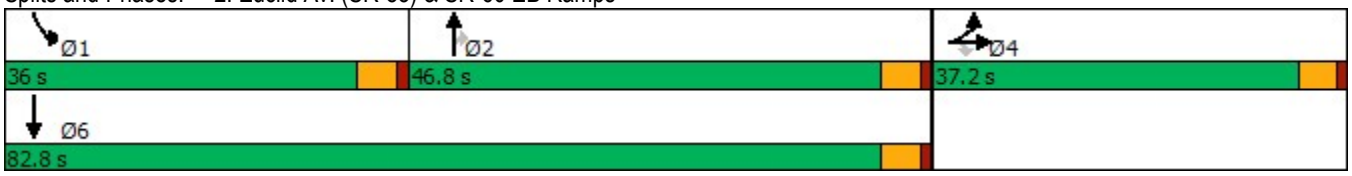
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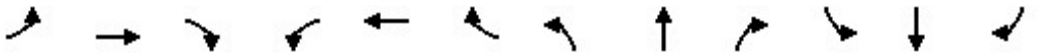
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Configurations							
Traffic Volume (vph)	335	6	636	1806	778	409	1930
Future Volume (vph)	335	6	636	1806	778	409	1930
Turn Type	Split	NA	Perm	NA	Perm	Prot	NA
Protected Phases	4	4		2		1	6
Permitted Phases			4		2		
Detector Phase	4	4	4	2	2	1	6
Switch Phase							
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	9.5	22.5
Total Split (s)	37.2	37.2	37.2	46.8	46.8	36.0	82.8
Total Split (%)	31.0%	31.0%	31.0%	39.0%	39.0%	30.0%	69.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag				Lag	Lag	Lead	
Lead-Lag Optimize?				Yes	Yes	Yes	
Recall Mode	None	None	None	Min	Min	None	Min
Act Effct Green (s)	29.1	29.1	29.1	48.9	48.9	18.9	72.4
Actuated g/C Ratio	0.26	0.26	0.26	0.44	0.44	0.17	0.65
v/c Ratio	0.70	0.87	0.79	1.18	0.87	0.71	0.85
Control Delay	46.9	61.0	46.7	117.3	25.6	51.1	20.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	9.5
Total Delay	46.9	61.0	46.7	117.3	25.6	51.1	29.4
LOS	D	E	D	F	C	D	C
Approach Delay		51.7		89.7			33.2
Approach LOS		D		F			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 110.6	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.18	
Intersection Signal Delay: 61.0	Intersection LOS: E
Intersection Capacity Utilization 143.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 2: Euclid Av. (SR-83) & SR-60 EB Ramps





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	335	6	636	0	0	0	0	1806	778	409	1930	0
Future Volume (veh/h)	335	6	636	0	0	0	0	1806	778	409	1930	0
Initial Q (Qb), veh	0	0	0				0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00				1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No						No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900				0	1900	1900	1900	1900	0
Adj Flow Rate, veh/h	235	0	715				0	1881	683	426	2010	0
Peak Hour Factor	0.96	0.96	0.96				0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0				0	0	0	0	0	0
Cap, veh/h	465	0	828				0	1666	732	527	2366	0
Arrive On Green	0.26	0.00	0.26				0.00	0.46	0.46	0.15	0.66	0.00
Sat Flow, veh/h	1810	0	3220				0	3705	1586	3510	3705	0
Grp Volume(v), veh/h	235	0	715				0	1881	683	426	2010	0
Grp Sat Flow(s),veh/h/ln	1810	0	1610				0	1805	1586	1755	1805	0
Q Serve(g_s), s	11.4	0.0	21.8				0.0	47.4	41.9	12.1	44.5	0.0
Cycle Q Clear(g_c), s	11.4	0.0	21.8				0.0	47.4	41.9	12.1	44.5	0.0
Prop In Lane	1.00		1.00				0.00		1.00	1.00		0.00
Lane Grp Cap(c), veh/h	465	0	828				0	1666	732	527	2366	0
V/C Ratio(X)	0.51	0.00	0.86				0.00	1.13	0.93	0.81	0.85	0.00
Avail Cap(c_a), veh/h	576	0	1024				0	1666	732	1076	2750	0
HCM Platoon Ratio	1.00	1.00	1.00				1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00				0.00	1.00	1.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	32.6	0.0	36.5				0.0	27.7	26.2	42.2	13.8	0.0
Incr Delay (d2), s/veh	0.8	0.0	6.5				0.0	66.4	18.9	3.0	2.4	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0				0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.9	0.0	8.9				0.0	34.0	18.3	5.3	15.6	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	33.4	0.0	43.0				0.0	94.1	45.1	45.3	16.2	0.0
LnGrp LOS	C	A	D				A	F	D	D	B	A
Approach Vol, veh/h		950						2564			2436	
Approach Delay, s/veh		40.6						81.1			21.3	
Approach LOS		D						F			C	

Timer - Assigned Phs	1	2		4		6
Phs Duration (G+Y+Rc), s	19.9	51.9		30.9		71.9
Change Period (Y+Rc), s	4.5	4.5		4.5		4.5
Max Green Setting (Gmax), s	31.5	42.3		32.7		78.3
Max Q Clear Time (g_c+I1), s	14.1	49.4		23.8		46.5
Green Ext Time (p_c), s	1.4	0.0		2.6		20.9

Intersection Summary	
HCM 6th Ctrl Delay	50.1
HCM 6th LOS	D

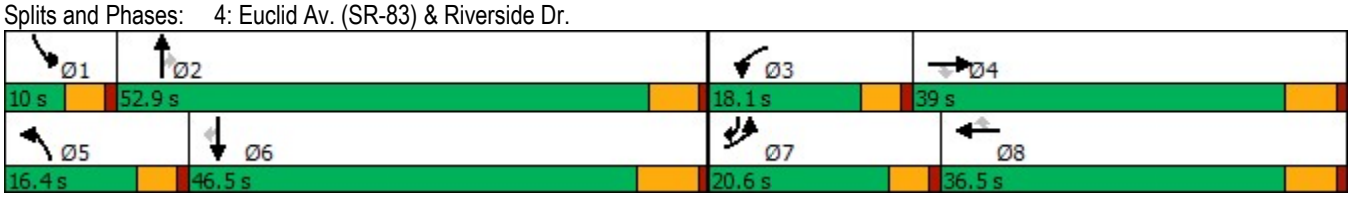
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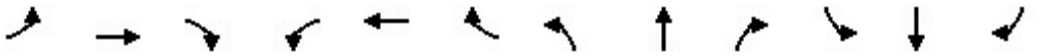
User approved volume balancing among the lanes for turning movement.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	158	973	172	188	697	83	303	2082	442	125	1602	429
Future Volume (vph)	158	973	172	188	697	83	303	2082	442	125	1602	429
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2		1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	5.0
Minimum Split (s)	9.6	25.8	25.8	9.6	31.8	31.8	9.6	30.4	30.4	9.6	34.5	9.6
Total Split (s)	20.6	39.0	39.0	18.1	36.5	36.5	16.4	52.9	52.9	10.0	46.5	20.6
Total Split (%)	17.2%	32.5%	32.5%	15.1%	30.4%	30.4%	13.7%	44.1%	44.1%	8.3%	38.8%	17.2%
Yellow Time (s)	3.6	4.8	4.8	3.6	4.8	4.8	3.6	4.4	4.4	3.6	5.5	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	5.8	5.8	4.6	5.8	5.8	4.6	5.4	5.4	4.6	6.5	4.6
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	None
Act Effct Green (s)	14.5	33.2	33.2	13.5	32.2	32.2	11.8	47.5	47.5	5.4	40.0	61.0
Actuated g/C Ratio	0.12	0.28	0.28	0.11	0.27	0.27	0.10	0.40	0.40	0.04	0.33	0.51
v/c Ratio	0.82	1.04	0.32	1.05	0.77	0.16	0.99	1.08	0.57	0.90	0.99	0.52
Control Delay	82.3	82.4	8.6	132.0	47.4	0.7	104.0	81.5	11.4	110.4	59.5	16.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	82.3	82.4	8.6	132.0	47.4	0.7	104.0	81.5	11.4	110.4	59.5	16.6
LOS	F	F	A	F	D	A	F	F	B	F	E	B
Approach Delay		72.6			59.8			72.9			53.9	
Approach LOS		E			E			E			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.08	
Intersection Signal Delay: 65.5	Intersection LOS: E
Intersection Capacity Utilization 103.7%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 4: Euclid Av. (SR-83) & Riverside Dr.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	158	973	172	188	697	83	303	2082	442	125	1602	429
Future Volume (veh/h)	158	973	172	188	697	83	303	2082	442	125	1602	429
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.98	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	160	983	123	190	704	45	306	2103	244	126	1618	231
Peak Hour Factor	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99	0.99
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	184	938	418	180	931	408	306	1927	598	140	1668	691
Arrive On Green	0.11	0.27	0.27	0.11	0.27	0.27	0.10	0.39	0.39	0.04	0.34	0.34
Sat Flow, veh/h	1619	3420	1525	1619	3420	1500	3141	4914	1525	3141	4914	1525
Grp Volume(v), veh/h	160	983	123	190	704	45	306	2103	244	126	1618	231
Grp Sat Flow(s),veh/h/ln	1619	1710	1525	1619	1710	1500	1570	1638	1525	1570	1638	1525
Q Serve(g_s), s	11.8	33.2	7.7	13.5	22.8	2.7	11.8	47.5	14.0	4.8	39.3	11.8
Cycle Q Clear(g_c), s	11.8	33.2	7.7	13.5	22.8	2.7	11.8	47.5	14.0	4.8	39.3	11.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	184	938	418	180	931	408	306	1927	598	140	1668	691
V/C Ratio(X)	0.87	1.05	0.29	1.05	0.76	0.11	1.00	1.09	0.41	0.90	0.97	0.33
Avail Cap(c_a), veh/h	214	938	418	180	931	408	306	1927	598	140	1668	691
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	52.8	43.9	34.7	53.8	40.4	33.1	54.6	36.8	26.6	57.6	39.4	21.4
Incr Delay (d2), s/veh	24.7	42.9	0.4	81.6	3.6	0.1	51.4	50.1	0.4	46.4	15.5	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.9	19.1	2.8	9.4	9.7	1.0	6.7	26.3	5.0	2.8	17.6	4.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	77.5	86.8	35.1	135.4	44.0	33.2	106.0	86.9	27.1	103.9	54.9	21.6
LnGrp LOS	E	F	D	F	D	C	F	F	C	F	D	C
Approach Vol, veh/h		1266			939			2653			1975	
Approach Delay, s/veh		80.6			62.0			83.6			54.1	
Approach LOS		F			E			F			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	10.0	54.0	18.1	39.0	16.4	47.6	18.4	38.7
Change Period (Y+Rc), s	4.6	* 6.5	4.6	5.8	4.6	6.5	4.6	5.8
Max Green Setting (Gmax), s	5.4	* 48	13.5	33.2	11.8	40.0	16.0	30.7
Max Q Clear Time (g_c+I1), s	6.8	49.5	15.5	35.2	13.8	41.3	13.8	24.8
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2

Intersection Summary	
HCM 6th Ctrl Delay	71.6
HCM 6th LOS	E

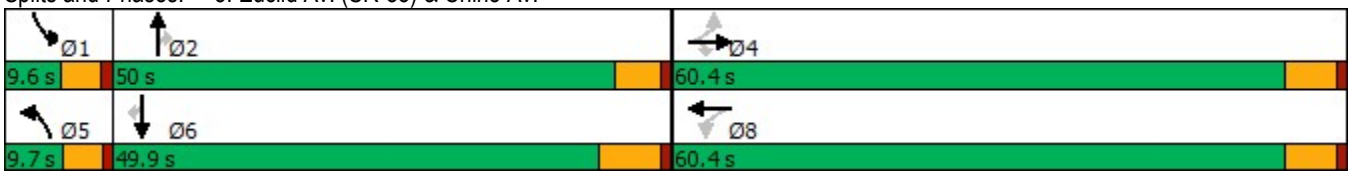
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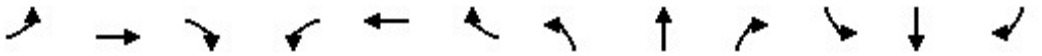
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	153	684	99	165	406	86	2318	262	111	1664	181
Future Volume (vph)	153	684	99	165	406	86	2318	262	111	1664	181
Turn Type	Perm	NA	Perm	Perm	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	5	2		1	6	
Permitted Phases	4		4	8				2			6
Detector Phase	4	4	4	8	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	10.0	10.0	10.0	10.0	10.0	5.0	10.0	10.0	5.0	10.0	10.0
Minimum Split (s)	28.8	28.8	28.8	33.8	33.8	9.6	24.2	24.2	9.6	31.5	31.5
Total Split (s)	60.4	60.4	60.4	60.4	60.4	9.7	50.0	50.0	9.6	49.9	49.9
Total Split (%)	50.3%	50.3%	50.3%	50.3%	50.3%	8.1%	41.7%	41.7%	8.0%	41.6%	41.6%
Yellow Time (s)	4.8	4.8	4.8	4.8	4.8	3.6	4.2	4.2	3.6	5.5	5.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.8	5.8	5.8	5.8	5.8	4.6	5.2	5.2	4.6	6.5	6.5
Lead/Lag						Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Max	Max	None	Max	Max
Act Effct Green (s)	54.6	54.6	54.6	54.6	54.6	5.1	44.8	44.8	5.0	43.4	43.4
Actuated g/C Ratio	0.46	0.46	0.46	0.46	0.46	0.04	0.37	0.37	0.04	0.36	0.36
v/c Ratio	0.76	0.86	0.14	1.67	0.68	0.65	1.19	0.44	0.85	0.88	0.28
Control Delay	52.7	41.7	5.6	365.3	30.3	78.4	123.5	23.4	103.0	42.1	6.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	52.7	41.7	5.6	365.3	30.3	78.4	123.5	23.4	103.0	42.1	6.4
LOS	D	D	A	F	C	E	F	C	F	D	A
Approach Delay		39.7			110.0		112.2			42.3	
Approach LOS		D			F		F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.67	
Intersection Signal Delay: 79.2	Intersection LOS: E
Intersection Capacity Utilization 116.4%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 5: Euclid Av. (SR-83) & Chino Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	153	684	99	165	406	122	86	2318	262	111	1664	181
Future Volume (veh/h)	153	684	99	165	406	122	86	2318	262	111	1664	181
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	158	705	51	170	419	64	89	2390	135	114	1715	94
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	307	810	687	151	686	105	133	1994	563	133	1994	563
Arrive On Green	0.68	0.68	0.68	0.68	0.68	0.68	0.06	0.55	0.55	0.06	0.55	0.55
Sat Flow, veh/h	829	1800	1525	644	1525	233	3238	5400	1525	3238	5400	1525
Grp Volume(v), veh/h	158	705	51	170	0	483	89	2390	135	114	1715	94
Grp Sat Flow(s),veh/h/ln	829	1800	1525	644	0	1758	1619	1800	1525	1619	1800	1525
Q Serve(g_s), s	17.9	37.4	1.4	17.2	0.0	18.4	3.3	44.8	5.5	4.2	32.8	3.7
Cycle Q Clear(g_c), s	36.3	37.4	1.4	54.6	0.0	18.4	3.3	44.8	5.5	4.2	32.8	3.7
Prop In Lane	1.00		1.00	1.00		0.13	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	307	810	687	151	0	791	133	1994	563	133	1994	563
V/C Ratio(X)	0.52	0.87	0.07	1.13	0.00	0.61	0.67	1.20	0.24	0.85	0.86	0.17
Avail Cap(c_a), veh/h	307	810	687	151	0	791	136	1994	563	133	1994	563
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	23.8	16.9	11.1	41.8	0.0	13.8	56.1	27.0	18.3	56.5	24.4	17.9
Incr Delay (d2), s/veh	1.5	10.1	0.0	112.2	0.0	1.4	9.2	94.4	1.0	37.0	5.1	0.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.1	11.9	0.5	9.0	0.0	5.4	1.4	30.9	1.9	2.3	10.8	1.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	25.3	27.0	11.1	154.0	0.0	15.2	65.3	121.5	19.3	93.5	29.5	18.5
LnGrp LOS	C	C	B	F	A	B	E	F	B	F	C	B
Approach Vol, veh/h		914			653			2614			1923	
Approach Delay, s/veh		25.8			51.3			114.3			32.8	
Approach LOS		C			D			F			C	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	9.6	51.3		60.4	9.6	51.3		60.4				
Change Period (Y+Rc), s	4.6	* 6.5		5.8	4.6	6.5		5.8				
Max Green Setting (Gmax), s	5.0	* 45		54.6	5.1	43.4		54.6				
Max Q Clear Time (g_c+I1), s	6.2	46.8		39.4	5.3	34.8		56.6				
Green Ext Time (p_c), s	0.0	0.0		5.0	0.0	6.2		0.0				

Intersection Summary			
HCM 6th Ctrl Delay		68.6	
HCM 6th LOS		E	

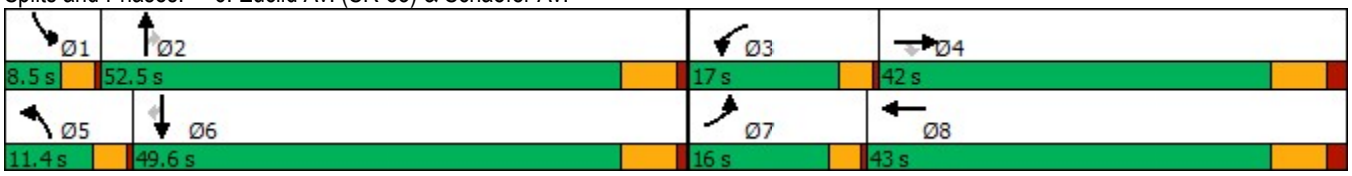
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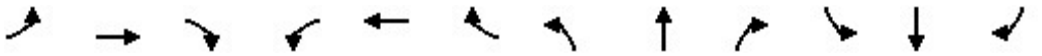
* HCM 6th computational engine requires equal clearance times for the phases crossing the barrier.

Lane Group	EBL	EBT	EBR	WBL	WBT	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	404	335	180	175	270	185	2090	65	117	1664	186
Future Volume (vph)	404	335	180	175	270	185	2090	65	117	1664	186
Turn Type	Prot	NA	Perm	Prot	NA	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8	5	2		1	6	
Permitted Phases			4					2			6
Detector Phase	7	4	4	3	8	5	2	2	1	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	10.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	8.5	42.0	42.0	13.5	43.0	8.5	33.0	33.0	8.5	28.0	28.0
Total Split (s)	16.0	42.0	42.0	17.0	43.0	11.4	52.5	52.5	8.5	49.6	49.6
Total Split (%)	13.3%	35.0%	35.0%	14.2%	35.8%	9.5%	43.8%	43.8%	7.1%	41.3%	41.3%
Yellow Time (s)	3.0	5.0	5.0	3.0	5.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	0.5	2.0	2.0	0.5	2.0	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	3.5	7.0	7.0	3.5	7.0	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	12.5	35.0	35.0	13.5	36.0	7.9	46.5	46.5	5.0	43.6	43.6
Actuated g/C Ratio	0.10	0.29	0.29	0.11	0.30	0.07	0.39	0.39	0.04	0.36	0.36
v/c Ratio	1.28	0.66	0.35	0.99	0.98	0.93	1.13	0.10	0.93	0.96	0.31
Control Delay	189.1	44.3	15.0	119.1	73.3	102.2	101.4	2.0	119.7	51.5	13.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	189.1	44.3	15.0	119.1	73.3	102.2	101.4	2.0	119.7	51.5	13.3
LOS	F	D	B	F	E	F	F	A	F	D	B
Approach Delay		102.2			85.2		98.7			51.9	
Approach LOS		F			F		F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.28	
Intersection Signal Delay: 82.1	Intersection LOS: F
Intersection Capacity Utilization 106.9%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 6: Euclid Av. (SR-83) & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	404	335	180	175	270	228	185	2090	65	117	1664	186
Future Volume (veh/h)	404	335	180	175	270	228	185	2090	65	117	1664	186
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	416	345	93	180	278	132	191	2155	34	121	1715	99
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	345	457	387	192	303	144	218	2006	623	138	1881	576
Arrive On Green	0.11	0.25	0.25	0.12	0.26	0.26	0.07	0.41	0.41	0.04	0.38	0.38
Sat Flow, veh/h	3141	1800	1525	1619	1153	548	3141	4914	1525	3141	4914	1505
Grp Volume(v), veh/h	416	345	93	180	0	410	191	2155	34	121	1715	99
Grp Sat Flow(s),veh/h/ln	1570	1800	1525	1619	0	1701	1570	1638	1525	1570	1638	1505
Q Serve(g_s), s	12.5	20.2	5.5	12.6	0.0	26.7	6.9	46.5	1.5	4.4	37.7	5.0
Cycle Q Clear(g_c), s	12.5	20.2	5.5	12.6	0.0	26.7	6.9	46.5	1.5	4.4	37.7	5.0
Prop In Lane	1.00		1.00	1.00		0.32	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	345	457	387	192	0	446	218	2006	623	138	1881	576
V/C Ratio(X)	1.21	0.76	0.24	0.94	0.00	0.92	0.88	1.07	0.05	0.88	0.91	0.17
Avail Cap(c_a), veh/h	345	553	469	192	0	538	218	2006	623	138	1881	576
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.7	39.2	33.8	49.8	0.0	40.8	52.5	33.7	20.4	54.1	33.3	23.2
Incr Delay (d2), s/veh	117.3	4.3	0.2	46.9	0.0	18.2	29.6	43.4	0.0	41.4	7.2	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	10.4	9.1	2.0	7.4	0.0	12.9	3.5	24.7	0.5	2.4	14.9	1.7
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	168.0	43.5	34.0	96.7	0.0	59.0	82.1	77.1	20.4	95.6	40.5	23.4
LnGrp LOS	F	D	C	F	A	E	F	F	C	F	D	C
Approach Vol, veh/h		854			590			2380			1935	
Approach Delay, s/veh		103.1			70.5			76.7			43.1	
Approach LOS		F			E			E			D	

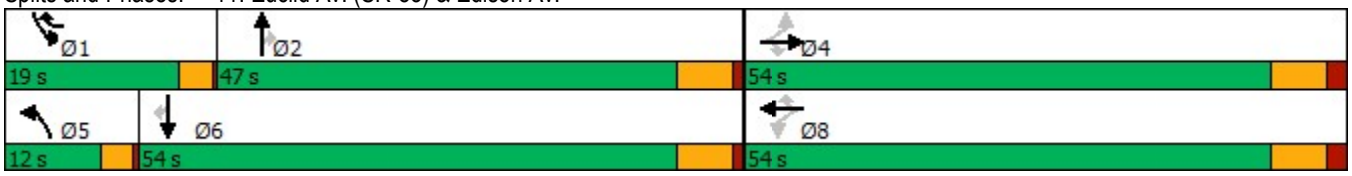
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	8.5	52.5	17.0	35.9	11.4	49.6	16.0	36.9
Change Period (Y+Rc), s	3.5	6.0	3.5	7.0	3.5	6.0	3.5	7.0
Max Green Setting (Gmax), s	5.0	46.5	13.5	35.0	7.9	43.6	12.5	36.0
Max Q Clear Time (g_c+I1), s	6.4	48.5	14.6	22.2	8.9	39.7	14.5	28.7
Green Ext Time (p_c), s	0.0	0.0	0.0	1.4	0.0	3.1	0.0	1.1

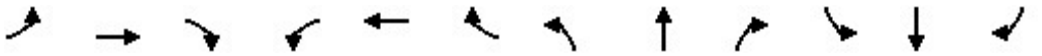
Intersection Summary	
HCM 6th Ctrl Delay	68.7
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	352	1372	236	194	736	376	227	1727	163	390	1231	254
Future Volume (vph)	352	1372	236	194	736	376	227	1727	163	390	1231	254
Turn Type	Perm	NA	Perm	Perm	NA	pm+ov	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8	1	5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	1	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	46.0	46.0	46.0	49.0	49.0	8.5	8.5	29.0	29.0	8.5	40.0	40.0
Total Split (s)	54.0	54.0	54.0	54.0	54.0	19.0	12.0	47.0	47.0	19.0	54.0	54.0
Total Split (%)	45.0%	45.0%	45.0%	45.0%	45.0%	15.8%	10.0%	39.2%	39.2%	15.8%	45.0%	45.0%
Yellow Time (s)	5.0	5.0	5.0	5.0	5.0	3.0	3.0	5.0	5.0	3.0	5.0	5.0
All-Red Time (s)	2.0	2.0	2.0	2.0	2.0	0.5	0.5	1.0	1.0	0.5	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	7.0	7.0	7.0	7.0	7.0	3.5	3.5	6.0	6.0	3.5	6.0	6.0
Lead/Lag						Lead	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?						Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	47.0	47.0	47.0	47.0	47.0	66.0	8.5	41.0	41.0	15.5	48.0	48.0
Actuated g/C Ratio	0.39	0.39	0.39	0.39	0.39	0.55	0.07	0.34	0.34	0.13	0.40	0.40
v/c Ratio	1.07	0.73	0.34	1.60	0.56	0.45	1.05	1.05	0.29	0.99	0.64	0.40
Control Delay	103.6	33.8	7.9	331.4	30.4	15.2	127.7	75.0	13.3	93.6	30.8	20.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	103.6	33.8	7.9	331.4	30.4	15.2	127.7	75.0	13.3	93.6	30.8	20.2
LOS	F	C	A	F	C	B	F	E	B	F	C	C
Approach Delay		43.2			70.8			76.0			42.5	
Approach LOS		D			E			E			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.60	
Intersection Signal Delay: 57.5	Intersection LOS: E
Intersection Capacity Utilization 101.8%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 11: Euclid Av. (SR-83) & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	352	1372	236	194	736	376	227	1727	163	390	1231	254
Future Volume (veh/h)	352	1372	236	194	736	376	227	1727	163	390	1231	254
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		0.99	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	359	1400	190	198	751	282	232	1762	115	398	1256	157
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	332	1925	597	204	1340	787	222	1679	514	406	1966	603
Arrive On Green	0.39	0.39	0.39	0.39	0.39	0.39	0.07	0.34	0.34	0.13	0.40	0.40
Sat Flow, veh/h	963	4914	1525	566	3420	1505	3141	4914	1504	3141	4914	1506
Grp Volume(v), veh/h	359	1400	190	198	751	282	232	1762	115	398	1256	157
Grp Sat Flow(s),veh/h/ln	481	1638	1525	283	1710	1505	1570	1638	1504	1570	1638	1506
Q Serve(g_s), s	26.5	29.1	10.4	17.9	20.5	13.3	8.5	41.0	6.5	15.2	24.7	8.4
Cycle Q Clear(g_c), s	47.0	29.1	10.4	47.0	20.5	13.3	8.5	41.0	6.5	15.2	24.7	8.4
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	332	1925	597	204	1340	787	222	1679	514	406	1966	603
V/C Ratio(X)	1.08	0.73	0.32	0.97	0.56	0.36	1.04	1.05	0.22	0.98	0.64	0.26
Avail Cap(c_a), veh/h	332	1925	597	204	1340	787	222	1679	514	406	1966	603
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	51.5	31.1	25.4	56.2	28.5	17.0	55.7	39.5	28.2	52.1	29.0	24.1
Incr Delay (d2), s/veh	72.5	1.4	0.3	53.7	0.5	0.3	72.0	36.2	0.2	39.4	0.7	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	8.3	11.2	3.7	4.5	8.1	4.4	5.5	20.9	2.3	7.9	9.1	2.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	124.1	32.5	25.7	109.9	29.0	17.2	127.7	75.7	28.4	91.5	29.7	24.3
LnGrp LOS	F	C	C	F	C	B	F	F	C	F	C	C
Approach Vol, veh/h		1949			1231			2109			1811	
Approach Delay, s/veh		48.7			39.3			78.9			42.8	
Approach LOS		D			D			E			D	

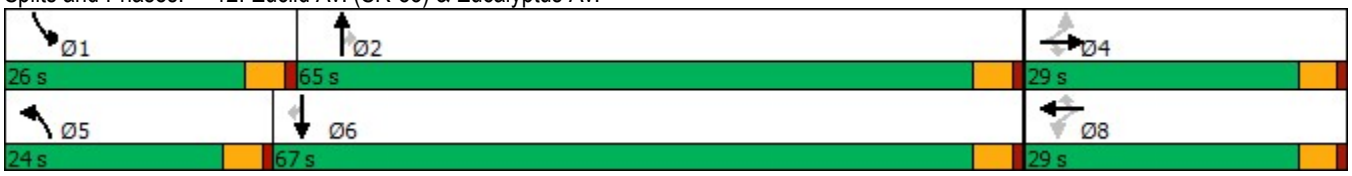
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	19.0	47.0		54.0	12.0	54.0		54.0				
Change Period (Y+Rc), s	3.5	6.0		7.0	3.5	6.0		7.0				
Max Green Setting (Gmax), s	15.5	41.0		47.0	8.5	48.0		47.0				
Max Q Clear Time (g_c+I1), s	17.2	43.0		49.0	10.5	26.7		49.0				
Green Ext Time (p_c), s	0.0	0.0		0.0	0.0	8.7		0.0				

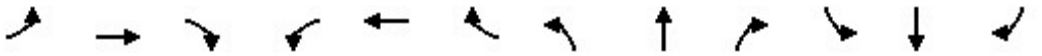
Intersection Summary												
HCM 6th Ctrl Delay			54.5									
HCM 6th LOS			D									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	59	166	234	46	196	298	131	1842	23	151	1911	93
Future Volume (vph)	59	166	234	46	196	298	131	1842	23	151	1911	93
Turn Type	Perm	NA	Perm	Perm	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases		4			8		5	2		1	6	
Permitted Phases	4		4	8		8			2			6
Detector Phase	4	4	4	8	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	29.0	29.0	29.0	29.0	29.0	29.0	24.0	65.0	65.0	26.0	67.0	67.0
Total Split (%)	24.2%	24.2%	24.2%	24.2%	24.2%	24.2%	20.0%	54.2%	54.2%	21.7%	55.8%	55.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag							Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?							Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	17.2	17.2	17.2	17.2	17.2	17.2	13.8	50.0	50.0	15.1	51.3	51.3
Actuated g/C Ratio	0.18	0.18	0.18	0.18	0.18	0.18	0.14	0.52	0.52	0.16	0.53	0.53
v/c Ratio	0.47	0.54	0.52	0.16	0.64	0.63	0.59	0.75	0.03	0.62	0.76	0.12
Control Delay	53.0	45.7	9.4	39.0	49.2	14.2	53.6	21.5	0.4	52.9	20.8	3.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	53.0	45.7	9.4	39.0	49.2	14.2	53.6	21.5	0.4	52.9	20.8	3.2
LOS	D	D	A	D	D	B	D	C	A	D	C	A
Approach Delay		28.1			29.0			23.3			22.3	
Approach LOS		C			C			C			C	

Intersection Summary			
Cycle Length: 120			
Actuated Cycle Length: 96.5			
Natural Cycle: 75			
Control Type: Actuated-Uncoordinated			
Maximum v/c Ratio: 0.76			
Intersection Signal Delay: 23.9		Intersection LOS: C	
Intersection Capacity Utilization 77.1%		ICU Level of Service D	
Analysis Period (min) 15			

Splits and Phases: 12: Euclid Av. (SR-83) & Eucalyptus Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	59	166	234	46	196	298	131	1842	23	151	1911	93
Future Volume (veh/h)	59	166	234	46	196	298	131	1842	23	151	1911	93
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	61	173	149	48	204	307	136	1919	22	157	1991	86
Peak Hour Factor	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	179	408	345	421	408	345	166	2525	784	189	2595	805
Arrive On Green	0.23	0.23	0.23	0.23	0.23	0.23	0.10	0.51	0.51	0.12	0.53	0.53
Sat Flow, veh/h	808	1800	1525	1865	1800	1525	1619	4914	1525	1619	4914	1524
Grp Volume(v), veh/h	61	173	149	48	204	307	136	1919	22	157	1991	86
Grp Sat Flow(s),veh/h/ln	808	1800	1525	933	1800	1525	1619	1638	1525	1619	1638	1524
Q Serve(g_s), s	6.7	7.8	7.9	2.1	9.3	18.4	7.8	29.4	0.7	9.0	30.4	2.7
Cycle Q Clear(g_c), s	16.1	7.8	7.9	9.9	9.3	18.4	7.8	29.4	0.7	9.0	30.4	2.7
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	179	408	345	421	408	345	166	2525	784	189	2595	805
V/C Ratio(X)	0.34	0.42	0.43	0.11	0.50	0.89	0.82	0.76	0.03	0.83	0.77	0.11
Avail Cap(c_a), veh/h	206	467	396	483	467	396	334	3148	977	369	3252	1009
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	38.9	31.3	31.3	35.5	31.9	35.4	41.5	18.3	11.3	40.8	17.7	11.1
Incr Delay (d2), s/veh	1.1	0.7	0.9	0.1	1.0	19.5	9.5	0.9	0.0	9.0	0.9	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.3	3.3	2.8	0.5	4.0	8.3	3.3	9.4	0.2	3.8	9.5	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	40.0	32.0	32.2	35.6	32.8	54.8	51.0	19.2	11.3	49.8	18.6	11.2
LnGrp LOS	D	C	C	D	C	D	D	B	B	D	B	B
Approach Vol, veh/h		383			559			2077			2234	
Approach Delay, s/veh		33.3			45.2			21.2			20.5	
Approach LOS		C			D			C			C	

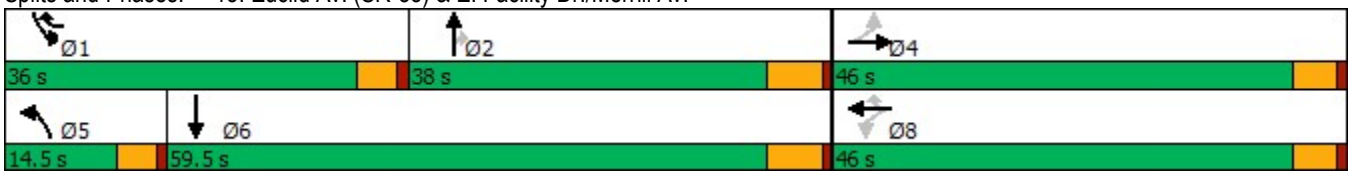
Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	15.5	53.0		25.9	14.2	54.4		25.9				
Change Period (Y+Rc), s	4.5	4.5		4.5	4.5	4.5		4.5				
Max Green Setting (Gmax), s	21.5	60.5		24.5	19.5	62.5		24.5				
Max Q Clear Time (g_c+I1), s	11.0	31.4		18.1	9.8	32.4		20.4				
Green Ext Time (p_c), s	0.3	16.1		1.0	0.2	17.5		1.0				

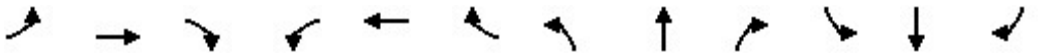
Intersection Summary			
HCM 6th Ctrl Delay		24.3	
HCM 6th LOS		C	

Lane Group	EBL	EBT	WBL	WBR	NBL	NBT	NBR	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	4	22	702	637	3	1340	456	418	2062
Future Volume (vph)	4	22	702	637	3	1340	456	418	2062
Turn Type	Perm	NA	Perm	pm+ov	Prot	NA	Perm	Prot	NA
Protected Phases		4		1	5	2		1	6
Permitted Phases	4		8	8			2		
Detector Phase	4	4	8	1	5	2	2	1	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	15.0	10.0	10.0	5.0	5.0	10.0	5.0
Minimum Split (s)	10.0	10.0	46.0	14.5	14.5	28.0	28.0	14.5	28.0
Total Split (s)	46.0	46.0	46.0	36.0	14.5	38.0	38.0	36.0	59.5
Total Split (%)	38.3%	38.3%	38.3%	30.0%	12.1%	31.7%	31.7%	30.0%	49.6%
Yellow Time (s)	4.0	4.0	4.0	3.5	3.5	5.0	5.0	3.5	5.0
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	5.0	5.0	5.0	4.5	4.5	6.0	6.0	4.5	6.0
Lead/Lag				Lead	Lead	Lag	Lag	Lead	Lag
Lead-Lag Optimize?				Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	Min	Min	None	Min
Act Effct Green (s)	37.5	37.5	37.5	74.0	10.0	32.0	32.0	31.5	65.3
Actuated g/C Ratio	0.32	0.32	0.32	0.63	0.09	0.27	0.27	0.27	0.56
v/c Ratio	0.01	0.08	0.94	0.67	0.02	1.02	0.88	0.99	0.78
Control Delay	26.2	17.6	58.6	16.9	51.0	72.7	46.0	83.8	24.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	26.2	17.6	58.6	16.9	51.0	72.7	46.0	83.8	24.1
LOS	C	B	E	B	D	E	D	F	C
Approach Delay		18.3				65.9			34.1
Approach LOS		B				E			C

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 116.6	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.02	
Intersection Signal Delay: 45.1	Intersection LOS: D
Intersection Capacity Utilization 95.2%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 13: Euclid Av. (SR-83) & E. Facility Dr./Merrill Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	4	22	18	702	0	637	3	1340	456	418	2062	12
Future Volume (veh/h)	4	22	18	702	0	637	3	1340	456	418	2062	12
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		0.99	1.00		1.00	1.00		0.98	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	4	23	11	724	0	348	3	1381	254	431	2126	7
Peak Hour Factor	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97	0.97
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	371	378	181	889	594	911	13	1333	405	432	2682	9
Arrive On Green	0.33	0.33	0.33	0.33	0.00	0.33	0.01	0.27	0.27	0.27	0.53	0.53
Sat Flow, veh/h	939	1145	548	2424	1800	1525	1619	4914	1493	1619	5056	17
Grp Volume(v), veh/h	4	0	34	724	0	348	3	1381	254	431	1377	756
Grp Sat Flow(s),veh/h/ln	939	0	1693	1212	1800	1525	1619	1638	1493	1619	1638	1797
Q Serve(g_s), s	0.3	0.0	1.6	34.3	0.0	14.0	0.2	32.0	17.6	31.4	40.2	40.2
Cycle Q Clear(g_c), s	0.3	0.0	1.6	36.0	0.0	14.0	0.2	32.0	17.6	31.4	40.2	40.2
Prop In Lane	1.00		0.32	1.00		1.00	1.00		1.00	1.00		0.01
Lane Grp Cap(c), veh/h	371	0	559	889	594	911	13	1333	405	432	1738	953
V/C Ratio(X)	0.01	0.00	0.06	0.81	0.00	0.38	0.23	1.04	0.63	1.00	0.79	0.79
Avail Cap(c_a), veh/h	387	0	589	931	626	938	137	1333	405	432	1738	953
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	26.6	0.0	27.0	39.3	0.0	12.4	58.1	43.0	37.7	43.2	22.4	22.4
Incr Delay (d2), s/veh	0.0	0.0	0.0	4.9	0.0	0.1	3.4	34.4	3.0	42.3	2.6	4.6
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.1	0.0	0.7	10.2	0.0	4.3	0.1	16.4	6.4	16.8	14.1	16.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	26.6	0.0	27.0	44.2	0.0	12.5	61.5	77.4	40.8	85.5	25.0	27.1
LnGrp LOS	C	A	C	D	A	B	E	F	D	F	C	C
Approach Vol, veh/h		38			1072			1638			2564	
Approach Delay, s/veh		27.0			33.9			71.7			35.8	
Approach LOS		C			C			E			D	

Timer - Assigned Phs	1	2		4	5	6		8				
Phs Duration (G+Y+Rc), s	36.0	38.0		43.9	5.4	68.6		43.9				
Change Period (Y+Rc), s	4.5	6.0		5.0	4.5	6.0		5.0				
Max Green Setting (Gmax), s	31.5	32.0		41.0	10.0	53.5		41.0				
Max Q Clear Time (g_c+I1), s	33.4	34.0		3.6	2.2	42.2		38.0				
Green Ext Time (p_c), s	0.0	0.0		0.1	0.0	8.7		1.0				

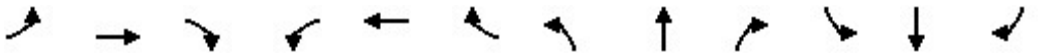
Intersection Summary			
HCM 6th Ctrl Delay		46.4	
HCM 6th LOS		D	

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	580	1040	82	95	501	274	98	1012	214	1024	1257	565
Future Volume (vph)	580	1040	82	95	501	274	98	1012	214	1024	1257	565
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	26.0	39.0	39.0	9.5	22.5	22.5	19.0	29.5	9.5	42.0	52.5	26.0
Total Split (%)	21.7%	32.5%	32.5%	7.9%	18.8%	18.8%	15.8%	24.6%	7.9%	35.0%	43.8%	21.7%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	21.5	34.5	34.5	5.0	18.0	18.0	12.0	25.0	34.5	37.5	50.5	72.0
Actuated g/C Ratio	0.18	0.29	0.29	0.04	0.15	0.15	0.10	0.21	0.29	0.31	0.42	0.60
v/c Ratio	1.12	1.08	0.16	0.75	1.00	0.60	0.62	1.01	0.41	1.13	0.62	0.59
Control Delay	121.9	93.5	1.5	89.1	90.0	11.1	68.2	77.8	15.7	112.4	29.2	11.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	121.9	93.5	1.5	89.1	90.0	11.1	68.2	77.8	15.7	112.4	29.2	11.4
LOS	F	F	A	F	F	B	E	E	B	F	C	B
Approach Delay		98.7			65.0			67.1			55.6	
Approach LOS		F			E			E			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.13	
Intersection Signal Delay: 70.0	Intersection LOS: E
Intersection Capacity Utilization 104.8%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 14: Euclid Av. (SR-83) & Kimball Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	580	1040	82	95	501	274	98	1012	214	1024	1257	565
Future Volume (veh/h)	580	1040	82	95	501	274	98	1012	214	1024	1257	565
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1700	1800	1800	1700	1800	1800	1600	1800	1800
Adj Flow Rate, veh/h	592	1061	72	97	511	209	100	1033	176	1045	1283	535
Peak Hour Factor	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98	0.98
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	530	983	439	131	513	229	122	1024	381	924	2189	944
Arrive On Green	0.18	0.29	0.29	0.04	0.15	0.15	0.08	0.21	0.21	0.31	0.45	0.45
Sat Flow, veh/h	2956	3420	1525	3141	3420	1525	1619	4914	1525	2956	4914	1506
Grp Volume(v), veh/h	592	1061	72	97	511	209	100	1033	176	1045	1283	535
Grp Sat Flow(s),veh/h/ln	1478	1710	1525	1570	1710	1525	1619	1638	1525	1478	1638	1506
Q Serve(g_s), s	21.5	34.5	4.2	3.7	17.9	16.2	7.3	25.0	11.7	37.5	23.5	24.8
Cycle Q Clear(g_c), s	21.5	34.5	4.2	3.7	17.9	16.2	7.3	25.0	11.7	37.5	23.5	24.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	530	983	439	131	513	229	122	1024	381	924	2189	944
V/C Ratio(X)	1.12	1.08	0.16	0.74	1.00	0.91	0.82	1.01	0.46	1.13	0.59	0.57
Avail Cap(c_a), veh/h	530	983	439	131	513	229	196	1024	381	924	2189	944
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	49.3	42.7	32.0	56.9	51.0	50.2	54.7	47.5	38.2	41.2	25.0	13.1
Incr Delay (d2), s/veh	75.6	52.5	0.2	20.0	38.7	36.9	13.4	30.4	0.9	72.7	0.4	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	13.2	21.1	1.5	1.8	10.2	8.3	3.3	12.5	4.4	22.0	8.5	7.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	124.8	95.3	32.1	76.8	89.6	87.1	68.1	77.9	39.0	113.9	25.4	13.9
LnGrp LOS	F	F	C	E	F	F	E	F	D	F	C	B
Approach Vol, veh/h		1725			817			1309			2863	
Approach Delay, s/veh		102.8			87.5			71.9			55.6	
Approach LOS		F			F			E			E	

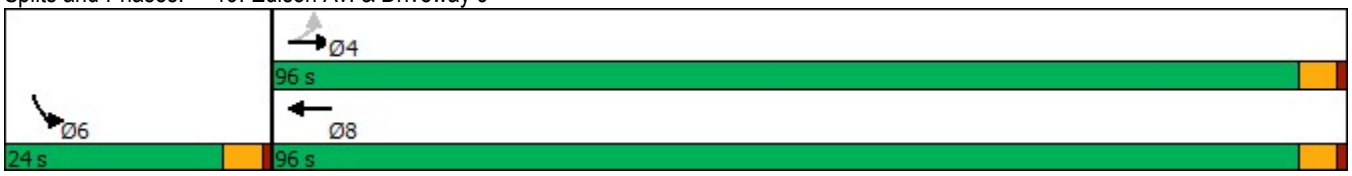
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	42.0	29.5	9.5	39.0	13.5	58.0	26.0	22.5
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	37.5	25.0	5.0	34.5	14.5	48.0	21.5	18.0
Max Q Clear Time (g_c+I1), s	39.5	27.0	5.7	36.5	9.3	26.8	23.5	19.9
Green Ext Time (p_c), s	0.0	0.0	0.0	0.0	0.1	10.6	0.0	0.0

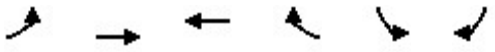
Intersection Summary	
HCM 6th Ctrl Delay	74.8
HCM 6th LOS	E

Lane Group	EBL	EBT	WBT	SBL
Lane Configurations				
Traffic Volume (vph)	188	793	890	138
Future Volume (vph)	188	793	890	138
Turn Type	Perm	NA	NA	Prot
Protected Phases		4	8	6
Permitted Phases	4			
Detector Phase	4	4	8	6
Switch Phase				
Minimum Initial (s)	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5
Total Split (s)	96.0	96.0	96.0	24.0
Total Split (%)	80.0%	80.0%	80.0%	20.0%
Yellow Time (s)	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5
Lead/Lag				
Lead-Lag Optimize?				
Recall Mode	None	None	None	Min
Act Effct Green (s)	60.8	60.8	60.8	15.5
Actuated g/C Ratio	0.70	0.70	0.70	0.18
v/c Ratio	1.03	0.65	0.79	0.68
Control Delay	88.0	9.0	12.9	48.4
Queue Delay	0.0	0.1	0.0	0.0
Total Delay	88.0	9.1	12.9	48.4
LOS	F	A	B	D
Approach Delay		24.2	12.9	48.4
Approach LOS		C	B	D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 86.8	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.03	
Intersection Signal Delay: 21.5	Intersection LOS: C
Intersection Capacity Utilization 84.4%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 19: Edison Av. & Driveway 9





Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Volume (veh/h)	188	793	890	68	138	68
Future Volume (veh/h)	188	793	890	68	138	68
Initial Q (Qb), veh	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00			1.00	1.00	1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No	No		No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	204	862	967	74	150	74
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0
Cap, veh/h	323	1433	1315	101	175	86
Arrive On Green	0.75	0.75	0.75	0.75	0.15	0.15
Sat Flow, veh/h	551	1900	1743	133	1159	572
Grp Volume(v), veh/h	204	862	0	1041	225	0
Grp Sat Flow(s),veh/h/ln	551	1900	0	1876	1739	0
Q Serve(g_s), s	30.8	19.3	0.0	29.0	12.0	0.0
Cycle Q Clear(g_c), s	59.8	19.3	0.0	29.0	12.0	0.0
Prop In Lane	1.00			0.07	0.67	0.33
Lane Grp Cap(c), veh/h	323	1433	0	1415	262	0
V/C Ratio(X)	0.63	0.60	0.00	0.74	0.86	0.00
Avail Cap(c_a), veh/h	438	1833	0	1810	357	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	0.00
Uniform Delay (d), s/veh	22.9	5.2	0.0	6.4	39.3	0.0
Incr Delay (d2), s/veh	2.0	0.4	0.0	1.2	14.3	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	3.7	4.7	0.0	7.2	6.1	0.0
Unsig. Movement Delay, s/veh						
LnGrp Delay(d),s/veh	25.0	5.6	0.0	7.6	53.6	0.0
LnGrp LOS	C	A	A	A	D	A
Approach Vol, veh/h		1066	1041		225	
Approach Delay, s/veh		9.3	7.6		53.6	
Approach LOS		A	A		D	

Timer - Assigned Phs			4		6	8
Phs Duration (G+Y+Rc), s			76.1		18.8	76.1
Change Period (Y+Rc), s			4.5		4.5	4.5
Max Green Setting (Gmax), s			91.5		19.5	91.5
Max Q Clear Time (g_c+I1), s			61.8		14.0	31.0
Green Ext Time (p_c), s			9.7		0.3	10.8

Intersection Summary	
HCM 6th Ctrl Delay	12.8
HCM 6th LOS	B

Intersection	
Int Delay, s/veh	2.8

Movement	EBL	EBT	WBT	WBR	SBL	SBR
Lane Configurations						
Traffic Vol, veh/h	6	924	942	65	105	12
Future Vol, veh/h	6	924	942	65	105	12
Conflicting Peds, #/hr	0	0	0	0	0	0
Sign Control	Free	Free	Free	Free	Stop	Stop
RT Channelized	-	None	-	None	-	None
Storage Length	100	-	-	-	0	100
Veh in Median Storage, #	-	0	0	-	1	-
Grade, %	-	0	0	-	0	-
Peak Hour Factor	92	92	92	92	92	92
Heavy Vehicles, %	0	0	0	0	0	0
Mvmt Flow	7	1004	1024	71	114	13

Major/Minor	Major1		Major2		Minor2	
Conflicting Flow All	1095	0	-	0	2078	1060
Stage 1	-	-	-	-	1060	-
Stage 2	-	-	-	-	1018	-
Critical Hdwy	4.1	-	-	-	6.4	6.2
Critical Hdwy Stg 1	-	-	-	-	5.4	-
Critical Hdwy Stg 2	-	-	-	-	5.4	-
Follow-up Hdwy	2.2	-	-	-	3.5	3.3
Pot Cap-1 Maneuver	645	-	-	-	~ 60	275
Stage 1	-	-	-	-	336	-
Stage 2	-	-	-	-	352	-
Platoon blocked, %		-	-	-		
Mov Cap-1 Maneuver	645	-	-	-	~ 59	275
Mov Cap-2 Maneuver	-	-	-	-	183	-
Stage 1	-	-	-	-	332	-
Stage 2	-	-	-	-	352	-

Approach	EB	WB	SB
HCM Control Delay, s	0.1	0	49.2
HCM LOS			E

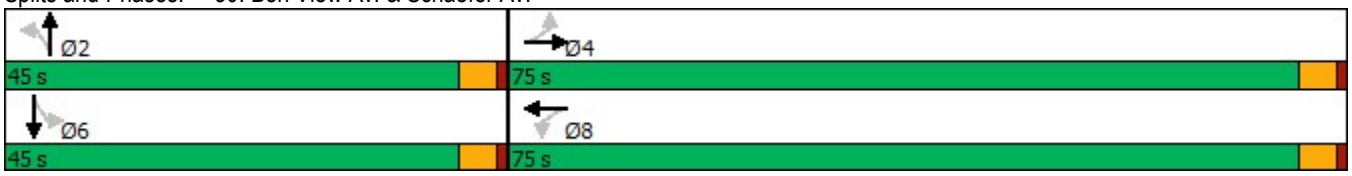
Minor Lane/Major Mvmt	EBL	EBT	WBT	WBR	SBLn1	SBLn2
Capacity (veh/h)	645	-	-	-	183	275
HCM Lane V/C Ratio	0.01	-	-	-	0.624	0.047
HCM Control Delay (s)	10.6	-	-	-	52.7	18.7
HCM Lane LOS	B	-	-	-	F	C
HCM 95th %tile Q(veh)	0	-	-	-	3.5	0.1

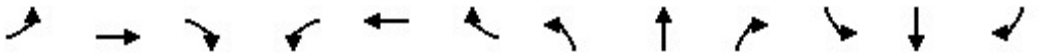
Notes			
~: Volume exceeds capacity	$: Delay exceeds 300s	+: Computation Not Defined	*: All major volume in platoon

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	67	475	24	196	59	193	19	124
Future Volume (vph)	67	475	24	196	59	193	19	124
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	75.0	75.0	75.0	75.0	45.0	45.0	45.0	45.0
Total Split (%)	62.5%	62.5%	62.5%	62.5%	37.5%	37.5%	37.5%	37.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)		0.0		0.0		0.0		0.0
Total Lost Time (s)		4.5		4.5		4.5		4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)		27.0		27.0		16.3		16.3
Actuated g/C Ratio		0.51		0.51		0.31		0.31
v/c Ratio		0.71		0.28		0.57		0.32
Control Delay		15.3		8.6		22.1		17.6
Queue Delay		0.0		0.0		0.0		0.0
Total Delay		15.3		8.6		22.1		17.6
LOS		B		A		C		B
Approach Delay		15.3		8.6		22.1		17.6
Approach LOS		B		A		C		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 53.1	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.71	
Intersection Signal Delay: 15.8	Intersection LOS: B
Intersection Capacity Utilization 76.5%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 30: Bon View Av. & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	67	475	55	24	196	16	59	193	28	19	124	23
Future Volume (veh/h)	67	475	55	24	196	16	59	193	28	19	124	23
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	71	505	59	26	209	17	63	205	30	20	132	24
Peak Hour Factor	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94	0.94
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	175	716	79	152	759	57	193	342	45	144	378	64
Arrive On Green	0.47	0.47	0.47	0.47	0.47	0.47	0.26	0.26	0.26	0.26	0.26	0.26
Sat Flow, veh/h	120	1510	167	73	1599	121	246	1320	175	97	1462	246
Grp Volume(v), veh/h	635	0	0	252	0	0	298	0	0	176	0	0
Grp Sat Flow(s),veh/h/ln	1796	0	0	1793	0	0	1741	0	0	1805	0	0
Q Serve(g_s), s	3.2	0.0	0.0	0.0	0.0	0.0	2.3	0.0	0.0	0.0	0.0	0.0
Cycle Q Clear(g_c), s	9.4	0.0	0.0	2.8	0.0	0.0	5.0	0.0	0.0	2.6	0.0	0.0
Prop In Lane	0.11		0.09	0.10		0.07	0.21		0.10	0.11		0.14
Lane Grp Cap(c), veh/h	971	0	0	968	0	0	580	0	0	586	0	0
V/C Ratio(X)	0.65	0.00	0.00	0.26	0.00	0.00	0.51	0.00	0.00	0.30	0.00	0.00
Avail Cap(c_a), veh/h	3794	0	0	3665	0	0	2164	0	0	2216	0	0
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00	1.00	0.00	0.00
Uniform Delay (d), s/veh	7.1	0.0	0.0	5.4	0.0	0.0	11.1	0.0	0.0	10.2	0.0	0.0
Incr Delay (d2), s/veh	0.8	0.0	0.0	0.1	0.0	0.0	0.7	0.0	0.0	0.3	0.0	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.5	0.0	0.0	0.4	0.0	0.0	1.3	0.0	0.0	0.7	0.0	0.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	7.8	0.0	0.0	5.5	0.0	0.0	11.8	0.0	0.0	10.5	0.0	0.0
LnGrp LOS	A	A	A	A	A	A	B	A	A	B	A	A
Approach Vol, veh/h		635			252			298			176	
Approach Delay, s/veh		7.8			5.5			11.8			10.5	
Approach LOS		A			A			B			B	

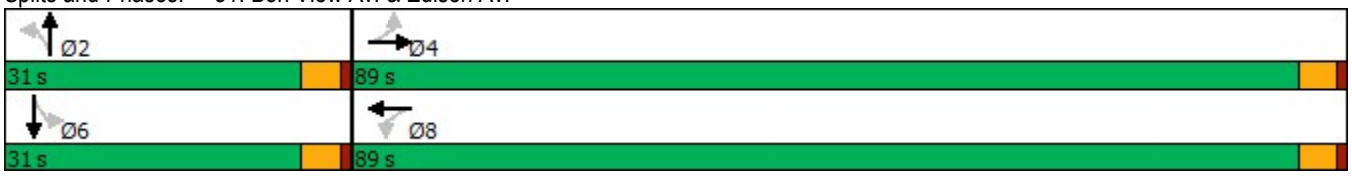
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		13.2		20.5		13.2		20.5				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		40.5		70.5		40.5		70.5				
Max Q Clear Time (g_c+I1), s		7.0		11.4		4.6		4.8				
Green Ext Time (p_c), s		1.7		4.6		0.9		1.5				

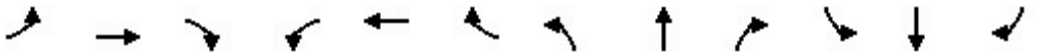
Intersection Summary												
HCM 6th Ctrl Delay			8.6									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	75	2121	28	982	73	205	22	199
Future Volume (vph)	75	2121	28	982	73	205	22	199
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	89.0	89.0	89.0	89.0	31.0	31.0	31.0	31.0
Total Split (%)	74.2%	74.2%	74.2%	74.2%	25.8%	25.8%	25.8%	25.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	70.8	70.8	70.8	70.8	20.3	20.3	20.3	20.3
Actuated g/C Ratio	0.70	0.70	0.70	0.70	0.20	0.20	0.20	0.20
v/c Ratio	0.26	0.70	0.41	0.30	0.62	0.76	0.23	0.68
Control Delay	8.5	10.1	26.2	5.9	62.6	52.2	43.8	48.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	8.5	10.1	26.2	5.9	62.6	52.2	43.8	48.1
LOS	A	B	C	A	E	D	D	D
Approach Delay		10.0		6.5		54.4		47.7
Approach LOS		B		A		D		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 100.5	
Natural Cycle: 60	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.76	
Intersection Signal Delay: 15.3	Intersection LOS: B
Intersection Capacity Utilization 83.5%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 31: Bon View Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	75	2121	218	28	982	19	73	205	59	22	199	40
Future Volume (veh/h)	75	2121	218	28	982	19	73	205	59	22	199	40
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	82	2305	237	30	1067	21	79	223	64	24	216	43
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	392	3283	331	122	3591	71	182	317	91	160	343	68
Arrive On Green	0.69	0.69	0.69	0.69	0.69	0.69	0.22	0.22	0.22	0.22	0.22	0.22
Sat Flow, veh/h	527	4788	483	128	5236	103	1138	1419	407	1109	1539	306
Grp Volume(v), veh/h	82	1653	889	30	704	384	79	0	287	24	0	259
Grp Sat Flow(s),veh/h/ln	527	1729	1813	128	1729	1881	1138	0	1827	1109	0	1845
Q Serve(g_s), s	7.2	28.4	29.9	18.7	7.9	7.9	6.7	0.0	14.3	2.0	0.0	12.5
Cycle Q Clear(g_c), s	15.1	28.4	29.9	48.5	7.9	7.9	19.2	0.0	14.3	16.3	0.0	12.5
Prop In Lane	1.00		0.27	1.00		0.05	1.00		0.22	1.00		0.17
Lane Grp Cap(c), veh/h	392	2371	1243	122	2371	1290	182	0	407	160	0	412
V/C Ratio(X)	0.21	0.70	0.72	0.25	0.30	0.30	0.43	0.00	0.70	0.15	0.00	0.63
Avail Cap(c_a), veh/h	481	2959	1551	144	2959	1610	234	0	490	210	0	495
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	9.1	9.3	9.6	24.5	6.1	6.1	43.3	0.0	35.4	42.9	0.0	34.7
Incr Delay (d2), s/veh	0.3	0.5	1.2	1.0	0.1	0.1	1.6	0.0	3.6	0.4	0.0	1.9
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.7	8.2	9.3	0.6	2.3	2.5	1.9	0.0	6.4	0.6	0.0	5.6
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	9.4	9.9	10.8	25.6	6.2	6.3	45.0	0.0	38.9	43.3	0.0	36.5
LnGrp LOS	A	A	B	C	A	A	D	A	D	D	A	D
Approach Vol, veh/h		2624			1118			366			283	
Approach Delay, s/veh		10.2			6.7			40.2			37.1	
Approach LOS		B			A			D			D	

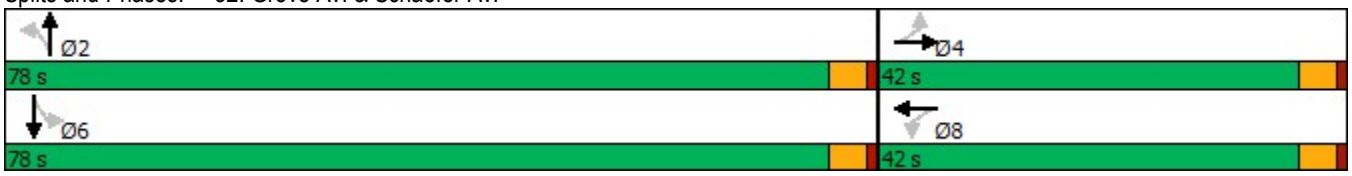
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		26.5		72.2		26.5		72.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		26.5		84.5		26.5		84.5				
Max Q Clear Time (g_c+I1), s		21.2		31.9		18.3		50.5				
Green Ext Time (p_c), s		0.8		35.9		0.9		10.2				

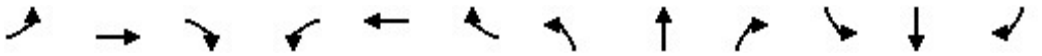
Intersection Summary												
HCM 6th Ctrl Delay			13.5									
HCM 6th LOS			B									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	144	255	7	122	43	700	132	488
Future Volume (vph)	144	255	7	122	43	700	132	488
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	42.0	42.0	42.0	42.0	78.0	78.0	78.0	78.0
Total Split (%)	35.0%	35.0%	35.0%	35.0%	65.0%	65.0%	65.0%	65.0%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	13.3	13.3	13.3	13.3	21.0	21.0	21.0	21.0
Actuated g/C Ratio	0.30	0.30	0.30	0.30	0.47	0.47	0.47	0.47
v/c Ratio	0.46	0.42	0.03	0.22	0.13	0.49	0.55	0.37
Control Delay	19.8	11.0	14.4	8.7	8.0	8.9	17.8	7.8
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	19.8	11.0	14.4	8.7	8.0	8.9	17.8	7.8
LOS	B	B	B	A	A	A	B	A
Approach Delay		13.2		8.9		8.9		9.6
Approach LOS		B		A		A		A

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 44.3	
Natural Cycle: 55	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.55	
Intersection Signal Delay: 10.2	Intersection LOS: B
Intersection Capacity Utilization 59.9%	ICU Level of Service B
Analysis Period (min) 15	

Splits and Phases: 32: Grove Av. & Schaefer Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	144	255	166	7	122	91	43	700	55	132	488	81
Future Volume (veh/h)	144	255	166	7	122	91	43	700	55	132	488	81
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	158	280	182	8	134	100	47	769	60	145	536	89
Peak Hour Factor	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91	0.91
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	447	625	394	340	599	417	485	1688	132	402	1543	255
Arrive On Green	0.29	0.29	0.29	0.29	0.29	0.29	0.50	0.50	0.50	0.50	0.50	0.50
Sat Flow, veh/h	1165	2124	1340	945	2035	1415	813	3393	265	672	3100	513
Grp Volume(v), veh/h	158	237	225	8	118	116	47	409	420	145	311	314
Grp Sat Flow(s),veh/h/ln	1165	1805	1659	945	1805	1645	813	1805	1852	672	1805	1808
Q Serve(g_s), s	5.2	4.6	4.8	0.3	2.1	2.3	1.6	6.4	6.4	7.7	4.5	4.6
Cycle Q Clear(g_c), s	7.5	4.6	4.8	5.1	2.1	2.3	6.2	6.4	6.4	14.1	4.5	4.6
Prop In Lane	1.00		0.81	1.00		0.86	1.00		0.14	1.00		0.28
Lane Grp Cap(c), veh/h	447	531	488	340	531	484	485	898	922	402	898	900
V/C Ratio(X)	0.35	0.45	0.46	0.02	0.22	0.24	0.10	0.46	0.46	0.36	0.35	0.35
Avail Cap(c_a), veh/h	1113	1564	1437	880	1564	1425	1461	3065	3145	1208	3065	3069
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	14.4	12.4	12.5	14.6	11.5	11.6	8.5	7.1	7.1	11.6	6.6	6.6
Incr Delay (d2), s/veh	0.5	0.6	0.7	0.0	0.2	0.3	0.1	0.4	0.4	0.5	0.2	0.2
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.1	1.4	1.4	0.1	0.7	0.7	0.2	1.4	1.4	0.8	1.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	14.9	13.0	13.1	14.6	11.7	11.8	8.6	7.4	7.4	12.2	6.8	6.8
LnGrp LOS	B	B	B	B	B	B	A	A	A	B	A	A
Approach Vol, veh/h		620			242			876			770	
Approach Delay, s/veh		13.5			11.9			7.5			7.8	
Approach LOS		B			B			A			A	

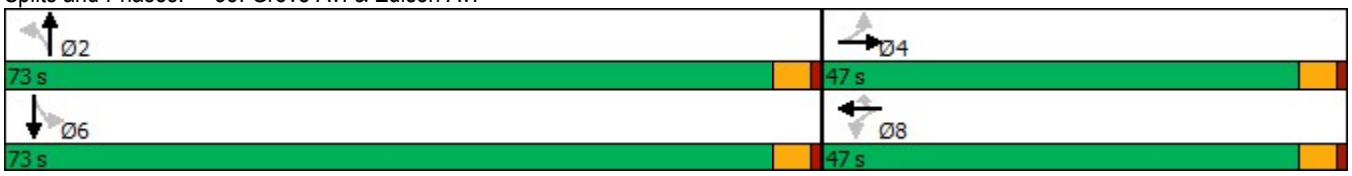
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		26.0		17.2		26.0		17.2				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		73.5		37.5		73.5		37.5				
Max Q Clear Time (g_c+I1), s		8.4		9.5		16.1		7.1				
Green Ext Time (p_c), s		5.8		3.3		5.4		1.3				

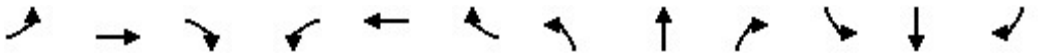
Intersection Summary												
HCM 6th Ctrl Delay			9.5									
HCM 6th LOS			A									

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations									
Traffic Volume (vph)	119	2056	27	1021	55	492	652	150	403
Future Volume (vph)	119	2056	27	1021	55	492	652	150	403
Turn Type	Perm	NA	Perm	NA	Perm	Perm	NA	Perm	NA
Protected Phases		4		8			2		6
Permitted Phases	4		8		8	2		6	
Detector Phase	4	4	8	8	8	2	2	6	6
Switch Phase									
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	47.0	47.0	47.0	47.0	47.0	73.0	73.0	73.0	73.0
Total Split (%)	39.2%	39.2%	39.2%	39.2%	39.2%	60.8%	60.8%	60.8%	60.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag									
Lead-Lag Optimize?									
Recall Mode	None	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	42.5	42.5	42.5	42.5	42.5	68.5	68.5	68.5	68.5
Actuated g/C Ratio	0.35	0.35	0.35	0.35	0.35	0.57	0.57	0.57	0.57
v/c Ratio	1.22	1.28	0.52	0.57	0.10	1.31	0.44	0.60	0.29
Control Delay	193.9	162.4	66.7	32.9	7.0	181.9	15.6	28.1	13.3
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	193.9	162.4	66.7	32.9	7.0	181.9	15.6	28.1	13.3
LOS	F	F	E	C	A	F	B	C	B
Approach Delay		164.0		32.4			78.1		16.5
Approach LOS		F		C			E		B

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 45	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.31	
Intersection Signal Delay: 98.5	Intersection LOS: F
Intersection Capacity Utilization 112.2%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 33: Grove Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	119	2056	197	27	1021	55	492	652	166	150	403	126
Future Volume (veh/h)	119	2056	197	27	1021	55	492	652	166	150	403	126
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1700	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	128	2211	137	29	1098	37	529	701	113	161	433	81
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	158	1783	110	60	1912	540	498	1727	278	377	1686	313
Arrive On Green	0.53	0.53	0.53	0.53	0.53	0.53	0.86	0.86	0.86	0.86	0.86	0.86
Sat Flow, veh/h	451	5035	309	139	5400	1525	806	3025	487	610	2953	548
Grp Volume(v), veh/h	128	1576	772	29	1098	37	529	417	397	161	263	251
Grp Sat Flow(s),veh/h/ln	451	1800	1744	139	1800	1525	806	1800	1712	610	1800	1701
Q Serve(g_s), s	26.0	42.5	42.5	0.0	16.5	1.4	65.2	6.1	6.1	11.6	3.2	3.3
Cycle Q Clear(g_c), s	42.5	42.5	42.5	42.5	16.5	1.4	68.5	6.1	6.1	17.7	3.2	3.3
Prop In Lane	1.00		0.18	1.00		1.00	1.00		0.28	1.00		0.32
Lane Grp Cap(c), veh/h	158	1275	618	60	1913	540	498	1028	977	377	1028	971
V/C Ratio(X)	0.81	1.24	1.25	0.48	0.57	0.07	1.06	0.41	0.41	0.43	0.26	0.26
Avail Cap(c_a), veh/h	158	1275	618	60	1913	540	498	1028	977	377	1028	971
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	39.4	28.1	28.1	49.4	22.0	18.5	14.2	4.1	4.1	6.1	3.9	3.9
Incr Delay (d2), s/veh	26.3	113.1	125.6	5.9	0.4	0.1	57.9	0.3	0.3	0.8	0.1	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	4.7	34.0	35.1	0.9	5.7	0.5	11.4	1.7	1.6	0.8	1.0	1.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	65.7	141.2	153.7	55.3	22.4	18.5	72.1	4.4	4.4	6.9	4.1	4.1
LnGrp LOS	E	F	F	E	C	B	F	A	A	A	A	A
Approach Vol, veh/h		2476			1164			1343			675	
Approach Delay, s/veh		141.2			23.1			31.1			4.7	
Approach LOS		F			C			C			A	

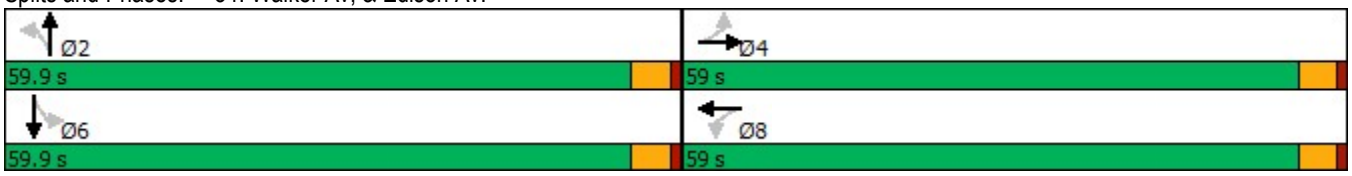
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		73.0		47.0		73.0		47.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		68.5		42.5		68.5		42.5				
Max Q Clear Time (g_c+I1), s		70.5		44.5		19.7		44.5				
Green Ext Time (p_c), s		0.0		0.0		4.8		0.0				

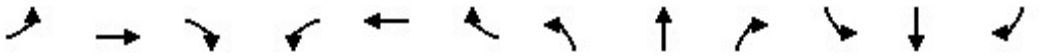
Intersection Summary												
HCM 6th Ctrl Delay			74.5									
HCM 6th LOS			E									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	23	2360	267	1053	1	121	191	143
Future Volume (vph)	23	2360	267	1053	1	121	191	143
Turn Type	Perm	NA	Perm	NA	Perm	NA	Perm	NA
Protected Phases		4		8		2		6
Permitted Phases	4		8		2		6	
Detector Phase	4	4	8	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	22.5	22.5	22.5	22.5	22.5	22.5	22.5	22.5
Total Split (s)	59.0	59.0	59.0	59.0	59.9	59.9	59.9	59.9
Total Split (%)	49.6%	49.6%	49.6%	49.6%	50.4%	50.4%	50.4%	50.4%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag								
Lead-Lag Optimize?								
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	54.5	54.5	54.5	54.5	55.4	55.4	55.4	55.4
Actuated g/C Ratio	0.46	0.46	0.46	0.46	0.47	0.47	0.47	0.47
v/c Ratio	0.19	0.75	4.60	0.43	0.00	1.23	3.30	0.20
Control Delay	23.7	28.2	1668.9	20.9	17.0	146.8	1090.7	18.6
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	23.7	28.2	1668.9	20.9	17.0	146.8	1090.7	18.6
LOS	C	C	F	C	B	F	F	B
Approach Delay		28.1		294.9		146.7		596.4
Approach LOS		C		F		F		F

Intersection Summary		
Cycle Length: 118.9		
Actuated Cycle Length: 118.9		
Natural Cycle: 45		
Control Type: Actuated-Uncoordinated		
Maximum v/c Ratio: 4.60		
Intersection Signal Delay: 167.9	Intersection LOS: F	
Intersection Capacity Utilization 128.0%	ICU Level of Service H	
Analysis Period (min) 15		

Splits and Phases: 34: Walker Av, & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	23	2360	30	267	1053	284	1	121	754	191	143	21
Future Volume (veh/h)	23	2360	30	267	1053	284	1	121	754	191	143	21
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	25	2565	22	290	1145	157	1	132	412	208	155	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	233	3524	30	94	3067	417	584	184	575	283	791	61
Arrive On Green	0.70	0.70	0.70	0.70	0.70	0.70	0.68	0.68	0.68	0.68	0.68	0.68
Sat Flow, veh/h	430	7524	64	122	6549	891	1238	406	1266	876	1741	135
Grp Volume(v), veh/h	25	1943	644	290	995	307	1	0	544	208	0	167
Grp Sat Flow(s),veh/h/ln	430	1900	1888	122	1900	1740	1238	0	1672	876	0	1876
Q Serve(g_s), s	3.0	24.1	24.2	30.3	8.2	8.3	0.0	0.0	23.6	26.7	0.0	3.8
Cycle Q Clear(g_c), s	11.3	24.1	24.2	54.5	8.2	8.3	3.8	0.0	23.6	50.3	0.0	3.8
Prop In Lane	1.00		0.03	1.00		0.51	1.00		0.76	1.00		0.07
Lane Grp Cap(c), veh/h	233	2670	884	94	2670	815	584	0	760	283	0	852
V/C Ratio(X)	0.11	0.73	0.73	3.09	0.37	0.38	0.00	0.00	0.72	0.74	0.00	0.20
Avail Cap(c_a), veh/h	233	2670	884	94	2670	815	611	0	796	302	0	893
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	12.7	12.8	12.8	39.4	10.4	10.4	11.4	0.0	13.9	29.5	0.0	10.7
Incr Delay (d2), s/veh	0.2	1.0	3.1	969.9	0.1	0.3	0.0	0.0	2.9	8.5	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	6.3	6.8	27.8	2.8	2.7	0.0	0.0	6.1	5.4	0.0	1.5
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	12.9	13.8	15.9	1009.3	10.5	10.7	11.4	0.0	16.8	38.0	0.0	10.8
LnGrp LOS	B	B	B	F	B	B	B	A	B	D	A	B
Approach Vol, veh/h		2612			1592			545			375	
Approach Delay, s/veh		14.3			192.5			16.8			25.9	
Approach LOS		B			F			B			C	

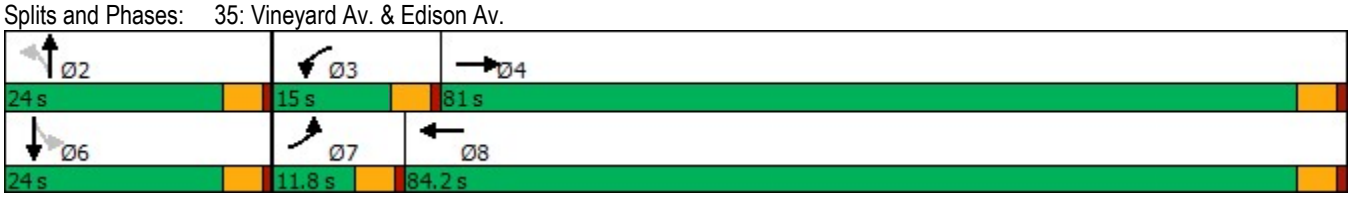
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		57.4		59.0		57.4		59.0				
Change Period (Y+Rc), s		4.5		4.5		4.5		4.5				
Max Green Setting (Gmax), s		55.4		54.5		55.4		54.5				
Max Q Clear Time (g_c+I1), s		25.6		26.2		52.3		56.5				
Green Ext Time (p_c), s		3.8		21.7		0.6		0.0				

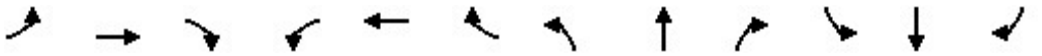
Intersection Summary												
HCM 6th Ctrl Delay			70.8									
HCM 6th LOS			E									

Lane Group	EBL	EBT	WBL	WBT	NBL	NBT	SBL	SBT
Lane Configurations								
Traffic Volume (vph)	37	2621	72	2090	24	12	63	21
Future Volume (vph)	37	2621	72	2090	24	12	63	21
Turn Type	Prot	NA	Prot	NA	Perm	NA	Perm	NA
Protected Phases	7	4	3	8		2		6
Permitted Phases					2		6	
Detector Phase	7	4	3	8	2	2	6	6
Switch Phase								
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.6	21.6	9.6	21.6	21.6	21.6	21.6	21.6
Total Split (s)	11.8	81.0	15.0	84.2	24.0	24.0	24.0	24.0
Total Split (%)	9.8%	67.5%	12.5%	70.2%	20.0%	20.0%	20.0%	20.0%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Lead/Lag	Lead	Lag	Lead	Lag				
Lead-Lag Optimize?	Yes	Yes	Yes	Yes				
Recall Mode	None	None	None	None	Min	Min	Min	Min
Act Effct Green (s)	6.8	64.4	8.7	68.4	11.8	11.8	11.8	11.8
Actuated g/C Ratio	0.07	0.67	0.09	0.71	0.12	0.12	0.12	0.12
v/c Ratio	0.31	0.84	0.48	0.64	0.15	0.52	0.60	0.17
Control Delay	58.3	16.5	59.7	9.4	45.7	25.8	67.9	30.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	58.3	16.5	59.7	9.4	45.7	25.8	67.9	30.7
LOS	E	B	E	A	D	C	E	C
Approach Delay		17.1		11.0		28.8		54.2
Approach LOS		B		B		C		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 96.5	
Natural Cycle: 90	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.84	
Intersection Signal Delay: 15.6	Intersection LOS: B
Intersection Capacity Utilization 83.8%	ICU Level of Service E
Analysis Period (min) 15	

Splits and Phases: 35: Vineyard Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	37	2621	57	72	2090	54	24	12	124	63	21	16
Future Volume (veh/h)	37	2621	57	72	2090	54	24	12	124	63	21	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	40	2849	62	78	2272	59	26	13	135	68	23	17
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	61	3391	73	101	3488	90	272	22	231	167	158	116
Arrive On Green	0.03	0.65	0.65	0.06	0.67	0.67	0.16	0.16	0.16	0.16	0.16	0.16
Sat Flow, veh/h	1810	5225	113	1810	5199	135	1466	143	1489	1329	1015	750
Grp Volume(v), veh/h	40	1879	1032	78	1509	822	26	0	148	68	0	40
Grp Sat Flow(s),veh/h/ln	1810	1729	1880	1810	1729	1876	1466	0	1632	1329	0	1765
Q Serve(g_s), s	2.2	41.1	42.1	4.2	25.1	25.3	1.5	0.0	8.3	4.9	0.0	1.9
Cycle Q Clear(g_c), s	2.2	41.1	42.1	4.2	25.1	25.3	3.5	0.0	8.3	13.2	0.0	1.9
Prop In Lane	1.00		0.06	1.00		0.07	1.00		0.91	1.00		0.43
Lane Grp Cap(c), veh/h	61	2244	1220	101	2320	1258	272	0	253	167	0	274
V/C Ratio(X)	0.65	0.84	0.85	0.78	0.65	0.65	0.10	0.00	0.58	0.41	0.00	0.15
Avail Cap(c_a), veh/h	132	2682	1458	191	2795	1516	333	0	321	223	0	348
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	47.0	13.3	13.5	45.9	9.5	9.5	37.5	0.0	38.7	44.8	0.0	36.0
Incr Delay (d2), s/veh	4.4	1.8	3.6	4.7	0.2	0.4	0.1	0.0	0.8	0.6	0.0	0.1
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	1.0	12.5	14.5	1.9	7.1	7.8	0.5	0.0	3.2	1.6	0.0	0.8
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	51.4	15.1	17.0	50.6	9.7	9.9	37.5	0.0	39.4	45.4	0.0	36.1
LnGrp LOS	D	B	B	D	A	A	D	A	D	D	A	D
Approach Vol, veh/h		2951			2409			174			108	
Approach Delay, s/veh		16.3			11.1			39.2			41.9	
Approach LOS		B			B			D			D	

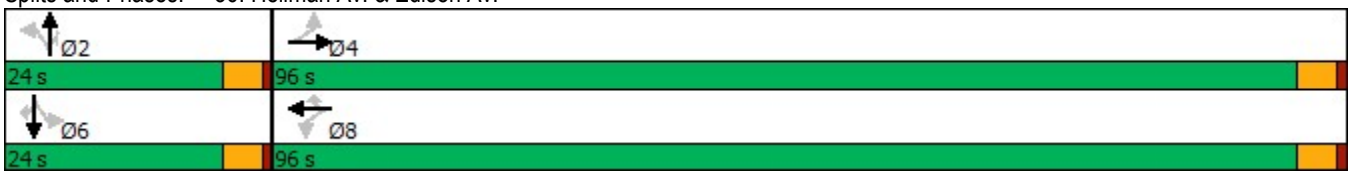
Timer - Assigned Phs		2	3	4		6	7	8				
Phs Duration (G+Y+Rc), s		19.9	10.1	68.5		19.9	7.9	70.7				
Change Period (Y+Rc), s		4.6	4.6	4.6		4.6	4.6	4.6				
Max Green Setting (Gmax), s		19.4	10.4	76.4		19.4	7.2	79.6				
Max Q Clear Time (g_c+I1), s		10.3	6.2	44.1		15.2	4.2	27.3				
Green Ext Time (p_c), s		0.3	0.0	19.8		0.1	0.0	15.7				

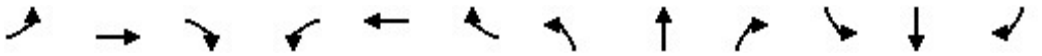
Intersection Summary	
HCM 6th Ctrl Delay	15.2
HCM 6th LOS	B

Lane Group	EBL	EBT	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations											
Traffic Volume (vph)	12	2699	204	2040	36	94	31	272	127	61	16
Future Volume (vph)	12	2699	204	2040	36	94	31	272	127	61	16
Turn Type	Perm	NA	Perm	NA	Perm	Perm	NA	Perm	Perm	NA	Perm
Protected Phases		4		8			2			6	
Permitted Phases	4		8		8	2		2	6		6
Detector Phase	4	4	8	8	8	2	2	2	6	6	6
Switch Phase											
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6	21.6
Total Split (s)	96.0	96.0	96.0	96.0	96.0	24.0	24.0	24.0	24.0	24.0	24.0
Total Split (%)	80.0%	80.0%	80.0%	80.0%	80.0%	20.0%	20.0%	20.0%	20.0%	20.0%	20.0%
Yellow Time (s)	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
Lead/Lag											
Lead-Lag Optimize?											
Recall Mode	None	None	None	None	None	Min	Min	Min	Min	Min	Min
Act Effct Green (s)	91.4	91.4	91.4	91.4	91.4	19.4	19.4	19.4	19.4	19.4	19.4
Actuated g/C Ratio	0.76	0.76	0.76	0.76	0.76	0.16	0.16	0.16	0.16	0.16	0.16
v/c Ratio	0.21	1.11	3.52	0.81	0.03	0.47	0.11	1.08	0.61	0.21	0.06
Control Delay	12.6	70.5	1187.6	11.9	1.1	53.4	44.1	123.7	59.6	45.8	18.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	12.6	70.5	1187.6	11.9	1.1	53.4	44.1	123.7	59.6	45.8	18.5
LOS	B	E	F	B	A	D	D	F	E	D	B
Approach Delay		70.2		117.0			100.9			52.3	
Approach LOS		E		F			F			D	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 3.52	
Intersection Signal Delay: 90.5	Intersection LOS: F
Intersection Capacity Utilization 113.8%	ICU Level of Service H
Analysis Period (min) 15	

Splits and Phases: 36: Hellman Av. & Edison Av.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	12	2699	85	204	2040	36	94	31	272	127	61	16
Future Volume (veh/h)	12	2699	85	204	2040	36	94	31	272	127	61	16
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	13	2934	49	222	2217	23	102	34	166	138	66	12
Peak Hour Factor	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92	0.92
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	140	2837	47	61	2818	1257	217	267	227	220	267	227
Arrive On Green	0.78	0.78	0.78	0.78	0.78	0.78	0.14	0.14	0.14	0.14	0.14	0.14
Sat Flow, veh/h	182	3634	61	87	3610	1610	1416	1900	1610	1268	1900	1610
Grp Volume(v), veh/h	13	1453	1530	222	2217	23	102	34	166	138	66	12
Grp Sat Flow(s),veh/h/ln	182	1805	1889	87	1805	1610	1416	1900	1610	1268	1900	1610
Q Serve(g_s), s	5.1	91.4	91.4	0.0	40.9	0.4	8.1	1.8	11.6	12.5	3.6	0.8
Cycle Q Clear(g_c), s	46.0	91.4	91.4	91.4	40.9	0.4	11.7	1.8	11.6	14.3	3.6	0.8
Prop In Lane	1.00		0.03	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	140	1409	1475	61	2818	1257	217	267	227	220	267	227
V/C Ratio(X)	0.09	1.03	1.04	3.61	0.79	0.02	0.47	0.13	0.73	0.63	0.25	0.05
Avail Cap(c_a), veh/h	140	1409	1475	61	2818	1257	252	315	267	252	315	267
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	20.4	12.8	12.8	58.5	7.3	2.9	50.0	44.0	48.2	50.3	44.8	43.5
Incr Delay (d2), s/veh	0.1	32.4	33.7	1213.7	1.4	0.0	0.6	0.1	6.3	2.3	0.2	0.0
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	0.2	34.2	36.4	22.5	10.2	0.1	2.9	0.9	5.0	4.1	1.7	0.3
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	20.5	45.3	46.5	1272.3	8.7	2.9	50.6	44.1	54.5	52.6	45.0	43.6
LnGrp LOS	C	F	F	F	A	A	D	D	D	D	D	D
Approach Vol, veh/h		2996			2462			302			216	
Approach Delay, s/veh		45.8			122.6			52.0			49.7	
Approach LOS		D			F			D			D	

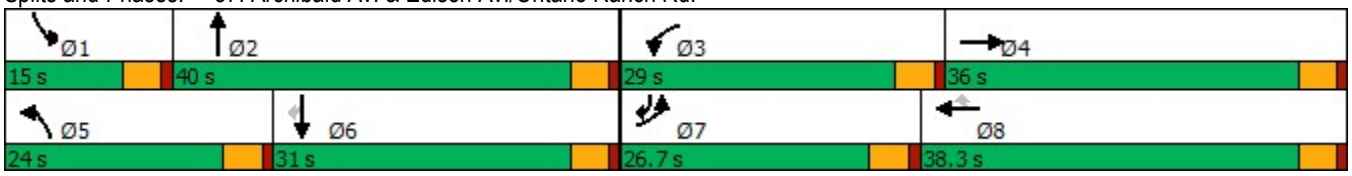
Timer - Assigned Phs		2		4		6		8				
Phs Duration (G+Y+Rc), s		21.1		96.0		21.1		96.0				
Change Period (Y+Rc), s		4.6		4.6		4.6		4.6				
Max Green Setting (Gmax), s		19.4		91.4		19.4		91.4				
Max Q Clear Time (g_c+I1), s		13.7		93.4		16.3		93.4				
Green Ext Time (p_c), s		0.3		0.0		0.1		0.0				

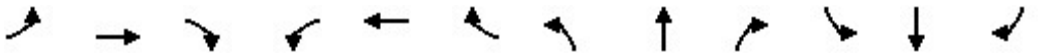
Intersection Summary												
HCM 6th Ctrl Delay			77.9									
HCM 6th LOS			E									

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	367	1920	828	575	1379	157	490	1261	669	236	1060	271
Future Volume (vph)	367	1920	828	575	1379	157	490	1261	669	236	1060	271
Turn Type	Prot	NA	Free	Prot	NA	Perm	Prot	NA	Free	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2		1	6	7
Permitted Phases			Free			8			Free			6
Detector Phase	7	4		3	8	8	5	2		1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0		5.0	5.0	5.0	5.0	5.0		5.0	5.0	5.0
Minimum Split (s)	9.5	22.5		9.5	22.5	22.5	9.5	22.5		9.5	22.5	9.5
Total Split (s)	26.7	36.0		29.0	38.3	38.3	24.0	40.0		15.0	31.0	26.7
Total Split (%)	22.3%	30.0%		24.2%	31.9%	31.9%	20.0%	33.3%		12.5%	25.8%	22.3%
Yellow Time (s)	3.5	3.5		3.5	3.5	3.5	3.5	3.5		3.5	3.5	3.5
All-Red Time (s)	1.0	1.0		1.0	1.0	1.0	1.0	1.0		1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5		4.5	4.5	4.5	4.5	4.5		4.5	4.5	4.5
Lead/Lag	Lead	Lag		Lead	Lag	Lag	Lead	Lag		Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes		Yes	Yes	Yes	Yes	Yes		Yes	Yes	Yes
Recall Mode	None	None		None	None	None	None	Min		None	Min	None
Act Effct Green (s)	19.6	31.5	120.0	24.5	36.4	36.4	19.5	35.5	120.0	10.5	26.5	50.6
Actuated g/C Ratio	0.16	0.26	1.00	0.20	0.30	0.30	0.16	0.30	1.00	0.09	0.22	0.42
v/c Ratio	0.78	1.07	0.57	0.98	0.77	0.29	1.01	0.83	0.46	0.91	0.94	0.41
Control Delay	59.3	84.4	1.5	78.4	41.9	6.3	93.3	44.9	1.0	89.2	60.8	17.1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	59.3	84.4	1.5	78.4	41.9	6.3	93.3	44.9	1.0	89.2	60.8	17.1
LOS	E	F	A	E	D	A	F	D	A	F	E	B
Approach Delay		59.4			49.2			42.6			57.5	
Approach LOS		E			D			D			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 120	
Natural Cycle: 110	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.07	
Intersection Signal Delay: 52.3	Intersection LOS: D
Intersection Capacity Utilization 101.1%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 37: Archibald Av. & Edison Av./Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	367	1920	828	575	1379	157	490	1261	669	236	1060	271
Future Volume (veh/h)	367	1920	828	575	1379	157	490	1261	669	236	1060	271
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1600	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	386	2021	0	605	1452	91	516	1327	0	248	1116	153
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	445	1891		622	1987	489	511	1596		275	1191	559
Arrive On Green	0.15	0.26	0.00	0.20	0.32	0.32	0.16	0.30	0.00	0.09	0.22	0.22
Sat Flow, veh/h	3048	7200	1525	3048	6192	1524	3141	5400	1525	3141	5400	1525
Grp Volume(v), veh/h	386	2021	0	605	1452	91	516	1327	0	248	1116	153
Grp Sat Flow(s),veh/h/ln	1524	1800	1525	1524	1548	1524	1570	1800	1525	1570	1800	1525
Q Serve(g_s), s	14.9	31.5	0.0	23.6	25.0	5.2	19.5	27.5	0.0	9.4	24.4	8.5
Cycle Q Clear(g_c), s	14.9	31.5	0.0	23.6	25.0	5.2	19.5	27.5	0.0	9.4	24.4	8.5
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	445	1891		622	1987	489	511	1596		275	1191	559
V/C Ratio(X)	0.87	1.07		0.97	0.73	0.19	1.01	0.83		0.90	0.94	0.27
Avail Cap(c_a), veh/h	564	1891		622	1987	489	511	1598		275	1193	560
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	0.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	50.1	44.2	0.0	47.4	36.1	29.4	50.2	39.5	0.0	54.2	45.9	26.8
Incr Delay (d2), s/veh	11.3	41.9	0.0	29.0	1.4	0.2	42.5	3.9	0.0	30.3	13.6	0.3
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	6.1	18.8	0.0	11.1	9.1	1.8	10.3	12.0	0.0	4.7	11.8	3.0
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.4	86.2	0.0	76.4	37.5	29.6	92.7	43.3	0.0	84.5	59.6	27.0
LnGrp LOS	E	F		E	D	C	F	D		F	E	C
Approach Vol, veh/h		2407	A		2148			1843	A		1517	
Approach Delay, s/veh		82.2			48.2			57.2			60.4	
Approach LOS		F			D			E			E	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.0	40.0	29.0	36.0	24.0	31.0	22.0	43.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	10.5	35.5	24.5	31.5	19.5	26.5	22.2	33.8
Max Q Clear Time (g_c+I1), s	11.4	29.5	25.6	33.5	21.5	26.4	16.9	27.0
Green Ext Time (p_c), s	0.0	3.7	0.0	0.0	0.0	0.1	0.6	4.7

Intersection Summary	
HCM 6th Ctrl Delay	62.9
HCM 6th LOS	E

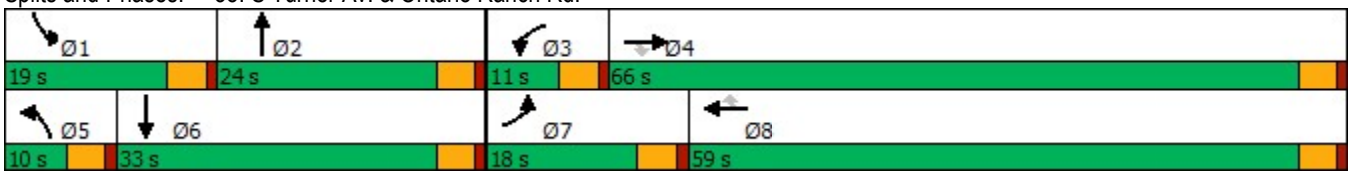
Notes

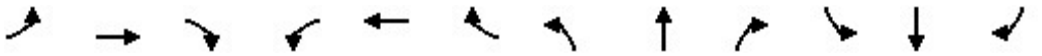
Unsignalized Delay for [NBR, EBR] is excluded from calculations of the approach delay and intersection delay.

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	SBL	SBT
Lane Configurations										
Traffic Volume (vph)	163	2444	53	66	2145	153	19	21	160	46
Future Volume (vph)	163	2444	53	66	2145	153	19	21	160	46
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Prot	NA
Protected Phases	7	4		3	8		5	2	1	6
Permitted Phases			4			8				
Detector Phase	7	4	4	3	8	8	5	2	1	6
Switch Phase										
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	22.5
Total Split (s)	18.0	66.0	66.0	11.0	59.0	59.0	10.0	24.0	19.0	33.0
Total Split (%)	15.0%	55.0%	55.0%	9.2%	49.2%	49.2%	8.3%	20.0%	15.8%	27.5%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	Min
Act Effct Green (s)	13.1	63.7	63.7	6.5	54.7	54.7	5.5	8.6	13.6	22.9
Actuated g/C Ratio	0.12	0.59	0.59	0.06	0.51	0.51	0.05	0.08	0.13	0.21
v/c Ratio	0.80	0.86	0.06	0.66	0.88	0.18	0.22	0.34	0.76	0.32
Control Delay	73.6	24.0	0.1	79.1	29.5	2.7	57.6	28.9	68.1	21.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	73.6	24.0	0.1	79.1	29.5	2.7	57.6	28.9	68.1	21.7
LOS	E	C	A	E	C	A	E	C	E	C
Approach Delay		26.5			29.2			36.3		47.9
Approach LOS		C			C			D		D

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 108.1	
Natural Cycle: 100	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.88	
Intersection Signal Delay: 28.9	Intersection LOS: C
Intersection Capacity Utilization 78.4%	ICU Level of Service D
Analysis Period (min) 15	

Splits and Phases: 38: S Turner Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	163	2444	53	66	2145	153	19	21	33	160	46	78
Future Volume (veh/h)	163	2444	53	66	2145	153	19	21	33	160	46	78
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	175	2628	52	71	2306	162	20	23	23	172	49	82
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	208	3118	968	92	2784	864	39	44	44	206	92	153
Arrive On Green	0.12	0.60	0.60	0.05	0.54	0.54	0.02	0.05	0.05	0.11	0.14	0.14
Sat Flow, veh/h	1810	5187	1610	1810	5187	1610	1810	872	872	1810	639	1069
Grp Volume(v), veh/h	175	2628	52	71	2306	162	20	0	46	172	0	131
Grp Sat Flow(s),veh/h/ln	1810	1729	1610	1810	1729	1610	1810	0	1743	1810	0	1708
Q Serve(g_s), s	9.3	40.2	1.3	3.8	36.4	5.1	1.1	0.0	2.5	9.1	0.0	7.0
Cycle Q Clear(g_c), s	9.3	40.2	1.3	3.8	36.4	5.1	1.1	0.0	2.5	9.1	0.0	7.0
Prop In Lane	1.00		1.00	1.00		1.00	1.00		0.50	1.00		0.63
Lane Grp Cap(c), veh/h	208	3118	968	92	2784	864	39	0	89	206	0	245
V/C Ratio(X)	0.84	0.84	0.05	0.77	0.83	0.19	0.52	0.00	0.52	0.84	0.00	0.54
Avail Cap(c_a), veh/h	249	3252	1010	120	2882	895	101	0	347	267	0	496
HCM Platoon Ratio	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	0.00	1.00	1.00	0.00	1.00
Uniform Delay (d), s/veh	42.5	15.8	8.1	46.0	19.0	11.7	47.5	0.0	45.4	42.6	0.0	39.0
Incr Delay (d2), s/veh	19.2	2.1	0.0	20.2	2.1	0.1	10.2	0.0	4.6	16.1	0.0	1.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	5.1	13.6	0.4	2.2	13.1	1.7	0.6	0.0	1.2	4.8	0.0	2.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	61.7	17.9	8.1	66.2	21.0	11.8	57.7	0.0	50.0	58.7	0.0	40.8
LnGrp LOS	E	B	A	E	C	B	E	A	D	E	A	D
Approach Vol, veh/h		2855			2539			66			303	
Approach Delay, s/veh		20.4			21.7			52.3			50.9	
Approach LOS		C			C			D			D	

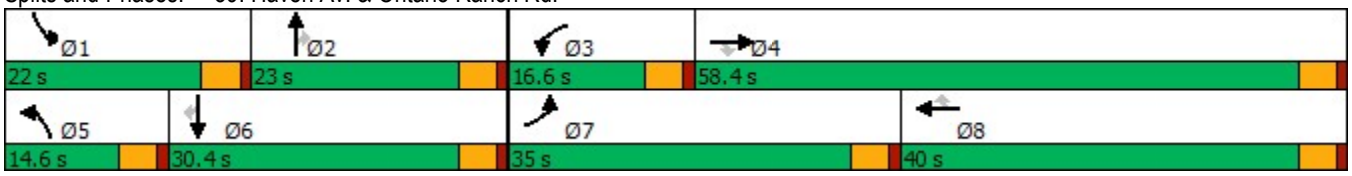
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	15.7	9.5	9.5	63.5	6.6	18.6	15.8	57.1
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	14.5	19.5	6.5	61.5	5.5	28.5	13.5	54.5
Max Q Clear Time (g_c+I1), s	11.1	4.5	5.8	42.2	3.1	9.0	11.3	38.4
Green Ext Time (p_c), s	0.1	0.1	0.0	16.8	0.0	0.6	0.1	13.4

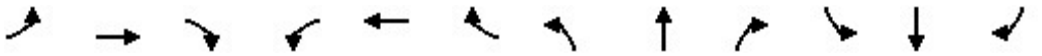
Intersection Summary	
HCM 6th Ctrl Delay	23.0
HCM 6th LOS	C

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	462	1995	91	268	1975	277	85	407	116	257	441	180
Future Volume (vph)	462	1995	91	268	1975	277	85	407	116	257	441	180
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	Perm
Protected Phases	7	4		3	8		5	2		1	6	
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	2	1	6	6
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	22.5
Total Split (s)	35.0	58.4	58.4	16.6	40.0	40.0	14.6	23.0	23.0	22.0	30.4	30.4
Total Split (%)	29.2%	48.7%	48.7%	13.8%	33.3%	33.3%	12.2%	19.2%	19.2%	18.3%	25.3%	25.3%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lag
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	Min	None	Min	Min
Act Effct Green (s)	30.5	53.9	53.9	12.1	35.5	35.5	9.6	17.9	17.9	17.5	25.8	25.8
Actuated g/C Ratio	0.26	0.45	0.45	0.10	0.30	0.30	0.08	0.15	0.15	0.15	0.22	0.22
v/c Ratio	1.21	0.97	0.13	0.97	1.15	0.46	0.71	0.85	0.33	1.17	0.64	0.41
Control Delay	152.9	45.1	1.6	97.8	114.6	6.6	82.0	66.1	4.2	156.6	47.3	8.2
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	152.9	45.1	1.6	97.8	114.6	6.6	82.0	66.1	4.2	156.6	47.3	8.2
LOS	F	D	A	F	F	A	F	E	A	F	D	A
Approach Delay		63.1			101.0			56.5			71.2	
Approach LOS		E			F			E			E	

Intersection Summary	
Cycle Length: 120	
Actuated Cycle Length: 119.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 1.21	
Intersection Signal Delay: 78.1	Intersection LOS: E
Intersection Capacity Utilization 101.7%	ICU Level of Service G
Analysis Period (min) 15	

Splits and Phases: 39: Haven Av. & Ontario Ranch Rd.





Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	462	1995	91	268	1975	277	85	407	116	257	441	180
Future Volume (veh/h)	462	1995	91	268	1975	277	85	407	116	257	441	180
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		0.99	1.00		1.00	1.00		0.99
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1700	1800	1800	1600	1800	1800	1700	1800	1800	1700	1800	1800
Adj Flow Rate, veh/h	497	2145	55	288	2124	153	91	438	60	276	474	97
Peak Hour Factor	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93	0.93
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	416	2229	692	301	1850	452	111	498	222	238	768	340
Arrive On Green	0.39	0.68	0.68	0.15	0.45	0.45	0.10	0.22	0.22	0.22	0.34	0.34
Sat Flow, veh/h	1619	4914	1525	2956	6192	1513	1619	3420	1522	1619	3420	1515
Grp Volume(v), veh/h	497	2145	55	288	2124	153	91	438	60	276	474	97
Grp Sat Flow(s),veh/h/ln	1619	1638	1525	1478	1548	1513	1619	1710	1522	1619	1710	1515
Q Serve(g_s), s	30.5	48.0	1.4	11.5	35.5	7.8	6.5	14.7	3.9	17.5	13.8	5.6
Cycle Q Clear(g_c), s	30.5	48.0	1.4	11.5	35.5	7.8	6.5	14.7	3.9	17.5	13.8	5.6
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	416	2229	692	301	1850	452	111	498	222	238	768	340
V/C Ratio(X)	1.20	0.96	0.08	0.96	1.15	0.34	0.82	0.88	0.27	1.16	0.62	0.29
Avail Cap(c_a), veh/h	416	2229	692	301	1850	452	138	533	237	238	768	340
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	36.5	18.0	10.6	50.1	32.8	25.1	52.6	45.4	41.2	46.3	35.1	32.4
Incr Delay (d2), s/veh	109.4	11.5	0.0	40.2	73.4	0.4	26.2	14.9	0.6	107.4	1.5	0.5
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	22.5	12.5	0.5	5.5	19.7	2.6	3.3	6.6	1.4	13.3	5.2	1.9
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	145.9	29.6	10.6	90.2	106.2	25.6	78.8	60.3	41.8	153.7	36.6	32.9
LnGrp LOS	F	C	B	F	F	C	E	E	D	F	D	C
Approach Vol, veh/h		2697			2565			589			847	
Approach Delay, s/veh		50.6			99.6			61.3			74.3	
Approach LOS		D			F			E			E	

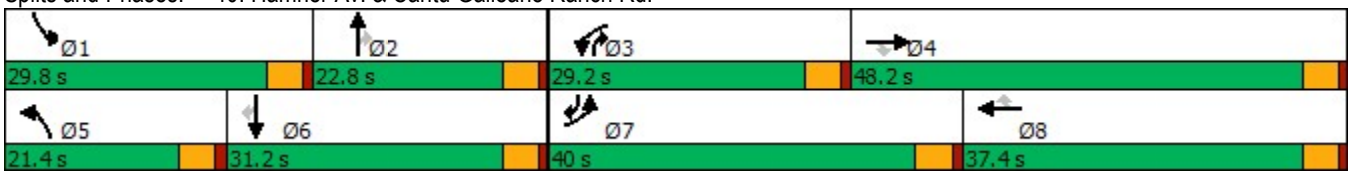
Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	22.0	21.8	16.6	58.4	12.6	31.2	35.0	40.0
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	17.5	18.5	12.1	53.9	10.1	25.9	30.5	35.5
Max Q Clear Time (g_c+I1), s	19.5	16.7	13.5	50.0	8.5	15.8	32.5	37.5
Green Ext Time (p_c), s	0.0	0.5	0.0	3.5	0.0	2.3	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	73.3
HCM 6th LOS	E

Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (vph)	921	1725	408	451	1838	354	376	439	356	641	836	778
Future Volume (vph)	921	1725	408	451	1838	354	376	439	356	641	836	778
Turn Type	Prot	NA	Perm	Prot	NA	Perm	Prot	NA	pm+ov	Prot	NA	pm+ov
Protected Phases	7	4		3	8		5	2	3	1	6	7
Permitted Phases			4			8			2			6
Detector Phase	7	4	4	3	8	8	5	2	3	1	6	7
Switch Phase												
Minimum Initial (s)	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
Minimum Split (s)	9.5	22.5	22.5	9.5	22.5	22.5	9.5	22.5	9.5	9.5	22.5	9.5
Total Split (s)	40.0	48.2	48.2	29.2	37.4	37.4	21.4	22.8	29.2	29.8	31.2	40.0
Total Split (%)	30.8%	37.1%	37.1%	22.5%	28.8%	28.8%	16.5%	17.5%	22.5%	22.9%	24.0%	30.8%
Yellow Time (s)	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
All-Red Time (s)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lead	Lag	Lead	Lead	Lag	Lead
Lead-Lag Optimize?	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Recall Mode	None	None	None	None	None	None	None	Min	None	None	Min	None
Act Effct Green (s)	35.5	46.7	46.7	21.7	32.9	32.9	16.5	16.6	42.9	25.3	25.5	65.5
Actuated g/C Ratio	0.28	0.36	0.36	0.17	0.26	0.26	0.13	0.13	0.33	0.20	0.20	0.51
v/c Ratio	0.97	0.66	0.55	0.78	0.99	0.58	0.86	0.63	0.60	0.95	0.78	0.97
Control Delay	68.4	36.2	12.6	60.4	66.5	11.7	73.1	56.9	26.8	74.6	54.3	52.9
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	68.4	36.2	12.6	60.4	66.5	11.7	73.1	56.9	26.8	74.6	54.3	52.9
LOS	E	D	B	E	E	B	E	E	C	E	D	D
Approach Delay		42.7			58.1			53.0			59.6	
Approach LOS		D			E			D			E	

Intersection Summary	
Cycle Length: 130	
Actuated Cycle Length: 128.4	
Natural Cycle: 120	
Control Type: Actuated-Uncoordinated	
Maximum v/c Ratio: 0.99	
Intersection Signal Delay: 52.7	Intersection LOS: D
Intersection Capacity Utilization 96.8%	ICU Level of Service F
Analysis Period (min) 15	

Splits and Phases: 40: Hamner Av. & Cantu Galleano Ranch Rd.



Movement	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
Lane Configurations												
Traffic Volume (veh/h)	921	1725	408	451	1838	354	376	439	356	641	836	778
Future Volume (veh/h)	921	1725	408	451	1838	354	376	439	356	641	836	778
Initial Q (Qb), veh	0	0	0	0	0	0	0	0	0	0	0	0
Ped-Bike Adj(A_pbT)	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Parking Bus, Adj	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Work Zone On Approach		No			No			No			No	
Adj Sat Flow, veh/h/ln	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Adj Flow Rate, veh/h	969	1816	229	475	1935	194	396	462	196	675	880	419
Peak Hour Factor	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95	0.95
Percent Heavy Veh, %	0	0	0	0	0	0	0	0	0	0	0	0
Cap, veh/h	996	2892	613	541	1938	411	447	766	457	710	1179	776
Arrive On Green	0.41	0.57	0.57	0.22	0.38	0.38	0.19	0.20	0.20	0.29	0.31	0.31
Sat Flow, veh/h	3619	7600	1610	3619	7600	1610	3619	5700	1610	3619	5700	1610
Grp Volume(v), veh/h	969	1816	229	475	1935	194	396	462	196	675	880	419
Grp Sat Flow(s),veh/h/ln	1810	1900	1610	1810	1900	1610	1810	1900	1610	1810	1900	1610
Q Serve(g_s), s	33.9	20.6	10.0	16.4	32.8	11.7	13.8	9.5	12.7	23.6	17.9	24.8
Cycle Q Clear(g_c), s	33.9	20.6	10.0	16.4	32.8	11.7	13.8	9.5	12.7	23.6	17.9	24.8
Prop In Lane	1.00		1.00	1.00		1.00	1.00		1.00	1.00		1.00
Lane Grp Cap(c), veh/h	996	2892	613	541	1938	411	447	766	457	710	1179	776
V/C Ratio(X)	0.97	0.63	0.37	0.88	1.00	0.47	0.89	0.60	0.43	0.95	0.75	0.54
Avail Cap(c_a), veh/h	996	2892	613	693	1938	411	474	808	469	710	1179	776
HCM Platoon Ratio	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50	1.50
Upstream Filter(I)	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
Uniform Delay (d), s/veh	37.4	21.6	19.3	48.9	39.8	33.3	51.7	48.4	34.7	44.9	41.5	20.6
Incr Delay (d2), s/veh	22.2	0.4	0.4	10.2	20.1	0.8	17.3	1.2	0.6	22.6	2.6	0.8
Initial Q Delay(d3),s/veh	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
%ile BackOfQ(50%),veh/ln	15.2	6.9	3.3	7.3	15.3	4.1	6.7	4.3	4.5	11.4	7.5	7.1
Unsig. Movement Delay, s/veh												
LnGrp Delay(d),s/veh	59.6	22.0	19.7	59.2	59.9	34.2	69.0	49.5	35.3	67.5	44.1	21.4
LnGrp LOS	E	C	B	E	E	C	E	D	D	E	D	C
Approach Vol, veh/h		3014			2604			1054			1974	
Approach Delay, s/veh		33.9			57.9			54.2			47.3	
Approach LOS		C			E			D			D	

Timer - Assigned Phs	1	2	3	4	5	6	7	8
Phs Duration (G+Y+Rc), s	29.8	21.8	23.8	53.6	20.4	31.2	40.0	37.4
Change Period (Y+Rc), s	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
Max Green Setting (Gmax), s	25.3	18.3	24.7	43.7	16.9	26.7	35.5	32.9
Max Q Clear Time (g_c+I1), s	25.6	14.7	18.4	22.6	15.8	26.8	35.9	34.8
Green Ext Time (p_c), s	0.0	1.2	0.9	13.2	0.2	0.0	0.0	0.0

Intersection Summary	
HCM 6th Ctrl Delay	46.7
HCM 6th LOS	D

APPENDIX 7.9: HORIZON YEAR (2050) WITHOUT PROJECT CONDITIONS OFF-RAMP QUEUING ANALYSIS WORKSHEETS WITH IMPROVEMENTS

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Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	500	595	584	1455	945	466	1564
v/c Ratio	0.83	1.07	1.02	1.00	0.90	1.07	0.77
Control Delay	49.5	91.5	76.9	58.9	22.2	99.2	20.4
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Total Delay	49.5	91.5	76.9	58.9	22.2	99.2	22.2
Queue Length 50th (ft)	371	~525	~454	583	226	~212	325
Queue Length 95th (ft)	#561	#775	#707	#754	#592	m#237	m381
Internal Link Dist (ft)		1308		1081			410
Turn Bay Length (ft)	900						
Base Capacity (vph)	600	558	575	1459	1045	437	2030
Starvation Cap Reductn	0	0	0	0	0	0	291
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.83	1.07	1.02	1.00	0.90	1.07	0.90

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	314	331	326	1829	779	426	1974
v/c Ratio	0.71	0.83	0.75	1.14	0.84	0.70	0.83
Control Delay	47.3	55.5	43.0	102.9	22.7	49.9	18.7
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	3.6
Total Delay	47.3	55.5	43.0	102.9	22.7	49.9	22.3
Queue Length 50th (ft)	224	243	197	~860	267	161	569
Queue Length 95th (ft)	337	#406	317	#1065	#575	208	683
Internal Link Dist (ft)		1308		1081			410
Turn Bay Length (ft)	900						
Base Capacity (vph)	528	472	510	1598	930	1038	2661
Starvation Cap Reductn	0	0	0	0	0	0	584
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.59	0.70	0.64	1.14	0.84	0.41	0.95

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

APPENDIX 7.10: HORIZON YEAR (2050) WITH PROJECT CONDITIONS OFF-RAMP QUEUING ANALYSIS WORKSHEETS WITH IMPROVEMENTS

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Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	500	616	607	1507	975	466	1609
v/c Ratio	0.83	1.10	1.06	1.03	0.93	1.07	0.79
Control Delay	49.5	103.7	87.8	68.0	26.7	98.2	20.5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	1.7
Total Delay	49.5	103.7	87.8	68.0	26.7	98.2	22.2
Queue Length 50th (ft)	371	~562	~509	~659	276	~212	340
Queue Length 95th (ft)	#561	#815	#749	#798	#644	m#235	m383
Internal Link Dist (ft)		1308		1081			410
Turn Bay Length (ft)	900						
Base Capacity (vph)	600	558	575	1459	1044	437	2030
Starvation Cap Reductn	0	0	0	0	0	0	250
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.83	1.10	1.06	1.03	0.93	1.07	0.90

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

m Volume for 95th percentile queue is metered by upstream signal.



Lane Group	EBL	EBT	EBR	NBT	NBR	SBL	SBT
Lane Group Flow (vph)	314	353	351	1881	810	426	2010
v/c Ratio	0.70	0.87	0.79	1.18	0.87	0.71	0.85
Control Delay	46.9	61.0	46.7	117.3	25.6	51.1	20.0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	9.5
Total Delay	46.9	61.0	46.7	117.3	25.6	51.1	29.4
Queue Length 50th (ft)	228	273	225	~907	301	163	591
Queue Length 95th (ft)	337	#452	#370	#1109	#623	208	712
Internal Link Dist (ft)		1308		1081			410
Turn Bay Length (ft)	900						
Base Capacity (vph)	514	459	499	1596	932	1012	2594
Starvation Cap Reductn	0	0	0	0	0	0	577
Spillback Cap Reductn	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0
Reduced v/c Ratio	0.61	0.77	0.70	1.18	0.87	0.42	1.00

Intersection Summary

~ Volume exceeds capacity, queue is theoretically infinite.
Queue shown is maximum after two cycles.

95th percentile volume exceeds capacity, queue may be longer.
Queue shown is maximum after two cycles.

APPENDIX I2

VEHICLE MILES TRAVELED ANALYSIS

MEMORANDUM

URBAN | CROSSROADS

DATE: December 28, 2022
TO: Kevin Thomas, Kimley-Horn and Associates, Inc.
FROM: Alex So, Urban Crossroads
JOB NO: 15045-01 VMT

EUCLID MIXED USE SPECIFIC PLAN VEHICLE MILES TRAVELED (VMT) ANALYSIS

Urban Crossroads, Inc. is pleased to provide the following Vehicle Miles Traveled (VMT) Analysis for the Euclid Mixed Use Specific Plan (**Project**), which is located east of Euclid Avenue (SR-83), south of Schaefer Avenue, north of Ontario Ranch Road/Edison Avenue and west of Sultana Avenue in the City of Ontario.

PROJECT OVERVIEW

The underlying land uses are consistent with the City's recently adopted The Ontario Plan (**TOP**) 2050. It is our understanding that the Project is to consist of the following uses as shown in Attachment A:

1. Planning Area 1 (Business Park): 135,841 square feet of business park uses fronting Euclid Avenue (SR-83) and 399,135 square feet of warehousing use
2. Planning Area 2 (Business Park): 55,537 square feet of business park uses fronting Euclid Avenue (SR-83) and 450,784 square feet of warehousing use
3. Planning Area 3A (Business Park & Commercial Retail): 122,898 square feet of warehousing use and 30,225 square feet of commercial retail use (10,000 square feet of fast-food restaurant use without drive-through window, 10,000 square feet of fast-food restaurant with drive-through window, and 10,225 square feet of retail space)
4. Planning Area 3B (Multifamily Residential): 466 multifamily residential dwelling units
5. Planning Area 4 (Truck/Trailer Parking): 7.4 acres
6. Planning area 5 (Truck/Trailer Parking): 4.8 acres

BACKGROUND

Changes to California Environmental Quality Act (CEQA) Guidelines were adopted in December 2018, which require all lead agencies to adopt VMT as a replacement for automobile delay-based level of service (LOS) as the measure for identifying transportation impacts for land use projects. This statewide mandate went into

effect July 1, 2020, consistent with Senate Bill 743 (SB 743). To comply with SB 743, the City of Ontario developed their own VMT methodologies and thresholds (Resolution No. 2020-071), which were adopted by City Council in June 2020 (**City Guidelines**) (1). This VMT analysis has been prepared based on the adopted City Guidelines.

PROJECT LEVEL SCREENING

City Guidelines state that a project may be determined to have a less than significant VMT impact and screened out of requiring a project level VMT analysis if it meets at least one of the City's VMT screening criteria. To aid in the VMT screening process and consistent with screening thresholds identified in the City Guidelines, the San Bernardino County Transportation Authority (SBCTA) VMT Screening Tool (**Screening Tool**) was used. The City's adopted VMT screening criteria are described in Table 1 along with a determination of each screening criteria's applicability to the Project.

TABLE 1: SCREENING FOR LAND USE POJECTS EXEMPT FROM VMT ANALYSIS

Screening Criteria	Description	Result
Transit Priority Area (TPA)	High quality transit provides a viable option for many to replace automobile trips with transit trips resulting in an overall reduction in VMT.	Does not meet.
Low VMT Area	Projects located in a low VMT generating model traffic analysis zone (TAZs) are presumed to have a less than significant impact on VMT. These TAZs generate total daily VMT/SP that is 15% less than the baseline level for the County.	Does not meet.
Low Trip Generating Uses	Projects below 110 Average Daily Trips (ADT) are presumed to have less than significant impact on VMT.	Does not meet.
Project Type	Local-Serving Retail under 50,000 square feet, Local-Serving Essential Services such as parks and day care centers, affordable or supportive housing, senior housing, redevelopment projects that would generate fewer VMT and non-destination small hotels are presumed to have a less than significant VMT impact.	Meets for retail and truck/trailer parking components.

The retail component of the Project meets the Project Type screening criteria for the Local-Serving Retail as the uses in Planning Area 3a were consistent with the City Guidelines and no single structure was over 50,000 square feet. The truck/trailer component of the Project is anticipated to provide overflow or excess trailer parking for nearby warehouses and distribution centers. It is reasonable to assume that the future tenant will select a location, at least in part, as to how it effects their transportation costs. Businesses who have shipping as a significant part of their operations are sensitive to transportation costs and by extension their relative proximity to customers and suppliers. Therefore, the proposed truck storage lot is anticipated to serve nearby warehouses and distribution facilities that would be seeking to locate overflow truck/trailer storage as close as possible to the primary warehouse or distribution facility. As a result, the trips are expected to be local serving.

The remaining components of the Project did not meet the screening criteria and therefore a VMT analysis was conducted for the business park, warehouse and residential.

VMT ANALYSIS

MODELING AND METHODOLOGY

The City Guidelines identify the San Bernardino Transportation Analysis Model (**SBTAM**) as the appropriate tool for conducting VMT analysis for land use projects in the City of Ontario, as it considers interaction between different land uses based on socio-economic data, such as population, households, and employment. Consistent with The City of Ontario Plan (TOP) The City has recently adopted an updated version of SBTAM also referred to as The Ontario Plan (**TOP**) model. This model contains updated roadway network and socio-economic data within the city and includes a base year of 2019 and a General Plan Buildout of 2050. Outside of the City of Ontario, the model assumes datasets consistent with the 2016 Southern California Association of Governments (SCAG) Regional Transportation Plan and Sustainable Communities Strategy (RTP/SCS). Urban Crossroads has obtained the newly adopted TOP model from the City of Ontario.

VMT METRIC AND SIGNIFICANCE THRESHOLD

City Guidelines identify the efficiency based metric VMT per service population (i.e., population and employees) as the measure of potential impact within the City of Ontario. VMT per service population is an efficiency metric that allows a project's VMT to be compared to the remainder of the City. Projects found to increase the average VMT per service population within the City may be deemed to have a significant impact. More specifically, City Guidelines identify the following impact threshold for project level VMT analyses:

- A significant impact would occur if the project VMT per service population exceeds the Citywide average VMP per service population under General Plan Buildout Conditions.

The City of Ontario's average VMT per service population under General Plan Buildout conditions has been calculated using the TOP General Plan Buildout (2050) model. Table 2 provides the City of Ontario's Citywide average VMT per service population for General Plan Buildout (2050) conditions.

TABLE 2: CITYWIDE VMT PER SERVICE POPULATION

Ontario	TOP 2050
Service Population	706,494
VMT	21,689,573
VMT per service population	30.70

As shown in Table 2, the City of Ontario's VMT per service population for General Plan Buildout (2050) conditions has been calculated as **30.70 VMT per service population**.

PROJECT LAND USE CONVERSION

In order to estimate project generated VMT, standard land use information such as dwelling units and building square footage must first be converted into a TOP Model compatible dataset. The TOP Model utilizes socio-economic data (**SED**) (e.g., population, households and employment) instead of land use information to estimate vehicle trips. The Project's land use information has

been converted to SED and input into the Project's traffic analysis zone (TAZ) 53652601 to generate the Project's VMT. Table 3 summarizes the SED inputs used to reflect the Project.

TABLE 3: POPULATION AND EMPLOYMENT ESTIMATES

	Project
Households	466
Population	1,631
Employees	1,333[1]

VMT CALCULATION

Origin/Destination VMT Method

The Origin/Destination (**OD**) method for calculating VMT sums all weekday VMT generated by trips with at least one trip end in the study area (i.e., TAZ or group of TAZ's). The OD method accounts for all trips (i.e., both passenger car and truck) and trip purposes (i.e., total VMT) and therefore provides a more complete estimate of VMT. Total VMT is divided by the Project's service population to derive the efficiency based metric VMT per service population, which is then compared to the Citywide buildout VMT per service population for purposes of identifying a potential impact.

Table 4 presents Project generated total OD VMT and the resulting total OD VMT per service population for both Baseline (2022) and General Plan Buildout (2050) conditions. As shown in Table 4, the Project would generate total OD VMT per service population below the City's adopted impact threshold for both Baseline (2022) and General Plan Buildout Year (2050) conditions.

TABLE 4: PROJECT GENERATED TOTAL OD VMT PER SERVICE POPULATION

	Baseline (2022)	General Plan Buildout Year (2050)
Population	1,631	1,631
Employment	1,333	1,333
Service Population	2,964	2,964
Total OD VMT	90,055	84,988
OD VMT per service population	30.22	28.68
City Threshold	30.70	30.70
Percent Below Threshold	-1.56%	-6.58%
Potentially Significant?	No	No

Boundary VMT Method

City Guidelines also acknowledge that a VMT analysis should contain an evaluation of a project's cumulative effect on VMT, which can be performed using the boundary method of calculating VMT. The boundary method is the sum of all weekday VMT on the roadway network within a

[1] SCAG Employment Density Study; Table II-B

designated boundary (i.e., City boundary). The boundary method estimates VMT by multiplying vehicle trips on each roadway segment within the boundary by that segment's length. This approach consists of all trips, including those trips that do not begin or end in the designated boundary. Consistent with City Guidelines, the City of Ontario was used as the boundary for this assessment. In addition, as the Project is located near the southeastern edge of the City of Ontario, an additional assessment of a 10-mile boundary area surrounding the Project site has also been conducted to ensure trips associated with the Project are not omitted.

Table 5 presents total VMT calculated using the boundary method for No Project and With Project General Plan Buildout (2050) conditions. Boundary VMT per service population is found to remain unchanged under the No Project scenario as compared to the With Project scenario for City of Ontario boundary and the With Project scenario is found to decrease as compared to the No Project scenario using the 10-mile boundary.

TABLE 5: GENERAL PLAN BUILDOUT (2050) BOUNDARY VMT RESULTS

	City Boundary		10-Mile Boundary	
Scenario	No Project	With Project	No Project	With Project
Service Population	706,494	706,931	1,985,501	1,985,938
Boundary VMT	9,602,250	9,605,588	34,082,666	33,767,387
VMT per SP	13.59	13.59	17.17	17.00
Change in VMT	0.00		-0.16	
Potentially Significant?	No		No	

SUMMARY

Based on the results of this analysis the following findings are made:

- The Project was evaluated against screening criteria as outlined in the City Guidelines. The Project's retail and truck/trailer lot was found to meet the Project Type screening criteria.
- However, the remaining components of the Project was not found to meet any available screening criteria, and a VMT analysis was performed.
- The Project's VMT analysis found the Project to be below the City's VMT per service population threshold by 1.56% for baseline (2022) conditions and 6.58% for buildout (2050) conditions.
- In addition, the Project's cumulative effect on VMT was found to not increase the City's VMT per service population with the inclusion of the Project using the City's boundary and 10-mile boundary.
- The Project is found to have a less than significant impact.

If you have any questions, please contact me directly at aso@urbanxroads.com.

REFERENCES

1. **City of Ontario.** *SB 743 VMT Thresholds.* City of Ontario : s.n., June 2020.
2. **ICF with contributions from Fehr & Peers, Sacramento Metropolitan Air Quality Management District, and STI.** *Handbook for Analyzing Greenhouse Gas Emission Reductions, Assessing Climate Vulnerabilities, and Advancing Health and Equity.* August 2021.

ATTACHMENT A
PRELIMINARY SITE PLAN


Schaefer Ave
Schaefer Ave
Driveway 5
Driveway 6
Driveway 7
SUBWAY
Carl's Jr
Sultana Ave
Driveway 11
Driveway 12
Driveway 13
Driveway 14
Driveway 15
Driveway 16
Driveway 17
Driveway 1
Driveway 2
Driveway 3
Driveway 4
PA 1
(2.5 AC)
PA 4
(7.4 AC)
PA 2
(16.2 AC)
PA 2
(7.2 AC)
PA 5
(4.8 AC)
PA 3A
(9.8 AC)
PA 3B
(8.0 AC)
PA 3A
(4.4 AC)
Edison Ave
Edison Ave
Driveway 8
Driveway 9
Driveway 10
Driveway
Full Access
Right-In/Right-Out
Future Development
N

APPENDIX J

WATER SUPPLY ASSESSMENT

ALBERT A. WEBB ASSOCIATES



WATER SUPPLY ASSESSMENT AND WRITTEN VERIFICATION OF SUFFICIENT WATER SUPPLY

EUCLID MIXED USE SPECIFIC PLAN (FILE NO. PSP22-001)
CITY OF ONTARIO

Prepared for:

ONTARIO MUNICIPAL UTILITIES COMPANY

May 3, 2023

W.O. 2023-0044

www.webbassociates.com

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W.O.: 2023-0044

May 3, 2022

Christopher Quach, P.E.
Senior Associate Engineer
ONTARIO MUNICIPAL UTILITIES COMPANY
1425 S. Bon View Avenue
Ontario, CA 91761

Re: Water Supply Assessment and Written Verification of Sufficient Water Supply for Euclid Mixed Use Specific Plan

Dear Mr. Quach,

Pursuant to our agreement and notice to proceed received on February 28, 2023, transmitted herewith is the Water Supply Assessment (WSA) and Written Verification (WV) for the subject project prepared pursuant to Senate Bill 610 and Senate Bill 221.

Sincerely,

ALBERT A. WEBB ASSOCIATES

Autumn DeWoody
Senior Environmental Analyst

Sam I. Gershon, RCE
Senior Vice President



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A City of Ontario 2020 Urban Water Management Plan (UWMP)

B 2020 City of Ontario Water Master Plan Update

C 2020 City of Ontario Recycled Water Master Plan Update

D The Metropolitan Water District of Southern California 2020 UWMP

E Inland Empire Utilities Agency (IEUA) 2020 UWMP

F Water Facilities Authority (WFA) 2020 UWMP

G Chino Basin Desalter Authority 2020 UWMP

H San Antonio Water Company 2020 UWMP

I IEUA Resolution No. 2014-12-1

J 1985 Installment Purchase Agreement Relating to WFA Water Treatment Plan by and between WFA and the City of Ontario

K WFA Ordinance No. 99-07-02

L 2003 Local Agency Agreement by and between IEUA and the City of Ontario

M Chino Basin 1978 Judgment and amendments thereto.

N City of Fontana 2008 Agreement Regarding Transfer of Right of First Purchase of Recharged Reclaimed Water

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SB 610 WATER SUPPLY ASSESSMENT

SECTION 1 - INTRODUCTION

Senate Bill 610 (SB 610) was signed into California state law with an effective date of January 1, 2002. SB 610 amended existing legal requirements for confirmation of water supply sufficiency as a condition of approval for development projects. The confirmation of water supply sufficiency is achieved through an assessment of the water supplier's existing and future water sources, and existing and projected water demand in relation to a "project" as defined by California Water Code (CWC) section 10912, resulting in the production of a project-specific Water Supply Assessment ("WSA" or "Assessment"). Additional analysis is required in the WSA if any portion of the water supply includes groundwater. The WSA is prepared and adopted by the water supplier and included in the California Environmental Quality Act (CEQA) analysis for the project. The CEQA Lead Agency must then independently determine, based on the entire record, whether water supplies will be sufficient to satisfy the demands of the project, in addition to existing and planned future uses (CWC section 10911). The WSA is not a commitment by the water supplier to serve the proposed project.

Law

CWC section 10910:

> *(a) Any city or county that determines that a project, as defined in Section 10912, is subject to the California Environmental Quality Act (Division 13 (commencing with Section 21000) of the Public Resources Code) under Section 21080 of the Public Resources Code shall comply with this part.*

CWC section 10912:

For the purpose of this part, the following terms have the following meanings:

> *(a) "Project" means any of the following:*

(1) A proposed residential development of more than 500 dwelling units.

(2) A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.

(3) A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.

(4) A proposed hotel or motel, or both, having more than 500 rooms.

(5) A proposed industrial, manufacturing, or processing plant, or industrial park planned to house more than 1,000 persons, occupying more than 40 acres of land, or having more than 650,000 square feet of floor area.

(6) A mixed-use project that includes one or more of the projects specified in this subdivision.

(7) A project that would demand an amount of water equivalent to, or greater than, the amount of water required by a 500-dwelling unit project.

CWC section 10914:

(a) Nothing in this part is intended to create a right or entitlement to water service or any specific level of water service.

(b) Nothing in this part is intended to either impose, expand, or limit any duty concerning the obligation of a public water system to provide certain service to its existing customers or to any future potential customers.

(c) Nothing in this part is intended to modify or otherwise change existing law with respect to projects which are not subject to this part.

(d) This part applies only to a project for which a notice of preparation is submitted on or after January 1, 1996.

1.1 Purpose

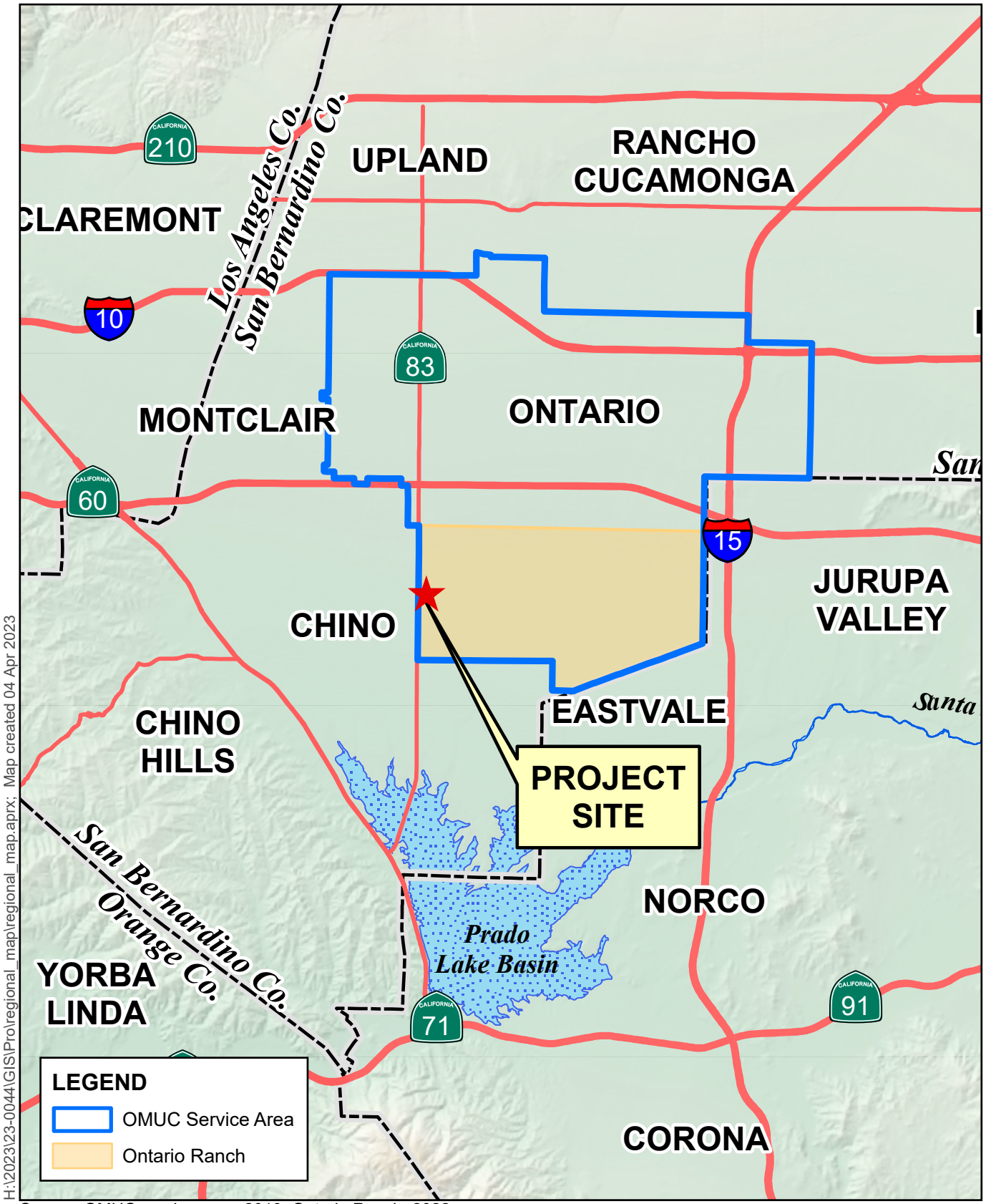
The Ontario Municipal Utilities Company (OMUC) is a department of the City of Ontario (City) and the City water supplier (see **Figure 1 – Regional Map**). OMUC commissioned this Assessment from Albert A. Webb Associates (WEBB) on February 28, 2023, to answer the following key question pursuant to SB 610: whether the projected supply for the next 20 years, based on normal, single dry and multiple dry years, will meet the demand projected for the project plus existing and planned future uses, including agricultural and manufacturing uses.

1.2 Proposed Project

The City is preparing an Environmental Impact Report (EIR) pursuant to CEQA for the proposed *Euclid Mixed Use Specific Plan* ("Project") to redevelop the site from agricultural uses (i.e., livestock, dairy farming, and commercial nursery) to accommodate up to 290,110 square feet (sf) of commercial retail/office uses, up to 466 residential dwelling units (du), and 1,386,776 sf of business park uses on 84.1 acres of land (see **Figure 2 – Aerial View** and **Figure 3 - Proposed Land Use Plan**). The Project is located at the northeast corner of Euclid Avenue and Ontario Ranch Road (Edison Avenue) within Ontario Ranch (Figure 1).

This Project is considered to be "subject to CEQA" pursuant to CWC section 10910. The Project is considered a "project" under SB 610 pursuant to the following CWC section 10912 definitions:

- *A proposed shopping center or business establishment employing more than 1,000 persons or having more than 500,000 square feet of floor space.*
- *A proposed commercial office building employing more than 1,000 persons or having more than 250,000 square feet of floor space.*
- *A mixed-use project that includes one or more of the projects specified in this subdivision.*

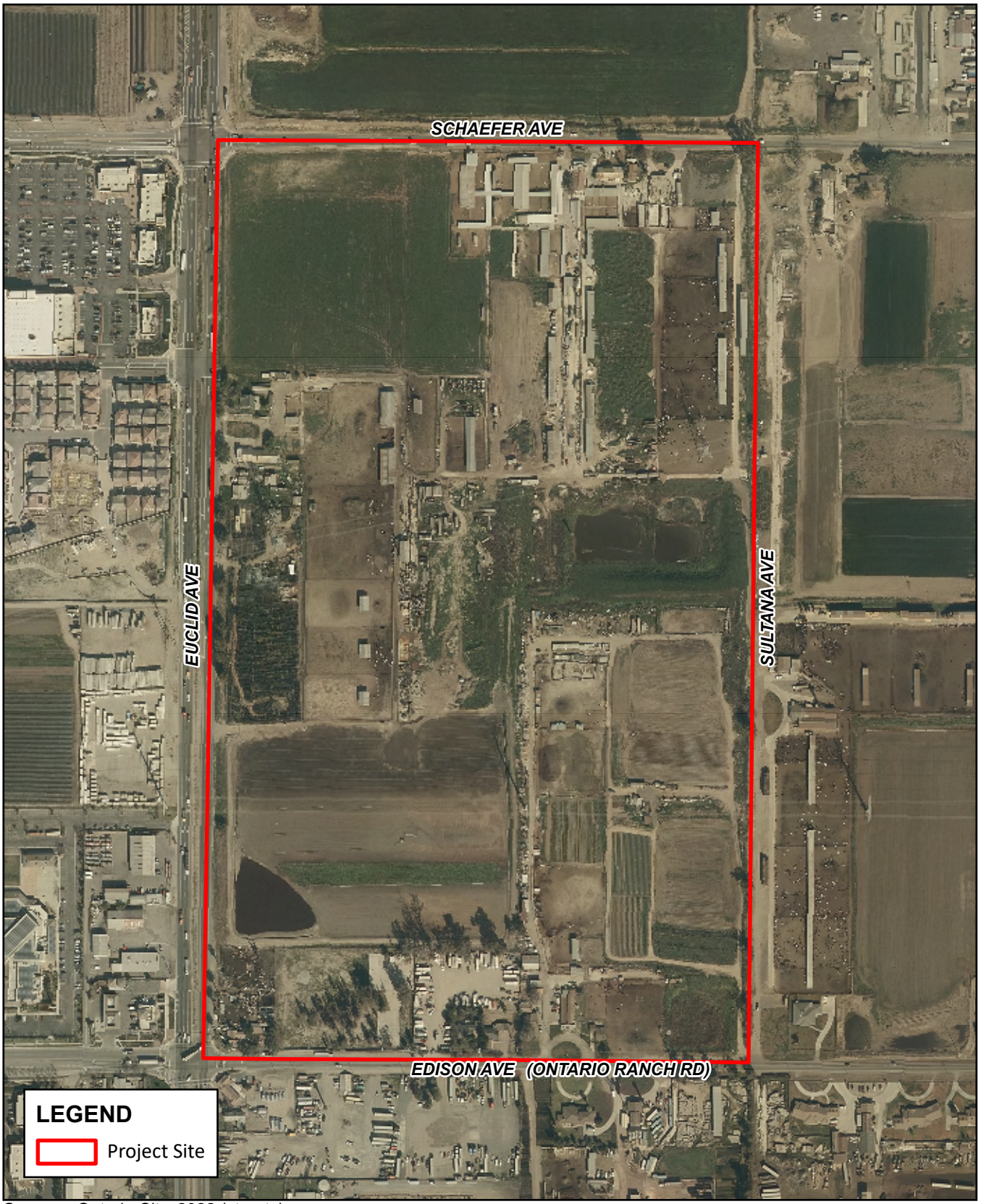


Source: OMUC service area, 2019; Ontario Ranch, 2022; Riverside County GIS, 2020.

Figure 1 - Regional Map

Euclid Mixed Use Specific Plan Water Supply Assessment

ALBERT A. WEBB ASSOCIATES



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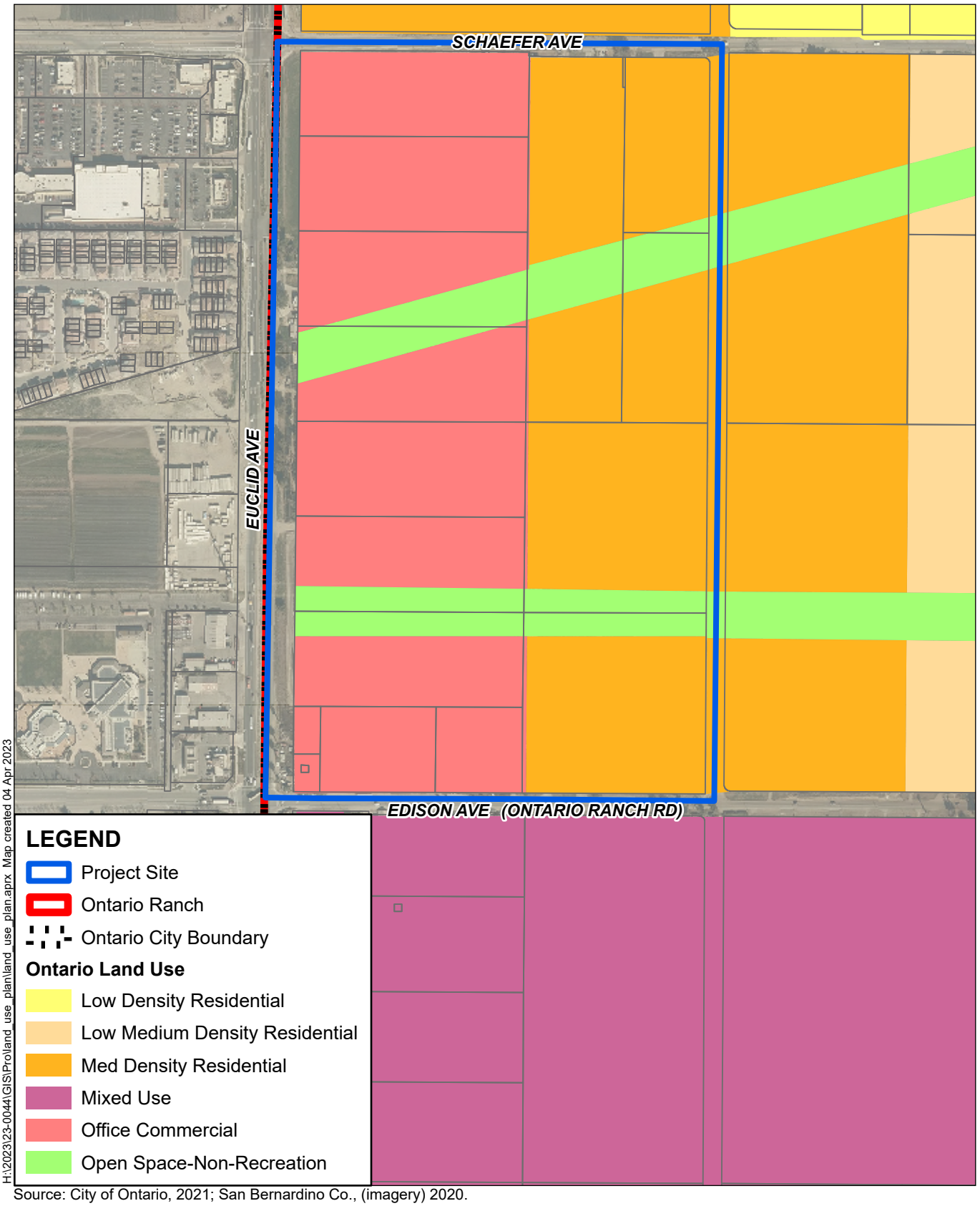
Sources: Ontario City, 2022 (streets);
San Bernardino Co. GIS, 2020 (imagery).

0 250 500 750 Feet

Figure 2 - Aerial Map

Euclid Mixed Use Specific Plan Water Supply Assessment

ALBERT A. WEBB ASSOCIATES



Source: City of Ontario, 2021; San Bernardino Co., (imagery) 2020.

Figure 3 - Land Use Plan Used for 2020 UWMP

Euclid Mixed Use Specific Plan Water Supply Assessment

ALBERT A. WEBB ASSOCIATES

OMUC will provide potable and recycled water service to the Project. City Ordinance No. 2689 requires all new development to connect to, and use recycled water for all approved uses, including but not limited to landscape irrigation (codified in City Municipal Code Sections 6-8.7 to 6-8.279).

1.3 Prior Water Supply Assessment

A WSA and Written Verification of Sufficient Water Supply (WV) dated October 27, 2004, were prepared for the 8,200-acre Ontario Ranch by WEBB on behalf of the City (Figure 1). Because the Project proposes different land uses then those analyzed in the 2004 WSA/WV, and the City has updated its water use and water supply information since 2004, a new WSA is prepared herein consistent with CWC section 10910(3).

Law

CWC Section 10910:

> *(h) Notwithstanding any other provision of this part, if a project has been the subject of a water supply assessment that complies with the requirements of this part, no additional water supply assessment shall be required for subsequent projects that were part of a larger project for which a water supply assessment was completed and that has complied with the requirements of this part and for which the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has concluded that its water supplies are sufficient to meet the projected water demand associated with the proposed project, in addition to the existing and planned future uses, including, but not limited to, agricultural and industrial uses, unless one or more of the following changes occurs:*
>
> > *(1) Changes in the project that result in a substantial increase in water demand for the project.*
> >
> > *(2) Changes in the circumstances or conditions substantially affecting the ability of the public water system, or the city or county if either is required to comply*

with this part pursuant to subdivision (b), to provide a sufficient supply of water for the project.

(3) Significant new information becomes available that was not known and could not have been known at the time when the assessment was prepared.

1.4 Project Relation to the Urban Water Management Plan

On June 15, 2021, the City adopted its *2020 Urban Water Management Plan* (UWMP) by Resolution No. 2021-059, a copy of which is located in Appendix A.[1] The City recently prepared updates to its *Water Master Plan* and *Recycled Water Master Plan* in June 2020, which include the current unit water demand factors for potable and recycled water as well as ultimate buildout water demand projections (AKM and Stantec, respectively) .The projected water demands of the 2020 UWMP are based on the City's 2020 master plan updates (pertinent excerpts of the master plans are located in Appendix E and K of the 2020 UWMP). The Specific Plan Land Use Plan that was used in the master plan updates and 2020 UWMP is shown in **Figure 4 – Land Use Plan Used for 2020 UWMP Projections.**

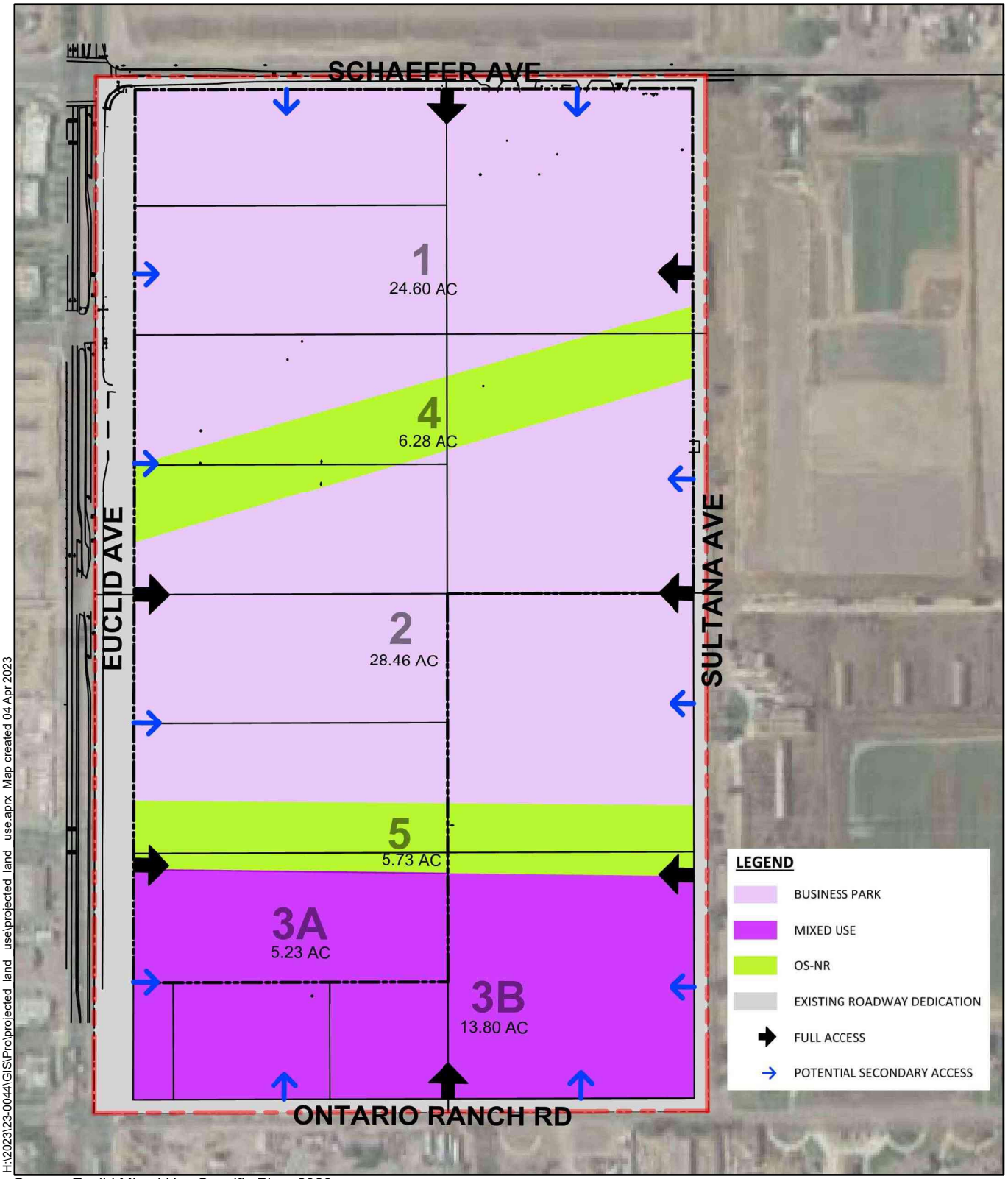
This WSA will rely on the 2020 UWMP and updated information from OMUC for 2021 and 2022 data has been added where possible. The assumptions on ultimate (buildout) water demand in the 2020 UWMP for Ontario Ranch were derived from land use-based water demand factors according to the City's 2020 Water Master Plan (AKM).

As stated in the 2020 Water Master Plan, "For future developments, water unit demand factors were used to estimate future water use. Potable water unit demand factors are generally based on the factors that were developed as a part of a study completed in May 2016 entitled "Ultimate Citywide Water Demand Estimate" (AKM, p. 4-9). Further, "The residential unit demand factors were first developed in terms of gpd/person. Then the maximum densities (people/du and du/ac) were applied to determine the factors in

[1] The City Council also passed on June 15, 2021, Resolution No. 2021-061 to amend the 2015 UWMP to reflect consistency with the Delta Plan, and Resolution No. 2021-060 to adopt the 2020 Water Shortage Contingency Plan.

other units. The resulting unit factors in terms of gpd/du and gpd/ac represent the maximum expected demand factors" (*ibid*). Lastly, the unit water demand factors used for the 2020 UWMP, 2020 Water Master Plan, and herein use recent actual projections of residential densities that are more than those included in the TOP (2010 General Plan) at the time the plans were written (*ibid*).

According to the Water Code, if a project's water demand has been accounted for in the water supplier's most recent UWMP, then the WSA may use the UWMP as the source of the information required in the WSA. The determination as to whether the Project's water demand has been accounted for in the most recent UWMP is located in Section 2 – Water Demand Analysis.



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Source: Euclid Mixed Use Specific Plan, 2023.

Figure 4 - Proposed Land Use Plan

Euclid Mixed Use Specific Plan Water Supply Assessment

NTS

ALBERT A. WEBB ASSOCIATES

Relation of Water Supplier to other Urban Water Management Plans

The City is a member agency of several water suppliers: Inland Empire Utilities Agency (IEUA), Water Facilities Authority (WFA), Chino Basin Desalter Authority (CDA), and San Antonio Water Company (SAWCo). IEUA obtains water from The Metropolitan Water District of Southern California (MWD). In addition, WFA obtains MWD water through IEUA. Each of these water suppliers has adopted individual 2020 UWMPs (copies of said plans are provided in Appendix D through Appendix H). Further, each of these agencies documented coordination with the City for preparation of said UWMP's and included the City's projected water demands into their individual UWMPs (MWD (p. 1-9), IEUA (p. 2-7), SAWCO (p. 4-6), WFA (p. 4-10), and CDA (p. 4-8)).

Law

CWC Section 10910:

> *(c) (1) The city or county, at the time it makes the determination required under Section 21080.1 of the Public Resources Code* [CEQA]*, shall request each public water system identified pursuant to subdivision (b) to determine whether the projected water demand associated with a proposed project was included as part of the most recently adopted urban water management plan adopted pursuant to Part 2.6 (commencing with Section 10610).*
>
> *(2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).*
>
> *(3) If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water supply assessment for the project shall include a discussion with regard to whether the*

public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.

(4) If the city or county is required to comply with this part pursuant to subdivision (b), the water supply assessment for the project shall include a discussion with regard to whether the total projected water supplies, determined to be available by the city or county for the project during normal, single dry, and multiple dry water years during a 20-year projection, will meet the projected water demand associated with the proposed project, in addition to existing and planned future uses, including agricultural and manufacturing uses.

1.5 Statewide and Local Water Conservation Efforts

The Ontario City Council adopted Ordinance No. 3027 on September 1, 2015, in response to the statewide Emergency Conservation Regulations mandated at that time by the State Water Resources Control Board. Ordinance 3027 updated the City's Water Conservation Plan that is codified in Chapter 8A, Title 6 of the City's Municipal Code ("Water Conservation Plan").

The City Council adopted its 2020 Water Shortage Contingency Plan in June 2021, which describes the methods to achieve and the implications of reducing water supplies to at least 50 percent (the plan is located in Chapter 8 of the 2020 UWMP). The City and OMUC implement various programs to reduce customer water consumption, including stringent use restrictions, actions, and penalties, as well as public outreach, education, and communication programs.

As of May 2023, the City entered into a Voluntary Conservation Stage where the public is encouraged to voluntarily conserve water by reducing the amount of potable water

used through various water saving strategies (WSCP, p. 8-8). This includes the following:

- Avoid hose-washing of sidewalks, driveways, and other parking/paved surfaces.
- Cars and other vehicles should be washed by hand, rinsed with a hose with a positive shutoff nozzle, at a commercial car wash, or with recycled water.
- Avoid using water to clean, fill or maintain levels in decorative fountains or ponds unless it has a water recycling system.
- Encourage restaurants to serve drinking water only to customers who request it.
- Promptly repair leaks from indoor and outdoor plumbing fixtures.
- Avoid watering lawns, and the like, between 6:00 AM and 6:00 PM.

Prevent water from running off from landscaped areas due to incorrectly directed or maintained sprinklers or excessive watering. With the signing of Assembly Bill (AB) 1668 and SB 606, the state has set an Indoor Residential Standard of 55 gallons per capita per day (GPCD) beginning January 1, 2025, which will decrease to 50 GPCD beginning January 1, 2030 (CWC section 10609.4(a)). The per person unit water use factors used by the City in the 2020 UWMP for water demand planning purposes are based on a minimum of 60 gpd/person for high density residential with recycled water, up to 172 gpd/person for rural residential (UWMP, p. 4-10).

1.6 Methodology of Analysis

This Assessment follows DWR's, *Guidebook for Implementation of Senate Bill 610 and Senate Bill 221 of 2001* (DWR 2003). Water Code citations contained herein are current as of January 1, 2023. Section 1 of this Assessment describes the existing and proposed land use designations of the Project site, the proposed Project's relation to a previous WSA and the water supplier's most recent UWMP. Section 2 provides the water demand analysis of the Project; Section 3 reviews the projected water supplies for the Project; Section 4 contains the required discussion of the water supplier's groundwater supplies; and Section 5 concludes the Assessment by answering the primary question at hand.

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SECTION 2 - WATER DEMAND ANALYSIS

The purpose of this section is to evaluate whether the proposed Project was considered in the water supplier's planning for water demand. This section will: 1) identify the various water use sectors, 2) identify water demand by those sectors for the next twenty years, and 3) compare the calculated water demand of the proposed Project to the water demand assumed in the most recent UWMP for the same property.

Law

CWC Section 10910:

> *(c) (2) If the projected water demand associated with the proposed project was accounted for in the most recently adopted urban water management plan, the public water system may incorporate the requested information from the urban water management plan in preparing the elements of the assessment required to comply with subdivisions (d), (e), (f), and (g).*
>
> *(3) If the projected water demand associated with the proposed project was not accounted for in the most recently adopted urban water management plan, or the public water system has no urban water management plan, the water supply assessment for the project shall include a discussion with regard to whether the public water system's total projected water supplies available during normal, single dry, and multiple dry water years during a 20-year projection will meet the projected water demand associated with the proposed project, in addition to the public water system's existing and planned future uses, including agricultural and manufacturing uses.*

2.1 Citywide Demographic Factors

A variety of demographic factors may affect water use. The UWMP Act lists several demographic factors to be detailed in UWMP's including climate, current and projected

population, density, income, and the mix of customer types (CWC sections 10631(e)(1)-(2)). As suggested by DWR, these data are provided herein and are taken generally from City's 2020 UWMP (Appendix A).

Climate

The climate of the City including the Project site can be described as generally mild temperatures and virtually no days below freezing. Summers are dry with average maximum daily temperatures in the high 80s to low 90s. The average annual rainfall is roughly 10.68 inches. (UWMP, p. 3-5)

Population

The City is divided into two distinct areas: Old Model Colony (OMC) and Ontario Ranch, which is where the Project is located (Figure 1). The OMC mostly consists of residential, commercial, and industrial developments including the Ontario Airport. Ontario Ranch is currently in the process of a planned conversion from agriculture to residential, commercial, industrial, and public uses.

The OMUC water service area population as of 2020, including both OMC and Ontario Ranch, is estimated at 178,409 persons (UWMP, p. 3-6). Based on the City General Plan ("TOP 2010") and anticipated development patterns, population at citywide buildout in 2040 is estimated at 362,903 persons as shown in **Table 2-1**, which is an increase of more than 103 percent over 20 years. Most of the anticipated growth will occur through infill, densification in the OMC, and development in Ontario Ranch.

Table 2-1 OMUC Service Area Population Estimates, 2010-2040

Population Served[a]	2010	2015	2020	2025	2030	2035	2040[b]
	163,924	168,777	178,409	232,583	266,339	300,095	362,903

Source: UWMP, p. 3-7.
(a) Does not include the portion of the City that receives water service from Cucamonga Valley Water District.
(b) The City estimates buildout by 2040.

The City has considered certain demographic factors in its water management planning, including special housing needs (e.g., low-income earners, single-parent

families, large families, seniors, people with disabilities, and homeless persons) (UWMP, p. 3-7).

2.2 City of Ontario's Current and Future Water Demand

As shown in **Table 2-2** (next page), OMUC serves at least 41,539 potable water connections and 521 non-potable connections and the total potable water demand in CY 2022 in the OMUC service area was approximately 31,130 acre-feet (AF) and the recycled water demand was 10,066.4 AF.

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Table 2-2 Recorded Citywide Water Demand

Customer Type	2005[a]		2010[a]		2015[b]		FY 19/20[d]		CY 2021[e]		CY 2022[f]	
	Volume (AF)	No. of Connections	Volume (AF)	No. of Connections	Volume (AF)	No. of Connections[c]	Volume (AF)	No. of Connections	Volume (AF)	No. of Connections	Volume (AF)	No. of Connections
Potable Water												
Single-Family Residential	16,421	28,932	13,253	29,473	10,941	26,838	12,502	31,626	12,883.96	31,626	12,596.29	34,286
Multi-Family Residential	6,147	2,244	5,425	2,069	4,839	1,968	5,068	2,164	4,968.58	2,164	5,314.40	2,245
Commercial	8,369	3,095	6,692	3,285	6,584	3,201	5,359	3,255	5,150.44	3,255	5,403.43	3,445
Industrial	2,402	327	2,044	278	1,471	268	2,078	332	1,638.97	332	577.36	337
Governmental	1,178	320	0	-	-	-	538		-		-	
Landscape	6,813	1,246	7,170	1,245	4,564	1,100	4,631	1,469	5,560.93	1,469	4,414.76	1,226
Agriculture	0	0	0	-	-	-	-	-		-		-
Other	378	161	819	308	340	66	368	-	2,679.90	-	2,823.61	-
Loss	3,154	-	-	-	-	-	1,565	-	-	-	-	-
S/T/E	0	-	0	-	206	-	-	-		-		-
Subtotal Potable	44,863	36,325	35,403	36,658	28,945	33,441	32,109	38,846	32,882.78	38,846	31,129.85	41,539
Recycled Water	1,829	-	1,547	178	7,208	279	7,812	444	9,108.67	444	10,066.40	521
Total	46,692	36,325	36,950	36,836	36,153	33,720	39,921	39,290	41,991.43	39,290	41,196.25	42,060

Note: AFY = acre feet; S/T/E = sales/transfers/exchanges.
(a) AKM 2011, pp. 3-2, 3-5.
(b) UWMP 2016, pp. 2-1, 4-2, Appendix B.
(c) CY 2015 Annual Report to Division of Drinking Water.
(d) 2020 UWMP, pp. 4-3 and 4-5.
(e) From OMUC 2020 Annual Report to Division of Drinking Water, which is reported on Calendar Year basis. Recycled water data from IEUA internal recycled water reconciliation 2021 document.
(f) From OMUC 2022 Internal Billing System Data. Recycled water data from IEUA internal recycled water reconciliation document.

The OMUC water demands from 2025 to 2045 as forecasted in the 2020 UWMP are shown in **Table 2-3** (UWMP, p. 4-3).

Table 2-3 Future Citywide Water Demand (AFY)

Customer Type	2025	2030	2035	2040	2045
Single Family Residential	15,723	17,540	19,109	22,431	22,431
Multifamily Residential	6,374	7,110	7,746	9,093	9,093
Commercial	6,740	7,519	8,191	9,615	9,615
Industrial	2,613	2,915	3,176	3,728	3,728
Institutional / Governmental	677	755	822	965	965
Landscape	5,824	6,497	7,078	8,309	8,309
Losses	1,968	2,196	2,392	2,808	2,808
Other	463	5156	562	660	660
Subtotal Potable Demand[(a)]	40,382	45,048	49,076	57,609	57,609
Recycled Water Demand[(b)]	12,168	13,465	14,762	16,059	16,059
Total Water Demand	52,550	58,513	63,838	73,668	73,668

Notes: AFY = acre-feet per year; Does not include areas within the City that are not served by OMUC. Buildout assumed for 2040.

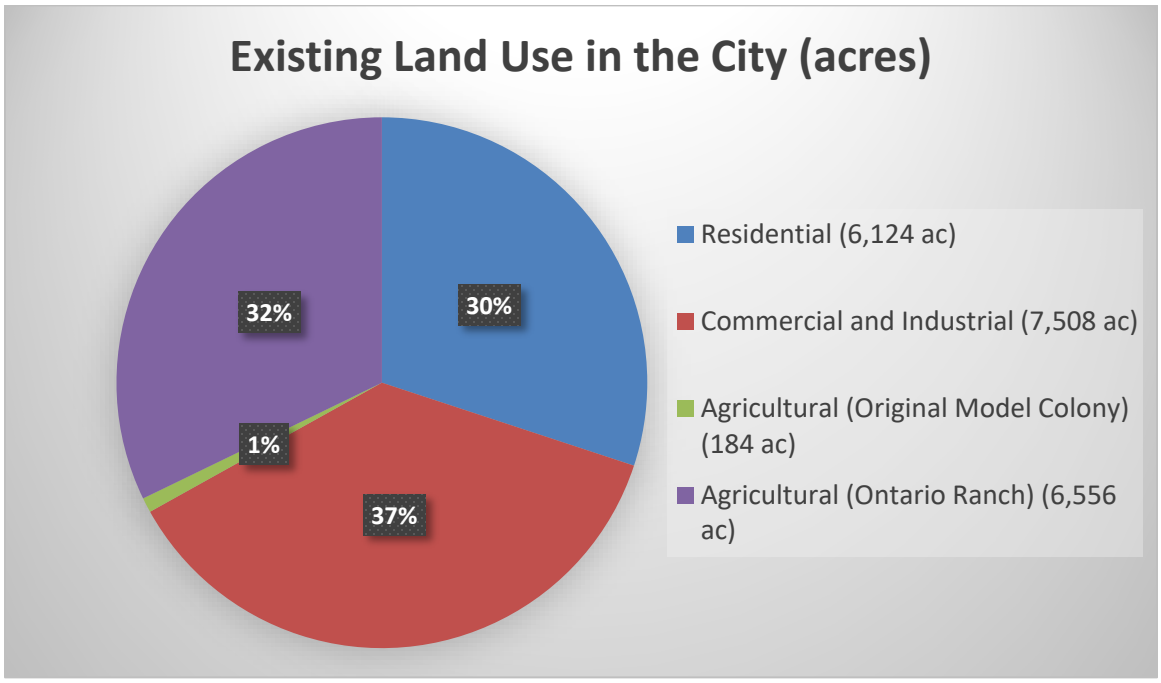
(a) 2020 UWMP, p. 4-4.

(b) 2020 UWMP, p. 4-5. Agricultural water demands are included in recycled water retail demands.

Water use patterns change during dry years. The expected changes to water demand and water supply during dry years are provided in Section 3 – Water Supply Analysis.

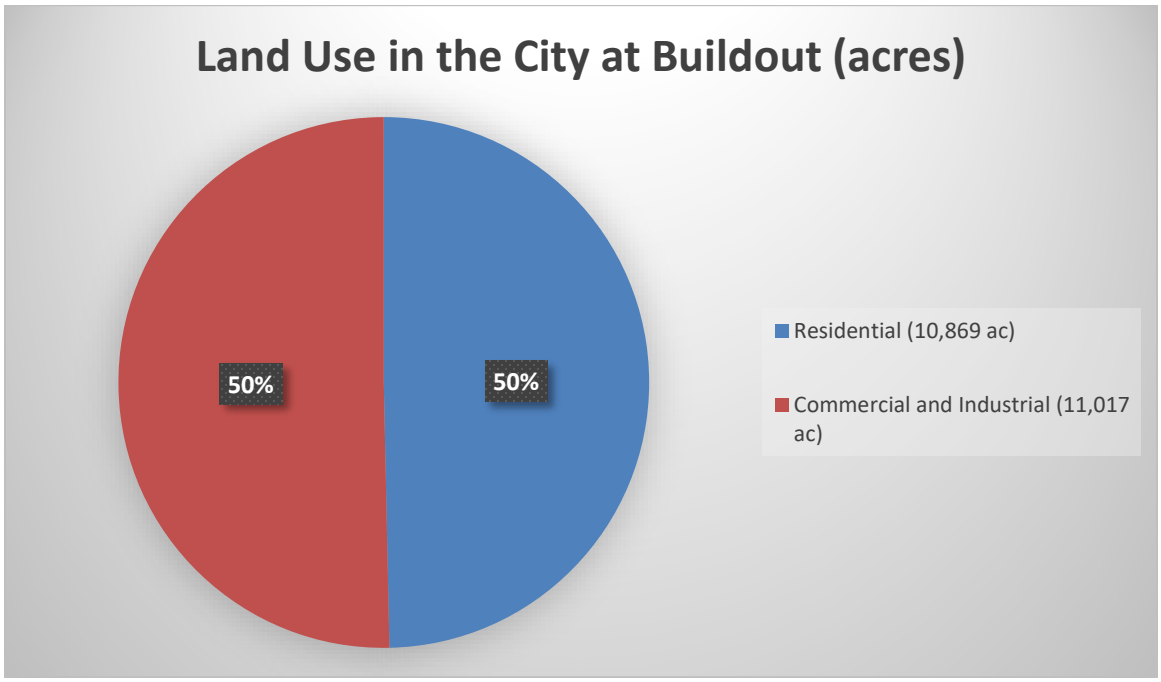
The City's 2020 UWMP and 2020 Water Master Plan assume the same trend in future land use changes within the City. Namely, land uses are currently a nearly equal balance of residential, commercial / industrial, and agricultural as shown in **Figure 5**. However, agricultural use is projected to be completely replaced with residential, commercial, and industrial by buildout (2040) as shown in **Figure 6**.

Figure 5 – Existing (2017) Land Uses in the City (acres)



Source: 2020 UWMP, p. 3-8.

Figure 6 – Land Use in the City at Buildout (acres)



Source: 2020 UWMP, p. 3-8.

2.3 Project Site Land Use Assumed in the UWMP

The City's 2020 Water Master Plan and 2020 UWMP used the current (current as of May 2017) General Plan land use plan to calculate projected water demands (see Figure 4). Using the City's unit water demand factors, the estimated potable and recycled water demands for the parcels within the Project limits that was accounted for in the 2020 UWMP is shown in **Table 2-4**. Refer to **Spreadsheet 1** at the end of the report for detailed calculations.

Table 2-4 Water Demand of the Project Site Land Uses Assumed in the UWMP

Land Use Designation[a]	Acres	Potable Water Demand (AFY)[b]	Recycled Water Demand (AFY)[c]	Total Water Demand (AFY)
Office Commercial (0.75 FAR)	40	112	67	179
Medium Density Residential (11.1 - 25 du/ac)	32	240	27	267
Open Space-Non Recreational	12.01	13	0	13
Total	84.01	365	94	459

Notes: AFY = acre feet per year; FAR = floor to area ratio; du/ac = dwelling unit per acre.
Refer to Spreadsheet 1.

(a) Source: "Figure 1.5 Existing and Proposed Policy Plan Land Use Designation" from page 8 of "City of Ontario RFP for Preparation of an EIR for the Euclid Mixed Use Specific Plan".

(b) Potable unit water demand factors from AKM 2020, p. 4-10.

(c) Recycled water demand factors from Stantec 2020, p. 5.26.

2.4 Proposed Project Water Demand

The potable and recycled water demands of the proposed Project as shown in Figure 3 using the City's current unit water demand factors for potable and recycled water is detailed in **Spreadsheet 2** and summarized in **Table 2-5**.

Table 2-5 Proposed Project Water Demand

Euclid Mixed Use Specific Plan	Acres	Potable Water Demand (AFY)	Recycled Water Demand (AFY)	Total Water Demand (AFY)
Business Park (PA 1 and PA 2)	53.06	107	71	178
Mixed Use (PA 3)	19.03	85	32	117
Open Space Non-Recreational	12.01	13	32	45
Total	84.10	205	135	340

Notes: PA = Planning Area; AFY = acre feet per year. Refer to Spreadsheet 2.
(a) Calculations conservatively assume potable and recycled water use in the OS-NR areas.

The following assumptions were made to estimate water demand for the Project:

- Potable and recycled water demands were calculated on a per-acre basis.
- The calculations of water use in the Open Space-Non Recreational areas of the Specific Plan conservatively assume both potable and recycled water use.

Conclusion

The estimated total water demand for the Project site that was assumed in the 2020 UWMP is approximately 459 AFY (Table 2-4) and the proposed Project's total water demand is approximately 340 AFY (Table 2-5). Because the City's water demand projections in the 2020 UWMP were based on a land use scenario with a greater water demand than that which is proposed by the Project, it can be deduced that the water demand for the proposed Project was accounted for in the most recently adopted 2020 UWMP.

SECTION 3 - WATER SUPPLY ANALYSIS

This section identifies the sources of potable water utilized and available to the water supplier of the proposed Project. The purpose of this section is to evaluate the water supplies that could be utilized by the proposed Project during normal, single-dry, and multiple-dry water years during a 20-year projection.

OMUC is the City water supplier and hence the proposed Project. OMUC has the following sources of water supply: City wells in the Chino Groundwater Basin; treated groundwater from the Chino Desalter Authority (CDA); recycled water from Inland Empire Utilities Agency (IEUA); purchased water from San Antonio Water Company (SAWCo); and imported wholesale water from the Water Facilities Authority (WFA).

Law

CWC Section 10910:

> (d) (1) *The assessment required by this section shall include an identification of any existing water supply entitlements, water rights, or water service contracts relevant to the identified water supply for the proposed project, and a description of quantities of water received in prior years by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), under the existing water supply entitlements, water rights, or water service contracts.*
>
> *(2) An identification of existing water supply entitlements, water rights, or water service contracts held by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), shall be demonstrated by providing information related to all of the following:*
>
> *(A) Written contracts or other proof of entitlement to an identified water supply.*
>
> *(B) Copies of a capital outlay program for financing the delivery of a water supply that has been adopted by the public water system.*

(C) Federal, state, and local permits for construction of necessary infrastructure associated with delivering the water supply.

(D) Any necessary regulatory approvals that are required in order to be able to convey or deliver the water supply.

3.1. Documenting Wholesale Water Supplies

Many retail water suppliers in California including OMUC, receive supplies from one or more water wholesalers. SB 610 requires the WSA to document wholesale supplies received by: 1) describing the quantities of water received from each wholesaler in prior years; 2) identifying existing entitlements, water rights, and/or water service contracts held by the City for the wholesale supply; 3) provide proof of entitlements, water rights, service contracts, relevant capital outlay programs, and construction permits for necessary infrastructure to deliver wholesale supplies, if any; and 4) regulatory approvals required to convey or deliver the wholesale supply.

Wholesale Supplies Received

OMUC receives wholesale water from the WFA who purchases untreated imported water from IEUA, who in turn obtains it from The Metropolitan Water District of Southern California (MWD). WFA and IEUA are both wholesale water suppliers and IEUA is a member agency of MWD. MWD is a wholesaler and contractor for State Water Project water imported from northern California. State Water Project water is available as stipulated by DWR in response to the hydrology and environmental regulations that can change available supply.[2] Therefore, imported water supplies to southern California can be highly variable; in January 2014 for example, the allocation of State Water Project water to all contractors was temporarily reduced to 0 percent due to persistent drought conditions. Nonetheless, MWD has projected in its 2020 UWMP, 100 percent water supply reliability over the next 20 years (2025-2045) during average, single-dry, and multiple-dry years (MWD UWMP, pp. ES-6 and ES-7).

[2] DWR, *State Water Project Delivery Capability Report*, published every 2 years, as well as "Notice to State Water Project Contractors" issued as often as needed.

The amount of imported water purchased by IEUA from MWD is limited by a purchase order agreement that allows IEUA to purchase up to 93,283 acre-feet per year (AFY) at its lowest rate (Tier I) through Dec. 31, 2024 (IEUA Resolution no. 2014-12-1 located in Appendix I). The purchase order agreement includes an annual minimum purchase commitment of 39,835 AFY, which is slightly less than the minimum operational need of the region's water treatment facilities (i.e., 40,000 AFY; WFA's Agua de Lajos Treatment Plan (81 mgd capacity), Fontana Water Company's Sandhill Surface Water Treatment Plant (29 mgd capacity), CVWD's Lloyd W. Michael Water Treatment Plant (60 mgd capacity) (IEUA 2016 IWRP, p. 36). Resolution 2014-12-1 also establishes how much water WFA, Cucamonga Valley Water District, and Fontana Water Company may purchase from IEUA, up to 69,572 AFY (IEUA 2020 UWMP, p. 2-6).

The WFA was formed in 1980 as a Joint Powers Authority by the cities of Chino, Chino Hills, Ontario, Upland, and the Monte Vista Water District in order to construct and operate water treatment facilities for providing supplemental potable water to the member agencies. In 1985, the City established an agreement to purchase capacity in the WFA water treatment plant; a copy of which is located in Appendix J. Then, in 1988 the WFA finished construction of the Agua de Lejos Water Treatment Plant (WTP) in Upland to treat the imported water from IEUA and MWD to meet drinking water standards.

Currently, the Agua de Lejos WTP has the capacity to treat and disinfect 81 million gallons per day (mgd). Recorded flows through the Agua de Lejos WTP have ranged from 40 to 50 mgd during the peak summer months and can be as low as 9-12 mgd during winter months (http://www.wfajpa.org/#Facilities). As documented in WFA Ordinance No. 99-07-02 (located in Appendix K), the City owns 31.4 percent of the plant capacity of the Agua de Lejos WTP. As of 2020, that proportion is equivalent to approximately 25 mgd (28,004 AFY) (AKM 2020, p. 3-2). OMUC can purchase up to 9,915 AFY (8.9 mgd) of imported supply through WFA at Tier 1 rates. Beyond that amount, OMUC could continue to purchase at Tier 2 rates.

As of FY 21/22, OMUC purchased 5,687 AF of wholesale water from the WFA (OMUC(a)). The actual and projected wholesale water supplies available to WFA through 2045 are shown in **Table 3-1**.

Table 3-1 Wholesale Water Supplies Available to WFA (AFY)

Wholesale Water	2015[a]	2020[b]	2025	2030	2035	2040	2045
	Actual		Projected[b]				
WFA (potable)	14,864	25,492	30,651	31,997	33,435	34,829	36,280

Note: WFA = Water Facilities Authority; AFY = acre feet per year.
(a) Data for 2015 Actual from *IEUA and WFA 2015 UWMP*, pp. 3-9 – 3-10.
(b) Data for 2020 Actual and 2025 through 2045 Projected from *WFA 2020 UWMP* (p. 6-18, (Appendix F)).

To reduce dependence on imported water supplies, OMUC joined the "Dry Year Yield Storage Program," which is described below.

Dry Year Yield Storage Program

The Dry Year Yield (DYY) storage program is a cooperative Conjunctive Use Program Agreement between MWD, IEUA, Chino Basin Watermaster, Three Valleys Municipal Water District, and the Chino Basin groundwater producers (Agreement No. 49960 [DYY 2014]). Under the DYY Program, MWD can store up to 100,000 AFY of water in the Chino Groundwater Basin during wet years when surplus water is available, and to reduce imported water deliveries up to 33,000 AFY in dry, drought, or emergency periods, but not to exceed the amount of water in the MWD storage account (OMUC 2020 UWMP, p. 6-18).

In 2003, the City executed an agreement with IEUA to participate in the DYY program. The DYY Agreement was amended in September 2014 to clarify storage measurement and extraction from the MWD storage account, define baseline conditions in calculations of performance targets, define procedures for variances in performance targets, revise administrative milestones, and make miscellaneous updates (refer to Appendix L for original agreement and amendments). The 2014 DYY amendments also

provided for a minimum imported water delivery of 40,000 AFY during "call" years, establishing minimum needs for direct deliveries from MWD. As of June 30, 2020, the storage balance in the DYY account is 45,961 AF (OMUC 2020 UWMP, p. 6-18).

Participation in the DYY program obligates OMUC to reduce its use of imported water from WFA by a fixed amount, known as the "shift obligation" when MWD makes a "call" for their water stored in the Chino Basin. OMUC's shift obligation is 8,076 AFY, which is the amount OMUC purchases from WFA during a baseline year (OMUC 2020 UWMP, p. 6-33). OMUC purchases an additional 2,000 AFY from WFA that is then sold to neighboring water supplier Jurupa Community Services District (JCSD) who does not have an imported water connection.

In 2014, JCSD entered into an agreement with the City to participate in the DYY program (a copy of which is located in Appendix L). During years when MWD makes a "call" for the water in their storage account, OMUC will decrease its purchase of WFA imported water by a combined total of 10,076 AF (8,076 AF plus 2,000 AF) compared to the previous year. To meet its obligation in the DYY program during a "call" year, JCSD will deliver 2,000 AF to OMUC from the Chino Basin Desalter Authority (CDA).[3]

DYY funds from DWR local assistance grants were used for the construction of three OMUC groundwater wells (Wells 45, 46, and 47) and an ion-exchange facility located at John Galvin Park to treat water extracted from Wells 44 and 52. When MWD makes a "call" for its stored water, OMUC can operate these facilities to meet its shift obligation. MWD will then pay for the cost of operations and OMUC would pay MWD (through IEUA) the full-service water rate. OMUC can use the DYY facilities to meet its normal water demands during other periods, but OMUC is responsible for the well operation and maintenance costs (OMUC 2020 UWMP, p. 6-33).

[3] Assuming JCSD's imported water baseline is 2,000 AFY (JCSD 2014).

The additional groundwater capacity provided by this program allows OMUC to increase the percentage supply used to meet peak demands and allow OMUC to be less reliant upon imported water supplies (OMUC 2020 UWMP, p. 6-33).

3.2. Documenting Water Supplies

The 2020 UWMP states approximately 46 percent of OMUC's water supply comes from groundwater, 34 percent from imported water, and 20 percent of supply is from recycled water (OMUC 2020 UWMP, p. 6-37).

The recorded water supplies available to OMUC from 2000 through 2022 are provided in **Table 3-2** (next page) and the projected water supplies available to OMUC from 2025-2045 are provided in **Table 3-3.** Each water supply source is identified as a water supply entitlement, water right, or water service contract per SB 610 guidance. Appropriative rights to groundwater are discussed in Chapter 4 – Groundwater Analysis.

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Table 3-2 Recorded OMUC Water Supplies (AFY)

Source	2000[a]	2005[b]	2010[c]	2015[d]	FY 19/20[e]	FY 20/21	CY 2021[f]	FY 21/22	CY 2022[f]	Form of Right	Amount of Right
Wells	36,862	28,799	20,955	19,544	18,395	20,281	18,009	18,628	18,967	Appro-priative	Varies (see Sec. 4)
Purchased WFA	9,258	13,406	8,923	6,413	6,513	5,851	6,830	5,687	4,235	Capacity Ownership	25 mgd (31.4% of plant capacity)
CDA	-	-	5,000	3,543	6,636	7,337	8,009	8,927	9,083	Capacity Ownership	8,533 AFY
SAWCo	-	-	-	443	565	500	472	430	376	Share-holder Entitlement	600 AFY
Subtotal Potable	46,120	42,205	34,878	29,943	32,109	33,969	33,320	33,672	32,660	--	--
Recycled Water	700[g]	-	1,547	3,859[h]	7,812[i]	8,557[J]	9,109[L]	9,593[k]	10,066	Contract	Ontario's share of sewage flows.
Total Supply	46,820	42,205	36,425	33,802	39,921	42,526	42,429	43,264	42,727	--	--

Notes: WFA = Water Facilities Authority; CDA = Chino Basin Desalter Authority; SAWCo = San Antonio Water Company; FY = fiscal year; AFY = acre-feet per year; mgd = million gallons per day.
(a) Webb 2004, p. 21.
(b) AKM 2011, pp. 3-8 and 5-12.
(c) AKM 2011, p. 4-2.
(d) OMUC UWMP 2016, p. 6-16.
(e) OMUC 2020 UWMP, Table 6-8.
(f) OMUC, 2023.
(g) Webb 2004, p. 29.
(h) Does not include recycled water for agriculture deliveries (3,349 AF).
(i) The City's share of sewerage flows delivered to treatment plants in FY19/20 was approximately 12,645 AF (OMUC 2020 UWMP, p. 6-24).
(J) The City's share of sewerage flows delivered to treatment plants in FY20/21 was approximately 12,854 AF (OMUC(b), 2022).
(k) The City's share of sewerage flows delivered to treatment plants in FY21/22 was approximately 13,199 AF (OMUC, 2023).
(L) The City's share of sewerage flows delivered to treatment plants in CY 2021 was approximately 12,961 AF (OMUC, 2023). CY2022 flows are unavailable at this time.

Table 3-3 Projected OMUC Water Supplies (AFY)

Source	2025	2030	2035	2040	2045	Form of Right	Amount of Right
Wells	20,249	22,915	24,943	31,476	31,476	Appropriative	Varies (see Sec. 4)
Purchased							
WFA	11,000	13,000	15,000	17,000	17,000	Capacity ownership	25 mgd (31.4% of plant capacity)
CDA	8,533	8,533	8,533	8,533	8,533	Capacity Ownership	8,533 AFY
SAWCo[(a)]	600	600	600	600	600	Shareholder entitlement	600 AFY
Subtotal Potable	40,382	45,048	49,076	57,609	57,609	--	--
Recycled	12,168	13,465	14,762	16,059	16,059	Contract	Ontario's share of sewage flow.
Total Supply	52,550	58,513	63,838	73,668	73,668	--	--

Note: AFY = acre feet per year; FY = fiscal year; mgd = million gallons per day.
Source: OMUC 2020 UWMP, Table 6-9, p. 6-38.
(a) According to SAWCo's 2020 UWMP, the estimated projected annual water demands for OMUC for 2025 through 2045 is 601 AFY.

OMUC anticipates increasing its total water supply by pursuing: 1) full utilization of OMUC's groundwater rights in the Chino Basin allowed under the Chino Basin Groundwater Adjudication Judgment (including increased groundwater recharge with stormwater and recycled water described in Section 4); 2) expanding use of recycled water; and 3) expanding use of desalter water (OMUC 2020 UWMP, p. 6-38).

Water Supply Capacities

The capacity of each source of supply available to OMUC is provided in the 2020 Ontario Water Master Plan (AKM 2020), which is provided in Appendix B. The capacity of the supply system refers to the maximum production or conveyance rate based on the pumps and infrastructure. For example, the capacity of groundwater wells refers to a pumping rate based on running the pumps at full utilization, 24-hours a day, 7 days a week. Although this maximum rate of pumping is assumed in terms of comparing capacities, pumps are rarely used at more than two-thirds capacity. Knowing the

system capacity is important to ensure OMUC can meet all demands imposed upon the system, specifically meeting "average day demand" and "maximum day demand." Demand can be met with multiple supply sources, storage, or a combination of both. OMUC's reservoirs are not discussed in this Assessment, however, according to the master plan reservoirs are used to regulate hourly fluctuations in demand, provide fire flow, and supplement supply during an extended outage of a source including emergency storage (AKM 2020, p. 7-3). The City's emergency storage criterion is set at one average day demand (AKM 2020, p. 10-2).

According to the 2020 Water Master Plan, OMUC is required to meet the following water supply criterion from the California Code of Regulations Related to Drinking Water: "a minimum source of supply equal of one maximum day demand of the service area" (AKM 2020, p. 10-1). Further, OMUC has set a design criterion in its 2020 Water Master Plan that "requires a source of supply equal to one average day demand (19,280 gpm) from local sources" (AKM 2020, p. 10-1). As the land uses and population change in OMUC service area, so do the average and maximum day demands. The existing (2020) maximum capacities of existing sources of supply available to OMUC are provided in **Table 3-4**.

Table 3-4 Existing (2020) Supply Capacities

Source	AFY	mgd	gpm
Existing Wells[(a)]	62,269	55.6	38,604
WFA at Aqua de Lejos WTP	17,259	15.4	10,700
CDA from Chino I & II Desalter	8,533	7.62	5,290
Total Existing Capacity[(a)]	88,061	78.62	54,594

Note: AFY = acre-feet per year; mgd = million gallons per day; gpm = gallons per minute.

Source: Table 10-2 of AKM 2020 (Appendix B). OMUC confirmed for this Assessment that as of 4/12/23, these capacities have not changed.

(a) Assuming wells operate 24 hours per day for 365 days per year.

The maximum capacities of the 'ultimate' sources of supply available to OMUC according to the City's 2020 Water Master Plan, are provided in **Table 3-5**.

Table 3-5 Ultimate Supply Capacities

Source	AFY	mgd	gpm
Existing Wells	62,269	55.6	38,604
Future Wells	48,068	42.9	29,800
Subtotal[(a)]	110,337	99	68,404
WFA at Aqua de Lejos WTP	17,259	15.4	10,700
CDA from Chino I & II Desalter	8,533	7.62	5,291
Total	136,129	121.52	84,395

Note: AFY = acre-feet per year; mgd = million gallons per day; gpm = gallons per minute.
Source: Table 12-2 of AKM, 2020 (Appendix B).
(a) Assuming wells operate 24 hours per day for 365 days per year.

As described in the 2020 Ontario Water Master Plan, the combined ultimate capacity of existing and future wells is approximately 68,404 gpm (Table 3-5), which is about 192% of the future average day demand (35,716 gpm) and therefore meets the City and state supply criterion for average day demand coming from local sources (p. 12-1). OMUC confirmed for this Assessment that the capacities shown in Tables 3-4 and 3-5 have not changed since the 2020 Water Master Plan.

In addition, the ultimate supply capacity is equivalent to 84,395 gpm, which is about 154% of the City's future maximum day demand (54,778 gpm); therefore, the City is capable of providing the full projected maximum day demand (AKM 2020, p. 12-1). However, under ultimate conditions the supply capacity will require additional future wells, as shown in Table 3-5 to meet the water supply criterion for maximum day demand.

3.3. Descriptions of All Water Supply Projects

City Well Production

OMUC currently owns 17 active groundwater wells in the Chino Basin (AKM 2020, p. 6-1). The Chino Basin is one of the largest groundwater basins in southern California,

with an estimated 5 million AF,[4] with another 1 million AF in additional storage capacity. OMUC is planning future wells in the 925 Pressure Zone serving Ontario Ranch with a combined additional supply capacity of 29,800 gpm (48,068 AFY) (Table 3-5) (AKM 2020, p. 12-1).

During FY 21/22, OMUC produced 14,390.0 AF from the Chino Basin (CBWM 2022, p. 9.1). OMUC's existing (2020) well capacity is approximately 62,269 AFY (Table 3-4).[5] The recorded extractions from OMUC wells between 2016 and 2022 are shown in **Table 3-6.**

Table 3-6 Recorded Groundwater Production, 2016-2022 (AFY)

Supply	2016	2017	2018	2019	2020	2021[(a)]	2022[(b)]
City wells in Chino Basin	22,751	24,672	26,109	19,604	18,395	17,171.1	14,390.0

Note: AFY = acre feet per year. Data shown are Fiscal Years.
Source (2016-2020): OMUC 2020 UWMP, p. 6-19, Table 6-1 (Appendix A).
(a) CBWM 2021, p. 9.1.
(b) CBWM 2022, p. 9.1

As of 2020, approximately 46 percent of OMUC water supply came from groundwater pumped by OMUC wells in the Chino Basin. OMUC strives to maximize local water supplies and minimize the need for imported water from other regions (OMUC 2020 UWMP, p. 1-5). A thorough description of the City's groundwater rights pursuant to SB 610 guidance is provided in Section 4 – Groundwater Analysis.

Chino Basin Desalter Authority (CDA) Groundwater Production

OMUC is a member of the CDA, a joint exercise of powers agency created on September 25, 2001, along with JCSD, Santa Ana River Water Company, IEUA and the

[4] The *2020 Safe Yield Recalculation Final Report* (May 15, 2020) indicates the estimated total volume of water in storage was 12.6 million AF in July 2018 (WEI 2020, p. 6-15).
[5] Assuming wells operate 24 hours per day for 365 days per year.

cities of Chino, Chino Hills, and Norco. Western Municipal Water District joined CDA on April 2, 2009. The goals of the CDA are:

- Achieve hydraulic control of the Chino Basin to prevent contaminated Chino Basin groundwater from entering Santa Ana River;
- Remove contamination (primarily nitrates, as well as TCE, PCE, and TCP) from groundwater in the southern portion of the Chino Basin; and
- Deliver the treated water to member agencies to offset the need for imported water.

CDA provides high-quality drinking water to CDA members through "take or pay" contracts. CDA operates 30 wells and two desalters (salt removers) that treated approximately 35,003 AF of Chino Basin groundwater in 2020 (CDA 2020 UWMP, p. 6-27). In the future, "CDA will pump up to 40,000 AFY of contaminated groundwater from the Chino Basin for water quality management purposes, groundwater cleanup, and hydraulic control required by the Santa Ana Regional Water Quality Control Board. CDA will provide up to 35,200 AFY of treated water to its member agencies" (CDA 2020 UWMP, p. 6-27). Capacity ownership by member agencies is a percentage based on the CDA capacity, of which 40,000 AFY correlates to 8,533 AFY for Ontario; therefore, when CDA's capacity increases (or decreases), OMUC can purchase more (or less) than 8,533 AFY.

The Chino I Desalter, located at 6905 Kimball Avenue in Chino, was completed in 2000 and expanded in August 2005 to its current rated capacity of 14.2 mgd (CDA 2020 UWMP p. 6-8). However, the Chino I Desalter cannot provide this rated capacity due to the high total dissolved solids (TDS) in the raw groundwater supply. The Chino II Desalter was completed in 2006 and is located at 11202 Harrel Street in the City of Jurupa Valley. The current rated capacity of Chino II Desalter is 33 mgd (CDA 2020 UWMP, p. 6-8).

Although Chino Desalter I capacity will not be increased, additional raw water capacity is provided by five new CDA wells in the Chino Creek Well Field. All five wells have been drilled and equipped.

In FY 21/22, OMUC purchased approximately 8,927 AF from CDA (Table 3-2). As shown in Table 3-3, the water supply from CDA to OMUC is projected to stay at the City's current capacity ownership amount of 8,533 AFY. The City's capacity rights to CDA are described in Section 4 – Groundwater Analysis.

Inland Empire Utilities Agency (IEUA) Recycled Water Supply

OMUC purchases recycled water supplies from IEUA. IEUA treats the City's wastewater at its four regional wastewater reclamation plants. IEUA provides wastewater treatment services to seven Contracting Agencies, including the City of Ontario. OMUC has been using recycled water produced by IEUA since 1972. Currently, recycled water is used in the City for agricultural irrigation, landscape irrigation, golf course irrigation, and industrial purposes.

"Pursuant to the Chino Basin Regional Sewage Service Contract, each Contracting Agency has the right of first purchase of their Base Entitlement. Base Entitlement is defined as the total quantity of sewage delivered into the Regional Sewerage System by the Contracting Agency less normal processing losses resulting from the treatment of sewage" (OMUC 2020 UWMP, p. 6-21). In FY 19/20, this amount was 12,645 AF (OMUC 2020 UWMP, p. 6-24), which increased in FY 20/21 to 12,854 AF (OMUC(a)) and increased again in FY 21/22 to 13,199 AF (OMUC, 2023). OMUC's utilization of the recycled water available to them has increased from roughly 62 percent in FY 19/20 to 73 percent in FY 21/22 (Table 3-2). Recorded and projected supplies of recycled water available to OMUC are listed in **Table 3-7**.

Table 3-7 Recorded and Future Recycled Water Supply (AFY)

Beneficial Use Type	2020	2025	2030	2035	2040	2045
Agricultural irrigation	2,905	1,704	1,136	568	0	0
Landscape irrigation	3,290	7,088	8,612	10,136	11,659	11,659
Golf course irrigation	631	660	680	700	720	720
Industrial use	986	2,716	3,037	3,358	3,680	3,680
Total	7,812	12,168	13,465	14,762	16,059	16,059

Note: AFY = acre feet per year

Source: OMUC 2020 UWMP, p. 6-28 (Appendix A). Ontario reports in Fiscal Years. Buildout estimated for 2040.

Over the next 20 years, landscape irrigation is projected to have the greatest increase in demand for recycled water followed by industrial use within the OMUC service area. Agricultural properties are expected to convert to more urban land uses, while supplies to golf courses are expected to remain relatively stable. (OMUC 2020 UWMP, p. 6-28).

IEUA has prepared recycled water studies, plans, and strategy documents to bring a regional recycled water delivery system to fruition. OMUC updated their Recycled Water Master Plan in 2020 (located in Appendix C) to fully coordinate with IEUA's recycled water planning efforts.

San Antonio Water Company (SAWCo) Potable Water Supply

SAWCo is a mutual water company and corporation located in Upland. SAWCo has provided water service to its active shareholders for over 135 years. Although SAWCo does not technically meet the threshold as a retailer or wholesale water agency that needs to prepare an UWMP, they have done so nonetheless in 2020.

SAWCo supplies water based on entitlement only, which is based on the number of shares held. The number of shares is finite and considered a commodity that can be divided or sold. The "entire water of the company" and the current entitlement for

2020 is equivalent to 12,570 AFY, which distributed among the 6,178 shares. The volume per share is subject to change (OMUC 2020 UWMP, p. 6-8).

The City owns 295 shares of SAWCo, which equates to a current entitlement of 600 AFY of potable water to OMUC (OMUC 2020 UWMP, p. 6-8). In FY 21/22, OMUC received an actual volume of 430 AF (Table 3-2). OMUC has forecasted that future available supplies will be 600 AFY from 2025 to 2045 (Table 3-3). The City receives water from SAWCo indirectly through a connection made in 2015 from SAWCo to the WFA.

SAWCo water supplies are a mixture of potable and non-potable water from San Antonio Creek, the San Antonio Tunnel and three groundwater basins: Chino Basin, Cucamonga Basin and Six Basins (OMUC 2020 UWMP, p. 6-9). No new sources of supply are anticipated to be developed by SAWCo over the planning horizon. Actual supply available to SAWCo in 2020 totaled 2,584 AF of potable supply and 13,762 AF of non-potable supply. In their 2020 UWMP, SAWCo estimates for 2025 and 2030 that total reasonably available supplies will be 15,260 AFY (SAWCo 2020 UWMP, p. 5-10).

In terms of future reliability, SAWCo has stated the following in its 2020 UWMP (p. 6-4): "SAWCo expects to meet demands under all water year scenarios with existing supply sources." In addition, SAWCo has future transfer and exchange projects planned to mutually benefit certain shareholders during an emergency, including OMUC. SAWCo has completed projects in 2022 to increase storage and capture all raw water released through the Frankish Tunnel (SAWCo 2020 UWMP, p. 5-7).

3.4 Documenting Normal Year Water Supply and Demand

OMUC has assumed in its 2020 UWMP that customer water demand and available water supply are equal during "normal" precipitation years. The normal year water supplies available to OMUC, as well as the normal year water demand projections are compared in **Table 3-8,** which are based on the City's 2020 Water Use Target of 196 GPCD for potable water demands (OMUC 2020 UWMP, p. 7-9). OMUC has estimated

that sufficient supply will be available during any normal year occurring between 2025 and 2045.

Table 3-8 OMUC Projected Normal Year Supply and Demand (AFY)

	2025	2030	2035	2040	2045
Supply	52,550	58,513	63,838	73,668	73,668
Demand	52,550	58,513	63,838	73,668	73,668
Difference	0	0	0	0	0

Note: AFY = acre feet per year
From OMUC 2020 UWMP, p. 7-10 (Appendix A).

3.5 Documenting Dry Year Water Supply and Demand

The following assumptions are made in OMUC's 2020 UWMP to estimate future water supplies and demands during a single dry year:

- *The ratio of total water supplies (including potable and recycled water supplies) available to the City during a historical normal year in FY 19/20 (39,921 AF) and during a historical single dry year in FY 17/18 (43,346 AF) were used to estimate the City's projected water demands during single dry years (p. 7-9).*
- *Water losses have been included in the potable water demands as 7 percent of the annual demand.*

OMUC has determined that the water demands during single dry years over the next 25 years will be met, as shown in **Table 3-9**.

Table 3-9 OMUC Projected Single Dry Year Supply and Demand (AFY)

	2025	2030	2035	2040	2045
Supply	57,058	63,534	68,847	79,989	79,989
Demand	57,058	63,534	68,847	79,989	79,989
Difference	0	0	0	0	0

Note: AFY = acre feet per year
From OMUC 2020 UWMP, p. 7-10 (Appendix A).

3.6 Documenting Multiple Dry Year Supply and Demand

OMUC has projected that the City can meet water demands during future five consecutive year drought periods, as shown in **Table 3-10** (next page).

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Table 3-10 OMUC Projected Multiple Dry Year Supply and Demand (AFY)

		2025	2030	2035	2040	2045
First Year	Supply	56,080	62,445	67,667	78,618	78,618
	Demand	56,080	62,445	67,667	78,618	78,618
	Difference	0	0	0	0	0
Second Year	Supply	56,248	62,632	67,870	78,853	78,853
	Demand	56,248	62,632	67,870	78,853	78,853
	Difference	0	0	0	0	0
Third Year	Supply	59,493	66,246	71,786	83,403	83,403
	Demand	59,493	66,246	71,786	83,403	83,403
	Difference	0	0	0	0	0
Fourth Year	Supply	54,268	60,428	65,481	76,078	76,078
	Demand	54,268	60,428	65,481	76,078	76,078
	Difference	0	0	0	0	0
Fifth Year	Supply	47,436	52,820	57,237	66,500	66,500
	Demand	47,436	52,820	57,237	66,500	66,500
	Difference	0	0	0	0	0

Note: AFY = acre-feet per year
From OMUC 2020 UWMP, p. 7-11, Table 7-4 (Appendix A).

3.7 Comparison of Available Water Supply and Demand

As described in Section 2, the annual potable water demand for the proposed Project is estimated at 205 AFY and the recycled water demand for the Project is 135 AFY (Table 2-5). In comparison, the potable and recycled water demands estimated for the previously planned land uses of the same area are 365 AFY and 94 AFY, respectively (Table 2-4). The proposed Project's decrease in potable water demand of 160 AFY and increase in recycled water demand of 41 AFY for an overall net decrease in total water

demand (potable plus recycled) of 119 AFY as compared to the previous land uses indicates the Project's water demand was accounted for in the most recent UWMP.

As shown in Table 3-3 and Table 3-9, the future water supplies available to OMUC are projected to meet the projected water demands for the service area. Further, the future water demands in the 2020 UWMP did account for a potable water demand from the Project site and because of the change in land use designations being proposed by the Project, the water demand of the Project is less than the water demand accounted for in the 2020 UWMP projections.

As of 2020, OMUC can purchase up to 9,915 AFY (8.9 mgd) of imported supply through WFA at Tier 1 rates. Beyond that amount, OMUC could continue to purchase at Tier 2 rates (ultimate capacity for WFA supply is 15.4 mgd [Table 3-5]). In 2020, OMUC purchased about 6,513 AF from the WFA plant (Agua de Lejos WTP), which is well within their conveyance capacity of 15.4 mgd and within their rights of approximately 25 mgd. There is ample availability for OMUC to purchase additional imported water from the WFA that is within their rights to meet the needs of the proposed Project.

In regard to future agricultural water needs, agricultural properties within the OMUC service area are expected to convert to urban land uses, which is consistent with the City's General Plan Land Use Plan. Many agricultural operations in the City are on private wells and/or use recycled water. As shown in Table 3-7, recycled water deliveries for agricultural irrigation are projected to decrease to zero in less than 20 years. In regard to future industrial water needs, industrial land uses (which may include some manufacturing uses) are the third most common type in the City (Table 3-7) and they are planned by the City General Plan to increase (Table 2-3).

Table 3-9 and Table 3-10 show that OMUC projects water supplies during single-dry and multiple-dry years in volumes sufficient enough to meet the demand of the service area over the next 20 years. Section 4 will describe the supply available to OMUC through rights held to Chino Basin groundwater that are greater than the amount

currently extracted. OMUC can also bank water and pump in excess of their rights in the Chino Basin with payment of a replenishment fee.

Section 4 will discuss the City's water rights in light of this water supply and capacity analysis.

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SECTION 4 - GROUNDWATER ANALYSIS

SB 610 requires specific groundwater information to be included in the WSA if groundwater will be a source of water for the proposed project. As discussed in Section 3, groundwater is one of the sources of supply for OMUC and therefore part of the water supply for the proposed Project.

Law

CWC Section 10910:

> *(f) If a water supply for a proposed project includes groundwater, the following additional information shall be included in the water supply assessment:*
>
> *(1) A review of any information contained in the urban water management plan relevant to the identified water supply for the proposed project.*
>
> *(2)(A) A description of any groundwater basin or basins from which the proposed project will be supplied.*
>
> *(B) For those basins for which a court or the board has adjudicated the rights to pump groundwater, a copy of the order or decree adopted by the court or the board and a description of the amount of groundwater in the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), has the legal right to pump under the order or decree.*
>
> *(C) For a basin that has not been adjudicated that is a basin designated as a high- or medium- priority pursuant to Section 10722.4, information regarding the following: (i) Whether the department has identified the basin as being subject to critical conditions of overdraft pursuant to Section 12924. (ii) If a groundwater sustainability agency has adopted a groundwater sustainability plan or has an approved alternative, a copy of that alternative or plan.*

(D) For a basin that has not been adjudicated that is a basin designated as low- or very low priority pursuant to Section 10722.4, information as to whether the department has identified the basin or basins as overdrafted or has projected that the basin will become overdrafted if present management conditions continue, in the most current bulletin of the department that characterizes the condition of the groundwater basin, and a detailed description by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), of the efforts being undertaken in the basin or basins to eliminate the long-term overdraft condition.

(3) A detailed description and analysis of the amount and location of groundwater pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), for the past five years from any groundwater basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(4) A detailed description and analysis of the amount and location of groundwater that is projected to be pumped by the public water system, or the city or county if either is required to comply with this part pursuant to subdivision (b), from any basin from which the proposed project will be supplied. The description and analysis shall be based on information that is reasonably available, including, but not limited to, historic use records.

(5) An analysis of the sufficiency of the groundwater from the basin or basins from which the proposed project will be supplied to meet the projected water demand associated with the proposed project. A water supply assessment shall not be required to include the information required by this paragraph if the public water system determines, as part of the review required by paragraph (1), that the sufficiency of groundwater necessary to meet the initial and projected water

demand associated with the project was addressed in the description and analysis required by subparagraph D, paragraph (4) of subdivision (b) of Section 10631.

4.1 Review of Urban Water Management Plan (CWC Section 10910(f)(1))

The City's 2020 UWMP, prepared by AKM on behalf of the City of Ontario (OMUC) was adopted by City Council Resolution 2021-036 and 2021-037 on June 1, 2021 (located in Appendix A). The UWMP includes information relevant to the identified water supply for the proposed Project and is incorporated herein. Relevant information includes: 1) current and projected water demands (*Water Use Characterization*) through year 2045; 2) a description of the Chino Groundwater Basin (*Water Supply Characterization*); 3) the reliability of the water supply, projected supply and demand comparisons, and water shortage plans (*Water Service Reliability and Drought Risk Assessment and Water Shortage Contingency Plan*); and 4) water demand management efforts (*Demand Management Measures*).[6] The ultimate water demand projections of the 2020 UWMP are based on the findings of the City's 2020 Water Master Plan (AKM 2020) and 2020 Recycled Water Master Plan (Stantec 2020).

4.2 Groundwater Basin Descriptions (CWC Section 10910(f)(2))

The Chino Groundwater Basin is the direct source of groundwater for OMUC. Although water supplied to OMUC from SAWCo may include a combination of groundwater from other basins (i.e., San Antonio Tunnel, Cucamonga Basin, and Six Basins), the amount is minimal, and the basins are described in the 2020 SAWCo UWMP (located in Appendix H).

Chino Groundwater Basin Description

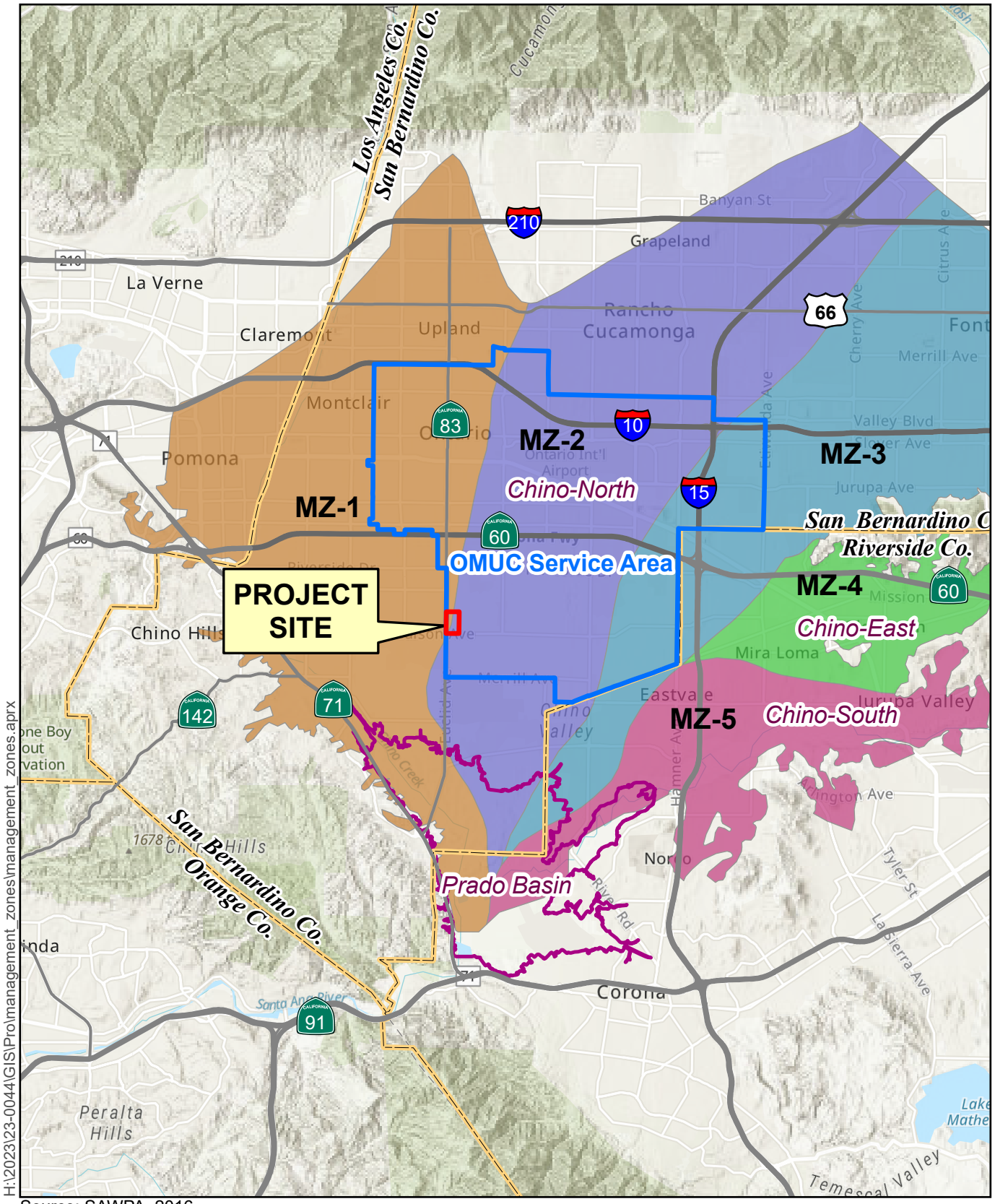
The Chino Basin covers approximately 240 square miles in the upper Santa Ana River Watershed, and underlies parts of Los Angeles, San Bernardino, and Riverside Counties. The state Department of Water Resources (DWR) identifies the Chino Basin as Basin No. 8-002.01, which is a sub-basin of the Upper Santa Ana Valley (Bulletin

[6] Words and phrases italicized in parentheses are in reference to chapters so titled in the 2015 UWMP.

118).[7] It is estimated the Chino Basin has approximately 5 million AF of water in storage, and an estimated 1 million AF of additional unused storage capacity.[8] While still considered a single basin for hydrologic purposes, the Chino Basin is divided into five management zones by the California Regional Water Quality Control Board , Santa Ana Region based on similar hydrologic conditions (**Figure 7**). Geographically speaking, the City is located in the approximate center of the Chino Basin. DWR Bulletin 118 (2016 update, p. 1) describes the Chino Basin as follows:

> *The subbasin* [Chino Basin] *is bound on the northwest by the San Jose fault, on the north by the Cucamonga fault and impermeable rocks of the San Gabriel Mountains, and on the east by the Rialto-Colton fault. The basin is bound on the southeast by the Jurupa Mountains, Pedley Hills, La Sierra Hills, and the approximate location of the Santa Ana River. The Chino fault and impermeable rocks of the Chino Hills and Puente Hills bound the southwest side of the basin. In some areas, the basin boundary coincides with the Chino Basin (1978) groundwater adjudication boundary.*

[7] DWR collects, summarizes, and evaluates groundwater data in the "Bulletin 118" series, which present the results of basin evaluations and defines the boundaries of California's 515 alluvial groundwater basins. An update was provided in 2016. In Bulletin 118, DWR identifies each basin and sub-basin with a number code.
[8] The *2020 Safe Yield Recalculation Final Report* (May 15, 2020) indicates the estimated total volume of water in storage was 12.6 million AF in July 2018 (WEI 2020, p. 6-15).



Source: SAWPA, 2016

Figure 7 - Chino Basin Management Zones

Euclid Mixed Use Specific Plan Water Supply Assessment

0 2 4 6 Miles

ALBERT A. WEBB ASSOCIATES

The Chino Basin is an adjudicated basin and has been extensively studied by the court-appointed Chino Basin Watermaster (CBWM), with reports available at www.cbwm.org. The following is an excerpt that describes the Chino Basin geology from the Chino Basin Watermaster's management plan called the "Optimum Basin Management Program" or "OBMP" (1999, p. 2-2):

> *Chino Basin was formed when eroded sediments from the San Gabriel Mountains, the Chino Hills, Puente Hills, and the San Bernardino Mountains filled a structural depression…The bottom of the Basin – the effective base of the freshwater aquifer – consists of impermeable sedimentary and igneous rocks. The base of the aquifer is overlain by older alluvium of the Pleistocene period followed by younger alluvium of the Holocene period.*
>
> *The younger alluvium varies in thickness from over 100 feet near the mountains to a just few feet, south of Interstate 10 and generally covers most of the north half of the Basin in undisturbed areas. The younger alluvium is not saturated and thus does not yield water directly to wells. Water percolates readily in the younger alluvium and most of the large spreading basins are located in the younger alluvium.*
>
> *The older alluvium varies in thickness from about 200 feet thick near the southwestern end of the Basin to over 1,100 feet thick southwest of Fontana, and averages about 500 feet throughout the Basin.*

Legal Right to Pump from the Chino Basin

Water rights to the Chino Basin were adjudicated by the Superior Court of the State of California for the County of San Bernardino in 1978 (a copy of the Judgment and amendments thereto are provided in Appendix M). The court's Judgment declared the Safe Yield of the Chino Basin at 140,000 acre-feet per year (AFY).[9] Withdrawal in

[9] Judgment (1978) defines Safe Yield as, "The long-term average annual quantity of groundwater (excluding replenishment or stored water but including return flow to the Basin from use of replenishment or stored water), which can be produced from the basin under cultural conditions of a particular year without causing an undesirable result."

excess of Safe Yield is termed Overdraft. The Chino Basin Watermaster may determine that the Operating Safe Yield (OSY) can be higher from year-to-year depending on factors including favorable precipitation and management efforts that maximize the beneficial use of the groundwater Basin.[10] The Chino Basin Watermaster has undertaken a safe yield redetermination. In July 2020, the court ordered that the safe yield be reduced by 3% and reset to 131,000 AFY for the period of July 1, 2020, to June 30, 2030. The court previously reset the safe yield from its initial 140,000 AFY to 135,000 AFY in 2017 for the period of 2010 to 2020.

The Chino Basin Watermaster is comprised of three stakeholder groups (or "pools"): Overlying Agricultural Pool Committee (representing dairymen, farmers, and the State of California); the Overlying Non-Agricultural Pool Committee (representing businesses and industries); and the Appropriative Pool Committee (representing local cities, public water districts and private water companies). The Chino Basin Watermaster carries out the provisions of the Judgment including monitoring of the Chino Basin and files an annual report on pumping and replenishment.

The City is a member of both the Overlying Non-Agricultural Pool and the Appropriative Pool. The Judgment allocates a portion of the Safe Yield to the Overlying Non-Agricultural Pool and a portion of the OSY to the Appropriative Pool. Pursuant to the Judgment, the City has appropriative rights to 20.742 percent of the OSY allocated to the Appropriative Pool (CBWM 2022, p. 10.1). The City has gained 53.338 percent of the Safe Yield assigned to the Overlying Non-Agricultural Pool (CBWM 2022, p. 4.1). The assigned share of the Safe Yield and OSY change depending on the Safe Yield set by the court.

The Judgment allocates the Safe Yield of the Chino Basin according to the three pools as described above (Appendix M, Paragraph 13). The members of each pool are then enjoined from producing water from the Chino Basin in excess of such allocated

[10] Judgment (1978) defines Operating Safe Yield (OSY) as, "The annual amount of groundwater which Watermaster shall determine, pursuant to criteria specified in Exhibit "I", can be produced from Chino Basin by the Appropriative Pool parties free of replenishment obligation under the physical solution herein."

amount "except pursuant to the provisions of the Physical Solution" (Appendix M, Paragraph 13(a)-(c)).

The Physical Solution of the Judgment is described in broad terms by Paragraphs 39 through 57 of the Judgment. Paragraph 45 provides the Chino Basin Watermaster with the authority to levy and collect assessments for the purchase of water necessary to balance the production by any party in excess of that party's allocated share of Safe Yield of the Chino Basin. Paragraphs 49 and 50 then describe the sources of water which are authorized to function as sources of replenishment water and methods by which water can be replenished to the Chino Basin. Exhibit H, Paragraph 7, of the Judgment describes the way in which costs for replenishment water will spread among the members of the Appropriative Pool.

The afore-cited paragraphs of the Judgment evince a clear expectation that parties, including the City/OMUC, would produce water in excess of their adjudicated production rights. The injunction in Paragraph 13 of the Judgment should thus be interpreted to mean that parties are enjoined from producing water in excess of their adjudicated rights except to the extent that they will pay a replenishment assessment.

The ability to produce water from the Chino Basin is accordingly not a matter of availability, as contemplated and sanctioned by the Judgment for the reasons discussed above, but rather a matter of cost. Water produced in excess of production rights will cost more than water produced within a party's production rights. Thus, the quantity and reliability of groundwater supplies under the Judgment for purposes of this Assessment is a matter of cost of the water produced from the Chino Basin rather than limitations on production which may otherwise operate to reduce the sufficiency of the groundwater supply.

In addition to the water supplies described in Section 3, OMUC has rights to groundwater held in the Chino Basin as described below (from Chino Basin Watermaster's (CBWM) *Approved 2022/2023 Assessment Package for Production year 2021/2022*, dated Nov. 17, 2022) and in **Table 4-1**:

- **Appropriative Right.** The City has appropriative rights to 20.742 percent of the OSY allocated to the Appropriative Pool. As of FY 21/22, the OSY is 40,834 AF; therefore, the City's assigned share is 8,469.8 AF (CBWM 2022, p. 10.1). To supplement the 2017 decrease in safe yield, the City currently receives an additional 1,866.8 AFY transferred from unproduced Agricultural Pool rights ("Safe Yield Reduction") (CBWM 2022, p. 16.1).

- **Overlying Non-Agricultural Right.** The City has purchased and has rights to 53.338 percent of the Safe Yield assigned to the Overlying Non-Agricultural Pool. The Safe Yield is 7,350.3 AF and as of FY 21/22, the City's assigned share is 3,920.6 AF (CBWM 2022, p. 4.1).

- **Land Use Conversions.** The City gains rights to additional Chino Basin groundwater as a result of land use conversions from agricultural to non-agricultural uses. This is expected to increase from development of Ontario Ranch; the total of which is adjusted annually by the Watermaster. As of FY 21/22, the City received 5,575.3 AF from land use conversions (CBWM 2022, p. 15.1).

- **Annual Early Transfers.** The Chino Basin Watermaster can approve an "Early Transfer" of water to the Appropriative Pool equal to the quantity of water not produced by the Overlying Agricultural Pool that is remaining after all land use conversions are satisfied, pursuant to the Peace Agreement.[11] The Early Transfer Water is annually allocated among the Appropriative Pool members in accordance with their pro-rata share of the initial Safe Yield. For the City, this is 20.742 percent of the "early transfer" water that the Watermaster may transfer

[11] In 2007, the parties to the Chino Basin Judgement approved the "Peace Agreement" which is a set of measures proposed by Chino Basin Watermaster to supplement the OBMP Implementation Plan. Focus for the measures were placed on achieving hydraulic control (reduction of groundwater discharge from the Chino North Management Zone to the Santa Ana River). To achieve hydraulic control, re-operation (controlled overdraft) of the groundwater basin is proposed. Strategically placed wells would be constructed in the basin and the groundwater would be pumped to the Desalter to improve the long-term reliability of the basin.

from the Overlying Agricultural Pool (OMUC 2020 UWMP, p. 6-10). The amount available for transfer changes from year to year but is projected to increase. In FY 21/22, the City received 4,065.0 AF as its share of Early Transfer (CBWM 2022, p. 16.1).

- **Groundwater Recharge Credits.** The City is entitled to water rights due to groundwater recharge with stormwater and recycled water in the Chino Basin. The credited amount is based on the volume recharged and therefore varies annually but is projected to increase over time. In FY 2018/2019, 2,544 AF of recycled water was recharged for the City. In FY 19/20 and FY 20/21, no recharge was credited to the City; however, in FY 21/22, 6400.7 AF of recycled water was credited to the City and included as part of the City's local supplemental storage account (OMUC 2020 UWMP, p. 6-11; CBWM 2022, p. 12.1).

- **Fontana Recycled Water Rights.** The City has a long-term contract to purchase up to 3,000 AFY of recharged recycled water rights from the City of Fontana (a copy of which is in Appendix N). The City of Fontana does not operate a water system. The amount purchased by OMUC each year will vary. In FY 2018/2019, the City purchased 2,157 AF of Fontana's recycled water entitlement. In FY 19/20 and FY 20/21 no recharged water rights were purchased (OMUC 2020 UWMP p. 6-12; CBWM 2021, p. 12.1). However, in FY 21/22, the City purchased 3,000 from City of Fontana and 327.3 AF of recycled water entitlement from the City of Montclair, which are included in the 6400.7 AF in the local supplemental account (OMUC, 2023).

- **Groundwater Storage Accounts.** The City has rights to store water in the Chino Basin (Appropriative and Overlying Non-Agricultural) and has been increasing its various storage accounts in recent years. The City holds water in both local storage accounts and supplemental accounts. Local storage accounts hold un-pumped OSY groundwater rights and stormwater that has

been recharged into the Chino Basin. Supplemental accounts hold both imported water and recycled water that has been recharged into the Chino Basin. As of June 30, 2022, the City has 108,912 AF (47,726.5 + 61,185.5) in storage pursuant to Appropriative rights (CBWM 2022, pp. 11.1, 12.1).

Table 4-1 Ontario Groundwater Rights Summary

Right	Current FY 2021-2022 (AF)	Future (AFY)	Notes
Carryover Beginning Balance	8,469.8	Varies	Varies annually.
Assigned Share of OSY[a]	8,469.8 (20.742% of OSY)	8,470 (20.742% of OSY)	OSY determined by Watermaster.
Safe Yield Reduction	1,866.8	Varies	Part of New Ag Pool Reallocation.
Land Use Conversions	5,575.3	16,602	Varies annually. Part of New Ag Pool Reallocation.
Annual Early Transfer	4,065.0	20.742% of Early Transfer	Subject to change. Part of New Ag Pool Reallocation.
Annual Production Right for Appropriative Pool Subtotal (AFY)	28,446.7	±37,672	
Annual Production Right for Overlying Non-Agricultural Pool (AFY)	3,767.3	At least 3,920.6 (53.338% of SY)	Actual Fiscal Year Production was 1,370.8 AF.
SAWCo (AFY)[(a)]	430 (295 shares)	At least 600	Entitlement. Volume per share subject to change.
Groundwater Storage Accounts	47,726.5 (Excess Carry Over Account)	Varies (Excess Carry Over Account)	Dependent on annual availability of un-pumped OSY water, stormwater, imported water, and recharged recycled water.
	61,185.5 (Local Supplemental Account)	Varies (Local Supplemental Account)	
Total Storage (AF)	108,912	±85,000	

Note: AF = acre-feet; AFY = acre-feet per year; OSY = operating safe yield; SY = safe yield.

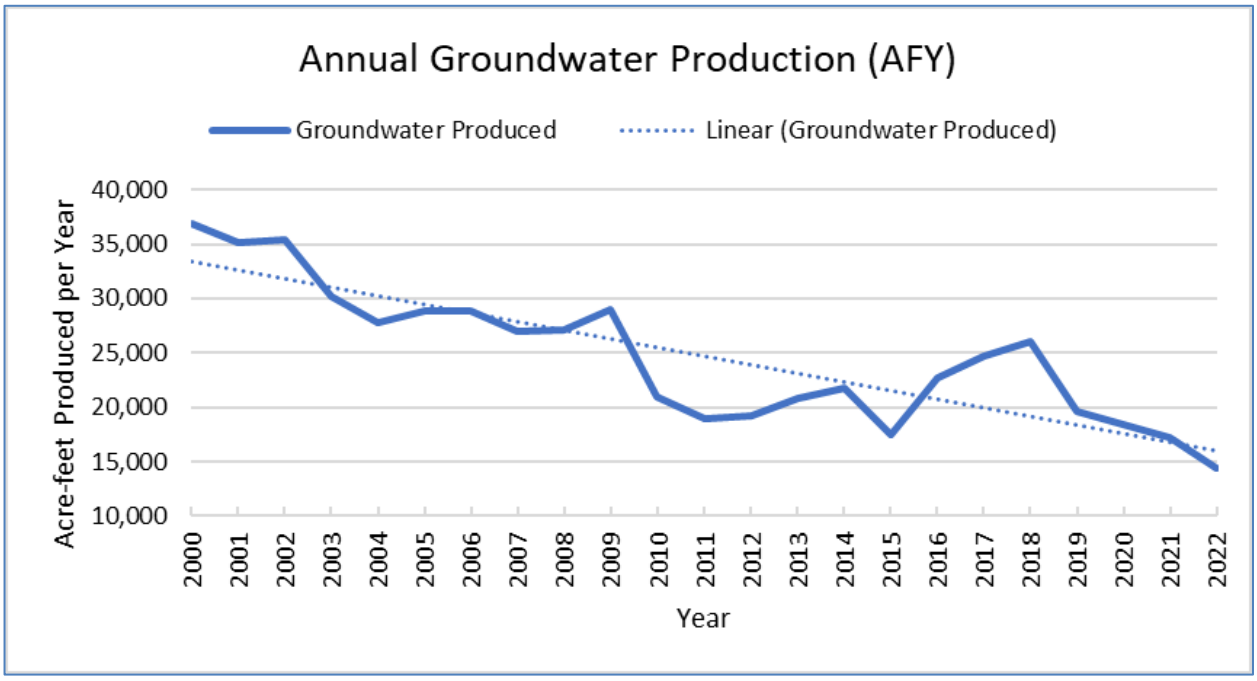
(a) OMUC 2020 UWMP, p. 6-8.

Source: *Chino Basin Watermaster Approved 2022/2023 Assessment Package for Production Year 2021/2022*, dated Nov. 17, 2022, pp. 4.1, 10.1,11.1, 15.1, 16.1, 20.1, 21.1 [CBWM 2022].

4.3. Recorded Use of Groundwater by City of Ontario (CWC Section 10910 (f)(3))

The City's groundwater supply currently comes from 17 active groundwater wells located throughout the OMUC service area within the Chino Basin. As of FY 21/22, 14,390.0 AF was produced which is a decrease from the prior two years (CBWM, p. 8.1). The recorded groundwater production has generally decreased from 36,842 AFY in 2000, as shown in **Chart 4-1.**

Chart 4-1 - Annual OMUC Groundwater Production, 2000 - 2022, (AFY)



(Sources: 2000-2009 from the *2012 Ontario Water Master Plan*; 2010 from *OMUC 2010 UWMP*; 2011-2020 from *OMUC 2020 UWMP*, p. 6-3; 2021 from CBWM 2021, p. 8.1; 2022 from CBWM 2022, p. 8.1.)

4.4. Projected Use of Groundwater by the City of Ontario (CWC Section 10910(f)(4))

The proposed Project will receive water from a combination of the City's supply sources including groundwater wells, imported water from WFA, treated groundwater from CDA, and recycled water from IEUA.

Projected groundwater use by OMUC will continue as noted in Table 3-3. The use of groundwater will continue to be dependent upon the cost of extracting, treating, and

transporting the water to customers. Groundwater from the Chino Basin will be utilized by OMUC either directly by pumping into its distribution system or by treating the groundwater (Wells 44 and 52) at the John Galvin Ion Exchange Plant and then pumping the treated groundwater into the City distribution system. The current and ultimate production capacity of OMUC wells is sufficient to meet current and ultimate demand (Table 3-4).

As shown in Table 4-1, the amount of water that OMUC expects to withdraw from the Chino Basin is well within appropriate right pursuant to the Chino Basin Adjudication of 1978 (Appendix M). In addition to its well production, OMUC will also purchase treated Chino Basin groundwater from CDA. OMUC has 1,500 AFY capacity rights in the Chino I Desalter and 7,033 AFY capacity rights in the Chino II Desalter. Projected use of groundwater via CDA is projected to remain at 8,533 AFY (OMUC 2020 UWMP, p. 6-6).

4.5. Sufficiency of Groundwater Basin (CWC Section 10910(f)(5))

The City's legal right to pump water in an amount necessary to meet all demands as sanctioned and protected by the Judgment as discussed above, is buttressed by several programs and projects directed at ensuring the sufficiency of groundwater supplies from the Chino Basin, particularly during dry years. An adjudicated water right has perhaps the most substantial indicia of reliability of any water right that currently exists in California. An adjudicated right is based upon long-term studies whose purpose it is to protect the long-term functionality of the water source. These rights are coordinated in an established and binding manner with all the other users of the Chino Basin and are overseen by Chino Basin Watermaster which has the authority to mandate and proscribe activities whose purpose is to protect the water source and maximize its long-term beneficial use.

All Chino Basin Watermaster processes are governed by Rules and Regulations and receive active oversight from the Court which, as noted above, retains continuing jurisdiction over the administration of the Judgment. Consequently, the sufficiency of

the groundwater is not only directed by rigorous Chino Basin Watermaster management processes but validated and ensured by continuing Court oversight.

The OBMP for the Chino Basin has guided the Chino Basin Watermaster's activities since its adoption in 1998. Chino Basin Watermaster-led basin management activities to ensure the maximization of safe yield and OSY of the Chino Basin include objectives, projects, and programs identified in the Peace Agreement and the OBMP. Progress is reported in annual reports, biennial, and triennial reports. The key programs include:

1) a comprehensive monitoring program.
2) a comprehensive recharge program.
3) development and implementation of a water supply plan for impaired areas of the Chino Basin.
4) development and implementation of a comprehensive groundwater management plan for Management Zone 1.
5) development and implementation of a regional supplemental water program.
6) development and implementation of cooperative programs with the California Regional Water Quality Control Board – Santa Ana Region and other agencies to improve Basin management.
7) development and implementation of a salt management program.
8) development and implementation of a groundwater storage program; and
9) development and implementation of storage and recovery programs.

As stated, the referenced elements of the OBMP collectively comprise a comprehensive regimen directed to ensuring and maximizing the long-term beneficial use of water in the Chino Basin. In particular, and specific to the location of current and future groundwater production facilities upon which the City relies or will rely to provide water to meet water demands within its service area, OBMP Program Element No. 3, "Develop and Implement Water Supply Plan for the Impaired Areas of the Chino Basin" and Program Element No. 5, "Develop and Implement Regional Supplemental Water

Program", address the sufficiency of groundwater from the Chino Basin. Fundamentally, the goal of Program Elements 3 and 5 is to (2020 OBMP, p. 6):

> *To maintain and enhance Safe Yield with a groundwater desalting program that is designed to replace declining agricultural groundwater pumping in the southern part of the basin with new pumping to meet increasing municipal water demands in the same area, to minimize groundwater outflow to the Santa River, and to increase Santa Ana River recharge into the basin.*
>
> *To improve the regional conveyance and availability of imported water and recycled waters throughout the basin.*

The achievements from the implementation of the 2000 OBMP for Elements 3 and 5 are summarized below (2020 OBMP, Appendix A, pp. 5 – 6).

> *Program Element 3 Develop and Implement Water Supply Plan for Impaired Areas (Groundwater Desalting): The objectives of this Program Element are to maintain and enhance the Safe Yield of the basin. The groundwater desalting program was designed to replace declining agricultural groundwater pumping in the southern part of the basin with new groundwater pumping to meet increasing municipal water demands in the same area. The new wells used in the groundwater desalting program were constructed in strategic locations to minimize groundwater outflow to the Santa Ana River and to increase the Santa Ana River recharge into the basin. In 2000, the groundwater desalting program included a 6,000 AFY treatment plant and a series of wells constructed in the southern part of the Chino Basin near the Chino Airport. Under the OBMP, as of 2018, the desalting program has grown to two treatment plants and additional wells that in aggregate pump and treat about 30,000 AFY degraded groundwater, and the program will reach the OBMP objective of 40,000 AFY in 2019. The groundwater desalting program facilities are owned by the Chino Basin Desalter Authority (CDA).*

> *Program Element 5: Develop and Implement Regional Supplemental Water Program (Recycled Water Reuse): The objective of this Program Element is to improve the regional conveyance and availability of imported and recycled waters throughout the basin. Since 2000, the IEUA has constructed and operated a recycled water conveyance system throughout the basin enabling it to provide recycled water to its member agencies. Recycled water deliveries grew from about 3,400 AFY in 2000 to about 34,000 AFY in 2017. The recycled water provided by the IEUA has replaced a like amount of groundwater and imported water that would have been otherwise been used for non-potable purposes. Much of the post-2000 increase in supplemental water storage in the Chino Basin is attributable to the increased availability of recycled water. Recycled water is more reliable than imported water, and thus using it in lieu of imported water has improved the sustainability of the Chino Basin and water supply reliability. Improvements in the regional conveyance and availability of imported water were not achieved.*

As indicated in the foregoing OBMP text, the City overlies groundwater supplies in the southern part of the Chino Basin which must be pumped for purposes of meeting new demands, maintaining safe yield, and to protect water quality in the Santa Ana River. As agricultural production in the southern part of the Chino Basin has declined, it is necessary for these reasons to increase production for municipal uses. This is being achieved through CDA's Chino I and Chino II Desalters, of which the City has a contractual right to purchase 8,533 AFY pursuant to the 2001 "Joint Exercise of Powers Agreement Creating the Chino Basin Desalter Authority" and subsequent agreements. Thus, not only was increased Chino Basin water production by the City foreseen in the OBMP but sanctioned and encouraged for purposes of achieving OBMP objectives.

The sufficiency of the groundwater supply that is available to OMUC is assured due to the abundance of groundwater in the central and southern portion of the Chino Basin, OBMP objectives that prioritize and assure production from the southern Chino Basin,

coupled with desalting and ion-exchange treatment facilities that enable the use of this abundant supply for municipal (potable) purposes. As indicated in the quoted text of the OBMP, southern basin production, where the City is partially located, is the linchpin of several critical OBMP objectives. Thus, the sufficiency of groundwater is heightened and prioritized by the necessity of continued pumping from the southern Chino Basin under the OBMP which is administered by the Chino Basin Watermaster and ultimately enforced by continuing court jurisdiction over the Judgment.

The other referenced OBMP Program Elements are collectively directed to ensuring the sufficiency of Chino Basin groundwater supplies, particularly during dry years, and comprehensively address water quality and quantity, thus maximizing beneficial use over the long-term. Sufficiency of groundwater from the Chino Basin is further assured for the following reasons:

- IEUA is a member agency of MWD, which provides imported water from the State Water Project for direct use by parties to the Judgment in the Chino Basin and for Chino Basin recharge purposes (when supplies are available). IEUA has also reviewed the sufficiency of supplies for its service territory that includes the Chino Basin in connection with its 2020 UWMP.

- IEUA's UWMP is consistent with, and reiterative of, OBMP projects and programs (see Section 4 of IEUA 2020 UWMP in Appendix E). IEUA anticipates increased limitations for imported water for direct and recharge use while noting reductions during dry years (due to increased reliance on groundwater from the Chino Basin) and in the higher amount otherwise required in the absence of OBMP projects and programs. The UWMP also analyzes the sufficiency of water supplies for single and multiple year drought scenarios and concludes the region is expected to meet 100 percent of its dry year demand under every scenario. Key assumptions included:

- Reliance on assurances provided by MWD in its 2020 UWMP that it could meet 100 percent of projected supplemental full-service water supply demands through 2040;
- Implementation of MWD's Chino Basin DYY Storage Program consistent with the contractual shift obligations of the participating agencies of up to 33,000 AF in a twelve-month period; and
- Sustain per capita water use reductions of 20 percent.

IEUA concluded in its 2020 UWMP that the projected available water supply will meet projected water demand due to diversified water supply and water conservation measures. Based on IEUA water supply projections, there are sufficient water supplies to meet normal year water demands, single dry year and multiple dry year demands (IEUA 2020 UWMP, p. 7-7).

CWC section 10631(j) provides that urban water suppliers that rely upon a wholesale agency for a source of water, such as IEUA, may rely upon water supply information provided by the wholesale agency in fulfilling UWMP informational requirements.

IEUA's independent analysis of contemporary regional water conditions in conjunction with MWD's most recent report, provide additional and reliable assurances concerning the sufficiency of imported water supplies that comprise a portion of overall Chino Basin supply sufficiency.

The City's participation in the DYY Storage Program described in Section 3, along with future water storage and recovery projects will drought-proof the Chino Basin and all other appropriative pool members from imported water shortages. This program is consistent with OBMP Program Element No. 9, "Develop and Implement Storage and Recovery Program." Benefits to the Chino Basin associated with this program include the construction of facilities to enhance imported water deliveries and the production of water from the Chino Basin. Further demonstrating the sufficiency of Chino Basin groundwater is MWD's DYY program to use the Chino Basin for dry year supply purposes, thus underscoring that sufficient Chino Basin groundwater is available during

dry years not only for local use by agencies such as the City but also in connection with MWD's regional reliability programs.

The sufficiency of groundwater supplies available to OMUC is assured because of the OBMP programs overseen by the Chino Basin Watermaster and conducted under the auspices of continuing Court jurisdiction that specifically direct and assure the long-term production of water pursuant to the City's legal rights to produce such water necessary to meet ultimate water demands.

Conclusion

The City's total annual groundwater production has held relatively stable over the past 10 years at roughly 20,000 AFY (OMUC 2020 UWMP, p. 6-3). Production capacity meets current demands and is projected to increase to meet ultimate demand. The current (FY 21/22) water supply utilized by the City totals approximately 33,672 AFY (potable) and 9,593 AFY (recycled water) (Table 3-2). Currently, the City's water rights in the Chino Basin as recorded by the Chino Basin Watermaster total approximately 32,214 AF (Annual Production Rights for Non-Ag Pool plus Appropriative Pool), with an additional 108,912 AF in storage (Table 4-1). Although annual fluctuations will occur, the City's rights are projected to increase over the next 20 years due to more land use conversions and credits from recharge.

The water supplies available to OMUC currently meet and exceed citywide water demands. Groundwater production by OMUC is currently less than their existing rights and within their production capacity. Regardless, OMUC has the means and right to exceed their groundwater allocation in the Chino Basin when required to meet demand pursuant to the Judgment. Further, OMUC has rights to water held in storage that would supply all City demands for more than two years. In addition to groundwater, OMUC can supply water to the Project purchased from the WFA that is within their existing entitlements and capacities.

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SECTION 5 - PRIMARY ISSUE FOR ASSESSMENT

The lead agency for a proposed project …shall determine, based on the entire record, whether projected water supplies will be sufficient to satisfy demands of the project, in addition to existing and planned future uses (CWC section 10911). The lead agency is expected to approve or disapprove the project based on several factors, including but not limited to the WSA.

Law

CWC Section 10910:

> (g) (1) *Subject to paragraph (2), the governing body of each public water system shall submit the assessment to the city or county not later than 90 days from the date on which the request was received. The governing body of each public water system, or the city or county if either is required to comply with this act pursuant to subdivision (b), shall approve the assessment prepared pursuant to this section at a regular or special meeting.*
>
> *(2) Prior to the expiration of the 90-day period, if the public water system intends to request an extension of time to prepare and adopt the assessment, the public water system shall meet with the city or county to request an extension of time, which shall not exceed 30 days, to prepare and adopt the assessment.*
>
> *(3) If the public water system fails to request an extension of time, or fails to submit the assessment notwithstanding the extension of time granted pursuant to paragraph (2), the city or county may seek a writ of mandamus to compel the governing body of the public water system to comply with the requirements of this part relating to the submission of the water supply assessment.*

CWC Section 10911:

> (b) *The city or county shall include the water assessment provided pursuant to Section 10910, and any information provided pursuant to subdivision (a), in any*

environmental document prepared for the project pursuant to Division 13 (commencing with Section 21000) of the Public Resources Code.

(c) The city or county may include in any environmental document an evaluation of any information included in that environmental document provided pursuant to subdivision (b). The city or county shall determine, based on the entire record, whether projected water supplies will be sufficient to satisfy the demands of the project, in addition to existing and planned future uses. If the city or county determines that water supplies will not be sufficient, the city or county shall include that determination in its findings for the project.

The lead agency is expected to review the WSA and decide whether additional water supply information is needed for its consideration of the proposed Project.

5.1 Findings

Whereas:

1. The City of Ontario Municipal Utilities Company (OMUC) has been identified as the water supplier for the proposed *Euclid Mixed Use Specific Plan* ("Project"). The proposed Project will develop a former agricultural property into a combination of 53.06 acres of Business Park with a maximum building square footage of 1,386,776 sf; 19.03 acres of Mixed Use Retail and Office, and Mixed Use High Density Residential with a maximum of 466 dwelling units; and 12.01 acres of Open Space-Non Recreational.
2. A previous WSA/WV was prepared in 2004 for the 8,200-acre New Model Colony (now called Ontario Ranch) that includes the Project site; however, the City and OMUC no longer consider it valid.
3. The estimated potable water demand for the proposed Project is 205 AFY and the recycled water demand is 135 AFY for a total water demand of 340 AFY.
4. The City's 2020 Water Master Plan included in its projections the water demand of the property according to the City General Plan land use plan, which this

report estimates as 365 AFY of potable water and 94 AFY of recycled water for a total demand of 459 AFY. The water demand projections in the 2020 UWMP are consistent with the water demand projections in the 2020 Water Master Plan.

5. Because the water demand of the Project is less than the water demand according to the City's prior land use designations for the site, it can be assumed the Project was accounted for in the 2020 UWMP dated July 2021 and adopted by the Ontario City Council by Resolution 2021-059 on June 15, 2021 (Appendix A).

6. Furthermore, as a result of the land use conversion of the Project site from agricultural to non-agricultural, the City will receive a credit to its water supply portfolio from the Chino Basin Watermaster of 2.0 acre-feet per acre converted for a total of 168.2 acre-feet per year (84.1 acres x 2.0 AFY) of groundwater rights.

7. OMUC has an Annual Production Right of 28,446.7 AF currently in the Chino Groundwater Basin as a member of the Appropriative Pool, as well as groundwater storage accounts that total 108,912 AF (Table 4-1). The water supply production capacity from City wells is currently 62,269 AFY,[12] which is projected to increase to 110,337 AFY to meet demand (Table 3-4 and 3-5). OMUC produced 18,628 AF of groundwater in FY 21/22 (Table 3-2).

8. In addition to Chino Basin production rights, OMUC holds shareholder entitlements to potable water from SAWCo in the amount of 600 AFY, and capacity rights to imported water from the WFA in the amount of approximately 28,000 AFY. OMUC also has capacity rights to potable water from the CDA in the amount of 8,533 AFY (Table 3-2 and 3-4). In FY 21/22, OMUC purchased 430 AF from SAWCo, 5,687 AF from WFA, and 8,927 AF from CDA (Table 3-2).

[12] Assuming wells operate 24 hours per day for 365 days per year.

9. OMUC is entitled to the recycled water generated by IEUA from the City's annual share of sewer flows. In FY 21/22, the City delivered 13,199 AF to IEUA wastewater treatment plants, of which 9,593 AF was put to non-potable direct recycled water use (Table 3-2).
10. As of CY 2022, citywide potable water demands were down from the prior year at approximately 31,130 AF and recycled water demand increased from the prior year to 10,066 AF, respectively (Table 2-2); ultimate potable and recycled water demands are projected to be 57,609 AFY and 16,059 AFY, respectively (Table 2-3).
11. The current production capacities are greater than needed to meet the average day demands under citywide buildout conditions. Additional wells are planned to supply the anticipated ultimate maximum day demand.
12. OMUC has forecasted excess water supplies will be available to meet citywide demand during single-dry and multiple dry water years over the next 20 years (Table 3-9 and Table 3-10).
13. Water demands for agricultural land uses in Ontario Ranch are planned to reduce to zero by 2040 with land use conversions and water demands for industrial uses in Ontario Ranch, which may include some manufacturing are expected to increase and partly replace former agricultural uses.
14. Based on the evidence provided herein, the total projected potable and recycled water supplies available to the OMUC during normal, single dry, and multiple dry water years over a 20-year projection will be sufficient to meet the projected water demand associated with the proposed Project in addition to the water supplier's existing and planned future uses, including agricultural and manufacturing uses.

SECTION 6 - REFERENCES

AKM 2011	AKM Consulting Engineers, *City of Ontario 2010 Urban Water Management Plan*. April 2011.
AKM 2020	AKM Consulting Engineers, *City of Ontario 2020 Water Master Plan Update.* June 2020.
CBWM 2021	Chino Basin Watermaster, *Approved 2021/2022 Assessment Package (Production Year 2020/2021)*, Nov. 18, 2021.
CBWM 2022	Chino Basin Watermaster, *Approved 2022/2023 Assessment Package (Production Year 2021/2022)*, Nov. 17, 2022.
CBWM 44th Annual Report	Chino Basin Watermaster, 44th Annual Report, Fiscal Year 2020-2021.
CBWM 45th Annual Report	Chino Basin Watermaster, 45th Annual Report, Fiscal Year 2022-2022.
CDA 2020	Stetson Engineers, Inc. *Chino Basin Desalter Authority 2020 Urban Water Management Plan.* June 2021. (Appendix G)
DWR 2003	California Department of Water Resources, *Guidebook for Implementation of Senate Bill 610 and Senate Bill 221 of 2001 to assist water suppliers, cities, and counties in integrating water and land use planning.* October 8, 2003.
DWR Bulletin 118	Department of Water Resources. *8-002.01 Upper Santa Ana Valley – Chino Bulletin 118 Basin Boundaries.* Dated March 5, 2018.
DYY 2014	*Amendment No. 8 to Groundwater Storage Program Funding Agreement No. 49960 By and Among The Metropolitan Water District of Southern California and Inland Empire Utilities Agency and Chino Basin Watermaster.* September 17, 2014. (Appendix J)
EMUSP	City of Ontario. *Draft Euclid Mixed Use Specific Plan,* December 2021.
Fontana 2008	*Agreement by and between the City of Ontario and the City of Fontana regarding transfer of right of first purchase of recharged reclaimed water.* Dated Jan. 15, 2008. (Appendix N)
IEUA 2016 IRWP	Inland Empire Utilities Agency. *Integrated Water Resources Plan: Water Supply & Climate Change Impacts 2015-2040*. Dated 2016. (Located in Appendix B to the IEUA 2020 UWMP.)
IEUA/WFA 2015	Arcadis. *Inland Empire Utilities Agency and Water Facilities Authority 2015 Urban Water Management Plan Final*. June 2016. (Appendix C)
IEUA 2020	Kennedy Jenks. *Inland Empire Utilities Agency 2020 Urban Water Management Plan*. June 2021 (Appendix C)
IEUA Resolution No. 2014-12-1	*Purchase Order for System Water to be Provided by The Metropolitan Water District of Southern California (Purchaser: Inland Empire Utilities Agency) and IEUA Resolution No. 2014-12-1.* Effective January 1, 2015. (Appendix F)
JCSD 2014	*Amendment Number 1 to Agreement by and between City of Ontario and Jurupa Community Services District Establishing an Operational Plan for Metropolitan Water District/Chino Basin Groundwater Storage Program, Providing for Water Supply to Ontario's New Model Colony and Interconnection to Increase Water Supply Reliability.* November 21, 2014. (Appendix L)

Judgment	Judgment, *Chino Basin Municipal Water District v. City of Chino, et al.,* San Bernardino Ct. No. 164327 (filed Jan. 30, 1978). Includes amendments thereto. (Appendix M)
MWD	The Metropolitan Water District of Southern California, *2020 Urban Water Management Plan*. June 2021. (Appendix D)
OBMP 1999	Wildermuth Environmental, *Optimum Basin Management Program Phase I report prepared for Chino Basin Watermaster*. August 19, 1999.
OBMP 2020	Wildermuth Environmental, *2020 Optimum Basin Management Program Update Report,* January 2020.
OMUC 2020 UWMP	Stetson Engineers, *City of Ontario 2020 Urban Water Management Plan* (Appendix A)
OMUC(a)	Ontario Municipal Utility Company. *Personal communication with Christopher Quach, P.E., Senior Associate Engineer, information from "FY 20/21 Production Spreadsheet".* May 2, 2022.
OMUC(b)	Ontario Municipal Utility Company. *Personal communication with Christopher Quach, P.E., Senior Associate Engineer, information from "FY 20/21 IEUA RW Reconciliation Spreadsheet".* May 2, 2022.
OMUC 2023	Ontario Municipal Utility Company. *Personal communication with Alexis Mascarinas, EIT, Associate Engineer,* information from *"OMUC 2022 Internal Billing System Data and internal IEUA recycled water reconciliation document".* March 15, 2023.
Ord. 2689	Ontario Municipal Code, *Chapter 8C: Recycled Water Use*, effective Jun. 17, 1999.
Ord. 3027	Ontario Municipal Code, *Chapter 8A: Water Conservation Plan*, effective Oct. 1, 2015.
Ord. 99-07-02	*Ordinance No. 99-07-02 Ordinance of the Water Facilities Authority-JPA Repealing Ordinance 96-09-01.* (Appendix H)
SAWCO 2021	Water Systems Consulting. *San Antonio Water Company 2020 Urban Water Management Plan.* September 2021. (Appendix H)
Stantec	Stantec Consulting Services, Inc. *Recycled Water Master Plan Update for City of Ontario Municipal Water Utilities Company*. Final June 22, 2020.
WEBB 2004	Albert A. Webb Associates, *Water Supply Assessment and Written Verification of Sufficient Water Supply for the New Model Colony*. October 27, 2004.
WEI 2020	Wildermuth Environmental, Inc. *2020 Safe Yield Recalculation Final Report* prepared for the Chino Basin Watermaster. May 15, 2020.
WFA 1985	*Installment Purchase Agreement Relating to Water Facilities Authority Water Treatment Plant by and between Water Facilities Authority, as Seller and City of Ontario, as Purchaser*. Dated as of October 1, 1985. (Appendix J)
WFA 2020	Stetson Engineers. *2020 Urban Water Management Plan for Water Facilities Authority*. June 2021 (Appendix F)

SECTION 7 - SPREADSHEETS

Policy Plan Used for 2020 UWMP Demand Projections[1]		Current Water Demand Factors[2]			Potable and Recycled Water Demands (GPD and AFY)				
Land Use Designation	Acres (AC)	Corresponding TOP Land Use	Potable Water Demand Factor (GPD/AC)	Recycled Water Demand Factor (GPD/AC)	Potable Water Demand (GPD)	Potable Water Demand (AFY)	Recycled Water Demand (GPD)	Recycled Water Demand (AFY)	Total Water Demand (AFY)
Office Commercial (0.75 FAR)	40.00	Office Commercial (w/ RW)	2,500	1,500	100,000	112.01	60,000	67.21	179.22
Medium Density Residential (11.1 - 25 du/ac)	32.00	Medium Density Residential (w/ RW)	6,690	750	214,080	239.80	24,000	26.88	266.68
Open Space-Non Recreational	12.01	Open Space Non-Recreational (w/ RW)	1,000	0	12,010	13.45	0	0.00	13.45
Total Business Park	**84.01**	**-**	**-**	**-**	**326,090**	**365.27**	**84,000**	**94.09**	**459**

FAR = floor to area ratio.

UWMP = Urban Water Management Plan; WMP = Water Master Plan; TOP = The Ontario Plan; DU = dwelling unit; AC = acre; gpd = gallons per day; AFY = acre-feet per year.

1. Source: "Figure 1.5 Existing and Proposed Policy Plan Land Use Designation" from page 8 of "City of Ontario Request for Proposals for Preparation of an Environmental Impact Report for the Euclid Mixed Use Specific Plan"

2. Source is Appendix E and Appendix K of 2020 Ontario UWMP ("City of Ontario Water Master Plan Update" (AKM), June 2020, pp. 4-10-4-11; "Recycled Water Master Plan Update" (Stantec), June 22, 2020, p. 5.26.)

Planning Area (PA)	Proposed Land Use[3]	Proposed Maximum Dwelling Units (DU)	Proposed Acres (AC)	Proposed Maximum Square Footage (SF)	Proposed Density (DU/AC)	Corresponding TOP Land Use	TOP Max Density (DU/AC)	Potable Water Demand Factor (GPD/AC)	Recycled Water Demand Factor (GPD/AC)	Potable Water Demand (GPD)	Potable Water Demand (AFY)	Recycled Water Demand (GPD)	Recycled Water Demand (AFY)	Total Water Demand (AFY)
1	Business Park	-	24.60	642,946	-	Business Park (w/ RW)	-	1,800	1,200	44,280	49.60	29,520	33.07	82.67
2	Business Park	-	28.46	743,831	-	Business Park (w/ RW)	-	1,800	1,200	51,228	57.38	34,152	38.26	95.64
Total Business Park		**-**	**53.06**	**1,386,777**	-	-	-	-	-	**95,508**	**107**	**63,672**	**71**	**178**
3	Mixed Use [4] [5] [6]	Office	1.90	124,146	-	MU-Office (w/ RW)	-	2,500	1,500	4,750	5.32	2,850	3.19	8.51
		Retail	3.81	165,964		MU-Non-Office (w/ RW)	-	1,800	1,500	6,858	7.68	5,715	6.40	14.08
		Residential	13.32	-	35	MU-High Density Residential (w/ RW)	40	4,800	1,500	63,936	71.62	19,980	22.38	94.00
Total Mixed Use		**466**	**19.03**	**290,110**	-	-	-	-	-	**75,544**	**85**	**28,545**	**32**	**117**
4	Open Space-Non Recreational[7]	-	6.28	-	-	Open Space Recreational (w/ RW)	-	1,000	2,350	6,280	7.03	14,758	16.53	23.57
5	Open Space-Non Recreational(7)	-	5.73	-	-	Open Space Recreational (w/ RW)	-	1,000	2,350	5,730	6.42	13,466	15.08	21.50
Total Open Space-Non Recreational		**-**	**12.01**	**-**	-	-	-	-	-	**12,010**	**13**	**28,224**	**32**	**45**
TOTAL		**466**	**84.10**	**1,676,887**	-	-	-	-	-	**183,062**	**205.06**	**120,441**	**134.91**	**340**

w/RW = with recycled water; UWMP = Urban Water Management Plan; WMP = Water Master Plan; TOP = The Ontario Plan; DU = dwelling unit; AC = acre; gpd = gallons per day; AFY = acre-feet per year.

1. Source: "Euclid Mixed Use Specific Plan Land Use Development Table" page 3-3 of the DRAFT "Euclid Mixed Use Specific Plan". Potable water demand is included for OS-NR planning areas as conservative assumption.

2. Source is Appendix E and Appendix K of 2020 Ontario UWMP ("City of Ontario Water Master Plan Update" (AKM), June 2020, pp. 4-10-4-11; "Recycled Water Master Plan Update" (Stantec), June 22, 2020, p. 5.26.)

3. Allowable Floor-to-Area Ratios (FAR): 0.6 for Business Park; 1.5 for Office; and 1.0 for Retail (EMUSP, p. 3-3)

4. PA 3 allows a combination of Office, Retail, and High Density Residential Development. Traffic calculations have assumed 10% Office, 20% Retail, and 70% Residential. Assume a maximum of 124,146 SF office, 165,964 SF retail, and 466 dwelling units. (EMUSP, p. 3-3)

5. Specific Plan proposes a minimum of 20,000 SF of Retail within PA 3. (EMUSP, p. 3-3)

6. Maximum density allowed may exceed 35 du/ac on any parcel as long as a maximum of 466 du is not exceeded within the Specific Plan area. (EMUSP, p. 3-3)

7. The OS-Non Recreational land uses are calculated using the OS-Recreational unit water demand factors to conservatively plan the water use in these areas.

WRITTEN VERIFICATION OF SUFFICIENT WATER SUPPLY

FOR EUCLID MIXED USE SPECIFIC PLAN

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SB 221 Written Verification of Sufficient Water Supply

1.1 Introduction

Senate Bill 221 (SB 221) was enacted in 2001 and became effective as of January 1, 2002. SB 221 establishes the relationship between the Water Supply Assessment (WSA) prepared for a project pursuant to Senate Bill 610 (SB 610), and the project approval under the Subdivision Map Act. SB 221 amends Section 11010 of the Business and Professional Code, and amends Section 65867.5 to add Sections 66455.3 and 66473.7 to the California Government Code.

Pursuant to Government Code Section 66473.7, the public water supplier must provide a written verification of sufficient water supply (WV) prior to the approval of a tentative subdivision map, or a parcel map for which a tentative map was not required, or a development agreement for a subdivision of property of more than 500 dwelling units, except as specified, including the design of the subdivision or similar type of improvement.

1.2 Purpose

The purpose of the WV is to provide the legislative body of a city, county, or the designated advisory agency with written verification from the applicable public water supplier that a sufficient water supply is available, or, in addition, a specified finding is made by the local agency that sufficient water supplies are, or will be, available prior to completion of the project.

The WV shall be supported by substantial evidence, which may include relevant portions of an applicable Urban Water Management Plan (UWMP) or a WSA prepared per SB 610. Many of the requirements for SB 610 compliance will satisfy the requirements of SB 221. There are four factors to be considered in a WV which are not

required in a WSA as specified by Government Code Section 66473.7. Those four factors, which are specifically addressed in this WV are as follows:

1. Historical water supplies for at least 20 years;

2. Urban Water Shortage Contingency Analysis prepared for the water supplier's UWMP;

3. Supply reduction for "specific water use sector" per water supplier's resolution, ordinance, or contract; and

4. Amount of water that can be reasonably relied upon from specific supply projects, subject to the determinations outlined in Government Code Section 66473.7.

1.3 Project Description and Water Demand

This WV has been prepared in conjunction with a WSA for the *Euclid Mixed Use Specific Plan* ("Project"). The Project encompasses 84.1 acres within the City of Ontario's 8,200-acre Ontario Ranch. *Annexed in 1999, the presently agricultural Ontario Ranch is planned to be developed into residential, commercial, industrial, and public uses* (UWMP, p. 3-1). The proposed Project will redevelop the former agricultural property into a combination of Business Park, Open Space-Non Recreational, and Mixed Use Retail, Office, and High Density Residential with up to 466 dwelling units (see WSA Figure 3 – Proposed Land Use Plan).

The City of Ontario Municipal Utilities Company (OMUC)[1] is the water supplier for the Project and for the City. OMUC commissioned a WSA and WV from Albert A. Webb Associates (WEBB) on February 28, 2023. The purpose of preparing this WV for the Project is to preclude the need for individual "Written Verification" letters being prepared for the individual residential development projects that will qualify for a WV within the Project area. Because the Project has less than 500 units, which is the

[1] OMUC is a department of the City of Ontario and the terms may be used interchangeably herein.

criteria set in Section 66473.7(a), a WV per SB 221 is not required; however, OMUC has opted to prepare one nonetheless since the margin for triggering a WV is so small in this instance (34 units).

The key question for this WV to address per SB 221 is whether the water supplier is able to provide a sufficient water supply based upon an analysis as to whether water supplies available during normal, single-dry, and multiple-dry years within a 20-year projection will meet the projected demand associated with the proposed subdivision(s), in addition to existing and planned future uses, including, but not limited to, agriculture and industrial uses (DWR 2003).

1.4 Verification of Sufficient Water Supply

A detailed evaluation of OMUC's water supply was performed under the attached WSA for the Project. Attached to the WSA is the adopted City of Ontario 2020 UWMP which addresses normal, single dry, and multiple dry year conditions over the 20-year period from 2020 through 2040 (WSA Appendix A). The 2020 UWMP determined that sufficient water supply exists to support the demands of the OMUC service area. The WSA determined that the water demand of the Project is less than the water demand for the same site that was assumed in the 2020 UWMP; therefore, the water demand for the Project was accounted for in the 2020 UWMP and the WSA concludes that sufficient water supply exists to support the Project.

20-Year Water Supply Availability

OMUC has been able to meet all water demands with its available water supplies for the past 20 years. Table 3-2 of the attached WSA shows the recorded water supplies from 2000-2022 that were utilized to meet the demand within OMUC's service area. A supply source that is available to OMUC but is not included in Table 3-2 are the groundwater storage accounts to which OMUC has rights to store water in the Chino Basin. As of FY 21/22, the City has approximately 108,912 AF held in storage (CBWM, pp. 11.1, 12.1).

Urban Water Shortage Contingency Analysis (Plan)

The urban water shortage contingency analysis (aka Water Shortage Contingency Plan [WSCP]) prepared for the most recent UWMP is contained within Chapter 8 of Ontario's 2020 UWMP (Appendix A). The WSCP is based on a draft Water Conservation Plan located in Appendix N of the 2020 UWMP that is an update of the City's Ordinance No. 3027. The WSCP includes stages of action, prohibitions on end uses, penalties and enforcement measures, determination of water shortage reductions, revenue and expenditure impacts, and catastrophic supply interruption.

The 2020 WSCP and draft Water Conservation Plan are consistent with the stringent emergency conservation regulations mandated by the State Water Resources Control Board in response to statewide drought conditions. The purpose of the ordinance and the Water Conservation Plan are to minimize the potential for a water shortage through the practice of water conservation, and to minimize the effect of a shortage of water supplies on the water customers of the City. In addition, it is the intent of the ordinance and the Water Conservation Plan to adopt provisions that will significantly reduce the inefficient consumption of water, thereby extending the available water resources necessary for domestic, sanitation, and fire protection of the community to the greatest extent possible (Municipal Code Sec. 6-8.21).

The 2020 WSCP and draft Water Conservation Plan describe the methods to respond to a water supply shortage of more than 50 percent. Six stages of conservation are described (Stages 1-6) with increasing conservation requirements and penalties depending on the severity of the shortage (UWMP, p. 8-8).

Supply Reduction for Specific Water Use Sector

OMUC's 2020 WSCP and draft Water Conservation Plan establish voluntary and mandatory water conservation requirements which shall take effect upon implementation. During a water shortage crisis, certain mandatory restrictions on water use will be imposed on the public. The voluntary water use prohibitions apply at all times. Stage 1 to 6 prohibitions will be progressively implemented according to the

severity of the water crisis (OMUC 2020 UWMP, Appendix N). The restrictions and prohibitions on end users that correspond to Stages 1 to 6 are outlined in Table 8-2 of the City's 2020 UWMP (p. 8-3). OMUC does not have a water supply allocation plan. No single water use sector is identified in the 2020 WSCP or draft Water Conservation Plan for supply reductions in the event of a water shortage crisis.

Amount of Water That Can Be Reasonably Relied Upon from Specific Supply Project(s)

This requirement of the WV pertains to projected water supplies that the water supplier can reasonably rely on that are not currently available to the public water system. All projected water supplies are currently available to OMUC but may not be fully utilized to date. Descriptions of the supplies available to OMUC are in Section 3 of the attached WSA.

1.5 Substantial Evidence of Verification of Sufficient Water Supply

This WV does not rely on projected water supplies that are not currently available to OMUC. The water supplies that OMUC will continue to rely on that are projected to be sufficient to meet current and future needs are described in Section 3 of the attached WSA. Because projected supply sources are currently available to OMUC, supporting information pursuant to Gov. Code section 66473.7 is not provided herein. This would include written contracts or other proof of valid rights to supplies under development, an adopted capital outlay program to finance delivery of supplies under development, permits to construct supply infrastructure for supplies under development, and regulatory approvals for conveyance or delivery of supplies under development. Copies of the rights, contracts, and other entitlements to water supplies available to OMUC are provided in the appendices to the attached WSA.

1.6 Impacts to Agricultural and Industrial Users

Gov. Code section 66473.7 requires this WV to contain a description of reasonably foreseeable impacts of the proposed subdivision on the availability of water resources

for agricultural and industrial uses within the water supplier's service area that are not currently receiving water from the water supplier but are utilizing the same sources of water. Water used by industrial and agricultural users that is not provided to them by OMUC would come from their private wells to access the Chino Groundwater Basin, which OMUC also utilizes. Adverse impacts to such entities as a result of the Project is not anticipated because the Chino Basin is an adjudicated basin with a court appointed Watermaster who monitors and enforces the provisions of the 1978 Judgment and subsequent orders of the court. As discussed in Section 4 of the attached WSA, the Watermaster develops and implements an Optimum Basin Management Program to sustainably manage the basin for all users.

In regard to agricultural use, the *Ontario General Plan Amendment for the New Model Colony* [Ontario Ranch] (1998) projects a nearly 100 percent conversion of existing agricultural land to non-agricultural uses, except for approximately 200 acres of land that are owned by the County of San Bernardino and managed by the Southern California Land Foundation. This does not include the Euclid Mixed Use Specific Plan. As planned for by the City and discussed in the attached WSA, agricultural properties are projected to decrease with the conversion of Ontario Ranch to non-agricultural activities (WSA Figures 5 and 6). Table 3-7 of the attached WSA also forecasts declines in recycled water use by agriculture, reaching zero use by 2040. As of 2020, there are 20 agricultural recycled water irrigation sites (2020 Annual Report to DDW). The proposed subdivision is not anticipated to have adverse impacts on the shared water supply source because the 2020 UWMP has incorporated planned future declines in agricultural use in the water demand projections, which includes declines in private wells and conversion to OMUC supplies.

In regard to industrial uses, they are currently (2020) the third most common land use type in the City (after Agricultural, Multi-Use at 21.2 percent, and Residential at 19.3 percent), making up approximately 5,498 acres or 17.3 percent of the total (AKM 2020, p. 2-5). The ultimate citywide land use plan (*The Ontario Plan 2010)* on which the current water master plan and UWMP are based, plans for an increase of business

parks and industrial uses to cover about 7,818 acres or 24.6 percent at buildout (AKM 2020, p. 2-7). Further, the 2020 UWMP citywide projections in the attached WSA show potable water use by industrial uses increasing from 2,078 AFY in 2020 (WSA Table 2-2) to 3,728 AFY in 2040 (WSA Table 2-3) and industrial use of recycled water is projected to increase from 986 AFY in 2020 to 3,680 AFY in 2045 (WSA Table 3-7). As of 2020, there are three industrial recycled water sites (2020 Annual Report to DDW). The proposed subdivision is not anticipated to have adverse impacts on the shared water supply source because the 2020 UWMP water demand projections have accounted for future increases in potable and recycled water use by industrial uses, in addition to other uses.

For each acre of agricultural land that converts to urban use, the initial Safe Yield of the appropriative pool member serving the converted land is increased by 2 acre-feet. In addition, properties that were on private wells are expected to connect to OMUC infrastructure. Therefore, OMUC's share of the Safe Yield will continue to increase as Ontario Ranch develops, concurrent with a decline in private wells in the Chino Basin.

1.7 Priority to Proposed Lower Income Housing Projects

Pursuant to Gov. Code section 65589.7, the determinations made by the WV shall be consistent with the obligation of a public water system to grant a priority for the provision of available and future water resources or services to proposed housing developments that help meet the City's (or County's) share of the regional housing needs for lower income households.

The 2020 UWMP states that the City has considered the demographic factors of severely low-income earners, single-parent families, large families, seniors, people with disabilities, and homeless persons "which can affect the City's water management planning" (p. 3-7). Further, the 2020 UWMP indicates that lower income residential demands are included in water use projections (*ibid,* p. 4-12).

The following excerpt from the *Draft Euclid Mixed Use Specific Plan* section about Consistency with the Ontario Plan that describes the Project's consistency with applicable goals and policies from the City General Plan Housing Element (p. 7-7):

GOAL H-5:
A full range of housing types and community services that meet the special housing needs for all individuals and families in Ontario, regardless of income level, age, or other status.

Policy H-5.2 Family Housing

We support the development of larger rental apartments that are appropriate for families with children, including, as feasible, the provision of services, recreation, and other amenities.

The Euclid Mixed Use Specific Plan allows for the development of up to 466 high density attached residential units that are suited for a range of future buyers or renters including families with children.

Future residential development will be required to provide parks at a minimum of 2 acres/1000 residents. The Specific Plan also includes multi-purpose trails along Euclid and Schaefer Avenues and public accessible sidewalks along Euclid, Schaefer and Sultana Avenues and Ontario Ranch Road.

Excerpt from Euclid Mixed Use Specific Plan (pp. 7-7, 7-8)

Policy CE-1.6 Diversity of Housing

We collaborate with residents, housing providers, and the development community to provide housing opportunities for every stage of life; we plan for a variety of housing types and price points to encourage the development of housing supportive of our efforts to attract business in growing sectors of the community while being respectful of existing viable uses.

The Euclid Mixed Use Specific Plan allows for the development of up to 466 high density attached residential units within the Mixed Use District. This will add to the housing diversity and choices for ownership or rental housing within the Ontario Ranch to accommodate people who live and/or work in the City.

Excerpt from Euclid Mixed Use Specific Plan (pp. 7-13)

1.8 Verification That Relies on Groundwater

Law

Gov. Code Sec. 66473.7 (h)

> *Where a water supply for a proposed subdivision includes groundwater, the public water system serving the proposed subdivision shall evaluate, based on substantial evidence, the extent to which it or the landowner has the right to extract the additional groundwater needed to supply the proposed subdivision. Nothing in this subdivision is intended to modify state law with regard to groundwater rights.*

Section 4 of the attached WSA describes OMUC's legal right to extract groundwater from the Chino Basin.

1.9 Finding of Sufficient Water Supply

The estimated potable water demand for the proposed Project is 205 AFY and the recycled water demand is 135 AFY for a total demand of 340 AFY. As depicted in Table 3-2 and Table 3-3 of the attached WSA, the City's current (CY 21/22) and ultimate total water supply (43,264 AFY in FY and 73,668 AFY in 2045, respectively) are sufficient to meet the existing and anticipated water demands from its service area including the proposed Project's potable and recycled water demands. Furthermore, the Project will bring 2.0 acre-feet per acre of additional groundwater rights to the City as a result of the land use conversion (i.e., 168.2 AFY). Based on the analysis herein and the attached WSA, OMUC finds that "sufficient water supply" is available to support the projected subdivisions within the Euclid Mixed Use Specific Plan area as it is currently described herein.

References

AKM 2020	AKM Consulting Engineers, *City of Ontario 2020 Water Master Plan Update.* June 2020. (WSA Appendix B)
CBWM	Chino Basin Watermaster. *Approved 2022/2023 Assessment Package for Production Year 2021-2022*. November 17, 2022.
Judgment	Judgment, Chino Basin Municipal Water District v. City of Chino, et al., San Bernardino Ct. No. 164327 (filed Jan. 30, 1978). Includes amendments thereto. (WSA Appendix M)
EMUSP	City of Ontario. Draft Euclid Mixed Use Specific Plan, December 2021.
UWMP	Stetson Engineers. *City of Ontario 2020 Urban Water Management Plan*. June 2021. (WSA Appendix A)
WSA	Albert A. Webb Associates. *Water Supply Assessment for Euclid Mixed Use Specific Plan. April* 2023.